



***2025***

**PERFORMANCE PARTS & EQUIPMENT**  
**RACING • HOT ROD • STREET • OFF-ROAD**



# Scott Bloomquist

To say Scott Bloomquist was a great driver would be an understatement. His career as one of the best late model drivers in history spanned decades and made him a legend both on and off the track.

Scott partnered with Allstar Performance throughout his racing and car building career. He counted on our products to help him earn his wins both on the track and in the shop.

We dedicate this Allstar catalog to the enduring memory of Scott Bloomquist.



[www.allstarperformance.com](http://www.allstarperformance.com)





# CONTENTS

<b>New Products</b>	<b>2-5</b>	<b>Hubs, Bearings, &amp; Seals</b>	<b>131-132</b>
<b>Air Cleaners &amp; Accessories</b>	<b>6-8</b>	<b>Rear Ends &amp; Axles</b>	<b>133-143</b>
<b>Body</b>	<b>9-17</b>	<b>Safety/Driver Equipment</b>	<b>144-153</b>
<b>Brake</b>	<b>18-25</b>	<b>Sprint Car Components</b>	<b>154-163</b>
<b>Bumpers &amp; Noses</b>	<b>26-30</b>	<b>Steering</b>	<b>164-172</b>
<b>Chassis</b>	<b>31-46</b>	<b>Suspension</b>	<b>173-203</b>
<b>Chemicals</b>	<b>47-49</b>	<b>Tools &amp; Pit Equipment</b>	<b>204-235</b>
<b>Cooling</b>	<b>50-59</b>	<b>Transmission Components</b>	<b>236-239</b>
<b>Electrical, Gauges, &amp; Ignition</b>	<b>60-75</b>	<b>Wheel &amp; Tire Accessories</b>	<b>240-247</b>
<b>Engine</b>	<b>76-89</b>	<b>Apparel &amp; Display Material</b>	<b>248-250</b>
<b>Fasteners</b>	<b>90-105</b>	<b>Numerical Index</b>	<b>251-269</b>
<b>Fittings &amp; Hoses</b>	<b>106-121</b>	<b>Product Index</b>	<b>270-277</b>
<b>Fuel System Components</b>	<b>122-130</b>	<b>Terms &amp; Conditions</b>	<b>280</b>





**Steel Spoiler/Body Brace**

**ALL23019**

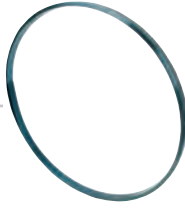


Page 12

**150 Foot Roll of Spring Steel**

**ALL23110-150**

Page 12



**Aluminum Hood Pin Kits with 1/2" Pins and 3/16" Flip-Over Clips**

**ALL18496-ALL18497**

Page 14



**Slotted Flat Tabs for Body Braces**

**ALL60088**

Page 39



**Battery Box Ballast**

**ALL14208**

Page 46



**Dual Pass Radiators with 1/4" NPT Bung**

**ALL30333-ALL30347**

Page 50



**Lightweight Dual Pass Single Row Radiators**

**ALL30343-ALL30347**

Page 50



**O-Ring Water Necks**

**ALL30376-ALL30377**

Page 57



**Low Profile Water Necks**

**ALL30380-ALL30382**

Page 57



**1/16" Heat Shrink Tubing**

**ALL76161**

Page 63



**BB Chevy Timing Cover (GEN IV)**

**BB Chevy Timing Cover (GEN IV)**

**ALL90011**

Page 80



**Adjustable Timing Pointer for SB Chevy 6-1/8" Dia Balancers**

**ALL90033**

Page 81



**Gaffers Tape**

**ALL14265-ALL14268**

Page 92



NEW PRODUCTS





**Coated Braided Lines with 1/8" NPT and Straight Steel Ends**

**ALL48435-18 - ALL48445-48**

Page 113



**Aeromotive Fuel Pressure Regulator Bracket for Dirt Late Models**

**ALL54298**

Page 122



**Single-Layer Non-SFI Outseam Driving Gloves**



Orange

**ALL913041- ALL913045**

Yellow

**ALL913091- ALL913095**

Page 145

**36" Long Aluminum Throttle Linkage with Return Spring Kit**

**ALL54178-ALL54179**

Page 128



**Double-Layer SFI 3.3/5 Outseam Driving Gloves**



Orange

**ALL916041 - ALL916045**

Yellow

**ALL91609 - ALL916095**

Page 145

**Heavy Wall 5/8" Steel Axle Tubes**

**ALL68262-24**

**ALL68262-26**

Page 136

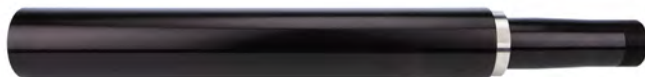


**1-Ton Wide 5 Aluminum Axle Tubes**

**ALL68215-26**

**ALL68215-30**

Page 136



**Pro-Series Mid-Top SFI 3.3/5 Driving Shoes**

Black

**ALL918122 - ALL918134**

Black/Blue

**ALL918222 - ALL918234**

Black/Red

**ALL918722 - ALL918734**

Page 146



NEW PRODUCTS



**SFI 3.3  
Underwear Tops**  
**ALL926110-ALL926119**

Page 146



**Camera Mount**  
**ALL10446**

Page 150



**SFI 3.3  
Underwear Bottoms**  
**ALL926210-ALL926219**

Page 146



**3-Pack Box of Roll Bar  
Padding**

**ALL14100-3-ALL14106-3**

Page 152



**Thicker Flame  
Retardant  
SFI Driving Socks**  
**ALL926411- ALL926415**

Page 146



**Non-SFI Ribbon Style  
Window Nets**

**ALL10283-ALL10293**

Page 153



**Arm Restraints**  
**ALL991212-  
ALL991312**

Page 147



**Build your own Take  
Apart Ball Joints**

**ALL56900-ALL56985**

Page 175



**Steering Wheel Hook**  
**ALL10227**

Page 150



**Precision Lower Control Arm Kits**

**ALL57806-  
ALL57809**

Page 179



NEW PRODUCTS



### Threaded Bump Washers

[ALL64290-ALL64293](#)

Page 184



### Bump Washer Dividers

[ALL64296-ALL64297](#)

Page 184



### Graphic Trim Tool

[ALL23101](#)

Page 204



### SB Chevy Folding Engine Cradle

[ALL10133](#)

Page 211



### GM LS Economy Engine Cradle

[ALL10173](#)

Page 211



### Utility Jug Filler Hose

[ALL40128](#)

Page 215



### 11" Tall Stack Stands

[ALL10253](#)

Page 223



### Nitrogen Air Tanks and Accessories

[ALL10630](#)

Page 224



### New Styles! Aluminum Wheel Covers for Weld and Bassett Beadlock Wheels

[ALL44140-ALL44145](#)

Page 241



### SB Chevy Steel Bellhousing

[ALL26890](#)

Page 238



### New Sizes! Tire Covers

[ALL44256-](#)

[ALL44257](#)

Page 245



### Stainless Steel Inner Mud Shield for 4" Backspace Wheel

[ALL44272](#)

Page 241



NEW PRODUCTS





## Lightweight 14" Aluminum Air Cleaner Kits

Race and dyno proven air cleaners feature a low-profile and free-flowing design that creates more power over standard flat air cleaner assemblies. Kits include a high-flowing dropped base with matching lid and a Sure Seal spacer with an integrated O-ring for a positive seal on carburetors with a 5-1/8" neck.

### Kits without Element

These kits are sold without filters. Select plain or black coated finish and the correct height Sure Seal spacer.



Description	Plain Finish	Black Finish
Kit with 1/2" Sure Seal Spacer	<b>ALL25900</b>	<b>ALL25901</b>
Kit with 1" Sure Seal Spacer	<b>ALL25902</b>	<b>ALL25903</b>
Kit with 1-1/2" Sure Seal Spacer	<b>ALL25904</b>	<b>ALL25905</b>
Kit with 2" Sure Seal Spacer	<b>ALL25906</b>	<b>ALL25907</b>

### Kits with Paper Element

Kits include a paper element filter in choice of 3", 3-1/2", 4", or 5" height and a 1" sure seal spacer. Choose from plain or black coated finish lid and base.



Description	Plain Finish	Black Finish
Kit with 3" Paper Element	<b>ALL25910</b>	<b>ALL25911</b>
Kit with 3-1/2" Paper Element	<b>ALL25912</b>	<b>ALL25913</b>
Kit with 4" Paper Element	<b>ALL25914</b>	<b>ALL25915</b>
Kit with 5" Paper Element	<b>ALL25916</b>	<b>ALL25917</b>

### Kits with Washable Element

Kits include a pre-oiled washable element filter in choice of 3", 4", 5", or 6" height and a 1" Sure Seal spacer. Choose from plain or black coated finish lid and base.



Description	Plain Finish	Black Finish
Kit with 3" Washable Element	<b>ALL25920</b>	<b>ALL25921</b>
Kit with 4" Washable Element	<b>ALL25922</b>	<b>ALL25923</b>
Kit with 5" Washable Element	<b>ALL25924</b>	<b>ALL25925</b>
Kit with 6" Washable Element	<b>ALL25926</b>	<b>ALL25927</b>

### Individual Components

- ALL25940** .... 14" Top Plain
- ALL25941** .... 14" Bottom Plain
- ALL25942** .... 14" Top Black
- ALL25943** .... 14" Bottom Black
- ALL25944** .... 1/2" Sure Seal Spacer (places air cleaner base 1-1/8" below carb neck sealing angle)
- ALL25945** .... 1" Sure Seal Spacer (places air cleaner base 5/8" below carb neck sealing angle)
- ALL25946** .... 1-1/2" Sure Seal Spacer (places air cleaner base 1/8" below carb neck sealing angle)
- ALL25947** .... 2" Sure Seal Spacer (places air cleaner base 3/8" above carb neck sealing angle)



## 14" Aluminum Air Cleaner Kits

Low-profile, spun aluminum air cleaner kits have a plain or black finished lid, a base for carburetors with 5-1/8" necks and O-ring spacers for a positive seal. Elements sold separately.



ALL26094

- ALL26094** .... Plain Kit with 1/2" Spacer
- ALL26097** .... Black Kit with 1/2" Spacer
- ALL26095** .... Plain Offset Base Kit with 1/2" Spacer
- ALL26098** .... Plain Kit with 1" Spacer
- ALL26099** .... Black Kit with 1" Spacer

### Individual Components

- ALL26090** .... Plain Top
- ALL26088** .... Black Top
- ALL26092** .... Standard Base
- ALL26091** .... Offset Base
- ALL26085** .... 1/2" Spacer (places base 1-3/8" below carb neck sealing angle)
- ALL26086** .... 1" Spacer (places base 7/8" below carb neck sealing angle)
- ALL26087** .... 1-1/2" Spacer (places base 3/8" below carb neck sealing angle)
- ALL25947** .... 2" Spacer (places base 1/8" above carb neck sealing angle)
- ALL26084** .... Spacer O-ring

### Offset Air Cleaner Base

#### ALL26091

14" base is offset 1" and commonly used for extra distributor clearance. Offset base has a 1-1/2" drop and will fit carburetors with a 5-1/8" neck including Q-Jets, Holley 2bbl. and Edelbrock carburetors without choke. Base will not work with Holley 4bbl. carburetors. Offset air cleaner stud ALL26057 is required.



### 2BBL. Air Cleaner Base

#### ALL26081

Aluminum air cleaner base has 14" overall diameter. 5/8" drop, plain finish. 3" diameter carburetor angle.



### Air Filter Sealing Foam

#### ALL26106

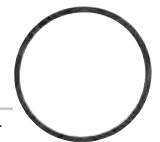
Soft neoprene foam material used for adding an extra seal between the air filter and the lid and base of an air cleaner assembly. Material features a self-adhesive glue on one side to keep seal in place. Material measures 1" wide x 1/4" thick and is 12 ft long.



### Air Cleaner Gasket

#### ALL87207

OE style composite gasket fits most popular carburetors with 5-1/8" neck. Gasket seals air cleaner base to carburetor neck helping prevent dirt and moisture from entering carburetors.







## 14" Flat Base Air Cleaner Kits

Lightweight spun aluminum air cleaner kits have a flat base to increase airflow. Kits include a lid, base and a 1/2" spacer with a built-in O-ring for a positive seal. Popular in crate engine classes when every horsepower counts! Elements sold separately.



**ALL25950**.....Plain Air Cleaner Kit  
**ALL25951**.....Black Air Cleaner Kit

### Individual Components

**ALL25954** .... Plain Top  
**ALL25955** .... Plain Base  
**ALL25956** .... Black Top  
**ALL25957** .... Black Base  
**ALL25944** .... 1/2" Spacer with O-Ring

## Air Pans

Lightweight aluminum air pans sit between the carburetor and cowl area to keep engine heat away from and direct cool air to the carburetor. Cooler intake air means extra horsepower. Carb mounting angle is uncut.



**ALL26100** .... Stepped Plenum  
**ALL26101**..... Flat Plenum

## Universal Plastic Air Pan

**ALL26104**

Durable plastic pan fits over the base of most 14" air cleaners and acts as a cold air box sealing off the air cleaner assembly from the engine heat.

Universal fit pan is designed for vehicles with air cleaner openings in the hood and will require additional trimming and sealing for a proper fit. Pan measures 18" x 4" and includes a silicone air cleaner base seal.



## Air Cleaner Nuts

Machined aluminum hold-down nut features an O-ring sealed base to help prevent water and dirt from entering the top of most air cleaner lids and a knurled surface for easy removal and installation without tools.



### Short Nut - 5/8" Tall

**ALL26045** ... 1/4"-20 Thread  
**ALL26047** ... 5/16"-18 Thread

### Tall Nut - 1-1/4" Tall

**ALL26046** ... 1/4"-20 Thread  
**ALL26048** ... 5/16"-18 Thread

## Air Cleaner Stud Kit

Kit includes all components needed to attach an air cleaner assembly onto a carburetor including a 6" long 5/16"-18 threaded stud, an adjustable threaded stop and an air cleaner nut with a O-ring seal. The adjustable threaded stop allows the air cleaner lid to be secured against the stop without crushing the air filter.



Note: Designed for use on carburetors with 5/16"-18 air cleaner stud mounting bosses.

**ALL26014**.....Kit with Aluminum Stud  
**ALL26015**.....Kit with Chrome Moly Stud

## Air Cleaner Studs

Air cleaner studs feature 5/16"-18 threads with a machined hex base for tightening into carburetor to eliminate a separate jam nut.

**ALL26054** .... Aluminum Stud 6"  
**ALL26055** .... Chrome Moly Stud 6"  
**ALL26077** .... Chrome Moly Stud 8"

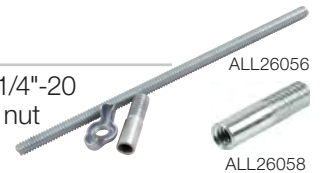


Note: Designed for use on carburetors with 5/16"-18 air cleaner stud mounting bosses.

## Air Cleaner Studs

Straight stud is 6" long with 1/4"-20 threads and includes a wing nut and an adapter for carburetors with 5/16"-18 threads.

**ALL26056**.....Straight Stud with Adapter  
**ALL26058**.....Adapter, 1/4" -20 to 5/16"-18



## Offset Air Cleaner Studs

Offset studs work with offset air cleaner bases and some 2bbl carburetors that require offset studs. Studs include mounting hardware and have a 1-3/8" offset.

**ALL26057** .... 1/4"-20 (6" O.A.L.)  
**ALL26053** .... 5/16"-18 (5-3/4" O.A.L.)  
**ALL26058** .... Adapter, 1/4" to 5/16"





## Paper Air Filter Elements

High-performance paper air filter elements increase air flow.



ALL26020



ALL26022



ALL26023



ALL26029

- ALL26020** .... 14" x 3"
- ALL26021** .... 14" x 3-1/2"
- ALL26022** .... 14" x 4"
- ALL26023** .... 14" x 5"
- ALL26028** .... 16" x 3"
- ALL26029** .... 16" x 3-1/2"
- ALL26030** .... 16" x 4"

## Washable Air Filter Elements

Washable air filter elements offer better engine protection and increase air flow for more power and torque. Elements are pre-oiled and available in four heights.



ALL26000



ALL26002



ALL26004



ALL26006

- ALL26000** .... 14" x 3"
- ALL26002** .... 14" x 4"
- ALL26004** .... 14" x 5"
- ALL26006** .... 14" x 6"

## Air Cleaner Top Element

### ALL26010

Unique 14" diameter element replaces traditional metal lid to increase air flow for more horsepower and torque. Washable element may be cleaned and used over and over. Top element is pre-oiled and ready for installation.



## Air Cleaner Filters

Mesh filters fit over an air cleaner assembly adding another layer of protection against dirt, dust and debris. Filters fit Allstar paper and washable 14" air cleaners, and will not fit oversized units like R2C.



ALL26221



ALL26224

### Filters without Top Cover

- ALL26220** .... 14" x 3"
- ALL26221** .... 14" x 4"
- ALL26222** .... 14" x 5"

### Filters with Top Cover

- ALL26224** .... 14" x 4"
- ALL26225** .... 14" x 5"

## Air Cleaner Cover

### ALL26230

Water-repellent covers 14" diameter air cleaner assemblies from 3" to 6" tall. Perfect for washing or storage and includes a draw string.



## Carb Hats

Carburetor hats are ideal to cover open carbs and prevent debris from falling into the engine while working in garage or pit area with air cleaner removed. 2-1/2" tall carb hats are designed to fit most carbs or throttle bodies with a 5-1/8" diameter neck.



ALL26040



ALL26042



ALL26043



ALL26044

- ALL26040** .... Plastic
- ALL26042** .... Plastic with Screen
- ALL26043** .... Aluminum
- ALL26044** .... Aluminum, with Sealing O-Ring

Note: Hats will not clear choke linkage or shaft on Holley style carbs but will clear choke horn with choke linkage and shaft removed.

## Dominator Carb Hat

### ALL26041

Plastic carb hat is 2-3/8" tall and fits over the 7-1/4" air cleaner opening of Holley Dominator carburetors to prevent water or debris from entering the engine. Solid cover may be drilled when an air cleaner stud is used.





## Aluminum Sheets



Aluminum sheets are .040" thick and available in most popular colors. Sheets with single-sided colors have a white painted backside and all sheets have a removable protective film on one side to resist scratches.

**Sheet product available for Pickup or Truck Freight. MOQ and pallet fees apply for truck orders. Call for details**

### 4' x 10' (120")

- ALL22200** .... Plain†
- ALL22230** .... Satin ††
- ALL22201** .... Chrome on Chrome (Bright Clear)§
- ALL22202** .... White
- ALL22203** .... Xtreme Red
- ALL22204** .... Red
- ALL22209** .... Red on Red
- ALL22206** .... Gloss Black
- ALL22207** .... Black on Black, Gloss
- ALL22208** .... Flat Black
- ALL22219** .... Black on Black, Flat
- ALL22210** .... Shell Gray (Medium)
- ALL22211** .... Xtreme Green
- ALL22212** .... Pepsi Blue (Light)
- ALL22213** .... Chevron Blue (Medium)
- ALL22205** .... Chevron Blue on Chevron Blue (Medium)
- ALL22214** .... Heron Blue (Dark)
- ALL22215** .... Orange
- ALL22244** .... Vibrant Orange
- ALL22216** .... Yellow
- ALL22218** .... Yellow on Yellow
- ALL22217** .... Xtreme Purple
- ALL22245** .... Silver Metallic

### 4' x 10'-6" (126")

- ALL22480** .... White on White
- ALL22482** .... Black on Black, Gloss
- ALL22488** .... Black on Black, Flat
- ALL22484** .... Red on Red
- ALL22486** .... Chevron Blue on Chevron Blue (Medium)

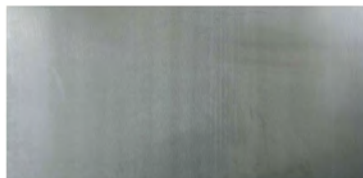
†Plain finish on both sides

††Satin on both sides

§Bright clear on both sides (side with protective film has chrome appearance)

## Aluminum Panels

Universal panels have many uses around the shop or at the track. Panels work well when fabricating spoiler sides, interior panels or on uneven pit areas as a floor jack plate. 24" x 48".



- ALL22236** .... 0.063" Thick
- ALL22237** .... 0.090" Thick
- ALL22238** .... 0.125" Thick

## Painted Sheet Steel

### ALL22243

White painted 24-gauge (.024") steel is lightweight and perfect for building interiors in racing classes that require steel panels or when filling holes in rewalls or floor pans. 4' x 10' sheet is painted on both sides and one side has a removable protective film to help prevent scratches during handling.



### Plain Sheet Steel

Sheet steel is cold rolled with a plain finish making it great for metal fabrication and restoration projects. Sheet steel has many uses including constructing or repairing body panels and filling holes in rewalls or floor pans. Sheets are 4' x 8'.



### ALL22234 .... 18 Gauge (.048")

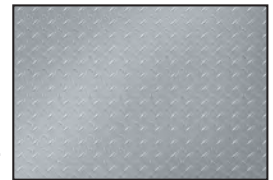
### ALL22233 .... 20 Gauge (.036")

### ALL22242 .... 24 Gauge (.024")

## Diamond Plate

### Aluminum ALL22240

4' x 8' sheets are .063" thick and provide an attractive, shiny, non-slip finish for trailer floors, steps, etc.



**Sheet product available for Pickup or Truck Freight. MOQ and pallet fees apply for truck orders. Call for details**

## Graphic Trim Tool

**NEW**

### ALL23101

Unique tool allows you to easily trim your graphics around wheel openings and other body panel edges. Adjustable width allows you to choose how far you want your material from the edge and the adjustable head gives you a wide range of options in tight or open areas.



## Deburring Tool ALL11036

A fast and easy way to remove burrs from the edges of machined or cut metals. Five-piece kit includes handle, telescopic blade holder and three unique blades. Handle has built-in storage for blades. Blade holder adjusts from 1" to 5".



## Cleco Pin Fastener Kits

Cleco pins are reusable and easily make a temporary connection between pieces of sheet metal during fitting. Pins will work with thicknesses up to 1/4". Kits include pliers and 10 pins.



### ALL18221 ..... Kit with 1/8" Pins

### ALL18225 ..... Kit with 3/16" Pins



## Sheet Plastic



HDPE sheet plastic is 4' x 8' and available in two thicknesses .070" and .100". The .070" thick sheets are the same thickness as our rolled plastic and available in black and white. The .100" thick sheets are available in many of the same colors as our rolled plastic.

- ALL22246** .... 0.070", White
- ALL22248** .... 0.070", Black
- ALL22460** .... 0.100", White
- ALL22461** .... 0.100", Black
- ALL22462** .... 0.100", Red
- ALL22464** .... 0.100", Chevron Blue (Med.)
- ALL22465** .... 0.100", Orange
- ALL22466** .... 0.100", Yellow

## 3/16" Sheet Plastic

3/16" thick HDPE sheet plastic is sold in 4' x 8' sheets and commonly used to build door and quarter panels along with many other uses.



- ALL22470** .... White
- ALL22471** .... Black

## 1/4" Sheet Plastic

Plastic material is 1/4" thick and useful for many projects including building custom nose supports or front splitters.



- ALL22231** .... 15" x 48"
- ALL22232** .... 30" x 48"

## Polycarbonate Sheeting



**Scratch Proof** – Material does not scratch easily when hit by debris, or when cleaned. Most popular for windshields, but also may be used for side and rear windows.

**Standard** – Less expensive, commonly used for side and rear windows. Can also be used for windshields, but scratches easily.

- ALL22220** .... 36" x 72", 0.118" Scratch Proof, 2-Sides
- ALL22223** .... 40" x 72", 0.118" Scratch Proof, 2-Sides
- ALL22222** .... 72" x 96", 0.118" Scratch Proof, 2-Sides\*
- ALL22228** .... 40" x 72", 0.093" Standard
- ALL22224** .... 40" x 72", 0.118" Standard
- ALL22226** .... 72" x 96", 0.118" Standard\*

\*Must ship via Truck Freight

## Rolled Plastic

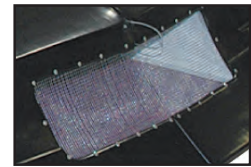
HDPE rolled plastic is 24" wide by .070" thick commonly used for spoilers, skirts, body patchwork, etc. Sold in pre-cut lengths (10', 25', and 50').



Color	10' Roll	25' Roll	50' Roll
Black	<b>ALL22400</b>	<b>ALL22401</b>	<b>ALL22402</b>
White	<b>ALL22405</b>	<b>ALL22406</b>	<b>ALL22407</b>
Red	<b>ALL22410</b>	<b>ALL22411</b>	<b>ALL22412</b>
Orange	<b>ALL22420</b>	<b>ALL22421</b>	<b>ALL22422</b>
Yellow	<b>ALL22425</b>	<b>ALL22426</b>	<b>ALL22427</b>
Purple	<b>ALL22430</b>	<b>ALL22431</b>	<b>ALL22432</b>
Chevron Blue (Med.)	<b>ALL22440</b>	<b>ALL22441</b>	<b>ALL22442</b>

## Stainless Wire Screen

Use screen to protect radiators, oil coolers or other items. Size referenced is the approximate opening of the screen.



### 5/64" (.025" Wire Diameter)

- ALL22260** .... 12" x 36"
- ALL22262** .... 36" x 36"

5/64"



### 1/8" (.035" Wire Diameter)

- ALL22265** .... 12" x 36"
- ALL22267** .... 36" x 36"
- ALL22268** .... 36" x 48"

1/8"



### 3/16" (.047" Wire Diameter)

- ALL22270** .... 12" x 36"
- ALL22272** .... 36" x 36"
- ALL22273** .... 36" x 48"

3/16"



## Steel Wire Screen

Electrically welded steel screen is used for a variety of applications when additional protection is needed. Screen is 2' x 2', constructed of .080" diameter wire and galvanized for corrosion resistance.

- ALL22276** .... 1" x 1"
- ALL22277** .... 1" x 2"



## Sharpie Markers



Fine-point permanent markers work great for many uses around the shop or track which includes layout and fabricating, marking tire sizes, gear set ratios, jet sizes, etc. Sold each.

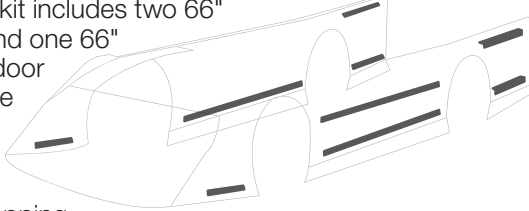
- ALL12072** ..... Black
- ALL12073** ..... Silver



## Late Model Body Brace Kits



Pre-drilled aluminum kits simplify installation of body panels. Both kits include the following braces: two 30" long 120° lower quarter, two 26" long 90° upper quarter and two 10" long 90° front fender. ALL23105 kit also includes three 66" long 90° door braces, where the ALL23107 kit includes two 66" long 90° and one 66" long 120° door braces. Use at stock, spring steel, or slotted strapping to complete assembly (sold separately).

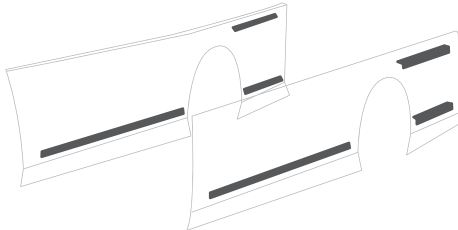


- ALL23105**..... Body Brace Kit
- ALL23107**..... Body Brace Kit

## Modified Body Brace Kit ALL23106



Pre-drilled aluminum kit simplifies installation of body panels. Two 66" long 90° door braces, two 30" long 120° lower quarter and two 26" long 90° upper quarter pieces are included. Use at stock, spring steel, or slotted strapping to complete assembly (sold separately).



## Body Support Panel

**ALL23068**

Lightweight aluminum panel features punch/are holes and 90° angles to easily connect body braces. Commonly used on template body asphalt car rear quarter panels yet universal enough for use in other locations. 4.5" tall x 30" long with 1" angles. Sold each.



## Reinforced Aluminum Angle, 120°

Aluminum angle has many uses including strengthening body panels and providing a mounting point for strapping or body braces, typically used on the lower section of rear quarter panels and doors. The reinforced design adds additional strength over standard 120° angle with an extra bend which also allows easier access to body brace bolts. Angle allows supports or braces to angle upward toward the chassis. Angle is 1/8" thick x 1-1/2" wide and has pre-drilled 1/4" holes on 1" centers.

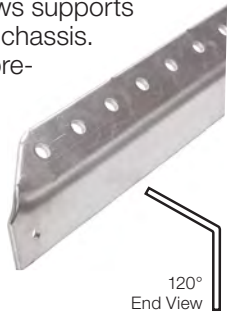
- ALL23140**..... 26" Long
- ALL23140-5**..... 26" Long, 5-Pack
- ALL23141**..... 30" Long
- ALL23141-5**..... 30" Long, 5-Pack
- ALL23142**..... 66" Long
- ALL23142-5**..... 66" Long, 5-Pack



## Aluminum Angle, 120°

Aluminum angle has many uses including strengthening body panels and providing a mounting point for strapping or body braces, typically used on the lower section of rear quarter panels. 120° angle allows supports or braces to angle upward toward the chassis. Angle is 1/8" thick x 1" wide and has pre-drilled 1/4" holes on 1" centers.

- ALL23130**..... 26" Long
- ALL23130-5**..... 26" Long, 5-Pack
- ALL23131**..... 30" Long
- ALL23131-5**..... 30" Long, 5-Pack
- ALL23132**..... 66" Long
- ALL23132-5**..... 66" Long, 5-Pack



## Aluminum Angle, 90°

Aluminum angle has many uses including strengthening body panels and providing a mounting point for strapping or body braces, typically used on the upper section of rear quarter panels and door panels. 90° angle allows supports or braces to fasten directly to the chassis. Angle is 1/8" thick x 1" wide and has pre-drilled 1/4" holes on 1" centers.

- ALL23134**..... 26" Long
- ALL23134-5**..... 26" Long, 5-Pack
- ALL23135**..... 30" Long
- ALL23135-5**..... 30" Long, 5-Pack
- ALL23138**..... 66" Long
- ALL23138-5**..... 66" Long, 5-Pack



## Slotted Aluminum Angle, 90°

**ALL23124**

Slotted angle aluminum brace connects and strengthens body panels. Brace is 1/8" thick x 1" wide x 72" long with 3/8" x 5/8" slots. Ideal for use along tops of spoilers.





## Flexible Body Brace Kit



Flexible brace attaches to body or nose panels allowing them to bend then return to original shape, minimizing panel damage. Kit includes all components to build or assemble a flexible body brace up to 33" long with 1/4" ends that crimp to flexible rod with a standard impact crimper (ALL76135) or by using a hammer and punch.

- ALL23080** .... Body Brace Kit
- ALL23080-4** Body Brace Kit 4-Pack

## Flexible Body Brace



Flexible brace made from plastic extends up to 31" and may be cut to shorter applications. Commonly used to support lower quarter panel or nose sides. Aluminum brackets are adjustable to accommodate a variety of straight and angle applications.

- ALL23075** .... Body Brace
- ALL23075-4**. Body Brace 4-Pack

## Spoiler/Body Brace



Solid body brace works well for securing panels or noses in position and features a tension bolt to adjust brace to desired length. Brace is painted black, has pre-drilled 3/16" mounting holes on each end and commonly cut-to-length.

- ALL23020** ... Steel, Long Body (Adjusts up to 27")
- ALL23019** ... Steel, Short Body (Adjusts up to 26") **NEW**
- ALL23021** ... Aluminum, Short Body (Adjusts up to 26")

## Body Brace Tabs

Mild steel tabs typically weld to chassis and provide a mounting point for body braces or mounting straps. Package of four.

Part No.	Description	Thickness	Overall Height	Center Of Hole Height	Hole Dia.
<b>ALL60014</b>	Round Tube, 1/4" Hole	1/8"	1-1/2"	1"	1/4"
<b>ALL60015</b>	Round Tube, Slotted	1/8"	1-1/2"	7/8"	1/4" x 3/4"
<b>ALL60016</b>	Round Tube, 3/8" Hole	1/8"	1-3/4"	1-1/4"	3/8"
<b>ALL60041</b>	Round Tube, 1/4" Hole	1/8"	1-3/4"	1-1/4"	1/4"
<b>ALL60086</b>	Round Tube, 1/4" Hole	.085"	1-7/16"	1-15/16"	1/4"
<b>ALL60087</b>	Round Tube, 1/4" Hole	1/8"	1-7/16"	1-15/16"	1/4"
<b>ALL60088</b> <b>NEW</b>	Flat Tab Slotted	1/8"	1-7/16"	7/8"	1/4" x 1/2"
<b>ALL60024</b>	Flat Mount, 3/8" Hole	.085"	1-9/16"	7/8"	3/8"
<b>ALL60027</b>	Flat Mount, 1/4" Hole	.085"	1-9/16"	7/8"	1/4"



See page 39 for additional tabs

## Spring Steel

Use to make braces when hanging body and fender pieces. Hardened and tempered coil is 1"W x .062" thick.

- ALL23110** ..... 40' Coil
- ALL23110-150**.. 150' Coil **NEW**

## Shrink Sleeve for Spring Steel

Shrink sleeve works great when doubling up 1" wide spring steel.

- ALL23112** ..... 25' Long Roll
- ALL23113** ..... 100' Long Roll

## Hammer Type

### Spring Steel Punch **ALL23116**

Hammer type punch places a 1/4" diameter hole 1/2" from the end of most 1" x .062" thick spring steel material.

Punch features a built-in stop which positions the material for accurate hole placement. Punch needs to be placed on a hard surface (i.e. concrete floor, steel anvil, etc.) and struck lightly with a 3 to 4 lb. hammer.

## Plastic Body Strap

Connect and support body panels to the chassis of most race cars. Durable plastic strap is easily drilled and cut to length, making it an excellent choice for body strapping. Strap is 48"L x 1"W.

- ALL23088** ..... Body Strap, Single
- ALL23088-4** ..... Body Strap, 4-Pack

## Slotted Body Strap **ALL23120**

Connect and support body panels on the chassis of most race cars. 3/16" thick x 46"L x 1"W aluminum strap has 1/4" slots every inch. Use with ALL23105 body brace kit for complete body installation.

## Check Out Our Fasteners Section!

For more body related fasteners see pages 88-103





## Hood Scoops



Scoops are molded from durable high-impact plastic with carbon fiber look and have a molded-in angle for easy mounting. Designed for use with 14" air cleaners, scoops protect air cleaners that protrude through the hood from dirt and debris. All scoops surround approximately half of the air cleaner assembly.

Part No.	Description	Height	Center of A/C to Front of Scoop
ALL23230	Short Tapered Front	2-1/2"	12"
ALL23232	Short Tapered Front	3-1/2"	13"
ALL23246	Long Tapered Front	3-1/2"	17"
ALL23248	Long Tapered Front	5-1/2"	18"
ALL23249	Long Tapered Front*	5-1/2"	18"
ALL23233	Open Front	3-1/2"	12-1/2"
ALL23235	Flat Front	3-1/2"	15-1/2"
ALL23237	Flat Front	5-1/2"	18"

\*Mounting angle has a slight curvature for rolled hoods

## Aero Scoops

Aerodynamically designed fiberglass scoops are strong yet lightweight with a durable, black high-gloss, seamless gelcoat finish and a 2" wide mounting angle. Open back scoops have an angled 6" tall rear opening to fit most windshields.



Part No.	Description	Overall Height	Overall Length	Width w/o Flange
ALL23280	Open Back	13-1/2"	50"	14-1/2"
ALL23282	Open Back	13"	50"	14-1/2"
ALL23284	Closed Back	12"	38"	14-1/2"

## Dragster Scoops

Strong yet lightweight, fiberglass scoops have a durable, black high-gloss, seamless gelcoat finish. Complete installation on 4500 series carburetors requires a scoop tray mounting kit, which mounts between carb and intake manifold to secure ALL23288 scoop tray. Scoops are typically secured to tray with quick turn fasteners and hardware (sold separately).



Part No.	Overall Height	Overall Length	Width
ALL23270	16"	33"	14"
ALL23272	15-1/2"	25-1/2"	14"
ALL23274	20-1/2"	29-1/2"	14"

## Dragster Scoop Trays

Scoop tray is the lower portion of the scoop or plenum that directs air into the carburetor when used with dragster style scoops. Tray measures 21-5/8" L x 13-1/2" W and requires a separate scoop tray mount which supports the tray above the carburetor providing a secure mounting point for scoop.



### Flat Mount

**ALL23266** .... Aluminum Tray for 4150 Series Carb

**ALL23267** .... Aluminum Tray for 4500 Series Carb

### Raised - 3" Tall

**ALL23268** .... Aluminum Tray for 4150 Series Carb

**ALL23269** .... Aluminum Tray for 4500 Series Carb

**ALL23288** .... Fiberglass Tray for 4500 Series Carb

## Scoop Tray Mounts

Scoop tray mounts offer an all in one solution to mount a scoop tray, throttle, and nitrous solenoids. Mounts provide a clean look, eliminating the need to use multiple brackets, mounts and gaskets. CNC machined from 6061 aluminum, black anodized. Standard Mounts.



**ALL54302** .... 4150 (1.755" Bore)  
**ALL54304** .... 4500 (2.375" Bore)

## Dial-In Boards

Dial-in boards are a great alternative to messy shoe polish when displaying your ET dial-in. Highly visible



3" tall white numerals help to ensure correct times are entered at the tower. Each numeral has seven pivoting sections that are easily changed to quickly adjust dial-in time. Available with mounting holes for a standard dial-in board bracket or ALL23293 with suction cups and hook/loop tape.

**ALL23291** .... 3 Digit w/ Mount Holes

**ALL23292** .... 4 Digit w/ Mount Holes

**ALL23293** .... 4 Digit w/ Suction Cups and Hook/Loop Tape

## Dial-In Board Mount

**ALL23297**

Two-piece billet aluminum mounts dial-in boards with 8.75" x 3" mounting hole patterns. Top portion of bracket swivels to position board at the best viewing angle.



## Steel Hood Pin Kits with 1/2" Pins

Kits include two each: 4" long x 1/2" dia. chrome steel pins, chrome steel scuff plates, clips, and four steel jam nuts.

**ALL18512** ..... Kit with 3/16" Flip-Over Clips

**ALL18514** ..... Kit with 5/32" Hairpin Clips

**ALL18513** ..... Kit with 1/4" Flip-Over Clips

ALL18514



## Aluminum Hood Pin Kits with 1/2" Pins

Kits include two each: 4" x 1/2" dia. aluminum pins, aluminum scuff plates, flip over style, 1/4" dia. steel clips, and four steel jam nuts. Clip flips over pin and over-center action locks clip in place.

**Kits with 3/16" Flip-Over Clips** **NEW**

Color	Complete Kit	Pins Only, 1-Pair
Silver	<b>ALL18496</b>	<b>ALL18498</b>
Black	<b>ALL18497</b>	<b>ALL18499</b>

**Kits with 1/4" Flip-Over Clips**

Color	Complete Kit	Pins Only, 1-Pair
Silver	<b>ALL18500</b>	<b>ALL18507</b>
Red	<b>ALL18501</b>	<b>ALL18508</b>
Blue	<b>ALL18502</b>	<b>ALL18509</b>
Gold	<b>ALL18503</b>	<b>ALL18510</b>
Black	<b>ALL18504</b>	<b>ALL18511</b>



## Aluminum Hood Pin Kits with 3/8" Pins

Kits include two each: 3-1/2" x 3/8" dia. aluminum pins, aluminum scuff plates, 3/16" dia. steel flip over clips and four steel jam nuts. Clip flips over pin and over-center action locks clip in place.

Color	Complete Kit	Pins Only, 1-Pair
Silver	<b>ALL18480</b>	<b>ALL18487</b>
Red	<b>ALL18481</b>	<b>ALL18488</b>
Blue	<b>ALL18482</b>	<b>ALL18489</b>
Black	<b>ALL18484</b>	<b>ALL18491</b>



## Lightweight Aluminum Hood Pin Kits

Kits include two each: 2-3/4" long gun-drilled aluminum pins, lightweight aluminum scuff plates, 3/16" steel flip-over clips and four steel jam nuts. Clip flip over pin and over-center action locks clip in place

Color	Kit with 3/8" Pins	Kit with 1/2" Pins
Silver (Plain)	<b>ALL18472</b>	<b>ALL18476</b>
Black Anodized	<b>ALL18473</b>	<b>ALL18477</b>



## Hood Pin Supports

Supports thread onto hood pins (before installation) and are a good alternative to sections of rubber hose commonly used to support hoods and deck lids. Once supports are in place, a set screw prevents movement. Supports work with Allstar aluminum hood pins. Package of 2.

**ALL18478** ..... 3/8"-24

**ALL18479** ..... 1/2"-20



## Hood Pin Extensions

Aluminum extensions fit into existing chassis mounts. 1/2"-20 male to 1/2"-20 female, with 13/16" thread depth. Sold each.

**ALL18524** ..... 1-3/4" Tall

**ALL18525** ..... 2-3/4" Tall



## Hood Pin Adapters

Aluminum adapters convert existing chassis mounts over to hood pin mounts. Sold each.

**ALL18526** ..... 1/2" Hood Pin Mount to 3/8" Hood Pin, 1/2"-20 Male to 3/8"-24 Female

**ALL18527** ..... Converts 1/2" Coarse Mount to 1/2" Hood Pin, 1/2"-13 Male to 1/2"-20 Female



## Universal Hood Pin Mount

**ALL60067**

Universal bracket with 1/4" mounting holes can be bolted on or welded in place. Bracket accepts 1/2" hood pins to secure hood and deck lids along with many other uses. Constructed of .100" steel, bracket has a built-in reinforcing gusset for added strength.



## Hood Pin Mounts

Mounts ease hood pin installation. Choose from threaded boss or tab style.



Part No.	Description	Qty. Per Package
<b>ALL18521</b>	3/8"-24 Hood Pin Boss	2
<b>ALL18520</b>	1/2"-20 Hood Pin Boss	2
<b>ALL60005</b>	1/8" Mounting Tab with 1/2" Hole	4
<b>ALL60006</b>	3/16" Mounting Tab with 1/2" Hole	4



Jeremy Young



## Plastic Scuff Plates

Sturdy plastic scuff plates have a raised center for quick, easy removal of hood pin clips. Plates have a 1/2" center hole and four recessed rivet holes for simplified installation.



Color	4-Pack	25-Pack
Black	<b>ALL18430</b>	<b>ALL18430-25</b>
White	<b>ALL18431</b>	<b>ALL18431-25</b>
Red	<b>ALL18432</b>	<b>ALL18432-25</b>
Blue	<b>ALL18433</b>	<b>ALL18433-25</b>
Orange	<b>ALL18434</b>	<b>ALL18434-25</b>
Silver	<b>ALL18435</b>	<b>ALL18435-25</b>
Pink	<b>ALL18436</b>	<b>ALL18436-25</b>
Purple	<b>ALL18437</b>	<b>ALL18437-25</b>
Fluorescent Yellow	<b>ALL18438</b>	<b>ALL18438-25</b>
Fluorescent Orange	<b>ALL18439</b>	<b>ALL18439-25</b>

## Scuff Plates

Scuff plates are used to protect painted niches from repeated hood pin clip use. Plates are drilled for mounting screws or 1/8" diameter rivets. Package of 4.



ALL18517



ALL18471

Description	1/2" Hole	3/8" Hole
Chrome Steel	<b>ALL18517</b>	-
Aluminum	<b>ALL18518</b>	<b>ALL18519</b>
L/W Aluminum	<b>ALL18471</b>	<b>ALL18470</b>

## Hood Pin Clips

The same quick removal pins and clips included with Allstar's hood pin kits. Hair pin clip has a rotated loop for easy grasp and the flip-over clips have a loop with an over center locking feature to keep pin in place. Package of 2.



ALL18516



ALL18506

- ALL18516** ..... Hairpin Clip, 5/32"
- ALL18515** ..... Flip-Over Clip, 3/16"
- ALL18506** ..... Flip-Over Clip, 1/4"

## 3/16" Flip-Over Clip with Lanyard

Our most popular size flip-over clip commonly used with hood pins is now available with an added steel lanyard which fastens to body panel for easy installation, and to prevent lost clips. Sold each.

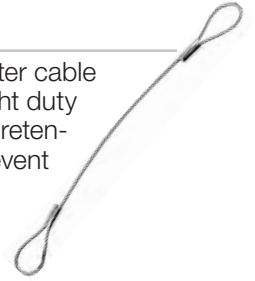


- ALL18460** ..... Clip With 6" Lanyard
- ALL18462** ..... Clip With 10" Lanyard

## Steel Lanyards

Steel lanyards feature 1/16" diameter cable with 3/4" loops on each end for light duty applications such as hood pins or retention of similar type fasteners to prevent loss. Sold each.

- ALL18461** ..... 6" Long
- ALL18463** ..... 10" Long



## Nylon Lanyards **ALL18468**

Nylon lanyards feature a molded end with a 3/16" hole on one end and a snap together open loop on the other end to quickly and easily secure a variety of components. Once snapped together, loop is permanently locked. 10" long, package of 4.



## Hinge Kits

Use steel hinge kits on hoods and deck lids for quick, one person inspection of engine compartment or trunk area. Universal kits include two complete hinges.



- ALL18522** ..... 2-1/4" Long, 5/8" Tall, 1/4" Hole
- ALL18523** ..... 3" Long, 1-1/4" Tall, 1/4" Hole

## Hood Prop **ALL23260**

Aluminum hood prop is a must for supporting lightweight aluminum and fiberglass hinged hoods or trunk lids commonly found on asphalt template body cars. Prop mounting hole distance is 17-1/4" when open. Sold each.



## Car Covers

Covers are constructed of a waterproof material and designed for a precise fit. The template body cover has zippers to access the interior and at the wheel well openings. The Dirt Late Model cover has zippers to access the engine and driver compartment. Full size covers have reflective silver finish to reflect heat, a soft cotton inner liner, built-in grommets and elastic banding. Not designed for outdoor storage.



ALL23302



ALL23306



ALL23301



ALL23305

- ALL23300** .... Template Body LM and Metric Street Stock
- ALL23301** .... Template Body Greenhouse Cover
- ALL23302** .... Dirt Late Model\*
- ALL23306** .... Modified (IMCA/Ump Type)
- ALL23304** ... Back Half Cover
- ALL23305** .... Mini Stock

\*Cover is designed for cars with 8" spoiler and sides.

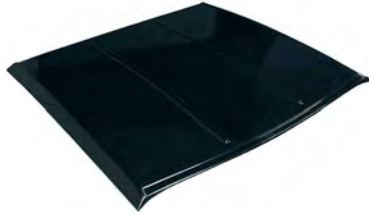


## Dirt Roofs

Popular fiberglass roofs found on many Dirt Late Model and Modifieds. 46"L x 47"W.

**ALL23180**..... White

**ALL23181**..... Black

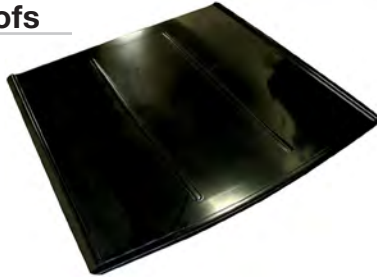


## Extended Dirt Roofs

Fiberglass roofs for Dirt Late Model and Modifieds are extended for maximum allowed coverage. 1/2" rolled side rails provide added strength. 54"L x 51"W.

**ALL23170**..... White

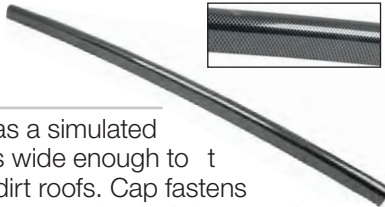
**ALL23171**..... Black



## Universal Dirt Roof Cap

**ALL23215**

Universal plastic cap has a simulated carbon fiber look and is wide enough to fit extended and 2-piece dirt roofs. Cap fastens to the leading edge of most roofs to reinforce and protect the leading edge from stone chips. Cap is 50" wide overall.



## Rear Roof Support **ALL23122**

Drilled and slotted aluminum support strengthens Dirt Late Model and Modified rear roof area. Support is 42"L x 7/8"W x 1/8" thick and has 1/4" x 1/2" slots on 1" centers.



## Accessory Clamps

Aluminum two-piece clamps are ideal for mounting small parts and accessories or creating an adjustable clamp-on mount for supporting body or roof panels. Clamps are 1/2" wide and include two 1/4" button head fasteners.



ALL10456

ALL10488

Size	With 1/4"-20 Mount	With 1/4"-20 Mount and a 1/4" Through Hole
1"	<b>ALL10455</b>	<b>ALL10485</b>
1-1/4"	<b>ALL10456</b>	<b>ALL10486</b>
1-3/8"	<b>ALL10457</b>	<b>ALL10487</b>
1-1/2"	<b>ALL10458</b>	<b>ALL10488</b>
1-5/8"	<b>ALL10460</b>	<b>ALL10489</b>
1-3/4"	<b>ALL10459</b>	<b>ALL10490</b>

## Fiberglass Dash Panels

One-piece, sturdy fiberglass dash panel has four outer pods to accept 2-5/8" gauges and a center area which is perfect for tachometers up to 5" diameter. Wrap around style panel has upper and lower mounting angles and measures 29"W x 7" T.



**ALL23242** .... White

**ALL23243** .... Black

\*Gauge Kits available to work with dash panels found on page 70.

## Windshield **ALL23240**

Tinted scratch-proof material provides added protection to driver from wind and debris. Shield has rounded edges for a clean, smooth appearance and measures 30" L x 4-1/4" tall. Commonly used on Dirt Late Models and Modifieds.



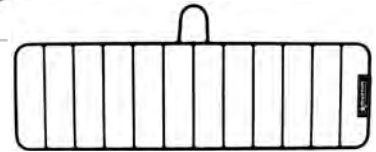
## Windshield Support **ALL23245**

Aluminum support mounts behind polycarbonate style windshield to help prevent flexing and improve aerodynamics. Support is 32"L x 1"W and includes 1/4" pre-drilled holes for a center support.



## Rock Screens

Steel screen mounts to chassis providing driver added protection from rocks and debris. Black powder coated screen is 7-1/2" tall with 2" wide slots. Approximately 1.60 lbs.



**ALL30165** .... 25" Long

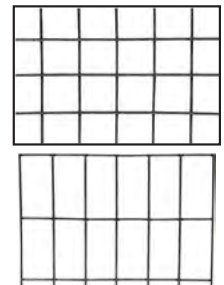
**ALL30166** .... 23-3/4" Long

## Steel Wire Screen

Electrically welded steel screen is used for a variety of applications when additional protection is needed. Screen is 2' x 2', constructed of .080" diameter wire and galvanized for corrosion resistance.

**ALL22276** .... 1" x 1"

**ALL22277** .... 1" x 2"





## Dirt Late Model Spoiler

**ALL22999**

Black powder-coated aluminum spoiler consists of two unequal length laser cut sections, one 16" wide and the other 56" wide. Unequal length design blades provide more down force on the right rear of the car and allow more spoiler area in case of right side damage. Assembled spoilers measure 72" wide x 8" tall with a 1" reinforcing lip. Three vertical supports have 2" of adjustment. Mounting hinges included.



## Modified Spoiler Kits

Aluminum spoiler kit includes all components to build a two-piece spoiler up to 67" wide. Kit includes one 49" blade and one 18" blade with separate ends for building a custom width spoiler. Blades feature a reinforcing lip located on the trailing edge and a black powder-coated finish. Complete spoiler kit includes two rear blades, four spoiler support brackets, two outer side panels, a center support and mounting hinges for each blade.



**ALL22961** .... 3" Tall Spoiler Kit

**ALL22960** .... 3" Tall Spoiler without Sides or Center Support

## Modified Spoilers

Aluminum spoiler is a two-piece design totaling 67" in width including one 49" blade and one 18" blade. Features include rear blades with pre-formed ends, a reinforcing lip located on the trailing edge and a black powder-coated finish. Complete spoiler includes two rear blades, two outer side panels, a center support and mounting hinges for each blade.



**ALL22992** .... 3" Tall Spoiler Kit

**ALL22973** .... 3" Tall Spoiler without Sides or Center Support

## Spoiler Supports

Aluminum support has strong 1/4" steel rod ends with hardware. Center tube has left- and right-hand threaded ends for quick adjustments. 1/4"-20 mounting hardware included. Sold each.



**ALL23022** .... 7-1/2" to 8-3/4"

**ALL23023** .... 9-1/2" to 10-3/4"

## Spoiler/Body Brace



Solid body brace works well for securing panels or noses in position and features a tension bolt to adjust brace to desired length. Brace is painted black, has pre-drilled 3/16" mounting holes on each end and commonly cut-to-length.

**ALL23020** .... Steel Long Body Adjusts up to 27"

**ALL23019** ... Steel Short Body Adjusts up to 26" **NEW**

**ALL23021** ... Aluminum Short Body Adjusts up to 26"

## Spoiler Brackets

Aluminum spoiler brackets rivet directly to the rear spoiler and bolt to the side supports. Curved slot allows quick spoiler adjustment. Brackets are sold at and require a 90° bend for LH or RH use. Package of 2.



**ALL23251** .... 4" Tall Bracket for 5" Spoiler

**ALL23250** .... 6-1/2" Tall Bracket for 8" Spoiler

## Rear T-Bar Breakaway

Aluminum breakaway mounts to the right rear t-bar found on most Late Models and Modifications. 1/8" thick with an overall length of 20" wide but it can easily be cut down to 14".



**ALL23255** .... Plain

**ALL23256** .... Black

## Aluminum Hinges

Low profile hinge is 2" wide when open and has 7/8" of flat surface on each side of the center pin. Available in 36" and 72" lengths. Commonly used when building spoilers and access doors.



Length/Color	Each	5-Pack
36" Long, Plain	<b>ALL23125</b>	<b>ALL23125-5</b>
72" Long, Plain	<b>ALL23127</b>	<b>ALL23127-5</b>
36" Long, Black	<b>ALL23126</b>	<b>ALL23126-5</b>
72" Long, Black	<b>ALL23128</b>	<b>ALL23128-5</b>

## Access Panel Kits

Aluminum panels can be mounted to provide easy access to dry sump pump tanks, fuel cells or other under panel items. Kits include frame, access door, hinge, quick turn fastener and quick turn fastener spring. Sizes refer to door opening dimensions, add 2" for installed dimensions.



Size	Clear	Black
6" x 6"	<b>ALL18530</b>	<b>ALL18540</b>
8" x 8"	<b>ALL18531</b>	<b>ALL18541</b>
6" x 14"	<b>ALL18532</b>	<b>ALL18542</b>
10" x 14"	<b>ALL18533</b>	<b>ALL18543</b>
14" x 14"	<b>ALL18534</b>	<b>ALL18544</b>

## Metric Brake Rotors

New stock replacement brake rotor includes new bearing races and studs for most intermediate sized Metric chassis cars including Monte Carlo, Grand Prix, and Regal. Rotors measure 10.5" O.D. x 1.03" thick. Bearings and seal not included.

Note: Both rotors will work with Allstar metric spindles ALL56318 or ALL56319.



ALL42088

## 1979-81\*

**ALL42086** .... Rotor With 5/8"-11 Wheel Studs, 5 on 5" B.C.

\*Outer bearing race has a 1.97" O.D.

### Related Components For 1979-81 Style Rotor

**ALL72160** ..... Spindle Nut Kit

**ALL72164** ..... Front Hub Dust Cap

**ALL72305** .... Master Bearing and Seal Kit

**ALL72128** ..... Hub Seal

**ALL72275** ..... Inner Bearing

**ALL72277** ..... Outer Bearing



ALL72160

ALL72164

ALL72305

## 1982-88†

**ALL42087** .... Rotor With M12-1.50 Studs, 5 on 4-3/4" B.C.

**ALL42088** .... Rotor With 5/8"-11 Wheel Studs, 5 on 5" B.C.

†Outer bearing race has a 1.78" O.D.

### Related Components For 1982-88 Style Rotor

**ALL72160** ..... Spindle Nut Kit

**ALL72164** ..... Front Hub Dust Cap

**ALL72306** .... Master Bearing and Seal Kit

**ALL72128** ..... Hub Seal

**ALL72275** ..... Inner Bearing

**ALL72278** ..... Outer Bearing



ALL72306

## TECH TIP

The term "Metric Chassis" commonly refers to the intermediate line of GM cars built from 1978 through 1988 including the Chevrolet Monte Carlo and Malibu, Oldsmobile Cutlass, Buick Regal, and the Pontiac Grand Prix. These chassis are very similar but they also have some differences. One of the major differences applies to the front steering spindles and brake rotors. There were three different brake rotors used and two different spindles. 1978 year vehicles used a spindle/rotor combination that was a one-year production. 1979-88 vehicles used the same spindle but utilized two different brake rotors. These rotors appear very similar but the 1979-81 use a brake rotor with a larger outer bearing and race than the 1982-88 model years. These rotors may be interchanged but will require the matching outer bearing for proper installation.

## Hybrid Brake Rotor **ALL42094**

The hybrid rotor combines the versatility of the Granada style hub with a reduced diameter and width. Rotor is a popular choice when used with Mustang II spindles, metric style brake calipers and hybrid caliper brackets. Rotor measures 10-1/8" O.D. x .812" thick, includes 5/8"-11 wheel studs on a 5x5" B.C., weighs 14 lbs. and includes new bearing races.



### Related Components

**ALL72161** ..... Spindle Nut Kit

**ALL72164** ..... Front Hub Dust Cap

**ALL72309** .... Master Bearing and Seal Kit

**ALL72126** ..... Hub Seal

**ALL72270** ..... Inner Bearing

**ALL72274** ..... Outer Bearing

## Granada Brake Rotor

Rotor is often used when converting stock Mustang II brake assemblies to 11" O.D. x .875" brake rotors and larger calipers. Rotors include new bearing races and install directly to Mustang II spindles with stock bearings and seals (not included).

**ALL42090** .... Rotor w/ 1/2"-20 Wheel Studs, 5 on 4-1/2" B.C.

**ALL42091** .... Rotor w/ 1/2"-20 Wheel Studs, 5 on 4-3/4" B.C.

**ALL42089** .... Rotor w/ 5/8"-11 Wheel Studs, 5 on 5" B.C.

### Related Components

**ALL72161** ..... Spindle Nut Kit

**ALL72165** ..... Front Hub Dust Cap

**ALL72308** .... Master Bearing and Seal Kit

**ALL72126** ..... Hub Seal

**ALL72270** ..... Inner Bearing

**ALL72274** ..... Outer Bearing



ALL42090

ALL72165

ALL72161

ALL72308

## GM Rear Brake Rotor **ALL42095**

Hat style brake rotor with 5 on 4-3/4" pattern can be used with ALL42180 and ALL42181 7.5" metric caliper brackets and stock type axles. 11-5/8" vented rotor is .790" thick and has a 2.800" I.D. center indexing hole to work with most metric style axle angles with a maximum O.D. of 6".



## Late Model and Modified Brake Rotor **ALL42011**

Lightweight solid rotor for Late Models and Modifieds. Use anywhere reduction of un-sprung weight is desirable. Rotor is scalloped to provide maximum weight loss without compromising braking performance or rotor durability. Rotor is steel 8-bolt with a 7" bolt circle, 11.75" diameter and .250" thickness.





## 32 Vane Non-Directional Brake Rotor

### ALL42010

Popular 8-bolt brake rotor is commonly used on the rear of modifieds and stock cars and features a 32 non-directional vane design which allows this rotor to be used on either side of the vehicle. Rotor measures 11.75" x .810" wide and weighs just 8 lbs.



## 40 Vane Directional Rotors

Heavy-duty 40 vane brake rotors provide added strength and cooling over standard 36 vane rotors. 11.75" x 1.25" 8 bolt rotors weigh just 11 pounds and have ball milled slots to keep rotor clean.

**ALL42004** .... LH 1.25" x 11.75" 8-Bolt  
**ALL42005** .... RH 1.25" x 11.75" 8-Bolt



ALL42004

## 36 Vane Directional Rotors

Rotors have 36 directional cooling vanes and are 1-1/4" thick x 11-3/4" diameter. Directional cooling vanes allow brakes to run much cooler than conventional rotor designs. Rotors fit solid mounting brake hats or hubs, and weighs 11.5 lbs

**ALL42000** .... LH 1.25" x 11.75" 8-Bolt  
**ALL42001** .... RH 1.25" x 11.75" 8-Bolt



ALL42000

## Rotor Bolt Kit

Grade 5, 1" bolts fasten disc brake rotors to rotor hat or hub. Includes ten bolts, washers, and self-locking nuts.

**ALL42026** .... 5/16"-18 Kit  
**ALL42036** ... 5/16"-24 Kit



ALL42036

## Stamped Steel Rotor Hat

### ALL42120

Brake hat fits 8-bolt rotors with 7" bolt circle mount. Made of stamped steel with a 3" offset and drilled for 4-1/2", 4-3/4", and 5" bolt circles. Hat has 3.060" diameter centering hole and fits axle angles with up to 5.75" diameter. Drilled for 1/2" wheel studs. IMCA Legal.



## Cast Aluminum Rotor Hats

Cast aluminum hats are available in two offsets, fit 8-bolt rotors with 7" bolt circle mount, have a 3.060" diameter centering hole and fit axle angles with up to 6.050" diameter. Drilled for 1/2" studs.

**ALL42129**..... 2-1/2" Offset, 2.2 lbs.  
**ALL42128**..... 3" Offset, 2.5 lbs.



ALL42129

## Brake Calipers

New, not re-manufactured stock style calipers are perfect replacements on most GM vehicles and will fit up to 1" wide rotor. Metric inlet thread is M10-1.50. Big GM inlet thread is 7/16"-20.

**ALL42081** .... RH 1973-77 Big GM D52 Series  
**ALL42082** .... LH 1973-77 Big GM D52 Series  
**ALL42083** .... RH 1978-87 Metric GM D154 Series  
**ALL42084** .... LH 1978-87 Metric GM D154 Series

Note: We reference RH (right-hand) or LH (left-hand) based on the caliper being mounted behind the rotor, however, all calipers may be mounted on the front or backside of the rotor.



ALL42083

## GM Caliper Bolts

Replacement caliper bolts fit most GM calipers and allow for easy installation and removal. Bolts feature a built-in sleeve to allow for extra caliper travel. Package of 2.

**ALL42079** .... Socket Head, 3/8" Allen  
**ALL42080** .... Hex Head, 5/8" Wrench



ALL42079

ALL42080

## Caliper Bolt Lock Washers

### ALL16133-25

Correct lock washer to be used with GM style caliper bolts. Washer also acts as a spacer in applications when there is reduced thread engagement in some fabricated brackets. Sold in a pack of 25.



## Brake Line Deflectors

Deflectors mount on caliper or spindle on an open wheel car to protect brake lines and fittings from damage. Sold each.

**ALL50250** .... LH Deflector  
**ALL50251** .... RH Deflector



ALL50250

## GM Caliper Spacers

Aluminum spacers for use with stock or stock design aftermarket calipers and thin rotors. Spacers keep the piston safely in the bore of the caliper. Choose from large GM style or midsized GM Metric caliper. Spacers are sold each and may need additional clearance depending on caliper used.

**ALL42039** .... GM Metric, D154 series, 0.100" Thick  
**ALL42040** .... GM Metric, D154 series, 0.190" Thick  
**ALL42041**..... Big GM, D52 Series, 0.190" Thick



ALL42040

## Caliper Spacers

Aluminum spacer is designed to work with non-bridge bolt pads such as Wilwood Superlite, Hawk HB101 series and Performance Friction 7751. Sold each.

**ALL42042** .... 0.119" Thick  
**ALL42043** .... 0.190" Thick



ALL42042



## Mustang II Caliper Brackets

Install 11" Granada style rotor and GM Metric D154 series caliper on stock height or lowered Mustang II spindles with this bolt-on caliper bracket. Lightweight steel bracket weighs just over one pound and is sold individually. Commonly used on modifieds and stock cars.

- ALL42110** ..... LH
- ALL42111** ..... RH



ALL42111

## Hybrid Mustang II Caliper Brackets

Install 10-1/8" hybrid style rotor (ALL42094) and GM Metric D154 series caliper on stock height or lowered Mustang II spindles with this bolt-on caliper bracket. Lightweight steel bracket weighs just over one pound and is sold individually. Commonly used on modifieds and stock cars.

- ALL42118** ..... LH
- ALL42119** ..... RH



ALL42118

## GM 7.5" Rear Caliper Brackets



ALL42180 ALL42181

Steel bolt-on bracket is used when converting drum brake equipped 7.5" GM style rear end to disc brakes. 1/4" thick bracket replaces the drum brake backing plate to provide secure mounting for GM Metric D154 series caliper. Use with ALL42095 brake rotor.

- ALL42180** ..... LH Bracket
- ALL42181** ..... RH Bracket

## Ford 9" Axle Spacer Plates

Spacer plate takes the place of drum brake backing plate and properly pre-loads the tapered style axle bearing. Spacers t large bearing Ford 9" housing ends. Sold each.

- ALL72318** ..... Late Torino Style
- ALL72319** ..... Early Style

### Related Component

- ALL72042** ..... Backing Plate T-Bolts (Late Style), 8-Pack



ALL72318

## Rear Caliper Brackets

Made from 1/4" thick steel, brackets 3" diameter axle tube and will work with most 11.75" diameter rotors.



ALL42102

ALL42186

### Clamp-On Brackets

- ALL42101** ..... Big GM, D52 Series
- ALL42103** ..... GM Metric, D154 Series, Wide Clamp
- ALL42185** ..... GM Metric, D154 Series, Narrow Clamp
- ALL42186** ..... GM Metric, D154 Series, Narrow Clamp with Reinforcing Gussets
- ALL42105** ..... Wilwood Dynalite, 5-1/4" Spacing
- ALL42109** ..... Wilwood Superlite, 3-1/2" Spacing

### Weld-On Brackets

- ALL42100** ..... Big GM D52 Series
- ALL42102** ..... GM Metric D154 Series
- ALL42104** ..... Wilwood Dynalite, 5-1/4" Spacing
- ALL42108** ..... Wilwood Superlite, 3-1/2" Spacing

## GM Metric Caliper Bracket

### ALL42133

3-piece modular bracket has the caliper bracket bolted separately for easy installation to a 3" axle tube without removing the rear hub assembly. Specially designed to mount a GM Metric D154 series caliper with 5-1/2" bolt spacing to axle tube when using a 11-3/4" diameter brake rotor. Additional locking bolts install into axle tube to help prevent bracket from rotating.



### Replacement Component

- ALL99433** .... Bolt-On Caliper Bracket

## Wilwood Superlite

### Caliper Bracket ALL42134

Lightweight aluminum caliper bracket bolts together for easy installation to a 3" O.D. axle tube without removing the rear hub assembly. Specially designed to mount a Wilwood Superlite caliper with 3-1/2" bolt spacing to axle tube when using a 11-3/4" diameter brake rotor. Additional locking bolts install into axle tube to help prevent bracket from rotating.



## Wilwood Superlite Caliper Bracket for Bolt-On Snouts ALL42137

Bracket is designed for use with 8-bolt axle tubes and bolt-on snouts where there is no room for a bracket to clamp on the tube. This bracket mates between the tube and the snout and has multiple holes for preference of caliper location.







## Mustang II Front Disc Brake Kits

Improve the stopping power and safety of cars equipped with Mustang II spindles. Kits include large 11" brake rotors, caliper mounting brackets, calipers, brake pads and installation hardware. Brake hose kits ALL42025 or ALL42032 will help complete the installation.



- ALL42024** ... Disc Brake Kit Rotors with 1/2"-20 Wheel Studs 5 On 4.50" B.C.
- ALL42029** .... Disc Brake Kit Rotors with 1/2"-20 Wheel Studs 5 On 4.75" B.C.
- ALL42030** .... Disc Brake Kit Rotors with 5/8"-11 Studs 5 On 5" B.C. (Brake Pads Not Included)

## Rear Disc Brake Kit ALL42019

Update and greatly improve braking power by converting standard drum brake rear ends to disc brakes. Universal rotor hats fits 5 on 4-1/2", 5 on 4-3/4" and 5 on 5" bolt patterns. Caliper mounting brackets weld onto 3" axle tubes. Rotor hats will not work with some aftermarket axles. Axles with angles larger than 5-3/4" must use cast aluminum rotor hats, ALL42128 or ALL42129.



Kit includes rotors (.810" x 11.75"), universal rotor hats, rotor bolt kits, caliper mounting bolts and caliper mounting brackets for GM Metric D154 series calipers (ALL42083 and ALL42084).

**Kit Does Not Have Provisions for Parking Brake**

## Brake Bleeder Bottles

Contain the mess of bleeding brakes by capturing fluid in this 16-oz. bottle with a 15" long hose which attaches to most bleeder screws. The removable cap has a built-in fitting to secure the hose during storage to help prevent spills. Choose from a steel lanyard retainer that suspends the bottle from a chassis or suspension component, or a magnet retainer to secure the bottle to a steel object such as a brake drum or rotor during bleeding. ALL11017 has a magnet retainer and a built-in one way check valve for one person brake bleeding.



- ALL11019** ..... Bottle with Lanyard
- ALL11018** ..... Bottle with Magnet
- ALL11017** ..... Bottle with Magnet and Check Valve
- ALL99435** .... Replacement Hose

## Castrol SRF Brake Fluid ALL78115

Castrol SRF brake fluid has a wet boiling point of 518°F (270°C) which exceeds DOT 3 and 4 standards. Do not mix Castrol SRF and other brake fluids, as this will reduce the benefits of Castrol SRF. Sold in 33.8-oz bottle.



## AP Radi-CAL R3 Brake Fluid

### ALL78116

Developed for extreme, high temperature racing conditions with a typical dry boiling point of 617°F and a wet boiling point of 383°F. Conforms to DOT 4 specifications. Sold in 16.9-oz. bottle.



## AP Radi-CAL R2 Brake Fluid

### ALL78108

Designed for extreme, high temperature racing conditions with a dry boiling point of 594°F and a wet boiling point of 383°F. Conforms to DOT 4 specifications. Sold in 16.9-oz. bottle.



## Motul 600 Brake Fluid

### ALL78117

100% synthetic brake fluid has an extremely high boiling point helping to prevent vapor lock and brake fade during hard use. Motul 600 exceeds DOT 3 and DOT 4 specifications. Dry boiling point 594°F, wet boiling point 421°F. Sold in 16.9-oz. bottle.



## Motul 660 Brake Fluid

### ALL78118

100% synthetic brake fluid is specifically designed to resist extreme temperature generated by racing carbon and ceramic brakes. Motul 660 exceeds DOT 3, DOT 4, and DOT 5.1 specifications. Dry boiling point 617°F, wet boiling point 401°F. Sold in 16.9-oz. bottle.



BRAKE

## Brake Duct Hose

Flexible, non-kink hose directs air from front ducts to spindle ducts. Available in 10 ft. lengths and three temperature ranges.

**275°:** 3" single-ply thermoplastic rubber wall with a spring steel wire support.



**300°:** 3" or 4" double-ply neoprene coated woven berglass hose with spring steel inner and berglass external supports. Smooth inner wall for unrestricted flow.

**550°:** 3" or 4" double-ply silicon coated berglass hose with spring steel inner and berglass external support. Smooth inner wall for unrestricted flow.

- ALL42150**..... 3"X10', 275°
- ALL42151**..... 3"X10', 300°
- ALL42152**..... 3"X10', 550°
- ALL42154**..... 4"X10', 300°
- ALL42155**..... 4"X10', 550°

## Spindle Ducts



Aluminum 3" ducts fit most fabricated spindles. Available in dual or single inlet.

- ALL42112**.. LH, Dual Inlet
- ALL42113**.. RH, Dual Inlet
- ALL42116**.. LH, Single Inlet
- ALL42117**.. RH, Single Inlet

## In-Line Duct Blowers



Many uses include cooling brake systems or assisting helmet cooling efforts. CFM ratings at 13.6 volts with a 3.5 amp draw.

- ALL13010**..... 3" Compact, 5" Long, 140 CFM
- ALL13008**..... 3" Heavy-Duty, 8" Long, 170 CFM
- ALL13009**..... 4" Heavy-Duty, 6" Long, 240 CFM

## Plastic Brake Ducts

Ducts direct outside air to brakes, oil coolers and the driver. 3" O.D. with centered, offset or dual outlets.



- ALL42140**..... Centered, 5-1/2" x 8"
- ALL42141**..... Offset, 5" x 9-3/4"
- ALL42142**..... Double Hole, 5" x 9-3/4"
- ALL42143**..... Single Hole, Clear, 6" x 10-3/4"
- ALL42144**..... Double Hole, Clear, 9" x 11"



## Brake Duct Hose Flange

### ALL42160

Flange rivets to nosepiece. 3" brake duct hose can then be hose clamped to flange.



## Hanging

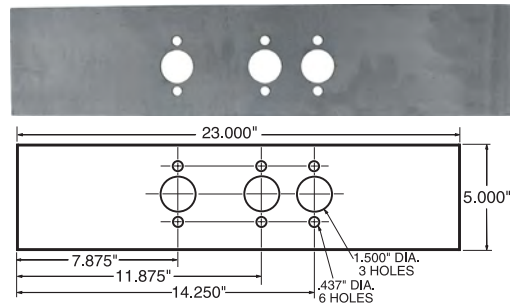
### Brake Pedal Mount ALL54060

Welds to chassis to mount Wilwood and Tilton style hanging pedals. Notched to clear balance bar.



### Floor Pedal Plate ALL54050

Weld-in pedal plate is 23" x 5" x 1/8" and speeds up race car construction by providing the proper spacing for mounting pedal/master cylinder assemblies.



## Pedal Extensions

Kits move floor mounted pedals closer to the driver and eliminate the need for extra long seat brackets used to move the driver forward. Now just leave the seat in the desired location and move the pedals closer to the driver.

- ALL41050**..... 2" Kit - Complete
- ALL41051**..... 4" Kit - Complete



BRAKE



## Hanging Brake Pedal Assembly **ALL41014**

Universal brake pedal assembly includes everything to install a new hanging brake pedal and is ideal when relocating older style floor mounted brake pedal with under floor master cylinder to a more convenient firewall location. Firewall mounted bracket is pre-drilled to accept Allstar power brake boosters or most manual brake master cylinders and includes a dash support bracket. Multiple pedal mounting holes allow arm to be positioned 5-7/8" to 11-7/8" from firewall mounting plate in 1-1/2" increments for desired pedal placement. Included 3/8"-24 clevis and threaded pushrod may be cut and re-threaded as needed depending on final pedal location.



## 90° Hanging Brake Pedal Assembly **ALL41013**

Universal pedal mount positions the booster and master cylinder under the dash 90° to the firewall for a clean underhood appearance and is ideal for vehicles that simply do not have room in the engine compartment for a booster or master cylinder. Bracket has provisions to accept Allstar power brake boosters or to mount a master cylinder directly to the bracket for manual brake applications. Welding required to mount pedal tab to pedal.



## Universal Floor Mounted Brake Pedal Assembly **ALL41015**

Pedal assembly is commonly used when converting under-floor or standard single reservoir master cylinder to a power, dual reservoir master cylinder brake system. Pedal assembly will accept Allstar 7" and 8" power brake boosters. Pedal arms feature bushings to resist wear and provide years of use. Pedal assembly does not have provisions for a clutch pedal.



\*Universal pedal assembly will work on 1928-32 Fords with modifications

## Power Brake Boosters

Boosters are available in 7" or 8" diameter and fit Allstar brake pedals as well as other aftermarket units. For use with ALL41060-41062 master cylinders. The 7" booster is 3-3/4" deep, the 8" booster is 5-1/2" deep.



- ALL41005**..... 7", Single Diaphragm, Universal
- ALL41006**..... 8", Dual Diaphragm, Universal
- ALL41007**..... '55-64 Chevy, 7", Single Diaphragm, Std. Finish
- ALL41008**..... '55-64 Chevy, 7", Single Diaphragm, Chrome
- ALL41009**..... '55-64 Chevy, 8", Dual Diaphragm, Std. Finish

## Corvette Style Master Cylinders

Dual reservoir master cylinders have 1" bores and outlet ports on both sides for easy plumbing and installation. Popular master cylinders are used with disc/disc and disc/drum manual or power brake applications. Slotted mounting holes on 3-1/4" centers work well with Allstar brake boosters.



ALL41060

- ALL41060**..... Cast Iron with 3/8" Ports
- ALL41061**..... Aluminum with 3/8" Ports
- ALL41062**..... Cast Iron with 1/2" and 9/16" Ports

## Big Bore Master Cylinder

**ALL41064**  
Master cylinder with large 1-1/4" bore works well on vehicles that require increased volume for proper braking or as an option when experiencing excessive pedal travel with standard 1" bore Corvette style master cylinders. Cast iron master cylinder features a deep hole piston for use with manual or power brakes. Front brake port accepts 3/16" steel brake line with 3/8"-24 inverted flare nut. Rear brake port accepts 1/4" steel brake line with 1/2"-20 flare nut (using included adapter) or 9/16"-18 flare nut by removing adapter.



## Master Cylinder Adapter Fittings **ALL41012**

Fittings adapt master cylinders or combination valves with 1/2"-20 and 9/16"-18 ports to accept 3/16" inverted flare brake line with standard 3/8"-24 fittings. Kit includes one of each fitting.



## Pedal Rod Extensions

Steel extensions have 3/8"-24 threads and are often used to connect the brake pedal to the master cylinder or booster using a female rod end or a clevis.



- ALL41027**..... 4-3/4" Long Overall with 3" of Male Thread
- ALL41028**..... 8" Long overall with 1" of Male Thread

## Brake Pedal Clevis **ALL41026**

Clevis fastens to the brake pedal arm to accept a threaded rod extension or power brake booster pushrod. Clevis is threaded for a 3/8"-24 rod and has a 3/8" pin.



## Master Cylinder

### Remote Reservoir **ALL42046**

High-impact plastic remote reservoir is used with remote filled master cylinders for brake or hydraulic clutch systems. The reservoir features two 5/16" barbed outlet fittings supplied by two separate chambers within the housing to keep a small amount of fluid in one side in the event of a line or component failure. The reservoir is 3"W x 4-1/2"H and has a capacity of approximately 10 fl. oz.



### Plunger Style Brake Light Switch **ALL76253**

Popular two terminal brake light switch found in most vehicles from the 1950's to today. Ideal for most applications, switch is spring loaded to the on position and turns off when contacted by the brake pedal assembly. Switch has 1/2" threads with jam nuts for easy mounting in a bracket, and two .250" blade type terminals.



### Lever Style Brake Light Switch **ALL76250**

Brake switch is commonly used with under-floor mounted brake pedal assemblies when switch can contact the brake pedal arm. The switch is spring-loaded to the on position, turning off when brake pedal is released and contacts the switch lever. Mounting bracket features two #10-32 tapped mounting holes, 5/8" on centers. Designed for easy two wire connection, one "+" supply and the other to power brake lights or a brake light relay. Switch is rated at 4.5 amps and features two male bullet terminals.



### Pressure-Activated Brake Light Switches

Switch is plumbed into the brake system and is activated by closing the electrical connection with rising brake pressure (60-120 PSI). Designed for easy two wire connection, one "+" supply and the other to power brake lights or a brake light relay. Switches are rated at 4.5 amps and have 1/8"-27 dry seal mounting threads.



**ALL76251**..... Male Bullet Terminals  
**ALL76252**..... 6-32 Screw Terminals

### Residual Check Valves

Residual check valves hold a small amount of pressure in the brake system to keep the brake system functioning properly while helping to maintain a firm pedal. Maintaining system pressure prevents fluid from returning to the master cylinder when the master cylinder is positioned lower than or close to the same height as the calipers or wheel cylinders. Proper system pressure also keeps piston and wheel cylinder seals expanded, creating a positive seal and brake pads seated against the rotor. Valves include two 3/16" inverted fittings.



**ALL41048**..... 2 lb. for Disc Brakes (Blue)  
**ALL41049**..... 10 lb. for Drum Brakes (Red)

### Distribution Block with Proportioning Valve and Brake Light Switch **ALL48037**

Distribution block connects brake lines from the master cylinder to front and rear brakes with the added benefit of a rear proportioning valve and built-in pressure activated brake light switch. The proportioning valve may be adjusted to limit rear brake pressure to help prevent rear brake lock-up. Block ports have 3/8"-24 threads that accept 3/16" inverted fittings. Block includes fittings, pigtail wiring harness and boot.



#### Related Component

**ALL48038** .... Mounting Bracket for ALL48037

### Proportioning Valve **ALL48025**

Adjust front-to-rear brake bias with the twist of a knob. Provides up to 57% reduction. Fitting ports are 1/8"NPT. Valve includes two fittings to adapt to 3/16" brake line. 1"L, 1-3/4"W and 3-5/16" tall.



### Combination Valves

Multi-purpose valves are used in the brake system to properly distribute fluid to the front and rear brakes, meter the amount of fluid and pressure delivered to each brake and provide an option to connect a warning light to alert in case of brake failure.



**ALL41040**..... Disc/Drum  
**ALL41042**..... Disc/Disc

#### Related Component

**ALL41044**..... Connector for Warning Light



### Bleeder Tool **ALL41043**

Tool temporarily replaces the warning light switch in ALL41040 and ALL41042 combination valves to keep the spool valve centered when bleeding the brake system. When bleeding the brake system, the spool valve may be forced to the front or rear and prevent proper system bleeding.



### Combination Valve Mounting Brackets

Brackets provide a secure mount for combination valves allowing them to be mounted to the frame or directly under the master cylinder providing access to lines and fittings.



**ALL41045**..... Horizontal Mount Bracket  
**ALL41046**..... Vertical Mount Bracket

**Check Out Our Fittings and Hoses Section!**  
**For more brake related fittings and hoses on pages 106-121**

## Electric Line Lock Kit

Electrically controlled valve engages with a switch, and holds pressure to the front brakes on drag race vehicles. Commonly used to prevent vehicles from rolling once they have staged or during burn outs in the water box. Detailed installation instructions included.



ALL48012

- ALL48012** .... Electric Line Lock Master Kit
- ALL48013** .... Electric Line Lock Kit with Fittings
- ALL48014**..... Electrical Hardware Kit

## Brake Bias Adjuster with Reference Pointer

Know exactly where brake adjustments are set, no more guessing the correct setting. When the adjusting knob is turned, the pointer moves along the reference scale. Adjuster body can be pivoted for easy viewing and multiple applications. Record where the pointer is located and use as baseline adjuster. Housing, internals, brackets, and knob with detent are all made of aluminum and includes a five foot adjuster cable with 3/8" - 24 threads that can be cut to any length for a custom fit and has 3/8"-24 threads for most standard pedal assemblies.



ALL42078



ALL42073



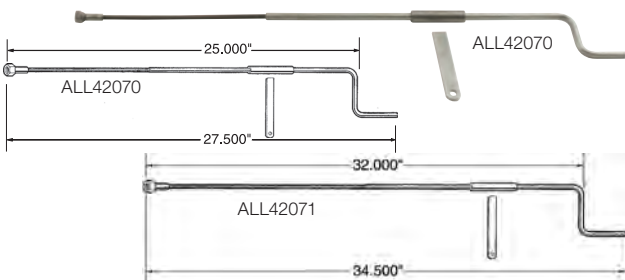
- ALL42074**..... Adjuster with Knob Silver
- ALL42073** .... Adjuster with Knob Black
- ALL42078** .... Adjuster with Crank Handle Silver
- ALL42077** .... Adjuster with Crank Handle Black

## Brake Bias Adjusters

Adjust brake bias from the driver seat to compensate for changing track conditions. Adjusters mount to balance bars with 3/8"-24 threads.



ALL42072



- ALL42070** .... Crank-Style Adjuster 27-1/2" OAL
- ALL42071** .... Crank-Style Adjuster 34-1/2" OAL
- ALL42072** .... Knob Style Adjuster with 5' Cable
- ALL99116**..... Replacement Cable Assembly

## Electric Right Front Brake Shut-Off ALL48017

Disable right front brake with the flip of a switch. Commonly found on Dirt Modified and Late Models, electric shut-off helps turn the car on entry when track conditions are heavy/wet. Kit electronically disables the right front brake yet allows brake pressure to bleed off from the right front brake caliper, unlike manual shut-off valves. Detailed installation instructions are included.



## Brake Shut-Off Valve

### ALL48010

Valve has 1/8"NPT inlet and outlet and is rated at 2,000 PSI. Use Allstar ALL50120 fitting for 3/16" inverted flare brake line. Dimensions: 1/2"W x 1-3/4"L x 1-9/16"H.



## RF Brake Shut-Off Valve Decal

### ALL48011

Decal has a 5/8" hole and is designed for use with the ALL48010 valve.



## Brake Bias Gauge Panels

Gauges show actual front and rear line pressure for making brake bias changes before or during the race. Pre-assembled units have 0-1500 PSI liquid-filled gauges with 1/8"NPT male fittings and bleeder valves to evacuate air from the gauges. 2-3/4" x 4-1/2" pre-drilled panels are offered in horizontal or vertical versions.



- ALL80170**..... Vertical
- ALL80172**..... Horizontal

## Swivel Head Brake Pressure Gauge ALL11020

Gauge temporarily replaces the bleeder screw in most aftermarket brake calipers with 1/4"-28 thread bleeder screws to measure brake pressure. Swivel head positions the 2-3/4" diameter gauge for easy viewing. Convenient remote bleeder can be used to evacuate air in the system for accurate readings.



### Related Component

**ALL11022** ..... Adapter converts ALL11020 and other gauges with 1/4"-28 thread to change to M10-1.50 thread for use with popular GM metric calipers.



ALL11022

## Brake Pressure Gauge Kit ALL11026

Brake pressure gauge kit includes two gauges, allowing one gauge to be used in the front and one in the rear brake system. Compare front to rear pressures to help diagnose problems or to preset your brake bias. Gauges easily replace 1/4"-28 brake bleeders which are commonly found in most aftermarket calipers.





### Dirt Late Model 1-Piece Front Bumpers

Our Dirt Late Model replacement bumpers are jig welded to meet OE manufacturer specifications, but these are not OE manufactured bumpers. Constructed of 1-1/2" x .065" wall mild steel tubing.



ALL22377

- ALL22380** .... Rocket 2005-2016\*
- ALL22382** .... Rocket 2005-2015
- ALL22379** .... Rocket 2022
- ALL22381** .... Mastersbilt
- ALL22377** .... Longhorn

\*Bumper has built-in rake for nose clearance.  
†Will also fit 2005-2017 standard Rockets

### Dirt Late Model 2-Piece Front Bumpers

Our 2-piece Dirt Late Model replacement bumpers are jig welded to meet OE manufacturer specifications, but these are not OE manufactured bumpers. Constructed of 1-1/2" x .065" wall mild steel tubing.



ALL22394

- ALL22394** ... Mastersbilt
- ALL22393** ... Mastersbilt, Gen X
- ALL22395** ... Rocket 2005-2015\*
- ALL22396** ... Rocket 2005-2015\*

\*Bumper has built-in rake for nose clearance.  
‡Bumper has 2" added to left side.

### Dirt Late Model Chrome Moly Bumpers

Our Chrome Moly Dirt Late Model replacement bumpers are jig welded to meet OE manufacturer specifications, but these are not OE manufactured bumpers. Lightweight 1-1/2" x .049" wall chrome moly front bumpers offer added strength and about a 25-30% (5-6 lbs.) weight savings compared to similar mild steel bumpers.



ALL22343

- ALL22343** .... Rocket 2022\*\*
- ALL22344** .... Longhorn

\*Bumper has built-in rake for nose clearance.  
†Will also fit 2005-2017 standard Rockets.

### Dirt Late Model Rear Bumpers

Our Dirt Late Model replacement rear bumpers are jig welded to meet OE manufacturer specifications but these are not OE manufactured bumpers. Constructed of 1-1/4" x .065" wall mild steel tubing.



ALL22384

- ALL22384** .... Mastersbilt, Gen X, 1-1/2" x .065" Main Tube
- ALL22388** .... Rocket, 36" CTC
- ALL22389** .... Rocket, 34" CTC
- ALL22385** .... Rocket 2022
- ALL22386** .... Longhorn

### Modified Universal Front Bumper

#### ALL22375

Bumper has 5" x 5" plate style mounts which measure 44" from outside to outside and can be modified to fit most chassis.



### Modified 2-Piece Extended Length Front Bumper

#### ALL22333

Extended length bumper features a 1-1/2" main tube with a 1-1/4" upper hoop that can be easily removed and reinstalled when fabricating a nose. Universal fit bumper extends out 21" from frame mounting brackets that are on 39" center, and weighs approximately 15 lbs.



### Modified Rear Bumper Kits

Universal rear bumper kits have fully welded frames and include separate 1-1/4" O.D. mounting tubes, bumper supports, and end caps that require welding for a custom fit to a variety of chassis widths.



ALL22336

- ALL22336** .... Wide Rear Bumper Kit with straight main tube is built from 1-1/4" O.D. x .065" wall mild steel tubing and measures 54" wide x 11-1/2" tall with a 34" wide fuel cell guard.



ALL22337

- ALL22337** .... Narrow Rear Bumper Kit with bent main tube is built from 1-1/2" O.D. x .065" wall mild steel tubing and measures 43" wide x 12-1/2" tall with a 39" wide fuel cell guard.

### Sprint Stacked Front Bumper

#### ALL22300

Stacked front bumper for improved front end protection is precision bent from 1" O.D. steel tubing, 6" tall x 8" long overall x 19-1/4" wide on center. Weighs less than 4 lbs.



### Aluminum ABC Template Front Bumper

**ALL22350**

Lightweight front bumper is 56" wide and weighs less than 2-1/2" pounds! Constructed of 1-1/2" x .083" wall aluminum tubing and pre-bent to match the contours of the template noses.



### ABC Template Front Bumper Kit

**ALL22372**

Designed to fit the shape of the ABC style nosepieces, this un-welded bumper kit is universal, can be built to any width and includes mounting sleeves that can be welded to the chassis. Bumper is constructed of 1-1/2" x .083" wall tubing and has an overall width of 58". Kit must be welded.



### ABC Template Front Bumper

**ALL22376**

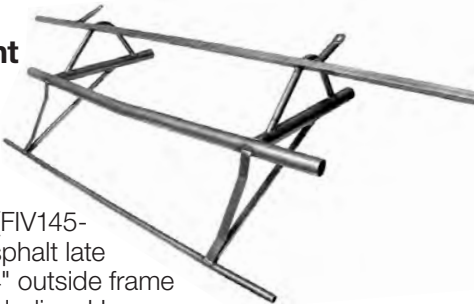
Designed to fit ABC style nosepieces, this fully welded front bumper is designed to fit most chassis with 35-1/2" center-to-center mounts. Bumper is constructed of 1-1/2" x .065" wall tubing and has an overall width of 48". Threaded inserts provide mounting points for a hood pin bar.



### Asphalt Outlaw Front Bumper

**ALL22326**

Designed to mount Camaro dirt style nose (FIV145-410) to most asphalt late models with 34" outside frame dimensions, including: Howe, Finishline, and Lefthander chassis.



### Bumper Hookup Kit

**ALL22315**

Cable kit mounts through the nose and around the bumper for easy wrecker hook-ups. Kit should be mandatory at every race track. Kit includes 3 ft. of coated cable and two clamps.



### 1981 Camaro Front Bumper Kit

**ALL22320**

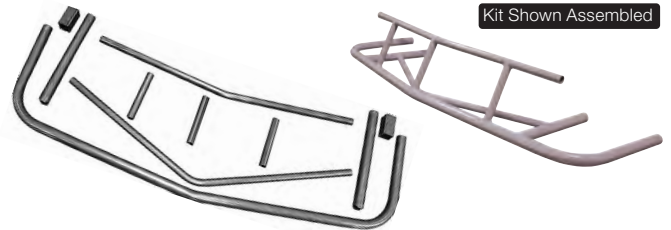
Universal bumper allows installation of most aftermarket 1981 Camaro nosepieces on any width chassis. Bumper is 1-3/4" x .095" wall mild steel tubing and includes 2" x 2" frame mounting slugs. Kit must be welded.



### Mustang Front Bumper Kit

**ALL22371**

Kit Shown Assembled



Universal bumper allows installation of aftermarket 1993 Mustang style nosepieces on any width chassis. Bumper is 1-3/4" x .095" wall mild steel tubing and includes 2" x 2" frame mounting slugs. Kit must be welded.

### Universal Mini Stock Front Bumper

Universal bumper allows installation on a variety of mini stock applications. Bumper includes 1-3/4" x .095" wall mild steel tubing main bar, two adjustable length 1-1/2" x .083" corner pieces and two 6" x 6" frame mount plates. Bumper can be assembled with a minimum width of 56" and a maximum width of 72" overall.



ALL22329

**ALL22328** .... Unwelded Kit

**ALL22329** .... Welded Kit (corners unwelded)

### Crown Vic Front Bumper Kit

**ALL22352**

Kit Shown Assembled

Bumper kit includes pre-cut and notched tubing to create a bumper designed to replace the factory impact bumper and bumper cover. Kit is constructed of 1-3/4" x .095" wall tubing and includes mounting plates to mount to factory frame. Bumper kit is not designed to mount factory bumper cover and requires welding for assembly.





## MD3 Monte Carlo SS Nosepieces

Tough, plastic 1983-88 style nosepieces are perfect for Factory Stock and Sportsman circle track cars.



- ALL23030** .... White
- ALL23031** .... Black
- ALL23032** .... Red
- ALL23033** .... Yellow
- ALL23034** .... Orange
- ALL23035** .... Chevron Blue

Shown with decal kit (sold separately).

## Monte Carlo SS Nosepieces

Tough, plastic 1983-88 style nosepieces are perfect for Factory Stock and Sportsman circle track cars.

- ALL23010** .... White
- ALL23011** ..... Black



Shown with decal kit (sold separately).



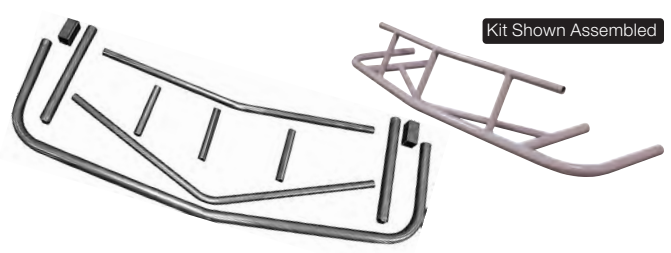
## Monte Carlo SS Headlight Decal Kits

Decal kits add a realistic look to most aftermarket nosepieces to replicate the popular 1983-88 Monte Carlo SS. Decals fit standard and MD3 style nosepieces.



- ALL23014**..... Nose Decal Kit with Stock Grille
- ALL23038** .... Nose Decal Kit with Mesh Grille

## Monte Carlo SS Front Bumper Kits



Kit Shown Assembled

Universal bumper kit is adjustable to accommodate Monte Carlo nosepieces to any chassis. Kits are constructed of 1-3/4" x .095" wall tubing and require welding.

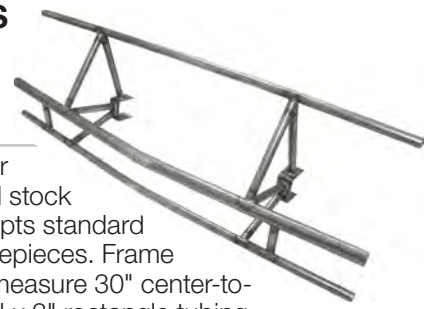
- ALL22370** .... Standard Monte Carlo SS Kit
- ALL22369** .... MD3 Monte Carlo SS Kit
- ALL22366** .... Standard Monte Carlo SS Kit, 2-Piece\*
- ALL22367** .... Upper Support Kit for ALL22366 (1-1/4" x .083")

\*Kit includes a 2-piece main tube for more convenient handling and lower shipping costs.

## Monte Carlo SS Bolt-On Front Bumper

**ALL22365**

Bolt-on style bumper fits most tubular and stock stubs. Bumper accepts standard Monte Carlo SS nosepieces. Frame mounting brackets measure 30" center-to-center and fit over 2" x 3" rectangle tubing.



## Flexible Body Brace



Flexible brace made from plastic extends up to 31" and may be cut to fit shorter applications. Commonly used to support lower quarter panel or nose sides. Aluminum brackets are adjustable to accommodate a variety of straight and angle applications.

- ALL23075** .....Body Brace, Each
- ALL23075-4**....Body Brace, 4-Pack

## Spoiler/Body Brace



ALL23020

ALL23019 / ALL23021

Solid body brace works well for securing panels or noses in position and features a tension bolt to adjust brace to desired length. Brace is painted black, has pre-drilled 3/16" mounting holes on each end and commonly cut-to-length.

- ALL23020** ... Steel, Long Body (Adjusts up to 27")
- ALL23019** ... Steel, Short Body (Adjusts up to 26") **NEW**
- ALL23021** ... Aluminum, Short Body (Adjusts up to 26")



## Monte Carlo SS Rear Bumper Covers



Shown with decal kit (sold separately).

Tough, plastic 1983-88 style rear bumper covers are perfect for Factory Stock and Sportsman circle track cars.

- ALL23015** .... White
- ALL23016** .... Black
- ALL23040** .... Red
- ALL23041** .... Yellow
- ALL23042** .... Orange
- ALL23043** .... Chevron Blue

## Monte Carlo SS Tail Light Decal Kit

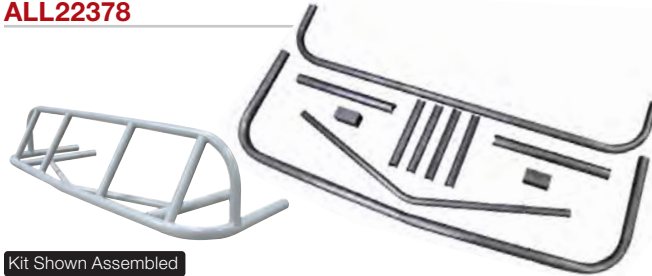
### ALL23017

Decal kit adds a realistic look to most aftermarket rear bumper covers to replicate the popular 1983-88 Monte Carlo SS.



## Monte Carlo SS Rear Bumper Kit

### ALL22378



Kit Shown Assembled

Kit includes pre-bent and notched 1-3/4" x .095" wall tubing to assemble a strong rear bumper that can be mounted to any width chassis and support the Allstar Performance and other aftermarket 1983-88 Monte Carlo SS rear bumper covers. Kit must be welded.

## Universal Rear Bumper Kit ALL22373

Designed to fit any chassis. Corner pieces are slid inside rear section and then welded or bolted to required width.

Includes 1-3/4" x .095" wall rear tube, two adjustable length 1-1/2" x .083" corner pieces, two lengths of tubing (connects bumper to any width chassis) and two sleeves which weld directly to the chassis.

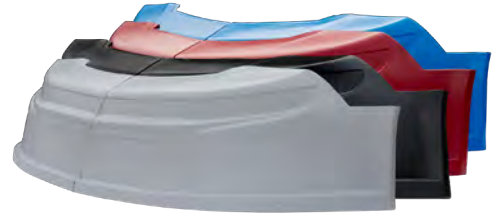


## Camaro SS Short Track Nosepieces

Designed specifically for short track use, in Stock Car, Sportsman and similar classes.

Noses feature minimal recessed pockets, flat lower valiance, corrected width and easier to mount fabricated fenders and hood.

- ALL23045** .... White
- ALL23046** .... Black
- ALL23047** .... Red
- ALL23048** .... Chevron Blue



## Camaro SS Decal Kit ALL23044



Decal kit adds a realistic look to most aftermarket nosepieces to replicate the popular Camaro SS short track nosepiece.

## Camaro SS Nose Support ALL23058

Plastic nose support is specifically designed to fit the underside curve of the Camaro SS nosepiece.

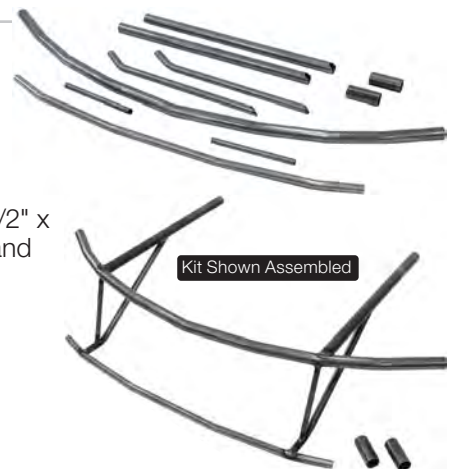
Support fastens to the underside of the nosepiece to stiffen nose and allowing it to be bolted directly to the bumper. Support fits LH or RH sides and is sold each.



## Camaro SS Bumper Kit

### ALL22322

Universal bumper kit is adjustable to accommodate Camaro SS nosepiece to any chassis. Kit is constructed of 1-1/2" x .083" wall tubing and requires welding.



Kit Shown Assembled



## Sheet Plastic

Plastic material is 1/4" thick and useful for many projects including building custom nose supports or front splitters.



- ALL22231** .... 15" x 48"
- ALL22232** .... 30" x 48"

## Lower Nose Support for MD3 Evolution

### ALL23064

Plastic nose support is specifically designed to fit the underside curve of the MD3 Evolution style Dirt Late Model nose piece. Support fastens to the underside of the nose piece and bolts directly to the bumper of most Dirt Late Models. Support is just under 3/8" thick and measures 39" L x 7" W. Support fits LH or RH sides, weighs 3.3 lbs and is sold each.



## Flexible Body Brace



Flexible brace made from plastic extends up to 31" and may be cut to fit shorter applications. Commonly used to support lower quarter panel or nose sides. Aluminum brackets are adjustable to accommodate a variety of straight and angle applications.

- ALL23075** .... Body Brace
- ALL23075-4**. Body Brace 4-Pack



Dan Ebert



Rodney Sanders

## Modified Nose Support

### ALL23073

Spring steel support fits under the nose panel for structural support and eases mounting of nose valances.



## Nose Support for Template Nose

Lightweight aluminum nose support features punch/are holes and predrilled mounting holes for easy installation to the nose and the chassis. Sold each.



- ALL23066** .... LH Support
- ALL23067** .... RH Support
- Related Components**
- ALL23020** .... Adjustable Steel Brace (16" to 27")
- ALL23021** .... Adjustable Aluminum Brace (21" to 26")

## Dragster Nose

### ALL23278

Aerodynamic fiberglass nose is strong yet lightweight, with a durable, black high-gloss, seamless gelcoat finish. Nose is 10" tall x 11" W x 29" L with a 1" mounting flange.



## Universal Tow Hooks

Universal hooks are designed to be mounted behind the bumper cover providing a quick access point for towing a vehicle to the pit area or back onto the track. Bracket has two 5/16" mounting holes to secure bracket to the frame or inner bumper.



- ALL22311** ..... Solid Mount
- ALL22312** ..... Swivel Mount

## Bumper Hookup Kit

### ALL22315

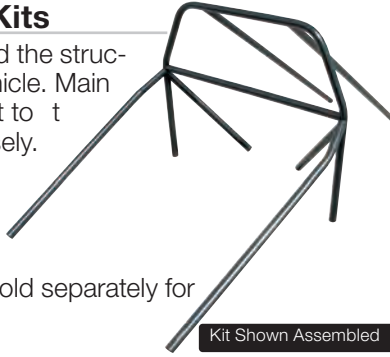
Cable kit mounts through the nose and around the bumper for easy wrecker hook-ups. Kit should be mandatory at every race track. Kit includes 3 ft. of coated cable and two clamps.





### 8-Point Roll Bar Kits

Kits increase safety and the structural integrity of the vehicle. Main hoops are custom bent to fit each application precisely. Hoop and bars constructed of .134" mild steel, 1-3/4" diameter tubing. Welding required. Floor plates sold separately for unibody cars.



Kit Shown Assembled

#### 8-Point Roll Bar Kits

- ALL22600** .... Camaro/Firebird 1967-69
- ALL22601** .... Camaro/Firebird 1970-81
- ALL22602** .... Camaro/Firebird 1982-92
- ALL22603** .... Camaro/Firebird 1993-02
- ALL22604** .... Camaro 2010-15
- ALL22608** .... G-Body (Monte Carlo, Cutlass, Regal, Grand Prix) 1978-88
- ALL22610** .... Mustang/Capri 1979-93

### 10-Point Roll Cage Kits

Kits increase safety and the structural integrity of the vehicle. Main hoops are custom bent to fit each application precisely. Hoop and bars constructed of .134" mild steel, 1-5/8" diameter tubing. Welding required. Floor plates sold separately for unibody cars.



Kit Shown Assembled

#### 10-Point Roll Cage Kits

- ALL22620** .... Camaro/Firebird 1967-69
- ALL22621** .... Camaro/Firebird 1970-81
- ALL22622** .... Camaro/Firebird 1982-92
- ALL22623** .... Camaro/Firebird 1993-02
- ALL22628** .... G-Body (Monte Carlo, Cutlass, Regal, Grand Prix) 1978-88
- ALL22630** .... Mustang/Capri 1979-93

### Floor Plates **ALL22640**

Bolt or weld these steel plates to the floor pan as required by most sanctioning bodies when installing roll bars into unibody cars. Increase the structural integrity and provide a solid mounting point for the roll bar. 6" x 6" plates are 1/8" (.125") thick and may also be used for a variety of other uses including fabricating brackets or mounts. Package of 6.



### Strut Bars **ALL22642**

Strut bars increase the rigidity and strength of a chassis eliminating flexing and increasing reaction times. Bars can be installed to upgrade existing ten point cage kits or when building a new chassis. Pre-bent to fit a variety of applications, bars are 65" long overall with a 14" leg and constructed from 1-5/8" x .134" wall mild steel tubing.



### Mini Stock Roll Cage Kits

Cage kits are designed with safety in mind for mini enduro and four cylinder classes and feature pre-cut and formed tubing specifically for the vehicles listed. Kits are constructed of .109" wall x 1-3/4" mild steel tubing and include a main hoop, halo, windshield posts, front and rear dash bars, three door bars for the left side, and a Z-bar for the right side. Kits also include the components to build a sturdy foundation for installing the main cage, similar to the ALL22650 Welding required.



ALL22097

Kit Shown Assembled

**ALL22096** .... Honda Civic

**ALL22097** .... Dodge Neon

**ALL22098** .... Ford Focus

#### Replacement Component

**ALL99466** ..... Door Bar for Civic

**ALL22114** ..... Door Bar for Neon

**ALL99468** ..... Door Bar for Focus

### Roll Cage Kit for Ford Escort

#### **ALL22104**

Designed with safety in mind for mini enduro and four cylinder classes. Universal design is built for two or four door 1991-2002 Ford Escort bodies. Kit is constructed of .095" wall 1-3/4" mild steel tubing and includes a main hoop, halo, windshield posts, front and rear dash bars, three door bars for the left side, and a Z-bar for the right side. Also included are two lengths of 1-3/4" tubing to weld to the factory pinch welds and two lengths of 1-1/2" tubing to connect the two sides, creating a solid foundation for the cage and seat mount.



Kit Shown Assembled

#### Replacement Component

**ALL22113** ..... Door Bar

### Mini Stock Roll Cage Installation Kit **ALL22650**

Universal installation kit for mini stock or front wheel drive cars provides a solid base or foundation to mount a roll cage. Kit includes two 60" long 2" x 2" square outside rails, two 54" long 1-3/4" round support tubes for securely mounting the cage and an additional foot area support.





## Deluxe Roll Cage Kits

Kits include all pieces to assemble a Deluxe Roll Cage. Main hoop is fitted and tack welded together allowing for changes or custom seat mounts. Curved windshield posts fit closer to windshield pillar to increase driver visibility. Halo is curved and gusseted into the main hoop for maximum width, driver clearance and support. Mild 1-3/4" x .109" wall steel tubing is notched and has uniform bends. Other features include four curved and one straight driver's side door bars, "Z" type right side door bars, additional lower cross bar added to main hoop for added side support and assist in seat mounting, and a center halo support.

**ALL22100** .... '78-88 GM Metric Chassis (Monte Carlo, Regal, Etc.) '70-81 Camaro/Firebird

**ALL22102** .... '70-77 Monte Carlo, Chevelle, Malibu, Etc.

**ALL22105** .... '77-90 Caprice/Impala

**ALL22106** .... '79-93 Mini Stock Mustang



Kit Shown Assembled

## Offset Deluxe Roll Cage Kit

Ideal for use with template style or ABC bodies. Perimeter frame mount roll cage has the same features as other Allstar deluxe kits but includes an offset main hoop and a narrow halo for cars with an offset body or narrow roof.

**ALL22109** .... Offset Kit 54" Wide Frame

**ALL22099** .... Offset Kit 57" Wide Frame



Kit Shown Assembled

## Universal Support Bars

Support bars add extra strength w/ needed by creating a triangular joint or gusset. Bars are constructed of .109" mild steel 1-3/4" tubing that is pre-notched for proper fitment between most right-angle joints of 1-3/4" tubing, often added to the foot box area or when adding main hoop supports to the frame if permitted. Sold in pairs.

**ALL22680** .... 6"

**ALL22682** .... 12"

**ALL22684** .... 24"



## Standard Roll Cage Kits

Kits include all pieces to assemble a standard cage. Mild steel tubing is 1-3/4" x .109" wall, is notched and has uniform bends. Four driver's side curved door bars, "Z" type right side door bar and gussets are included.

**ALL22101** .... '78-88 GM Metric Chassis (Monte Carlo, Regal, Etc.)

'70-81 Camaro/Firebird

**ALL22103** .... '70-77 Monte Carlo, Chevelle, Malibu, Etc.

**ALL22107** .... Mini Stock Universal



Kit Shown Assembled

## Roll Cage Kit for Crown Vic

**ALL22095**

Kit includes all pieces to assemble a roll cage for 1992-2012 Ford Crown Victoria models that is specially designed with safety in mind. Kit is constructed of 1-3/4" x .109" wall mild steel tubing which is pre-notched and has uniform bends for easy assembly. Features include a main hoop with diagonal reinforcing bars that are tack welded together allowing for changes or custom seat mounts, halo center support, halo support gussets, A-pillar support bars, dash bar support bars, passenger side horizontal and diagonal door bars and four driver's side curved and one straight door bars. Note: Additional curved bars and spacers may be purchased separately for added safety if rules permit.



Kit Shown Assembled

## Replacement Components

**ALL22114** ..... Door Bar

**ALL22116** ..... Door Bar Spacer

## A-Pillar Support Bars **ALL22678**

Bars add extra support to the windshield post of our Standard and Deluxe roll cage kits by creating a triangular joint in this area. Support bars are constructed of .109" mild steel 1-3/4" tubing that is pre-notched for proper fitment between the windshield post and the top door bar.



### Curved Door Bar **ALL22114**

Curved door bar is constructed of 1-3/4" O.D. x .109" wall mild steel tubing and is the same door bar included in Allstar's Standard and Deluxe roll cage kits. Bar is notched to fit between two vertical posts spaced 43" on center and adds approximately 6" to the width of the cage.



### Door Bar Spacers

Spacers fit between two door bars for added support and to equally space door bars apart. Constructed of 1-3/4" O.D. x .109" wall mild steel tubing.



**ALL22115**..... 4" Spacer, spaces door bars 3" apart.  
**ALL22116**..... 5" Spacer, spaces door bars 4" apart.

### Swing-Out Door Bar Kit **ALL22670**

Kit includes hardware and mounting brackets needed when installing a swing out style door bar on roll bar equipped car. Kit includes mild steel brackets, spacers, quick release T-handle pin, and mounting hardware.



### Door Plate

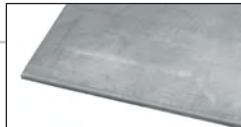
Plates are designed to be welded between the driver's side door bars. Plates may also be used to box "C"-type frame rails to add support and strength at critical roll cage mounting points. Plate is 1/8" thick x 48" long to meet requirements mandated by most sanctioning bodies and tracks.



**ALL22118**..... 4" x 48"  
**ALL22122** .... 5" x 48"

### Steel Plate

Steel plate is useful for many building projects or fabricating brackets. 10 gauge (1/8" thick) mild Steel plate is ideal for adding a protective cover to the driver's side door or door bar area of circle track cars.



**ALL54070** .... 18" x 26"  
**ALL54071** .... 24" x 24"  
**ALL54072** .... 24" x 36"

### Door Bar Clamp **ALL14198**

Clamp fastens around a 1-1/2" door bar, allowing a steel door plate to be mounted to the outside of the door bar area. Clamp eliminates the need to weld mounting tabs or door plate directly to a finished chassis. Sold each and includes 1/2" mounting hardware.



### Windshield Support Bar **ALL22675**

The windshield support bar is installed centered between the dash bar and halo bar to provide extra support to the halo bar and provide additional frontal protection to the windshield area. This style of bar is often referred to as an "Earnhardt Bar" and mandated in many classes due to the added support and safety it provides when properly installed. The bar is constructed of .109" mild steel 1-3/4" tubing that is formed and notched for the halo bar on one end for easier installation.



### Crown Vic Seat Mount Kit

#### **ALL22126**

Kit includes pre-bent and notched tubes to build the lower portion of a seat mount kit for our Crown Vic and Deluxe roll cage kits or other kits that use the LH straight lower door and cross bar located on the main hoop. Mount kit is constructed of 1-1/4" x .120" wall tubing and includes gusset style lower seat mounting tabs and seatbelt mounting tabs.



### Universal Seat Mount Kit

#### **ALL22110**

1-1/2" diameter x .095" wall mild steel tubing attaches to roll cage, to safely and effectively mount a seat. Use with Allstar roll cage kits. Kit is sold unassembled and requires welding.



### Seat Mount Brackets

Made from 1/8" thick mild steel. Upper bracket is angled to fit against the back of most aluminum racing seats. Two-piece design allows front-to-back and side-to-side adjustment. Upper mount brackets may be bolted or welded. Lower mount welds to 1-1/2" or 1-3/4" tubing.

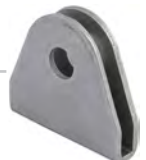


**ALL60032** .... Upper, 2-Piece  
**ALL60033** .... Lower

### Double-Shear Seat Belt Tab

#### **ALL60031**

Bracket welds to chassis for solid seat belt mount to the chassis, yet still able to pivot. Double-shear design provides twice the strength of a single tab style mount. Steel bracket accepts 1/2" hardware.



## Universal Front Hoop

### ALL22108

Front support kit adds strength to the front section of race car by reducing excessive flex. Pre-cut and notched pieces of 1-3/4" x .095" wall mild steel tubing fasten to the existing roll cage and extend to the front of the chassis to strengthen vulnerable steering and radiator areas. Lower radiator mounting brackets are included. Kit requires the addition of two front arch supports (ALL22119) sold separately to complete installation. Some modifications may be required for installation.



## Front Arch Support

### ALL22119

Arch supports are required when installing Allstar front support kits. They add strength to suspension mounting area and create mounting points for shock brackets. Arches are constructed of 1-3/4" x .095" wall mild steel tubing, 24" wide at the mounting points and 16" tall but may be trimmed to fit many applications. Sold each.



## Narrow Front Arch Support

### ALL22645

Arch supports replace the front arches found on many asphalt late models and modifieds or when fabricating a new chassis. Narrow triangular design arches are constructed of 1-3/4" x .095" wall, D.O.M. steel tubing, are 30" wide at the mounting points and 17" tall, but may be trimmed to fit many applications. Sold as a pair\*.

\*LH support features a small kick out for added header clearance.



## Universal Strut Bars

Strut bars increase the rigidity and strength of a chassis to help eliminate flex and increase safety. Bars are constructed from .095" wall mild steel tubing to fit a variety of applications measuring 65" long overall with a 14" leg. Sold in pairs.

ALL22641 .... 1-1/2" x .095"

ALL22643 .... 1-3/4" x .095"



## Universal Front Hoops

Universal front hoops come in 3 widths to fit a variety of mini stock chassis. Mild steel tubing is 1-1/2" x .083".



Part No.	Overall Width	Overall Length
ALL22652	40-1/2"	28"
ALL22653	46-1/2"	25"
ALL22654	51-1/4"	28"

## Universal Rear Support

### ALL22112

Rear support adds strength to the rear section of race car by reducing excessive flex. Kit includes pre-cut and notched pieces of 1-3/4" x .095" wall mild steel tubing which fasten to the existing roll cage and extend to the rear of the chassis. Some modifications may be required for installation.



## Frame Repair Plate for Metric Chassis ALL60085

1/8" steel rear frame plate fits 1978-88 GM metric cars. Plate is cut to fit stock frames and measures 4-1/4" x 27".



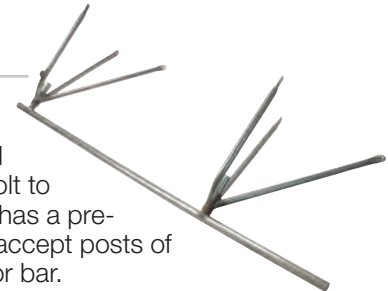
## Door Bar Components for Rocket Dirt Late Models

ALL22390/22391 three-point door bar mounts are constructed of 1" steel tubing and bolt to the frame. Each mount has a pre-welded sleeve sized to accept posts of the ALL22392 steel door bar.

ALL22390 .... Front Door Bar Mount

ALL22391 .... Rear Door Bar Mount

ALL22392 .... Right Door Bar, 60"L x 1-1/4"



## Right Hand Jack Post Kit ALL22111

Bolt-on kit fits most Howe, Port City, Lefthander, Finish Line, and other offset chassis requiring a jack post to raise vehicle. Includes an assembled bar loop with lift post and pre-cut mounting bars to be welded in place. The mounting bars then bolt to chassis tabs (not included) for removal and installation.





### Steering Column Brackets

Stamped-steel brackets weld to dash bars to create a mounting point for steering shaft when using a 3/4" oversized rod end. Brackets are 3-1/8" wide and available in a variety of lengths to fit most applications. 4" and longer brackets are pre-notched for 1-1/2" dash bars but are easily modified to fit other size bars.



- ALL52120**..... 2-1/2" Long
- ALL52122**..... 4" Long
- ALL52124**..... 8" Long
- ALL52126**..... 10" Long

### Steering Shaft Rod End Mounting Tab

#### ALL52133

Gusseted weld-on tab provides an excellent mounting point for the 3/4" oversized rod end (ALL52132) when building custom steering shaft assemblies. Tab is designed to cradle into round chassis tubing with built-in gussets adding strength and reducing flex.



#### Related Component

**ALL52132**..... Oversized 3/4" Rod End Kit



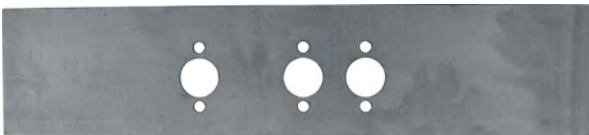
### Steering Quickener Bracket

#### ALL60028

Mounts all popular steering quickeners including AFCO, Coleman, Howe, and others. Bracket has two holes, spaced 1-3/4" apart, and may be welded to 1-1/2" or 1-3/4" diameter tubing.



### Floor Pedal Plate ALL54050



Weld-in pedal plate is 23" x 5" x 1/8" and speeds up race car construction by providing the proper spacing for mounting pedal/master cylinder assemblies.

### Hanging Brake Pedal Mount

#### ALL54060

Welds to chassis to mount Wilwood and Tilton style hanging pedals. Notched to clear balance bar.



### Tubing Notcher ALL10411

Notcher works with most standard hole saws to create a notch on the end of round tubing for properly attaching round tubing to round tubing, often used when building roll cages, bumpers or custom chassis. Notcher features an adjustable holding fixture which automatically centers tubing to create a notch from 90-45 degrees in tubing up to 2". Notcher is commonly clamped into a bench vise or bench mounted and used with a hand drill.



Note: Hole saw used should be the size of tube accepting notched tube.

#### Replacement Component

**ALL10402**..... 5/8"-18 Thread Adapter

Note: Tubing notcher includes a 1/2"-20 arbor thread and 5/8"-18 adapter. Most hole saws up to 1-1/8" diameter use 1/2"-20, larger hole saws use 5/8"-18 thread.



### Hole Saw Set ALL10412

Use with tubing notchers. Does not include an arbor for a hand drill. Set includes one of each size: 3/4", 1", 1-1/4", 1-1/2", 1-5/8", and 1-3/4". Hole saws up to 1" diameter use 1/2"-20 thread; larger hole saws use 5/8"-18 thread.



#### Individual Hole Saws

- ALL10413** ..... 3/4"
- ALL10414** ..... 1"
- ALL10416** ..... 1-1/4"
- ALL10417** ..... 1-1/2"
- ALL10418** ..... 1-5/8"
- ALL10419** ..... 1-3/4"

Note: Hole saws up to 1" diameter use 1/2"-20 thread, larger hole saws use 5/8"-18 thread.



Ken Schrader



Mike Marljar

**NEW LENGTHS FOR REDUCED SHIPPING COSTS COMPARED TO 8FT. LENGTHS WITH OVERSIZE FEES**



## Mild Steel Tubing

Sold only in pre-cut lengths. Always check wall thickness tolerance before cutting or welding, especially if the car is to be certified. Tubing wall thickness will vary.



### Round Mild Steel Tubing

Description	4' Length	7.5' Length	12' Length	19' or 20' Length
3/8" x .065"	ALL22117-4	ALL22117-7	ALL22117-12	-
1/2" x .065"	ALL22120-4	ALL22120-7	ALL22120-12	ALL22120-20
3/4" x .065"	ALL22124-4	ALL22124-7	ALL22124-12	ALL22124-19
1" x .065"	ALL22128-4	ALL22128-7	ALL22128-12	ALL22128-20
1" x .083"	ALL22129-4	ALL22129-7	ALL22129-12	ALL22129-20
1-1/4" x .083"	ALL22132-4	ALL22132-7	ALL22132-12	ALL22132-20
1-1/4" x .120"	ALL22134-4	ALL22134-7	ALL22134-12	ALL22134-20
1-1/2" x .065"	ALL22136-4	ALL22136-7	ALL22136-12	ALL22136-20
1-1/2" x .083"	ALL22130-4	ALL22130-7	ALL22130-12	ALL22130-20
1-1/2" x .095"	ALL22138-4	ALL22138-7	ALL22138-12	ALL22138-20
1-1/2" x .120"	ALL22137-4	ALL22137-7	ALL22137-12	ALL22137-20
1-5/8" x .120"	ALL22139-4	ALL22139-7	ALL22139-12	-
1-5/8" x .134"	-	ALL22141-7	ALL22141-12	-
1-3/4" x .065"	ALL22144-4	ALL22144-7	ALL22144-12	ALL22144-20
1-3/4" x .095"	ALL22146-4	ALL22146-7	ALL22146-12	ALL22146-20
1-3/4" x .109"	ALL22149-4	ALL22149-7	ALL22149-12	ALL22149-20
1-3/4" x .134"	-	ALL22148-7	ALL22148-12	-



### Round D.O.M. Mild Steel Tubing

Description	4' Length	7.5' Length	12' Length	17' or 20' Length
1" x .120**	ALL22127-4	ALL22127-7	ALL22127-12	ALL22127-(17 or 20) <sup>†</sup>
1-1/2" x .083**	ALL22133-4	ALL22133-7	ALL22133-12	ALL22133-(17 or 20) <sup>†</sup>
1-1/2" x .095**	ALL22135-4	ALL22135-7	ALL22135-12	ALL22135-17 <sup>†</sup>
1-5/8" x .120**	ALL22140-4	ALL22140-7	ALL22140-12	ALL22140-17 <sup>†</sup>
1-3/4" x .095**	ALL22145-4	ALL22145-7	ALL22145-12	ALL22145-17 <sup>†</sup>
1-3/4" x .120**	ALL22147-4	ALL22147-7	ALL22147-12	ALL22147-17 <sup>†</sup>

\*Tubing is drawn over mandrel (D.O.M.) and has tighter wall thickness tolerance.

†Length is determined by mill run. Call for availability.



### Square Mild Steel Tubing

Description	4' Length	7.5' Length	12' Length	19' or 20' Length
1/2" x .065"	ALL22160-4	ALL22160-7	ALL22160-12	ALL22160-20
3/4" x .049"	ALL22163-4	ALL22163-7	ALL22163-12	-
3/4" x .065"	ALL22164-4	ALL22164-7	ALL22164-12	ALL22164-19
1" x .083"	ALL22169-4	ALL22169-7	ALL22169-12	ALL22169-20
1-1/2" x .083"	ALL22175-4	ALL22175-7	ALL22175-12	ALL22175-20
2" x .083"	ALL22182-4	ALL22182-7	ALL22182-12	ALL22182-20



### Rectangular Mild Steel (1018)

Description	4' Length	7.5' Length	12' Length	20' Length
1" x 2" x .120"	ALL22183-4	ALL22183-7	ALL22183-12	ALL22183-20
2" x 3" x .083"	ALL22184-4	ALL22184-7	ALL22184-12	ALL22184-20

**12 FT. AND LONGER LENGTHS FOR LOCAL PICKUP ONLY!**

**NEW LENGTHS FOR REDUCED SHIPPING COSTS COMPARED TO 8FT. LENGTHS WITH OVERSIZE FEES**



## Round Chrome Moly Steel Tubing (4130N)

Sold only in pre-cut lengths. Always check wall thickness tolerance before cutting or welding, especially if the car is to be certified. Tubing wall thickness will vary.



Description	4' Length	7.5' Length	12' Length	17', 19' or 20' Length
1/4" x .035"	ALL22000-4	ALL22000-7	ALL22000-12	-
3/8" x .058"	ALL22005-4	ALL22005-7	-	-
1/2" x .049"	ALL22010-4	ALL22010-7	-	-
1/2" x .058"	ALL22012-4	ALL22012-7	-	-
5/8" x .049"	ALL22015-4	ALL22015-7	-	-
5/8" x .058"	ALL22017-4	ALL22017-7	-	-
3/4" x .049"	ALL22020-4	ALL22020-7	ALL22020-12	-
3/4" x .058"	ALL22022-4	ALL22022-7	ALL22022-12	ALL22022-20†
3/4" x .095"	ALL22024-4	ALL22024-7	-	-
3/4" x .120"	ALL22026-4	ALL22026-7	-	-
7/8" x .058"	ALL22030-4	ALL22030-7	ALL22030-12	-
7/8" x .095"	ALL22032-4	ALL22032-7	-	-
1" x .049"	ALL22040-4	ALL22040-7	ALL22040-12	-
1" x .058"	ALL22042-4	ALL22042-7	ALL22042-12	-
1" x .065"	ALL22044-4	ALL22044-7	ALL22044-12	ALL22044-17†
1" x .083"	ALL22045-4	ALL22045-7	-	-
1" x .095"	ALL22046-4	ALL22046-7	-	ALL22046-20†
1-1/8" x .058"	ALL22050-4	ALL22050-7	ALL22050-12	-
1-1/8" x .083"	ALL22054-4	ALL22054-7	ALL22054-12	-
1-1/4" x .058"	ALL22060-4	ALL22060-7	ALL22060-12	ALL22060-20†
1-1/4" x .065"	ALL22062-4	ALL22062-7	ALL22062-12	ALL22062-20†
1-1/4" x .083"	ALL22061-4	ALL22061-7	ALL22061-12	ALL22061-19†
1-1/4" x .095"	ALL22063-4	ALL22063-7	ALL22063-12	ALL22063-20†
1-1/4" x .120"	ALL22064-4	ALL22064-7	-	-
1-3/8" x .058"	ALL22070-4	ALL22070-7	-	-
1-3/8" x .095"	ALL22072-4	ALL22072-7	-	-
1-1/2" x .049"	ALL22079-4	ALL22079-7	-	-
1-1/2" x .058"	ALL22080-4	ALL22080-7	-	-
1-1/2" x .065"	ALL22082-4	ALL22082-7	ALL22082-12	-
1-1/2" x .083"	ALL22084-4	ALL22084-7	ALL22084-12	ALL22084-17†
1-1/2" x .095"	ALL22086-4	ALL22086-7	ALL22086-12	-
1-5/8" x .083"	ALL22090-4	ALL22090-7	ALL22090-12	ALL22090-17†
1-3/4" x .083"	ALL22093-4	ALL22093-7	ALL22093-12	ALL22093-20

†Length is determined by mill run. Please call for availability.

## Threaded Tubing Ends

Chrome moly 4130 steel tubing ends are ideal for building custom length suspension tubes. Available in RH and LH threads.



Thread Size	Tubing Size	Tube End Insert O.D.	RH Part No.	LH Part No.
10-32	3/8" x .058"	.259"	ALL22500	-
5/16"-24	1/2" x .058"	.384"	ALL22504	-
3/8"-24	5/8" x .058"	.509"	ALL22508	ALL22509
3/8"-24	3/4" x .058"	.634"	ALL22512	ALL22513
1/2"-20	7/8" x .058"	.759"	ALL22518	ALL22519
1/2"-20	1" x .058"	.884"	ALL22522	ALL22523
1/2"-20	1" x .065"	.870"	ALL22526	ALL22527
1/2"-20	1-1/8" x .058"	1.00"	ALL22530	ALL22531
5/8"-18	1" x .058"	.884"	ALL22534	ALL22535
5/8"-18	1" x .095"	.810"	ALL22538	ALL22539
5/8"-18	1-1/4" x .095"	1.060"	ALL22542	ALL22543‡
5/8"-18	1-1/4" x .120"	1.010"	ALL22546	ALL22547‡
3/4"-16	1-1/4" x .065"	1.120"	ALL22548	ALL22549‡
3/4"-16	1-1/4" x .095"	1.060"	ALL22550	ALL22551‡
3/4"-16	1-1/4" x .120"	1.010"	ALL22554	ALL22555‡
3/4"-16	1-3/8" x .095"	1.185"	ALL22558	ALL22559‡

‡Tube end has built-in hex for adjusting.

**12 FT. AND LONGER LENGTHS FOR LOCAL PICKUP ONLY!**

**CHASSIS**





### Reinforced Aluminum Angle, 120°

Aluminum angle has many uses including strengthening body panels and providing a mounting point for strapping or body braces, typically used on the lower section of rear quarter panels and doors. The reinforced design adds additional strength over standard 120° angle with an extra bend which also allows easier access to body brace bolts. Angle allows supports or braces to angle upward toward the chassis. Angle is 1/8" thick x 1-1/2" wide and has predrilled 1/4" holes on 1" centers.



- ALL23140**..... 26" Long
- ALL23140-5**..... 26" Long, 5-Pack
- ALL23141**..... 30" Long
- ALL23141-5**..... 30" Long, 5-Pack
- ALL23142**..... 66" Long
- ALL23142-5**..... 66" Long, 5-Pack

### Aluminum Angle, 120°

Aluminum angle has many uses including strengthening body panels and providing a mounting point for strapping or body braces, typically used on the lower section of rear quarter panels. 120° angle allows supports or braces to angle upward toward the chassis. Angle is 1/8" thick x 1" wide and has pre-drilled 1/4" holes on 1" centers.



- ALL23130**..... 26" Long
- ALL23130-5**. 26" Long, 5-Pack
- ALL23131**..... 30" Long
- ALL23131-5** . 30" Long, 5-Pack
- ALL23132**..... 66" Long
- ALL23132-5**. 66" Long, 5-Pack

### Aluminum Angle, 90°

Aluminum angle has many uses including strengthening body panels and providing a mounting point for strapping or body braces, typically used on the upper section of rear quarter panels and door panels. 90° angle allows supports or braces to fasten directly to the chassis. Angle is 1/8" thick x 1" wide and has pre-drilled 1/4" holes on 1" centers.



- ALL23134**..... 26" Long
- ALL23134-5**. 26" Long, 5-Pack
- ALL23135**..... 30" Long
- ALL23135-5**. 30" Long, 5-Pack
- ALL23138**..... 66" Long
- ALL23138-5**. 66" Long, 5-Pack

### Slotted Aluminum Angle, 90°

#### ALL23124

Slotted angle aluminum brace connects and strengthens body panels. Brace is 1/8" thick x 1"W x 72"L with 3/8" x 5/8" slots. Ideal for use along tops of spoilers.



### Aluminum Flat Stock

6063-T5 aluminum at stock is ideal for fabricating mounting brackets, etc.



Description	4' Length	7.5' Length	12' Length	16' Length
<b>Flat Stock 1" Wide</b>				
1/8" Thick	<b>ALL22250-4</b>	<b>ALL22250-7</b>	<b>ALL22250-12</b>	<b>ALL22250-16</b>
3/16" Thick	<b>ALL22251-4</b>	<b>ALL22251-7</b>	<b>ALL22251-12</b>	<b>ALL22251-16</b>

### Aluminum Angled Stock

1" x 1" 6063-T5 aluminum stock is ideal for fabricating mounting brackets, etc.



Description	4' Length	7.5' Length	16' Length
1" x 1" x 1/16" Thick	<b>ALL22253-4</b>	<b>ALL22253-7</b>	<b>ALL22253-16</b>
1" x 1" x 1/8" Thick	<b>ALL22254-4</b>	<b>ALL22254-7</b>	<b>ALL22254-16</b>
1" x 1" x 3/16" Thick	<b>ALL22255-4</b>	<b>ALL22255-7</b>	<b>ALL22255-16</b>

### Aluminum Square and Rectangular Tubing

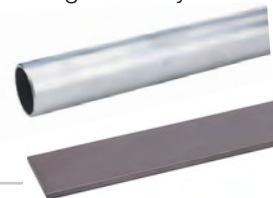
Tubing is 6063-T5 grade alloy with .125" wall thickness. Ideal for fabricating rub rails or building shop, trailer or pit equipment like ladders, pit carts and tire racks.



Description	4' Length	7.5' Length	12' Length	20' Length
<b>Square</b>				
3/4" x 3/4"	<b>ALL22256-4</b>	<b>ALL22256-7</b>	<b>ALL22256-12</b>	<b>ALL22256-20</b>
1" x 1"	<b>ALL22257-4</b>	<b>ALL22257-7</b>	<b>ALL22257-12</b>	<b>ALL22257-20</b>
<b>Rectangular</b>				
1" x 2"	<b>ALL22258-4</b>	<b>ALL22258-7</b>	<b>ALL22258-12</b>	-

### Aluminum Round Tubing

Round 1-1/2" x .083" tubing is 6061-T6 grade alloy which is ideal for building bumpers.



- ALL22085-4** .....4' Length
- ALL22085-7** .....7.5' Length
- ALL22085-12**.....12' Length

### Steel Flat Stock

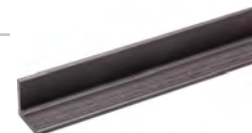
Steel at stock is ideal for building projects around the shop or creating supports when needed. Standard grade steel has excellent welding characteristics and is easily cut and shaped.



Description	4' Length	7.5' Length	12' Length
1" x 1/8"	<b>ALL22150-4</b>	<b>ALL22150-7</b>	<b>ALL22150-12</b>
1" x 3/16"	<b>ALL22151-4</b>	<b>ALL22151-7</b>	<b>ALL22151-12</b>
1-1/2" x 1/8"	<b>ALL22152-4</b>	<b>ALL22152-7</b>	<b>ALL22152-12</b>
2" x 1/8"	<b>ALL22154-4</b>	<b>ALL22154-7</b>	<b>ALL22154-12</b>
2" x 3/16"	<b>ALL22155-4</b>	<b>ALL22155-7</b>	<b>ALL22155-12</b>

### Steel Angled Stock

Steel angled stock is ideal for building projects around the shop or creating supports when needed. Standard grade steel has excellent welding characteristics and is easily cut and shaped.



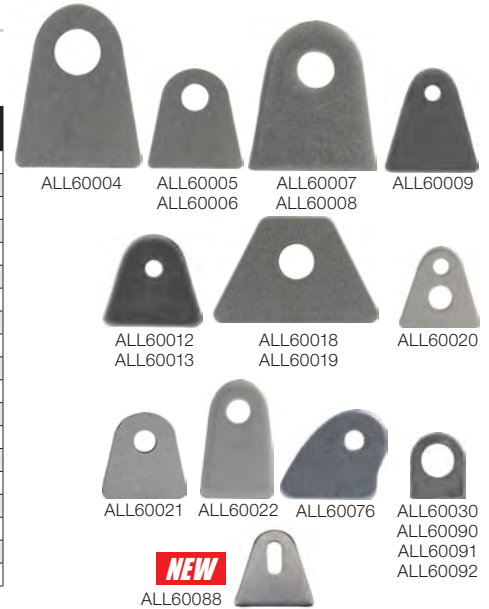
Description	4' Length	7.5' Length	12' Length
1" x 1" x 1/8"	<b>ALL22156-4</b>	<b>ALL22156-7</b>	<b>ALL22156-12</b>
1-1/2" x 1-1/2" x 1/8"	<b>ALL22157-4</b>	<b>ALL22157-7</b>	<b>ALL22157-12</b>
2" x 2" x 1/8"	<b>ALL22158-4</b>	<b>ALL22158-7</b>	<b>ALL22158-12</b>

**12 FT. AND LONGER LENGTHS FOR LOCAL PICKUP ONLY!**

## Flat Tabs

Mild steel flat tabs have a straight edge and can be welded to round tubing, square tubing or flat plate.

Part No.	Description	Quantity Per Pack	Thickness	Overall Height	Center Of Hole Height	Hole Diameter
ALL60004	1/8" Tab, 5/8" Hole	4	1/8"	2-5/16"	1-11/16"	5/8"
ALL60005	1/8" Tab, 1/2" Hole	4	1/8"	1-7/8"	1-5/16"	1/2"
ALL60006	3/16" Tab, 1/2" Hole	4	3/16"	1-7/8"	1-5/16"	1/2"
ALL60007	1/4" Tab, 3/8" Hole	4	1/4"	2"	1-3/8"	3/8"
ALL60008	1/4" Tab, 1/2" Hole	4	1/4"	2"	1-3/8"	1/2"
ALL60009	1/8" Tab, 1/4" Hole	4	1/8"	1-5/8"	1-1/4"	1/4"
ALL60012	1/8" Tab, 1/4" Hole	4	1/8"	1-7/16"	7/8"	1/4"
ALL60088	1/8" Tab, 1/4" Slotted Hole	4	1/8"	1-7/16"	7/8"	1/4" x 1/2"
ALL60013	1/8" Tab, 3/8" Hole	4	1/8"	1-7/16"	7/8"	3/8"
ALL60018	3/16" Seat Tab	4	3/16"	1-1/2"	7/8"	1/2"
ALL60019	1/4" Seat Tab	4	1/4"	1-1/2"	7/8"	1/2"
ALL60020	Window Frame Tab	10	1/16"	1"	3/4"	3/16"
ALL60021	Window Frame Tab	10	1/16"	3/4"	1/2"	3/16"
ALL60022	Bumper Tab	4	1/8"	1-1/4"	15/16"	1/4"
ALL60076	Chassis Tab	4	1/8"	1-3/4"	1-3/16"	3/8"
ALL60030	Mounting Tab	4	.100"	1-1/4"	3/4"	5/8"
ALL60090	Mounting Tab	4	.100"	1-1/4"	3/4"	3/8"
ALL60091	Mounting Tab	4	.100"	1-1/4"	3/4"	7/16"
ALL60092	Mounting Tab	4	.100"	1-1/4"	3/4"	9/16"



## Radius Tabs

Mild steel radius tabs have a contoured edge to fit various sizes of round tubing.

Part No.	Description	Quantity Per Pack	Thickness	Overall Height	Center Of Hole Height	Hole Dia.
ALL60000	3/16" Tab, No Hole	4	3/16"	2-3/8"	-	-
ALL60001	3/16" Tab, 3/8" Hole	4	3/16"	2-3/8"	1-3/4"	3/8"
ALL60002	3/16" Tab, 1/2" Hole	4	3/16"	2-3/8"	1-3/4"	1/2"
ALL60003	1/8" Tab, 1/4" Hole	4	1/8"	2"	15/16"	1/4"
ALL60010	1/8" Tab, 1/4" Hole	4	1/8"	1-1/8"	9/16"	1/4"
ALL60011	1/8" Tab, 3/8" Hole	4	1/8"	1-1/8"	9/16"	3/8"



## Gusset Tabs

Mild steel tabs have built-in gussets for added support. Choose tabs that mount parallel or perpendicular to tubing. Package of 4.

Part No.	Description	Thickness	Overall Height	Center Of Hole Height	Hole Dia.
ALL60014	Round Tube, 1/4" Hole	1/8"	1-1/2"	1"	1/4"
ALL60015	Round Tube, Slotted	1/8"	1-1/2"	7/8"	1/4" x 3/4"
ALL60016	Round Tube, 3/8" Hole	1/8"	1-3/4"	1-1/4"	3/8"
ALL60017	Round Tube, 1/2" Hole	1/8"	1-3/4"	1-1/4"	1/2"
ALL60041	Round Tube, 1/4" Hole	1/8"	1-3/4"	1-1/4"	1/4"
ALL60086	Round Tube, 1/4" Hole	.085"	1-7/16"	1-15/16"	1/4"
ALL60087	Round Tube, 1/4" Hole	1/8"	1-7/16"	1-15/16"	1/4"
ALL60024	Flat Mount, 3/8" Hole	.085"	1-9/16"	7/8"	3/8"
ALL60027	Flat Mount, 1/4" Hole	.085"	1-9/16"	7/8"	1/4"



## Universal Hood Pin Mount

### ALL60067

Universal bracket with 1/4" mounting holes can be bolted on or welded in place. Bracket accepts 1/2" hood pins to secure hood and deck lids along with many other uses. Constructed of .100" steel, bracket has a built-in reinforcing gusset for added strength.



## Universal Mounting Bracket ALL60072

Universal formed bracket is 1/8" thick and welds on for many uses, including a body mount when modifying or fabricating chassis or as a rear engine mount bracket when used with rear engine mounts. Bracket is 2-1/4"W x 6-1/2"L and may be drilled for a variety of uses.



## Universal Chassis Bracket

### ALL60068

Universal gusseted bracket is 3/16" thick and welds on for many uses including engine and body mounts. Bracket is 2-1/4" wide x 3-1/4" long and has a 1/2" hole located 1" from the end of the bracket.



## Brake Line Adapter Mounting Tabs

Secure brake line adapters or bulkhead fittings, or use as a mounting tab for a variety of uses.

- ALL60029.....Bolt-On with 5/8" Hole, 2-Pack
- ALL60030.....Weld-On with 5/8" Hole, 4-Pack
- ALL60092.....Weld-On with 9/16" Hole, 4-Pack
- ALL60091.....Weld-On with 7/16" Hole, 4-Pack
- ALL60090.....Weld-On with 3/8" Hole, 4-Pack

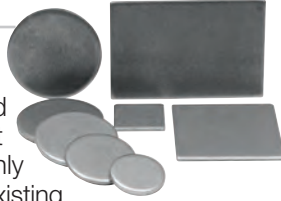


ALL60030  
ALL60090  
ALL60091  
ALL60092

ALL60029

## Tubing End Caps

Steel end caps weld to the end or inside of tubing to provide a clean look, prevent sharp exposed edges, and seal tubes to keep out dirt and debris. Caps are commonly used on ends of bumpers, to fill existing holes in frames and as a flat gusset when butt joining sections of square or rectangular tubing. Package of 10.



Part No.	Description	Thickness
<b>Round End Caps</b>		
ALL22280	7/8" O.D.	.125"
ALL22285	1" O.D.	.125"
ALL22281	1-1/4" O.D.	.125"
ALL22286	1-3/8" O.D.	.125"
ALL22282	1-1/2" O.D.	.125"
ALL22283	1-5/8" O.D.	.125"
ALL22287	1-11/16" O.D.	.125"
ALL22284	1-3/4" O.D.	.125"
<b>Square End Caps</b>		
ALL22290	1" x 1"	.085"
ALL22291	1-1/2" x 1-1/2"	.085"
ALL22292	2" x 2"	.085"
<b>Rectangle End Cap</b>		
ALL22294	2" x 3"	.085"

## Gussets

Gussets add support and strength to tubing joints when building roll cages or chassis mounts. Solid, one-, or three-hole gussets are 1-7/8" tall x 1/8" thick.



Description	10-Pack	100-Pack
Solid	ALL22192	ALL22192-100
With One Hole	ALL22194	ALL22194-100
With Three Holes	ALL22196	ALL22196-100

## Wrap-Around Gussets

Gussets fit 1.50" to 1.75" tubing and can be used to join tubing from 70° to 110°. Wrap-around gussets are 1/16" thick and provide more support and rigidity than a standard flat gusset.



ALL22199 ..... 10-Pack  
 ALL22199-50 ..... 50-Pack

## Rub Rail Flange ALL60023

Flanges are 3/16" thick and commonly used when building bolt-on style rub rails. Center hole accepts 1-1/4" tubing and has two 3/8" mounting holes spaced 2-1/4" apart. Package of 4.



## Charging Post Bracket ALL60064

Securely mount Allstar charging posts on vehicles where battery is not easily accessible. Pre-drilled holes allow quick mounting to frame or body. Double-D hole design positions posts close together, but provides enough room for charging or jumper cable clamps. Charging posts sold separately.



## Weld-On Nuts

Weld these steel nuts into a predrilled hole to provide a strong and easy method of bolting brackets or accessories to chassis. Nuts are often used when the back side of a fastener is not accessible and they allow quicker installation and/or removal of chassis components.



ALL18546

### 1/4"-20 Nut for 3/8" Hole

ALL18546 ..... (5/16" UHL), 4-Pack  
 ALL18546-25 ..... (5/16" UHL), 25-Pack

### 3/8"-16 Nut for 3/4" Hole

ALL18549 ..... Short (3/8" UHL), 4-Pack  
 ALL18549-25 ..... Short (3/8" UHL), 25-Pack  
 ALL18550 ..... Long (7/8" UHL), 4-Pack  
 ALL18550-25 ..... Long (7/8" UHL), 25-Pack

### 1/2"-13 Nut for 3/4" Hole

ALL18551 ..... Short (3/8" UHL), 4-Pack  
 ALL18551-25 ..... Short (3/8" UHL), 25-Pack  
 ALL18552 ..... Long (7/8" UHL), 4-Pack  
 ALL18552-25 ..... Long (7/8" UHL), 25-Pack

## Battery Boxes

Universal, lightweight steel battery boxes may be welded or bolted to the frame. Boxes are available in two sizes and include hold-down hardware.



ALL76100 ..... 12" Wide x 7-1/4" Deep  
 ALL76101 ..... 10" Wide x 7-1/4" Deep

## Battery Disconnect Switch Mounting Bracket ALL60365

The weld-on bracket provides a secure mounting location for most battery disconnect switches so they can be mounted directly to the cage within easy reach of the driver or track safety team in the event of an emergency. The bracket is pre-notched for welding to 1-1/2" round tubing and features a 5/8" mounting hole for most battery disconnect switches or our switch with panel.



## Remote Starter Button Shroud Kits

Kit mounts a remote starter button directly to chassis tubing. Kit includes a shroud to help protect against accidental activation, tab, and starter button.

ALL60360 .... Welded Kit  
 ALL60361 .... Un-welded Kit



ALL60361





### Coil Spring Spacer **ALL56116**

Spacer for 5" racing spring welds into spring pocket, enabling chassis adjustments on street stock and other race cars that are not allowed to use weight jack bolts or threaded adjusters. 3" tall spacer may be cut to desired height before installation. Use coil shim spacers to make chassis adjustments.



- Related Components**  
**ALL56120**..... 3/16" Shim  
**ALL56121**..... 1/8" Shim

### Adjustable Coil Spring Spacers

Adjustable spacers for 5" racing springs weld into spring pockets, enabling chassis adjustments on street stock and other race cars that are not allowed to use weight jack bolts.

- ALL56118**..... Steel Adjuster  
**ALL56119**..... Steel Sleeve with Alum. Adj. Nut



ALL56118



ALL56119

### Weight Jack Bolt Collars

Steel collar typically welds onto frame or chassis for installation of a threaded jack bolt. Collar includes grease fitting.

- ALL56098** .... 1-1/8"-12  
**ALL56099** .... 1"-8



ALL56098

### Weight Jack Bolt Sleeves

Weld-in mild steel sleeve provides a mounting point for jack bolts or adjustable shock mounts. Sleeves are 2" long and have a 1-3/8" O.D. for welding onto chassis tubing.

- ALL56073** .... 1-1/8"-12  
**ALL56109** .... 1"-8



ALL56073

### Coarse Thread Nut with Sleeve

Steel coarse thread nut with sleeve has 1"-8 coarse threads.



### Weight Jack Plate **ALL56112**

Heavy-duty steel plate has a threaded boss welded to the center to accept jack bolts with 1"-8 coarse threads. O.D. is 5".



### Chassis Tie Down Brackets

Steel brackets weld to chassis and provide a secure mounting location to hook a tie-down strap or winch cable. Package of 2.



### Slotted Upper Control Arm Bracket Kit **ALL60077**

Kits contain (2) slotted brackets, (2) centered bushings, (2) reducer spacers for 5/8" rod end and a 1/2" bolt and nyloc nut. Offset aluminum bushings (sold separately) allow for plenty of adjustment options.



### Insert Bushings

- ALL60080** ..... Centered Bushings (Pair)  
**ALL60081** ..... 1/8" Offset Bushings (Pair)  
**ALL60082** ..... 1/4" Offset Bushings (Pair)  
**ALL60083** ..... 3/8" Offset Bushings (Pair)  
**ALL60084** ..... 1/2" Offset Bushings (Pair)

### Upper Control Arm Brackets

#### **ALL60025**

Stamped, 3/16" thick mild steel brackets weld to chassis to provide a mounting point for upper control arm. Brackets are sold in pairs and have two 5/8" mounting holes, spaced 7/8" apart for adjustment. May be trimmed to desired height.



### Upper Control Arm Bracket

#### **ALL60190**

Bracket is flame cut from 1/2" thick steel, with 6" bolt spacing. Welds to frame and accepts upper A-arm.



### Front Strut Mounting Bracket

#### **ALL60215**

Designed for use with any stud mount coil-over strut, mounting brackets attach to the front strut bars. Brackets are also flat for universal applications and may be bent to fit multiple configurations of tubes and angles on varying chassis options.



CJ Greaves

CHASSIS

## Weld-On Shock Brackets

Weld-on shock brackets mount standard and coil-over shocks with 1/2" I.D. inner bushing or 1/2" rod end to chassis as well as many other uses. 1/8" thick mild steel brackets include 1/2" bolt, spacer and locknut.

## Notched Tube Mount

Bracket is notched for 1-1/2" - 1-3/4" round tubing to create a gusset style mount that welds on three sides. Notched design positions the bracket perpendicular to the tubing at a 90° angle for straight mount and approximately a 75° angle for angled mounts.

## Straight Mount



- ALL60103**..... Short Single
- ALL60104**..... Long Single
- ALL60112**..... Long Two Position
- ALL60113**..... Extra Long Three Position

## Angle Mount



- ALL60100** .... Left-Hand Single
- ALL60101**..... Right-Hand Single

## Round Tube Mount

Bracket welds parallel onto tubing. Typically mounted above or below tubing and includes 1/2" shock mounting hardware. Mounting positions are on 1" centers.



- ALL60107**..... Single
- ALL60114**..... Two Position
- ALL60115**..... Three Position

## Flat Mount

Bracket mounts to a flat surface or square tubing.



- ALL60106** .... Single
- Replacement Components**
- ALL99100** .... Bolt, locknut, and bushing
- ALL99101**..... Bushing only

## Clamp-On Shock Brackets

Clamp-on shock brackets mount standard and coil-over shocks with 1/2" I.D. inner bushings to round tubing without welding. Easily add additional mount or pivot mount when experimenting or trying different set-ups. Standard brackets position the shock approximately 1" below the chassis tubing. Drop mount brackets position the shock approximately 2-1/2" below the chassis tubing. Brackets include mounting hardware with nyloc locking nuts.



## Clamp-On

**ALL60220** .... 1.75"

**ALL60221** .... 1.50"

**ALL60222** .... 1.25"

## Drop Mount Clamp-On

**ALL60225** .... 1.50"

## Upper Coil-Over Shock Mount Kit

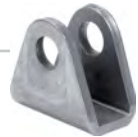
**ALL60230**

Weld-in kit provides a mounting point for rear coil-over shock mounts on tube, boxed or stock frames with up to 48" between frame rails. Great for drag racing and street applications, kit includes a 48" long, .120" wall x 1-1/2" mild steel tube, reinforced mounting tabs, 2" x 3" end plates and 1/2" hardware.



## 1/2" Rod End Mount **ALL60073**

3/16" thick steel mount with 1/2" holes accepts rod ends up to 5/8" wide. Mount is 1-5/8" tall overall.



## Track Bar Locator Brackets

Track bar locator brackets are an ideal bolt-on mounting point for rod ends commonly found on Panhard bars, track bars or rear axle housing track locators. Steel brackets are fabricated from 3/16" material and accept 1/2" rod ends.



**ALL60079** .... 5/8" Hole, 1" Spacing

**ALL60089** .... 3/4" Hole, 1-3/16" Spacing

## Wheelie Bar Wheel Bracket Kit

**ALL60500**

Wheelie bar wheel brackets are a great start to building a custom set of wheelie bars featuring double shear strut mounting tabs with two 3/8" holes. Kit accepts wheelie bar wheels up to 1.625" w x 4" diameter with a 3/8" I.D. axle. Welding is required.







### Lower Spring Cups

Steel spring cup has a 7" wide curved base that welds to the top of a 3" diameter rear end axle tube creating a flat mounting surface for a 5" O.D. racing springs. Commonly used to replace OE style "pigtail" lower spring mount. Sold each.

- ALL56124**..... Standard Cup
- ALL56123**..... Lightweight Cup



### Ford 9" Truss Support

#### ALL68330

Weld-on support adds strength to rear axle housing and reduces unwanted flex during extreme torque. Constructed of 12 gauge (.108") steel. 36" L x 2" W. Additional trimming required to properly fit housing.



### Leaf Spring Pad **ALL56126**

Steel pad welds to 3" diameter rear end axle tube when mounting rear end to most leaf springs. Pad is 2-1/2" W by 5-3/4" L and has a 5/8" center pilot hole. Sold each.



### Leaf Spring Slider Box

#### ALL60034

Replace rear leaf spring shackles with Allstar's leaf spring slider box. Bolt-in slider box with roller bearing design eliminates leaf spring binding, freeing up car. Fits 2-1/2" wide Chrysler type leaf springs.



#### Replacement Components

- ALL99055** .... Bushings, 2-Pack

### Leaf Spring Slider Box

#### ALL60035

Replace rear leaf spring shackles with Allstar's leaf spring slider box. Bolt-in slider box with roller bearing design eliminates leaf spring binding, freeing up car. Fits 2-1/2" wide Chrysler type leaf springs.



Jerrad Krick

### Panhard Bar/Third Link Brackets

Brackets have a built-in arch for adjustment of the Panhard bar or third link angle without changing the length of the arm. Brackets are 1/8" thick. Sold as a pair.

- ALL60162**..... 6-Hole Brackets with 1/2" Holes
- ALL60163**..... 6-Hole Brackets with 5/8" Holes
- ALL60165**..... 6-Hole Brackets with 3/4" Holes
- ALL60167**..... 5-Hole Brackets with 3/4" Holes



ALL60162 ALL60163 ALL60165 ALL60167

### Ford 9" Upper Link Brackets

Ford 9" housing brackets provide a mounting point for upper link. Weld-on brackets fit standard steel Ford housings.

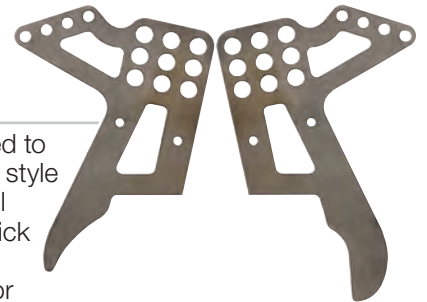


- ALL60160** .... 1" Diameter Holes, Sold in Pairs
- ALL60166** .... 3/4" Diameter Holes, Set of 2

### Ford 9" Upper Link Brackets

#### ALL60157

Brackets are designed to weld to most Ford 9" style center sections. Steel brackets are 3/16" thick and provide multiple mounting locations for 90/10 shock, upper link, third link or pull bar. Sold as a set.



### Upper Link Chassis Brackets

Weld-on brackets have curved 3/4" slots to maintain pinion angle as the 3rd link is raised or lowered. Both brackets are notched for 1-3/4" round tubing and are 3/16" thick.



- ALL60065** .... Short
- ALL60066** .... Long

### 90/10 Shock Brackets

#### ALL60026

Brackets weld to the chassis to mount a shock between the chassis and the differential to control "unloading" during deceleration of hard braking. 1/8" thick steel brackets fit 1-1/2" diameter tubing and have four 1/2" holes, spaced 1" apart. One pair.



CHASSIS

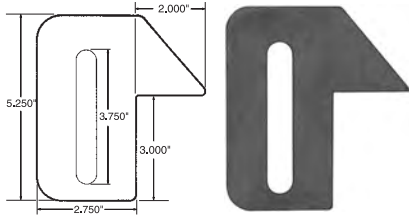


## Trailing Arm Brackets

Steel brackets can be used as front mount for leaf spring or trailing arm. Assorted styles are available. Sold each.

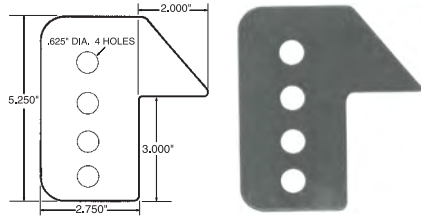
### ALL60043

5/8" slot, 3/16" thick, 3-3/4" long.



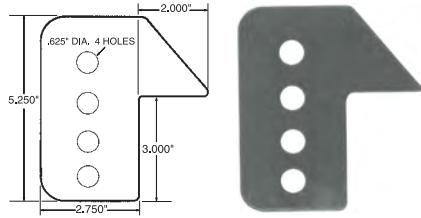
### ALL60044

3/4" slot, 3/16" thick, 3-3/4" long.



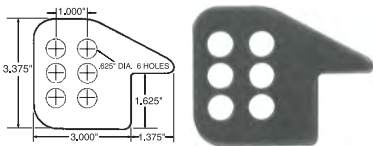
### ALL60045

5/8" holes, 1/8" thick.



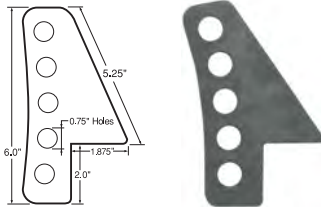
### ALL60046

5/8" holes, 3/16" thick.



### ALL60048

3/4" holes, 1/8" thick.



## Trailing Arm Bracket ALL60042

Weld-on bracket has a curved 3/4" slot so rear end remains square as the trailing arm is raised or lowered. Notched for 2" x 3" square tubing. 1/4" thick.



## Slider Boxes

Slider boxes weld to the chassis and provide an adjustable mount for trailing arms, Panhard bars and upper links. Boxes are constructed of .120" wall material and are 1-1/2" wide x 2-1/2" deep x 6" tall with a 4" slot that provides 3" of adjustment.

ALL60186 .... 4" x 1/2" Slot

ALL60188 .... 4" x 3/4" Slot



## Metric Upper Trailing Arm Mounts

### ALL60059

Mounts weld to the top of Ford 9" housing creating a mounting point for GM Metric chassis upper trailing arms. Bushings not included.



## GM Metric Chassis

### Trailing Arm Bracket Kits

Bracket kits include rear upper and lower trailing arm mounts that accept O.E. style bushings (included) and 1/2" hardware. Upper mount must be cut into two pieces (LH/RH) and trimmed to desired height depending upon where housing is located in the chassis.



ALL60052 .... Kit with Single Hole Lower (Stock Location)  
ALL99282 .... Lower Brackets Only, (Stock Hole Location)

ALL60053 .... Kit with Single Hole Lower, (1" Lowered)  
ALL99283 .... Lower Brackets Only, (1" Lowered)

ALL60054 .... Kit with Multi-Hole Lower (Stock to 4" Lowered)  
ALL99284 .... Lower Brackets Only, (Multi-Hole)

## Universal Trailing Arm Brackets

Brackets have three 1/2" mounting holes spaced 1-1/4" apart and may be welded to 3" axle tubes to provide three trailing arm mount locations. ALL60058 is made of 3/16" steel and welds to the top of the rear end housing, providing a point of attachment for upper trailing arms.



ALL60050 .... Lower Bracket

ALL60051 .... Shock Bracket for Lower

ALL60058 .... Upper Bracket

See Page 201 for Slider Box Accessories.

## Transmission Mount Bracket

**ALL38072**

May be welded to chassis to support manual or automatic transmissions. Steel bracket is 1/8" thick with 1" x 7/16" slots for mounting bolts.



## Unwelded Driveshaft

**Loop ALL69004**

Made from 3/16" flat steel, loop is 9-1/2" tall and 5-1/2" wide with a 16" wide mounting strap that can be cut and welded for each installation.



## 180° Driveshaft Loop ALL69002

Pre-bent 1" diameter x .083" wall mild steel tubing is designed for chassis style cars to help retain the driveshaft in the event of a U-joint failure. Loop is 10" tall overall and has a 5" I.D.



## Fuel Cell Mounting Bracket ALL60063

Steel bracket is radiused to fit 1-1/2" tubing and has (8) 3/8" holes on 1/2" centers. Bracket is .085" thick and 1-1/2" wide x 4-3/4" tall.



## Fuel Cell Mounting Brackets

Steel brackets are .125" thick, 1-3/4" wide and available in three lengths. All have 3/8" holes.

**ALL60060** ..... 2" Long  
**ALL60061** ..... 3" Long  
**ALL60062** ..... 4-3/4" Long



## Fuel Cell Guard ALL22374



Guard adds protection to the fuel cell and acts as a lifting point for rear of vehicle. Universal kit is constructed of 1-3/4" x .095" wall, mild steel tubing. Parts are pre-cut and notched, ready to be welded together. Height is 8-3/4" and mounting width is 42".

## Round Tank and Bottle Mount Brackets

Hinged aluminum bracket is uniquely designed to simplify tank installation and removal. Offered in a wide variety of sizes to fit many applications including NOS and fire bottles. Bracket base measures 1/2" wide x 3-1/4" long and feature a slot at bottom with two 1/4"-20 threaded mounting holes spaced 2-1/2" apart. Use with our Chassis Brackets (ALL14450-14459) when mounting to round chassis tubing.



Size	Polished	Black
2.00"	<b>ALL14408</b>	<b>ALL14409</b>
4.00"	<b>ALL14414</b>	<b>ALL14415</b>
4.25"	<b>ALL14418</b>	<b>ALL14419</b>
4.375"	<b>ALL14422</b>	<b>ALL14423</b>
5.25"	<b>ALL14430</b>	<b>ALL14431</b>
6.90"	<b>ALL14436</b>	<b>ALL14437</b>

## Neck Mount Brackets

Two-piece aluminum bottle mounting brackets are designed for 1.525" diameter necks. Bracket base measures 1/2" wide x 3-1/4" long and feature a slot at bottom with two 1/4"-20 threaded mounting holes spaced 2-1/2" apart. Use with our Chassis Brackets (ALL14450-14459) when mounting to round chassis tubing.



**ALL14474** ..... Polished Bracket  
**ALL14475** ..... Black Bracket

## Chassis Brackets

Aluminum 2-piece brackets are designed to clamp around chassis tubing and features two straight through mounting holes with 1/4"-20 hardware spaced 2-1/2" apart. Bracket base measures 1/2" wide x 3-1/4" long. Use with our Round Tank Brackets (ALL14408-ALL14437) and Neck Mount Brackets (ALL14474-ALL14475) or may be used to mount other items with a threaded mount.



Size	Polished	Black
1.00"	<b>ALL14450</b>	<b>ALL14451</b>
1.25"	<b>ALL14452</b>	<b>ALL14453</b>
1.50"	<b>ALL14454</b>	<b>ALL14455</b>
1.625"	<b>ALL14456</b>	<b>ALL14457</b>
1.725"	<b>ALL14458</b>	<b>ALL14459</b>

## Universal Brackets

Universal 1/4" thick aluminum brackets may be drilled and tapped to custom mount just about anything.



**ALL10452** ..... 1-1/4"  
**ALL10453** ..... 1-1/2"  
**ALL10454** ..... 1-3/4"  
**ALL10445** ..... Reducer Bushing 1-3/4" to 1-5/8"

## Accessory Clamps

Aluminum two-piece clamps are ideal for mounting small parts and accessories or creating an adjustable clamp-on mount for supporting body or roof panels. Clamps are 1/2" wide and include two 1/4" button head fasteners.



Size	With 1/4"-20 Mount	With 1/4"-20 Mount and a 1/4" Through Hole
1"	<b>ALL10455</b>	<b>ALL10485</b>
1-1/4"	<b>ALL10456</b>	<b>ALL10486</b>
1-3/8"	<b>ALL10457</b>	<b>ALL10487</b>
1-1/2"	<b>ALL10458</b>	<b>ALL10488</b>
1-5/8"	<b>ALL10460</b>	<b>ALL10489</b>
1-3/4"	<b>ALL10459</b>	<b>ALL10490</b>

## Half Clamp Brackets

Unique brackets are a must when clamping completely around tubing isn't possible. Bracket clamps just over halfway around tubing and tightens to create a secure mount for many accessories. 3" bracket can clamp to rear end axle tubes to neatly secure braided lines. Brackets have 3/8" mounting holes.



**ALL10464** ..... 1-1/4" **ALL10468** .... 1-3/4"  
**ALL10466** ..... 1-1/2" **ALL10470** ..... 3"

## Tube Clamps

2-piece tube clamp bolts to round tubing and provides a removable welding point for many uses. Clamps are constructed of 1/8" mild steel that is 2" wide. Includes two 3/8" grade 8 bolts with nyloc nuts.



**ALL14480** ..... 1" **ALL14485** .... 1-3/4"  
**ALL14481** ..... 1-1/4" **ALL14486** .... 2"  
**ALL14483** ..... 1-1/2"

## Scale Buddy ALL13115

The Scale Buddy is a water-filled bladder that may be placed directly into the seat of the car to represent the weight of the driver when setting up and scaling your racecar. Bladder may be filled and emptied in the car using a standard garden hose and weighs up to 100 lbs. when filled.

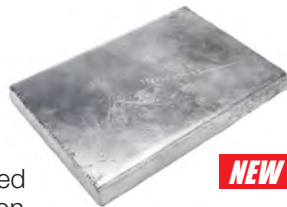


Note: Designed for set-up purposes only, not designed to be used as ballast during racing.

## Battery Box Ballast

**ALL14208**

Ballast weighs 25 lbs. and features a flat plate that is designed to fit in a battery box or a location where a larger brick may not be an option. Ballast measures 9-1/2" x 6-3/4" x 1" tall.



## Ballast

Add weight where it's needed. Sizes listed are approximate.

**ALL14176** ..... 2.5 lbs. 3-1/2" Round x 3/4" Tall\*  
**ALL14177** ..... 5 lbs. 3-1/2" Round x 1-3/8" Tall\*  
**ALL14180** ..... 25 lbs. 4" x 8" x 2"  
**ALL14179** ..... 30 lbs. 2-1/2" x 2-1/2" x 12"  
**ALL14182** ..... 40 lbs. 12" x 3-1/2" x 2-3/4"



\*Pre-drilled with 1/2" Mounting Hole

## Clamp-On 10-lb. Ballast ALL14205

Designed for safely adding weight to small tube chassis found on mini wedges, mini sprints or jr dragsters. Clamp-on design is formed of two halves which bolt together around 1" to 1-1/4" round tubing. Mounting hardware included.



## Clamp-On 25-lb. Ballast ALL14181

Securely add weight where it's needed. Clamp-on design is formed of two halves which bolt together around 1" to 1-3/4" round tubing, allowing easy installation and removal. Bolts are included for use on tubing up to 1-5/8". When clamping to 1-3/4" tubing, longer bolts (not included) are required.



## Ballast Brackets

Black anodized two-piece aluminum bracket clamps around tubing with included 5/16" fasteners and features a 1/2"-13 tapped hole on each side for mounting ballast. Mounting stud and nut sold separately.



Description	Recessed 5/16" Socket Head Fasteners	Exposed 5/16" Hex Head Fasteners
1" O.D. Round Tubing	<b>ALL14178</b>	<b>ALL14192</b>
1-1/4" O.D. Round Tubing	<b>ALL14183</b>	<b>ALL14193</b>
1-3/8" O.D. Round Tubing	<b>ALL14184</b>	<b>ALL14194</b>
1-1/2" O.D. Round Tubing	<b>ALL14185</b>	<b>ALL14195</b>
1-5/8" O.D. Round Tubing	<b>ALL14186</b>	<b>ALL14196</b>
1-3/4" O.D. Round Tubing	<b>ALL14187</b>	<b>ALL14197</b>
2" O.D. Round Tubing	<b>ALL14188</b>	—
2" x 2" Square Tubing	<b>ALL14189</b>	—

## Threaded Stud and Lock Nut for Mounting Ballast ALL14190

1/2"-13 x 6" threaded rod is often used with clamp-on ballast brackets when mounting ballast or may be used to bolt ballast directly to frame or chassis. Threaded rod may be cut to desired length and includes a nylon lock nut and flat washer.





### Oil Eater Degreaser

The cleaner/degreaser that really works! We can't say enough about this cleaner; it can be used as a pre-wash on greasy clothing, to clean engine components, transmission cases and engine compartments, and is even strong enough to clean the shop and trailer floors! You won't be disappointed! Cleaner is non-toxic, non-corrosive and biodegradable so it is safe for the environment.

**ALL78213** ..... 32 oz. Spray Bottle

**ALL78211** ..... 1 Gallon Container



ALL78211

ALL78213

### Dirt Tire Soap

**ALL78236**

Clean your tires like the Pros! Simply mix with water and spray on your tires before washing them, and the mud almost falls off. Cleaner also works for pre-treating your chassis and body before cleaning to help loosen dirt and clay. 1-gallon container.



### Ultrasonic Cleaning Solution

**ALL10644**

Ready-to-use detergent based cleaning solution designed for use in most ultrasonic cleaning machines can be used full strength or diluted with water.



### Novus Plastic Cleaner And Polish

Novus plastic polish will restore the finish of plastics, including polycarbonate windows and windshields. Offered in three formulas.

#### Cleaner 1 – ALL78201

Gently cleans all plastics without scratching. Leaves a lustrous shine that resists fogging, repels dust, and eliminates static. 8 oz. spray bottle.



#### Polish 2 – ALL78202

Removes fine scratches, haziness, and abrasions from most plastics. With repeated use, polish 2 will restore faded and discolored plastics. 8 oz. squeeze bottle.



#### Polish 3 – ALL78203

Removes heavy scratches and abrasions from most acrylic surfaces. Requires both #1 and #2 polishes for final finishing. 8 oz. squeeze bottle.



### Mud-X Cleaner ALL78232

Ground Shipment Only

Cleans and shines plastic, polycarbonate, chrome, fiberglass, paint, vinyl and leather and leaves an invisible coating that protects surfaces and repels dirt, dust, fingerprints, smudges and bugs. Spray it on and wipe it off. Excellent anti-fog coating for helmet shields. 14-oz. can.



### Mud-X Concentrate ALL78230

Mix concentrate with up to ten quarts of water to produce a coating that prevents mud, dirt, oil, rubber, and exhaust residue from sticking to body panels. Safe for metal, plastic, rubber, and painted surfaces. One-quart container.



### Pressurized Sprayers

Sprayers are great for applying bulk cleaners, degreasers, solvents, penetrating oils and other lubricants. Sprayer has a capacity of 32 ounces and includes a versatile nozzle adjustable from mist to a fine stream.



**ALL10516** ..... Black

**ALL10518** ..... Chrome

### Pre-Race Dirt Solution ALL78234

Spray directly on the body and underside of your car before entering the racetrack. Helps prevent dirt, oil and rubber from sticking to the frame and body panels. Use direct without water. Half-gallon container.



### Towels

Soft, absorbent terry cloth towels can be used for polishing, wiping up spills or general detailing. Shop towels belong in every tool box as well as in the shop, garage or trailer.



**ALL12010** ..... Red Shop Towels, 25-Pack

**ALL12011** ..... White Shop Towels, 25-Pack

**ALL12012** ..... White Terry Towels, 12-Pack

### Dial-In Window Marker ALL78205

Easy on, easy off white marker works well on glass and plastic. 3-oz. bottle has a built-in felt applicator.





## Castrol SRF Brake Fluid

### ALL78115

Castrol SRF Brake Fluid has a wet boiling point of 518°F (270°C) which exceeds DOT 3 and 4 standards. Do not mix Castrol SRF and other brake fluids, as this will reduce the benefits of Castrol SRF. Sold in 33.8 oz. bottle.



## AP Radi-CAL R2 Brake Fluid

### ALL78108

Designed for extreme, high temperature racing conditions with a dry boiling point of 594°F and a wet boiling point of 383°F. Conforms to DOT 4 specifications. Sold in 16.9-oz. bottle.



## AP Radi-CAL R3 Brake Fluid

### ALL78116

Developed for extreme, high temperature racing conditions with a typical dry boiling point of 617°F and a wet boiling point of 383°F. Conforms to DOT 4 specifications. Sold in 16.9-oz. bottle.



## Motul 600 Brake Fluid

### ALL78117

100% synthetic brake fluid has an extremely high boiling point, helping to prevent vapor lock and brake fade during hard use. Motul 600 exceeds DOT 3 and DOT 4 specifications. Dry boiling point 594°F, wet boiling point 421°F. Sold in 16.9-oz. bottle.



## Motul 660 Brake Fluid

### ALL78118

100% synthetic brake fluid is specifically designed to resist extreme temperatures generated by racing carbon and ceramic brakes. Motul 660 exceeds DOT 3, DOT 4 and DOT 5.1 specifications. Dry boiling point 617°F, wet boiling point 401°F. Sold in 16.9-oz. bottle.



## Nitrile Gloves

Nitrile gloves protect against dirt and grime and help prevent oil and harsh chemicals from contacting the skin. Chemical resistant gloves work well for general purpose as well as jobs that involve oil, fuel, brake fluid and most cleaning chemicals such as brake and carb cleaners. Package of 100.



**ALL12024** ..... Medium

**ALL12025** ..... Large

**ALL12026** ..... X-Large

**ALL12027** ..... XX-Large

## Brake Bleeder Bottles

Contain the mess of bleeding brakes by capturing fluid in this 16-oz. bottle with a 15" long hose which attaches to most bleeder screws. The removable cap has a built-in fitting to secure the hose during storage to help prevent spills. Choose from a steel lanyard retainer that suspends the bottle from a chassis or suspension component, or a magnet retainer to secure the bottle to a steel object such as a brake drum or rotor during bleeding. ALL11017 has a magnet retainer and a built-in one way check valve for one person brake bleeding.



ALL11019 ALL11018 ALL11017

**ALL11019** ..... Bottle with Lanyard

**ALL11018** ..... Bottle with Magnet

**ALL11017** ..... Bottle with Magnet and Check Valve

**ALL99435** .... Replacement Hose

## Shop Towels ALL12006

Shop towels are much heavier than standard paper towels and work great for numerous tasks around the shop or track. Rolls contain 60 individually perforated 11" x 9-1/2" disposable sheets.



## Cleaning Wipes

Disposable wipes are great for cleaning hands when washing is not an option. Perfect for use after fueling vehicles, making roadside repairs or even as a pre-clean to remove stubborn grease. Durable textured wipes are pre-moistened, citrus scented and enriched with aloe and vitamin E to deep clean and promote soft skin. Resealable package prevents product from drying out.



**ALL12016** ..... 30 Ct. Pop-Up Dispenser

**ALL12017** ..... 60 Ct. Pop-Up Dispenser

## Multi-Purpose Absorbent ALL12035

Organic material is a dust free alternative when cleaning up spills. Sprinkle product on spills and sweep up. 5-lb. resealable bag.







## Competitive Edge Tire Conditioner

Ground Shipment Only

Chemically treats and softens race tires to increase traction without making tires greasy. Apply race day or night before on new or old tires, can be used on the inside or outside. One gallon container treats 4 to 6 tires.

- ALL78105** ..... Single
- ALL78105-4** ..... 4-Pack



## Hot Lap Tire Softener

Ground Shipment Only

Increase tire life by 20% over other softeners and reduce lap times by 2-3 tenths. Hot Lap relies on a special formula and will provide instant results. Formulated to pass tire "sniffer" tests.

- ALL78101** ..... One-Gallon Hot Lap, Quick for 200 Laps
- ALL78107** ..... One-Pint Hot Lap



## Track Claw Tire Strengthener

Ground Shipment Only

Strengthens the rubber and will work on all tires. Undetectable. Reduces lap times 0.2 to 0.3 seconds. One gallon container.

- ALL78110** ..... 180°-220°F Tire Temps
- ALL78111** ..... Up to 150°F Tire Temps



## Tire Wrap

Tires lose solvents and moisture over time but keeping them covered helps prevent tires from drying out. Wrap also helps contain or reduce the amount of chemicals used during "soaking" by minimizing evaporation. Wrap is 18"W x 1500'L.

- ALL44221** .... Black
- ALL44224** .... Clear



## Apron **ALL99962**

Black cloth apron has pockets to keep tools close at hand. Reverse apron to place pockets on the inside when grinding tires. Adjustable strap allows one size to fit all.



## Fuel Fragrances

Fuel fragrances can be added to most types of fuels including methanol, nitromethane, gasoline and also may be used in 2-cycle mixtures. Available in many scents in a resealable 4-oz. bottle—enough to treat 30-55 gallons of alcohol or 20 gallons of gasoline. Mixes clear with fuel.



Ground Shipment Only

- ALL78123** ..... Cinnamon
- ALL78124** ..... Cherry
- ALL78125** ..... Blueberry
- ALL78126** ..... Grape
- ALL78127** ..... Banana
- ALL78128** ..... Fruit Punch
- ALL78129** ..... Pina Colada
- ALL78130** ..... Root Beer
- ALL78131** ..... Bubble Gum
- ALL78132** ... Cotton Candy
- ALL78133** ... Raspberry
- ALL78134** ... Tangerine
- ALL78135** ... Reefer Madness
- ALL78136** ... Vanilla
- ALL78137** ... Green Apple
- ALL78138** ... Strawberry
- ALL78139** ... Watermelon

## Upper Lube Fuel Additive

Ground Shipment Only

Upper Lube is a high-temperature cylinder lube that protects and extends engine life. Added directly to the fuel, Upper Lube reduces fuel wash down, chalky residue and corrosion, while lubricating cylinders, valves, guides, and fuel system components. It mixes completely, won't separate from fuel, leaves no varnish residue and does not contain a flame agent. One 16-oz. bottle treats 55 gallons of alcohol, 150 gallons of gasoline, or 110 gallons of ethanol.



- ALL78100** ..... Upper Lube
- ALL78120** ..... Upper Lube with Cherry Fragrance
- ALL78122** ..... Upper Lube with Grape Fragrance

## Fogging Oil **ALL78220**

Ground Shipment Only

Spray aerosol lubricant (with special additives) into the intake and spark plug holes to coat and lubricate the cylinders, valves and valve seats. Prevents horsepower-robbing corrosion and eliminates scuffing at start-up after periods of storage. May be used in all 2- or 4-cycle carbureted or fuel injected gasoline engines in cars, trucks, motorhomes, ATV's, etc. Sold in a 12-oz. can.



## Extreme Pressure Lube

### **ALL78246**

Originally used throughout the tool and die industry, this lube provides superior durability and wear protection taking the place of anti-seize in many applications. Recommended for spline-to-spline contact, threaded adjusters, and engine fasteners. 4-oz. tube.



CHEMICALS





## Aluminum Radiators

Aluminum radiators are fully welded units designed to hold up to the stresses of most motorsports and street use applications. Radiators feature two rows of 1" wide tubes that are furnace brazed to the tanks and a fully welded billet aluminum filler neck with a removable overflow fitting. All radiators feature a slightly raised and inward angled 1-3/4" beaded lower outlet for applications that require the radiator to be mounted lower in the chassis. Sizes listed are overall dimensions, core widths are approximately 5" less than overall width. Radiator caps rated at 28lbs or less are recommended for all aluminum radiators.

### Single Pass Radiators

Our most popular radiator, this design allows coolant to enter the top inlet and flow from one side of the radiator to the other and exit the opposite side. These radiators feature beaded standard hose fittings for push-on style radiator hoses, 1-1/2" upper inlet and 1-3/4" lower outlet.

Part No:	Overall Dimensions
<b>GM</b>	
ALL30010	19" x 22"
ALL30011	19" x 24"
ALL30012	19" x 26"
ALL30014	19" x 28"
ALL30016	19" x 31"
ALL30042	16" x 28"
<b>Ford</b>	
ALL30020	19" x 22"
ALL30021	19" x 24"
ALL30022	19" x 26"
ALL30024	19" x 28"
ALL30026	19" x 31"
ALL30043	16" x 28"



ALL30012



ALL30022

### Dual Pass Radiators

Dual pass radiators are basically two radiators in one, coolant enters through the inlet and passes through the top half of the radiator and then passes back through the lower portion of the radiator. These radiators feature a universal 1-5/8"-12 ORB fitting inlet design that allows for multiple inlet fitting options (sold separately). The lower outlet is a fully welded 1-3/4" standard hose fitting for push-on style radiator hoses.

Part No:	Overall Dimensions
ALL30033	19" x 24"
ALL30035	19" x 26"
ALL30036	19" x 28"
ALL30037	19" x 31"



ALL30035

### Dual Pass Radiators with 1/4" NPT Bung

This radiator offers the same benefits as our standard dual pass radiator but also features a 1/4" NPT bung in LH tank which is commonly used as an accessory port for installing an electric cooling fan switch or a coolant pressure switch.

Part No:	Overall Dimensions
ALL30333	19" x 24"
ALL30335	19" x 26"
ALL30336	19" x 28"
ALL30337	19" x 31"



ALL30333

### Triple Pass Radiators

Triple pass radiators circulate coolant across the top portion of the radiator, back across the mid-section and through the bottom allowing maximum heat dissipation. This style radiator requires a high flow water pump to be most effective. These radiators feature a universal 1-5/8"-12 ORB fitting inlet design that allows for multiple inlet fitting options (sold separately). The lower outlet is a fully welded 1-3/4" standard hose fitting for push-on style radiator hoses.



ALL30046

Part No:	Overall Dimensions
ALL30045	19" x 24"
ALL30046	19" x 26"
ALL30047	19" x 28"
ALL30048	19" x 31"

### Radiator Inlet Fittings

Inlet fittings thread into Allstar dual and triple pass radiators offering different connection options for one radiator. Aluminum fittings have a o-ring seal and a built-in hex with a 1-5/8"-12 thread.

- ALL30038 .... 1-1/2" Hose Fitting
- ALL30041 .... 1-3/4" Hose Fitting\*
- ALL30039 .... -16AN Fitting
- ALL30040 .... -20AN Fitting



ALL30038

\*Use with lower radiator hose as an upper hose

### Lightweight Dual Pass Single Row Aluminum Radiators

Dual pass radiators feature an all-aluminum construction including a 1-1/2" wide single row core that is furnace brazed, a fully welded billet filler neck with a removable overflow fitting, 1/4" NPT bung for an accessory port and finished with a heat-resistant black coating. These radiators feature a universal 1-5/8"-12 ORB fitting inlet design that allows for multiple inlet fitting options (sold separately). The lower outlet is a fully welded 1-3/4" standard hose fitting for push-on style radiator hoses.



ALL30343

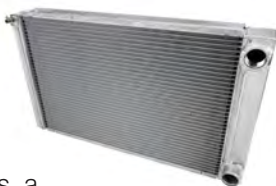
Part No:	Overall Dimensions
ALL30343	19" x 24"
ALL30345	19" x 26"
ALL30346	19" x 28"
ALL30347	19" x 31"

COOLING



### Asphalt Late Model Radiator ALL30044

Aluminum dual pass radiator measures 16" x 28" overall featuring two rows of 15/16" tubes, a core width of 2-1/4" and an overall tank width of 2-3/4". The outlet is designed for a standard 1-3/4" hose connection and welded 90 degrees to the tank not angled upward. The inlet is a universal design to accept fittings for 1-1/2" standard hose, 1-3/4" hose, -16AN, or -20AN fittings (sold separately). Radiator is designed for use with a surge tank, so it does not have a filler neck. A 1/4" petcock located near the top on the driver's side to release possible trapped air in the system when filling.



### Sprint Radiator ALL30028

Aluminum radiator with furnace brazed tanks provides superior cooling in sprint applications. Features machined filler neck, 1-1/2" RH bottom outlet and (4) female top outlet ports for use with -10AN O-ring fittings. Radiator uses a smaller diameter cap (not included) such as ALL30124 or ALL30125. 20" wide x 22" tall x 2" wide. 9.7 lbs.



### Sprint Cross Flow Radiator (Chassis Mount) ALL30030

Aluminum radiator with a unique black thermal coating provides superior cooling! Built-in mounting brackets enable the radiator to be quick-turn fastened directly to frame tabs. Radiator with -10AN O-ring inlets and 1-1/2" outlet is 20-1/2" wide x 18-1/2" tall (including outlet neck) x 2-3/8" thick core. Recommended radiator cap is ALL30126 (28-32 lbs.) sold separately. Approximate weight 8.5 lbs.



### Upper Mount Kit for Two Row Radiators ALL30121

Channel rests on top of the core and two aluminum straps may be bolted or welded to the channel. Hook the steel springs into provided hole and connect to a lower chassis location.



#### Related Components:

- ALL30123 .... Channel for Two Row Radiators
- ALL30153 ... Channel for Single Row Radiators

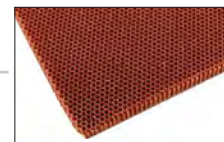
### Upper Radiator Support Bracket ALL30120

Universal upper support bracket is preformed to fit over the top of most radiator cores (up to 2-1/2" thick) to keep radiator secured in saddle style lower mounts. Steel bracket is .085" thick and has a 3/16" hole for riveting or bolting in place.



### Radiator Honeycomb ALL30158

Honeycomb screen mounts to front of radiator to protect fans/core from rocks and debris. Secure directly to radiator using ALL30085 mounting kit, sold separately. 19" x 26" x 1/2" thick.



### Universal Mounting Kit ALL30085

Mounting kits are commonly used to mount electric fans, oil coolers, transmission coolers or honeycomb screen directly to a radiator. Kits include four 8" nylon mounting bolts with washers, rubber spacer blocks and retaining nuts. Bolts are pressed through the fins of the radiator to mount accessory.



### Radiator Shaker Screen ALL30160

Commonly used on Dirt Late Models, universal shaker screen is mounted in front of the radiator on most dirt cars. Unit includes black powder-coated aluminum frame, screen, 1/2" x 32" cross rod, springs and retaining clips. Frame dimensions are 17" tall and 25" wide.



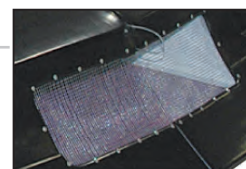
### Sprint Car Radiator Rock Screen ALL30163

Aluminum rock screen helps to protect radiators from heavy rocks and mud. Mounting tabs are integrated into the frame for quick and easy installation to the front air box. Measures 20-1/2" wide x 12" tall and weighs just under 1 lb. Quick turn springs are included.



### Stainless Wire Screen

Use screen to protect radiators, oil coolers or other items. Size referenced is the approximate opening of the screen.



#### 5/64" (.025" Wire Diameter)

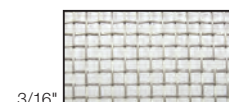
- ALL22260 .... 12" x 36"
- ALL22262 .... 36" x 36"

#### 1/8" (.035" Wire Diameter)

- ALL22265 .... 12" x 36"
- ALL22267 .... 36" x 36"
- ALL22268 .... 36" x 48"

#### 3/16" (.047" Wire Diameter)

- ALL22270 .... 12" x 36"
- ALL22272 .... 36" x 36"
- ALL22273 .... 36" x 48"







### 1955-56 Chevy Aluminum Radiator **ALL30005**

A direct replacement for all 1955-56 Chevy passenger cars with six cylinder engines, also ideal for 1955-57 Chevy V8's with long style water pumps. Radiator has mounting brackets that position it in front of the core support bar, two rows of 1" tubes, furnace brazed tanks, a machined billet filler neck with over flow fitting, drain petcock, 1/2"NPT bung for additional temperature sender/switch and mounting clips. The built-in automatic transmission cooler has 1/4"NPT fittings. 23-1/4"H x 23-1/4"W. Core width is 22".



### 1957 Chevy Aluminum Radiator **ALL30007**

A direct replacement for all 1957 Chevy passenger cars with six-cylinder engines, also ideal for V8's with long style water pumps that require additional space between engine and radiator. Radiator features mounting brackets that position the radiator in front of the core support bar, two rows of 1" tubes, furnace brazed tanks, a machined billet filler neck with over flow fitting, drain petcock, 1/2"NPT bung for additional water temperature sender/switch, and mounting clips. The built-in automatic transmission cooler has 1/4"NPT fittings. 23-1/4"H x 23-1/4"W. Core width is 22".



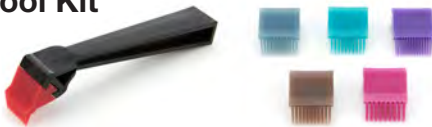
### 1955-57 Chevy Aluminum Radiator **ALL30006**

A direct replacement radiator for all 1955-57 Chevy passenger cars with a V8 engine using a short style water pump. Radiator has mounting brackets that position it behind the core support bar, two rows of 1" tubes, furnace brazed tanks, a machined billet filler neck with over flow fitting, drain petcock, 1/2"NPT bung for additional temperature sender/switch, and mounting clips. The built-in automatic transmission cooler has 1/4"NPT fittings. 23"H x 24-1/2"W. Core width is 22".



### Radiator Fin Tool Kit **ALL10680**

Handheld tool straightens and repairs damaged



fins in most radiators, coolers, and air conditioning condensers. Repairing damaged fins provides better air flow through core, increasing cooling ability. Six interchangeable heads in 13, 15, 16, 17, 18, and 20 fins per inch.

### Direct-Fit Radiators

Aluminum direct-fit radiators provide increased cooling over original copper radiator. Designed for performance vehicles, features include machined billet aluminum filler necks, fully welded construction and two rows of large 1" tubes properly spaced for maximum air flow and cooling on the street, even at lower speeds. Built-in automatic transmission coolers. O.E. fan shrouds may require modification for installation.



ALL30300

- ALL30300** .... 1967-69 GM F-Body (Camaro and Firebird) PS Outlet, DS Inlet, 31"W x 19-1/2"H Overall, 23"W x 18"H Core
- ALL30301** .... 1970-81 GM F-Body (Camaro and Firebird) PS Outlet, DS Inlet, 26"W x 19-1/2"H Overall, 20-1/2"W x 18"H Core
- ALL30302** .... 1982-92 GM F-Body (Camaro and Firebird) PS Outlet, DS Inlet, 30"W x 19-1/2"H Overall, 24-1/2"W x 18"H Core
- ALL30304** .... 1968-77 GM A-Body (Chevelle, Cutlass, LeMans) PS Outlet, DS Inlet, 34"W x 19-1/2"H Overall, 28-1/2"W x 18"H Core
- ALL30306** .... 1966-80 Mopar DS Outlet, PS Inlet, 29"W x 19-1/2"H Overall, 22-1/2"W x 18"H Core
- ALL30308** .... 1964-66 Mustang PS Outlet, PS Inlet, 19-3/4"W x 21"H Overall, 18"W x 16"H Core
- ALL30310** .... 1979-93 Mustang DS Outlet, PS Inlet, 29-3/4"W x 19-1/2"H Overall, 24-1/2"W x 18"H Core

### Blower Fan Cool Box **ALL30001**

Help cool down engine between practice sessions or races. Outside plenum works with Allstar's ALL30002 blower fan, creating a forced air cooling system designed to fit the grill opening of most template body noses. Plenum suspends by straps that attach to the hood pins, allowing the car to be raised for adjustments or maintenance. Assembly required and may need slight trimming due to blower fan variances.



### Blower Fan **ALL30002**

Compact, plastic blower moves up to 300 CFM of air. The quiet electric blower has three speeds and can be adjusted to move cooling air wherever it's needed, up to 30 ft. away. Weighs just 8 lbs. with two built-in receptacles and a 12' long power cord.



COOLING



## Radiator Caps

Radiator caps are an often-overlooked component of the cooling system that should be checked and replaced often. Higher cooling system pressure raises the boiling point of coolant to help reduce the risk of overheating. Caps allow coolant to exit the cooling system into an overflow or recovery bottle as coolant heats and expands. Recovery style caps work when the overflow hose is properly connected to the recovery bottle, as the system cools, coolant from the recovery bottle will be drawn back into the radiator to keep the cooling system full. Standard diameter caps  $\pm$  2-1/8" O.D. x 3/4" deep necks, and small diameter caps  $\pm$  1-5/8" O.D. x 5/8" deep necks (dimensions are approximate).

Part No.	Pressure
<b>Standard Diameter Caps (2-1/8")</b>	
<b>ALL30132</b>	14-18 PSI
<b>ALL30133</b>	14-18 PSI w/ Lever
<b>ALL30134</b>	18-22 PSI
<b>ALL30130</b>	18-22 PSI w/ Lever
<b>ALL30136</b>	20-24 PSI
<b>ALL30131</b>	20-24 PSI w/ Lever
<b>ALL30129</b>	28-32 PSI
<b>Small Diameter Caps (1-5/8")</b>	
<b>ALL30124</b>	14-18 PSI
<b>ALL30125</b>	18-22 PSI
<b>ALL30126</b>	28-32 PSI



ALL30129



ALL30131

\*Warning: High-pressure radiator caps are made for use on race vehicles only. Do not use these caps on passenger vehicle cars with stock type radiators. It is recommended to pressure test the complete cooling system to the maximum level of pressure indicated on the cap. Failure to test cooling system to the proper pressure prior to installing the cap may result in damage to the cooling system and/or bodily injury.

## Billet Aluminum Radiator Cap

### ALL30139

Polished billet aluminum cover is permanently pressed onto a 16-lb. recovery style radiator cap for enhanced appearance within any engine compartment. Cap is a suitable choice for most street driven vehicles.



## Radiator Tank Heating Pad **ALL76420**



Fasten pad directly to the side of radiator tank to help add heat to your engine on cool nights. 2" x 15" high temperature silicone heating pad externally pre-heats coolant in the radiator and reduces overall warm up time. These are not thermostatically controlled, units will continue to heat as long as they are plugged in.

Note: Additional pads are located in the Engine section for oil pan and oil tank applications to add additional heat to the engine before start-up.

## Electric Fan Shrouds

Aluminum shrouds are designed to work with electric fans mounted as a puller behind the radiator. Special air release caps allow additional airflow to pass through the core and shroud as the vehicle is moving, and close to allow fan to draw air through the core of the radiator at rest. Dimensions are overall including a 1/2" top and bottom mounting flange and all fans are 1" deep.



ALL30062



Fan Sold Separately

- ALL30060** .... 16-3/4" x 18-3/4" Single 16" Fan
- ALL30061** .... 18-3/4" x 18-3/4" Single 16" Fan
- ALL30062** .... 20-3/4" x 18-3/4" Single 16" Fan
- ALL30063** .... 25-3/4" x 18-3/4" Single 16" Fan
- ALL30064** .... 25-3/4" x 18-3/4" Dual 12" Fans

## Curved Blade Electric Fans

Electric fans require very little amperage and are suitable for use in race car or tow vehicle. Fans are set up as "puller" units, mounted behind the radiator. By flipping blades, reversing wires, and mounting in front of radiator, fans will operate in "pusher" configuration. Each unit includes a mounting kit.



ALL30074

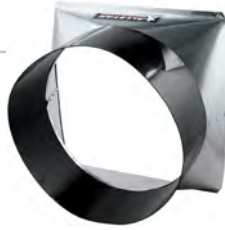
- ALL30070** .... 10", 775 CFM
- ALL30072** .... 12", 925 CFM
- ALL30074** .... 14", 1530 CFM
- ALL30076** .... 16", 1980 CFM
- ALL30085** .... Replacement Mounting Kit



Kody Swanson

## Fan Shrouds

Allows fan to pull more air through the radiator for increased cooling. Aluminum and impact-resistant plastic shrouds fit fans up to 17" diameter. Radiator size reference is based on outside tank dimension.



Part No.	Radiator Size*	Shroud Width	Shroud Depth	Max Fan Dia.
<b>Fits Allstar Radiators</b>				
ALL30107	22"	17-3/8"	9-3/4"	15"
ALL30112	24"	19"	9-3/4"	15"
ALL30109	26"	20-3/4"	9-3/4"	17"
ALL30110	28"	23"	9-3/4"	17"
ALL30115	31"	25-3/4"	9-3/4"	17"
<b>Fits Griffin Radiators</b>				
ALL30106	26"	21-1/8"	11"	17"
ALL30108	28"	23"	11"	17"
ALL30111	31"	26-1/4"	11"	17"
<b>Fits Howe Radiators</b>				
ALL30114	26"	22-1/2"	11"	17"
ALL30116	28"	24"	11"	17"
ALL30111	31"	26-1/4"	11"	17"

\*Radiator size reference is based on outside tank dimension.

## Molded Nylon Fans

Lightweight 6-blade fans are economical and very durable. Universal bolt pattern with a 5/8" pilot hole.

- ALL30091 .... 14" Dia.
- ALL30092 .... 15" Dia.
- ALL30093 .... 16" Dia.
- ALL30094 .... 17" Dia.
- ALL30095 .... 18" Dia.



## Reinforcement Plate for Nylon Fans ALL30079

Plate installs beneath the mounting hardware to strengthen fan mounting location and prevent hardware from damaging the fan.



## 6-Blade Fans

Heavy-duty, 27° 6-blade fans, available with aluminum or steel blades, can move the volume of air needed to keep race engines cool. Universal bolt pattern with a 5/8" pilot hole.

- ALL30096 .... 15" Dia. Aluminum Blades
- ALL30097 .... 17" Dia. Aluminum Blades
- ALL30102 .... 15" Dia. Steel Blades
- ALL30103 .... 17" Dia. Steel Blades
- ALL30100 .... 18" Dia. Steel Blades



## GM Style 4-Blade Steel Fan

### ALL30099

Steel 4-blade fan is a direct replacement for the popular GM 4-blade fan. Fan features a 60° blade design, a universal bolt pattern with a 5/8" pilot hole and weighs approximately 3 lbs. Small diameter flat washers included for proper installation.



### Tech Tip:

This 4-blade fan was originally designed for use in O.E. production vehicles. When this fan is used in high-performance applications it is recommended that fan and mounting fasteners be inspected as a part of regular vehicle maintenance.

## 4-Blade Steel Fans

Steel high RPM fans are available in 15", 18", or 19". All have a universal bolt pattern with a 5/8" pilot hole. Riveted reinforcement plate adds strength and high-pitch 32° blades increase airflow. Painted black to resist corrosion.



- ALL30104 .... 15" Dia.
- ALL30105 .... 18" Dia.
- ALL30101 ..... 19" Dia.

## Fan Spacer Kits

Fan spacers position fan closer to radiator or fan shroud and away from pulleys. 1-1/2" and larger spacers are uniquely designed allowing spacer to remain bolted to water pump while changing fans. Aluminum spacers include 3/4" to 5/8" water pump shaft reducer bushing, four Allen bolts to secure spacer to water pump and four hex bolts with washers to secure fan to spacer. Spacers work with 1-3/4" bolt circle flanges only.



- ALL30180\* ... 1/2"
- ALL30182\* ... 1"
- ALL30183\* ... 1-1/4" **NEW**
- ALL30184 .... 1-1/2"
- ALL30186 .... 2"
- ALL30188 .... 2-1/2"
- ALL30190 .... 3"
- ALL30192..... 3-1/2"

\*Includes one set of four bolts for fan and spacer installation.

### Replacement Component:

- ALL99026.....Reducer Bushing (3/4" to 5/8") 1/4" Long (ALL30180 only)
- ALL99027.....Reducer Bushing (3/4" to 5/8") 1/2" Long



## Aluminum SB Chevy "Short Style" Water Pump **ALL31100**

Popular "short style" water pump that was originally used on pre-1969 small block Chevrolets. Pumps are built using all new components and an aluminum body for added weight savings over original cast iron pumps. Pump features a 3/4" main shaft and bearings with a 5/8" pilot and a billet steel hub drilled for both small and large fan bolt patterns, making this a good choice for street and mild performance vehicles. Block mount to fan hub dimension is 5-5/8". **This pump is not recommended for use with mechanical fans over 5,000 RPM.** Above this RPM, use the ALL31105 pump with a 3/4" shaft/bearing.

Note: Water pump may need to be clearanced for use with 8" dampers.



## Aluminum SB Chevy "Corvette Style" Water Pumps

This aluminum version of "Corvette style" water pump was originally used on 1971-82 small block Chevrolet Corvette, but is now used throughout the motorsports industry. Pump is built using all new components and an aluminum body for added weight savings over original cast iron pumps. Pump features a 3/4" main shaft and bearings with a 3/4" pilot and a billet steel hub that has a set screw retainer for use on higher RPM applications. Block mount to fan hub dimension is 5-13/16".



ALL31105



ALL31106

**ALL31105**..... Water Pump

**ALL31106**..... Water Pump with 3/8"NPT Bypass Ports and Cam Stop Hardware

Note: Water pumps may need to be clearanced for use with 8" dampers.

## Water Pump Cam Stop Kit

**ALL99415**

Water pump cam stop kit includes a 2" long 3/8"-24 threaded stud, washer and nut to replace or add a cam stop bolt to a water pump equipped with a stud mounting boss. Stud can be tightened against timing cover when cam buttons are used to help prevent "cam walk".



## SB Chevy Water Pump Spacer Kits

Kits provide additional clearance needed for belt or gear drive timing systems. Gaskets are included.

**ALL31070**..... 1/8"

**ALL31071**..... 1/4"

**ALL31072**..... 3/8"

**ALL31073**..... 1/2"



ALL31072

## LS Electric Water Pump

**ALL31122**

- Fits LS Gen III/IV
- Black Anodized Finish
- Machined from 6061 T6 Billet Aluminum
- High-ow electric motor perfect for race applications
- F-Body inlet/outlet location

Pair with our Allstar inline thermostat housing if a thermostat is required! (ALL31160)



## GM LS Coolant Bypass/Crossover Plugs

**ALL31170**

Plugs provide a location to bleed air from cooling system of most GM LS engines. Replace factory original plugs or use in place of factory crossover steam tubes. Kit includes two plugs with O-rings.



## Pulley Shim Kits

Use shim kits to properly align pulleys. Water pump shims have dual bolt hole pattern to fit most GM and Ford water pumps. Crank pulley spacers are for small block Chevs.



ALL31064



ALL31066

**ALL31064** .... Water Pump, 1/16", 1/16", 1/8" (3 Shims)

**ALL31066** .... Crankshaft, 1/16", 5/64", 1/8" (3 Shims)

## Aluminum SB Chevy Reduction Pulleys

Speci cally for short or Corvette water pumps, pulleys work with power steering pump and pulley to provide a ratio within the GM speci ed RPM range. Race engine RPM differs greatly from street engines.

For 30% less water pump speed and reduced weight and inertia, the crankshaft and water pump pulleys are smaller in diameter than standard reduction pulleys. Acceleration capabilities are greatly enhanced.

**ALL31030**..Crankshaft Pulley (4-3/4" Diameter)

**ALL31040**..Water Pump Pulley, Short Pump with 5/8" Pilot Hole (6-5/8" Dia.)

**ALL31050**..Water Pump Pulley, Corvette Pump with 3/4" Pilot Hole (6-5/8" Dia.)

**ALL86120**..Belt, Crank to Water Pump, 31.5"

**ALL86122**..Belt, Crank/Water Pump/Block Mount P/S Pump, 39"

**ALL86124**..Belt, Crank/Water Pump/Head Mount P/S Pump, 42"

Note: Crankshaft pulley will work with either water pump pulley without spacers.



ALL31040

ALL31030



## SB Chevy 1:1 Ratio Pulley Kits

Double groove aluminum pulley kits feature 6-5/8" diameter pulleys and include common 15/32" V-belts to work with block or head-mounted Allstar power steering kits. Pulley kits are designed to work with short style water pumps with a 5/8" shaft that measure 5-5/8" from block mount to hub face. Components also sold separately.



- ALL31080** .... Kit for Block Mount Power Steering Pump
- ALL31082** ..... Kit for Head Mount Power Steering Pump
- ALL31083** .... Kit for No Power Steering

### Individual Components

- ALL31084** ..... 1:1 Crank Pulley (6-5/8")
- ALL31085** ..... 1:1 Water Pump Pulley (6-5/8")
- ALL86121** ..... Belt, Crank to Water Pump, 34"
- ALL86123** ..... Belt, Crank/Water Pump/Block Mount P/S Pump, 41"
- ALL86125** ..... Belt, Crank/Water Pump/Head Mount P/S Pump, 44"

## V-Belts

Premium quality V-belts are perfect replacements for worn or cracked belts.

- ALL86120** .... 31.5"
- ALL86121** ..... 34"
- ALL86122** .... 39"
- ALL86123** ..... 41"
- ALL86124** ..... 42"
- ALL86125** ..... 44"



## SB Chevy Premium Reduction Pulley Kits

Premium reduction pulley kit features a 4-3/4" diameter crankshaft pulley and a 5-1/8" water pump pulley with 1/2" wide grooves for use with industrial grade belts. The increased belt width helps reduce belt slippage when used with high performance mechanical fans. The small diameter pulley combination provides less than 10% RPM reduction in fan speed while providing a 30% RPM reduction when using a power steering pump with a 6" pulley



Power Steering Pulley Sold Separately

ALL31090

Note: Pulleys are designed to use with short "Corvette Style" 3/4" shaft water pump (ALL31105 or ALL31106).

- ALL31090** .... Kit for Block Mount Power Steering Pump
- ALL31092** ..... Kit for Head Mount Power Steering Pump
- ALL31093** ..... Kit for No Power Steering

### Individual Components

- ALL31094** .... Crank Pulley (4-3/4")
- ALL31095** ..... Water Pump Pulley 5-1/8"
- ALL86127** .... 29" Performance V-Belt\*
- ALL86128** ... 37" Performance V-Belt\*
- ALL86129** ... 41" Performance V-Belt\*

\*These will not work with standard width pulleys that are designed for 7/16" wide V-belts

## Crank Pulley Mandrel Kit

### ALL31031

Kit prevents mandrel bolt breakage and is made specifically for use with Allstar ALL31030 crank pulley. Mandrel is attached to the crankshaft pulley with three bolts, while the vibration damper is retained with the stock bolt. The mandrel bolt is then connected to the mandrel – not to the crankshaft – to reduce engine harmonics (helps prevent loosening or breaking). Kit includes spacers, pulley guides, and bolts to work effectively with most 3-, 4-, and 5-stage dry sump pumps, alone or with belt-driven fuel pumps. Pulleys sold separately.



## Mandrel Spacers

Aluminum spacers properly space and align pulleys when used with a 1/8" keyed mandrel. The same spacers are found in the ALL31031 Mandrel Kit. Sold each.



- ALL31020** ..... 1/4" Thick Spacer
- ALL31022** ..... 1/2" Thick Spacer
- ALL31024** ..... 3/4" Thick Spacer
- ALL31026** ..... 1" Thick Spacer
- ALL31028** ..... 1-1/4" Thick Spacer

## Gilmer Belts

1" wide, assorted lengths.

- ALL86130** .... 21.0"
- ALL86132** ..... 22.5"
- ALL86134** ..... 24.0"
- ALL86136** .... 25.5"
- ALL86138** .... 27.0"



### TECH TIP

Belt Tension - Gilmer style belts are properly tensioned when belt can be twisted 1/2 turn.

## Remote Mount Electric Water Pump ALL31120

Compact water pump will flow up to 25 GPM which is perfect for intercoolers, dragsters or compact engines. Pump can be used on 12-16 volt systems and only draws 8 amps. Electric motor is sealed to help prevent damage or corrosion and 6061-T6 billet aluminum housing is black hard coat anodized with threaded mounting holes for easy mounting. Accepts -12AN ORB fittings, complete unit weighs only 5 lbs.



COOLING

## Inline Electric Water Pump **ALL31130**

Inline water pump will flow up to 50 GPM, which is suitable for many applications throughout the motorsports industry. Pumps are designed to provide better cooling and space savings over most mechanical pumps. Pump can be used on 12-16 volt systems and only draws 6 amps. Electric motor is sealed to help prevent damage or corrosion and billet 6061-T6 aluminum housing is black hard coat anodized with threaded mounting holes for easy mounting. Use with Allstar ALL31135-31140 adapter fittings. Complete unit weighs 6 lbs. Wire harness with 20-amp inline fuse included.



- ALL31135** ..... 1-1/4" Hose Fitting
- ALL31136** ..... 1-1/2" Hose Fitting
- ALL31137** ..... 1-3/4" Hose Fitting
- ALL31138** ..... -12AN Fitting
- ALL31139** ..... -16AN Fitting
- ALL31140** ..... -20AN Fitting

## Y-Block Adapter **ALL31159**

Billet aluminum Y-block is commonly used when connecting inline or remote electric water pumps to AN block adapters. 1-1/4"-12 inlet port accepts Allstar ALL31135-31140 O-ring style fittings for direct hose or AN style connections. Outlet ports accept standard -12AN ORB fittings to connect to block adapters.



## Water Pump AN Block Adapters

Adapters mount in place of standard mechanical water pumps when using inline or remote electric water pumps. Ford pump adapters require water pump back plates for complete installation.



- ALL31150** ..... SB Chevy -12AN
- ALL31151** ..... BB Chevy -12AN
- ALL31152** ..... SB Ford -12AN
- ALL31153** ..... SB Ford Water Pump Back Plate (Early)
- ALL31154** ..... SB Ford Water Pump Back Plate (Late)

## Inline Thermostat Housing

**ALL31160**

Black anodized aluminum inline thermostat housing fits GM-style thermostats. Use with 1.5" hose size.



## Billet Water Neck Spacer

**ALL30375**

Billet aluminum spacer fits between intake manifold and water neck, providing connection options for temperature senders or additional water lines. 1" tall spacer fits most Chevrolet V8's. Includes four 1/2"NPT ports with plugs and an O-ring seal on one side, eliminating the need for a gasket.



## Water Necks

Aluminum water necks fit most Chevrolet V8's. Two-piece design necks swivel 360° to accommodate LH and RH radiator inlets. An O-ring seal and two chrome-plated socket head cap screws are included.



ALL30170



ALL30270

	Black Powder	
	Polished	Coated
90° Neck	<b>ALL30170</b>	<b>ALL30270</b>
75° Neck	<b>ALL30173</b>	<b>ALL30273</b>
45° Neck	<b>ALL30171</b>	<b>ALL30271</b>
Straight Neck	<b>ALL30172*</b>	<b>ALL30272</b>

\* One-Piece Fixed Neck

## Billet Aluminum Swivel Water Necks

Billet aluminum water necks fit most Chevrolet V8's, accept most standard thermostats and swivel a full 360° to simplify connection of LH or RH radiator hoses to engine. Black anodized finish helps protect against corrosion. Stainless steel hardware and an O-ring for sealing the base of the water neck to engine are included.



ALL30370

- ALL30370** .... 1-1/2"
- ALL30371** .... 1-3/4"
- ALL30372** .... -16AN
- ALL30373** .... -20AN

## O-Ring Water Necks **NEW**

Aluminum O-ring water neck bolts to SB Chevy intake. Black in color.



- ALL30376** .... -16AN
- ALL30377** ... -20AN

## Low Profile Water Necks **NEW**

Aluminum Chevrolet V-8 style water neck sits only 1.75" above the intake flange and features a front exiting fitting. Black anodized finish helps protect against corrosion. Stainless steel hardware and an O-ring for sealing the base of the water neck to engine are included.



- ALL 30380** ... -16 AN Kit
- ALL 30381** ... -20 AN Kit
- ALL 30382** ... Housing only

## SB Ford Chrome-Plated Water Neck **ALL30174**

Cast aluminum 45° water neck fits small block Ford. Includes an O-ring for sealing the base flange and two hex-head bolts.



## Water Outlet Restrictor Kit

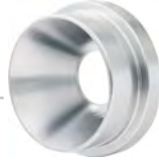
**ALL30241**

Restrictor replaces the thermostat to control the flow of water through the cooling system. Kit contains three 2-1/8" O.D. aluminum restrictors with 5/8", 3/4", and a 1" center I.D. hole that fit most GM V8 or V6 and SB Ford water outlets.



## Aluminum Radiator Hose Restrictor **ALL30242**

Lower radiator hose restrictor helps keep the water in your radiator longer to improve cooling. Machined aluminum restrictor has a 5/8" I.D. and will fit into most 1-3/4" radiator outlets or radiator hose.



## Upper Radiator

**Hose Kit ALL30260**

Upper hose kit eliminates the concern of the upper hose collapsing and fits a variety of radiator widths. 1-1/2" hose kit includes a 90° steel tube and two silicone hoses.



## Radiator Hose I.D. Reducer

**ALL30240**

Rubber reducer allows a lower radiator hose with a molded-in spring to be used as an upper radiator hose. In continuous high RPM applications, the upper hose can collapse limiting coolant flow. Upper hoses with an internal spring support can also collapse if the spring is drawn into the radiator tank. Reducer fits inside 1-3/4" lower radiator hoses which have molded-in reinforcement springs and reduces the I.D. from 1-3/4" to 1-1/2".



## Billet Aluminum Hose Clamps

Billet aluminum clamps provide a lightweight finished look for securing popular standard and silicone style radiator hoses.

**ALL18326**..... Clamp for 1-1/2" I.D. Hose  
**ALL18327**..... Clamp for 1-3/4" I.D. Hose



## T-Bolt Band Clamps

Stainless steel constructed band clamps provide a better sealing option over traditional hose clamps in performance applications. Clamps feature a 3/4" wide band and are sold in pairs.

**ALL18345**..... Clamp for 1-1/2" I.D. Hose  
**ALL18347**..... Clamp for 1-3/4" I.D. Hose



## Radiator Hoses

Two-ply coolant hose is flexible and adapts to a variety of applications. Abrasion-resistant cover will not crack or harden.



### 1-1/2" I.D. Upper Hose

**ALL30200** ... 12"  
**ALL30202** ... 14"  
**ALL30204** ... 15-1/2"  
**ALL30206** ... 17"  
**ALL30208** ... 20"  
**ALL30210** ... 22"  
**ALL30212** ... 25"  
**ALL30214** ... 30"

### 1-3/4" I.D. Lower Hose

**ALL30220** ... 11"  
**ALL30222** ... 13-1/2"  
**ALL30224** ... 16-1/2"  
**ALL30226** ... 19"  
**ALL30228** ... 23-1/2"

### Hose Clamps (2-Packs):

**ALL18334** .... Clamps, Upper Hose  
**ALL18336** .... Clamps, Lower Hose

## Hose Clamps

Heavy-duty all stainless steel construction clamps are easily tightened with a deep-slot hex-head screw. Superior to standard hardware store clamps. For best connection, select the clamp which fits within the range of hose O.D.



Part No.	Min Hose O.D.	Max Hose O.D.
<b>2-Pack</b>		
<b>ALL18330</b>	1/4"	5/8"
<b>ALL18332</b>	1/2"	1-1/8"
<b>ALL18334</b>	1"	2"
<b>ALL18336</b>	1-5/16"	2-1/4"
<b>ALL18338</b>	1-9/16"	2-1/2"
<b>ALL18340</b>	1-5/8"	3-1/2"
<b>ALL18342</b>	2-5/8"	4-1/2"

<b>10-Pack</b>		
<b>ALL18330-10</b>	1/4"	5/8"
<b>ALL18332-10</b>	1/2"	1-1/8"
<b>ALL18334-10</b>	1"	2"
<b>ALL18336-10</b>	1-5/16"	2-1/4"
<b>ALL18338-10</b>	1-9/16"	2-1/2"

## Power Grip Clamps

Gates Power Grip Clamps seal when heated with a standard heat gun, forming a tight band around standard rubber and silicone coolant hoses to provide a secure connection, even under harsh race conditions. Installed clamps provide a smooth, flush fit around hoses and eliminate exposed sharp edges associated with standard hose clamps. Select the band clamp which fits within range of hose O.D. for best connection. Sold each.



Part No.	Min Hose O.D.	Max Hose O.D.
<b>ALL30250</b>	1/2"	11/16"
<b>ALL30251</b>	11/16"	13/16"
<b>ALL30252</b>	13/16"	15/16"
<b>ALL30253</b>	15/16"	1-1/16"
<b>ALL30254</b>	1-1/16"	1-3/16"
<b>ALL30255</b>	1-3/16"	1-1/2"
<b>ALL30256</b>	1-1/2"	1-3/4"
<b>ALL30257</b>	1-3/4"	2"
<b>ALL30258</b>	2"	2-1/4"

Note: Clamps are not designed for use with flammable liquids or fuel line connections.

See page 105 for additional sizes.





## Expansion Tanks

Aluminum expansion tanks are commonly mounted as the highest point of the cooling system and used as a fill point on vehicles that have a low mounted radiator or when the fill point on the radiator is not accessible. The 1/2"NPT bottom supply fitting is commonly connected to the low pressure side of the cooling system and the return fitting is connected to a port located high on the engine to help release any air trapped in the system. Tanks feature a machined filler neck to accept most standard radiator caps and a 1/8"NPT port for connecting to an overflow tank.



**ALL36115**..... Tank with Attached Mounting Bracket 28-oz. Capacity with a 3/8"NPT Return Fitting

**ALL36116**..... Tank with Separate Mounting Bracket 20-oz. Capacity with a 1/4"NPT Return Fitting

## Plastic Overflow Tanks

Plastic tanks have a one-quart capacity and help prevent coolant from spilling onto the ground. Tanks have swivel fittings that accept 5/16" overflow hose and have 1/4"-20 molded inserts for easy mounting.



**ALL36154**..... Tank with Drain Valve (Non-Recovery)

**ALL36155**..... Tank with 90° Fitting (Recovery)

## Plastic Overflow Tank Brackets

Billet aluminum bracket mounts most popular plastic overflow tanks to round chassis tubing and pivot to any angle. Tank mounting holes accept 1/4" fasteners and are slotted to fit tanks with mounting holes between 3-1/2" to 4" CTC.



**ALL14200**..... Bracket for 1-1/2" Tubing

**ALL14201**..... Bracket for 1-3/4" Tubing

## Overflow Tank ALL36112

Aluminum tank has a 3/8"NPT bung on the side and a 1/2"NPT bung on the bottom that includes fitting and petcock. One-quart capacity tank can be used in many forms of competition and is mandated by most sanctioning bodies to prevent coolant from spilling on the racing surface.



## Stainless Overflow Tanks

Stainless steel tanks capture coolant overflow and recirculates it to the radiator. Machined aluminum cap twists into the filler neck and seals with an O-ring. Inlet/outlet fittings accept 1/4" diameter hose. Unit includes mounting brackets and hardware. Measurements are of tank body; add 2" for overall length.

**ALL36150**..... 2" x 13"

**ALL36151**..... 2" x 15"



## Petcock ALL99030

Replacement petcock for Allstar breather and overflow tanks is also perfect for draining coolant from engines. 1/4"NPT threads.



## Overflow Nozzles

Aluminum nozzle acts as a signal to the driver to indicate a possible overheating condition as the cooling system pushes out water. Nozzle with threaded body mounts in a body panel outside the driver's compartment and is available with a 1/4" barb or a -4AN male fitting.



**ALL30178**..... Nozzle with 1/4" Barb Fitting

**ALL30179**..... Nozzle with -4AN Male Fitting

## Radiator Overflow Fitting

**ALL99312**

Commonly used fitting threads into the filler neck on most radiators allowing connection to an overflow tank. Aluminum fitting has 1/8"NPT threads and accepts a 5/16" hose.



## Overflow Hose

Overflow hose, also referred to as fuel line is reinforced to help prevent kinking and is rated up to 50PSI. Size indicated is I.D. of hose.



Hose I.D.	3' Length	25' Length
1/4"	<b>ALL40350</b>	<b>ALL40351</b>
5/16"	<b>ALL40353</b>	<b>ALL40354</b>
3/8"	<b>ALL40356</b>	<b>ALL40357</b>

## Water Pressure Warning Kit

**ALL80250**

Warning kit senses pressure in the cooling system and alerts driver of a problem when coolant pressure drops below 4 PSI. In the event of coolant loss (i.e. blown radiator hose). The temperature gauge probe is no longer surrounded by coolant to detect the engine temperature, this will lead to a false temperature gauge reading and major engine damage.



## Temperature Gauge Probe Adapters

Aluminum adapters are a nice upgrade from brass adapters and feature a longer length for use in shallow applications when the mechanical temperature gauge probe may contact the inside of a cylinder head or intake manifold. Extra length of fitting will still allow end of probe to protrude into the coolant for accurate readings.

**ALL50203** .... 3/8"NPT

**ALL50204** .... 1/2"NPT



## Mechanical Gauges

Allstar Performance 2-5/8" mechanical gauges feature a full 270° sweeping needle, silver faced background, black bezel and are backlit for easy reading, even in low light conditions. Perfect for building custom dash panels or when adding mechanical gauges to replace existing gauges or warning lights.



See Page 70 for a Complete Listing of Gauges and Gauge Panels.



## Primary Wire

Single conductor stranded copper wire with polyvinyl insulation remains flexible and is abrasion resistant. Stranded copper is the wire of choice for many projects when building custom wire harnesses or adding accessories.



### 20AWG

Used for low-voltage sensors, indicator lights, instrument panel or dash lighting.

Color	50' Coil	100' Spool
Red	ALL76500	ALL76510
Black	ALL76501	ALL76511
White	ALL76502	ALL76512
Green	ALL76503	ALL76513
Yellow	ALL76504	ALL76514
Brown	ALL76505	ALL76515
Blue	ALL76506	ALL76516

### 14AWG

Most popular when fabricating harnesses for general use including lighting of headlights, taillights and brake lights, ignition systems and interior accessories such as radios, interior fans and gauge panels.

Color	20' Coil	100' Spool
Red	ALL76540	ALL76550
Black	ALL76541	ALL76551
White	ALL76542	ALL76552
Green	ALL76543	ALL76553
Yellow	ALL76544	ALL76554
Brown	ALL76545	ALL76555
Blue	ALL76546	ALL76556

### 12AWG

Wire can be used to supply power to ignition boxes, cooling fans, fuel pumps and other higher amperage accessories including power to electric trailer brakes.

Color	12' Coil	100' Spool
Red	ALL76560	ALL76565
Black	ALL76561	ALL76566
White	ALL76562	ALL76567
Blue	ALL76563	ALL76568

### 10AWG

Commonly used for higher amperage applications including alternator charging wire and supplying power to trailer for interior lighting or charging trailer batteries when utilizing tow vehicle charging system.

Color	10' Coil	75' Spool
Red	ALL76570	ALL76575
Black	ALL76571	ALL76576
White	ALL76572	ALL76577

## Wire and Cable Cutters ALL11003

Capable of cutting copper stranded wire from 20-gauge primary wire to 1/0-gauge battery cable. These specially designed cutters will not dent wire during cutting, which is helpful when installing connectors and building battery cables. Cutters are not designed to cut steel wire.



## Heat Sleeve

High-temperature silicone-coated fiberglass sleeving is non-flammable and resists temperatures up to 500°F. An excellent choice for protection of fuel lines, wiring, cables and various similar uses. Sleeving is resistant to gasoline and many other chemicals. Sold in 3' lengths. Size referenced is sleeve I.D. or O.D. of hose to be covered.



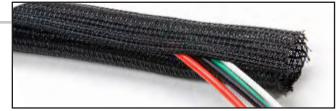
ALL34284

ALL34280 .... 1/4" Red  
 ALL34282 .... 1/2" Red  
 ALL34284 .... 3/4" Red  
 ALL34285 .... 7/8" Red  
 ALL34286 .... 1" Red

ALL34290 .... 1/4" Black  
 ALL34292 .... 1/2" Black  
 ALL34294 .... 3/4" Black  
 ALL34295 .... 7/8" Black  
 ALL34296 .... 1" Black

## Braided Wire Wrap

Split loom braided wrap is easily applied over existing hoses or wiring to conceal and protect against wear or abrasion. Wrap features a 25% overlap based on the nominal size listed, allowing the wrap to bend and flex without opening. Wrap is constructed of polyethylene material, heat resistant up to 250°F, and easily cuts with a hot knife or a soldering iron with knife attachment.



ALL76610 ..... 1/8" x 20'  
 ALL76612 ..... 1/4" x 15'  
 ALL76614 ..... 1/2" x 10'

ALL76616 .... 3/4" x 5'  
 ALL76618 .... 1" x 10'

## Spiral Wire Loom

Loom keeps wiring bundled together for a neat appearance and can be easily removed when adding or removing wires during wiring harness changes. Open design makes identifying or locating a wire simple and will not hold dirt and moisture like solid looms. Loom also provides abrasion resistance to protect wiring or hoses. High-density polyethylene material is rated from -30°F to 165°F and sold in 10' lengths.



ALL76600 .... 1/4"  
 ALL76602 ..... 1/2"  
 ALL76604 .... 3/4"

## Line Clamps

**Aluminum clamps** have a protective neoprene cushion to prevent abrasion and a 1/4" mounting hole to secure electrical wiring, hoses, or cables to a panel or frame.



**Black nylon clamps** have a 3/16" mounting hole to secure electrical wiring, hoses or cables to a panel or frame.

Clamp Size	Aluminum		Nylon	
	10-Pack	50-Pack	10-Pack	50-Pack
1/8"	-	-	ALL18309	ALL18309-50
3/16"	ALL18300	ALL18300-50	ALL18310	ALL18310-50
1/4"	ALL18301	ALL18301-50	ALL18311	ALL18311-50
3/8"	ALL18302	ALL18302-50	ALL18312	ALL18312-50
1/2"	ALL18303	ALL18303-50	ALL18313	ALL18313-50
5/8"	ALL18304	ALL18304-50	ALL18314	ALL18314-50
3/4"	ALL18305	ALL18305-50	ALL18315	ALL18315-50
7/8"	ALL18306	ALL18306-50	-	-
1"	ALL18307	ALL18307-50	ALL18317	ALL18317-50
1-1/4"	ALL18308	ALL18308-50	-	-



## Weather Pack Kits

Kits include a variety of tower housings, shroud housings, seals and terminals to build 1, 2, 3, 4, and 6 pin connectors for standard 16-14 gauge wire. Kits also include a pin removal tool and convenient carrying case.



ALL76262

**ALL76260**..... Weather Pack Starter Kit  
**ALL76262**..... Weather Pack Master Kit

Quantity ALL76260	Quantity ALL76262	Description
1	3	1-Pin Tower Housing
1	3	1-Pin Shroud Housing
2	4	2-Pin Tower Housing
2	4	2-Pin Shroud Housing
1	3	3-Pin Tower Housing
1	3	3-Pin Shroud Housing
1	2	4-Pin Tower Housing
1	2	4-Pin Shroud Housing
1	2	6-Pin Tower Housing
1	2	6-Pin Shroud Housing
40	100	Seals (50% Blue/50% Green)
40	100	Terminal Pins 16-14GA (50% Male/50% Female)
1	1	Pin Removal Tool
1	1	Carrying Case

## Weather Pack Connector Individual Kits

Weather Pack connectors are designed for harsh weather conditions. Originally used by top vehicle manufacturers, the reliability of these connectors has been proven for years and they have become common in many applications requiring a weather-proof connection. Snap-lock feature assures positive connection and allows connector to be easily separated as needed. Connectors are rated up to 20A at 12V DC and include tower housing, seals and terminals for standard 16-14 gauge wire.

**ALL76265**..... 1-Wire  
**ALL76266**..... 2-Wire  
**ALL76267**..... 3-Wire  
**ALL76268**..... 4-Wire Flat  
**ALL76269**..... 4-Wire Square  
**ALL76270**..... 6-Wire



## Weather Pack Individual Components

### Terminals and Seals, 10-Packs

Gauge	Tower (Female)	Shroud (Male)	Seal Part No.
22-20	-	-	<b>ALL76280</b> (Purple)
20-18	<b>ALL76272</b>	<b>ALL76275</b>	<b>ALL76281</b> (Green)
16-14	<b>ALL76273</b>	<b>ALL76276</b>	<b>ALL76282</b> (Gray)
12	<b>ALL76274</b>	<b>ALL76277</b>	<b>ALL76283</b> (Blue)



**ALL76284**..... Seal Plug, 10-Pack

### Housings, Each

Description	Tower (Female)	Shroud (Male)
1-Pin	<b>ALL76288</b>	<b>ALL76289</b>
2-Pin	<b>ALL76290</b>	<b>ALL76291</b>
3-Pin	<b>ALL76292</b>	<b>ALL76293</b>
4-Pin	<b>ALL76294</b>	<b>ALL76295</b>
4-Pin Square	<b>ALL76296</b>	<b>ALL76297</b>
6-Pin	<b>ALL76298</b>	<b>ALL76299</b>



## Weather Pack Terminal Tool

**ALL76264**

Tool removes male and female pin terminals from weather pack connectors without damage.



## Weather Pack Pliers

Weather pack pliers will crimp most popular 22-10 gauge non-insulated terminals. 8" overall length.



## Test Leads with Alligator Clips

30" long test leads are color coded red and black. Clips are 5-amp rated.



## Universal Wire Connectors

Molded connectors include a male and female end, joined by a loop of 16 gauge primary wire which may be cut to length. Useful for switch and gauge panels or accessories that are disconnected frequently.



**ALL76231**..... One Wire with 12" Loop  
**ALL76232**..... Two Wire with 12" Loop  
**ALL76233**..... Three Wire with 48" Loop  
**ALL76234**..... Four Wire with 48" Loop  
**ALL76235**..... Five Wire with 48" Loop

## HEI Connectors

The proper connector when repairing or wiring HEI ignition systems. Connectors have a built-in retaining clip same as originals to secure connector to ignition cap. The included pigtail wires are also the correct gauge for easy installation.



**ALL81214**..... 12V Ignition Connector  
**ALL81215**..... Tach Connector







## Storage Cases

These handy storage cases help organize many items around the shop, trailer or home such as electrical connectors, quick turn fasteners, tire groover blades, small fasteners and many more items. Curved bottom compartments create a smooth scoop, making it easy to remove the smallest of items. Molded-in dividers prevent items from slipping under dividers and accidentally mixing product.



- ALL14360**..... Plastic Case 15 Compartment, 11" x 7" x 1-3/4"
- ALL14361**..... Plastic Case 18 Compartment, 11" x 7" x 1-3/4"
- ALL14365**..... Metal Case 21 Compartment, 9-1/2" x 13-1/2" x 2"
- ALL14366**..... Metal Case 24 Compartment, 9-1/2" x 13-1/2" x 2"

## Wire Terminal Kit

### ALL76224

A 100-piece terminal kit with a generous supply of the most commonly used connectors for automotive wiring. A sturdy plastic case with divided compartments helps keep connectors organized.



#### Each Kit Includes:

22-18ga.	16-14ga.	12-10ga.
(10) Butt Connectors	(10) Butt Connectors	(10) Butt Connectors
(8) Ring Terminals #6	(10) Ring Terminals #10	(8) Ring Terminals #10
(8) Ring Terminals #8	(8) Ring Terminals 1/4"	(7) Ring Terminals 3/8"
-	(7) Female Blade	-
-	(7) Male Blade	-
-	(7) Spade	-

## Ratcheting Crimp Pliers

### ALL76220

Perform professional quality crimps on most standard electrical connectors. Pliers include jaws for 22-18, 16-14, and 12-10 gauge connectors and are easily compressed with help from the ratcheting mechanism which releases when connector is fully crimped.



## Electrical Tape ALL14280

Protect electrical connections and secure wires. 3/4" x 60' roll. UL approved.



## Terminal Connectors

Crimp style connectors work great when building custom wire harnesses or making repairs to existing wiring. Tin-plated copper terminals are available in a variety of types and sizes.



Non-insulated terminals are designed to be crimped but may also be soldered for a more secure complete connection. Often used with separate heat shrink that is applied after connection is made. Package of 20.

Non-Insulated Terminals		22-18	16-14	12-10
Butt Connectors		<b>ALL76000</b>	<b>ALL76010</b>	<b>ALL76020</b>
Ring Terminals	#6 Hole	<b>ALL76001</b>	<b>ALL76011</b>	<b>ALL76021</b>
	#8 Hole	<b>ALL76002</b>	<b>ALL76012</b>	<b>ALL76022</b>
	#10 Hole	<b>ALL76003</b>	<b>ALL76013</b>	<b>ALL76023</b>
	1/4" Hole	<b>ALL76004</b>	<b>ALL76014</b>	<b>ALL76024</b>
	5/16" Hole	<b>ALL76005</b>	<b>ALL76015</b>	<b>ALL76025</b>
Blade Terminals	3/8" Hole	<b>ALL76006</b>	<b>ALL76016</b>	<b>ALL76026</b>
	Male 1/4"	<b>ALL76007</b>	<b>ALL76017</b>	<b>ALL76027</b>
	Female 1/4"	<b>ALL76008</b>	<b>ALL76018</b>	<b>ALL76028</b>



Vinyl-insulated terminals are the most popular crimp terminal used in a variety of applications. PVC insulated sleeve is securely attached to terminal and has aared end for easy installation. Package of 20.

Vinyl Insulated Terminals		22-18	16-14	12-10
Butt Connectors		<b>ALL76030</b>	<b>ALL76040</b>	<b>ALL76050</b>
Ring Terminals	#6 Hole	<b>ALL76031</b>	<b>ALL76041</b>	<b>ALL76051</b>
	#8 Hole	<b>ALL76032</b>	<b>ALL76042</b>	<b>ALL76052</b>
	#10 Hole	<b>ALL76033</b>	<b>ALL76043</b>	<b>ALL76053</b>
	1/4" Hole	<b>ALL76034</b>	<b>ALL76044</b>	<b>ALL76054</b>
	5/16" Hole	<b>ALL76035</b>	<b>ALL76045</b>	<b>ALL76055</b>
Blade Terminals	3/8" Hole	<b>ALL76036</b>	<b>ALL76046</b>	<b>ALL76056</b>
	Male 1/4"	<b>ALL76037</b>	<b>ALL76047</b>	<b>ALL76057</b>
	Female 1/4"	<b>ALL76038</b>	<b>ALL76048</b>	<b>ALL76058</b>



Heat shrink terminals protect connections from corrosion. Terminals with attached shrink tube are adhesive lined to grip wire insulation and conform to crimp when heated, sealing out moisture. Package of 10.

Heat Shrink Terminals		22-18	16-14	12-10
Butt Connectors		<b>ALL76060</b>	<b>ALL76070</b>	<b>ALL76080</b>
Ring Terminals	#6 Hole	<b>ALL76061</b>	<b>ALL76071</b>	<b>ALL76081</b>
	#8 Hole	<b>ALL76062</b>	<b>ALL76072</b>	<b>ALL76082</b>
	#10 Hole	<b>ALL76063</b>	<b>ALL76073</b>	<b>ALL76083</b>
	1/4" Hole	<b>ALL76064</b>	<b>ALL76074</b>	<b>ALL76084</b>
	5/16" Hole	<b>ALL76065</b>	<b>ALL76075</b>	<b>ALL76085</b>
Blade Terminals	3/8" Hole	<b>ALL76066</b>	<b>ALL76076</b>	<b>ALL76086</b>
	Male 1/4"	<b>ALL76067</b>	<b>ALL76077</b>	<b>ALL76087</b>
	Female 1/4"	<b>ALL76068</b>	<b>ALL76078</b>	<b>ALL76088</b>

## Heat-Shrink Tubing

Single-wall tubing is placed over wiring and electrical connectors to seal and strengthen electrical connections. Tubing is pre-cut to 6" and has a 2:1 shrink ratio, meaning this will shrink to approximately half the size when heat is applied using a heat gun or other heat source.



### Heat-Shrink Assortment Kit

**ALL76160** ..... Includes 9 pcs. of 1/8" and 3/16", 6 pcs. of 1/4", and 3 pcs. of 3/8" and 1/2"

### Individual Sizes (Pack of 20)

**ALL76161** ..... 1/16" **NEW**      **ALL76165** .... 3/8"  
**ALL76162** ..... 1/8"                      **ALL76166** .... 1/2"  
**ALL76163** ..... 3/16"                      **ALL76167** ..... 3/4"  
**ALL76164** ..... 1/4"

## Grommet Set **ALL18360**

Grommets are perfect for protecting wiring and hoses that pass through panels up to 1/16" (.062") thick. Kit includes 36 grommets (6 of each size: 1/4", 5/16", 3/8", 1/2", 5/8", and 11/16"). Grommets are also available in size specific 10-packs.



### Individual Sizes (Pack of 10)

Part No.	Grommet Hole I.D.	Panel Hole I.D.
<b>ALL18362</b>	3/16"	5/16"
<b>ALL18363</b>	1/4"	3/8"
<b>ALL18364</b>	5/16"	7/16"
<b>ALL18365</b>	3/8"	1/2"
<b>ALL18366</b>	1/2"	5/8"
<b>ALL18367</b>	5/8"	7/8"
<b>ALL18368</b>	11/16"	1"

## Step Drill Sets

Drill multiple size holes with one bit. Drill sheet metal and aluminum without deforming or distorting. Bits start on contact, deburr, and chamfer while drilling, and does not require a center punch. Titanium nitride coated high speed steel. 1/4" shank.



ALL11041

### ALL11040 (3-Piece Set)

Drill Bit	Sizes
Six Step	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"
Nine Step	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
Thirteen Step	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"

### ALL11041 (2-Piece Set)

Drill Bit	Sizes
Eleven Step	1/4", 25/64", 35/64", 11/16", 13/16", 7/8", 1", 1-1/8", 1-7/32", 1-1/4", 1-3/8"
Twelve Step	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"

## Test Light **ALL76215**

Quickly diagnose electrical problems by testing for current in electrical circuits, relays, switches, or fuses. Handheld test light has a 36" lead wire with an insulated clip which fastens to a common ground and a sharp piercing point to probe insulated wire or terminals. Indicator light illuminates to identify powered circuits in 6-12V systems.



## Nylon Tie Wraps

Secure electrical wiring, gauge lines, and roll bar padding. 100 per bag.



### Black

**ALL14120** .... 3-1/2"  
**ALL14122** .... 5"  
**ALL14123** .... 7"  
**ALL14124** .... 11"  
**ALL14125** .... 14"

### Natural

**ALL14130** .... 3-1/2"  
**ALL14132** .... 5"  
**ALL14133** .... 7"  
**ALL14134** .... 11"  
**ALL14135** .... 14"

### Red

**ALL14126** ..... 7"  
**ALL14127** ..... 14"

### Blue

**ALL14128** ..... 7"  
**ALL14129** ..... 14"

### Yellow

**ALL14136** ..... 7"  
**ALL14137** ..... 14"

### Purple

**ALL14138** ..... 7"  
**ALL14139** ..... 14"

## Nylon Flush-Fit Tie Wraps

Flush-fit design ties have the excess portion of the tie exit in the same direction as the original tie, helping to eliminate the protruding sharp portion remaining as found in standard ties. Package of 100.



**ALL14395** ..... 8"  
**ALL14396** ..... 11"

## Nylon Tie Wraps with Mounting Holes

Built-in tab with mounting hole to easily secure wiring harnesses, hoses or cables to a panel with rivets or other fasteners. Package of 25.



**ALL14390** ..... 8" with 3/16" Mounting Hole  
**ALL14391** ..... 11" with 3/16" Mounting Hole  
**ALL14392** ..... 14" with 1/4" Mounting Hole

## Wire Tie Mounting Bases

Self-adhesive mounting bases provide a location for attaching standard wire ties to secure wiring, cables and hoses. Bases mount to clean flat surfaces and accept most standard wire ties. Package of 10.



**ALL14116** ..... 3/4" x 3/4"  
**ALL14117** ..... 1-1/8" x 1-1/8"



ELECTRICAL, GAUGES, & IGNITION

## 6-Circuit Fuse Block

### ALL76180

This fuse block is a great power distribution starting point for up to six individual circuits which are protected by ATC/ATO style fuses (sold separately). Block features a #10 power supply and six 1/4" male spade terminals for individual circuit connections. Fuse block is rated at 150 amps at 12 volts, maximum of 25 amps per circuit.



Fuses not included.

## 30-Amp Relays

Relays are commonly used to control higher amperage components such as electric fuel pumps, cooling fans or water pumps rated up to 30 amps. Relays allow the use of a lower amp switch to turn on or control a component with a higher amp draw. A connector with a wiring harness and installation instructions are included.

**ALL76186**..... Standard Relay

**ALL76188**..... Weatherproof Relay



## ATC Fuse Assortment Kit ALL76360

Kit includes an assortment of the most popular fuses in a plastic case. Kit includes 7 pcs. each of the following sizes: 5, 10, 15, 20, 25, and 30 amp.

### Individual Components (Packs of 5)

**ALL76362**..... 3 amp

**ALL76363**..... 5 amp

**ALL76364**..... 7.5 amp

**ALL76365**..... 10 amp

**ALL76366**..... 15 amp

**ALL76367**..... 20 amp

**ALL76368**..... 25 amp

**ALL76369**..... 30 amp



## Fuse Terminals

Terminals attach to cartridge style fuses installed in fuse blocks to create an additional circuit to power accessories. Terminals slide over the protected leg or "fused" side (side of fuse block that does not have power when fuse is removed) of the fuse. Package of 5.



ALL76090

ALL76091

**ALL76090**..... Mini Fuse Style Terminal

**ALL76091**..... ATC/ATO Fuse Style Terminal



## Buss Bars

Buss bars create a remote power source for powering multiple accessories. Bar features a 1/4" power supply stud and 12 separate #8 connections. Insulated base measures 5-1/4" x 1-1/8" wide and can be mounted with two #10 (3/16") fasteners. Bars include a removable protective cover and power supply boot. Protective covers are sold separately.



**ALL76170**..... Red Buss Bar Kit

**ALL76172**..... Black Buss Bar Kit

## Junction Block ALL76146

Junction block with single M10-1.50 thread (3/8") stud offers a location to power multiple accessories from one power supply or a common place to locate ground wires. Block features two mounting holes for #8 fasteners for installation on rewall or panel.



## 30-Amp Circuit Breaker

### ALL76212

Circuit breaker protects electrical circuits similar to fuses but will cool and self-reset to maintain power to critical items such as headlights or ignition systems. Use circuit breaker to power accessories in a race car and to keep constant power to ignition. Steel case and mounting bracket provide durability and ease mounting to panels. #10-32 threaded stud terminals include nuts and lock washers.



## Plunger Style Brake Light Switch

### ALL76253

Popular two terminal brake light switch found in most vehicles from the 1950's to today. Ideal for most applications, switch is spring loaded to the on position and turns off when contacted by the brake pedal assembly. Switch has 1/2" threads with jam nuts for easy mounting in a bracket, and two .250" blade type terminals.



## Lever Style Brake Light Switch ALL76250

Switch is commonly used with under-oor mounted brake pedal assemblies where switch can contact the brake pedal arm. Spring loaded switch is designed to return to the open position and has two #10-32 tapped mounting holes, 5/8" on centers. Designed for easy two wire connection, one "+" supply and the other to power brake lights or a brake light relay. Switch is rated at 4.5 amps and features two male bullet terminals.



## Pressure Activated Brake Light Switches

Switch is plumbed into the brake system and is activated by closing the electrical connection with rising brake pressure (60-120 PSI). Designed for easy two wire connection, one "+" supply and the other to power brake lights or a brake light relay. Switches are rated at 4.5 amps and have 1/8"-27 dry seal mounting threads.



ALL76252

ALL76251

**ALL76251**..... Male Bullet Terminals

**ALL76252**..... 6-32 Screw Terminals





## Battery Boxes

Universal, lightweight steel battery boxes may be welded or bolted to the frame. Boxes are available in two sizes and include hold-down hardware.



ALL76100

**ALL76100**..... 12" Wide x 7-1/4" Deep  
**ALL76101**..... 10" Wide x 7-1/4" Deep

### Replacement Components

**ALL99175**..... J-Bolts with Nuts, 1 Pair  
**ALL99177**..... Hold-Down Strap for ALL76100  
**ALL99176**..... Hold-Down Strap for ALL76101

## Bolt-On Battery Boxes

Battery box has multiple 1/2" mounting holes to bolt box directly to the frame rail, inner fender or rewall. Box can also be fastened to round tubing using clamp-on ballast brackets. Constructed of 13-gauge steel, measures 11" wide x 7" deep and includes 3/8" hold-down hardware.

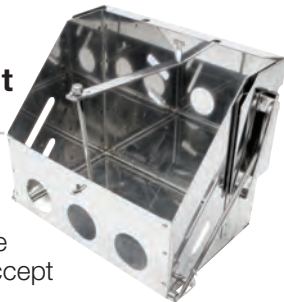


ALL76103

**ALL76102**..... Clear Zinc  
**ALL76103**..... Black

## Stainless Steel Drop-Out Battery Box ALL76105

The perfect battery box where battery mounts under floor. Eases battery service and replacement. Box is 10-1/2" wide x 7" deep x 9-1/2" tall and will accept most standard batteries.



## Battery Hold-Down Kit for Optima ALL76107

Aluminum hold-down kit provides an attractive option for keeping Optima 34/78 series batteries in place. Battery not included.



## Plastic Battery Box ALL76099

Two-piece battery box fits up to group 27 size batteries and includes nylon strap with plastic mounting brackets. Box may be bolted through the bottom for more permanent mounting. Cover is designed with quick lock snaps to keep cover securely in place. Outside box dimensions 16-1/8" x 9-5/8" x 10-7/8" tall. Inside dimensions 12-3/4" x 7-1/4" x 10" tall.



## Battery Cable Kits

Kits have everything needed to connect a top post style battery to starter and include one stranded, rope-lay copper cable for best current carrying capabilities. Kits are offered with traditional red and black cables or all black cables.

### Single Battery Kits Include:

- 15' Positive Battery Cable
- 2' Negative Battery Cable
- 1 Pair Battery Terminals
- 8 Pcs. Ring Terminals (4) 5/16" & (4) 3/8"
- 8 Pcs. Heat Shrink Tubing



ALL76110

**ALL76110** ..... 2-Gauge Cable Kit with Red and Black Cables  
**ALL76111** ..... 2-Gauge Cable Kit with All Black Cables  
**ALL76114** ..... 4-Gauge Cable Kit with Red and Black Cables  
**ALL76115** ..... 4-Gauge Cable Kit with All Black Cables

### Dual Battery Kits Include:

- 25' Positive Battery Cable
- 8' Negative Battery Cable
- 2 Pair Battery Terminals
- 14 Pcs. Ring Terminals (7) 5/16" & (7) 3/8"
- 14 Pcs. Heat Shrink Tubing



ALL76112

**ALL76112** ..... 2-Gauge Cable Kit with Red and Black Cables

## Battery Cables

Pre-made black cables are built using PVC-insulated 4-gauge copper stranded wire and include ring terminals on each end with 3/8" mounting holes. Cables are ideal for adding additional ground connections or installing remote starter solenoids. Dimensions listed are approximate center to center of terminal ends.



**ALL76341-10**..... 10"  
**ALL76341-15**..... 15"  
**ALL76341-20**..... 20"  
**ALL76341-25**..... 25"  
**ALL76341-35**..... 35"  
**ALL76341-40**..... 40"

## Ground Stud ALL76147

Steel ground stud welds to round tubing providing a secure location for mounting a negative battery cable. Weld stud directly to the chassis or create a secure ground wire location in the foot box or engine compartment. Stud accepts battery cables with 3/8" ring terminals.





## Ring Terminals

Use to repair or build custom-length battery cables, or when installing a battery disconnect switch. Terminals may be crimped or soldered to wire. Sold in pairs with heat shrink sleeving for a waterproof connection.



Wire Size	5/16" Hole	3/8" Hole	1/2" Hole
2 Gauge	<b>ALL76116</b>	<b>ALL76117</b>	<b>ALL76128</b>
4 Gauge	<b>ALL76118</b>	<b>ALL76119</b>	<b>ALL76129</b>

## Impact Crimper **ALL76135**

Excellent for permanently crimping standard cable ends to battery cables.



## Solder Slugs

Use solder slugs to secure ring terminal ends to battery cable. Individual pieces are the correct amount of solder to be used for each size of cable. Package of 10.



ALL76131

- ALL76131** ..... Slug for 2-Gauge Terminals
- ALL76132** ..... Slug for 4-Gauge Terminals
- ALL76133** ..... Slug for 6-Gauge Terminals

## Ground Straps

The number one problem with electrical systems is often related to poor ground connections. Straps are similar to OE applications which is perfect for various 6 or 12- volt grounding applications. Flexible, braided copper 12-gauge ground straps have non-insulated ring terminals on each end.



### Straps with 1/4" Ring Terminals:

- ALL76328-6** ..... 6"
- ALL76328-9** ..... 9"
- ALL76328-12** ..... 12"
- ALL76328-18** ..... 18"
- ALL76328-24** ..... 24"

### Straps with 1/4" and 3/8" Ring Terminals:

- ALL76329-6** ..... 6"
- ALL76329-9** ..... 9"
- ALL76329-12** ..... 12"
- ALL76329-18** ..... 18"
- ALL76329-24** ..... 24"

### Straps with 3/8" Ring Terminals:

- ALL76330-6** ..... 6"
- ALL76330-9** ..... 9"
- ALL76330-12** ..... 12"
- ALL76330-18** ..... 18"
- ALL76330-24** ..... 24"

## Gold Battery Terminals

Terminals are machined from solid brass stock, 24K gold plated for maximum conductivity, and feature 5/16" fasteners to secure battery cables with ring terminal ends. Top post terminals have additional provisions for attaching accessory or ground wires for a clean appearance. Sold in pairs.



ALL76120



ALL76122

- ALL76120** ..... Top Post
- ALL76122** ..... Side Post

## Battery Terminal Covers

### ALL76150

Covers slip over battery cables and cover battery terminals to prevent accidental shorting. Fit most top post mount batteries. Required by many sanctioning racing bodies. Package of 2 includes one black and one red cover.



## Battery Cable Boots

### ALL76154

Battery cable boots can be used for a variety of applications including covering battery terminals on smaller terminal batteries and starter solenoid connections. Boots have an opening that will accept up to 2-gauge cable. Sold as a pair, one red and one black.



## Battery Cable Thru-Stud

### ALL76142

Run battery cable through rewall or any body panel safely. 3/8"-16 thread.



## Firewall Cable Bushing

Mounts securely to the rewall and locks onto the wire for a waterproof and vibration-proof seal.

- ALL76137** ..... 2 Gauge
- ALL76138** ..... 4 Gauge



### WARNING: PROP. 65

The products on this page can expose you to lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)





## Battery Disconnect Switches

Battery disconnect switches shut down the vehicle in an emergency or secure it when not in use. Offered as a single and double pole version.

**Single Pole Disconnect** has two terminals and is recommended **for vehicles not using an alternator** that need the ability to be shut down in an emergency or when securing a vehicle by shutting off all power to the vehicle.

**Note:** When attempting to shut down a vehicle with an alternator using a single circuit battery disconnect, the alternator may continue supplying power to the vehicle ignition system, allowing vehicle to continue to run.

**Double Pole Disconnect** has four terminals with two separate circuits, which is recommended **for vehicles with an alternator** that need to be shut down in the event of an emergency.

### Standard-Duty Switch with Decal

Standard-duty switch mounts in a 3/4" hole in a panel up to 1/4" thick and includes a decal to indicate on/off position. Switch has 3/8"-24 terminals and is rated at 175 amps continuous duty. Double pole switch also has #10-32 studs rated at 20 amps continuous duty.



ALL80156

**ALL80156** .... Switch w/ Decal (Single Pole)

**ALL80157** ..... Switch w/ Decal (Double Pole)

### Standard-Duty Switch with Panel

Standard duty switch is pre-mounted in a 2-3/4" x 3-1/4" aluminum panel with bright screen printed graphics to indicate the on/off position. Switch has 3/8"-24 terminals and is rated at 175 amps continuous duty. Double pole switch also has #10-32 studs rated at 20 amps continuous duty.



ALL80158

**ALL80158** .... Switch w/ Panel (Single Pole)

**ALL80159** .... Switch w/ Panel (Double Pole)

### Severe-Duty Switch with Decal

Heavy-duty switch mounts in a 3/4" hole in a panel up to 1/4" thick and include a decal to indicate on/off position. Switch has 1/2"-20 terminals, is rated at 300 amps continuous duty and is sealed to resist weather and help prevent internal corrosion. Double pole switch also has #10-32 studs rated at 20 amps continuous duty.



ALL80155

**ALL80154** .... Switch w/ Decal (Single Pole)

**ALL80155** .... Switch w/ Decal (Double Pole)

### Battery Disconnect Switch with Removable Key

Battery disconnect features a removable metal key allowing vehicle to be shut down in the event of an emergency or to secure vehicle when not in use. Disconnect is rated at 160 amps continuous duty and features two 3/8"-24 terminals for installing battery cables with ring terminals. Ideal for use in street cars as a theft deterrent.



ALL80153

**ALL80152** ..... Switch w/ Decal

**ALL80153** .... Switch w/ Panel

### Battery Disconnect Boots

Protect the terminals on battery disconnects from being accidentally shorted.



**ALL76152** ..... Red, 2-Pack

**ALL76153** ..... Black, 2-Pack

### Battery Disconnect Switch Mounting Bracket

**ALL60365**

Steel weld-on bracket provides a secure mounting location for most battery disconnect switches so they can be mounted directly to the cage within easy reach of the driver or track safety team in the event of an emergency. The dual mount bracket is pre-notched for welding to 1-1/2" round tubing (easily modified to other sizes) and features a 3/4" mounting hole for most battery disconnect switches.



### Battery Disconnect Panel **ALL80129**

Aluminum panel is pre-drilled and labeled with on/off to easily identify the position of most standard battery disconnects. Panel features four 3/16" mounting holes and a 3/4" disconnect mounting hole.



### Battery Disconnect Decal

**ALL99045**

Required by most sanctioning bodies to help track and safety crew identify the battery disconnect switch in the event of an emergency. Replacement vinyl decal works for most battery disconnects.



#### **WARNING: PROP. 65**

The products on this page can expose you to lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)





### Street Performance Chevy Mini-Starter **ALL80525**

SB Chevy clockable starter has twelve mounting positions and is a good choice for street or crate engines. Starter has 1.4kw permanent magnet and weighs only 7.5 lbs. Clears most kickout oil pans and works with 153- and 168-tooth ywheels or eplates. Use with compression ratios up to 10.5:1. Mounting bolts and shim kit included.



### Chevy Mini-Starter **ALL80520**

It's smaller, lighter and offers several mounting options. Perfect starter for race cars with clearance problems in the chassis or around header pipes. Chevy 153- and 168-tooth applications. Starter has 1.4kw permanent magnet, weighs just 9.6 lbs. and includes bolts and shims.



### Chevy Mini-Starter **ALL80515**

3HP high-torque gear reduction, block mount Chevy mini-starter. In-line mounting block will t either 153- or 168-tooth ywheels and has rotation holes for added clearance. Mounting bolts and shim kit included.



### GM LS Mini-Starter **ALL80516**

Block mount GM LS gear reduction mini-starter works with 168-tooth ywheels and provides increased starting performance over OE style starters. Starter features a 3-position mounting block which allows the starter motor to be rotated for additional clearance around exhaust and frame obstructions. A high-torque, 3HP motor combined with 3.75:1 gear reduction is ideal for engines with up to 11:1 compression ratio. Mounting hardware and shims not included.



### Heavy-Duty Bert/Brinn Starter **ALL80532**

Heavy-duty starter with a 3HP motor is designed to handle up to 16:1 compression engines.



### Bert/Brinn Starter **ALL80530**

Bert/Brinn Starter can handle up to 16:1 compression. 4.4:1 gear reduction starter has a 1.4kw motor that produces 1.9 hp and 200 ft./lbs of torque.



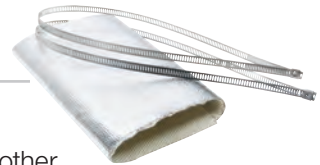
### Starter Cover **ALL26236**

Protective water repellent cover for the ALL80530 Bert/Brinn style starter helps prevent dirt and water from entering starter motor causing premature damage to starter. Nylon cover features an elastic band to t tightly around starter body and a terminal window with openings for solenoid connections.



### Universal Heat Wrap **ALL34238**

Heat-resistant material measures 7" x 22", making it ideal for wrapping starter motor or other components that are close to high heat areas. Wrap features a re ective material on one side to protect against radiant heat and includes two 24" long stainless steel tie wraps for securing material.



### Starter Solenoid **ALL76203**

Ford-style solenoid is perfect for use with high torque racing starters. Flat base eases mounting, and a remote under-hood starter switch or timing light hook-up can be easily adapted. Solenoid is offered separately, or may be ordered with installation kit (ALL76202) that includes wiring, terminals, and hardware.



### Solenoid and Installation Kit **ALL76202**

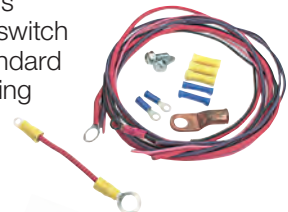
Relocate starter solenoid away from direct engine heat to provide easy access and eliminate hot start problems common on General Motors vehicles. An under-hood starter switch can also be added. Includes standard duty, Ford-style solenoid, mounting screws, terminals, and wiring kit.



### Individual Component **ALL76201**..... Installation Kit Only

### Solenoid Jumper Wires

Jumper wire completes the circuit to the starter solenoid when using remote mounted solenoids such as ALL76203.



- ALL76208**..... Jumper Wire with Spade Terminal
- ALL76209**..... Jumper Wire with Ring Terminal

## Electrical Outlets

Universal outlets provide remote 110V connection when powering block heaters, tank heaters or other accessories mounted in a race car. Outlets accept standard three prong extension cords and mount directly into decking or to a chassis mounted bracket. ALL76432 and ALL76436 outlet kits are prewired with 5 feet of 14 AWG wiring.



ALL76436

- ALL76430** .... Outlet
- ALL76432**..... Outlet w/Wiring
- ALL76434** .... Covered Outlet
- ALL76436** .... Covered Outlet w/Wiring

## Brackets for Electrical Outlet And Quick Disconnect

Steel bracket mounts to the chassis, providing a single convenient location to install an electrical outlet and a battery quick disconnect (ALL76320).



ALL60352

- ALL60352** .... Weld-On Bracket
- ALL60353** .... Bolt-On Bracket

Electrical Connectors Sold Separately



## Battery Quick Disconnects

Disconnects provide a connection for battery charging, or for quick battery changes during a race. Prevent accidental reverse polarity. Choose from 50- or 175-amp ratings. Sold in pairs and include cable terminals.



- ALL76320**..... 50-Amp Gray Disconnects, 1 Pair
- ALL76322**..... 175-Amp Red Disconnects, 1 Pair

### Replacement Components

- ALL76321**..... 6-Gauge Terminals for ALL76320, 1 Pair
- ALL76323**..... 2-Gauge Terminals for ALL76322, 1 Pair

### Related Components

- ALL76133**..... Solder Slugs for 6-Gauge Terminals 10pk
- ALL76131**..... Solder Slugs for 2-Gauge Terminals 10pk

## Bracket for Quick Disconnects

### ALL60350

Steel bracket mounts battery disconnect (ALL76320) to the bend on the underside of deck panels found on Late Models and Modifieds.



## Quick Disconnect Covers

Covers install over the end of the quick disconnects to help prevent dirt and debris from entering the connections. Covers have a built in lanyard to keep the cover close to connector and for easy assembly.



- ALL76324**..... Cover for 50-Amp Quick Disconnect
- ALL76325**..... Cover for 175-Amp Quick Disconnect

## Remote Starter Button

### ALL76206

Remote button is helpful when performing valve lash maintenance if the ignition panel can't be reached. Leads are 60" long and come complete with gator clamps to connect to starter solenoid.



## Quick-Connect Battery Charging Posts

Two-piece, color-coded connectors make safe, out-of-car connection to battery charger quick and easy. Female ends have 1/2"-20 threaded studs that connect to battery cables and pass through a 5/8" hole in a panel up to 1/8" thick. Male ends of connectors fit on battery charger cables. Shafts are tapered for tight, secure connections.

- ALL76300** .... Red
- ALL76310**..... Black
- ALL76301**..... Red Female Connector Only
- ALL76302**..... Red Male Connector Only
- ALL76311** ..... Black Female Connector Only
- ALL76312**..... Black Male Connector Only



## Battery Charging Posts

Mount remote charging posts through a body panel for access to battery terminals and quick, easy battery charging. Posts have 3/8" studs and have color-coded caps for safety. Posts require a 1.25" mounting hole.

- ALL76139**..... Kit (1 Red and 1 Black)
- ALL76140**..... Red Post Only
- ALL76141** ..... Black Post Only



## Charging Post Bracket ALL60064

Securely mount Allstar charging posts on vehicles where battery is not easily accessible. Pre-drilled holes allow quick mounting to frame or body. Double-D hole design positions posts close together, but provides enough room for charging or jumper cable clamps. Charging posts sold separately. (ALL76140 and ALL76141).



## GM Single Wire Alternators

Completely remanufactured GM Delco single wire alternators are easily hooked up. Housings are natural finish aluminum. Choose from 63- or 80-amp capacities.



ALL80500

- ALL80500** .... 63 Amp, Full Size, 10.3 Lbs.
- ALL80501** .... 80 Amp, Compact Size, 9 Lbs.

## GM Single Wire Chrome Alternator ALL80505

Chrome finish, single wire GM alternator with aluminum housing has a 100-amp capacity.







## Gauge Panels

Gauge panels are completely assembled, pre-wired, and include lighted mechanical gauges, warning indicator lights with senders to alert you of problems, detailed instructions and installation template. Select from panels fitted with Allstar, AutoMeter Sport-Comp or Pro-Comp liquid-filled 2-5/8" gauges. Panels are available in two-, three-, or four-gauge configurations.

Note: Pressure gauges feature a male 1/8"-27 NPT port fitting, adapter fittings and line kits sold separately.

Note: Fuel pressure isolator such as AutoMeter ATM5282 or QuickCar QRP61-300 is always recommended when mounting a fuel pressure gauge inside vehicle.



Part No.	Description
<b>Allstar</b>	
<b>ALL80090</b>	2-Gauge Panel (OP/WT)
<b>ALL80091</b>	3-Gauge Panel (OP/WT/OT)
<b>ALL80092</b>	3-Gauge Panel (OP/WT/FP)
<b>ALL80093</b>	4-Gauge Panel(OP/WT/OT/FP)
<b>AutoMeter Sport Comp</b>	
<b>ALL80110</b>	2-Gauge (OP/WT)
<b>ALL80113</b>	3-Gauge (OP/WT/FP)
<b>ALL80114</b>	4-Gauge Panel (OP/WT/OT/FP)
<b>AutoMeter Pro-Comp (Liquid Filled)</b>	
<b>ALL80120</b>	2-Gauge (OP/WT)
<b>ALL80123</b>	3-Gauge (OP/WT/FP)

## Mechanical Gauges

Allstar Performance 2-5/8" mechanical gauges feature a full 270° sweeping needle, silver faced background, black bezel and are backlit for easy reading even during low light conditions. Perfect for building custom dash panels or when adding mechanical gauges to replace existing gauges or warning lights.



- ALL80095** .... Oil Pressure Gauge 0-100 PSI
- ALL80096** .... Water Temperature Gauge 140-280°F
- ALL80097** .... Oil Temperature Gauge 140-340°F
- ALL80098** .... Fuel Pressure Gauge 0-15 PSI
- ALL80099** .... Volt Gauge 8-18V

Note: Pressure gauges feature a male 1/8"-27 NPT port fitting, adapter fittings and line kits sold separately.

## Gauge Kits

Kits include all the components of our popular gauge panels while offering the flexibility of installing gauges and warning lights into a custom dash or prefabricated dash panel. Kits feature 2-5/8" 270° sweeping mechanical gauges which are pre-wired with warning indicator lights and senders to alert you of problems.

- ALL80080** .... 2-Gauge Kit OP/WT
- ALL80081** .... 3-Gauge Kit OP/WT/OT
- ALL80082** .... 3-Gauge Kit OP/WT/FP
- ALL80083** .... 4-Gauge Kit OP/WT/OT/FP

Note: Pressure gauges feature a male 1/8"-27 NPT port fitting, adapter fittings and line kits sold separately.



## LED Bulbs for Gauge Panels

### ALL99147

LED bulbs offer a brighter lighting solution and will hold up much longer than standard incandescent bulbs on 16 volt systems. Bulbs replace standard 53 bulbs and gauge backlight and warning light sockets on all Allstar gauge panels. Package of 2.



## Warning Lights

Warning lights or indicator lights inform the driver of a possible problem before major damage occurs when used with temperature or pressure switches. Lights snap into a 3/4" hole in material up to .065" thick. Lights have standard male blade electrical connections and are designed for 12V systems.



- ALL99062** .... Amber Light
- ALL99063** .... Blue Light
- ALL99064** .... Green Light
- ALL99065** .... Red Light

## Temperature Switches

Temperature switches are commonly used to turn on indicator lights to warn the driver of a possible overheating condition. Switches complete a circuit to ground when the pre-set temperature is reached so they may also be used to control a relay for electric fans. Switches have male 1/2"-14NPT threads and a standard male blade electrical connector.



- ALL99057** .... 235°F
- ALL99056** .... 280°F

## Pressure Switches

Pressure switches are commonly used to turn on indicator lights warning of a low pressure condition to help prevent engine damage. Switches complete a circuit to ground until the pre-set pressure is reached. Switches have male 1/8"-27NPT threads and a standard male blade electrical connector.



- ALL99058** .... 4 PSI
- ALL99059** .... 20 PSI

## Water Pressure

### Warning Kit ALL80250

Warning kit senses pressure in the cooling system and alerts driver of a problem when coolant pressure drops below 4 PSI. In the event of coolant loss (i.e. blown radiator hose), the temperature gauge probe is no longer surrounded by coolant to detect the engine temperature. This will lead to a false temperature gauge reading and major engine damage.



## Tel-Tac Mount ALL81332

Aluminum mount accepts Tel-Tac digital tachometers and recesses into a dash for clean finished look. Mount attaches to backside of dash with quick turn fasteners (buttons sold separately) for simple tachometer removal and installation.







## Switch Panels

Designed with the racer in mind, panels feature well marked switches and indicator lights. Units are completely wired for easy installation and include detailed instructions. Choose from panels with standard or weatherproof switches.

### Switch Panels with Standard Switches



ALL80140  
ALL80150

ALL80141

ALL80142

ALL80146

- ALL80140**..... Panel without Light
- ALL80141**..... Panel with Flip-Up Cover
- ALL80142**..... Panel with Light, One Switch
- ALL80146**..... Panel with Lights, Two Switches
- ALL80150** .... Magneto Ignition Panel

### Switch Panels with Weatherproof Switches



ALL80160

ALL80162

ALL80164

- ALL80160** .... Panel without Light
- ALL80162** .... Panel with Light, One Switch
- ALL80164** .... Panel with Two Lights, Two Switches

## Weatherproof Switch Panel ALL80165

Compact three switch panel has sealed weatherproof toggle switches for use in open cockpit vehicles or when exposed to harsh conditions. Panel measures 2-1/2" tall x 4-5/8" wide and includes one momentary start switch, one ignition switch and one accessory switch. Switches are rated up to 20 amps and each circuit includes 60" of 14AWG wire for easy connections.



## Fused Switch Panel ALL80138

Universal 4" x 7" switch panel includes one momentary start switch, one fused ignition switch and four fused accessory switches. Ideal for many motorsports applications, this panel features separately fused and switched circuits for a variety of uses including electric fuel pumps, water pumps, cooling fans, brake duct fans, and lighting. Individual circuits are rated up to 20 amps and include pre-terminated pigtails for easy connection.



## Spiral Corded Momentary Buttons

Buttons are designed for fast, consistent and reliable trans-brake release. Sealed spiral cord leads are ideal for steering wheel mounting or into a 5/8" hole. Momentary buttons may also be used in many other applications such as nitrous and line lock systems. 18" spiral cords stretch to approximately 5'.



- ALL80180** .... Cord with Small Green Button
- ALL80181**..... Cord with Large Red Button

## Heavy Duty Toggle Switches

On/off, two-position toggle switches are used in Allstar Performance ignition panels. Rated up to 20 amps.



ALL80176  
ALL80177

- ALL80175**..... Standard Switch
- ALL80176**..... Weatherproof Switch
- ALL80177**..... Weatherproof Switch Momentary Start/Return to Off

## Toggle Extensions

Toggle extensions increase the length of toggle switches in Allstar switch panels and other switches with a standard type end. Push-on extensions are 1-7/8" long, offered in red or black. Package of 2.



- ALL80167** .... Red
- ALL80168** ... Black

## Toggle Switch Cover ALL99068

Cover fastens onto the front of most standard-length toggle switches to help seal out the elements. Cover features a molded-in brass nut to secure tight to the switch.



## Starter Button ALL99069

This same momentary-on starter button used in Allstar Performance switch panels is a good alternative to a key style starter switch. Button mounts in a 5/8" hole and has #8 terminal mounting screws. Rubber boot threads on after installation to help seal out the elements.



## Remote Starter Button Shroud Kits

Kit mounts a remote starter button directly to chassis tubing. Kit includes a shroud to help protect against accidental activation, tab, and starter button.



- ALL60360** .... Welded Kit
- ALL60361** .... Unwelded Kit

## Indicator Lights

Indicator lights are used in Allstar Performance ignition panels to indicate when the ignition or an accessory is on. Lights may be used in a variety of other applications as needed. Lights snap into 1/2" holes in up to 0.065" thick material, have ring terminal connectors and are designed for 12V systems.



- ALL99066** ... Red Indicator Light
- ALL99146**.... Green Indicator Light



### Street/Strip Distributors

These distributors are a great choice for street/strip applications. A performance distributor combined with the added benefit of an adjustable vacuum advance for street use. Simple three-wire connection only requires a 12V power source and an external coil such as the ALL81232, which is designed specifically for ready to install distributors. The small bodied design is perfect for early muscle cars where firewall clearance is often a concern. CNC-machined 6061-T6 aluminum housing has a sealed upper support bearing and an extra-long lower bronze bushing for smooth operation and accurate timing at higher RPMs. Distributors include a molded cap and rotor with brass and stainless steel contacts, a vacuum advance lock out, a mechanical curve kit with advance springs and stop bushings, spark plug wire retainer cap with screws, and instructions.



- ALL81222**..... Chevrolet V8\*
- ALL81240**..... Ford V8 221-302 (Non-EFI)
- ALL81242**..... Ford V8 351W
- ALL81244**..... Ford 351C, 400C/M, 429-460
- ALL81252**..... Ford V8 332-428 FE
- ALL81254**..... Pontiac V8 326-455

\*Excluding 348-409 CID

Note: Chevrolet distributors include melonized drive gears compatible with most tappet or hydraulic roller camshafts. If used with a mechanical roller camshaft, a bronze or other compatible gear should be used as recommended by cam manufacturer.

### Replacement Components



- ALL81224**..... Cap and Retainer (Chevrolet)
- ALL81226**..... Cap and Retainer (Ford)
- ALL81225**..... Rotor
- ALL81228**..... Magnetic Pick-Up
- ALL81229**..... Complete Module Assembly Chevrolet
- ALL81227**..... Complete Module Assembly Ford

### High-Output Coil ALL81232

High-output coil is specifically designed for use with the high-output inductive storage ignition module found in Allstar Performance Street/Strip series distributors. Delivering up to 40,000 volts, this coil has a male secondary tower which offers superior boot and terminal retention and brass primary terminals for maximum conductivity. Includes mounting hardware, ring terminals, and high temperature silicone boot.



### High-Performance Distributors for Use with Ignition Box

This high-performance distributor is an excellent choice for many types of motorsports. Requires an aftermarket ignition box (such as an MSD, Accel, Crane or Mallory) and an external coil such as ALL81230. Housing is CNC-machined 6061-T6 aluminum with an upper support bearing and an extra-long lower bronze bushing for smooth operation and accurate timing at higher RPMs. Distributor includes a molded cap and rotor with brass and stainless steel contacts, a mechanical curve kit with advance springs and stop bushings, manifold gasket, housing O-rings, spark plug wire retainer cap with screws, and instructions.



- ALL81220**..... Chevrolet V8\*
- ALL81216**..... Chevrolet V8\* w/Vacuum Advance
- ALL81221**..... Chevrolet V8\* w/Adjustable Collar
- ALL81218**..... Chevrolet V8\* w/Adjustable Collar, Dual Pick-Up
- ALL81246**..... Ford V8 221-302 (Non-EFI)
- ALL81248**..... Ford V8 351W
- ALL81250**..... Ford V8 351C, 400C/M, 429-460

\*Excluding 348-409 CID

Note: Chevrolet distributors include melonized drive gears compatible with most tappet or hydraulic roller camshafts. If used with a mechanical roller camshaft, a bronze or other compatible gear should be used as recommended by cam manufacturer.

### Replacement Components



- ALL81224**..... Cap and Retainer (Chevrolet)
- ALL81226**..... Cap and Retainer (Ford)
- ALL81225**..... Rotor
- ALL81228**..... Magnetic Pick-Up

### CD Ignition Coil ALL81230

High-output ignition coil is specifically designed for use with capacitive discharge ignition systems. 40,000 volt coil is recommended for use with Allstar Performance HP series distributors. Sturdy, high-impact housing is epoxy filled to protect against vibration. Extruded aluminum bracket eases mounting. Mounting hardware, anti-vibration mounting pads, ring terminals, and high temperature silicone boot are included.



### Jeep/AMC 6-Cylinder Performance Distributor ALL81255

Replace troublesome point or OE computer-controlled distributors in most 3.8L and 4.2L engines with a more reliable electronic ignition distributor, plus an adjustable vacuum advance. Three-wire connection requires only a 12V power source and an external coil such as the ALL81232 or ALL81234.





## Chevy HEI Performance Distributors

Distributors have high-output coils and adjustable vacuum advances, perfect for upgrading stock HEI distributors for higher RPM. Fit small and big block Chevy (except 348 and 409). Housings are CNC-machined 6061-T6 aluminum with an upper support bearing to provide accurate timing at higher RPM. Include snap-on spark plug wire retainer and instructions.

**ALL81200** .... Distributor with Red Cap  
**ALL81202**..... Distributor with Black Cap

### Replacement Component



**ALL81204**..... Distributor Cap, Red  
**ALL81205**..... Distributor Cap, Black  
**ALL81206** .... Distributor Rotor  
**ALL81207**..... Coil  
**ALL81208**..... Module  
**ALL81210**..... Coil Cover, Red  
**ALL81211**..... Coil Cover, Black  
**ALL81212**..... Wire Retainer, Red  
**ALL81213**..... Wire Retainer, Black

## HEI Connectors

The proper connector when repairing or wiring HEI ignition systems. Connectors have a built-in retaining clip same as originals to secure connector to ignition cap. The included pigtail wires are also the correct gauge for easy installation.

**ALL81214**..... 12V Ignition Connector  
**ALL81215**..... Tach Connector

## HEI Advance Curve Kit

**ALL81300**

Advance kit fits all '74-79 GM HEI distributors except those that are computer controlled. Includes two weights, center plate, three sets of color-coded springs, two pairs of nylon bushings, and complete instructions.

## Chevy Distributor/Magneto Hold-Down ALL27500

Aluminum hold-down fits most aftermarket distributors and magnetos. An Allen head bolt prevents distributor from turning in the clamp so distributor can be removed and reinstalled without resetting the timing. Fits all Chevy V8 except 348-409. Will not fit Mallory magnetos.



ALL81200

## Low-Pro le Chevy Distributor Hold-Down ALL27505

Strong steel hold-down clamp with gold iridite finish fits small and big block Chevy V8 and 90° Chevy V6. Flat design provides extra distributor clearance and easy access to hold down fastener. Stud and nut included.



## Chevy Distributor Hold-Down

Aluminum hold-down keeps distributor secured at high RPM. Fits small or big block Chevy V8 and 90° Chevy V6. Stainless steel stud, nut and washer are included. Choose blue, clear, or red anodized.



**ALL27502** .... Blue Chevy Distributor Hold-Down  
**ALL27503** .... Clear Chevy Distributor Hold-Down  
**ALL27504** .... Red Chevy Distributor Hold-Down

## Chevy Iron Distributor Gears

Melonized or Melonite coated gears are direct replacement for Allstar Performance and other stock and performance distributors. Iron gears are suitable for applications using high-volume oil pumps.

**ALL81308** .... 0.491" Dia. Shaft Chevy V8  
**ALL81309** .... 0.500" Dia. Shaft Chevy V8



## Chevy Bronze Distributor Gears

When installing a steel billet roller camshaft, a bronze distributor gear must be installed in place of the original cast iron gear. Gears made of premium aluminum bronze offer high strength to withstand the stresses created by high-pressure oil pumps. Roll pins are included.

**ALL81310**..... 0.491" Dia. Shaft Chevy V-8  
**ALL81311** ..... 0.500" Dia. Shaft Chevy V-8



## Spark Plug Gap Tool ALL96515

Tool properly cradles the spark plug to consistently set plug gaps using a standard feeler gauge. Insert plug into holder, place desired thickness of feeler gauge between ground strap and electrode then gently turn the knob until feeler gauge is snug.



## Spark Plug Gap Tool Kit ALL96516

Spark plug gap tool quickly and accurately gaps 14mm threaded spark plugs. Thread spark plug into tool, place the correct size feeler gauge beneath the ground strap then tighten knob to set plug gap. Includes 17 different feeler gauge sizes 0.010" thru 0.035".







## Spark Plug Index Shims

Stackable shims index spark plugs at 30° intervals up to 360°, properly positioning ground strap in cylinder head for increased power and clearance between spark plug and piston. Shims are intended for use with 14mm fl t seat spark plugs only. Package of 24 shims contains 12 silver 60°, 12 black 90°, detailed instructions, and dial chart.



**ALL96505** .... Shim Kit, Standard O.D. (0.800")

**ALL96506** .... Shim Kit, Small O.D. (0.720")\*

\*Shims are designed for close tolerance spark plug pockets such as those on ALL-PRO cylinder heads.

## Spark Plug Indexing Tool **ALL96510**



Indexing positions the ground strap of the spark plug properly for best piston dome clearance and un-shrouds the electrode for a more even burn and possible gains of 5-15 horsepower. Works with flat gasket or taper seat 14mm spark plugs. Includes instructions.

## Coil Wire Kits

Kit includes 36" of 8mm spiral core race wire, ends, connectors, and wire stripping/crimp tool.



**ALL81380** .... Kit without Sleaving

**ALL81381** ..... Kit with Sleaving

## Coil Wires



Pre-terminated versions of our 8mm sleeved coil wires found in our kits and sets feature ends for HEI tower style terminals. Often overlooked when performing maintenance or diagnosing a problem, coil wires are susceptible to damage or weakening over time.

**ALL81382-12** ..... 12"

**ALL81382-18** ..... 18"

**ALL81382-24** ..... 24"

**ALL81382-36** ..... 36"

**ALL81382-42** ..... 42"

## Spark Plug Race Wire Sets

Custom length SBC wire sets feature 8mm spiral core race wire with pre-terminated ends and universal coil wire. Sets feature shrink sleeved ends and cylinder identification numbers.



**ALL81365** ..... Set without Sleaving, Under Header

**ALL81366** ..... Set without Sleaving, Over Valve Cover

**ALL81370** ..... Set with Sleaving, Under Header

**ALL81371** ..... Set with Sleaving, Over Valve Cover

## Universal Spark Plug Race Wire Sets

Universal length 8mm spiral core wire sets include a non-terminated end, ends, and boots for a build-to-length option.



**ALL81360** .... Set with 90° HEI Ends

**ALL81361** ..... Set with 135° HEI Ends

## Spark Plug Boot Sleeves

Fiberglass braided sleeves are heat resistant to protect spark plug boots from header heat up to 1,200°F. 7-1/2" long sleeves slide over a variety of boots.



**ALL34272** .... Natural, 8-Pack

**ALL34273** .... Natural, 2-Pack

**ALL34274** ..... Black, 8-Pack

**ALL34275** .... Black, 2-Pack

## SB Chevy Spark Plug Wire Loom Set

**ALL81340**

Polished aluminum spark plug wire looms fits wires up to 9.5mm. Includes mounting hardware. Engines with center bolt style valve covers require ALL81341 mounting kit. Package of 2.



Note: May not clear oil dipstick or exhaust manifolds on some later model engines with "log" style manifolds.

### Related Component

**ALL81341** ..... Mounting Kit For Centerbolt Covers



ALL81341

## Spark Plug Wire Separator Set **ALL81345**

Black plastic set will fit up to 9mm wires. Includes two of each 2-, 3-, and 4-hole separators.



## Spark Plug Wire Retainer

**ALL81350**

No more melted plug wires from hot exhaust. These aluminum retainers will neatly mount separated 4-wire sets to the front or rear of cylinder head. Package of 2.



### CD Ignition Coil **ALL81230**

High-output ignition coil is specifically designed for use with capacitive discharge ignition systems. 40,000 volt coil is recommended for use with Allstar Performance HP series distributors. Sturdy, high-impact housing is epoxy filled to protect against vibration. Extruded aluminum bracket eases mounting. Mounting hardware, anti-vibration mounting pads, ring terminals, and high-temperature silicone boot are included.



### High-Output Coil **ALL81232**

High-output coil is specifically designed for use with the high-output inductive storage ignition module found in Allstar Performance Street/Strip series distributors. Delivering up to 40,000 volts, this coil has a male secondary tower which offers superior boot and terminal retention and brass primary terminals for maximum conductivity. Includes mounting hardware, ring terminals, and high-temperature silicone boot.



### Canister Style Ignition Coil **ALL81234**

45,000 volt, oil-filled coil for electronic breakerless ignitions has low primary resistance and 112:1 turn ratio for improved throttle response and more power at higher rpms. Coil fits all standard O.E.M. brackets or Allstar ALL81324 coil bracket.



### Coil Mounting Bracket **ALL81324**

Aluminum canister style coil mounting bracket features a flat mount for securing to a flat panel or firewall. Bracket includes a tension screw to secure coil in bracket before mounting.



### Universal Coil Mounting Bracket **ALL81326**

Universal bracket is an OE style bracket that mounts canister style coils to some popular V8 intake manifolds or may be used to mount coil to a flat panel or firewall. Bracket includes a tension screw to secure coil in bracket before mounting.



### LS Ignition Coils



Direct replacement 40,000V coils are a good choice when upgrading the OE ignition system in high-performance applications or when power adders are used. Sold each.

**ALL81400** ..... 1997-05 LS1/LS6 (Delco D580)

**ALL81401** ..... 1999-07 4.8/5.3/6.0L Truck (Round Style Delco D585)

**ALL81402** ..... 1999-07 4.8/5.3/6.0L Truck (Square Style Delco D581)

**ALL81403** ..... 2005-13 4.8/5.3/6.0/6.2/7.0L (Delco D510C/D514A)

### LS Coil Mounting Brackets **ALL26212**

OE style steel mounting brackets fit OE and fabricated valve covers with factory mounting bosses and have a black epoxy-coated finish. Brackets are for use with Delco D580 Coils (ALL81400).



### Remote Mount LS Coil Brackets

Designed for remote mounting LS Coils. Black anodized billet aluminum brackets come complete with stainless hardware and standoffs for easy removal.



ALL 26217

**ALL26216**..... Fit Delco D580, LS1/LS6 Coils (ALL81400)

**ALL26217**..... Fit Delco D581 and D510C, LS2,LS3,LS7 Coils (ALL81402 & ALL81403)

### MSD/FAST Ignition Box Mount **ALL81330**

Box mount provides a quick release method for replacing MSD or FAST ignition boxes with 7-1/2" x 3-1/2" or 4-1/8" x 6-1/2" center to center mounting dimensions. Kit includes aluminum box mount, (4) quick turn fasteners, springs, and 1/8" aluminum rivets.





## LS Oil Pan Kits

Cast aluminum oil pan kits ease the installation of LS series engines into early production vehicles by providing additional clearance between the oil pan and frame crossmember. Kits include oil pan, pick-up tube, gaskets, and mounting hardware required for installation.



ALL26240

Note: These kits may not fit all applications; additional engine mount adapters and possible frame modification may be required for installation in some vehicles.

- ALL26240 .... Natural
- ALL26241 .... Black

## 6-Qt. Claimer Oil Pans and Pick-Ups

Small block Chevy pans have a 6-quart capacity and are 7" deep. Two swinging trap doors and a built-in baffle provide consistent oil control. Oil pans fits pre-'86 blocks with 2-pc rear main seal.



ALL26132

- ALL26132 .... L.H. (Driver's Side) Dipstick
- ALL26133 .... R.H. (Passenger's Side) Dipstick
- ALL26134 .... Pick-Up for Use with Standard Volume Pumps
- ALL26135 .... Pick-Up for Use with High Volume Pumps

## Magnetic Drain Plug ALL87040

Replacement plug for standard 1/2"-20 drain holes has a magnetic end to capture small particles in oil or to help identify a problem early.



## Engine Diaper

### ALL69011

Engine diaper will help contain engine oil and fragments if an engine failure occurs. Increase safety and reduce the chance of control loss due to debris on the racing surface. Diaper wraps around oil pan and secures to header bolts. Diaper is NHRA approved but is not designed for vehicles that require SFI approved diapers. Diaper features a sewn-in, non-replaceable oil absorbent pad and is 23" long x 12-1/2" high x 12" wide.



### Replacement Components

- ALL99043 .... Tabs, 4-Pack
- ALL99347 .... Buckle, 1 Set
- ALL69013 .... Engine Diaper Pad, 22" x 30"



## SB Chevy Rear Main Seal Adapters

Billet aluminum adapter allows installation of a two-piece style crankshaft seal and early (pre-1986) crankshaft into a 1986 and newer SB Chevy (pre-LS) engine. Adapters include mounting hardware. Alignment tool ALL26127 (sold separately), is recommended to ensure proper installation and centering of adapter plate.



ALL26125

ALL26126

ALL26127

- ALL26125 .... Seal Adapter for Early (Pre-'86) Oil Pan
- ALL26126 .... Seal Adapter for Late (86'-Up) Oil Pan
- ALL26127 .... Alignment Tool

## Balancing Plate ALL26120

Plate is installed between crankshaft angle and the flywheel allowing a popular internally balanced Chevy 350 flywheel to be used with an externally balanced 400 crankshaft. Note: These are not designed to be used with an automatic transmission splat.



## Plastigage® Kit ALL96475

Plastigage strings are a simple and accurate way to verify crankshaft, main, and rod bearing clearances. Kit includes two green .001" to .003" and one red .002" to .006" (12" long strings) individually packaged inside calibrated sleeves. Detailed instructions are included.



## In-Line Oil Filter

Aluminum in-line oil filter includes a specially made hi-flow WIX brand filter element that has a 47-micron rating capable of flowing 30GPM. Filter features a CNC-machined clear anodized housing which is 7-3/4" long x 2-1/2" in diameter with removable O-ring sealed end caps for easy disassembly and cleaning.



Note: Not recommended for dirt racing applications, the high-flow capacity of this filter will not stop small contaminants found in dirt racing.

- ALL92040 .... -16AN
- ALL92041 .... -12AN

### Replacement Component

- ALL92043 .... Filter Element

## Oil Filter Cutter

### ALL10538

Tool removes the outer shell of most spin-on style engine oil filters to inspect the filter material for contamination or debris.





## Oil Filter Adapters

Oil filter adapters are OE style replacement mounts for securing oil filter to engine block or oil pan when rebuilding or replacing an engine.



- ALL92000** .... 1968-96 SB Chevy Including LT1 and 1968-90 Gen IV BB Chevy Engines Aluminum adapter with bypass valve bolts to block and has 13/16"-16 threads to accept oil filter.
- ALL92001** .... Bolt kit for ALL92000
- ALL92004** .... Gen V and VI 1991-Up BB Chevy Engines Adapter threads into block with 1"-12 threads and has 13/16"-16 threads to accept oil filter.
- ALL92005** .... 2006-2019 LS Series Engines Hex body adapter threads into oil pan with 20mm x 1.50 thread and has 22mm x 1.50 thread to accept oil filter (PH10575).
- ALL92006** .... 1998-2009 LS Series Engines Round body with internal hex adapter threads into oil pan with 20mm x 1.50 thread and has 13/16"-16 thread to accept oil filter (PH3506).
- ALL92003** .... Most SB Ford 302-351W Engines. Adapter threads into block with 1-1/16"-12 threads and has 3/4"-16 threads to accept oil filter.

## Chevy Billet Oil Filter Adapter ALL92020

Billet aluminum adapter replaces the stock cast aluminum adapter and eliminates the bypass found in OE adapters. Adapter fits most 1968-96 SB Chevy and 1968-90 Gen IV BB Chevy engines, has 13/16"-16 threads for spin-on style oil filters and includes mounting hardware.



## Chevy Oil Filter Sandwich Adapter ALL92022

Aluminum adapter installs in place of the OE style oil filter adapter, eliminating the bypass found in OE adapter and providing 1/2" NPT inlet and outlet ports for connecting an external oil cooler. Adapter lowers the oil filter 1-1/2" and directs oil first to the oil cooler and then through the filter before entering the engine. Adapter fits most 1968-96 SB Chevy and 1968-90 Gen IV BB Chevy engines, has 13/16"-16 threads for spin-on style oil filters and includes mounting hardware and O-rings.



## Chevy Remote Oil Filter Adapter ALL92025

Aluminum adapter installs in place of the OE style oil filter adapter, providing 1/2" NPT inlet and outlet ports for connecting to an external oil filter mount. Adapter is commonly used when header clearance does not allow easy access to block mounted oil filter. Adapter fits most 1968-96 SB Chevy and 1968-90 Gen IV BB Chevy engines and includes mounting hardware and O-rings.



## Remote Oil Filter Mount Kit ALL92027

Kit includes a machined billet aluminum mount for relocating an oil filter to a location that is easier to access and protected from possible damage. Mount features top mounted -12 ORB ports for easy connection and hose routing, a 1/8" NPT pressure port, and multiple oil filter fittings. Fittings included are 3/4"-16, 13/16"-16, and 1-1/8"-16 for most popular 3-5/8" O.D. oil filters.



## Aluminum Oil Inlet Fittings

Aluminum fittings adapt NPT to the AN threads commonly used when connecting oil lines and for other applications. Length stated is overall length. ALL90045 features two additional 1/8" NPT ports commonly used when plumbing valve spring oilers.



- ALL90048** .... 3/8" NPT to -10AN, 3" Long
- ALL90043** .... 1/2" NPT to -10AN, 3" Long
- ALL90044** .... 1/2" NPT to -12AN, 3" Long
- ALL90045** .... 1/2" NPT to -12AN, 3-1/2" Long (With 1/8" NPT Ports)

## Inline Oil Temperature Tees

Install in the oil return line (pump-to-tank) to adapt a probe for an oil temperature gauge. All inline tees have 1/2" NPT threads for probe fittings and 1/4" holes for mounting.



- ALL90039** .... -8AN
- ALL90040** .... -10AN
- ALL90041** .... -12AN
- ALL90042** .... -16AN

## Reducer Fittings

Reducer fittings are an economical way to reduce the male AN thread size on items such as oil coolers and inline temperature fittings.



- ALL90075** .... -10AN to -8AN
- ALL90076** .... -12AN to -10AN

## 1/8" NPT to -4AN Tall Fittings

Steel fittings allow easier access when plumbing oil pressure lines on many engine blocks.



- ALL50004** .... Straight
- ALL50021** .... 90°

## Engine Oil Pressure Primer Tank **ALL10535**

Primer tank supplies initial oil to the oil pump in engines equipped with a crank-driven oil pump. Fill primer tank with engine oil then apply compressed air to force the fluid throughout the engine via the oil pressure sender/switch port to pre-lube the entire engine, including the oil pump. Tank features a cap with safety pressure release slot (sealed by O-ring), an easy to read pressure gauge and a quarter turn on/off supply valve. The oil supply line is a durable 90" long steel braided hose with -4AN ends and includes a fitting with male 1/8"-27NPT threads. Adapter fittings sold separately.



## Chevy Oil Restrictors

Oil restrictors reduce the amount of oil flow to the top of the engine, reducing the risk of evacuating the oil pan in continuous high rpm engines while allowing more oil to be directed to the main and rod bearings. Restrictors have a .055" I.D. hole and include two extra O-ring seals. Package of 2.



- ALL90070** .... SB/BB Chevy, Aluminum with Hex Head
- ALL90071** .... SB/BB Chevy and Bowtie Block, Steel with Allen Head

Note: Not recommended for hydraulic lifter engines.

## Dart/Chevy SHP Oil Restrictors

Oil restrictors for use in Dart SB Chevy SHP blocks are specifically designed for the priority main oil system to reduce the amount of oil flow to the top of the engine, reducing the risk of evacuating the oil pan in continuous high rpm engines. Kit includes two restrictors, an extra O-ring, and detailed installation instructions.



- ALL90072** .... Restrictor Kit With .090" I.D. Hole
- ALL90073**† ... Restrictor Kit With .030" I.D. Hole

†Smaller port size may be modified as needed for preferred amount of oiling.

## GM LS Oil Galley Plug

Galley plugs, commonly referred to as "Barbells", are used by the factory to divert oil to the factory oil filter and prevent unfiltered oil from circulating through the engine. The original GM barbells are a nylon material that may become brittle over time and should be replaced when performing a rebuild or upgrades.



- ALL90067** .... OE Style Nylon
- ALL90068** .... Billet Aluminum

## Immersion Heaters

Immersion style heater preheats oil in wet sump oil pan or dry sump tanks to reduce overall warm up time and improve lubrication during initial start up. 5/8" diameter stainless steel sleeve inserts into pan or tank and secures with a welded on 1/2"NPT brass screw-in fitting. 120-volt operation. These are not thermostatically controlled, units will continue to heat as long as they are plugged in.



- ALL76415** ..... 4-3/4" Long Heater Element w/ 3' Long Cord, 400W
- ALL76416** ..... 7-1/2" Long Heater Element w/ 12" Long Cord, 250W

## Heating Pads

High-temperature silicone heating pads externally preheat oil in wet sump oil pans, dry sump tanks and automatic transmission pans, reducing overall warm up time and improving lubrication during initial start up. 3" cord, 120-volt operation. These are not thermostatically controlled, units will continue to heat as long as they are plugged in.



- ALL76420** ..... 2"x15", Self-Adhesive Pad, 200W
- ALL76422** ..... 5"x7", Self-Adhesive Pad, 375W
- ALL76424** ..... 6"x12", Velcro-Strapped Pad for 6" O.D. Tanks, 435W

**WARNING!** Do not plug heater in without being installed on tank or metallic surface to absorb heat. Element heats up quickly and damage will result.

## Flange Mount Oil Coolers

Adding an oil cooler to a vehicle increases engine life and reduces engine operating temperature. Engine oil not only lubricates but also removes a large amount of heat from the engine. Top engine builders recommend and often require use of an oil cooler. Coolers have a 1/2"NPT female bung commonly used for connecting a temperature sending unit or similar accessories and have built in angles for mounting to the deck underside of most Dirt Late Models, Modifieds, or other vehicles that would benefit from use of an oil cooler.



- ALL30146** ..... Cooler with -10AN Fittings, 4" x 15" x 3-1/2" Tall for Most Wet Sump Systems
- ALL30145** ..... Cooler with -12AN Fittings, 8-3/4" x 15" x 3-1/2" Tall for Most Dry Sump Systems

## Oil Cooler Scoops

Scoop mounts to the deck of most race cars above the oil cooler forcing air through the oil cooler to aid cooling. Black plastic scoop has a carbon fiber look and measures 11" x 7" with a 3" tall opening and approximately a 1" mounting lip.



- ALL23228** .... Scoop with 7" Wide Opening
- ALL23229** .... Scoop with 11" Wide Opening



## Linear Oil Coolers

Finned aluminum coolers have 3/4"NPT ends and T-slots for easy mounting.

- ALL30142**..... 3'
- ALL30143**..... 4'
- ALL30144**..... 5'



## Sprint Car Dry Sump Tank Mounting Brackets

Mounting brackets are designed to mount 6" diameter tanks to the left front corner of standard small block Chevy engines. Commonly mounted with ALL38145 sprint engine plate, the upper bracket utilizes the water pump mounting holes and the lower bracket fastens to the early front engine mount mounting hole.

- ALL36092** .... Upper Tank Mount
- ALL36093** .... Lower Tank Mount



## LS Lifter Valley Covers

Billet aluminum covers come complete with stainless hardware and O-ring. Black anodized.

- ALL90106**..... Gen III
- ALL90107**..... Gen IV/LSX



## SB Chevy Lifter Valley Vents

### ALL90065

Lifter valley vents positively vent the crankcase and eliminate oil drain-through and windage losses. When used with valley screens, vents prevent damage from broken valvetrain components. Vents have 1/4"NPT threads and a 9/16" hex head to ease installation. Package of 8.



## Mini Breather Tanks

Small capacity, aluminum tank will vent dry sump tank, transmission, or rear end. Tank measures 6-3/4" overall, features a 1/4" NPT bung on bottom for connecting a vent hose and includes a washable breather element. Tanks are offered with a clamp style bracket for mounting to chassis tubing, or a flat mount for mounting to a panel or firewall.

- ALL36140**..... Tank for 1-1/2" Dia. Tubing
- ALL36141**..... Tank for 1-3/4" Dia. Tubing
- ALL36142**..... Tank with Flat Mount
- ALL36103** .... Replacement Filter



ALL36140

## Breather Tanks

Aluminum breather tanks are 11-1/2" x 3", include mounting bracket, clamp on breather element, drain, and one or two 3/8"NPT bung(s). ALL36109 can vent two systems. Ideal for dry sumps and rear ends.

- ALL36108** .... Tank with One RH Bung
- ALL36117** .... Tank with One LH Bung
- ALL36109** .... Tank with Two Bungs



ALL36108



ALL36117



ALL36109

## SB Chevy Fuel Pump Mount Plate ALL40254

O.E. style plate replaces lost or missing mounting plate required to mount mechanical style fuel pump to most small block Chevrolet engines. Clear zinc-plated finish may also be painted to match original appearance. Mounting hardware included.



## SB Chevy Fuel Pump Block-Off Plate ALL40255

Plate covers mechanical fuel pump engine opening on most small block Chevrolets when omitting a mechanical style fuel pump. Plate is often used when converting to electric or belt driven fuel pumps. Clear zinc-plated finish may also be painted.



## Billet Aluminum Fuel Pump Block-Off Plates

CNC-machined billet aluminum plates cover the mechanical pump opening in the engine block and include a gasket and stainless steel fasteners.



ALL40306

ALL40305

Description	Blue	Clear	Red	Black
SB Chevy	<b>ALL40300</b>	<b>ALL40301</b>	<b>ALL40302</b>	<b>ALL40306</b>
BB Chevy, SB/BB Ford*, SB/BB Chrysler	<b>ALL40303</b>	<b>ALL40304</b>	<b>ALL40305</b>	<b>ALL40307</b>

\*Will not fit Ford 351C, 351M-400.





## LS Timing Cover Conversion Kit **ALL90090**

LS timing cover conversion kit adapts a standard small block Ford distributor into CT525 crate and LS series engines, allowing adjustment of timing and the mechanical advance curve and also provides an alternative to installing complete computer and fuel injection systems when placing a late model LS engine into an older street performance vehicle. Enjoy the performance and durability of the GM LS series engine with the simplicity and tune-ability of a distributor and carburetor. Kit includes all internal components and new timing cover for converting LS series engines to utilize a standard distributor ignition system and a carburetor with a belt-driven or electric fuel pump.



## Pontiac Aluminum Timing Cover **ALL90019**

Cast aluminum cover with timing marks includes water pump backing plate and two coolant inserts. Fits most 1969-79 Pontiac V8 engine models including 350, 400, and 455.



## SB Mopar Timing Cover **ALL90028**

Aluminum timing cover fits most SB Mopar "LA" series blocks with driver's side timing marks including 273, 318, 340, and 360 CID engines.



## Stamped Steel Timing Covers

Excellent replacement for distorted or leaking OE style timing covers.

**ALL90010** .... SB Chevy

**ALL90011** ..... BB Chevy (Gen IV) **NEW**



## Aluminum Timing Covers

Polished cast aluminum covers resist warping and leaking that is common with OE style stamped steel covers. Recessed mounting holes are designed for button head fasteners (ALL99390) for proper installation. Covers clear most double roller style timing chains.



ALL90008



ALL90009

**ALL90008** .... SB Chevy

**ALL90009** .... BB Chevy

### Related Component

**ALL99390** .... Timing Cover Fasteners

## Timing Cover Seals

Seal works with stamped steel or aluminum covers.

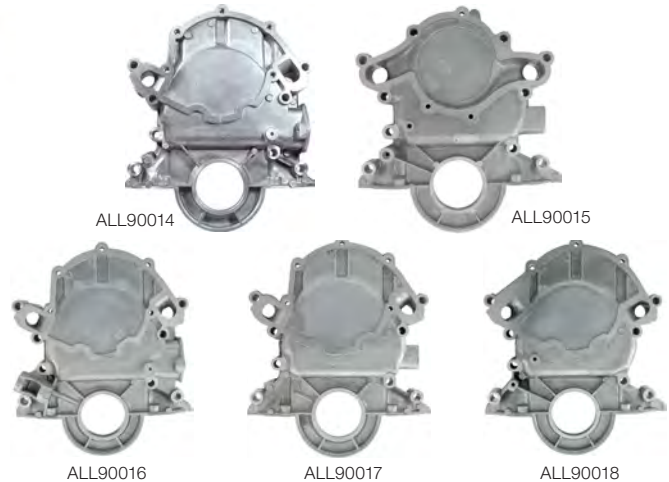
**ALL87280** .... SB Chevy

**ALL87282** .... BB Chevy



ALL87280

## SB Ford 302/351 Timing Covers



ALL90014

ALL90015

ALL90016

ALL90017

ALL90018

New cast aluminum stock replacement timing covers are available in several styles.

**ALL90014**..... Early Style, with Fuel Pump Mounting Boss and Dipstick Tube Opening

**ALL90015** .... 1995 Mustang/1996-01 Explorer/Mountaineer Rev. Rotation with Short Water Pump

**ALL90016** .... 1983-89 Cars/Trucks/SUV's, with ECC Sensor Mount and Fuel Pump Mounting Boss

**ALL90017**..... 1985-94 Mustang with EFI

**ALL90018** .... 1987-96 Trucks with EFI, Reverse Rotation

## BB Ford Timing Cover

### **ALL90029**

Aluminum timing cover fits most 429-460cid engines. Cover has provisions for a dipstick tube and mechanical fuel pump for early applications. A dipstick tube plug and a fuel pump block off plate for use with later model fuel injected engines are included.





## SB Chevy Billet Timing Covers (for Sprint Cars)

Machined billet aluminum timing cover is lightweight, durable and weighs over one lb. less than cast aluminum covers. Fits major brand oil pumps. Mounting hardware included.

**ALL90080** .... Standard Cam

**ALL90081** .... Raised Cam



## SB Chevy Gear Drive Assemblies

Aluminum gear drive provides accurate cam timing and the ability to adjust valve timing without removing the oil pan. Aluminum frame features a built-in front oil pan gasket retainer and an idler gear cradle for accurate cam timing throughout the RPM range. Gear drive are complete with cam, crankshaft and idler gears, needle bearing thrust kits, offset degree bushing kit, extra-long dowel pins and installation instructions. Gear drives are commonly used with ALL90080 and ALL90081 Billet Timing Covers or may be used with most stock-type covers such as the ALL90010 with slight modification.



**ALL90000** ..Standard Cam Gear Drive

**ALL90100** ..Raised Cam Gear Drive (+.391")

## Aluminum Cam Seal Plates

Aluminum cam seal plate provides a reliable seal and tight fit.



Part No.	Size	Color	Application
<b>ALL90085</b>	2.103"	Black	GM Small Block
<b>ALL90086</b>	2.253"	Gold	Rodeck Block w/ 1.875" Roller Cam Bearing
<b>ALL90087</b>	2.310"	Blue	Most Blocks w/ 50mm Roller Cam Bearing
<b>ALL90088</b>	2.382"	Silver	Dart Small Block, Aluminum
<b>ALL90089</b>	-	-	Replacement Cam Plate Seal

## Chevy Cam Lock Plate and Bolts **ALL90060**

Kit includes camshaft retaining plate with locking tabs and three alloy steel, 150,000 PSI bolts. Fits all small and big block Chevs.



## Cam Button Spacers

Buttons limit lateral movement of the camshaft in engines without cam thrust plates and reduce friction for "free" horsepower. Machining of the cam sprocket may be required.



**ALL90050** ..... SB Chevy Aluminum, Early with Flat Cover

**ALL90052** .... SB Chevy Aluminum, Late with Reinforced Cover

**ALL90054** .... SB Chevy Steel, Roller Bearing

**ALL90053** .... BB Chevy Aluminum

**ALL90055** .... BB Chevy Steel, Roller Bearing

## SB Chevy Cam Bearing Tool **ALL96470**



For installing cam bearings quickly and easily without damage. Shaft is steel; pilot and driver are aluminum.

## Crankshaft Keys

Replace worn crankshaft keys for proper timing gear and dampener positioning.

**ALL87030** .... Chevy Short, 2-Pack

**ALL87032** .... Chevy Long

**ALL87034** .... Chevy Vortec, LS1/LS2/LS6



## SB Chevy Aluminum Crankshaft Hub **ALL90030**

Designed specifically for circle track racers, this SB Chevy aluminum crank hub is NOT a harmonic damper. Hub is significantly lighter than a harmonic balancer and dramatically reduces rotating weight for quicker acceleration off the turn. Hub has engraved timing marks at 0° and from 30°-42°, is 4-3/8" in diameter, features (3) 3/8"-16 accessory threads and weighs just one pound. Fits all internally balanced small block Chevy engines. Designed for internally balanced engines only and must be balanced with rotating assembly.



### Related Component

**ALL90031** .... Adjustable Aluminum Timing Pointer



## Timing Pointers

Black anodized billet aluminum timing pointers are adjustable to precise timing increments

**ALL90020** ..... SB Chevy 6-3/8" Dia. Balancers

**ALL90021** ..... SB Chevy 7" Dia. Balancers

**ALL90023** ..... SB Chevy 6-1/4" Dia. Balancers

**ALL90024** ..... SB Chevy 7-1/4" Dia. Balancers

**ALL90025** ..... SB Chevy 8" Dia. Balancers

**ALL90022** ..... BB Chevy 7" Dia. Balancers

**ALL90027** ..... BB Chevy 8" Dia. Balancers

**ALL90033** ..... SB Chevy 6-1/8" Dia Balancers

**ALL90036**\* .... SB Ford Stock B, 5/16" Bolt

**ALL90037**† ..... SB Ford Stock C, 5/16" Bolt

\*11-O'Clock Tab Position, Will Not Fit Cleveland Engines

†10-O'Clock Tab Position, Will Not Fit Cleveland Engines

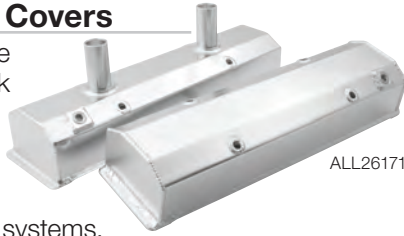


**NEW**

ENGINE

## SB Chevy Fabricated Aluminum Valve Covers

TIG-welded covers are lightweight with a thick rail for gasket support. Covers without tubes are perfect for custom modification and use on dry sump systems. 1-3/8" breathers sold separately.



ALL26171

- ALL26170**..... Standard Covers without Tubes
  - ALL26171**..... Standard Covers with Tubes
  - ALL26172**..... Centerbolt Covers without Tubes
- Related Components**
- ALL36204** .... Non-Shielded Breather, 1-3/8"
  - ALL36205** .... Shielded Breather, 1-3/8"

## Chevy LS Fabricated Aluminum Valve Covers

Fabricated valve covers for most 1997-2005 LS1/LS6 engines feature a thick billet rail, an O-ring sealed threaded fill cap and include O-ring



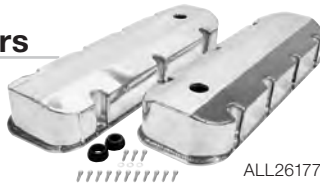
ALL26211

style gaskets and mounting bolts. Valve covers have an inside height of 2-1/4" to clear most aftermarket valvetrain. Coil mounting brackets sold separately.

- ALL26210**..... Valve Covers without Coil Mount
- ALL26211**..... Valve Covers with Coil Mount
- ALL26212**..... Coil Mounting Brackets 1997-2005 LS1/LS6 Coils Steel Stamped Brackets for Use with Delco D580 Coils (ALL 81400)

## BB Chevy Fabricated Aluminum Valve Covers

TIG-welded valve covers with a thick billet rail are available with or without breather holes for custom modification such as vacuum pump fittings. Recessed bolt pockets and tall design to clear most aftermarket valvetrains. Hardware included.



ALL26177

- ALL26176**..... Valve Covers without Holes
- ALL26177**..... Valve Covers with Holes

## SB Chevy Cast Aluminum Valve Covers

Tall polished aluminum valve covers are sold in pairs, with two 1-3/8" baffled breather tubes on one cover. Breathers sold separately.



ALL26137

- ALL26137**..... Centerbolt Covers
  - ALL26139**..... Standard Covers
- Related Components**
- ALL36204** .... Non-Shielded Breather, 1-3/8"
  - ALL36205** .... Shielded Breather, 1-3/8"

## SB Chevy Steel Valve Covers

Steel small block Chevy valve covers are an excellent alternative to more expensive and heavier aluminum valve covers. Sold in pairs, one cover is solid without holes and one cover includes two fully welded, 1-1/2" baffled breather tubes for proper crankcase venting. Breathers sold separately.



ALL26147

- ALL26143**..... Raw Unpainted
- ALL26145**..... Yellow Zinc Plated
- ALL26147**..... Black Painted

## Valve Cover Hold-Down Nuts

Easily remove these hold-down nuts with a 1/4" extension. The spring ball on your extension holds the nut in place, no wrench or socket needed! Package of 4.



- ALL26320** .... 1/4"-20 Coarse Thread Nuts
- ALL26322** .... 1/4"-28 Fine Thread Nuts

## SB Chevy Cork Valve Cover Gaskets

Natural cork material gaskets conform to irregular castings to provide a leak free fit. Coated gaskets feature an additional layer of protection against leaking and are reusable. Gaskets are sold in pairs.

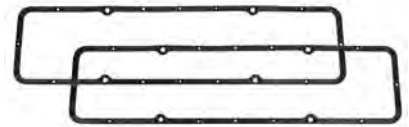


- ALL87210**..... 5/16" Thick
- ALL87212**..... 5/16" Thick with Steel Core
- ALL87214**..... 5/16" Thick with Steel Core (Coated)
- ALL87216**..... 3/16" Thick with Steel Core Centerbolt/Vortec (Coated)

## SB Chevy Rubber Valve Cover Gaskets

### ALL87215

Reusable rubber gaskets are 3/16" thick and feature a molded-in steel reinforcing layer to help gasket keep its shape and provide a leak-free fit. Package of 2.



## Silicone Valve Cover Gaskets

Reusable silicone rubber gaskets are 3/16" thick and feature a molded-in steel reinforcing layer and mounting hole inserts to help gaskets keep their shape and prevent overtightening. Gaskets also feature a multi-ribbed surface for use with composite or aluminum valve covers, not recommended for stamped steel valve covers. Package of 2.



- ALL87217**..... SB Chevy
- ALL87218**..... BB Chevy



## Breathers

Shielded or non-shielded clamp-on breathers will fit valve cover tubes.

### Non-Shielded

**ALL36202** .... 1-1/2"

**ALL36204** .... 1-3/8"

### Shielded

**ALL36203** .... 1-1/2"

**ALL36205** .... 1-3/8"



## Breather Sock **ALL36208**

The breather sock fits over standard 3" diameter, 2-1/2" tall valve cover breathers to help catch residual oil discharged from the engine through valve cover breathers. A practical alternative to wrapping dirty shop rags around valve cover breathers! Socks are easily cleaned with a mild detergent.



## Breather Filters

Mesh filters add another layer of protection against dirt, dust and debris. Fits 3" diameter breathers typically used on valve covers, breather tanks and helmet systems.

**ALL26227** .... Fits Non-Shielded Breathers

**ALL26228** .... Fits Shielded Breathers



## Breather Cover **ALL26232**

Water-repellent cover fits 3" diameter breathers commonly found on valve covers, breather tanks and helmet systems. Cover with drawstring fits both shielded and non-shielded breathers.



## Large Fill Plug Kits

Kits include a weld-in bung and an easy grip O-ring cap with positive seal. Kits are often used as an inspection plug or a filler plug. Large fill plugs have a 3" opening, 3"-12 thread.

### Kit With Aluminum Weld-In Bung

**ALL36170** ..... Silver Kit

**ALL36171** ..... Black Kit

**ALL36172** ..... Red Kit

**ALL36173** ..... Polished Kit



ALL36173

### Kit With Steel Weld-In Bung

**ALL36174** ..... Silver Kit

**ALL36175** ..... Black Kit

**ALL36176** ..... Red Kit

**ALL36177** ..... Polished Kit



ALL36174

## Small Fill Plug Kits

Kits include a weld-in or bolt-in bung and an easy grip O-ring cap with positive seal. Kits are often used as an inspection plug or a filler plug. Small fill plugs have a 1-3/8" opening with 1-1/2"-12 threads.

### Kit with Aluminum Weld-In Bung

**ALL36160** .... Silver Kit

**ALL36164** .... Black Kit

**ALL36165** .... Red Kit

**ALL36166** .... Polished Kit



ALL36160

### Kit with Steel Weld-In Bung

**ALL36161** ..... Silver Kit

**ALL36167** ..... Black Kit

**ALL36168** .... Red Kit

**ALL36169** .... Polished Kit



ALL36167

### Kit with Aluminum Bolt-In Bung

**ALL36180** .... Silver Kit

**ALL36181** ..... Black Kit

**ALL36182** ..... Red Kit

**ALL36183** .... Polished Kit



ALL36182

## Weld Bungs

Weld-on bungs are available in 6061 aluminum or mild steel and allow additional fittings to be added to radiators, or oil pans and building of custom tanks or other components.

### Female NPT

Size	O.D.	Aluminum	Steel
1/8"-27NPT	3/4"	<b>ALL50740</b>	<b>ALL50750</b>
1/4"-18NPT	7/8"	<b>ALL50741</b>	<b>ALL50751</b>
3/8"-18NPT	1"	<b>ALL50742</b>	<b>ALL50752</b>
1/2"-14NPT	1-1/4"	<b>ALL50743</b>	<b>ALL50753</b>
3/4"-14NPT	1-3/8"	<b>ALL50744</b>	<b>ALL50754</b>
1"-11-1/2NPT	1-5/8"	<b>ALL50745</b>	-



### Male AN

Size	Thread	Flange O.D.	Aluminum	Steel
-4AN	7/16"-20	3/4"	<b>ALL50760</b>	<b>ALL50770</b>
-6AN	9/16"-18	7/8"	<b>ALL50761</b>	<b>ALL50771</b>
-8AN	3/4"-16	1"	<b>ALL50762</b>	<b>ALL50772</b>
-10AN	7/8"-14	1-1/8"	<b>ALL50763</b>	<b>ALL50773</b>
-12AN	1-1/16"-12	1-3/8"	<b>ALL50764</b>	<b>ALL50774</b>
-16AN	1-5/16"-12	1-5/8"	<b>ALL50765</b>	<b>ALL50775</b>
-20AN	1-5/8"-12	1-3/4"	<b>ALL50766</b>	<b>ALL50776</b>



### Female AN ORB

Size	Thread	O.D.	Aluminum
-4AN	7/16"-20	3/4"	<b>ALL50780</b>
-6AN	9/16"-18	7/8"	<b>ALL50781</b>
-8AN	3/4"-16	1"	<b>ALL50782</b>
-10AN	7/8"-14	1-1/8"	<b>ALL50783</b>
-12AN	1-1/16"-12	1-3/8"	<b>ALL50784</b>
-16AN	1-5/16"-12	1-5/8"	<b>ALL50785</b>



## LS Cylinder Head Bolt Kits

LS head bolt kits are direct replacement OE style Torque-To-Yield (TTY) head bolts which make them ideal for use on stock and mild performance rebuilds. Follow OEM torque sequence and specifications for proper installation.



ALL87005

**ALL87004** .... 1997-2003 Gen III

**ALL87005** .... 2004-06 Gen III (Fully-threaded)

**ALL87006** .... 2004-2019 Gen III & IV

## Chevy Cylinder Head Bolts

Original equipment Grade 8 cylinder head bolts are ideal for stock or budget performance rebuilds.



ALL87002

**ALL87000** .... SB Chevy, 34-Pack

**ALL87002** .... BB Chevy, 32-Pack

## Head Dowel Pin Kits

Dowel pins are an often overlooked item when performing a rebuild or upgrading cylinder heads. Dowel pins keep gaskets in position and properly align cylinder heads to the engine block. Kits include four pins.



**ALL87020** .... SB Chevy

**ALL87026** .... BB Chevy

**ALL87024** .... LS GM

**ALL87028** .... SB Ford

## Port and Polish Kit **ALL11052**

Kit includes an assortment of 60, 80, and 120 grit cartridge rolls for cleaning and modifying intake and exhaust ports to match gaskets, remove casting marks and for smoothing out runners. Two 1/4" mandrels are included with each kit.



## Dykem Layout Fluid **ALL12070**

Apply layout fluid to the work surface to enhance visibility of scribes during fabrication. Blue fluid dries in minutes to a uniform, thin film without cracking or chipping. 4 oz. container has a built-in brush under cap. Not intended for use in set up of ring and pinion gear sets.



## High-Performance 11/32" Umbrella Valve Seals

**ALL90235**

High quality umbrella style seal moves with valve and deflects oil away from valve guide area. Seals have an O.D. of .750" to fit under most stock or larger diameter valve springs and a .580" I.D. to clear valve guides on most engines. Seals require no machining for installation. Set of 16.



## High-Performance PTFE Valve Seals

Seals have spring loaded wipers for maximum oil control. Machining is required for most installations. Set of 16.



**ALL90240** .... 11/32" Valve Seals, 0.620" Seal O.D., 0.531" Mach. Tool Guide O.D.

**ALL90241** .... 11/32" Valve Seals, 0.600" Seal O.D., 0.500" Mach. Tool Guide O.D.

**ALL90242** .... 3/8" Valve Seals, 0.620" Seal O.D., 0.531" Mach. Tool Guide O.D.

**ALL90244** .... 5/16" Valve Seals, 0.620" Seal O.D., 0.531" Mach. Tool Guide O.D.

## Rocker Arm Nut Kits

Sets include 16 matched rocker arm nuts which are direct replacements for many stud girdles.



**ALL90206** .... SB Chevy 3/8"

**ALL90207** .... SB Chevy 7/16"

**ALL90208** .... BB Chevy 7/16"

## SB Chevy Rocker Arm Stud Kit

**ALL90230**

Grade 8, 3/8"-24 original equipment style studs require a 7/16"-14 tapped hole in the head. Studs have a 2.375" overall length. Package of 8.



## SB Chevy Flat Pushrod Guide Plate **ALL90250**

Guide plates are designed for 5/16" hardened pushrods and stabilize valvetrains using high-lift camshafts and high-pressure valve springs. Package of 8.



## Valve Lash Wrenches

Allstar valve lash wrenches save precious time and make valve adjustment easy. No more fumbling with two separate wrenches. Available for Jesel, T&D, and other poly-lock style rocker assemblies.



**ALL96400** .... 7/16" Adjuster Wrench, 1/8" Allen Wrench, Jesel Assemblies

**ALL96401** .... 1/2" Adjuster Wrench, 3/16" Allen Wrench, T&D Assemblies

**ALL96402** .... 9/16" Adjuster Wrench, 3/16" and 7/32" Allen Wrenches, for Stud Girdle Assemblies

**ALL96403** .... 5/8" Adjuster Wrench, 3/16" and 7/32" Allen Wrenches, Poly Lock

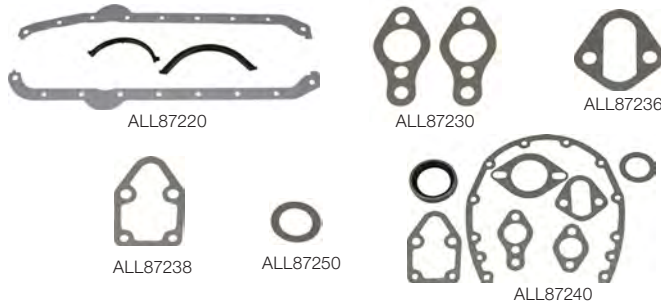
## Intake Manifold Bolt Kit **ALL87010**

Grade 8, 12-point angle clear zinc bolts are 3/8" x 1-1/8" long to fit small block Chevys and Chrysler "A" and "B" engines where clearance is insufficient for standard hex-head bolts. Sets of 12 include stainless washers.



## SB Chevy Gaskets

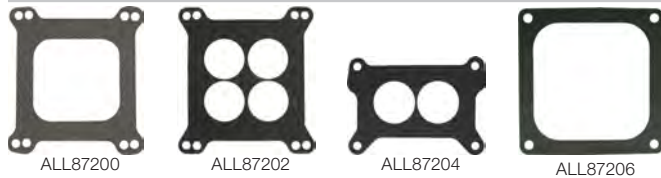
Popular gaskets and gasket sets for most 1955 to 1985 SB Chevy engines.



- ALL87220** ..... Oil Pan Set, 1975 and later\*
- ALL87240** ..... Front Of Engine Set
- ALL87230** ..... Water Pump To Block
- ALL87230-10** ..... Water Pump To Block 10-Pack
- ALL87231** ..... Thermostat Housing
- ALL87231-10** ..... Thermostat Housing 10-Pack
- ALL87236** ..... Fuel Pump
- ALL87236-10** ..... Fuel Pump 10-Pack
- ALL87238** ..... Fuel Pump Plate
- ALL87238-10** ..... Fuel Pump Plate 10-Pack
- ALL87250** ..... Distributor Gasket
- ALL87250-10** ..... Distributor Gasket 10-Pack

\*This set only includes the thick front oil pan seal which is designed for 1975 and later engines and most aftermarket pans.

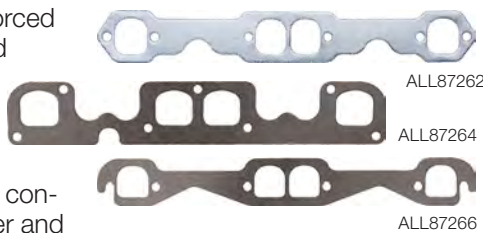
## Carburetor Gaskets



- ALL87200** .... 4150 Open
- ALL87202** .... 4150 4-Hole
- ALL87204** .... 4412 2-Hole, 2bbl.
- ALL87206** .... 4500 Open, Dominator

## SB Chevy Header Gaskets

Durable reinforced steel core and graphite composite gaskets remain soft and pliable to conform to header and head surfaces, providing an excellent, long lasting seal. Sold each.



- ALL87260** .... 1-5/8" Square Port (Stock)
- ALL87262** .... 1-3/4" D-Port (Standard)
- ALL87264** .... Spread Port (Staggered Bolt Pattern)
- ALL87266** .... Crate Engines (Non LS/Fast Burn)
- ALL87268** .... LS Series Engines (Excluding LS7)

## Chevy Aluminum Exhaust Block-Off Plates



Aluminum block-off plates seal exhaust ports during engine storage or repairs. Plates help protect against moisture, dust, and dirt. Sold in pairs.

- ALL34212** ..... SB Chevy
- ALL34214** ..... SB Chevy Spread Port
- ALL34218** ..... LS
- ALL34219** ..... BB Chevy

## SB Chevy Plastic Exhaust Block-Off Plates

One-piece design 1/4" thick block-off plates seal exhaust ports during engine storage or repairs. Plates protect against moisture, dust and dirt. Sold in pairs.



- ALL34213** ..... Standard 23°
- ALL34215** ..... Spread Port and Dart (Excluding 23°)
- ALL34217** ..... SB2

## Fogging Oil ALL78220

Ground Shipment Only

Spray aerosol lubricant (with special additives) into the intake and spark plug holes to coat and lubricate the cylinders, valves, and valve seats. Prevents horsepower-robbing corrosion and eliminates scuffin at start-up after periods of storage. May be used in all 2- or 4-cycle, carbureted or fuel-injected gasoline engines in cars, trucks, motorhomes, ATV's, etc. Sold in a 12-oz. can.



## Engine Cover

**ALL26234**  
Water-repellent cover with bottom draw string is perfect for storage or transportation. 32" long x 23" wide x 28" tall.





## Header Wrap

Reduce under hood temperature while containing header tube heat for increased power. Fiberglass woven wrap is available in natural or black rolls.



### 1" Wide Rolls

- ALL34240** .... Natural 15'
- ALL34241** .... Natural 25'
- ALL34242** .... Natural 50'
- ALL34243** .... Natural 100'
- ALL34250** .... Black 15'
- ALL34251** .... Black 25'
- ALL34252** .... Black 50'
- ALL34253** .... Black 100'

### 2" Wide Rolls

- ALL34244** .... Natural 15'
- ALL34245** .... Natural 25'
- ALL34246** .... Natural 50'
- ALL34247** .... Natural 100'
- ALL34254** .... Black 15'
- ALL34255** .... Black 25'
- ALL34256** .... Black 50'
- ALL34257** .... Black 100'

## Stainless Steel Cable Ties

- ALL34262** .... 7-1/2" Long, Package of 8
- ALL34264** .... 14-1/2" Long, Package of 4



## Universal Heat Wrap

### ALL34238

Heat-resistant material measures 7" x 22", making it ideal for wrapping starter motor or other components that are close to high-heat areas. Wrap features a reflective material on one side to protect against radiant heat and includes two 24" long stainless steel tie wraps for securing material.



### Replacement Component

- ALL34266** .... 24" Stainless Steel Ladder Ties, 2-Pack

## Exhaust Shields

Aluminum shields protect body panels from exhaust exiting through the passenger door and provide a clean, finished look from the outside, simplifying exhaust routing. Round shield I.D. is 6", commonly used for exiting one 5" diameter exhaust pipe. Oval shield I.D. is 5" x 9", commonly used for exiting two 3-1/2" diameter exhaust pipes.

- ALL34180** .... Round Flange, 55° to Door
- ALL34181** .... Round Flange, 90° to Door
- ALL34182** .... Oval Flange, 55° to Door
- ALL34183** .... Oval Flange, 90° to Door



## Header Tab Kits

ALL60040

Weld to headers to hold slip-on collectors in place or use to retain primary tubes on adjustable headers. Kit includes two pairs of tabs, two bolts, and two hex nuts. Two tabs are recommended to secure each collector. Tabs are .085" thick.

- ALL60039** .... 3/4" Tall Tabs x 1-1/2" Long (When Combined 2-1/2" Long), 2-Pack
- ALL60040** .... 1" Tall Tabs x 2-1/2" Long (When Combined 4" Long), 2-Pack



## Crankcase Evacuation System **ALL34145**

Reduce crankcase pressure for optimum piston ring seal, fewer oil leaks and better engine performance. System includes two of each: chrome plated push-in breathers, check valves, weld-in 3-1/2" long threaded pipe adapters, rubber breather grommets and four hose clamps. Evacuation hoses not included. Use with 5/8" diameter hose.



### Replacement Component

- ALL34146** ..... Check Valve

## Electric Exhaust Cutouts

Eliminate the need to manually uncap the exhaust. 12V electric cutout bolts to a standard 3-bolt collector flange and uses a powerful geared motor to open and close a butterfly valve to direct exhaust. Sold each.



- ALL34230** .... 3" Collector Pattern (3-7/8" B.C.)
- ALL34231** .... 2-1/2" Collector Pattern (3-1/2" B.C.)

**IMPORTANT!** ALL34232 or ALL34233 harness (sold separately) is required for proper operation.

### Related Components

- ALL34232** .... Single System Harness
- ALL34233** .... Dual System Harness



ALL34233

## O<sub>2</sub> Sensor Plug And Bung

Hard-to-find O<sub>2</sub> sensor fittings work in a variety of uses.



- ALL34150** .... 18mm Sensor Plug
- ALL34152** .... 18mm Sensor Bung, Angled
- ALL34153** .... 18mm Sensor Bung, Straight

## Swivel Exhaust Hanger **ALL34220**

Hanger swivels horizontally and vertically to simplify mounting in any position. Bolt or weld to chassis to support additional weight of mufflers, turndowns, etc. Steel strapping is 1/8" thick.



## Universal Front Engine Plates



Engine plates are used to replace the front engine mounts allowing relocation of the engine in the chassis, including lowering or when moving the engine back in the chassis. Plates prevent engine movement and reinforce the front suspension for better handling and increased reaction times. Fabricated from 1/4" thick 6061-T6 aluminum, plates are often trimmed to fit the chassis or frame mounts. Plates are machined for a perfect fit to mount between the water pump and engine block.

**ALL38120**..... SB Chevy 10" x 36"

**ALL38124**..... BB Chevy 12" x 36"

## Universal Dragster Front Engine Plates

Universal width engine plate includes separate frame saddles for the engine plate to rest on allowing installation of



engine into any width dragster style chassis. Saddles feature machined flats which allow the engine plate to rest directly on the saddle securing the engine plate between the saddle and the existing frame mounting tab. Plate is 1/4" thick and includes saddles for chassis up to 1-3/8" in diameter. Note: Drilling will be required to fasten saddles and engine plate to existing frame mounts once plate is positioned on frame.

**ALL38142**..... SB Chevy

**ALL38143**..... BB Chevy

## Engine Lift Plate

**ALL10123**

Ease engine swaps with the Allstar engine lift plate. Bolts to manifold in place of carburetor. Yellow zinc-coated plate fits standard Holley 4150/4160 and 4500 Dominator, Rochester Quadrajet, Carter, Motorcraft, Edelbrock, Edelbrock Q-Jet, and Carter AFB carburetors.



## Bellhousing Dowel Pins

Steel dowel pins are approximately 1/2" longer than stock pins and are required when running an engine mid-plate, rear engine mounts or an aftermarket bellhousing. Pins fit most GM blocks and are sold in pairs.



**ALL38150**..... Solid Pins

**ALL38152**..... Hollow Pins

## Universal Engine Mid-Plates

Universal plates are positioned between the engine and transmission to provide a mid-engine mounting location and help stiffen the chassis. These mid plates are great for drag racing and street cars, allowing easier engine or transmission removal, and installation of engine/transmission into almost any chassis. Plates fit most GM V8 applications and measure 15"H x 29"W.



**ALL38121**..... Steel (0.090")

**ALL38122**..... Aluminum (0.250")

## Engine Mid-Plate

**ALL38132**

An engine mid-plate locates between the engine block and transmission to provide a center mounting point in a fabricated chassis. Plate is 1/4" thick 6061 aluminum, black powder coated and profiled to keep weight at a minimum without compromising strength or durability. Mid-plate features multiple mounting holes spaced 1/2" apart and a 5/8" offset to work with many different chassis.



## Engine Cradles

Engine cradles are available in standard duty or heavy-duty, both with provisions for mounting wheels and are made of 1" square tubing with black powder coating. All cradles are for V8 engines, include Grade 5 fasteners and may be easily disassembled for storage. Standard-duty cradles accept wheel kits with 3/8" studs. Heavy-duty cradles accept wheel kits with 1/2" studs. Wheel kits sold separately.



Accepts Bolt-On Wheel Kits

### Standard Duty

**ALL10130** ..... SB and BB Chevy

**ALL10138** ..... GM LS Series

**ALL10145** ..... SB Ford\*\*

**ALL10147** ..... SB Ford Modular/Coyote

**ALL10150** ..... SB Mopar

**ALL10151** ..... Hemi (5.7 And 6.1)

### Heavy Duty

**ALL10132** ..... SB and BB Chevy

**ALL10139** ..... GM LS Series

**ALL10142** ..... Oldsmobile

**ALL10144** ..... Pontiac

**ALL10148** ..... SB Ford\*\*

**ALL10149** ..... SB Ford Modular/Coyote

**ALL10152** ..... SB Mopar

**ALL10154** ..... BB Ford

**ALL10156** ..... BB Mopar



Standard Duty Wheel Mount



Heavy Duty Wheel Mount

\*\*Designed to work with stock and most aftermarket blocks including Dart, World, and Ford Boss with ribbed engine mount bosses and bulged water jackets.



### Standard Chevy Front Engine Mounts

Mounts are designed for fabricated chassis or stock chassis that have fabricated engine mounts attached to the frame. Solid style mounts bolt in place of stock engine mounts on standard Chevy engines and features a frame mounting hole that is centered on the original mounting location. Frame mounting holes are designed for 1/2" fasteners and slotted for universal fit in many applications. Sold each.



ALL38100

- ALL38100 .... Steel
- ALL38098 .... Aluminum

### Offset Chevy Front Engine Mounts

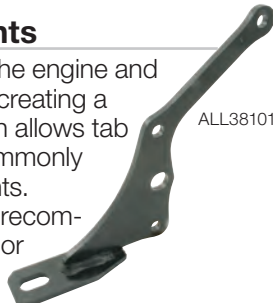
Mounts are designed for fabricated chassis or stock chassis that have fabricated engine mounts attached to the frame. Solid style mounts bolt in place of stock engine mounts on standard Chevy engines and features a frame mounting hole that is offset to the original mounting location. Frame mounting holes are designed for 1/2" fasteners and slotted for a universal fit in many applications. Sold in pairs.



- ALL38108 .... 1" Offset
- ALL38109 .... 2" Offset
- ALL38110 ..... 3-3/8" Offset

### Chevy Rear Engine Mounts

Solid style mounts bolt between the engine and transmission of most Chevy V8's creating a middle support. Unwelded version allows tab to be installed in any location. Commonly used with solid front engine mounts. Extended bellhousing dowel pins recommended, extended pilot bearings or other spacers may be required.



ALL38101

- ALL38101 ..... Welded
- ALL38102 ..... Unwelded Universal Kit

### Chevy Raised Engine Mounts

Use these mounts to raise the engine in the chassis instead of spacers and longer bolts. Use when changing from a dry sump to a wet sump engine or when extra clearance is required. 1" or 1-1/2" raised steel mounts are 1/4" thick and slotted for easy installation. Mounts are sold each.



ALL38065

- ALL38060 .... Front, Raised 1"
- ALL38061 .... Front, Raised 1-1/2"
- ALL38064 .... Rear, Raised 1"
- ALL38065 .... Rear, Raised 1-1/2"

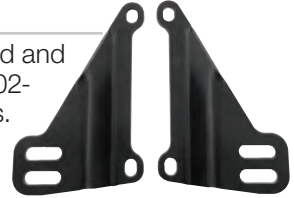


ALL38061

### Ford Engine Mounts

Steel mounts have been updated and now fit the newer and original 302-351W small blocks. Sold in pairs.

- ALL38112 ..... Rear
- ALL38113 ..... Front



ALL38113

### CT525 Engine Mounts

Steel mounts allow a CT525 crate or other LS series engine to fit in most circle track cars. Slots are 1" wide and can be used in standard or 1" setback locations. Sold as a pair.

- ALL38085



### GM Engine Mount Kit

Bolt-in steel mounts for GM metric chassis bolt to crossmember and accept Allstar steel engine mounts (ALL38100). A "captured" 1/2"-13 nut eases engine installation. Sold in pairs.

- ALL38082



### LS Engine Adapters

Adapters allow bolting an early GM 3-bolt engine mount to the late model LS style block with a 4-bolt pattern. Adapters place the early mount in approximately the same location as found on the original SB/BB Chevy engines and also features optional holes for moving the engine forward up to 2-1/4" for additional firewall clearance. Sold in pairs and includes mounting hardware.

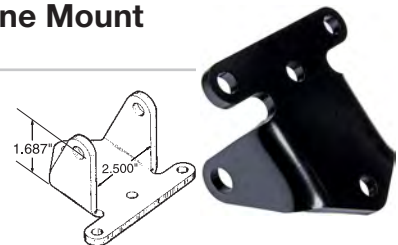
- ALL38084



### Chevy Solid Engine Mount

Solid engine mount is 1/4" thick steel and replaces stock Chevy rubber mount to eliminate torque loss and prevent engine movement. Sold each.

- ALL38080





## Engine Mount Spacers

Aluminum spacers are pro led for weight reduction and are 1-1/2" O.D. x 1/2" I.D. Use with pedestal style engine mounts. Sold each.

**ALL18620**..... 1/4"

**ALL18621**..... 1/2"

**ALL18622**..... 1"

**ALL18623**..... 1-1/2"

**ALL18624**..... 2"



## High-Vibration Engine Mount Spacer Kit (Big Bar Soft Spring Cars)

**ALL18626**

Ever wonder what happens to many race car components when you continually bottom out your chassis? Spacers are made from a unique material that won't let your engine vibrate around under normal conditions yet will give some when you bottom out, making life a little easier on your engine and driveline components. Spacers are 1/4" thick, 1-1/2" O.D. with a 1/2" hole. Set of two.



## Chevy Engine Mount Pads **ALL38090**

Steel pads are 3/16" thick and traditionally used as shims to gain extra oil pan or header clearance. May also be used for building custom engine mounts or engine stands. Sold in pairs.



## GM Engine Mount **ALL38114**

Replacement stock mount for most GM engines. Mount bolts to chassis.

### Fits:

1970-88 Monte Carlo

1970-87 El Camino

1971-92 Camaro

1977-87 Regal 1970-85 Impala

1970-73 Chevelle

1973-87 Cutlass

1974-83 Malibu

1970-79 Nova



## GM Engine Mount **ALL38115**

Replacement stock mount for most GM V-6 engines. Mount bolts to chassis. Designed to work with metal shell type mount bolts to engine.



## Ford Engine Mount **ALL38116**

Replacement rubber mount for Allstar Ford Ranger V8 conversion kit. Mount bolts to the engine.



ALL38251

## Chevrolet/GM V8 Engine Conversion Kits

Conversion kits are a good starting point when installing a small block Chevy/TH350 transmission combination into most 1982-up S-10, S-15, Jimmy, or Blazer. Additional components and fabrication will be required depending on engine and application.

### ALL38250 2WD Conversion Kit Includes:

- Engine Mount Set
- Headers
- Engine Mounts

### ALL38251 2WD Conversion Kit Includes:

- Engine Mount Set
- Headers
- Engine Mounts
- Radiator



## Ford V8 Engine Conversion Kit **ALL38200**

Conversion kits are a good starting point when installing a 289/302 with a C-4 transmission combination into a 1982-97 2WD Ranger. Additional components and fabrication will be required, depending on engine and application.

### Kit Includes:

- Engine Mount Adapter Set
- Oil Pump Pick-Up Tube
- Filter Adapter
- Engine Mounts
- Radiator
- Oil Pan
- Headers



### 3/16" Small Head Economy Rivets

Small head rivets have a 3/8" O.D. head and packaged 250 per box.

Color	Steel Mandrel	Aluminum Mandrel	Grip Range
Silver	<b>ALL18000</b>	<b>ALL18040</b>	1/4" to 3/8"
White	<b>ALL18001</b>	—	1/4" to 3/8"
Red	<b>ALL18002</b>	—	1/4" to 3/8"
Black	<b>ALL18003</b>	—	1/4" to 3/8"
Chevron Blue	<b>ALL18004</b>	—	1/4" to 3/8"
Orange	<b>ALL18005</b>	—	1/4" to 3/8"
Yellow	<b>ALL18006</b>	—	1/4" to 3/8"
Silver	<b>ALL18020</b>	—	5/8" to 3/4"
White	<b>ALL18021</b>	—	5/8" to 3/4"
Red	<b>ALL18022</b>	—	5/8" to 3/4"
Black	<b>ALL18023</b>	—	5/8" to 3/4"



### 3/16" Small Head Rivets

Small head rivets have a 3/8" O.D. head and packaged 250 per box.

Color	Steel Mandrel	Aluminum Mandrel	Grip Range
Silver	<b>ALL18101</b>	<b>ALL18107</b>	1/8" to 1/4"
Silver	<b>ALL18103</b>	<b>ALL18109</b>	1/4" to 3/8"
Silver	<b>ALL18105</b>	—	3/8" to 1/2"
White	<b>ALL18114</b>	<b>ALL18116</b>	1/4" to 3/8"
Red	<b>ALL18120</b>	<b>ALL18122</b>	1/4" to 3/8"
Black	<b>ALL18126</b>	<b>ALL18128</b>	1/4" to 3/8"
Pepsi Blue	<b>ALL18132</b>	—	1/4" to 3/8"
Chevron Blue	<b>ALL18134</b>	<b>ALL18135</b>	1/4" to 3/8"
Orange	<b>ALL18136</b>	<b>ALL18137</b>	1/4" to 3/8"
Yellow	<b>ALL18138</b>	<b>ALL18139</b>	1/4" to 3/8"



### 3/16" Large Head Economy Rivets

Large head rivets have a 5/8" O.D. head and packaged 250 per box unless otherwise noted.

Color	Steel Mandrel	Aluminum Mandrel	Grip Range
Silver	<b>ALL18010</b>	<b>ALL18050</b>	1/4" to 3/8"
White	<b>ALL18011</b>	<b>ALL18051</b>	1/4" to 3/8"
Red	<b>ALL18012</b>	<b>ALL18052</b>	1/4" to 3/8"
Black	<b>ALL18013</b>	<b>ALL18053</b>	1/4" to 3/8"
Chevron Blue	<b>ALL18014</b>	<b>ALL18054</b>	1/4" to 3/8"
Orange	<b>ALL18015</b>	—	1/4" to 3/8"
Yellow	<b>ALL18016</b>	<b>ALL18056</b>	1/4" to 3/8"
Silver	<b>ALL18030<sup>†</sup></b>	—	5/8" to 3/4"
White	<b>ALL18031<sup>†</sup></b>	—	5/8" to 3/4"
Red	<b>ALL18032<sup>†</sup></b>	—	5/8" to 3/4"
Black	<b>ALL18033<sup>†</sup></b>	—	5/8" to 3/4"



†Contain 200 pcs.

### 3/16" Large Head Rivets

Large head rivets have a 5/8" O.D. head and packaged 250 per box.

Color	Steel Mandrel	Aluminum Mandrel	Grip Range
Silver	<b>ALL18141</b>	<b>ALL18149</b>	1/8" to 1/4"
Silver	<b>ALL18143</b>	<b>ALL18151</b>	1/4" to 3/8"
Silver	<b>ALL18145<sup>†</sup></b>	—	3/8" to 1/2"
Silver	<b>ALL18147</b>	<b>ALL18153</b>	3/8" to 1/2"
White	<b>ALL18156</b>	<b>ALL18158</b>	1/4" to 3/8"
Red	<b>ALL18162</b>	<b>ALL18164</b>	1/4" to 3/8"
Black	<b>ALL18168</b>	<b>ALL18170</b>	1/4" to 3/8"
Pepsi Blue	<b>ALL18174</b>	<b>ALL18175</b>	1/4" to 3/8"
Chevron Blue	<b>ALL18176</b>	<b>ALL18177</b>	1/4" to 3/8"
Orange	<b>ALL18178</b>	—	1/4" to 3/8"
Yellow	<b>ALL18180</b>	<b>ALL18181</b>	1/4" to 3/8"



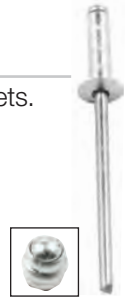
†Box of 3,000 rivets



### 3/16" Multi Grip Rivets

Multi grip style rivets have a ribbed body that draws panels together tighter than standard smooth body rivets. Select proper grip range and use with 13/64" drill bit for best results. Box of 250.

Color	Steel Mandrel	Aluminum Mandrel	Head Size	Grip Range
Silver	<b>ALL18110</b>	—	Sm. (3/8")	3/16" to 3/8"
Silver	<b>ALL18090</b>	<b>ALL18070</b>	Med. (1/2")	1/16" to 3/8"
Silver	<b>ALL18086</b>	<b>ALL18074</b>	Med. (1/2")	1/16" to 5/8"
Silver	<b>ALL18094</b>	—	Lg. (9/16")	1/16" to 3/8"
Silver	<b>ALL18093</b>	—	Lg. (9/16")	1/16" to 3/4"
White	<b>ALL18092</b>	—	Med. (1/2")	1/16" to 3/8"
White	<b>ALL18096</b>	—	Lg. (9/16")	1/16" to 3/8"
Black	<b>ALL18091</b>	<b>ALL18071</b>	Med. (1/2")	1/16" to 3/8"
Black	<b>ALL18087</b>	<b>ALL18075</b>	Med. (1/2")	1/16" to 5/8"
Black	<b>ALL18095</b>	—	Lg. (9/16")	1/16" to 3/8"
Black	<b>ALL18097</b>	—	Lg. (9/16")	1/16" to 3/4"



### 3/16" Tri-Fold Rivets

Tri-fold rivets have a perforated body that opens and expands to create a large backside surface area, eliminating the need for backer washers. Use a 13/64" drill bit for best results. Box of 250.

Color	Steel Mandrel	Aluminum Mandrel	Head Size	Grip Range
Silver	—	<b>ALL18184</b>	Sm. (3/8")	1/8" to 3/8"
Silver	—	<b>ALL18183</b>	Med. (1/2")	1/8" to 3/8"
Silver	<b>ALL18185</b>	—	Med. (1/2")	1/8" to 1/2"
Silver	—	<b>ALL18060</b>	Lg. (5/8")	1/8" to 3/8"
White	—	<b>ALL18080</b>	Sm. (3/8")	1/8" to 3/8"
White	—	<b>ALL18188</b>	Med. (1/2")	1/8" to 3/8"
White	—	<b>ALL18061</b>	Lg. (5/8")	1/8" to 3/8"
Red	—	<b>ALL18081</b>	Sm. (3/8")	1/8" to 3/8"
Red	—	<b>ALL18189</b>	Med. (1/2")	1/8" to 3/8"
Red	—	<b>ALL18062</b>	Lg. (5/8")	1/8" to 3/8"
Black	—	<b>ALL18082</b>	Sm. (3/8")	1/8" to 3/8"
Black	—	<b>ALL18187</b>	Med. (1/2")	1/8" to 3/8"
Black	—	<b>ALL18063</b>	Lg. (5/8")	1/8" to 3/8"
Chevron Blue	—	<b>ALL18083</b>	Sm. (3/8")	1/8" to 3/8"
Orange	—	<b>ALL18084</b>	Sm. (3/8")	1/8" to 3/8"
Yellow	—	<b>ALL18085</b>	Sm. (3/8")	1/8" to 3/8"



### Cleco Pin Fastener Kits

Cleco pins are reusable and easily make a temporary connection between pieces of sheet metal during fitting. Pins will work with thicknesses up to 1/4". Kits include pliers and 10 pins.



**ALL18221**..... Kit with 1/8" Pins  
**ALL18225**..... Kit with 3/16" Pins

### Cleco Pliers **ALL18220**

Unique tool readily installs and removes Cleco fasteners.

### Clamp Type Cleco Fastener **ALL18230**

A very strong spring clamp to hold pieces together when drilling is not an option. The smooth throat prevents paint damage and is 1" deep, with a maximum clamping range of 1/2".



### Pin Type Cleco Fasteners

Cleco pins permit quick, easy installation and removal of sheet metal during fitting. Pins work with thicknesses up to 1/4".



**1/8" Dia. Pins**  
**ALL18222**..... 10-Pack  
**ALL18223**..... 25-Pack  
**ALL18224**..... 100-Pack

**3/16" Dia. Pins**  
**ALL18226**..... 10-Pack  
**ALL18227**..... 25-Pack  
**ALL18228**..... 100-Pack

### TECH TIP

Drill holes one drill size smaller than the Cleco pin size to assure a tight fit.

### 1/4" Pin Type Cleco Fastener **ALL18234**

Cleco Pins are temporary fasteners that can easily be installed or removed in 1/4" holes when fitting sheet metal or chassis tabs using the ALL18220 Cleco Pliers. 1/4" size pin is ideal to use in place of body bolts or other 1/4" fasteners. Package of 10.





## 1/8" Rivets

Color	Stainless Steel Mandrel	Aluminum Mandrel	Qty	Grip Range
Silver	-	<b>ALL18190</b>	500	1/8" to 1/4"
Silver	-	<b>ALL18191</b>	25	1/8" to 1/4"
Silver	-	<b>ALL18192</b>	500	1/4" to 3/8"
Silver	-	<b>ALL18194</b>	25	1/4" to 3/8"
Black	-	<b>ALL18193</b>	500	1/8" to 1/4"
Black	-	<b>ALL18195</b>	500	1/4" to 3/8"
Stainless Steel*	<b>ALL18196</b>	-	500	1/8" to 1/4"
Stainless Steel*	<b>ALL18197</b>	-	25	1/8" to 1/4"

\*Stainless steel body and mandrel.



## Racer's Tape

A hundred uses in the shop or at the track, this is true "Racer's Tape".



### 1" Wide x 90'

**ALL14141** ..... Black

### 2" Wide x 180'

**ALL14150** ..... Silver

**ALL14151** ..... White

**ALL14152** ..... Red

**ALL14153** ..... Black

**ALL14154** ..... Yellow

**ALL14155** ..... Blue

### 2" Wide x 180'

**ALL14156** ..... Orange

**ALL14157** ..... Green

**ALL14158** ..... Burgundy

**ALL14159** ..... Purple

**ALL14162** ..... Teal

### 3" Wide x 180'

**ALL14142** ..... White

**ALL14143** ..... Black

## 1/8" Multi-Grip Rivets

Multi-grip style rivets have a ribbed body that draws panels together tighter than standard smooth body rivets. Rivets feature steel mandrels, a 1/8" to 3/8" grip range and are sold in 250-piece boxes.

**ALL18198** ..... Silver

**ALL18098** ..... Black



## 1/8" Flange Tri-Fold Rivets

Tri-fold rivets have a perforated body that opens and expands to create a large backside surface area, eliminating the need for backer washers. Rivets feature aluminum mandrels, a 1/8" to 3/8" grip range and are sold in 100-piece boxes.

**ALL18199** ..... Silver

**ALL18099** ..... Black



## Back-Up Washers

Back-up washers provide added strength when fastening panels together or when resealing damaged panels.

ALL18200

ALL18215

Part No.	I.D.	O.D.	Pkg. Qty.
<b>Aluminum</b>			
<b>ALL18200</b>	1/8"	3/8"	500
<b>ALL18202</b>	3/16"	1/2"	500
<b>Steel</b>			
<b>ALL18215</b>	3/16"	1"	100



## Double-Ended Drill Bits

Double-ended bits are basically two bits in one. Convenient bit can be flipped around for a fresh sharp bit when drilling panels for Cleco fasteners or rivets. Package of 6.

**ALL18201** ..... 1/8"

**ALL18204** ..... 3/16"



## 13/64" Drill Bits **ALL18203**

Drill bit is for flange rivets. High-speed steel bits have a black oxide finish and self-centering tips. Flute length: 1-3/16", overall length: 2-1/4". Package of 2.



## Gaffer's Tape

Vinyl-coated gaffer's tape has a dull appearance and is much stronger than standard racer tape.

### 2" Wide x 165'

**ALL14251** .... White

**ALL14252** .... Red

**ALL14253** .... Black

**ALL14254** .... Yellow

**ALL14255** .... Navy Blue

### 4" Wide x 165'

**ALL14261** .... White

**ALL14263** .... Black

### 1" Wide x 150'

**ALL14245** ..... Fluorescent Green

**ALL14246** ..... Fluorescent Pink

**ALL14247** ..... Fluorescent Orange

**ALL14248** ..... Fluorescent Yellow

### 2" Wide x 45'

**ALL14145** ..... Fluorescent Green

**ALL14146** ..... Fluorescent Pink

**ALL14147** ..... Fluorescent Orange

**ALL14148** ..... Fluorescent Yellow

### 2" Wide x 150'

**ALL14265** .... Fluorescent Green

**ALL14266** .... Fluorescent Pink

**ALL14267** .... Fluorescent Orange

**ALL14268** .... Fluorescent Yellow

**NEW**  
**NEW**  
**NEW**  
**NEW**



Mike Spatola

## Nylon Tie Wraps

Secure electrical wiring, gauge lines, and roll bar padding.



### Black

- ALL14120** ..... 3-1/2"
- ALL14122** ..... 5"
- ALL14123** ..... 7"
- ALL14124** ..... 11"
- ALL14125** ..... 14"

### Natural

- ALL14130** ..... 3-1/2"
- ALL14132** ..... 5"
- ALL14133** ..... 7"
- ALL14134** ..... 11"
- ALL14135** ..... 14"

### Red

- ALL14126** ..... 7"
- ALL14127** ..... 14"

### Blue

- ALL14128** ..... 7"
- ALL14129** ..... 14"

### Yellow

- ALL14136** ..... 7"
- ALL14137** ..... 14"

### Purple

- ALL14138** ..... 7"
- ALL14139** ..... 14"

## Heavy-Duty Nylon Tie Wraps

Heavy-duty black nylon ties are ideal for emergency repairs and applications that require a secure attachment.

- ALL14380** ..... 8", 25-Pack
- ALL14381** ..... 14", 25-Pack
- ALL14383** ..... 21", 10-Pack
- ALL14385** ..... 36", 10-Pack



## Nylon Flush-Fit Tie Wraps

Flush-fit design ties have the excess portion of the tie exit in the same direction as the original tie, helping to eliminate the protruding sharp portion remaining as found in standard ties. Package of 100.

- ALL14395** ..... 8"
- ALL14396** ..... 11"



## Nylon Tie Wraps with Mounting Holes

Built-in tab with mounting hole to easily secure wiring harnesses, hoses, or cables to a panel with rivets or other fasteners. Package of 25.

- ALL14390** ..... 8" with 3/16" Mounting Hole
- ALL14391** ..... 11" with 3/16" Mount Hole
- ALL14392** ..... 14" with 1/4" Mounting Hole



## Tie Wrap Tool **ALL11005**

Tired of cuts from nylon tie wraps that have been trimmed with standard wire cutters? This tool does a great job of drawing nylon ties tight around bundles of wires or cables in tight areas and easily cuts with a twist of the wrist. ABS constructed tool has steel cutting blades and works with common size nylon wire ties.



## Stainless Steel Tie Wraps

Stainless steel ties are an excellent choice when securing header wrap to exhaust tubes or similar applications when nylon wraps won't stand up to the heat! Rust and corrosion resistant cable ties are T-304 stainless.

- ALL34262** .... 7-1/2" Long, Package of 8
- ALL34264** .... 14-1/2" Long, Package of 4



## Tie Wrap Mounting Bases

Self-adhesive mounting bases provide a location for attaching standard tie wraps to secure wiring, cables and hoses. Bases mount to clean, flat surfaces and accept most standard wire ties. Package of 10.



- ALL14116** ..... 3/4" x 3/4"
- ALL14117** ..... 1-1/8" x 1-1/8"



## Safety Wire Twister Pliers **ALL10120**

Never lose another race because of loose bolts. Rugged pliers have an end bearing for smoother, faster twisting, especially in tight areas where a second pull is needed.



## Safety Wire

Wire is used to mechanically lock pre-drilled fasteners for added security. Type 302/304 stainless steel wire features high corrosion resistance and good tensile strength in applications up to 500°F. Sold in a 1-lb. spool enclosed in a convenient dispensing container.

- ALL10121** ..... 0.032" Diameter
- ALL11008** ..... 0.041" Diameter



## Safety Wire Drill Fixture

### **ALL10122**

Accurately drill holes in fasteners, allowing them to be mechanically locked in place with safety wire. Fixture accommodates most 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" socket head and hex head fasteners. Guide bolt tightens against fastener, holding it secure for drilling. Fixture includes two guide bolts and two 1/16" drill bits conveniently stored within the fixture.



## Replacement Component

- ALL99102** ..... 1/16" Drill Bits, 2-Pack



## Quick Turn Fasteners

FASTENERS



Flush Head			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
5/16"	.500"	Aluminum	ALL19256	ALL19258	ALL19257	ALL19259
5/16"	.500"	Steel	ALL19186	ALL19188	—	—
7/16"	.400"	Aluminum	ALL19260	ALL19262	ALL19261	ALL19263
7/16"	.400"	Steel	ALL19190	ALL19192	—	—
7/16"	.500"	Aluminum	ALL19266	ALL19268	ALL19267	ALL19269
7/16"	.500"	Steel	ALL19200	ALL19202	—	—
7/16"	.550"	Aluminum	ALL19270	ALL19272	ALL19271	ALL19273
7/16"	.550"	Steel	ALL19210	ALL19212	—	—



Flush Head Self-Ejecting			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
5/16"	.400"	Steel	ALL18990	ALL18992	ALL18991	ALL18993
5/16"	.450"	Steel	ALL18996	ALL18998	—	—
5/16"	.500"	Aluminum	ALL18997	ALL18999	ALL19004	ALL19005
5/16"	.500"	Steel	ALL19000	ALL19002	ALL19001	ALL19003
5/16"	.550"	Steel	ALL19006	ALL19008	—	—
5/16"	.650"	Steel	ALL19010	ALL19012	—	—
7/16"	.500"	Aluminum	ALL19113	ALL19114	ALL19115	ALL19116
7/16"	.500"	Steel	ALL19100	ALL19102	ALL19098	ALL19099
7/16"	.550"	Steel	ALL19110	ALL19112	ALL19101	ALL19103



Flush Head Allen			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
7/16"	.500"	Aluminum	ALL19117	ALL19118	ALL19140	ALL19141
7/16"	.500"	Steel	ALL19142	ALL19143	—	—
7/16"	.550"	Steel	ALL19144	ALL19145	—	—



Flush Head Self-Ejecting Allen			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
5/16"	.500"	Aluminum	—	—	ALL19128	ALL19129
5/16"	.500"	Steel	ALL19130	ALL19131	—	—
5/16"	.550"	Steel	ALL19132	ALL19133	—	—
7/16"	.500"	Aluminum	—	—	ALL19134	ALL19135
7/16"	.500"	Steel	ALL19136	ALL19137	—	—
7/16"	.550"	Steel	ALL19138	ALL19139	—	—



Winged Head			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
7/16"	.400"	Steel	ALL19236	ALL19238	—	—
7/16"	.500"	Steel	ALL19240	ALL19242	ALL19241	ALL19243
7/16"	.550"	Steel	ALL19250	ALL19252	—	—



Winged Head Self-Ejecting			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
5/16"	.450"	Steel	ALL19046	ALL19048	—	—
5/16"	.500"	Steel	ALL19050	ALL19052	—	—
5/16"	.550"	Steel	ALL19056	ALL19058	—	—
5/16"	.650"	Steel	ALL19060	ALL19062	—	—
7/16"	.500"	Steel	ALL19064	ALL19066	—	—
7/16"	.650"	Steel	ALL19068	ALL19070	—	—





## Quick Turn Fasteners



Oval Head			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
1/4"*	.400"	Steel	ALL19211	ALL19213	ALL19224	ALL19225
5/16"	.500"	Aluminum	ALL19276	ALL19278	ALL19277	ALL19279
5/16"	.500"	Steel	ALL19214	ALL19215	ALL19226	ALL19227
7/16"	.400"	Aluminum	ALL19280	ALL19282	ALL19281	ALL19283
7/16"	.400"	Steel	ALL19216	ALL19218	—	—
7/16"	.500"	Aluminum	ALL19286	ALL19288	ALL19284	ALL19285
7/16"	.500"	Steel	ALL19220	ALL19222	ALL19228	ALL19229
7/16"	.550"	Aluminum	ALL19290	ALL19292	ALL19291	ALL19293
7/16"	.550"	Steel	ALL19230	ALL19232	ALL19231	ALL19233
7/16"	.600"	Aluminum	—	—	ALL19294	ALL19295
7/16"	.750"	Aluminum	ALL19274	ALL19275	—	—

\* Use .062" diameter springs ALL19296 or ALL19298.



Oversized Oval Head			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
7/16"	.500"	Aluminum	ALL19287	ALL19289	ALL19168	ALL19169
7/16"	.500"	Steel	ALL19221	ALL19223	ALL19170	ALL19171



Oval Head Allen			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
5/16"	.500"	Steel	ALL19152	ALL19153	—	—
5/16"	.550"	Steel	ALL19154	ALL19155	—	—
7/16"	.500"	Aluminum	ALL19172	ALL19173	ALL19176	ALL19177
7/16"	.500"	Steel	ALL19162	ALL19163	—	—
7/16"	.550"	Steel	ALL19164	ALL19165	—	—



Oversized Oval Head Allen			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
7/16"	.500"	Aluminum	ALL19180	ALL19181	ALL19178	ALL19179



Oval Head T-30 Torx			Silver		Black	
Body Size	Length	Material	10 Pack	50 Pack	10 Pack	50 Pack
7/16"	.500"	Aluminum	ALL19071	ALL19072	ALL19073	ALL19074
7/16"	.550"	Aluminum	ALL19075	ALL19076	ALL19077	ALL19078

### Quick Turn Starter Kit

ALL19410



Not sure where to start when using quick turn fasteners? Use this kit as a starting point to determine correct fasteners for application. Kit includes two different lengths of Allstar's most popular oval head 7/16" fasteners (see ALL19280 and see ALL19286), ten ALL19330 springs and twenty- ve multi-grip rivets.

### Quick Turn Fastener Tool

The quick turn fastener tool fits slot head fasteners and reduces the risk of body panel or fastener damage when using screwdrivers for loosening or tightening.

ALL19400 ..... Tool with Flat Handle

ALL19401 ..... Tool with Screwdriver Handle



ALL19400



ALL19401

## Quick Turn Springs



	10-Pack	50-Pack
<b>1-3/8" (.090" Wire Diameter)</b>		
.325" Reach	ALL19320	ALL19322
.375" Reach	ALL19330	ALL19332
.425" Reach	ALL19336	ALL19338
<b>1" (.080" Wire Diameter)</b>		
.250" Reach	ALL19300	ALL19302
.325" Reach	ALL19310	ALL19312
<b>3/4" (.062" Wire Diameter)</b>		
.200" Reach	ALL19296	ALL19298

## Mounting Brackets for 1" Springs (.0625" Thick)



Description	10-Pack	50-Pack
Weld-on, Lightweight	ALL19364	ALL19366
Weld-on Lightweight w/ .250" Spring	ALL19365	ALL19367
Weld-on	ALL19340	ALL19342
Weld-on w/ ALL19300 Spring	ALL19350	ALL19352

## Quick Turn Spring Fixture

Accurately drill panels when installing quick turn fastener springs. Start with a 1/4" center hole and use the fixture to locate and drill 1/8" holes for mounting the springs. Size listed is spring center-to-center distance.



- ALL19406..... Fixture for 3/4" Spring
- ALL19407..... Fixture for 1" Spring
- ALL19408..... Fixture for 1-3/8" Spring

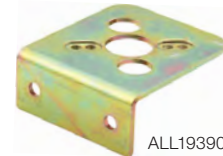
## Quick Turn Spring Adjuster

ALL19405

This tool is a must when adjusting tension of quick turn springs. Simply turn knob on adjuster to evenly pull spring from front or backside without kinking or breaking spring.



## Mounting Brackets for 1" and 1-3/8" Springs (.0625" Thick)



Description	10-Pack	50-Pack
Weld-on, Lightweight (for 1-3/8" Spring Only)	ALL19360	ALL19362
Weld-on, Lightweight w/ .375" Spring	ALL19361	ALL19363
Weld-on LH	ALL19380	ALL19382
Weld-on RH	ALL19384	ALL19386
Rivet-on LH	ALL19390	ALL19392
Rivet-on RH	ALL19394	ALL19396

## Transfer Punches

For use with quick turn fasteners, place transfer punch in a weld plate or body panel. Position panel over top of punch and lightly tap with a hammer to leave a mark on the panel where hole is to be drilled.



- ALL19402..... For 5/16" Fasteners
- ALL19403..... For 7/16" Fasteners

## TECH TIP

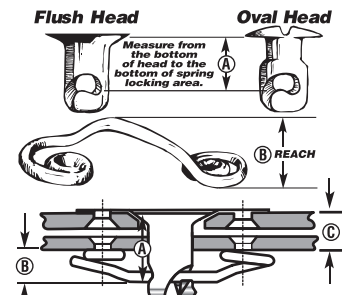
### Quick Turn Fastener Measurement Guidelines

To find (A) Fastener Length, add together (B) Spring Reach and (C) Material Thickness (including bracket if applicable). A=B+

### Quick Turn Fastener Selection

- Determine the total thickness of the panels being joined, including mounting brackets and the space between the panels, if any.
- Select the proper body length and spring height combination that provides the proper thickness range.

Spring Length "B"		Fastener Length "A"				
		.400"	.450"	.500"	.550"	.600"
1" Springs	.250"	Total Material Thickness "C"				
	.325"	.165"-.200"	.215"-.250"	.265"-.300"	.315"-.350"	.365"-.400"
	.425"	.098"-.133"	.148"-.183"	.198"-.233"	.248"-.283"	.348"-.383"
1-3/8" Springs	.325"	.105"-.148"	.155"-.198"	.205"-.248"	.255"-.298"	.355"-.398"
	.375"	.055"-.098"	.105"-.148"	.155"-.198"	.205"-.248"	.305"-.348"
	.425"	.005"-.048"	.055"-.098"	.105"-.148"	.155"-.198"	.255"-.298"





## Clamp-On Quick Turn Fastener Brackets

These cool brackets allow you to clamp a quick turn bracket to round tubing. Allows a flush mount bracket behind a panel without grinding your powder coat. Designed for use with 1-3/8" quick turn springs, insert plates or threaded nut inserts. Black anodized.



- ALL19430**..... 1"
- ALL19431**..... 1-1/4"
- ALL19432**..... 1-3/8"
- ALL19433**..... 1-1/2"
- ALL19434**..... 1-5/8"
- ALL19435**..... 1-3/4"

### Related Components

- ALL19330**..... Quick Turn Spring 1-3/8" (Most Popular)
- ALL19422**..... Quick Turn Insert Plate, 1/4"- 20 Thread
- ALL18547**..... Threaded Nut Insert, Steel, 1/4"- 20 Thread
- ALL18548**..... Threaded Nut Insert, Aluminum, 1/4"- 20 Thread



## Quick Turn Fastener Insert Plates

Insert plate directly replaces the quick turn spring, allowing panels to be bolted together. May also be used as a blind nut on a panel with limited access. Inserts have 1/4"-20 threads and are typically riveted to the backside of a panel or bracket with 1/8" rivets.



- ALL19420**..... 1", 2-Pack
- ALL19420-10**..... 1", 10-Pack
- ALL19420-50**..... 1", 50-Pack
- ALL19422**..... 1-3/8", 2-Pack
- ALL19422-10**..... 1-3/8", 10-Pack
- ALL19422-50**..... 1-3/8", 50-Pack

## Body Reinforcing Plates

Plates help protect fiberglass and aluminum panels from cracking when using 7/16" quick turn fasteners. Stainless steel plates are precision stamped with a strengthening border, attach with 1/8" rivets, and measure 2" wide x 1" tall.



- ALL18985**..... Natural, 10-Pack
- ALL18985-50**..... Natural, 50-Pack
- ALL18986**..... Black, 10-Pack
- ALL18986-50**..... Black, 50-Pack

## Threaded Insert Tool Kit

### ALL19450

Tool works with a cordless drill to install a threaded insert into a panel or bracket. Inserts are helpful when the backside of the panel is not easily accessible. Simply drill the correct size hole, install the threaded insert onto the mandrel, then place the insert into the hole and tighten using any cordless drill. Once the insert is compressed, reverse the drill and remove the mandrel from the insert. Kit includes mandrel and nosepiece for 1/4"-20, 5/16"-18, and 3/8"-16 inserts; other sizes available separately. Threaded inserts sold separately.



### Replacement Components

- ALL19452**..... Mandrel and Nosepiece for 8-32
- ALL19453**..... Mandrel and Nosepiece for 10-24
- ALL19454**..... Mandrel and Nosepiece for 10-32
- ALL19455**..... Mandrel and Nosepiece for 1/4"-20
- ALL19456**..... Mandrel and Nosepiece for 5/16"-18
- ALL19457**..... Mandrel and Nosepiece for 3/8"-16



## Threaded Inserts

Steel inserts are helpful when the backside of the panel is not easily accessible. Inserts work great for frequently removed items including gauge panels, switch panels, access panels, and body panels, or when mounting items to trailer walls. Inserts are designed for installation using insert tool ALL19450 with coordinating mandrel and nosepiece. Package of 10.



Part No.	Thread Size	Pilot Hole Size	Grip Range	Body Length (Before Comp.)
<b>ALL19460</b>	8-32	17/64"	Up to .080"	.420"
<b>ALL19461</b>	10-24	5/16"	Up to .130"	.475"
<b>ALL19462</b>	10-32	5/16"	Up to .130"	.475"
<b>ALL19463</b>	1/4"-20	13/32"	Up to .165"	.580"
<b>ALL19465</b>	5/16"-18	17/32"	Up to .150"	.690"
<b>ALL19467</b>	3/8"-16	17/32"	Up to .150"	.690"



Bryant Goldstone





## Countersunk Bolt Kits with Aluminum Washers

Kit includes specially designed aluminum washers which allow the socket head fasteners to install flush with the surface creating a smooth finished look. Many uses include mounting roofs, side skirts, and spoilers, and replacing sharp edged fasteners inside cockpit. Kits include washers, bolts, and nyloc nuts.



ALL18630

ALL18633

Bolt Size	Washer O.D.	Finish	10-Pack	50-Pack
#10-24 x 1"	1"	Clear	<b>ALL18630</b>	<b>ALL18630-50</b>
#10-24 x 1"	1"	Black	<b>ALL18631</b>	<b>ALL18631-50</b>
1/4"-20 x 1"	3/4"	Clear	<b>ALL18628</b>	<b>ALL18628-50</b>
1/4"-20 x 1"	3/4"	Black	<b>ALL18629</b>	<b>ALL18629-50</b>
1/4"-20 x 1"	1"	Clear	<b>ALL18632</b>	<b>ALL18632-50</b>
1/4"-20 x 1"	1"	Black	<b>ALL18633</b>	<b>ALL18633-50</b>
1/4"-20 x 1"	1-1/4"	Clear	<b>ALL18634</b>	<b>ALL18634-50</b>
1/4"-20 x 1"	1-1/4"	Black	<b>ALL18635</b>	<b>ALL18635-50</b>



ALL18660

## Aluminum Countersunk Washers

Washer I.D. x O.D.	Finish	10-Pack	50-Pack
#10 x 1"	Clear	<b>ALL18660</b>	<b>ALL18660-50</b>
#10 x 1"	Black	<b>ALL18661</b>	<b>ALL18661-50</b>
1/4" x 3/4"	Clear	<b>ALL18658</b>	<b>ALL18658-50</b>
1/4" x 3/4"	Black	<b>ALL18659</b>	<b>ALL18659-50</b>
1/4" x 1"	Clear	<b>ALL18662</b>	<b>ALL18662-50</b>
1/4" x 1"	Black	<b>ALL18663</b>	<b>ALL18663-50</b>
1/4" x 1-1/4"	Clear	<b>ALL18664</b>	<b>ALL18664-50</b>
1/4" x 1-1/4"	Black	<b>ALL18665</b>	<b>ALL18665-50</b>



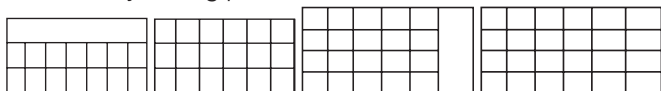
ALL18638

## Aluminum Flat Backer Washers

Washer I.D. x O.D.	Finish	10-Pack	50-Pack
#10 x 1"	Clear	<b>ALL18638</b>	-
1/4" x 1"	Clear	<b>ALL18639</b>	-

## Storage Cases

These handy storage cases help organize many items around the shop, trailer or home such as electrical connectors, quick turn fasteners, tire groover blades, small fasteners and many more items. Curved bottom compartments create a smooth scoop, making it easy to remove the smallest of items. Molded-in dividers prevent items from slipping under dividers and accidentally mixing product.



ALL14360

ALL14361

ALL14365

ALL14366

- ALL14360**..... Plastic Case 15 Compartment, 11" x 7" x 1-3/4"
- ALL14361**..... Plastic Case 18 Compartment, 11" x 7" x 1-3/4"
- ALL14365**..... Metal Case 21 Compartment, 9-1/2" x 13-1/2" x 2"
- ALL14366**..... Metal Case 24 Compartment, 9-1/2" x 13-1/2" x 2"

## Countersunk Bolt Kits with Plastic Washers

Kit includes specially designed plastic washers which allow the socket head fasteners to install flush with the surface creating a smooth finished look. Many uses include mounting roofs, side skirts, spoilers and replacing sharp edged fasteners inside cockpit. Kits include washers, bolts, and nyloc nuts.



Bolt Size	Washer		10-Pack	50-Pack
	O.D.	Color		
1/4"-20 x 1"	1"	Black	<b>ALL18680</b>	<b>ALL18680-50</b>
1/4"-20 x 1"	1"	White	<b>ALL18681</b>	<b>ALL18681-50</b>
1/4"-20 x 1"	1"	Red	<b>ALL18682</b>	<b>ALL18682-50</b>
1/4"-20 x 1"	1"	Blue	<b>ALL18683</b>	<b>ALL18683-50</b>
1/4"-20 x 1"	1"	Orange	<b>ALL18684</b>	<b>ALL18684-50</b>
1/4"-20 x 1"	1"	Silver	<b>ALL18685</b>	<b>ALL18685-50</b>
1/4"-20 x 1"	1"	Pink	<b>ALL18686</b>	<b>ALL18686-50</b>
1/4"-20 x 1"	1"	Purple	<b>ALL18687</b>	<b>ALL18687-50</b>
1/4"-20 x 1"	1"	Fluorescent Yellow	<b>ALL18688</b>	<b>ALL18688-50</b>
1/4"-20 x 1"	1"	Fluorescent Orange	<b>ALL18689</b>	<b>ALL18689-50</b>

## Plastic Countersunk Washers

Washer I.D. x O.D.	Color	10-Pack	50-Pack
1/4" x 1"	White	<b>ALL18691</b>	<b>ALL18691-50</b>
1/4" x 1"	Red	<b>ALL18692</b>	<b>ALL18692-50</b>
1/4" x 1"	Blue	<b>ALL18693</b>	<b>ALL18693-50</b>
1/4" x 1"	Orange	<b>ALL18694</b>	<b>ALL18694-50</b>
1/4" x 1"	Silver	<b>ALL18695</b>	<b>ALL18695-50</b>
1/4" x 1"	Pink	<b>ALL18696</b>	<b>ALL18696-50</b>
1/4" x 1"	Purple	<b>ALL18697</b>	<b>ALL18697-50</b>
1/4" x 1"	Fluorescent Yellow	<b>ALL18698</b>	<b>ALL18698-50</b>
1/4" x 1"	Fluorescent Orange	<b>ALL18699</b>	<b>ALL18699-50</b>



## Steel Fender Washers

### ALL18216

Washers have 1/4" I.D., 1" O.D. and are sold 100 to a pack.



## Spin Lock Nuts

Nuts have a built-in washer with a serrated face to lock nut tight against panels. 1/4"-20 nuts are perfect to use as a backer nut with Allstar body bolts, nose bolts, and body stud kits.



Color	10-Pack	50-Pack
Black	<b>ALL18555</b>	<b>ALL18555-50</b>
Gold	<b>ALL18556</b>	<b>ALL18556-50</b>
Silver	<b>ALL18557</b>	<b>ALL18557-50</b>

## Body Bolt Kits

Bolts are designed for easy installation and removal, have 1/4"-20 thread and a built-in captured washer. Nuts have built-in serrations which prevent loosening. Body bolts are commonly used to fasten body panels and side skirts for easy removal but may be used anywhere a bolt with a captured washer is needed.



Under-Head Length	Color	10-Pack	50-Pack
3/4"	Black	<b>ALL18553</b>	<b>ALL18553-50</b>
	Clear	<b>ALL18654</b>	<b>ALL18654-50</b>
1-1/8"	Black	<b>ALL18560</b>	<b>ALL18560-50</b>
	Clear	<b>ALL18655</b>	<b>ALL18655-50</b>
	Gold	<b>ALL18561</b>	<b>ALL18561-50</b>

## Body Bolts

These bolts are the same bolts found in our body bolt kits but without nuts. Bolts have 1/4"-20 threads and a built-in captured washer. Bolts are commonly used to fasten body panels and side skirts for easy removal, used anywhere a bolt with a captured washer is needed.



Under-Head Length	Color	10-Pack	50-Pack
3/4"	Black	<b>ALL16550</b>	<b>ALL16550-50</b>
	Silver	<b>ALL16552</b>	<b>ALL16552-50</b>
1-1/8"	Black	<b>ALL16553</b>	<b>ALL16553-50</b>
	Gold	<b>ALL16554</b>	<b>ALL16554-50</b>
	Silver	<b>ALL16555</b>	<b>ALL16555-50</b>

## Threaded Nut Insert

Insert provides a convenient option to quickly install and easily remove a 1/4"-20 fastener on panels up to 1/8" thick. Insert fits into a 3/8" O.D. hole and is held in place on the backside with a steel serrated locking nut. Internal threads accept fasteners ideal for mounting dash panels, access panels, body panels, electrical components, or other accessories.



Insert Material	2-Pack	10-Pack	50-Pack
Steel	<b>ALL18547</b>	<b>ALL18547-10</b>	<b>ALL18547-50</b>
Aluminum	<b>ALL18548</b>	<b>ALL18548-10</b>	<b>ALL18548-50</b>

## Quick Turn Fastener Insert Plates

Insert plate directly replaces the quick turn spring, allowing panels to be bolted together or used as a blind nut on a panel with limited access. Inserts have 1/4"-20 threads and are typically riveted to the backside of a panel or bracket with 1/8" rivets.



- ALL19420** ..... 1", 2-Pack
- ALL19420-10** ..... 1", 10-Pack
- ALL19420-50** ..... 1", 50-Pack
- ALL19422** ..... 1-3/8", 2-Pack
- ALL19422-10** ..... 1-3/8", 10-Pack
- ALL19422-50** ..... 1-3/8", 50-Pack

## Body Bolt Kit with Clips

Kit allows the clip to stay fastened to body panel or angle bracing when removing body panels for maintenance or cleaning. 1/4"-20 thread bolts are 1-1/8" UHL and have a built-in captured washer.



Bolt Color	10-Pack	50-Pack
Black	<b>ALL18558</b>	<b>ALL18558-50</b>
Clear	<b>ALL18656</b>	<b>ALL18656-50</b>
Gold	<b>ALL18559</b>	<b>ALL18559-50</b>

## Body Bolt Clips

Steel clips have built-in 1/4"-20 threads making them ideal for often removed panels or when the backside is not easily accessible. Clips feature a friction tab to hold clips firmly in place on panels up to 3/16" thick. Dimension listed is center of hole to edge of clip (depth).



Depth	10-Pack	50-Pack
1/2"	<b>ALL18554</b>	<b>ALL18554-50</b>
3/4"	<b>ALL18564</b>	<b>ALL18564-50</b>

## Aluminum Body Bolt Washers

1-1/4" O.D. aluminum washers work with most body bolts to increase the surface area, preventing pull-through while providing a smooth finished look. Washers are 1/8" thick and have a built-in pocket to accept most body bolts or other washer-headed fasteners up to 3/4" in diameter.



Finish	10-Pack	50-Pack
Clear	<b>ALL18840</b>	<b>ALL18840-50</b>
Black	<b>ALL18841</b>	<b>ALL18841-50</b>

## Plastic Body Bolt Washers

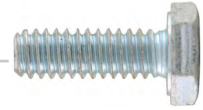
1-1/4" O.D. plastic washers work with most body bolts to increase the surface area, preventing pull-through while providing a smooth, finished look. Washers are 1/8" thick and have a built-in pocket to accept most body bolts or other washer-headed fasteners up to 3/4" in diameter.



Color	10-Pack	50-Pack
Black	<b>ALL18845</b>	<b>ALL18845-50</b>
White	<b>ALL18846</b>	<b>ALL18846-50</b>
Red	<b>ALL18847</b>	<b>ALL18847-50</b>
Blue	<b>ALL18848</b>	<b>ALL18848-50</b>
Orange	<b>ALL18849</b>	<b>ALL18849-50</b>
Silver	<b>ALL18850</b>	<b>ALL18850-50</b>
Pink	<b>ALL18851</b>	<b>ALL18851-50</b>
Purple	<b>ALL18852</b>	<b>ALL18852-50</b>
Fluorescent Yellow	<b>ALL18853</b>	<b>ALL18853-50</b>
Fluorescent Orange	<b>ALL18854</b>	<b>ALL18854-50</b>



## Hex Head Bolts – Coarse Thread Grade 5



Length	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	5/8"-11	3/4"-10
3/4"	ALL16201	ALL16221	ALL16241	-	ALL16281	-	-
1"	ALL16202	ALL16222	ALL16242	ALL16262	ALL16282	-	-
1-1/4"	ALL16203	ALL16223	ALL16243	ALL16263	ALL16283	-	-
1-1/2"	ALL16204	ALL16224	ALL16244	ALL16264	ALL16284	-	-
1-3/4"	ALL16205	ALL16225	ALL16245	ALL16265	ALL16285	-	-
2"	ALL16206	ALL16226	ALL16246	ALL16266	ALL16286	ALL16316	ALL16336
2-1/4"	-	-	-	-	ALL16287	-	-
2-1/2"	ALL16208	ALL16228	ALL16248	-	ALL16288	ALL16318	ALL16338
2-3/4"	-	-	-	-	ALL16289	-	-
3"	ALL16210	-	ALL16250	ALL16270	ALL16290	ALL16320	ALL16340
3-1/2"	ALL16211	-	-	-	ALL16291	ALL16321	-
4"	ALL16212	-	ALL16252	-	ALL16292	ALL16322	ALL16342
4-1/2"	ALL16213	-	-	-	ALL16293	-	-
5"	ALL16214	-	ALL16254	-	ALL16294	ALL16324	ALL16344
6"	-	-	ALL16256	-	ALL16296	-	ALL16346
6-1/2"	-	-	-	-	-	-	ALL16347
7"	-	-	ALL16258	-	ALL16298	-	ALL16348
8"	-	-	-	-	-	-	ALL16350

## Hex Head Bolts – Fine Thread Grade 5



Length	1/4"-28 Part No.	5/16"-24 Part No.	3/8"-24 Part No.	7/16"-20 Part No.	1/2"-20 Part No.	5/8"-18 Part No.	3/4"-16 Part No.
1"	ALL16402	ALL16422	ALL16442	ALL16462	ALL16482	-	-
1-1/2"	ALL16404	ALL16424	-	ALL16464	ALL16484	-	-
2"	ALL16406	ALL16426	ALL16446	ALL16466	ALL16486	-	ALL16536
2-1/2"	-	-	-	ALL16468	ALL16488	ALL16518	ALL16538
3"	-	-	-	ALL16470	ALL16490	ALL16520	ALL16540
4"	-	-	-	ALL16472	ALL16492	ALL16522	ALL16542
5"	-	-	-	ALL16474	-	-	-
6"	-	-	-	ALL16476	-	-	ALL16546

## Button Head Bolts

Common bolts provide a nice finished look to your project.



Size	Length	Pkg Qty	Black	Stainless
8-32	1/2"	25	ALL16936	ALL16920
10-24	1/2"	25	ALL16938	ALL16922
1/4"-20	1/2"	25	ALL16940	ALL16924
1/4"-20	3/4"	25	ALL16941	ALL16925
5/16"-18	1"	10	ALL16944	-
3/8"-16	1"	10	ALL16946	-

## Set Screws

Standard cup point set screws are manufactured from alloy steel and heat treated for maximum holding power. Common replacements for oil pump pulleys, coil over kits, and many other applications. Package of 10.



ALL16903

- ALL16902 ..... #10-24 x 3/8"
- ALL16903 ..... #10-32 x 3/8"
- ALL16905 ..... 1/4"-20 x 1/4"
- ALL16907 ..... 1/4"-20 x 3/4"

## Windshield Mounting Kit

Flat #8-32 x 1/2" long head countersunk bolt kits are the correct way to mount racing windshields to minimize cracking commonly found when using rivets. Use when you need a finish. Package of 50.



- ALL16914 ..... Stainless
- ALL16930 ..... Black

## Socket Head Bolts Coarse Thread Grade 5

Socket head bolts are coarse thread, grade 5. Package of 5.



Length	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13
3/4"	ALL16731	ALL16741	ALL16751	-	-
1"	ALL16732	ALL16742	ALL16752	ALL16762	ALL16772
1-1/2"	ALL16734	ALL16744	ALL16754	ALL16764	ALL16774
2"	ALL16736	ALL16746	ALL16756	ALL16766	ALL16776





## Hex Nuts and Washers



Coarse Thread	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	5/8"-11	3/4"-10
Nut, 10-Pack	ALL16000-10	ALL16001-10	ALL16002-10	ALL16003-10	ALL16004-10	ALL16005-10	ALL16006-10
Nut, 50-Pack	ALL16000-50	ALL16001-50	ALL16002-50	ALL16003-50	ALL16004-50	-	-
Nylon Insert, 10-Pack	ALL16010-10	ALL16011-10	ALL16012-10	ALL16013-10	ALL16014-10	ALL16015-10	ALL16016-10
Nylon Insert, 50-Pack	ALL16010-50	ALL16011-50	ALL16012-50	ALL16013-50	ALL16014-50	-	-
Thin Nylon Insert, 10-Pack	ALL16020-10	ALL16021-10	ALL16022-10	ALL16023-10	ALL16024-10	ALL16025-10	ALL16026-10
Mech. Lock Nut, 10-Pack	ALL16030-10	ALL16031-10	ALL16032-10	ALL16033-10	ALL16034-10	-	ALL16036-10
Flange Nut, 10-Pack	ALL18557	ALL16041-10	ALL16042-10	ALL16043-10	ALL16044-10	ALL16045-10	-

Fine Thread	1/4"-28	5/16"-24	3/8"-24	7/16"-20	1/2"-20	5/8"-18	3/4"-16
Nut, 10-Pack	ALL16050-10	ALL16051-10	ALL16052-10	ALL16053-10	ALL16054-10	ALL16055-10	-
Nylon Insert, 10-Pack	ALL16060-10	ALL16061-10	ALL16062-10	ALL16063-10	ALL16064-10	ALL16065-10	ALL16066-10
Thin Nylon Insert, 10-Pack	ALL16070-10	ALL16071-10	ALL16072-10	ALL16073-10	ALL16074-10	ALL16075-10	ALL16076-10
Mech. Lock Nut, 10-Pack	ALL16080-10	ALL16081-10	ALL16082-10	ALL16083-10	ALL16084-10	ALL16085-10	ALL16086-10

Washers	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
USS Flat*, 25-Pack	ALL16100-25	ALL16101-25	ALL16102-25	ALL16103-25	ALL16104-25	-	-
SAE Flat*, 25-Pack	ALL16110-25	ALL16111-25	ALL16112-25	ALL16113-25	ALL16114-25	ALL16115-25	ALL16116-25
Lock, 25-Pack	ALL16120-25	ALL16121-25	ALL16122-25	ALL16123-25	ALL16124-25	ALL16125-25	ALL16126-25
AN, 25-Pack	ALL16150-25	ALL16151-25	ALL16152-25	ALL16153-25	ALL16154-25	-	-

\*USS washers have a larger O.D. than SAE washers

### Steel Jam Nut Assortments



Assortments contain one each of 1/4"-20, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 5/8"-18, and 3/4"-16.

**ALL18290** ..... 35 Asst. RH Jam Nuts

**ALL18291** ..... 35 Asst. LH Jam Nuts

### Jam Nuts - Standard Hex

Allstar jam nuts have many uses. Great for locking rod ends tightly on suspension tubes or rack and pinion steering units. Package of 4, unless noted.

Thread	Wrench	Steel	Aluminum
1/4"-28 RH	7/16"	ALL18250	-
1/4"-28 LH	7/16"	ALL18251	-
5/16"-24 RH	1/2"	ALL18252	-
5/16"-24 LH	1/2"	ALL18253	-
3/8"-24 RH	9/16"	ALL18254	ALL18274
3/8"-24 LH	9/16"	ALL18255	ALL18275
7/16"-20 RH	11/16"	ALL18256	ALL18276
7/16"-20 LH	11/16"	ALL18257	ALL18277
1/2"-20 RH	3/4"	ALL18258	ALL18278
1/2"-20 LH	3/4"	ALL18259	ALL18279
5/8"-18 RH	15/16"	ALL18260	ALL18280
5/8"-18 LH	15/16"	ALL18261	ALL18281
3/4"-16 RH	1-1/8"	ALL18262	ALL18282
3/4"-16 LH	1-1/8"	ALL18263	ALL18283
3/4"-10 RH	1-1/8"	ALL18264†	-
7/8"-9 RH	1-5/16"	ALL18266†	-
1"-8 RH	1-1/2"	ALL56110†	-

†Sold each.

### Jam Nuts - Small Hex



Specialty jam nuts have smaller outside diameters, allowing smaller wrenches to be used when changing radius rod lengths. Example: with 1/2" bolts, the same 3/4" wrench can be used to adjust radius rod or mounting hole locations. Package of 4.

Thread Size	Wrench Size	Steel	Alum.	Black Alum.
5/8"-18 RH	3/4"	ALL18292	ALL18296	ALL18286
5/8"-18 LH	3/4"	ALL18293	ALL18297	ALL18287
3/4"-16 RH	15/16"	ALL18294	ALL18298	ALL18288
3/4"-16 LH	15/16"	ALL18295	ALL18299	ALL18289

### Spin Lock Nuts



Nuts have a built-in washer with a serrated face to lock nut tight against panels. 1/4"-20 nuts are perfect to use as a backer nut with Allstar body bolts, nose bolts, and body stud kits.

Color	10-Pack	50-Pack
Black	ALL18555	ALL18555-50
Gold	ALL18556	ALL18556-50
Silver	ALL18557	ALL18557-50

### Black Half Nuts ALL17048



Black plated steel 1/2"-20 nylon lock nuts are grade 8 and a lightweight option to keep fasteners in place. Package of 10.



## Tapered Spacers

Universal spacers have many uses including spacing rod ends on linkages to prevent binding or just to provide clearance. Spacers provide a finished look when fitting body panels or spacing components away from doors and fenders. Package of 2.



I.D.	Small O.D.	Large O.D.	Length	Steel	Aluminum
1/4"	.345"	.500"	1/4"	-	<b>ALL18700</b>
			1/2"	-	<b>ALL18702</b>
5/16"	.475"	.625"	1/4"	-	<b>ALL18706</b>
			1/2"	-	<b>ALL18708</b>
3/8"	.525"	.680"	1/4"	-	<b>ALL18712</b>
			1/2"	-	<b>ALL18714</b>
1/2"	.740"	.995"	1"	-	<b>ALL18716</b>
			1/4"	<b>ALL18570</b>	<b>ALL18590</b>
			3/8"	<b>ALL18571</b>	-
			1/2"	<b>ALL18572</b>	<b>ALL18592</b>
			3/4"	<b>ALL18574</b>	<b>ALL18594</b>
			1"	<b>ALL18576</b>	<b>ALL18596</b>
5/8"	.825"	.995"	1-1/2"	<b>ALL18578</b>	<b>ALL18595</b>
			1/4"	<b>ALL18580</b>	<b>ALL18597</b>
			1/2"	<b>ALL18582</b>	<b>ALL18598</b>
			3/4"	<b>ALL18584</b>	<b>ALL18599</b>
			1"	<b>ALL18586</b>	-
3/4"	.950"	1.125"	1-1/2"	<b>ALL18585</b>	-
			1/2"	<b>ALL18587</b>	-
			3/4"	<b>ALL18588</b>	-
			1"	<b>ALL18589</b>	-

## Hourglass Spacers



Tired of simple spacers on your cool ride, these aluminum spacers look nice while also offering additional support on both ends. Package of 2.

Length	1/4" I.D. 1" O.D.	5/16" I.D. 1" O.D.	3/8" I.D. 1" O.D.	1/2" I.D. 1-1/2" O.D.
1/4"	<b>ALL18800</b>	<b>ALL18810</b>	<b>ALL18820</b>	<b>ALL18830</b>
1/2"	<b>ALL18802</b>	<b>ALL18812</b>	<b>ALL18822</b>	<b>ALL18832</b>
1"	<b>ALL18804</b>	<b>ALL18814</b>	<b>ALL18824</b>	<b>ALL18834</b>
1-1/2"	<b>ALL18806</b>	<b>ALL18816</b>	<b>ALL18826</b>	<b>ALL18836</b>
2"	<b>ALL18808</b>	<b>ALL18818</b>	<b>ALL18828</b>	<b>ALL18838</b>

## Aluminum Flat Spacers

Flat spacers are great for shimming and adding additional clearance to brackets for brake calipers, power steering, alternators, dry sump pumps, or just about anything to help with alignment issues. Package of 2.



Length	3/8" I.D. (11/16" O.D.)	1/2" I.D. (1" O.D.)
1/8"	<b>ALL18740</b>	<b>ALL18760</b>
1/4"	<b>ALL18742</b>	<b>ALL18762</b>
3/8"	<b>ALL18744</b>	<b>ALL18764</b>
1/2"	<b>ALL18746</b>	<b>ALL18766</b>

## Rod End Reducer Bushings

Steel bushings reduce the rod end pivot ball I.D. to accept a smaller bolt size.



O.D. To I.D.	2-Pack	10-Pack
1/2" to 3/8"	<b>ALL18565</b>	<b>ALL18565-10</b>
5/8" to 1/2"	<b>ALL18566</b>	<b>ALL18566-10</b>
3/4" to 1/2"	<b>ALL18567</b>	<b>ALL18567-10</b>
3/4" to 5/8"	<b>ALL18568</b>	<b>ALL18568-10</b>

## High Misalignment Reducer Spacers

Dual-purpose spacers reduce fastener size mounting hole and allow the rod end to rotate more than 30° in each direction which is 25% more than most standard spacers. Stainless steel spacers resist rust and corrosion. Package of 2.



Rod End Size	I.D.	O.D. "A"	Length "B"	Overall Width "C"	Part No.
5/8"	1/2"	.750"	.465"	1.68"	<b>ALL18785</b>
3/4"	1/2"	.890"	.475"	1.825"	<b>ALL18786</b>
3/4"	5/8"	.890"	.475"	1.825"	<b>ALL18787</b>

## 5/8" Rod End Reducer Spacers

Reducer spacers fit into 5/8" rod ends, reducing the hole size for 1/2" hardware while also spacing the rod end away from chassis brackets.



Standard spacers are 3/4" O.D. and angled spacers have 1" O.D. angles to help support rod end. Size referenced indicates the amount of space between rod end pivot ball and chassis bracket. Package of 2.

### Standard Spacers

**ALL18615** ..... Aluminum, 1/2"  
**ALL18617** ..... Aluminum, 1"  
**ALL18618** ..... Aluminum, 1-1/4"  
**ALL18619** ..... Aluminum, 1-3/4"



### Flanged Spacers

**ALL18611** ..... Aluminum, 1/4"  
**ALL18613** ..... Aluminum, 1/2"  
**ALL18610** ..... Steel, 1/4"  
**ALL18612** ..... Steel, 1/2"



## Shock Spacers

Steel spacers have a 1/2" I.D. and 3/4" O.D. and can be used in a variety of other locations.



Length	2-Pack	10-Pack
1/4"	<b>ALL64280</b>	<b>ALL64280-10</b>
1/2"	<b>ALL64282</b>	<b>ALL64282-10</b>
5/8"	<b>ALL64283</b>	<b>ALL64283-10</b>
3/4"	<b>ALL64284</b>	<b>ALL64284-10</b>

## Rod Ends

Two-piece spherical rod ends have a pivoting steel ball and are sold each.



Bore x Thread	RH Male	LH Male	RH Female	Strength
<b>Standard Series Steel</b>				
1/4" x 1/4"-28	<b>ALL58004</b>	<b>ALL58014</b>	<b>ALL58034</b>	2,835 lbs.
5/16" x 5/16"-24	<b>ALL58005</b>	<b>ALL58015</b>	<b>ALL58035</b>	4,517 lbs.
3/8" x 3/8"-24	<b>ALL58006</b>	<b>ALL58016</b>	<b>ALL58036</b>	6,323 lbs.
1/2" x 1/2"-20	<b>ALL58008</b>	<b>ALL58018</b>	<b>ALL58038</b>	10,046 lbs.
5/8" x 5/8"-18	<b>ALL58010</b>	<b>ALL58020</b>	<b>ALL58040</b>	15,488 lbs.
3/4" x 3/4"-16	<b>ALL58012</b>	<b>ALL58022</b>	<b>ALL58042</b>	15,894 lbs.
3/4" x 3/4"-16	<b>ALL58013</b> <sup>†</sup>	-	-	15,894 lbs.
<b>Pro Series Steel (Moly) - Black</b>				
1/2" x 1/2"-20	<b>ALL58058</b>	<b>ALL58068</b>	-	17,000 lbs.
1/2" x 5/8"-18	<b>ALL58059</b>	<b>ALL58069</b>	-	19,300 lbs.
5/8" x 5/8"-18	<b>ALL58060</b>	<b>ALL58070</b>	-	18,000 lbs.
3/4" x 3/4"-16	<b>ALL58062</b>	<b>ALL58072</b>	-	25,000 lbs.
<b>Pro Series Steel (Moly) - Black (PTFE Lined)</b>				
1/2" x 1/2"-20	<b>ALL58078</b>	<b>ALL58083</b>	-	16,240 lbs.
1/2" x 5/8"-18	<b>ALL58079</b>	<b>ALL58084</b>	-	17,650 lbs.
5/8" x 5/8"-18	<b>ALL58080</b>	<b>ALL58085</b>	-	15,200 lbs.
3/4" x 3/4"-16	<b>ALL58082</b>	<b>ALL58086</b>	-	21,400 lbs.
<b>Aluminum - Black</b>				
1/2" x 1/2"-20	<b>ALL58088</b>	<b>ALL58098</b>	-	7,700 lbs.
1/2" x 5/8"-18	<b>ALL58089</b>	<b>ALL58099</b>	-	15,000 lbs.

<sup>†</sup>ALL58013 has an oversized hole and is for use with steering shaft tubing.

## Heavy-Duty 3/4" Chrome Moly Rod Ends

Often referred to as "Aircraft-Style", these heavy-duty 4130 chrome moly rod ends have larger bodies, making them thirty percent stronger than standard 3/4" rod ends. These rod ends are commonly used on Panhard bars and lower strut rods.



ALL99314 ALL99315

**ALL99314**..... RH Male, 3/4" x 3/4"-16  
**ALL99315**..... RH Female, 3/4" x 3/4"-16

## 3/4" Solid Rod End ALL58112

Solid rod ends are built using 1045 steel and are then chrome plated for added wear resistance. End has a body width of .875" to match the width of standard rod ends.



## Bolt Center Caps ALL10678

Caps slip over the head of standard 1/2" bolts to accurately measure the center-to-center length of installed suspension tube assemblies. Machined step secures the end of a standard tape measure for easy reading of the length to the center of the opposite cap. Caps feature a built-in O-ring that allows the cap to swivel on the bolt head and keeps it from falling off. Package of 2.



## Steel Shock Quick Pin ALL60108

Steel shock quick pins allow coil-over shocks to be quickly serviced or changed. Works with Allstar coil-over brackets, eliminating the need for a separate bushing. Shock quick pins are 2-1/2" long and include a hairpin. Sold each.



## Titanium Shock Quick Pins

Titanium shock quick pins allow coil-over shocks to be quickly serviced or changed. ALL17120 has a long shoulder and will work with Allstar coil-over brackets, eliminating the need for a separate bushing. ALL17121 is commonly used on non-bushing type brackets, but can be used with Allstar brackets along with bushing. Pins are 2-1/2" long and include a hairpin.



ALL17120

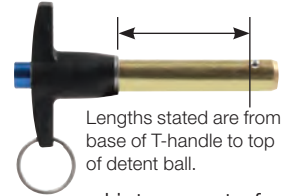


ALL17121

**ALL17120** ..... Quick Pin with Shoulder  
**ALL17121** ..... Quick Pin without Shoulder

## Quick-Release T-Handle Pins

Positive lock quick-release pins hold tightly in place until the handle button is depressed, allowing the pin to be inserted or removed into or out of a hole with ease. Handles are made from die cast 380 aluminum, shanks are made from 4130 steel. Each pin is equipped with a stainless steel split ring to allow the attachment of a cable assembly.



Lengths stated are from base of T-handle to top of detent ball.

- ALL60300** ... 1/4" x 1"
- ALL60301** ... 1/4" x 1-1/2"
- ALL60302** ... 1/4" x 2"
- ALL60304** ... 5/16" x 1"
- ALL60306** ... 5/16" x 2"
- ALL60308** ... 5/16" x 3"
- ALL60310** ... 3/8" x 1"
- ALL60312** ... 3/8" x 2"
- ALL60314** ... 3/8" x 3"
- ALL60318** ... 1/2" x 2"
- ALL60320** ... 1/2" x 2-1/2"
- ALL60322** ... 1/2" x 3"
- ALL60324** ... 1/2" x 3-1/2"

## Quick Pin Lock Collar

Steel lock collar provides a positive lock for quick release pins. Black coated collar with button head machine screw allows attachment of a securing device, like an Allstar lanyard (ALL18461 or ALL18463).



ALL60335

**ALL60335** .... 1/2" Collar with 10-32 Screw  
**ALL60336** .... 5/8" Collar with 1/4"-28 Screw



## Steel Balls

Hardened chrome-plated steel balls replace damaged or missing detent or check balls for many different applications. Good item to keep on hand when rebuilding transmissions. Package of 5.

- ALL26960** ... 1/4"
- ALL26961** ... 5/16"
- ALL26962** ... 3/8"
- ALL26963** ... 1/2"





## Steel Hood Pin Kits with 1/2" Pins

Kits include two each: 4" long x 1/2" dia. chrome steel pins, chrome steel scuff plates, clips, and four steel jam nuts.

**ALL18512** ..... Kit with 3/16" Flip-Over Clips

**ALL18514** ..... Kit with 5/32" Hairpin Clips

**ALL18513** ..... Kit with 1/4" Flip-Over Clips

ALL18514



## Aluminum Hood Pin Kits with 1/2" Pins

Kits include two each: 4" x 1/2" dia. aluminum pins, aluminum scuff plates, flip over style, 1/4" dia. steel clips, and four steel jam nuts. Clip flips over pin and over-center action locks clip in place.



**Kits with 3/16" Flip-Over Clips** **NEW**

Color	Complete Kit	Pins Only, 1-Pair
Silver	<b>ALL18496</b>	<b>ALL18498</b>
Black	<b>ALL18497</b>	<b>ALL18499</b>

**Kits with 1/4" Flip-Over Clips**

Color	Complete Kit	Pins Only, 1-Pair
Silver	<b>ALL18500</b>	<b>ALL18507</b>
Red	<b>ALL18501</b>	<b>ALL18508</b>
Blue	<b>ALL18502</b>	<b>ALL18509</b>
Gold	<b>ALL18503</b>	<b>ALL18510</b>
Black	<b>ALL18504</b>	<b>ALL18511</b>

## Aluminum Hood Pin Kits with 3/8" Pins

Kits include two each: 3-1/2" x 3/8" dia. aluminum pins, aluminum scuff plates, 3/16" dia. steel flip over clips and four steel jam nuts. Clip flip over pin and over-center action locks clip in place.



Color	Complete Kit	Pins Only, 1-Pair
Silver	<b>ALL18480</b>	<b>ALL18487</b>
Red	<b>ALL18481</b>	<b>ALL18488</b>
Blue	<b>ALL18482</b>	<b>ALL18489</b>
Black	<b>ALL18484</b>	<b>ALL18491</b>

## Lightweight Aluminum Hood Pin Kits

Kits include two each: 2-3/4" long gun-drilled aluminum pins, lightweight aluminum scuff plates, 3/16" steel flip over clips and four steel jam nuts. Clip flip over pin and over-center action locks clip in place.



Color	Kit with 3/8" Pins	Kit with 1/2" Pins
Silver	<b>ALL18472</b>	<b>ALL18476</b>
Black	<b>ALL18473</b>	<b>ALL18477</b>

## Hood Pin Supports

Supports thread onto hood pins (before installation) and are a good alternative to sections of rubber hose commonly used to support hoods and deck lids. Once supports are in place, a set screw prevents movement. Supports work with Allstar Performance aluminum hood pins and other fully threaded hood pins. Package of 2.



**ALL18478** ..... 3/8"-24

**ALL18479** ..... 1/2"-20

## Hood Pin Extensions

Aluminum extensions fit into existing chassis mounts. 1/2"-20 male to 1/2"-20 female, with 13/16" thread depth. Sold each.



**ALL18524** ..... 1-3/4" Tall

**ALL18525** ..... 2-3/4" Tall

## Hood Pin Adapters

Aluminum adapters convert existing chassis mounts over to hood pin mounts. Sold each.

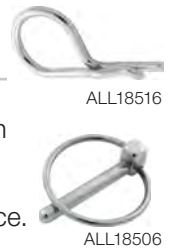


**ALL18526** ..... Converts 1/2" Fine Hood Pin Mount to 3/8" Hood Pin, 1/2"-20 Male to 3/8"-24 Female

**ALL18527** ..... Converts 1/2" Coarse Mount to 1/2" Hood Pin, 1/2"-13 Male to 1/2"-20 Female

## Hood Pin Clips

The same quick removal pins and clips included with Allstar's hood pin kits. Hairpin clip has a rotated loop for easy grasp and the flip-over clips have a loop with an over-center locking feature that keeps pin in place. Package of 2.



ALL18516

ALL18506

**ALL18516** ..... Hairpin Clip, 5/32"

**ALL18515** ..... Flip-Over Clip, 3/16"

**ALL18506** ..... Flip-Over Clip, 1/4"

## Flip-Over Clip with Lanyard

Our most popular size flip-over clip commonly used with hood pins is now available with an added lanyard which fastens to body panel for easy installation and prevents lost clips. Sold each.

**ALL18460** ..... Clip with 6" Lanyard

**ALL18462** ..... Clip with 10" Lanyard



## Ludwig Clamps ALL18232

Clamps are used to secure access panels, deck lids and a variety of other items in place. Zinc plated carbon steel clamps have a 3/16" mounting hole allowing clamp to be bolted or riveted in place. Package of 4.



## Steel Lanyards



Steel lanyards feature 1/16" diameter cable with 3/4" loops on each end for light duty applications such as hood pins or retention of similar type fasteners to prevent loss. Sold each.

**ALL18461** ..... 6" Long

**ALL18463** ..... 10" Long

## Nylon Lanyards **ALL18468**



Nylon lanyards feature a molded end with a 3/16" hole on one end and a snap together open loop on the other end to quickly and easily secure a variety of components. Once snapped together, loop is permanently locked. 10" long, package of 4.

## Hair Pins

Steel hair pins are zinc coated and rely on spring tension to hold in place. Length listed is overall length.



Length	Wire Dia.	2-pk	10-pk
1-5/8"	.093"	<b>ALL18442</b>	<b>ALL18442-10</b>
2-1/2"	.093"	<b>ALL18444</b>	<b>ALL18444-10</b>

## Diaper Pins

Steel diaper pins are zinc coated and have a locking feature to keep secured in place. Length listed is overall length.



Length	Wire Dia.	2-pk	10-pk
1-3/4"	.060"	<b>ALL18446</b>	<b>ALL18446-10</b>
2-1/2"	.093"	<b>ALL18448</b>	<b>ALL18448-10</b>

## Lock Pins

Use lock pin in place of a bolt for items that need to be removed frequently or easily. Wire loop folds over pin to lock in place. Size noted is under head length to end of pin. Sold each.



**ALL18452** ..... 1/4" x 2"

**ALL18454** ..... 5/16" x 2-3/4"

## Universal Line Clamps

Two-piece aluminum clamps dress up wiring or hard lines.

Package of 4.

**ALL18320** ..... 3/16"

**ALL18321** ..... 1/4"

**ALL18322** ..... 5/16"

**ALL18323** ..... 3/8"



## Line Clamps

### Aluminum clamps

have a protective neoprene cushion to prevent abrasion and a 1/4" mounting hole to secure electrical wiring, hoses or cables to a panel or frame.



**Black nylon clamps** have a 3/16" mounting hole to secure electrical wiring, hoses or cables to a panel or frame.

Clamp Size	Aluminum		Nylon	
	10-Pack	50-Pack	10-Pack	50-Pack
1/8"	-	-	<b>ALL18309</b>	<b>ALL18309-50</b>
3/16"	<b>ALL18300</b>	<b>ALL18300-50</b>	<b>ALL18310</b>	<b>ALL18310-50</b>
1/4"	<b>ALL18301</b>	<b>ALL18301-50</b>	<b>ALL18311</b>	<b>ALL18311-50</b>
3/8"	<b>ALL18302</b>	<b>ALL18302-50</b>	<b>ALL18312</b>	<b>ALL18312-50</b>
1/2"	<b>ALL18303</b>	<b>ALL18303-50</b>	<b>ALL18313</b>	<b>ALL18313-50</b>
5/8"	<b>ALL18304</b>	<b>ALL18304-50</b>	<b>ALL18314</b>	<b>ALL18314-50</b>
3/4"	<b>ALL18305</b>	<b>ALL18305-50</b>	<b>ALL18315</b>	<b>ALL18315-50</b>
7/8"	<b>ALL18306</b>	<b>ALL18306-50</b>	-	-
1"	<b>ALL18307</b>	<b>ALL18307-50</b>	<b>ALL18317</b>	<b>ALL18317-50</b>
1-1/4"	<b>ALL18308</b>	<b>ALL18308-50</b>	-	-

## Hose Clamps

Heavy duty all stainless steel construction clamps are easily tightened with a deep slot hex head screw. Superior to standard hardware store clamps.



Part No.	Min O.D.	Max O.D.
<b>2-Pack</b>		
<b>ALL18330</b>	1/4"	5/8"
<b>ALL18332</b>	1/2"	1-1/8"
<b>ALL18334</b>	1"	2"
<b>ALL18336</b>	1-5/16"	2-1/4"
<b>ALL18338</b>	1-9/16"	2-1/2"
<b>ALL18340</b>	1-5/8"	3-1/2"
<b>ALL18342</b>	2-5/8"	4-1/2"
<b>10-Pack</b>		
<b>ALL18330-10</b>	1/4"	5/8"
<b>ALL18332-10</b>	1/2"	1-1/8"
<b>ALL18334-10</b>	1"	2"
<b>ALL18336-10</b>	1-5/16"	2-1/4"
<b>ALL18338-10</b>	1-9/16"	2-1/2"

## T-Bolt Band Clamps

Stainless steel constructed band clamps provide a better sealing option over traditional hose clamps in performance applications. Clamps feature a 3/4" wide band and are sold in pairs.



Part No.	Min O.D.	Max O.D.
<b>ALL18344</b>	1-1/2"	1-3/4"
<b>ALL18345</b>	1-3/4"	2"
<b>ALL18347</b>	2"	2-3/8"
<b>ALL18349</b>	2-1/4"	2-5/8"
<b>ALL18350</b>	2-3/8"	2-3/4"
<b>ALL18351</b>	2-3/4"	3-1/4"
<b>ALL18352</b>	3"	3-3/8"
<b>ALL18353</b>	3-1/4"	3-5/8"
<b>ALL18354</b>	3-3/4"	4-1/4"
<b>ALL18355</b>	4-1/4"	4-5/8"



## Aluminum Reusable Hose Ends

Part No.	AN Size
<b>Straight</b>	
ALL49312	-6
ALL49313	-8
ALL49314	-10
ALL49315	-12
ALL49316	-16
<b>30° Elbow</b>	
ALL49322	-6
ALL49323	-8
ALL49324	-10
ALL49325	-12
ALL49326	-16
<b>45° Elbow</b>	
ALL49332	-6
ALL49333	-8
ALL49334	-10
ALL49335	-12
ALL49336	-16
<b>60° Elbow</b>	
ALL49342	-6
ALL49343	-8
ALL49344	-10
ALL49345	-12
ALL49346	-16
<b>90° Elbow</b>	
ALL49352	-6
ALL49353	-8
ALL49354	-10
ALL49355	-12
ALL49356	-16
<b>120° Elbow</b>	
ALL49362	-6
ALL49363	-8
ALL49364	-10
ALL49365	-12
<b>150° Elbow</b>	
ALL49372	-6
ALL49373	-8
ALL49374	-10
ALL49375	-12
<b>180° Elbow</b>	
ALL49382	-6
ALL49383	-8
ALL49384	-10
ALL49385	-12
ALL49386	-16



## Aluminum Pushlock Hose Ends

Part No.	AN Size
<b>Straight</b>	
ALL49411	-4
ALL49412	-6
ALL49413	-8
ALL49414	-10
ALL49415	-12
ALL49416	-16
<b>30° Elbow</b>	
ALL49422	-6
ALL49423	-8
ALL49424	-10
ALL49425	-12
ALL49426	-16
<b>45° Elbow</b>	
ALL49431	-4
ALL49432	-6
ALL49433	-8
ALL49434	-10
ALL49435	-12
ALL49436	-16
<b>60° Elbow</b>	
ALL49442	-6
ALL49443	-8
ALL49444	-10
ALL49445	-12
ALL49446	-16
<b>90° Elbow</b>	
ALL49451	-4
ALL49452	-6
ALL49453	-8
ALL49454	-10
ALL49455	-12
ALL49456	-16
<b>120° Elbow</b>	
ALL49462	-6
ALL49463	-8
ALL49464	-10
ALL49465	-12
ALL49466	-16
<b>150° Elbow</b>	
ALL49472	-6
ALL49473	-8
ALL49474	-10
ALL49475	-12
ALL49476	-16
<b>180° Elbow</b>	
ALL49482	-6
ALL49483	-8
ALL49484	-10
ALL49485	-12
ALL49486	-16





## Aluminum AN to NPT Adapters



AN Size	NPT	Straight	45°	90°
-3	1/8"	ALL49502	ALL49532	ALL49562
-4	1/8"	ALL49505	ALL49535	ALL49565
-4	1/4"	ALL49506	ALL49536	ALL49566
-4	3/8"	ALL49507	ALL49537	ALL49567
-6	1/8"	ALL49508	ALL49538	ALL49568
-6	1/4"	ALL49509	ALL49539	ALL49569
-6	3/8"	ALL49510	ALL49540	ALL49570
-6	1/2"	ALL49511	ALL49541	ALL49571
-8	1/4"	ALL49512	ALL49542	ALL49572
-8	3/8"	ALL49513	ALL49543	ALL49573
-8	1/2"	ALL49514	ALL49544	ALL49574
-10	3/8"	ALL49517	ALL49547	ALL49577
-10	1/2"	ALL49518	ALL49548	ALL49578
-10	3/4"	ALL49519	ALL49549	ALL49579
-12	1/2"	ALL49520	ALL49550	ALL49580
-12	3/4"	ALL49521	ALL49551	ALL49581

## Aluminum 90° Swivel to Male NPT

Part No.	NPT	AN Size
ALL49584	1/8"	-4
ALL49585	1/4"	-4
ALL49587	1/8"	-6
ALL49588	1/4"	-6
ALL49589	3/8"	-6
ALL49590	1/2"	-6
ALL49591	1/4"	-8
ALL49592	3/8"	-8
ALL49596	3/8"	-10
ALL49599	1/2"	-12



## Aluminum AN Bulkhead Adapters

Part No.	A Size	B Size
<b>Straight Bulkhead</b>		
ALL49610	-3	-3
ALL49611	-4	-4
ALL49612	-6	-6
ALL49613	-8	-8
ALL49614	-10	-10
ALL49615	-12	-12
ALL49616	-16	-16
<b>90° Bulkhead</b>		
ALL49620	-3	-3
ALL49621	-4	-4
ALL49622	-6	-6
ALL49623	-8	-8
ALL49624	-10	-10
ALL49625	-12	-12
ALL49626	-16	-16



## Aluminum AN Bulkhead Nuts

**ALL49600** .....-3, 2 Pk.    **ALL49604**.....-10, Each  
**ALL49601** .....-4, 2 Pk.    **ALL49605** .....-12, Each  
**ALL49602** .....-6, Each    **ALL49606** .....-16, Each  
**ALL49603** .....-8, Each

## Aluminum AN Flare Adapters

Part No.	A Size	B Size
<b>Female Swivel Union</b>		
ALL49700	-3	-3
ALL49701	-4	-4
ALL49702	-6	-6
ALL49703	-6	-8
ALL49704	-8	-8
ALL49705	-8	-10
ALL49706	-10	-10
<b>Male Union</b>		
ALL49710	-3	-3
ALL49711	-4	-4
ALL49712	-6	-6
ALL49713	-8	-8
ALL49714	-10	-10
ALL49715	-12	-12
ALL49716	-16	-16
<b>90° Union</b>		
ALL49720	-3	-3
ALL49721	-4	-4
ALL49722	-6	-6
ALL49723	-8	-8
ALL49724	-10	-10
ALL49725	-12	-12
<b>Male Reducer</b>		
ALL49730	-3	-4
ALL49731	-4	-6
ALL49732	-4	-8
ALL49733	-4	-10
ALL49734	-6	-8
ALL49735	-6	-10
ALL49736	-8	-10
ALL49737	-8	-12
ALL49738	-10	-12
ALL49739	-12	-16
<b>Swivel Reducer</b>		
ALL49740	-4	-3
ALL49741	-6	-4
ALL49742	-8	-4
ALL49743	-8	-6
ALL49744	-10	-6
ALL49745	-10	-8
ALL49746	-12	-8
ALL49747	-12	-10
ALL49748	-16	-10
ALL49749	-16	-12
<b>Swivel Flare Expander</b>		
ALL49750	-3	-4
ALL49751	-4	-6
ALL49752	-6	-8
ALL49753	-8	-10
ALL49754	-10	-12
ALL49755	-12	-16
ALL49756	-16	-20



## Reducer Fittings

Reducer fittings are an economical way to reduce the male AN thread size on items such as oil coolers and inline temperature tees.

**ALL90075** .... -10AN to -8AN  
**ALL90076** .... -12AN to -10AN



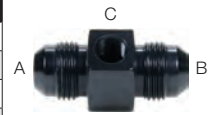
### Aluminum AN Flare Tee

Part No.	A Size	B Size	C Size
<b>Tee</b>			
ALL49640	-3	-3	-3
ALL49641	-4	-4	-4
ALL49642	-6	-6	-6
ALL49643	-8	-8	-8
ALL49644	-10	-10	-10
ALL49645	-12	-12	-12
ALL49646	-16	-16	-16
<b>Tee, Female Swivel On Side</b>			
ALL49650	-3	-3	-3
ALL49651	-4	-4	-4
ALL49652	-6	-6	-6
ALL49653	-8	-8	-8



### Pressure Gauge Adapters

Part No.	A Size	B Size	C Size
ALL49760	-4	-4	1/8"
ALL49761	-6	-6	1/8"
ALL49762	-6 Fem.	-6	1/8"
ALL49763	3/8" Male	-6	1/8"
ALL49765	-8	-8	1/8"



### Aluminum Gauge Fittings

ALL50201 .... 1/8"NPT Female to -3AN  
 ALL50202 .... 1/8"NPT Female to -4AN



### Aluminum AN Bulkhead Tee

Part No.	A Size	B Size	C Size
<b>Tee On-The-Side</b>			
ALL49630	-3	-3	-3
ALL49631	-4	-4	-4
ALL49632	-6	-6	-6
ALL49633	-8	-8	-8
ALL49634	-10	-10	-10



### Steel Gauge Fittings

ALL50199 .... 1/8"NPT Female to -3AN  
 ALL50200 .... 1/8"NPT Female to -4AN



### Aluminum Flare Cap

Part No.	AN Size
ALL49670	-3
ALL49671	-4
ALL49672	-6
ALL49673	-8
ALL49674	-10
ALL49675	-12
ALL49676	-16



### NPT Adapters

Part No.	A Size	B Size
<b>Aluminum NPT Reducer</b>		
ALL49770	1/4"	1/8"
ALL49771	3/8"	1/8"
ALL49772	3/8"	1/4"
ALL49773	1/2"	1/8"
ALL49774	1/2"	1/4"
ALL49775	1/2"	3/8"
ALL49776	3/4"	1/4"
ALL49777	3/4"	3/8"
ALL49778	3/4"	1/2"



### Aluminum Flare Plug

Part No.	AN Size
ALL49680	-3
ALL49681	-4
ALL49682	-6
ALL49683	-8
ALL49684	-10
ALL49685	-12
ALL49686	-16



Part No.	NPT Size	Qty.
<b>Aluminum Male NPT Nipple</b>		
ALL49780	1/8"	1
ALL49781	1/4"	1
<b>Aluminum Female NPT Coupler</b>		
ALL49785	1/8"	1
<b>Aluminum Internal Allen NPT Plug</b>		
ALL49800	1/16"	2
ALL49801	1/8"	2
ALL49802	1/4"	2
ALL49803	3/8"	2
ALL49804	1/2"	1
ALL49805	3/4"	1
<b>Steel Internal Allen NPT Plug*</b>		
ALL49811	1/8"	2
ALL49812	1/4"	2
ALL49813	3/8"	2
ALL49814	1/2"	1
<b>Aluminum Hex NPT Plug</b>		
ALL49820	1/8"	1
ALL49821	3/8"	1
ALL49822	1/2"	1



### Aluminum Tube Nut, 2-Pack

Part No.	AN Size
ALL50320	-3
ALL50321	-4
ALL50322	-6
ALL50323	-8
ALL50324	-10



### Aluminum Tube Sleeve, 2-Pack

Part No.	AN Size
ALL50330	-3
ALL50331	-4
ALL50332	-6
ALL50333	-8
ALL50334	-10



\*Larger quantities available

## AN Flare to ORB Adapters

Part No.	A Size	B Size
<b>Aluminum O-Ring Boss</b>		
<b>ALL49830</b>	3/8"-24 (-3)	-4
<b>ALL49831</b>	7/16"-20 (-4)	-4
<b>ALL49832</b>	9/16"-18 (-6)	-4
<b>ALL49833</b>	3/4"-16 (-8)	-4
<b>ALL49834</b>	7/8"-14 (-10)	-4
<b>ALL49836</b>	9/16"-18 (-6)	-6
<b>ALL49837</b>	3/4"-16 (-8)	-6
<b>ALL49838</b>	7/8"-14 (-10)	-6
<b>ALL49839</b>	1-1/16"-12 (-12)	-6
<b>ALL49841</b>	9/16"-18 (-6)	-8
<b>ALL49842</b>	3/4"-16 (-8)	-8
<b>ALL49843</b>	7/8"-14 (-10)	-8
<b>ALL49844</b>	1-1/16"-12 (-12)	-8
<b>ALL49845</b>	1-5/16"-12 (-16)	-8
<b>ALL49847</b>	3/4"-16 (-8)	-10
<b>ALL49848</b>	7/8"-14 (-10)	-10
<b>ALL49849</b>	1-1/16"-12 (-12)	-10
<b>ALL49850</b>	1-5/16"-12 (-16)	-10
<b>ALL49852</b>	3/4"-16 (-8)	-12
<b>ALL49853</b>	7/8"-14 (-10)	-12
<b>ALL49854</b>	1-1/16"-12 (-12)	-12
<b>ALL49855</b>	1-5/16"-12 (-16)	-12
<b>ALL49857</b>	1-1/16"-12 (-12)	-16
<b>ALL49858</b>	1-5/16"-12 (-16)	-16
<b>ALL49859</b>	1-5/16"-12 (-16)	-20



## Large Fill Plug Kits

Kits include a weld-in bung and an easy-grip O-ring cap with positive seal. Kits are often used as an inspection plug or a filler plug. Large fill plugs have a 3" opening, 3"-12 thread.



ALL36173



ALL36174

### Kit with Aluminum Weld-In Bung

- ALL36170** ..... Silver Kit
- ALL36171** ..... Black Kit
- ALL36172** ..... Red Kit
- ALL36173** ..... Polished Kit

### Kit with Steel Weld-In Bung

- ALL36174** ..... Silver Kit
- ALL36175** ..... Black Kit
- ALL36176** ..... Red Kit
- ALL36177** ..... Polished Kit

## Small Fill Plug Kits

Kits include a weld-in or bolt-in bung and an easy-grip O-ring cap with positive seal. Kits are often used as an inspection plug or a filler plug. Small fill plugs have a 1-3/8" opening with 1-1/2"-12 threads.

### Kit with Aluminum Weld-In Bung

- ALL36160** .... Silver Kit
- ALL36164** .... Black Kit
- ALL36165** .... Red Kit
- ALL36166** .... Polished Kit



ALL36160

### Kit with Steel Weld-In Bung

- ALL36161** ..... Silver Kit
- ALL36167** ..... Black Kit
- ALL36168** .... Red Kit
- ALL36169** .... Polished Kit



ALL36167

### Kit with Aluminum Bolt-In Bung

- ALL36180** .... Silver Kit
- ALL36181** ..... Black Kit
- ALL36182** ..... Red Kit
- ALL36183** .... Polished Kit



ALL36182

## Weld Bungs

Weld-on bungs are available in 6061 aluminum or mild steel and allow additional fittings to be added to radiators, oil pans, or for building custom tanks or other components.

### Female NPT

Size	O.D.	Aluminum	Steel
1/8"-27NPT	3/4"	<b>ALL50740</b>	<b>ALL50750</b>
1/4"-18NPT	7/8"	<b>ALL50741</b>	<b>ALL50751</b>
3/8"-18NPT	1"	<b>ALL50742</b>	<b>ALL50752</b>
1/2"-14NPT	1-1/4"	<b>ALL50743</b>	<b>ALL50753</b>
3/4"-14NPT	1-3/8"	<b>ALL50744</b>	<b>ALL50754</b>
1"-11-1/2NPT	1-5/8"	<b>ALL50745</b>	-



### Male AN

Size	Thread	Flange	
		O.D.	
4AN	7/16"-20	3/4"	<b>ALL50760</b> <b>ALL50770</b>
6AN	9/16"-18	7/8"	<b>ALL50761</b> <b>ALL50771</b>
8AN	3/4"-16	1"	<b>ALL50762</b> <b>ALL50772</b>
10AN	7/8"-14	1-1/8"	<b>ALL50763</b> <b>ALL50773</b>
12AN	1-1/16"-12	1-3/8"	<b>ALL50764</b> <b>ALL50774</b>
16AN	1-5/16"-12	1-5/8"	<b>ALL50765</b> <b>ALL50775</b>
20AN	1-5/8"-12	1-3/4"	<b>ALL50766</b> <b>ALL50776</b>



### Female AN ORB

Size	Thread	O.D.	Aluminum
4AN	7/16"-20	3/4"	<b>ALL50780</b>
6AN	9/16"-18	7/8"	<b>ALL50781</b>
8AN	3/4"-16	1"	<b>ALL50782</b>
10AN	7/8"-14	1-1/8"	<b>ALL50783</b>
12AN	1-1/16"-12	1-3/8"	<b>ALL50784</b>
16AN	1-5/16"-12	1-5/8"	<b>ALL50785</b>



## Drain Plug Kits

Drain plug kits include a machined weld-on bung that has a step added to fit inside a drilled hole for easy installation. Kits are perfect when adding drain plugs to oil pans, rear end housings, dry sump tanks, etc.



Size	Aluminum Bung	Steel Bung
3/8"NPT	<b>ALL50732</b>	<b>ALL50733</b>
1/2"NPT	<b>ALL50734</b>	<b>ALL50735</b>



**⚠ WARNING PROP. 65** (See Below)

### NPT to AN Fittings

1/8"-27NPT steel fittings are commonly used when connecting braided lines to brake calipers, engine oiling systems, etc.



ALL50000  
ALL50001



ALL50010  
ALL50011



ALL50018  
ALL50019



ALL50040



ALL50029  
ALL50030  
ALL50036



ALL50032



ALL50035



ALL50021



ALL50020



ALL50199  
ALL50200

- ALL50000** .... 1/8"NPT Male to -3AN Straight, 2-Pack
- ALL50001** .... 1/8"NPT Male to -4AN Straight, 2-Pack
- ALL50004** .... 1/8"NPT Male to -4AN Straight, Tall
- ALL50010** .... 1/8"NPT Male to -3AN 45°
- ALL50011** .... 1/8"NPT Male to -4AN 45°
- ALL50018** .... 1/8"NPT Male to -3AN 90°
- ALL50019** .... 1/8"NPT Male to -4AN 90°
- ALL50020** .... 1/8"NPT Male to -3AN 90° Tall
- ALL50021** .... 1/8"NPT Male to -4AN 90° Tall
- ALL50199** .... 1/8"NPT Female to -3AN
- ALL50200** .... 1/8"NPT Female to -4AN

### NPT Fittings

Popular brass 1/8"-27NPT fittings used for a variety of applications.



ALL50182



ALL50184



ALL50185



ALL50138

- ALL50182** .... 1/8"NPT Plug, 4-Pack
- ALL50184** .... 1/8"NPT Male Union, 4-Pack
- ALL50185** .... 1/8"NPT Female Union, 4-Pack
- ALL50138** .... 1/8"NPT Tee, 2-Pack
- ALL50139** .... 1/8"NPT Tee, 2-Pack



ALL50139

### Petcock ALL99030

Replacement petcock for Allstar breather and overflow tanks is also perfect for draining coolant from engines. 1/4"NPT threads.



### WARNING: PROP. 65

The products on this page can expose you to lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Caliper Fittings

Commonly used in stock type calipers in place of the banjo fitting and bolt. Fittings allow direct connection to a steel braided line. Fittings are sold in a pack of 2.

- ALL50029** .... 3/8"-24 to -3AN Straight
- ALL50030** .... 3/8"-24 to -4AN Straight
- ALL50032** .... 7/16"-20 to -4AN Straight
- ALL50035** .... 7/16"-20 to -4AN 90°
- ALL50037** .... M10-1.50 to -3AN Straight
- ALL50036** .... M10-1.50 to -4AN Straight
- ALL50040** .... M10-1.50 to Female 1/8"-27NPT

### Banjo Fittings

Banjo fittings are commonly used with banjo bolts and crush washers in stock type calipers to allow direct connection of a steel braided line and allow pivoting the line as needed. Fittings are sold in a pack of 2.

- ALL50060** .... 3/8" to -3AN
- ALL50061** .... 3/8" to -4AN
- ALL50062** .... 7/16" to -3AN
- ALL50063** .... 7/16" to -4AN
- ALL50067** .... 10mm to -3AN
- ALL50068** .... 10mm to -4AN
- ALL50066** .... 10mm to -4AN Extended



ALL50063



ALL50066

### Banjo Bolts

Banjo bolts are a drilled bolt to allow fluid to pass through and are commonly used with banjo fittings and crush washers in stock type calipers to allow direct connection of a steel braided line. Bolts are sold in a pack of 2.

- ALL50070** .... 3/8"-24
- ALL50072** .... 7/16"-20
- ALL50076** .... M10-1.25
- ALL50077** .... M10-1.50



### Crush Washers

Crush washers are used when sealing metal to metal contact points of banjo fittings and bolts. Soft material conforms to the irregularities of the sealing surfaces. Washers are sold in a pack of 10.

- ALL50082** .... 3/8" and 10mm
- ALL50080** .... 7/16"



FITTINGS AND HOSES

### Bleeder Fitting with Screw **ALL50180**

Designed for popular aftermarket calipers, these fittings have 1/8"-27 threads and include a 1/4"-28 bleeder screw. Package of 4.



### Bleeder Caps **ALL50855**

Rubber caps keep dirt and moisture out of brake caliper bleeder screw fittings. Caps fit ALL50180 and most other popular small bleeder screws. Package of 10.



### Inverted Flare Fittings

An inverted flare fitting is a common brake fitting designed to withstand the high pressures found in braking systems.



ALL50120  
ALL50121



ALL50125



ALL50127



ALL50183



ALL50135



ALL50136  
ALL50137



ALL50130  
ALL50131  
ALL50132  
ALL50133

**ALL50120** .... 3/16" to Male 1/8"-27 NPT, 4-Pack

**ALL50125**..... 3/16" to Male 1/8"-27 NPT 90 Degree, 4-Pack

**ALL50127**..... 3/16" to Female 1/8"-27 NPT, 4-Pack

**ALL50136** .... 3/16" Tee, 2-Pack

**ALL50137**..... 3/16" Tee with 1/8"-27 NPT Female Port on Side

**ALL50135** .... 3/16" Tee with 1/8"-27 NPT Male Nipple on Side

**ALL50183** .... 3/16" Steel Plug, 4-Pack

**ALL50121**..... 1/4" to Male 1/8"-27 NPT, 4-Pack

**ALL50129** .... 5/16" to Male 1/4"-18 NPT 2-Pack

**ALL50130** .... 3/16" Union, 4-Pack

**ALL50131**..... 1/4" Union, 4-Pack

**ALL50132**..... 5/16" Union, 4-Pack

**ALL50133** .... 3/8" Union, 4-Pack

### Master Cylinder Adapter Fittings

#### **ALL41012**

Fittings adapt master cylinders or combination valves with 1/2"-20 and 9/16"-18 ports to accept 3/16" inverted flare brake line with standard 3/8"-24 fittings. Kit includes one of each fitting.



#### **WARNING: PROP. 65**

The products on this page can expose you to lead, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Bolt-In Adapter Fittings

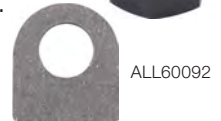
Bulkhead style aluminum fittings adapt 3/16" inverted flare line to an AN type fitting. The 9/16" threaded body with attaching nut can be mounted through a C-channel style frame or a chassis tab.



**ALL50104** .... 3/16" to 3AN

**ALL50105** .... 3/16" to 4AN

**ALL60092** .... Weld-On Tabs, 4-Pack



ALL60092

### Clip-In Adapter Fittings

Steel adapter fittings provide a bulkhead style connection to AN lines that can be mounted directly to the chassis by using tabs or brackets and retainer clips. Fittings fit in a 5/8" hole and are sold in a pack of 2.



**ALL50100** .... 3/16" Inverted Flare to -3AN

**ALL50101**..... 3/16" Inverted Flare to -4AN

**ALL50102** .... 1/8"-27NPT to -3AN

**ALL50103** .... 1/8"-27NPT to -4AN

**ALL60029** .... Bolt-on Tabs 2-Pack

**ALL60030** .... Weld-on Tabs 4-Pack

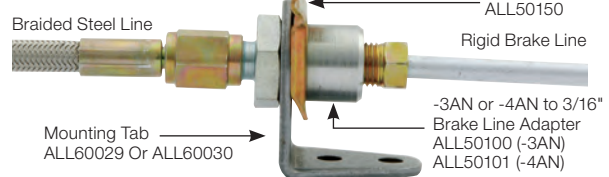
**ALL50150** .... Retainer Clip 4-Pack



ALL60029 ALL60030

### TECH TIP

#### Installation Reference



### D.O.T. Legal Brake Hose Kits

Kit includes everything necessary to complete the connection between 3/16" steel brake line and the brake caliper for one axle. Kit includes two brake line adapter fittings, steel weld on tabs, retainer clips, banjo bolts, crush washers, and 16" DOT-approved #3 braided steel hoses.



**ALL42032** .... GM Metric Kit with M10-1.50 Banjo Bolts

**ALL42033** .... Big GM Kit with 7/16"-20 Banjo Bolts

### Brake Hose Kits

Kit includes everything necessary to complete the connection between 3/16" steel brake line and the brake caliper for one axle. Kit includes two brake line adapter fittings, steel weld on tabs, retainer clips, banjo caliper fittings, banjo bolts, crush washers, and 15" #3 braided steel hoses.



**ALL42025** .... GM Metric Kit with M10-1.50 Banjo Bolts

**ALL42027** .... Big GM Kit with 7/16"-20 Banjo Bolts



## Braided Steel Lines

A wide selection of braided steel lines in various lengths. All lines come with one straight end and your choice of straight, 45°, or 90° on the other end. The inner PTFE hose is compatible with all brake fluids. The braided stainless steel outer covering resists abrasion and corrosion. Ideal for use where bending and flexing occurs. More durable than rubber hose. Lengths stated are overall end-to-end, including fittings.

Note: Lines are also available in 5-pack and 25-pack quantities. Add a (-5) or (-25) to end of part number. Example ALL46400-6-25 for a 25-pack. Lengths stated are overall end-to-end, including fittings. Lines are NOT DOT approved.



### #3 Braided Steel Lines with -3 Ends

Length	Two -3 Straight	-3 Straight and -3 45°	-3 Straight and -3 90° Forged	-3 Straight and -3 90° Tube
6"	ALL46300-6	—	ALL46302-6	ALL46304-6
9"	ALL46300-9	—	ALL46302-9	ALL46304-9
10"	ALL46300-10	—	ALL46302-10	ALL46304-10
12"	ALL46300-12	—	ALL46302-12	ALL46304-12
14"	ALL46300-14	ALL46301-14	ALL46302-14	ALL46304-14
15"	ALL46300-15	ALL46301-15	ALL46302-15	ALL46304-15
16"	ALL46300-16	ALL46301-16	ALL46302-16	ALL46304-16
18"	ALL46300-18	ALL46301-18	ALL46302-18	ALL46304-18
20"	ALL46300-20	—	ALL46302-20	ALL46304-20
21"	ALL46300-21	—	ALL46302-21	ALL46304-21
22"	ALL46300-22	—	ALL46302-22	ALL46304-22
24"	ALL46300-24	ALL46301-24	ALL46302-24	ALL46304-24
26"	ALL46300-26	—	ALL46302-26	ALL46304-26
28"	ALL46300-28	—	ALL46302-28	ALL46304-28
30"	ALL46300-30	—	ALL46302-30	ALL46304-30
32"	ALL46300-32	—	ALL46302-32	ALL46304-32
34"	ALL46300-34	ALL46301-34	—	—
36"	ALL46300-36	—	ALL46302-36	ALL46304-36
40"	ALL46300-40	—	—	—
42"	ALL46300-42	—	ALL46302-42	ALL46304-42
43"	ALL46300-43	—	—	—
44"	ALL46300-44	—	—	—
47"	ALL46300-47	—	—	—
48"	ALL46300-48	—	ALL46302-48	ALL46304-48
50"	ALL46300-50	—	—	—
56"	ALL46300-56	—	—	—
60"	ALL46300-60	—	ALL46302-60	ALL46304-60
96"	ALL46300-96	—	—	—
108"	ALL46300-108	—	—	—
120"	ALL46300-120	—	—	—
180"	ALL46300-180	—	—	—



Straight End



45° Tube End

### #4 Braided Steel Lines with -4 Ends

Length	Two -4 Straight	-4 Straight and -4 45°	-4 Straight and -4 90° Forged	-4 Straight and -4 90° Tube
6"	ALL46400-6	—	ALL46402-6	ALL46404-6
9"	ALL46400-9	—	ALL46402-9	ALL46404-9
10"	ALL46400-10	—	ALL46402-10	ALL46404-10
12"	ALL46400-12	—	ALL46402-12	ALL46404-12
14"	ALL46400-14	—	ALL46402-14	ALL46404-14
15"	ALL46400-15	ALL46401-15	ALL46402-15	ALL46404-15
16"	ALL46400-16	—	ALL46402-16	ALL46404-16
18"	ALL46400-18	ALL46401-18	ALL46402-18	ALL46404-18
20"	ALL46400-20	—	ALL46402-20	ALL46404-20
21"	ALL46400-21	—	ALL46402-21	ALL46404-21
22"	ALL46400-22	—	ALL46402-22	ALL46404-22
24"	ALL46400-24	ALL46401-24	ALL46402-24	ALL46404-24
26"	ALL46400-26	—	ALL46402-26	ALL46404-26
28"	ALL46400-28	—	ALL46402-28	ALL46404-28
30"	ALL46400-30	—	ALL46402-30	ALL46404-30
32"	ALL46400-32	—	ALL46402-32	ALL46404-32
36"	ALL46400-36	—	ALL46402-36	ALL46404-36
42"	ALL46400-42	—	ALL46402-42	ALL46404-42
48"	ALL46400-48	—	ALL46402-48	ALL46404-48
60"	ALL46400-60	—	ALL46402-60	ALL46404-60
90"	ALL46400-90	—	—	—
120"	ALL46400-120	—	ALL46402-120	ALL46404-120
180"	ALL46400-180	—	—	—



90° Forged End



90° Tube End





### Coated Braided Steel Lines with Steel Ends

Black coated braided steel lines with steel ends. Choose #3 or #4 line in straight/straight or straight/ 90° con gurations. Lengths stated are overall, end-to-end.

Length	#3 Line		#4 Line	
	Two -3 Straight	-3 90° and -3 Straight	Two -4 Straight	-4 90° and -4 Straight
12"	ALL48430-12	ALL48434-12	ALL48440-12	ALL48444-12
15"	ALL48430-15	ALL48434-15	ALL48440-15	ALL48444-15
18"	ALL48430-18	ALL48434-18	ALL48440-18	ALL48444-18
21"	ALL48430-21	ALL48434-21	ALL48440-21	ALL48444-21
24"	ALL48430-24	ALL48434-24	ALL48440-24	ALL48444-24
30"	ALL48430-30	ALL48434-30	ALL48440-30	ALL48444-30
32"	ALL48430-32	ALL48434-32	ALL48440-32	ALL48444-32
36"	ALL48430-36	ALL48434-36	ALL48440-36	ALL48444-36
40"	ALL48430-40	ALL48434-40	ALL48440-40	ALL48444-40
48"	ALL48430-48	ALL48434-48	ALL48440-48	ALL48444-48



### Coated Braided Lines with 1/8" NPT and Straight Steel Ends **NEW**

Black coated braided steel lines with steel ends. Choose #3 or #4 line in straight / 1/8" NPT end con guration. Lengths stated are overall, end-to-end.

Length	#3 Line -3 Straight	#4 Line -4 Straight
18"	ALL48435-18	ALL48445-18
21"	ALL48435-21	ALL48445-21
24"	ALL48435-24	ALL48445-24
28"	ALL48435-28	ALL48445-28
30"	ALL48435-30	ALL48445-30
36"	ALL48435-36	ALL48445-36
48"	ALL48435-48	ALL48445-48



### Coated Braided Steel Lines with Aluminum Ends

Black coated braided steel lines have black aluminum ends. Choose #2, #3, or #4 line in straight/ straight or straight/90° con gurations. Lengths stated are overall, end-to-end.

Length	#2 Line		#3 Line		#4 Line	
	Two -3 Straight	Two -3 Straight	-3 90° and -3 Straight	Two -4 Straight Ends	-4 90° and -4 Straight	Two -4 Straight
6"	ALL48385	ALL48387	ALL48413	ALL48349	ALL48398	ALL48398
9"	ALL48386	ALL48388	ALL48414	ALL48350	ALL48399	ALL48399
12"	ALL48371	ALL48361	ALL48415	ALL48351	ALL48400	ALL48400
15"	ALL48372	ALL48362	ALL48416	ALL48352	ALL48401	ALL48401
18"	ALL48373	ALL48363	ALL48417	ALL48353	ALL48402	ALL48402
21"	ALL48374	ALL48364	ALL48418	ALL48354	ALL48403	ALL48403
24"	ALL48375	ALL48365	ALL48419	ALL48355	ALL48404	ALL48404
30"	ALL48376	ALL48366	ALL48420	ALL48356	ALL48405	ALL48405
32"	—	ALL48367	—	—	—	—
36"	ALL48378	ALL48368	ALL48422	ALL48358	ALL48407	ALL48407
40"	ALL48384	ALL48389	ALL48426	ALL48390	ALL48427	ALL48427
46"	—	—	ALL48394	—	—	—
48"	ALL48379	ALL48369	ALL48423	ALL48359	ALL48408	ALL48408
52"	—	ALL48392	—	—	—	—
60"	ALL48380	ALL48370	ALL48424	ALL48360	ALL48409	ALL48409
62"	—	ALL48393	—	—	—	—
73"	ALL48383	ALL48382	ALL48425	ALL48381	ALL48410	ALL48410



### #6 Coated Braided Steel Lines with Aluminum Ends

Black coated braided steel lines have black aluminum ends. Lengths stated are overall, end-to-end.

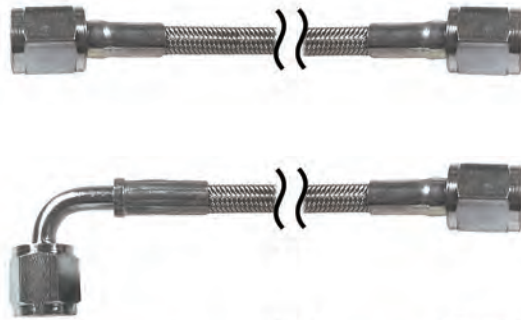
Length	-6 90° and -6 Straight	
	Two -6 Straight	Straight
12"	ALL48465-12	ALL48466-12
18"	ALL48465-18	ALL48466-18
24"	ALL48465-24	ALL48466-24
36"	ALL48465-36	ALL48466-36
48"	ALL48465-48	—
72"	ALL48465-72	—
120" (10 ft.)	ALL48465-120	—
168" (14 ft.)	ALL48465-168	—
192" (16 ft.)	ALL48465-192	—



FITTINGS AND HOSES

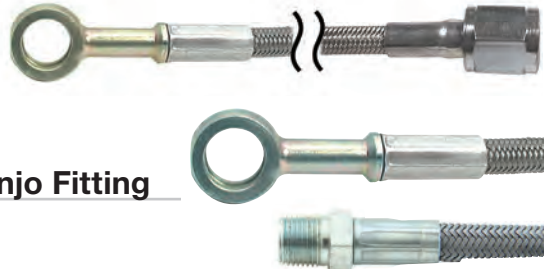
### #3 Braided Steel Lines with -4 Ends

Length	Two -4 Straight Ends	-4 90° and -4 Straight
9"	ALL46310-9	ALL46312-9
12"	ALL46310-12	ALL46312-12
15"	ALL46310-15	ALL46312-15
18"	ALL46310-18	ALL46312-18
21"	ALL46310-21	ALL46312-21
24"	ALL46310-24	ALL46312-24
28"	ALL46310-28	ALL46312-28
32"	ALL46310-32	ALL46312-32
36"	ALL46310-36	ALL46312-36
40"	-	ALL46312-40
42"	ALL46310-42	ALL46312-42
48"	ALL46310-48	ALL46312-48
60"	ALL46310-60	ALL46312-60
72"	ALL46310-72	-
108"	ALL46310-108	ALL46312-120
120"	ALL46310-120	-



### Braided Steel Lines with 10mm Banjo Fitting

Length	#3 Line		#4 Line
	-3 Straight	-4 Straight	-4 Straight
18"	ALL46340-18	-	ALL46440-18
21"	-	-	ALL46440-21
24"	-	ALL46341-24	ALL46440-24
44"	ALL46340-44	-	-



### #4 Braided Steel Line with 1/8"NPT and 10mm Banjo Fitting

Length	Part No.
24"	ALL46441-24



### #4 Braided Steel Lines with 1/8"NPT and Straight -4 Ends

Length	Part No.
18"	ALL46420-18
21"	ALL46420-21
24"	ALL46420-24
30"	ALL46420-30
36"	ALL46420-36
48"	ALL46420-48



### #3 Braided Steel Lines with 3/16" Inverted Flare 90° and Straight -3 Ends

Length	Part No.
24"	ALL46332-24
36"	ALL46332-36
48"	ALL46332-48



### Bulkhead Fittings

Black anodized aluminum bulkhead adapter fittings are perfect when plumbing needs to pass through a firewall, interior panel, or a mounting bracket.

- ALL50092 .... Straight -3AN to -3AN
- ALL50093 .... Straight -4AN to -4AN
- ALL50094 .... 90° -3AN to -3AN
- ALL50095 .... 90° -4AN to -4AN
- ALL50096 .... Tee (Run) -3AN (3x)
- ALL50097 .... Tee (Run) -4AN (3x)
- ALL50098 .... -3AN Nut, 2-Pack
- ALL50099 .... -4AN Nut, 2-Pack



ALL50092  
ALL50093

ALL50094  
ALL50095

ALL50096  
ALL50097

### 90° Swivel Fitting

Black anodized aluminum fitting swivels a full 360° for convenient hose connection. 1/8"NPT fitting is commonly used in after-market calipers, gauge panels, or anywhere a swivel connection would be useful.

- ALL50108 .... 1/8"NPT to -3AN
- ALL50109 .... 1/8"NPT to -4AN



### AN Union Fittings

Black anodized aluminum flare union adapter fittings are commonly used to connect two hoses with female AN ends.

- ALL50090 .... -3AN to -3AN
- ALL50091 .... -4AN to -4AN



### Bulkhead Mounting Tab ALL60093

One-piece steel mounting tab with 7/16" hole can be bolted to the chassis or rear end to hold bulkhead fittings in place. Bracket is 5/64" thick.



## Quick Disconnect Couplings

2-piece couplings allow lines to be separated without loss of fluid or requirement of bleeding. Commonly used on brake systems when changing front or rear axle assembly, hydraulic wing cylinders, a hydraulic clutch system using a hydraulic throw out bearing, or when servicing a transmission with an internal hydraulic clutch.



- ALL50212**..... Alum. Coupling with -3AN Male Threads
- ALL50213**..... Alum. Coupling with -4AN Male Threads
- ALL50215**..... Steel Coupling with 1/8"NPT Female Threads

## Clutch Line Kits

Designed to connect clutch master cylinder to hydraulic throw-out bearing or directly to transmissions with internal clutches. Pre-assembled braided steel hose assemblies have #3 lines and are fitted with one -3AN straight end and one 3/16" inverted flare 90° hard line end. Also includes one 1/8" male to -3AN fitting (ALL50000).



- ALL46100-24**..Kit with 24" Line
- ALL46100-36**..Kit with 36" Line
- ALL46100-48**..Kit with 48" Line

## Universal Clutch Line Kit

### ALL46101-36

Universal kit includes a variety of fittings to connect most master cylinders to a hydraulic slave cylinder, throw-out bearing or to an internal clutch transmission. Kit includes an 8" long 3/16" hard line, a straight and 90° male 1/8" NPT to 3/16" inverted flare fittings, a straight female 1/8" NPT to 3/16" inverted flare fitting, two straight male 1/8" NPT to -4 hose fittings, a 36" #4 braided steel hose with -4AN fittings, and line clamps for the steel and braided line.



## Hydraulic Throw-Out Bearing Remote Bleed Kit

### ALL46102

Bleed line kit connects to most popular hydraulic bearings to allow easier bleeding of system by placing the bleeder screw outside of the bellhousing. Kit includes a 10" long line with adapter fittings for bearings with -3AN, -4AN, or 1/8" NPT bleed ports.



## Dirt Race Car Brake Line Kit

Kit allows braided lines to be run throughout a dirt race car. Includes all lines needed to reach from the calipers to inside the foot box. Additional fittings may be required.



This kit uses #3 line size for stiffer pedal feel while utilizing the more popular -4AN ends.

- ALL42052** .... Kit for Dirt Models with OEM Calipers
- ALL42053** .... Kit for Dirt Models with Aftermarket Calipers
- ALL42054** .... Kit for Dirt Late Models with Aftermarket Calipers

## Rear End Brake Line Kit (Single Line Drop)

Kit is designed to eliminate "hanging" brake lines near the rear calipers. Rear brake line kits utilize a single line drop located near the left side of the center section. Kit includes braided lines (#3 line with -4AN ends), -4AN tee, 3" axle tube clamp bracket, and a tee bracket.



- ALL42056** ..... Kit for Dirt Models (60" Wide) with OEM Calipers
- ALL42057** ..... Kit for Dirt Models (60" Wide) with Aftermarket Calipers
- ALL42058** ..... Kit for Dirt Late Models (62" Wide) with Aftermarket Calipers

## Front End Brake Line Kit

Kits include braided lines to reach from the front calipers to inside the foot box. Braided lines are #3 size with -4AN ends. The #3 line size offers a stiffer pedal feel while utilizing the more popular -4AN ends.



- ALL42060** .... Kit for Dirt Models with OEM Calipers
- ALL42061** .... Kit for Dirt Models with Aftermarket Calipers
- ALL42062** .... Kit for Dirt Late Model with Aftermarket Calipers

Note: Visit our website for specific components used in these kits!

## Gauge Line Kits

Gauge line kits provide easy connection to most mechanical oil and fuel pressure gauges. Includes a pre-assembled length of #4 braided steel line with -4AN ends and male and female 1/8"NPT adapters to work with most applications.



- ALL46110-36** ..... Kit with 36" Line
- ALL46110-48** ..... Kit with 48" Line
- ALL46110-60** ..... Kit with 60" Line
- ALL46110-72** ..... Kit with 72" Line



## Steel Brake Line

Steel brake line is available in lengths from 8" to 72" for plumbing brake systems. Standard galvanized zinc coating.



Length	3/16" Line with 3/8"-24 Ends
8"	<b>ALL48048</b>
12"	<b>ALL48050</b>
20"	<b>ALL48052</b>
30"	<b>ALL48054</b>
40"	<b>ALL48056</b>
51"	<b>ALL48058</b>
60"	<b>ALL48060</b>
72"	<b>ALL48062</b>

## Stainless Steel Brake Line

304 Grade stainless steel line has been double annealed for easier bending and flaring. Pre-made lines exceed SAE and DOT requirements and include standard size stainless flare nuts for years of service and show quality finish.



Length	3/16" Line with 3/8"-24 Ends	1/4" Line with 7/16"-24 Ends
8"	<b>ALL48300</b>	<b>ALL48310</b>
12"	<b>ALL48301</b>	<b>ALL48311</b>
20"	<b>ALL48302</b>	<b>ALL48312</b>
30"	<b>ALL48303</b>	<b>ALL48313</b>
40"	<b>ALL48304</b>	<b>ALL48314</b>
51"	<b>ALL48305</b>	<b>ALL48315</b>
60"	<b>ALL48306</b>	<b>ALL48316</b>
72"	<b>ALL48307</b>	<b>ALL48317</b>

## Gravel Guard Brake Line Protector

Guard protects steel and plastic brake lines against possible damage caused by gravel, rocks and other road/track debris. Zinc coated steel material is placed over tubing or brake line before ends are installed. Sold in 8' long lengths.



**ALL48330** .... 3/16"  
**ALL48332** .... 1/4"

## Tubing Cutters

Cut plastic, aluminum, copper or steel tubing without distorting or crushing. Standard cutter works with tubing from 1/8" up to 1-1/8" and has wide rollers for even tracking of cutter wheel, built-in reamer for cleaning inside of tubing, and an extra cutting wheel. Mini cutter can cut tubing from 1/8" to 5/8" in tight areas.



ALL11010



ALL11011

**ALL11010** ..... Mini  
**ALL11011** ..... Standard

## Coiled Tubing

Coiled tubing works great for building 1 piece custom fuel lines without unions. Stainless steel tubing is 304 grade and double annealed for easy flaring and bending. Tubing does not include flare nuts (sold separately).



Part No.	Size	Material	Length
<b>ALL48040</b>	3/16"	Steel (Zinc Coated)	25'
<b>ALL48308</b>	3/16"	Stainless	20'
<b>ALL48326</b>	1/4"	Steel (Zinc Coated)	25'
<b>ALL48318</b>	1/4"	Stainless	20'
<b>ALL48327</b>	5/16"	Steel (Zinc Coated)	25'
<b>ALL48328</b>	3/8"	Steel (Zinc Coated)	25'
<b>ALL48322</b>	3/8"	Stainless	20'

## Inverted Flare Nuts

Flare nuts are used for building custom hard brake lines, transmission cooler lines, oil lines, and fuel lines. 3/16" and 1/4" nuts are available to fit most master cylinder and metering/proportioning valve applications. Select proper thread size for line used.



Part No.	Thread Size	Material	Qty.
<b>Flare Nuts for 3/16" Line</b>			
<b>ALL50110</b>	3/8"-24	Steel	10-Pack
<b>ALL50111</b>	3/8"-24	Stainless	10-Pack
<b>ALL50113</b>	7/16"-24	Steel	2-Pack
<b>ALL50114</b>	1/2"-20	Steel	2-Pack
<b>ALL50115</b>	9/16"-18	Steel	2-Pack
<b>Flare Nuts for 1/4" Line</b>			
<b>ALL50116</b>	7/16"-24	Steel	10-Pack
<b>ALL50117</b>	7/16"-24	Stainless	10-Pack
<b>ALL50118</b>	1/2"-20	Steel	2-Pack
<b>ALL50119</b>	9/16"-18	Steel	2-Pack
<b>Flare Nuts for 5/16" Line</b>			
<b>ALL50140</b>	1/2"-20	Steel	10-Pack
<b>Flare Nuts for 3/8" Line</b>			
<b>ALL50142</b>	5/8"-18	Steel	10-Pack
<b>ALL50143</b>	5/8"-18	Stainless	4-Pack

## Steel Tube Nut and Sleeve

Tube nuts and sleeves are used when making hard line connections to male AN fittings. Line requires a 37° flare for proper sealing. Package of 4.



ALL50300



ALL50310

**ALL50300** .... -3AN Tube Nut  
**ALL50310** ..... -3AN Tube Sleeve

## Aluminum Tube Nuts and Sleeves

Aluminum tube nuts and sleeves are used with corresponding hard lines to connect to male AN fittings. Line requires a 37° flare for proper sealing. Package of 2.



ALL50320



ALL50330

Size (Female)	For Tubing O.D.	Tube Nut	Tube Sleeve
-3	3/16"	<b>ALL50320</b>	<b>ALL50330</b>
-4	1/4"	<b>ALL50321</b>	<b>ALL50331</b>
-6	3/8"	<b>ALL50322</b>	<b>ALL50332</b>
-8	1/2"	<b>ALL50323</b>	<b>ALL50333</b>
-10	5/8"	<b>ALL50324</b>	<b>ALL50334</b>

## Double Flare Tool

### ALL11015

Double flares 3/16", 1/4", 5/16", 3/8" and 1/2" steel or aluminum and .040" copper tubing at 45°, the most common flare used in custom brake and fuel lines. Includes detailed instructions and a convenient plastic storage case.



## Nylon Brake Line Kit

### ALL48030

Quickly plumb any race car using an Allstar nylon brake line kit. Kit extends from the master cylinder to the caliper and includes 35' of 3/16" line, compression ends, unions, tees, and 1/8"NPT fittings. Race proven for years. Not for street use.



## Universal Line Clamps

Two-piece aluminum clamps dress up wiring or hard line. Package of 4.

- ALL18320 ..... 3/16"
- ALL18321 ..... 1/4"
- ALL18322 ..... 5/16"
- ALL18323 ..... 3/8"



## Deluxe Nylon Brake Line Kits

Deluxe kits feature push lock fittings to ease installation. Kits include 30' of 3/16" line and fittings. Not for street use.

- ALL48018 .... For Use without Brake Gauges
- ALL48019 .... For Use with Brake Gauges



## Aluminum Line Clamps

Aluminum clamps have a protective neoprene cushion to prevent abrasion and a 1/4" mounting hole to secure electrical wiring, hoses, or cables to a panel or frame.

Clamp Size	10-Pack	50-Pack
3/16"	ALL18300	ALL18300-50
1/4"	ALL18301	ALL18301-50
3/8"	ALL18302	ALL18302-50
1/2"	ALL18303	ALL18303-50
5/8"	ALL18304	ALL18304-50
3/4"	ALL18305	ALL18305-50
7/8"	ALL18306	ALL18306-50
1"	ALL18307	ALL18307-50
1-1/4"	ALL18308	ALL18308-50



## 3/16" Nylon Brake Line

- ALL48026 .... 10'
- ALL48027 .... 50'
- ALL48028 .... 100'



## 3/16" Nylon Brake Line Compression Fittings



- ALL48032 .... 1/8"-27NPT Male to 3/16" Straight
- ALL48033 .... 1/8"-27NPT Male to 3/16" 90°
- ALL48034 .... 3/16" Union
- ALL48035 .... 3/16" Tee, All Compression
- ALL48036 .... 3/16" Captured End Caps, 10-Pack

## Nylon Line Clamps

Black nylon clamps have a 3/16" mounting hole to secure electrical wiring, hoses, or cables to a panel or frame.

Clamp Size	10-Pack	50-Pack
1/8"	ALL18309	ALL18309-50
3/16"	ALL18310	ALL18310-50
1/4"	ALL18311	ALL18311-50
3/8"	ALL18312	ALL18312-50
1/2"	ALL18313	ALL18313-50
5/8"	ALL18314	ALL18314-50
3/4"	ALL18315	ALL18315-50
1"	ALL18317	ALL18317-50



## 3/16" Nylon Brake Line Push-Lock Fittings



- ALL48020 .... 1/8"-27NPT Male to 3/16"
- ALL48021 .... 1/8"-27NPT Female to 3/16"
- ALL48022 .... 3/16" Tee, All Push-Lock
- ALL48023 .... 3/16" Tee, Two Push-Lock and One 1/8"-27NPT Male



## Fuel Logs

Fuel logs efficiently provide fuel to most 4150 series Holley style carburetors with 7/8"-20 inlet threads and standard metering blocks. Choose log with a -8AN male inlet fitting or -8 barbed inlet fitting for use with push lock hose. Logs have 1/2"NPT and 1/8"NPT plugs which can be removed when installing a return line or fuel pressure gauge.



ALL26153

- ALL26152** .... Fuel Log with -8AN Barbed Inlet Fitting
- ALL26153** .... Fuel Log with -8AN Male Inlet Fitting

## Fuel Line Kits

Dual-feed fuel line kits include the correct fittings and hoses to properly plumb single carburetor applications when connecting to AN style fitting. Line kits also include a capped -4AN fitting which can be easily connected to a fuel pressure gauge. Kits are offered with -6AN or -8AN lines and fittings.



ALL26156

ALL26166

Application	C to C	Carb Thread	Red/Blue	Black
-6 Holley (4150 Series)	9-5/16"	7/8"-20	<b>ALL26154</b>	<b>ALL26164</b>
-8 Holley (4150 Series)	9-5/16"	7/8"-20	<b>ALL26156</b>	<b>ALL26166</b>
-8 Holley (4150 Series)*	9-5/8"	7/8"-20	<b>ALL26159</b>	<b>ALL26169</b>
-8 Holley Ultra HP (4150 Series)	9-5/8"	3/4"-16	-	<b>ALL26165</b>
-8 Holley Dominator (4500 Series)	11-5/8"	7/8"-20	<b>ALL26158</b>	<b>ALL26168</b>
-8 BG Demon	9-5/8"	9/16"-24	<b>ALL26157</b>	<b>ALL26167</b>

\*Designed for carburetors with custom metering block including Willy's and KB.

## Aluminum Carb Fittings

Convert Holley carburetors with 7/8"-20 threads, Holley Ultra HP with 3/4"-16 ORB threads or BG/Demon style with 9/16"-24 threads to an AN style connection. Anodized aluminum fittings simplify plumbing fuel systems and building custom fuel lines. Fittings sold each.



ALL50890  
ALL50892

ALL50900

ALL50902

ALL50901

ALL50896

ALL50904

ALL50906

ALL50905

Fittings With:	Blue	Black
Female -6AN End Holley (7/8"-20)	<b>ALL50890</b>	<b>ALL50892</b>
Male -6AN End Holley (7/8"-20) Short	<b>ALL50894</b>	<b>ALL50896</b>
Female -8AN End Holley (7/8"-20)	<b>ALL50900</b>	<b>ALL50902</b>
Female -8AN End Holley HP (3/4"-16 ORB)	-	<b>ALL50907</b>
Female -8AN End BG/Demon (9/16"-24)	<b>ALL50901</b>	-
Male -8AN End Holley (7/8"-20) Short	<b>ALL50904</b>	<b>ALL50906</b>
Male -8AN End Holley (7/8"-20)	<b>ALL50905</b>	-

## Replacement Component

- ALL50910** .... Sealing Washer for 7/8" Fittings, 10-Pack

## Vacuum Line

Premium vacuum line resists kinking and is pliable for easy routing. Often used when connecting sensors, vacuum advance units, windshield washers, or replacing existing cracked, leaking vacuum lines. Size indicated is I.D. of hose.



- ALL40340** .... 5/32", 5' Long
- ALL40341** .... 5/32", 50' Long
- ALL40342** .... 7/32", 5' Long
- ALL40343** .... 7/32", 50' Long

## Fuel Line

Premium fuel line is reinforced to help prevent kinking and is rated up to 50 PSI for use with carbureted applications. Fuel line has many other uses, including connecting PCV valves, coolant overflow tanks, and vent lines for transmissions and differentials. Line is compatible with gasoline, E-85, diesel, and biodiesel. Size indicated is I.D. of hose.



- ALL40350** .... 1/4", 3' Long
- ALL40351** .... 1/4", 25' Long
- ALL40353** .... 5/16", 3' Long
- ALL40354** .... 5/16", 25' Long
- ALL40356** .... 3/8", 3' Long
- ALL40357** .... 3/8", 25' Long

## Aluminum Fuel Line

Allstar aluminum fuel line is seamless and available in three diameters. 25' coil.



- ALL40180** .... 3/8" Dia.
- ALL40185** .... 1/2" Dia.
- ALL40186** .... 5/8" Dia.



## Fuel Cell Hose

Clear vent and filler hose is ideal for Circle Track cars. Sold in pre-cut lengths.

Vent Hose	3'	5'	10'	20'
1" I.D.	<b>ALL40160-3</b>	<b>ALL40160-5</b>	<b>ALL40160-10</b>	<b>ALL40160-20</b>
1-1/4" I.D.	<b>ALL40161-3</b>	<b>ALL40161-5</b>	<b>ALL40161-10</b>	<b>ALL40161-20</b>
1-1/2" I.D.	<b>ALL40162-3</b>	<b>ALL40162-5</b>	<b>ALL40162-10</b>	<b>ALL40162-20</b>

Filler Hose	3'	5'	10'	20'
2-1/4" I.D.	<b>ALL40168-3</b>	<b>ALL40168-5</b>	<b>ALL40168-10</b>	<b>ALL40168-20</b>
2-1/2" I.D.	<b>ALL40170-3</b>	<b>ALL40170-5</b>	<b>ALL40170-10</b>	<b>ALL40170-20</b>

## GM T.P.I.

### Fuel Injection Fittings

Special tube O-ring fittings convert GM Tuned Port Injection fuel systems to -6AN fittings.



- ALL50950** .... TPI Return Fitting, M14-1.50
- ALL50951** .... TPI Inlet Fitting, M16-1.50



## Power Steering Hose Kits

Kits include hose and fittings to properly install a remote reservoir style power steering pump to most cars. Steering box fittings are sold separately.



ALL48200

**Front Mount Kits** - O.E. Style location with pump mounted to front of engine.

**ALL48204** .... Kit for Stock Type Gear Box (Modified, Street Stock)

**ALL48200** .... Kit for Rack and Pinion Steering

**Rear Mount Kits** - Pump mounted to bellhousing mounted dry sump pumps, fuel pumps, etc.

**ALL48201** .... Kit for Rack and Pinion

**ALL48205** .... Kit for Steering Box

## Power Steering Hose

The same quality hose included in our power steering hose kits, available in a variety of lengths for building custom power steering lines or making repairs. Hose is suitable for most steering applications.

### Pressure Hose

**ALL48270-3** ... -6, 3' Long

**ALL48270-6** ... -6, 6' Long

**ALL48270-10** ... -6, 10' Long

**ALL48270-15** ... -6, 15' Long

**ALL48270-20** ... -6, 20' Long



### Return Hose

**ALL48275-3** ... -10, 3' Long

**ALL48275-6** ... -10, 6' Long



## Power Steering Hose Ends

The same quality hose ends included in Allstar's power steering hose kits for building custom power steering lines or making repairs. Fittings are suitable for most steering applications.

### -6 Hose Ends (Steel)

**ALL48271** .... Straight

**ALL48272** .... 45°

**ALL48273** .... 90°

### -10 Hose Ends (Aluminum)

**ALL48276** .... Straight

**ALL48277** .... 45°

**ALL48278** .... 90°

**ALL48279** .... 120°



ALL48271



ALL48272



ALL48278

## Power Steering Box Fittings

Allstar fittings convert most power steering boxes and racks to -6AN fitting.



ALL48210

ALL48211

ALL48212

ALL48214

ALL48215

ALL48217

### O-Ring Style Fittings

**ALL48210\*** ... -6AN Male to M16-1.50 Fitting With O-Ring

**ALL48211** ..... -6AN Male to M14-1.50 Fitting With O-Ring

**ALL48212\*** ... -6AN Male to M18-1.50 Fitting With O-Ring

**ALL48214** ..... -6AN Male to 9/16"-18 Fitting With O-Ring

### Non O-Ring Style Fittings

**ALL48215** ..... -6AN Male to 5/8"-18 Fitting

**ALL48217** ..... -6AN Male to 11/16"-18 Fitting

\*These are the two most common fittings when O-rings are needed.

## Sprint Power Steering Lines

Assembled lines for power steering have -6AN ends and are compatible with high-pressure pumps found in today's sprint cars where standard hose and fittings cannot be used. Lines are lightweight yet strong, weighing less than a standard high-pressure hose assembly. Plumbing is perfect for connection of KSE steering gear to pump. 13-1/2" long.

**ALL48260** .... Line with Steel Ends and Protective Wrap

**ALL48261** .... Line with Aluminum Ends

## Power Steering Supply Line for KSE Gen2 Steering Gear

Gen2 supply line has -10AN aluminum fitting and built specifically for use with KSE Gen2 steering gear. New style hose is very flexible, and will not collapse under suction. Total overall length of hose including fittings is 9".

**ALL48262** .... Hose with 90° End

**ALL48263** .... Hose with 45° End



## Sprint Wing Line Kit

**ALL48006**

Kit includes lightweight, coated, braided stainless steel lines and aluminum fittings to help simplify plumbing of KSE Gen2 steering gear and wing cylinder. Kit includes

(2) #4 slider lines (22" long and 36" long), (2) #4 pressure and return lines (18" long), (4) 45° -4AN to 1/8"NPT valve fittings, (2) 90° -4AN to 1/8"NPT cylinder fittings, and (2) high-flow -3 ORB to -4AN fittings.





## Grommet Set ALL18360

Grommets are perfect for protecting wiring and hoses that pass through panels up to 1/16" (.062") thick. Kit includes 36 grommets (6 of each size: 1/4", 5/16", 3/8", 1/2", 5/8", and 11/16").

Grommets are also available in size specific 10-packs.



Part No.	Grommet Hole I.D.	Panel Hole I.D.
ALL18362	3/16"	5/16"
ALL18363	1/4"	3/8"
ALL18364	5/16"	7/16"
ALL18365	3/8"	1/2"
ALL18366	1/2"	5/8"
ALL18367	5/8"	7/8"
ALL18368	11/16"	1"

## Caps and Plugs

A must for keeping debris out of lines and hoses. Ideal for keeping internal components of dry sump pumps, fuel pumps, pressure regulators, etc. clean during storage. Caps and plugs fit 37° flared fittings and straight threaded ports. Available in plastic and aluminum.



Cap	Plug	AN Size	Thread Size	No. Per Pkg.
<b>Plastic Caps And Plugs</b>				
ALL50801	ALL50811	-3	3/8"-24	20
ALL50802	ALL50812	-4	7/16"-20	20
ALL50803	ALL50813	-6	9/16"-18	20
ALL50804	ALL50814	-8	3/4"-16	20
ALL50805	ALL50815	-10	7/8"-14	10
ALL50806	ALL50816	-12	1-1/16"-12	10
ALL50807	ALL50817	-16	1-5/16"-12	10
ALL50808	ALL50818	-20	1-5/8"-12	5
<b>Aluminum Caps and Plugs</b>				
ALL50821	ALL50831	-3	3/8"-24	20
ALL50822	ALL50832	-4	7/16"-20	20
ALL50823	ALL50833	-6	9/16"-18	20
ALL50824	ALL50834	-8	3/4"-16	20
ALL50825	ALL50835	-10	7/8"-14	10
ALL50826	ALL50836	-12	1-1/16"-12	10
ALL50827	ALL50837	-16	1-5/16"-12	10

## Cap and Plug Kits

Kits include five of each size, -3 to -16.



- ALL50800 .... Plastic Cap Kit
- ALL50810 .... Plastic Plug Kit
- ALL50820 .... Aluminum Cap Kit
- ALL50830 .... Aluminum Plug Kit

## Aluminum Oil Inlet Fittings

Aluminum fittings adapt NPT to AN threads that are commonly used when connecting oil lines, and other applications. Length stated is overall length. ALL90045 features two additional 1/8"NPT ports commonly used when plumbing valve spring oilers.



- ALL90048 .... 3/8"NPT to -10AN, 3" Long
- ALL90043 .... 1/2"NPT to -10AN, 3" Long
- ALL90044 .... 1/2"NPT to -12AN, 3" Long
- ALL90045 .... 1/2"NPT to -12AN, 3-1/2" Long (with 1/8"NPT Ports)

## Inline Oil Temperature Tees

Install in the oil return line (pump-to-tank) to adapt a probe for an oil temperature gauge. All inline tees have 1/2"NPT threads for probe fittings and 1/4" holes for mounting.



- ALL90039 .... -8AN
- ALL90040 .... -10AN
- ALL90041 .... -12AN
- ALL90042 .... -16AN

## Oil Filter Adapters

Oil filter adapters are OE style replacement mounts for securing oil filter to engine block or oil pan when rebuilding or replacing an engine.



ALL92000

- ALL92000 .... **1968-96 SB Chevy Including LT1 and 1968-90 Gen IV BB Chevy Engines** Aluminum adapter with bypass valve bolts to block and has 13/16"-16 threads to accept oil filter.
- ALL92001 .... Bolt kit for ALL92000
- ALL92004 .... **Gen V and VI 1991-Up BB Chevy Engines** Adapter threads into block with 1"-12 threads and has 13/16"-16 threads to accept oil filter.
- ALL92005 .... **2006-2019 LS Series Engines** Hex body adapter threads into oil pan with 20mm x 1.50 thread and has 22mm x 1.50 thread to accept oil filter (PH10575).
- ALL92006 .... **1998-2009 LS Series Engines** Round body with internal hex adapter threads into oil pan with 20mm x 1.50 thread and has 13/16"-16 threads to accept oil filter (PH3506).
- ALL92003 .... **Most SB Ford 302-351W Engines** Adapter threads into block with 1-1/16"-12 threads and has 3/4"-16 threads to accept oil filter.



ALL92004



ALL92005



ALL92006

## Chevy Billet Oil Filter Adapter

### ALL92020

Billet aluminum adapter replaces the stock cast aluminum adapter and eliminates the bypass found in OE adapters. Adapter fits most 1968-96 SB Chevy and 1968-90 Gen IV BB Chevy engines, has 13/16"-16 threads for spin-on style oil filters and includes mounting hardware.



## Overflow Nozzles

Aluminum nozzle acts as a signal to the driver indicating a possible overheating condition as the cooling system pushes out water. Nozzle with threaded body mounts in a body panel outside the driver's compartment and is available with a 1/4" barb or a -4AN male fitting.



- ALL30178**..... Nozzle with 1/4" Barb Fitting
- ALL30179**..... Nozzle with -4AN Male Fitting

## Temperature Gauge Probe Adapters

Aluminum adapters are a nice upgrade from brass adapters and feature a longer length for use in shallow applications when the mechanical temperature gauge probe may contact the inside of a cylinder head or intake manifold. Extra length of fitting will still allow end of probe to protrude into the coolant for accurate readings.



- ALL50203** .... 3/8"NPT
- ALL50204** .... 1/2"NPT

## Radiator Overflow Fitting **ALL99312**

Commonly used fitting threads into the filler neck of most radiators, allowing connection to an overflow tank. Aluminum fitting has 1/8"NPT threads and accepts a 5/16" hose.



## Petcock **ALL99030**

Replacement petcock for Allstar breather and overflow tanks is also perfect for draining coolant from engines. 1/4"NPT threads.



Tyler Roahrig



Tyler Roahrig

## Radiator Hoses

Two-ply coolant hose is flexible and adapts to a variety of applications. Abrasion resistant cover will not crack or harden.



### 1-1/2" Dia. Upper Hose

- ALL30200** ... 12"
- ALL30202** ... 14"
- ALL30204** ... 15-1/2"
- ALL30206** ... 17"
- ALL30208** ... 20"
- ALL30210** ... 22"
- ALL30212** ... 25"
- ALL30214** ... 30"

### 1-3/4" Dia. Lower Hose

- ALL30220** ... 11"
  - ALL30222** ... 13-1/2"
  - ALL30224** ... 16-1/2"
  - ALL30226** ... 19"
  - ALL30228** ... 23-1/2"
- Hose Clamps (2-Packs):**
- ALL18334** .... Clamps, Upper Hose
  - ALL18336** .... Clamps, Lower Hose

## Hose Clamps

Heavy-duty all stainless steel clamps are easily tightened with a deep-slot hex-head screw. Superior to standard hardware store clamps. For best connection, select the clamp which fits within the range of hose O.D.



Part No.	Min Hose O.D.	Max Hose O.D.
<b>2-Pack</b>		
<b>ALL18330</b>	1/4"	5/8"
<b>ALL18332</b>	1/2"	1-1/8"
<b>ALL18334</b>	1"	2"
<b>ALL18336</b>	1-5/16"	2-1/4"
<b>ALL18338</b>	1-9/16"	2-1/2"
<b>ALL18340</b>	1-5/8"	3-1/2"
<b>ALL18342</b>	2-5/8"	4-1/2"
<b>10-Pack</b>		
<b>ALL18330-10</b>	1/4"	5/8"
<b>ALL18332-10</b>	1/2"	1-1/8"
<b>ALL18334-10</b>	1"	2"
<b>ALL18336-10</b>	1-5/16"	2-1/4"
<b>ALL18338-10</b>	1-9/16"	2-1/2"

## Power Grip Clamps

Gates Power Grip Clamps seal when heated with a standard heat gun, forming a tight band around standard rubber and silicone coolant hoses to provide a secure connection, even under harsh race conditions. Installed clamps provide a smooth, flush fit around hoses and eliminate exposed sharp edges associated with standard hose clamps. Select the band clamp which fits within range of hose O.D. for best connection. Sold each.



Part No.	Min Hose O.D.	Max Hose O.D.
<b>ALL30250</b>	1/2"	11/16"
<b>ALL30251</b>	11/16"	13/16"
<b>ALL30252</b>	13/16"	15/16"
<b>ALL30253</b>	15/16"	1-1/16"
<b>ALL30254</b>	1-1/16"	1-3/16"
<b>ALL30255</b>	1-3/16"	1-1/2"
<b>ALL30256</b>	1-1/2"	1-3/4"
<b>ALL30257</b>	1-3/4"	2"
<b>ALL30258</b>	2"	2-1/4"

Note: Clamps are not designed for use with flammable liquids or fuel line connections.





## Performance SBC Fuel Pumps with AN Fittings

Lightweight die-cast three valve pump is great for use with Sportsman type engines up to 700HP and 8,000 RPM. Pump features AN style inlet and outlet fittings for easy plumbing. Lower section is clockable every 30° to fit most applications. Pump is rated at 45 GPH @ 7-8.5 PSI and does not require an external fuel pressure regulator.

**ALL40266** .... -8AN Inlet / -8AN Outlet  
**ALL40267** .... -10AN Inlet / -8AN Outlet

### Replacement Component

**ALL50915** .... -8AN Fitting  
**ALL50916** .... -10AN Fitting

## Performance Fuel Pumps

Die-cast aluminum pumps for performance SBC engines feature heat-treated levers, anti-flo t springs and clockable inlet and outlet for easy installation and plumbing. Great for performance applications. Designed to be used without fuel pressure regulators but are recommended.

**ALL40256** .... 1/4" NPT Ports 7-8.5psi 120gph  
**ALL40257** .... 3/8" NPT Ports 6.5-8 psi 110gph  
**ALL40258** .... 3/8" NPT Ports 7.5-9psi 130gph

## Sportsman 2-Valve Fuel Pumps

Pumps with aluminum housings have 1/4"NPT inlet/outlet fittings, heavy-duty diaphragms, anti- oat springs, and "clockable" lower base for rotation of inlet and outlet. Pumps deliver 6-1/2 to 8 PSI with 80 GPH free ow.

**ALL40260** .... SB Chevy  
**ALL40261** .... BB Chevy  
**ALL40262** .... SB Ford

## Compact Electric Fuel Pump

**ALL40320**

High- ow, low-pressure electric fuel pump equipped with a 5/16" inlet/outlet. The pump owes 18 gph at 4.0 PSI, 5.5 PSI maximum. Includes a rubber padded mounting bracket and two heavy duty hose clamps. Rated 12V/5 amps. Overall length is 5-1/2" x 1-1/2" wide.

## Bracket for Compact Electric Fuel Pump **ALL40322**

Bracket mounts our popular electric fuel pump ALL40320 with 1-1/2" O.D. to 1-1/8" chassis tubing, commonly used on mini-sprint cars.



## Fuel Pressure Regulator **ALL40290**

Regulator is commonly placed between the fuel pump and carburetor to regulate fuel pressure when using mechanical or electric fuel pump, this is often referred to as a "Dead Head" style regulator as it does not require a return line back to fuel tank. The two-piece aluminum body uses a single 3/8"NPT inlet port on the bottom, two 3/8"NPT side outlet ports and a 1/8" NPT port for mounting a fuel pressure gauge or sender line. Regulator is gasoline, ethanol, and E85 compatible for 4.5 to 14 PSI systems and includes a steel mounting bracket. Not methanol compatible.

### Replacement Component

**ALL99430** .... Rebuild Kit

## Aeromotive Fuel Pressure Regulator Bracket for Dirt Late Models

**ALL54298**

Speci cally designed for use with Aeromotive double adjustable fuel pressure regulator #AFS13214 commonly used on dirt late models. Mount is typically bolted to the front deck bracing behind the engine.

## Fuel Pressure Regulator Brackets

Billet aluminum brackets will mount four different style regulators. Hardware included. Silver in color.

Regulator	4150 Carb	4500 Carb
Aeromotive	<b>ALL54280</b>	<b>ALL54282</b>
Holley	<b>ALL54284</b>	<b>ALL54286</b>
Magnafuel	<b>ALL54288</b>	<b>ALL54290</b>
Mallory	<b>ALL54292</b>	-



## SB Chevy Fuel Pump Mount Plate **ALL40254**

O.E. style plate replaces lost or missing mounting plate required to mount mechanical style fuel pump to most small block Chevrolet engines. Clear zinc-plated nish may also be painted to match original appearance. Mounting hardware included.



## SB Chevy Fuel Pump Block-Off Plate

**ALL40255**

Plate covers mechanical fuel pump engine opening on most small block Chevrolet when omitting a mechanical style fuel pump. Plate is often used when converting to electric or belt driven fuel pumps. Clear zinc-plated nish may also be painted.



## Billet Fuel Pump Block-Off Plates

CNC-machined billet aluminum plates cover the mechanical pump opening in the engine block and include a gasket and stainless steel fasteners.

Description	Blue	Clear	Red	Black
SB Chevy	<b>ALL40300</b>	<b>ALL40301</b>	<b>ALL40302</b>	<b>ALL40306</b>
BB Chevy, SB/BB Ford†, SB/BB Chrysler	<b>ALL40303</b>	<b>ALL40304</b>	<b>ALL40305</b>	<b>ALL40307</b>



†Will not fit Ford 351C, 351M-400.



## Inline Aluminum Fuel Filters

Black anodized, high-flow inline filters are available with no element or with a stainless or paper element. Filter elements are 8" long and fit in a 9" housing. Overall length is 12" and outside diameter is 2". Filter flows enough fuel for any race car. Filters including stainless element have a 63 micron filter and are compatible with E-85 and methanol fuels.



Fitting Size	With Paper Element	With Stainless Element	Without Element
-6AN Ends	<b>ALL40238</b>	<b>ALL40239*</b>	<b>ALL40243</b>
-8AN Ends	<b>ALL40216</b>	<b>ALL40218*</b>	<b>ALL40244</b>
-10AN Ends	<b>ALL40217</b>	<b>ALL40219*</b>	<b>ALL40245</b>
-12AN Ends	<b>ALL40240</b>	<b>ALL40242*</b>	<b>ALL40246</b>

## Inline Aluminum Fuel Filters with Shut-off Valve



Our popular inline filter assembly combined with our shut-off valve in one package. The shut-off valve is assembled on the inlet side of the filter assembly which allows shutting the fuel off to the filter and the remaining portion of the fuel system for maintenance and safety during transportation. **Filter assembly is sold without element.**

- ALL40196** .... -6AN Ends
- ALL40197** ..... -8AN Ends
- ALL40198** .... -10AN Ends
- ALL40199** .... -12AN Ends

## Fuel Filter Elements

Fuel filter elements are 8" long and are direct replacements for our in-line fuel filters.

- ALL40220** .... Paper (10 Micron)
- ALL40222** .... Stainless Steel (63 Micron)
- ALL40221** .... Stainless Steel (100 Micron)



Carson Ferguson

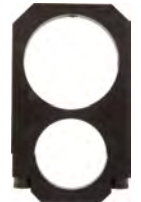
## Fuel Filter Brackets

Brackets mount Allstar inline aluminum fuel filters to round or square tubing and flat surfaces. Flush mount bracket fastens to flat panels like a frame rail or firewall. A locking set screw holds filter in place. Brackets for round and square tubing clamp with caps secured by Allen head screws. Sold each.

Part No.	Tubing Size	Tubing Shape
<b>ALL40229</b>	1-1/4"	Round
<b>ALL40227</b>	1-3/8"	Round
<b>ALL40228</b>	1-1/2"	Round
<b>ALL40230</b>	1-3/4"	Round
<b>ALL40232</b>	2" x 2"	Square
<b>ALL40235</b>	Flush Mount	-



ALL40235



ALL40228

## 2-Piece Fuel Filter Brackets

Brackets are a two-piece design that clamps our 2" O.D. in-line style fuel filter directly to the chassis tubing. Bracket secures filter to the tubing but does not fit completely around chassis tubing for applications when decking or sheet metal is mounted directly against the tubing. Sold each.



- ALL40190** .... 1-1/8"
- ALL40191** ..... 1-1/4"
- ALL40192** ..... 1-1/2"
- ALL40193** ..... 1-3/4"

## Fuel Line Check Valve

**ALL40208**



Valve is placed in-line near the fuel cell to prevent fuel from free-flowing in the event of an accident that damages the fuel pump or fuel line. The suction action of the fuel pump overrides the internal spring which opens the valve allowing fuel to flow without restriction. Valve accepts -10 ORB style fittings.

## Fuel Filter Shut-Off Valve

**ALL40210**



Valve installs on the inlet end of our inline aluminum fuel filters allowing fuel to be shut-off for maintenance or safety reasons. Ball style shut-off features a lever with a 1/4"-20 threaded hole for mounting a ball stud or securing a rod end for use with remote shut off.

## Hi-Flow Chrome Fuel Filter

**ALL40250**

Canister-type filter has 3/8"NPT inlet and outlet, a replaceable 10 micron element, and 90 GPH flow.

### Replacement Component

**ALL40251** .... Filter Element and Seals







## Adjustable Fuel Logs

Adjustable fuel logs feature over 4" of adjustment to work with a variety of dual inlet carburetors. Black anodized aluminum log has a -8AN x 3/4"-16 ORB fuel inlet and a 3/8" NPT plug in rear port that can be removed to install a return line or fuel pressure regulator.



ALL26150

- ALL26150** .... Fuel Log with 7/8"-20 Fitting (Standard Holley)
- ALL26151** ..... Fuel Log with 3/4"-16 ORB Fitting (Holley Ultra HP)

## Fuel Logs

Fuel logs efficiently provide fuel to most 4150 series Holley style carburetors with 7/8"-20 inlet threads and standard metering blocks. Choose log with a -8AN male inlet fitting or -8 barbed inlet fitting for use with push lock hose. Logs have 1/2"NPT and 1/8"NPT plugs that can be removed to install a return line or fuel pressure gauge.



ALL26153

- ALL26152**..... Fuel Log with -8 Barbed Inlet Fitting
- ALL26153** .... Fuel Log with -8AN Male Inlet Fitting

## Shockproof Pressure Gauges

1-1/2" diameter gauges are constructed using reliable brass internal parts and have a 1/8"NPT male fitting on the backside of the gauge. Dry gauges feature a chrome-plated steel housing, while glycerin-filled gauges feature a stainless steel housing helping to dampen the effect of pulsation and pressure spikes of the gauge needle.



ALL80200



ALL80216

Description	Glycerine Filled	Dry Type
0-15 PSI	<b>ALL80200</b>	<b>ALL80210</b>
0-30 PSI	<b>ALL80202</b>	—
0-60 PSI	<b>ALL80204</b>	<b>ALL80214</b>
0-100 PSI	<b>ALL80206</b>	<b>ALL80216</b>
0-1,500 PSI	<b>ALL80208</b> (NOS)	<b>ALL80218</b>

## Aluminum Carb Fittings

Convert Holley carburetors with 7/8"-20 threads, Holley Ultra HP with 3/4"-16 ORB threads or BG/Demon style with 9/16"-24 threads to an AN style connection. Anodized aluminum fittings simplify plumbing fuel systems and building custom fuel lines. Fittings sold each.



ALL50890  
ALL50892

ALL50900

ALL50902

ALL50901

ALL50896

ALL50904

ALL50906

ALL50905

Fittings with:	Blue	Black
Female -6AN End Holley (7/8"-20)	<b>ALL50890</b>	<b>ALL50892</b>
Male -6AN End Holley (7/8"-20) Short	<b>ALL50894</b>	<b>ALL50896</b>
Female -8AN End Holley (7/8"-20)	<b>ALL50900</b>	<b>ALL50902</b>
Female -8AN End Holley HP (3/4"-16 ORB)	—	<b>ALL50907</b>
Female -8AN End BG/Demon (9/16"-24)	<b>ALL50901</b>	—
Male -8AN End Holley (7/8"-20) Short	<b>ALL50904</b>	<b>ALL50906</b>
Male -8AN End Holley (7/8"-20)	<b>ALL50905</b>	—

## Replacement Component

**ALL50910** .... Sealing Washer for 7/8" Fittings, 10-Pack



## Fuel Line Kits

Dual feed fuel line kits include the correct fittings and hoses to properly plumb single carburetor applications when connecting to AN style fittings. Line kits also include a capped -4AN fitting which can be easily connected to a fuel pressure gauge. Kits are offered with -6AN or -8AN lines and fittings.



ALL26156

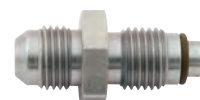
ALL26166

Application	C to C	Carb Thread	Red/Blue	Black
-6 Holley (4150 Series)	9-5/16"	7/8"-20	<b>ALL26154</b>	<b>ALL26164</b>
-8 Holley (4150 Series)	9-5/16"	7/8"-20	<b>ALL26156</b>	<b>ALL26166</b>
-8 Holley (4150 Series)*	9-5/8"	7/8"-20	<b>ALL26159</b>	<b>ALL26169</b>
-8 Holley Ultra HP (4150 Series)	9-5/8"	3/4"-16	—	<b>ALL26165</b>
-8 Holley Dominator (4500 Series)	11-5/8"	7/8"-20	<b>ALL26158</b>	<b>ALL26168</b>
-8 BG Demon	9-5/8"	9/16"-24	<b>ALL26157</b>	<b>ALL26167</b>

\*Designed for carburetors with custom metering block including Willy's and KB.

## GM T.P.I. Fuel Injection Fittings

Special tube O-ring fittings convert GM Tuned Port Injection fuel systems to -6AN fittings.



- ALL50950** .... TPI Return Fitting, M14-1.50
- ALL50951** .... TPI Inlet Fitting, M16-1.50





## Down Nozzle Filter with Breather Ring **ALL40325**



Filters allow excess fuel to evacuate the injection lines once engine is shut down to help prevent fuel from entering the cylinders. Low-profile filter design reduces the chance of damage. Package of 8.

## Nozzle Plugs **ALL40327**



Nozzle plugs take the place of the fuel nozzles when only running one set of injectors. Plugs feature 1/2"-20 threads and include a sealing O-ring. Package of 8.

## Nitrous Bottle Warmer

### **ALL76428**



Nitrous bottle warmers are the right way to safely obtain correct pressure in colder weather. Wrap around design evenly distributes heat on the bottle, eliminating hot spots. 12-16-volt warmers are designed to work with ALL76197 and ALL76198 pressure control kits. Bottle warmer measures 19" x 6" and includes adjustable straps to fit most 5-, 10-, and 15-lb. bottles.

## Nitrous Pressure Control Kits



Kit simplifies installation of a bottle warmer and helps maintain a consistent pressure when using a bottle warmer. 12V kit includes an adjustable pressure switch which controls the bottle warmer.

**ALL76197** ..... Kit with -4AN Line Adapter

**ALL76198** ..... Kit with -6AN Line Adapter

## Burst Panel Components



ALL26310

ALL26311

ALL26314

ALL26313

Burst panel is designed to blow open or release excessive manifold pressure in the event of an internal engine explosion, helping to prevent costly supercharger and body damage. Panel meets SFI 23.1 specifications and is commonly used on supercharged, alcohol injected engines, mounting directly to the intake manifold or supercharger (screw type only). Outer frame deflectors will direct force away from car.

**ALL26310** .... Burst Panel, Large (3-1/8" x 6-1/8")

**ALL26311** ..... Outer Burst Panel Frame

**ALL26314** ..... Outer Burst Panel Frame with Deflector

**ALL26313** ..... Inner Burst Panel Frame (used when manifold has an open plenum without burst panel support)

**ALL26315** ..... Fastener Kit 10-24 x 3/4", 24-Pack (for use with panel and outer frame or deflector)

**ALL26316** ..... Fastener Kit 10-24 x 1", 24-Pack (for use with panel, inner frame, and outer frame or deflector)

## Carb Hats

Carburetor hats are ideal to cover open carbs and prevent debris from falling into the engine while working in garage or pit area while the air cleaner is removed. 2-1/2" tall carb hats are designed to fit most carbs or throttle bodies with a 5-1/8" diameter neck.



ALL26040

ALL26042

ALL26043

ALL26044

**ALL26040** .... Plastic

**ALL26042** .... Plastic with Screen

**ALL26043** .... Aluminum

**ALL26044** .... Aluminum, with Sealing O-Ring

Note: Hats will not clear choke linkage or shaft on Holley style carbs but will clear choke horn with choke linkage and shaft removed.

## Dominator Carb Hat **ALL26041**



Plastic carb hat is 2-3/8" tall and fits over the 7-1/4" air cleaner opening of Holley Dominator carburetors to prevent water or debris from entering the engine. Solid cover may be drilled when an air cleaner stud is used.

## Drag High-Flow Carburetor Spacers

Specially designed for drag race applications to isolate carburetor from manifold, spacers prevent horsepower-robbing heat transfer and increase the distance from the bottom of the carburetor to the manifold plenum for better airflow. Spacers are CNC-machined in the U.S. from a polymer compound able to withstand temperatures up to 400°F. Available in open or four hole versions for 4150 and 4500 series Holley and Holley style carburetors in 1/2", 1", and 2" heights. Tapered four-hole spacers have specially contoured holes to increase air velocity under the carburetor. Not intended or recommended for street or circle track use.



4150 Series		4500 Series	
Part No.	Description	Part No.	Description
<b>ALL25980</b>	Open, 1/2"	<b>ALL25990</b>	Open, 1/2"
<b>ALL25981</b>	Open, 1"	<b>ALL25991</b>	Open, 1"
<b>ALL25982</b>	Open, 2"	<b>ALL25992</b>	Open, 2"
<b>ALL25983</b>	4-Hole, 1/2"	<b>ALL25993</b>	4-Hole, 1/2"
<b>ALL25984</b>	4-Hole, 1"	<b>ALL25994</b>	4-Hole, 1"
<b>ALL25986</b>	Tapered 4-Hole, 1"	<b>ALL25996</b>	Tapered 4-Hole, 1"

## Carb Drain/Primer Bottle **ALL40091**

Durable plastic 8-oz. squeeze bottle is ideal to assist draining and priming carburetors when making jet changes. Cap has an angled filler tube with a tapered tip that fits easily into the vent tube of the carburetor to refill fuel bowl.



## Primer Bottle **ALL40090**

Durable plastic squeeze bottle is ideal for priming alcohol engines. Cap has an angled filler tube, with tapered tip that easily fits into the vent tube of carburetor fuel bowl. 16-oz. capacity.



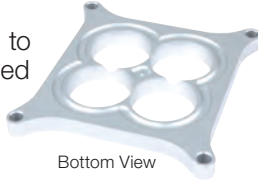
## Carb Shear Plates

Carb plates with built-in shear design help maximize performance on race engines with a large amount of cam overlap by creating a dam under the throttle plates, helping to build low pressure while improving vacuum signal to the carb. 1/2" tall plates are machined from 6061-T6 aluminum and clear anodized to protect against corrosion.

- ALL25970** .... 4150, 1-3/4" Bore
- ALL25972** .... 4500, 2" Bore
- ALL25973** ... 4500, 2-1/8" Bore



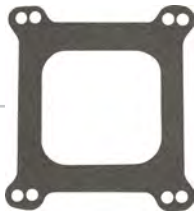
ALL25970



Bottom View

## Carburetor Gaskets

- ALL87200** .... 4150 Open
- ALL87202** .... 4150 4-Hole
- ALL87204** .... 4412 2-Hole, 2bbl.
- ALL87206** .... 4500 Open, Dominator



## Carburetor Hold Down Nuts

Easily remove these hold down nuts with a 1/4" extension. The spring ball on your extension holds the nut in place, no wrench or socket needed! Package of 4.



- ALL26324** .... 5/16"-18 Coarse-Thread Nuts
- ALL26326** .... 5/16"-24 Fine-Thread Nuts

## Angled Carb Spacer **ALL25975**

For Dirt Late Models and Modifications, spacer is angled downward, toward left front, to correct hesitation caused by poor fuel distribution as car "rocks up". Four-hole design enhances carb signal to improve throttle response and increase torque.



## Angled Restrictor Plate **ALL25977**

Four-hole aluminum spacer angles the carburetor left and to the rear so the carb is closer to level when in race attitude. Spacer accepts 1/2" or 1" tapered inserts which can be changed quickly by removing the carb. Inserts restrict air/fuel entry and reduce power slightly to prevent wheel spin and range in size from 0.950" to 1.400" for custom tailoring and quicker lap times. Spacer works with most Holley 4bbl. 4150/4160 series carburetors. Inserts sold separately.



## Restrictor Plates

The "Governor" is a four-hole aluminum spacer that accepts tapered inserts which can be changed quickly by removing the carb. Inserts restrict air/fuel entry and reduce power slightly to prevent wheel spin and range in size from 0.950" to 1.400" for custom tailoring and quicker lap times. Spacer works with most Holley 4bbl. 4150/4160 series carburetors. Inserts sold separately.

ALL26180



- ALL26180** .... 1/2" Restrictor Plate
- ALL26060** .... 1" Restrictor Plate

## Restrictor Plate Inserts

Tapered inserts are machined to be within .002" for precise tuning. Inserts feature a step to simply drop into spacers and have sizes engraved on each insert for easy identification. Sold in a set of 4.



For 1/2" Restrictor Plate	
Part No.	Size
<b>ALL26181</b>	0.950"
<b>ALL26182</b>	1.000"
<b>ALL26179</b>	1.050"
<b>ALL26183</b>	1.100"
<b>ALL26184</b>	1.150"
<b>ALL26185</b>	1.200"
<b>ALL26186</b>	1.250"
<b>ALL26187</b>	1.300"
<b>ALL26188</b>	1.350"
<b>ALL26189</b>	1.400"

For 1" Restrictor Plate	
Part No.	Size
<b>ALL26061</b>	0.950"
<b>ALL26062</b>	1.000"
<b>ALL26059</b>	1.050"
<b>ALL26063</b>	1.100"
<b>ALL26064</b>	1.150"
<b>ALL26065</b>	1.200"
<b>ALL26066</b>	1.250"
<b>ALL26067</b>	1.300"
<b>ALL26068</b>	1.350"
<b>ALL26069</b>	1.400"

## Full Throttle Non-Restricting Inserts

### **ALL26190**

Inserts are used in place of restricting inserts allowing full throttle operation without restriction, commonly used when qualifying or when track conditions allow for more power. Insert design provides a smooth transition over simply removing the restrictor inserts. Sold in a set of 4.



## Circle Track Throttle Return Spring Brackets

Black anodized aluminum bracket fastens to the carburetor mounting studs and features a larger opening specifically designed for use with mechanical linkage found on many circle track cars. The larger opening allows throttle linkage to be routed from underneath to help prevent clearance or interference issues. Dual return springs are connected to a universal return spring bracket to work with most carburetors. Brackets include a built-in adjustable throttle stop to help prevent damage to carburetor.



ALL54185



- ALL54185**..... Bracket for 4150 Series 4bbl.
- ALL54186**..... Bracket for 4412 Series 2bbl.



## Throttle Return Spring Brackets

Billet aluminum bracket can be used with cable or mechanical linkage. Bracket fastens to carb mounting studs and includes dual stainless steel return springs which are adjustable for tension. A specially designed return spring arm attaches to the carb for simplified installation and smooth operation. Low profile design clears most air cleaner assemblies.



Carb Size	Clear	Black
4150/Edelbrock	<b>ALL54200</b>	<b>ALL54202</b>
4500	<b>ALL54201</b>	<b>ALL54203</b>

Note: Longer carburetor studs will be required to accommodate bracket.

## Adjustable Throttle Brackets with Return Springs

Billet aluminum throttle bracket securely mounts and holds throttle cable in place. Bracket fastens to carb mounting studs and includes dual stainless steel return springs which are adjustable for tension. Specially designed return spring arm attaches to the carb for simple installation and smooth operation. Low profile design clears most air cleaner assemblies. Optional transmission kickdown brackets mount to the underside of throttle cable brackets.



Carb Size	Cable Style	Clear	Black
4150/Edelbrock	GM	<b>ALL54210</b>	<b>ALL54211</b>
4150/Edelbrock	Lokar	<b>ALL54214</b>	<b>ALL54215</b>
4150/Edelbrock	Morse	<b>ALL54218</b>	<b>ALL54219</b>
4150/Edelbrock	Ford	<b>ALL54222</b>	<b>ALL54223</b>
4150/Edelbrock	Mopar	<b>ALL54224</b>	<b>ALL54225</b>
4500	GM	<b>ALL54226</b>	<b>ALL54227</b>
4500	Lokar	<b>ALL54230</b>	<b>ALL54231</b>
4500	Morse	<b>ALL54234</b>	<b>ALL54235</b>
4500	Ford	<b>ALL54238</b>	<b>ALL54239</b>
4500	Mopar	<b>ALL54240</b>	<b>ALL54241</b>

Note: Longer carburetor studs will be required to accommodate bracket.

## Transmission Kickdown Brackets

Kickdown bracket attaches to the bottom of Allstar's adjustable throttle brackets. Fully adjustable to achieve correct cable setting.



- ALL54276** .... GM Style, Clear
- ALL54277** .... GM Style, Black
- ALL54278** .... Lokar Style, Clear
- ALL54279** .... Lokar Style, Black

## Return Spring Brackets

Kits are replacement hardware found on Allstar throttle brackets or may be used when building custom return spring brackets.



- ALL54194**... 4150, Clear
- ALL54195**... 4150, Black
- ALL54196**... 4500, Clear
- ALL54197**... 4500, Black
- ALL54193**... Return Springs Only, (2)

## Scoop Tray Mounts

Scoop tray mounts offer an all in one solution to mount a scoop tray, throttle, and nitrous solenoids. Mounts provide a clean look, eliminating the need to use multiple brackets, mounts and gaskets. CNC machined from 6061 aluminum, black anodized.



- ALL54302** .... 4150 (1.755" Bore)
- ALL54304** .... 4500 (2.375" Bore)

## Wide Open Throttle Microswitch Brackets

Black anodized microswitch brackets are made from lightweight billet aluminum and fit Holley 4150 and 4500 carburetors for precise activation of the microswitch. Brackets work with the standard secondary arm as well as a throttle adjustment-screw secondary arm. Each kit includes a bracket, microswitch, and stainless steel hardware to secure microswitch to the bracket. ALL54180 includes stainless hardware for mounting bracket to carburetor. ALL54181 mounts to an existing carb stud.



- ALL54180**..... WOT Microswitch and Bracket for 4150 Carbs\*
- ALL54181**..... WOT Microswitch and Bracket for 4500 Carbs
- ALL54182**..... Microswitch Only

\*Some model carbs may require mounting bosses be 8-32 tapped for installation.

## Throttle/Shifter Cables

Cables have many uses including use as a throttle cable or as a shifter cable for many applications. Cables have 7/16" mounting threads, #10-32 RH cable ends and 3" of travel.

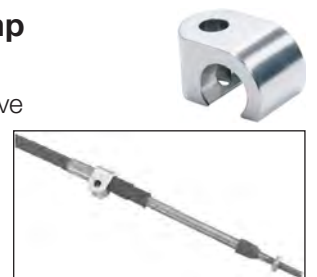


	Overall Length	Mount to Mount Length
<b>ALL54142</b>	43"	29" +/- 1"
<b>ALL54145</b>	60"	45" +/- 1"

## Morse Cable Half Clamp

**ALL18325**

Aluminum clamp fits over groove in non-threaded Morse style cables with a 3/8" housing to secure cable in place. Clamps feature a #10 (3/16") mounting hole. Sold each.







## Aluminum Throttle Linkage with Return Spring Kit

Linkage kit includes a throttle linkage with 1/4" rod ends for smooth operation



and a return spring kit for 2300 2bbl./4150 4bbl. Holley style carburetors. Return spring kit includes correct stepped bushings, mounting hardware, and heavy and light rate return springs. Throttle rod is easily formed to many applications and may be shortened and re-threaded using a 1/4"-28 tap.

**ALL54158**..... Kit with 24" Throttle Linkage

**ALL54178**..... Kit with 36" Throttle Linkage

**NEW**

### Individual Components

**ALL54159**..... Throttle Linkage with Rod Ends 24"

**ALL54179**..... Throttle Linkage with Rod Ends 36"

**ALL54168**.....Return Spring Kit

**NEW**

## Steel Throttle Linkage Kit



ALL54170



ALL54171

Linkage kit includes a 26" steel rod with a disconnect that speeds up carb changes and servicing. The kit includes 1/4" hardware for mounting to carburetor and throttle pedal.

**ALL54170**..... Kit with Quick Disconnect and Rod End

**ALL54171**..... Kit with Two Quick Disconnects

**ALL54172**..... Throttle Ball Stud Kit

## Aluminum Throttle Linkage Kit with Quick Disconnects

Kit features quick disconnects on each end to help provide easy carb changes without the



need of wrenches. The kit includes a 24" long 3/8" linkage that is pre-formed with a 4" drop to clear carb bracket and air cleaner base and has 10" of 3/8"-24 threaded area that allows linkage to be cut to desired length as needed. Carb stud kit is also available separately to set-up additional carbs with quick disconnect connection.

**ALL54188**..... Complete Kit

**ALL54189**..... Carb Stud Kit

## Quick-Release Ends

Quick-release ends are used when a connection needs to be removed and installed often. Steel constructed housing has a spring loaded release to keep housing secure to pivot ball.



**ALL54147**..... #10-32 With #10-32 And 1/4"-28 Studs

**ALL54149**..... 1/4"-28 With 1/4"-28 Stud

## Carb Mount Return Spring Kit

**ALL54168**

Kit includes chrome plated steel bracket, springs, bushings and hardware to fit a variety of applications.



## Return Spring Bushing Kit

**ALL54165**

This kit includes a double stepped bushing that acts as a reducer bushing for carb lever and a bushing for return spring tab to pivot on reducing the amount of spacers needed for mounting carb linkage. Bushing kit includes correct length bolt and lock nut for mounting linkage with a 1/4" rod end.



## Throttle Bushing Kit ALL54164

Aluminum bushings are stepped for clearance and adapt from 1/2" to 1/4" holes.



## Universal Return Spring Bracket

**ALL54167**

Chrome-plated steel bracket provides mounting location for return spring.



## Universal Return Spring Kit

**ALL54166**

Kit includes two springs and mounting bracket.



## Return Springs ALL54163

Universal springs for carburetor are 11-1/2"



long unextended. Package of 2.

## Carb Stud Spacers ALL9388

Spacers provide added clearance between throttle brackets and carburetors when needed. Spacers are 5/16" tall with 11/16" I.D. Package of 2.



## Throttle Pedals



Pedals can be pulled back if throttle binds or return spring fails. Side mount pedals are available as standard or roller design for smoother throttle control. Firewall mount pedal is used on race cars with flat or stock type rewalls.

- ALL54100**..... Standard
- ALL54101**..... Roller
- ALL54107**..... Firewall Mount

## Adjustable Throttle Pedals

Fully adjustable aluminum pedals are available for straight or angled foot box panels. Bronze bushings and nylon rollers provide smooth operation. Linkage arm has 1/4" holes spaced every 1/2" for adjustment of throttle linkage.

- ALL54098** .... Straight
- ALL54099** .... Angled



Angled Mount



## Adjustable Idle Kit

### ALL54154

Need cold start help to keep your race car running and get it warmed up? This kit allows you to adjust your idle speed from inside the cockpit! All items mount inside the foot box to stay clean and away from the carb itself! Designed to work with throttle pedals that have a flat surface on the arm, like Allstar ALL54098, bracket bolts to the foot box and adjusts against the top arm of the throttle pedal. Once your car is started, simply turn the adjustment knob to the desired idle setting. Kit is complete with adjustment knob, 5' cable assembly, mounting bracket and hardware. Throttle pedal sold separately.



## Floor Mounted Throttle Pedal Kit **ALL54102**



Floor mount pedal offers a smooth, natural feel to maximize throttle control and comfort. Complete kit includes a pedal with a built-in return spring and throttle stop, universal firewall bell crank assembly and two 24" throttle rods with rod ends and mounting hardware.

Firewall bell crank assembly requires welding to match the firewall angle and throttle rods will need to be cut and threaded to your specific lengths.

### Individual Components

- ALL54104**..... Pedal Only
- ALL54105**..... Throttle Cross Shaft
- ALL54159**..... Linkage Rod Only

## Heel Riser

Aluminum heel risers are drilled for easy mounting and include a non-skid pad. 4-1/2" wide.

- ALL54090** .... 1" Tall Riser
- ALL54091** .... 1-1/2" Tall Riser



## Heel Riser Rest **ALL54092**

Aluminum bracket is 1" tall and rivets to heel risers to help keep foot in place on the riser.



## Sprint Car Throttle Pedals



Pedals fit most sprint chassis with pivot spud welded on frame rail.

- ALL54094** .... Titanium
- ALL54095** .... 4130 Chrome Moly

## Fuel Cell Cap and Bolt-In Bung Kits

Billet aluminum neck looks good and provides a positive seal. The filler neck is raised to help prevent dirt and debris from falling into cell, causing fuel system contamination, while the large 3" opening helps when refueling. Kit includes mounting hardware.

- ALL40133**..... 12-Bolt JAZ/RCI w/Red Cap
- ALL40134**..... 6-Bolt JAZ w/Red Cap
- ALL40136**..... 12-Bolt JAZ/RCI w/Black Cap
- ALL40137**..... 6-Bolt JAZ w/Black Cap



## Fuel Cell Mounting Bracket

### ALL60063

Steel bracket is radiused to fit 1-1/2" tubing and has (8) 3/8" holes on 1/2" centers. Bracket is .085" thick and 1-1/2" wide x 4-3/4" tall.



## Fuel Cell Mounting Brackets

Steel brackets are .125" thick, 1-3/4" wide and available in three lengths. All have 3/8" holes.

- ALL60060** .... 2" Long
- ALL60061** .... 3" Long
- ALL60062** .... 4-3/4" Long



## Drum/Barrel Pump

### ALL40114

Hand-siphon drum pump dispenses or transfers low-viscosity fluids from a 55-gallon drum. Self-priming bulb delivers up to 5 gallons per minute. Compatible with gasoline, methanol, and nitro methane.



## Drum Pump Kit for Utility Jugs

Easily transfer low-viscosity fluids from most popular utility jugs without lifting a heavy jug by converting jug into a hand pump unit. Kit includes a cap and hand pump to replace the original utility jug cap. Individual cap may be purchased separately when using an existing pump. Pump siphon tube will need to be cut to length depending on the size of jug used.



- ALL40116**..... Kit for Allstar/Scribner/Sunoco Jugs
- ALL40117**..... Kit for VP Jugs
- ALL40118**..... Cap Only for Allstar/Scribner/Sunoco Jugs
- ALL40119**..... Cap Only for VP Jugs

## Redhead Dry Break Valves

Safe and effective method for refueling prevents fluid loss. Spring-loaded female receptacle mounts in a variety of locations and automatically closes when male dry break is removed. Female dry break accepts 2-1/2" fuel hose. Male dry break accepts 2-1/4" fuel hose.



- ALL40213**..... Female
- ALL40215**..... Male

### Replacement Components

- ALL99028** .... Seal Kit for ALL40213
- ALL99029** .... Seal Kit for ALL40215

## Over Flow Check Valves

Valves are 9-3/4" long and available in two styles. Use with overflow catch can.

- ALL40200** .... 1" Flapper Style
- ALL40201** .... 1-1/4" Flapper Style
- ALL40203** .... 1-1/4" Spring-Loaded



ALL40200

## Fuel Cell Hose

Clear vent and filler hose is ideal for Circle Track cars. Sold in pre-cut lengths.



Vent Hose	3'	5'	10'	20'
1" I.D.	<b>ALL40160-3</b>	<b>ALL40160-5</b>	<b>ALL40160-10</b>	<b>ALL40160-20</b>
1-1/4" I.D.	<b>ALL40161-3</b>	<b>ALL40161-5</b>	<b>ALL40161-10</b>	<b>ALL40161-20</b>
1-1/2" I.D.	<b>ALL40162-3</b>	<b>ALL40162-5</b>	<b>ALL40162-10</b>	<b>ALL40162-20</b>

Filler Hose	3'	5'	10'	20'
2-1/4" I.D.	<b>ALL40168-3</b>	<b>ALL40168-5</b>	<b>ALL40168-10</b>	<b>ALL40168-20</b>
2-1/2" I.D.	<b>ALL40170-3</b>	<b>ALL40170-5</b>	<b>ALL40170-10</b>	<b>ALL40170-20</b>

## Funnels

Heavy-duty plastic funnels are perfect for topping off fuel or other liquids. Available in several sizes.



- ALL40100** .... 6-Qt. Funnel with Brass Screen
- ALL40102**..... 2-Qt. Funnel with Brass Screen
- ALL40104** .... 1-Pint Funnel with Brass Screen





## Wheel Hub Kits

Wheel hub kits for 2-1/2" pin GN style axle tubes are a popular choice for modifieds and street stocks. Kits include a steel hub with a built-in rotor ring for most popular 8-bolt brake rotors and 5/8-11 x 2" wheel studs, a 24-spline drive flange, inner and outer wheel bearings with races installed, hub seal, brake rotor bolt kit and double-sided lug nuts. Spindle nut kit sold separately.



**ALL68806** .... 5 x 5" Bolt Circle  
**ALL68807** .... 5 x 4-3/4" Bolt Circle

### Related Components

**ALL72173** ..... Locking Spindle Nut Kit  
**ALL72177** ..... Steel RH Spindle Nut

## Wheel Bearings and Races

Tapered roller wheel bearings and bearing races are direct replacements for many popular applications. REM finished bearings and races feature a special polished finish for reduced drag over standard bearing/race combinations.

Description	Inner Bearing	Inner Race	Outer Bearing	Outer Race
<b>Standard</b>				
Wide 5	<b>ALL72215</b>	<b>ALL72230</b>	<b>ALL72245</b>	<b>ALL72255</b>
5x5 2" Pin	<b>ALL72200</b>	<b>ALL72260</b>	<b>ALL72200</b>	<b>ALL72260</b>
5x5 2-1/2" Pin	<b>ALL72210</b>	<b>ALL72225</b>	<b>ALL72210</b>	<b>ALL72225</b>
Ford Granada, Mustang II, Hybrid	<b>ALL72270</b>	-	<b>ALL72274</b>	-
GM Metric 1979-81 Monte Carlo, etc.	<b>ALL72275</b>	-	<b>ALL72277<sup>†</sup></b>	-
GM Metric 1982-88 Monte Carlo, etc.	<b>ALL72275</b>	-	<b>ALL72278<sup>†</sup></b>	-
<b>Timken</b>				
Wide 5	<b>ALL72217</b>	-	<b>ALL72247</b>	-
5x5 2" Pin	<b>ALL72202</b>	-	<b>ALL72202</b>	-
5x5 2-1/2" Pin	<b>ALL72212</b>	-	<b>ALL72212</b>	-
<b>REM Finished</b>				
All Wide 5	<b>ALL72216</b>	<b>ALL72231</b>	<b>ALL72246</b>	<b>ALL72256</b>
5x5 2-1/2" Pin	<b>ALL72290</b>	-	<b>ALL72290</b>	-
Ford Granada, Mustang II, Hybrid	<b>ALL72291</b>	-	<b>ALL72292</b>	-
GM Metric 1979-81	<b>ALL72293</b>	-	<b>ALL72294<sup>†</sup></b>	-

<sup>†</sup>Bearing for Outer Race or Cup with a 1.97" O.D.

## Wheel Bearing Kits

Kits contain inner bearing, outer bearing and seal.

**ALL72300** .... Wide 5 Kit, Wilwood, Winters  
**ALL72311\*** .... Wide 5 Low Drag Kit, Wilwood, Winters  
**ALL72301** ..... Wide 5 Kit, Howe (Contender Hub Only)  
**ALL72302** ..... 5x5 Kit, 2" Pin  
**ALL72303** .... 5x5 Kit, 2-1/2" Pin

\*Kit includes REM finished bearings and low drag lip style seal.



## Timken Wide 5 Wheel Bearing Kit

### ALL72310

This wheel bearing and seal kit is designed to fit most Wide 5 hubs. The complete kit will update one hub and includes inner and outer wheel bearings, inner and outer races, and a low-drag hub seal.



## 32 Vane

### Non-Directional Brake Rotor

#### ALL42010

Popular 8-bolt brake rotor is commonly used on the rear of modifieds and stock cars and features a 32 non-directional vane design which allows this rotor to be used on either side of the vehicle. Rotor measures 11.75" x .810" wide and weighs just 8 lbs.

See Brake section for other Hub/Rotor products!



## 1-Ton Wheel Bearing Kits

Kits contain all components to install one hub assembly including a hub seal, inner bearing, inner race, outer bearing, and outer race. REM finished bearings and races feature a special polished finish for reduced drag over standard bearing/race combinations

**ALL72313** ..... Kit with Standard Bearings  
**ALL72314** ..... Kit with REM Finished Bearings

## Timken Wheel Bearing Grease

**ALL78241** ..... 16-oz. Tub Standard  
**ALL78240** ..... 14-oz. Cartridge Standard  
**ALL78242** ..... 14-oz. Cartridge High-Temp. Synthetic



HUB BEARINGS AND SEALS

## Master Wheel Bearing and Seal Kits

Kits contain all components to install one brake rotor/hub assembly including hub seal, inner bearing, outer bearing, locknut kit and dust cap.

**ALL72305**† ... GM Metric, 1979-81

**ALL72306**† ... GM Metric, 1982-88

**ALL72308** .... Granada Rotor with Mustang II Spindle

**ALL72309** .... Hybrid Rotor with Mustang II Spindle

†Bearing for Outer Race or Cup with a 1.97" O.D.

‡Bearing for Outer Race or Cup with a 1.78" O.D.



ALL72305

## Bearing Spacers

Spacers fit between inner and outer bearings. Prevent overtightening and consistently set bearing pre-load while reducing bearing drag. US Patent No. 6,312,162.

**ALL72320**..... Wide 5

**ALL72323**..... 5x5 with 2" Pin

**ALL72324**..... 5x5 with 2-1/2" Pin

**ALL72322**..... Mustang II Spindle

**ALL72325**..... GM Metric Spindle 1979-88



## Standard and Low-Drag Hub Seals

Hub seals keep grease in the hub and on the wheel bearings. Available for 5x5 and Wide 5 hubs. Low-drag seals reduce drag for improved performance.



Description	Standard Hub Seal	Low-Drag Hub Seal
Wide 5 (Except Howe)	<b>ALL72120</b>	<b>ALL72121</b>
Wide 5 (Except Howe) O-Ring Style	-	<b>ALL72122</b>
Wide 5 Howe	<b>ALL72124</b>	<b>ALL72125</b>
Wide 5 1-Ton	<b>ALL72130</b>	-
5x5 2" Pin	<b>ALL72124</b>	<b>ALL72125</b>
5x5 2-1/2" Pin	<b>ALL72114</b>	<b>ALL72115</b>
5x5 2-1/2" Pin O-Ring Style	-	<b>ALL72123</b>
Ford Granada, Mustang II, Hybrid	<b>ALL72126</b>	-
GM Metric (Monte Carlo) 1978-88 (Front)	<b>ALL72128</b>	-

## Spindle Nut Sockets

Aluminum hex style spindle nut socket features a 1/2" drive for use with a ratchet.

**ALL10110** ..... Socket for 2" Pin Wide 5 and 5x5 Spindle Nuts, 2-3/8"

**ALL10114** ..... Socket for 1-Ton Wide 5 Spindle Nuts, 2-5/8"

**ALL10115** ..... Socket for 2-1/2" Pin 5x5 Spindle Nuts, 2-7/8"



## Spindle Nut Kit for 2" Pin Wide 5 and 5x5 Hubs

Spindle Nut Kit for most popular Wide 5 Hubs and Howe, PCR 5x5 hubs with a 2" pin. Kit includes a tabbed washer, retaining nut, and a tabbed locking ring with locking screws. Retaining nut has 1-13/16"-16 RH threads.

**ALL44130**..... Steel Nut Kit

**ALL44131**..... Aluminum Nut Kit



## Spindle Nut Kit for 1-Ton Wide 5 **ALL72176**

Spindle nut kit for 1-Ton style Wide 5 axle tube includes a retaining nut, tabbed washer and a tabbed locking ring with locking screws. Retaining nut has 2"-16 RH threads.



## Spindle Nut Kit for 2-1/2" Pin 5x5 Hubs **ALL72173**

Spindle nut kit for most popular Allstar, PEM, Winters, AFCO and SCP 5x5 GN hubs with a 2-1/2" pin. Kit includes a steel retaining nut, tabbed washer and a tabbed locking ring with locking screws. Retaining nut has 2-3/8"-18 RH threads.



## Spindle Nut for 2-1/2" Pin 5x5 Hubs **ALL72177**

Spindle nut used with tab style locking ring/washer. Retaining nut has 2-3/8"-18 RH threads.



## GM Spindle Nut Kit **ALL72160**

Spindle nut kit for 1978-88 G-Body metric chassis spindle includes a castle style retaining nut, tabbed washer and a cotter pin. Retaining nut has 3/4"-20 RH threads.



## Mustang II Spindle Nut Kit **ALL72161**

Spindle nut kit for most Mustang II stock type spindles includes a retaining nut, tabbed washer, crown retainer, and a cotter pin. Retaining nut has 13/16"-20 RH threads.



## Front Hub Dust Caps

Stock replacement style dust caps.

**ALL72164**..... GM Metric Hub, 2-3/32" O.D.

**ALL72165**..... Ford Hub, 1-25/32" O.D.



## Ford 9" Floater Axle Housings



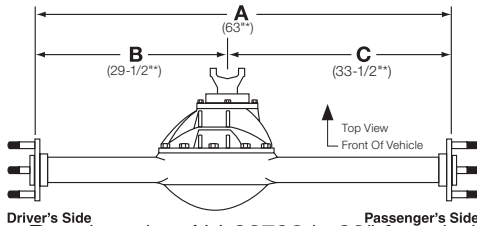
Housings are jig welded for correct alignment using all new components including a fabricated center section, new 3" O.D. x 3/16" wall axle tubes and include a vent fitting, carrier mounting studs, U-bolts and drain plugs. Note: Dimensions listed are from hub face to hub face.

Housing Width/Offset	2" Pin	2-1/2" Pin
58"/Centered	-	<b>ALL68820</b>
60"/Centered	<b>ALL68700</b>	<b>ALL68822</b>
62"/Centered	<b>ALL68704*</b>	<b>ALL68824</b>
63"/2" Offset	<b>ALL68708</b>	-

\* Special Order Housing

### TECH TIP

#### Housing Measuring Diagram



Example: Bare housing ALL68708 is 63" from hub face to hub face and the pinion is located 2" to the left of the housing centerline when viewed from rear of housing.\*

Notes: Please measure and inspect housing before welding brackets or painting. Housing is non-returnable if modified or custom. Welding suspension brackets on rear end housings can cause warping. Check for straightness after welding. These housings use Allstar ALL72100 inner grease seals.

\*Dimensions for example only.

## Ford 9" Flanged Axle Housings



Steel axle housings are built with all new components. The center section is centered, so the pinion yoke is offset approximately 1" to the right allowing for symmetric tube bracketry on each side. Housing includes vent, carrier studs and axle bearing retainer t-bolts. Tube diameter is 3" with 3/16" wall thickness and features large bearing Late/Torino style ends. Axles sold separately.

Part No.	Axle Housing Width	Axle Housing Width w/ Axle*
<b>ALL68830</b>	51"	56"
<b>ALL68832</b>	53"	58"
<b>ALL68834</b>	55"	60"

\*Width measurements are from axle angle to axle angle when using axles with a 2-1/2" offset.

## Custom Ford 9" Axle Housings



Custom Ford 9" housings can be built to any width and pinion location with floating axle style pins or standard angled axle ends. Floating axle style housings are available with most 5x5 or Wide 5 hub pins. Standard angled axle housings can be ordered with Small Ford, Early Ford or Late/Torino style ends. All housings feature new fabricated center sections, new 3" O.D. x 3/16" wall axle tubes completely jig-welded for straightness. To order please call and request a special-order form then fill in all required information and return to us with a signature attached. Housings are non-returnable and offered on a special-order basis only.

**ALL68710**..... Custom Housing Bare

**ALL68711**..... Custom Housing w/GM Metric Mounts

## Rear End Station Brackets ALL10178

Stand adapter brackets fasten to adjustable arms of most engine stands. Supports full-size car and light truck rear axle housings when servicing or replacing differential gear sets. Position housing onto arms and secure into place with included retaining straps. (Engine stand sold separately).



## Pinion Centering Jig ALL68370

Pinion centering jig fastens to the rear end housing and locates the pinion centerline when building or narrowing housings. Machined slots are designed to retain most tape measure ends for accurate measurements. Applications include GM 12 and 14-Bolt, Dana 44 and 60, Chrysler 8-3/4", and Ford 8.8" and 9" housings.



## Ford 9" Truss Support ALL68330

Weld-on support adds strength to rear axle housing and reduces unwanted flex during extreme torque. Constructed of 12-gauge (.108") steel. 36" L x 2" W. Additional trimming required to properly fit housing.







## Ford 9" Flanged Axle Housing Kit for GM Intermediate Metric Chassis



ALL68758

Housing kit fits the 1978-88 GM intermediate chassis. Replace a stock GM 7.5" rear-end with the much stronger Ford 9" style. Kit includes a new fabricated center section, new axle tubes with large bearing late Ford/Torino style-ends, 31-spline axles with bearings and seals installed, drilled for studs with 5 on 4-1/2" or 5 on 4-3/4" bolt circles. Choose from two widths, 58" and 60" axle angle to axle angle. Note: this kit includes two unequal length axles, locating the pinion approximately in stock (centered) location.

- ALL68758** .... Ford 9" Housing Kit 58" with Trailing Arm Brackets\*
- ALL68756** .... Ford 9" Housing Kit 58" without Brackets
- ALL68759** .... Ford 9" Housing Kit 60" with Trailing Arm Brackets\*
- ALL68757** .... Ford 9" Housing Kit 60" without Brackets

\* Trailing arm mounting brackets installed to position the pinion angle approximately 4° down.

## Ford 9" Cut-to-Fit Flanged Axles

Cut-to-fit 31-spline axles for Ford 9" rear ends are a great alternative to custom axles for street, drag racing and circle track use. Axles are drilled for .687" press-in style wheel studs and have multiple wheel bolt patterns for 5 on 4-1/2", 4-3/4" and 5" bolt circles. Axles have .470" thick flanges with a 5.94" outer diameter and a 3.06" hub register to center most rotors and drums. Axles with bearings have a 3.150" O.D. bearing installed for housings with large bearing ends, a press-on sleeve to retain bearing to the axle and an axle retainer for large bearing late/Torino style housing end. Wheel studs sold separately.



- ALL67500** .... Axle, 29-1/2" Long (with 10" of Spline)
- ALL67501** .... Axle With Bearing, 29-1/2" Long (with 10" of Spline)
- ALL67502** .... Axle, 33" Long (with 9" of Spline)
- ALL67503** .... Axle With Bearing, 33" Long (with 9" of Spline)

Note: Axle includes a spacer which allows axle to be a replacement for 2.36" or 2.50" offset axles. Spacer is pre-installed between axle angle and bearing assembly for 2.50" offset.

### Related Components

- ALL44111** ..... 1/2"-20 Wheel Studs, 5-Pack
- ALL44117** ..... 5/8"-18 Wheel Studs, 5-Pack

## Ford 9" Housing Ends

Housing ends are welded into 3/16" wall x 3" O.D. axle tubes when building a custom width housing or converting to larger axles. Ends feature a stepped design with a beveled welding angle to help position angle in tube for easier installation.



- ALL68308** .... Late/Torino Style
- ALL68309** .... Early Style

## Ford 9" Axle Bearing Assembly **ALL72315**

Replacement rear axle bearing used in many Ford car and truck rear ends. Bearing measures 3.150" O.D. to fit into Big Ford housing ends and has an I.D. of 1.565". A seal and press-on retaining sleeve are included.



## Ford 9" Axle Spacer Plates

Spacer plate takes the place of drum brake backing plate and properly preloads the tapered style axle bearing. Spacers fit large bearing Ford 9" housing ends. Sold each.



ALL72318

- ALL72318** ..... Late/Torino Style
- ALL72319** ..... Early Style

## Ford 9" Axle Retainers

Retainer bolts to the housing end to retain the axle/bearing into large bearing Ford 9" housings. Steel retainer is 3/16" thick and designed to fit over axles, eliminating the need to remove bearing from axle.



- ALL72316** ..... Late Torino Style (3/8" Fasteners)
- ALL72317** ..... Early Style (1/2" Fasteners)

## Ford 9" Backing Plate T-Bolts

Unique T-head bolts are required to fasten backing plates or brake brackets to Ford 9" housing ends. Kits include bolts, lock washers and nuts. Package of 8.



- ALL72042** ..... 3/8"-24 x 1-1/4" (Late/Torino Style)
- ALL72043** .... 1/2"-20 x 1-1/8" (Early Style)



Bobby Stremme

## Ford 9" Axle Housing Seals

Internal seals prevent gear lube from leaking into axle tube to eliminate premature rear end failure. Seal housings are O-ring type with spring-loaded seals. For use with 3" O.D. axle tubes and most 31-spline axles. Measure I.D. of tube for proper fit.



- ALL72100\*** ... 2.625" O.D. Fits 3/16" Wall, 3" Tube, Red
- ALL72102** ..... 2.562" O.D. Fits 7/32" Wall, 3" Tube, Blue
- ALL72104** ..... 2.500" O.D. Fits 1/4" Wall, 3" Tube, Gold

### Replacement Components

- ALL72101** ..... O-Rings for ALL72100, 3-Pack
- ALL72103** ..... O-Rings for ALL72102, 3-Pack
- ALL72105** ..... O-Rings for ALL72104, 3-Pack
- ALL72108** ..... Inner Seal

\*Use with Allstar steel and aluminum axle tubes.

## Universal Ford 9"

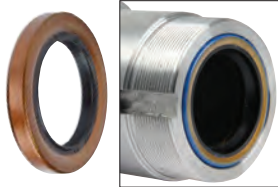
### Axle Housing Seal **ALL72099**

Place seal inside the axle tube near the center section to keep rear end lube in the center section area of most coating axle style rear end housings. Universal seal works with most 3" O.D. axle tubes, regardless of wall thickness. Internal seal diameter of .975" works with most 28- and 31-spline axles.



## Axle Snout Seal

Seal is pressed into the outer end of a 5x5 axle tube snout with a 2-1/2" pin to help prevent differential lube from entering the outer wheel bearing area and contaminating the wheel bearing grease. Seal has an outer diameter of 1.875".



- ALL72141** ..... Seal with 1.250" I.D.
- ALL72142** ..... Seal with 1.325" I.D.

## Runout Checker

### **ALL96440**

Fixture provides an easy way to check for bent axles, torque tubes, drive shafts, torsion bars or radius rods. Fixture measures 16-1/2" overall.



## Tech Tip

Using a straight edge and a paint marker, draw a straight line down the length of a new axle before installation. Periodically inspect axle for twist using the painted line as a reference.



## Axles

Axles t most " coating style" quick change and Ford 9" rear ends. 31-spline axles are available solid or gun-drilled to reduce weight. Use with 31-spline differential or spool and 24-spline drive angles.

Length	31-Spline Gun-Drilled	31-Spline Solid
26-1/2"	<b>ALL66265</b>	<b>ALL66266</b>
27-1/2"	<b>ALL66275</b>	<b>ALL66276</b>
28"	<b>ALL66280</b>	<b>ALL66281</b>
28-1/2"	<b>ALL66285</b>	<b>ALL66286</b>
29"	<b>ALL66290</b>	<b>ALL66291</b>
29-1/2"	<b>ALL66295</b>	<b>ALL66296</b>
30"	<b>ALL66300</b>	<b>ALL66301</b>
30-1/2"	<b>ALL66305</b>	<b>ALL66306</b>
31"	<b>ALL66310</b>	<b>ALL66311</b>
31-1/2"	<b>ALL66315</b>	<b>ALL66316</b>
32"	<b>ALL66320</b>	<b>ALL66321</b>
32-1/2"	<b>ALL66325</b>	<b>ALL66326</b>
33"	<b>ALL66330</b>	<b>ALL66331</b>
33-1/2"	<b>ALL66335</b>	<b>ALL66336</b>
34"	<b>ALL66340</b>	<b>ALL66341</b>
34-1/2"	<b>ALL66345</b>	<b>ALL66346</b>
35"	<b>ALL66350</b>	<b>ALL66351</b>
35-1/2"	<b>ALL66355</b>	<b>ALL66356</b>
36"	<b>ALL66360</b>	<b>ALL66361</b>
36-1/2"	<b>ALL66365</b>	<b>ALL66366</b>
37"	<b>ALL66370</b>	<b>ALL66371</b>
37-1/2"	-	<b>ALL66376</b>

## T-Handle Axle Puller

### **ALL66115**

All-in-one T-handle puller threads into axle for easy installation or removal. Tool includes adapters to fit 3/8"-16 coarse or 3/8"-24 fine thread solid axles, and 3/4"-16 fine thread gun-drilled.



## Aluminum Axle Plug

### **ALL66100**

Axle plug threads into the end of a gun-drilled Allstar, Ford 9", or quick change axle to keep rear end lube out of the axles. 3/8"-24 internal thread for correct axle spacing.



## Extreme Pressure Lube

### **ALL78246**

Originally used throughout the tool and die industry, this lube provides superior durability and wear protection, taking the place of anti-seize in many applications. Recommended for spline-to-spline contact, threaded adjusters, and engine fasteners. 4-ounce tube.



## Steel Axle Tubes

Steel axle tubes have a 3" O.D., a 2-5/8" I.D., and may be shortened. Constructed from 3/16" wall tubing.



Part No.	Overall Tube Length	Tube Length to Inner Bearing	Axle Length
<b>Wide-5</b>			
ALL68218	26"	20-1/2"	32"
ALL68220	27"	21-1/2"	33"
ALL68222	28"	22-1/2"	34"
ALL68224	29"	23-1/2"	35"
ALL68226	30"	24-1/2"	36"
ALL68228	31"	25-1/2"	37"
ALL68230	32"	26-1/2"	38"
ALL68231	32-1/2"	27"	38-1/2"
ALL68232	33"	27-1/2"	39"
ALL68234	34"	28-1/2"	40"
ALL68235	35"	29-1/2"	41"
<b>5x5, 2-1/2" Pin</b>			
ALL68240	22"	19-1/2"	28-1/2"
ALL68244	24"	21-1/2"	30-1/2"
ALL68246	25"	22-1/2"	31-1/2"
ALL68248	26"	23-1/2"	32-1/2"
ALL68252	28"	25-1/2"	34-1/2"
ALL68256	30"	27-1/2"	36-1/2"
ALL68258	31"	28-1/2"	37-1/2"
ALL68260	32"	29-1/2"	38-1/2"
<b>5x5, 2" Pin</b>			
ALL68264	24"	20-1/2"	30"
ALL68266	25"	21-1/2"	31"
ALL68268	26"	22-1/2"	32"
ALL68270	27"	23-1/2"	33"
ALL68272	28"	24-1/2"	34"
ALL68274	29"	25-1/2"	35"
ALL68276	30"	26-1/2"	36-1/2"
ALL68278	31"	27.75"	37-1/2"
ALL68280	32"	28.75"	38-1/2"

## Heavy Wall Steel Axle Tubes

**NEW**

Heavy wall steel tubes for 5x5 Hubs with 2-1/2" pins are constructed of heavy 5/8" wall tubing.

Part No.	Overall Tube Length	Tube Length to Inner Bearing	Axle Length
ALL68262-24	24"	21-1/2"	30-1/2"
ALL68262-26	26"	23-1/2"	32-1/2"

## Wide 5 Aluminum Axle Tubes

3" O.D. x 2.500" I.D. axle tubes are built from 7075-T6 aluminum and are machined for spool seal ALL72140. Constructed from 1/4" wall tubing.



Part No.	Overall Tube Length	Tube Length to Inner Bearing	Axle Length
ALL68202	26"	20-1/2"	32"
ALL68203	26-5/8"	21-1/8"	32-1/2"
ALL68204	27"	21-1/2"	33"
ALL68206	28"	22-1/2"	34"
ALL68208	29"	23-1/2"	35"
ALL68210	30"	24-1/2"	36"
ALL68211 <b>NEW</b>	31"	25-1/2"	37"
ALL68212	32"	26-1/2"	38"
ALL68213	35"	29-1/2"	41"

## 1-Ton Wide 5 Aluminum Axle Tubes

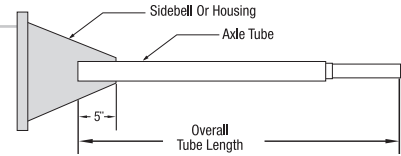
**NEW**

Part No.	Overall Tube Length	Tube Length to Inner Bearing	Axle Length
ALL68215-26	25-5/8"	20"	32" or 33"
ALL68215-30	30-1/8"	24-3/8"	36" or 37"

## TECH TIP

### How to Measure Axle Tube Length

Tube should extend 5" into side bell or aluminum housing.



## Quick Change Tube Install/Removal Tool



### ALL11350

Finally an easy and correct way to install and remove quick change axle tubes. Secure support tool into a vise or to a workbench with optional brackets.



Components are included to remove and install tubes with the turn of a wrench. An adapter for tubes with Wide 5 or 5 on 5" hubs is also included.

### Related Components

**ALL11355** ..... Installation End Cap for Bolt-On and 2-7/8" Pin Wide 5 Tubes



**ALL11351** ..... Mounting Bracket Kit for Quick Change Tube Install/Removal Tool



## Bench Yoke ALL11360

Bench yoke mounts to a workbench to hold transmissions, rear ends, differentials and many other items for assembly or servicing. Yoke rotates 360° and features two 10" long pivoting arms that are 1" wide by 1/2" thick. Tool is unpainted so it can be modified as needed.



## Weld-On Snouts

Weld-on snouts may be used for repairing existing axle tubes or custom building new tubes. Three hub styles are available.

- ALL68300** .... Wide 5 2" Pin
- ALL68302** .... 5x5 2" Pin
- ALL68304** .... 5x5 2-1/2" Pin



ALL68300



### Pre-drilled Quick Change Cover Nut Kit **ALL72060**

Aluminum nuts are pre-drilled for safety wire to prevent nuts from working loose and causing leaks. Nuts have 3/8"-16 threads. Package of 10.



### Quick Change Cover Nut Kits

Aluminum anodized nuts have 3/8"-16 threads and captured washers. Package of 10.



- ALL72058** ..... Black Short - 7/8" OAL
- ALL72059** ..... Red Short - 7/8" OAL
- ALL72061** ..... Red Long - 1-1/4" OAL

### Quick Change Cover Stud Kit **ALL72056**

Fully threaded 3/8"-16 studs are 1-3/4" long and are direct replacements for many quick change cover studs.



### Quick Change Cover Stud Ball Kit

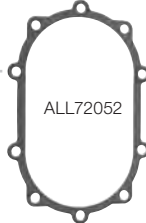
#### **ALL26961-10**

These hardened steel balls are inserted into the stud holes before the cover studs are threaded in to keep the studs from galling the housing and help disperse any stress created when installing the cover studs.



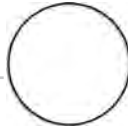
### Quick Change Cover Gaskets

- ALL72050** ..... Paper, Single
- ALL72050-10** ..... Paper, 10-Pack
- ALL72052** ..... Thick w/ Steel Core, Single
- ALL72052-10** ..... Thick w/ Steel Core, 10-Pack



### Quick Change Side Bell O-Ring **ALL72054**

Replacement O-ring for Winters quick change.



### Axle Tube Oil Seal **ALL72140**

Also called a spool seal, it fits Frankland, Winters, and other quick change rear ends. Seal is pressed into side bell or axle tube and seats against the bearing flange of the spool to prevent lube from leaking into axle tubes. Seal has a 1-15/16" I.D. and a 2-5/8" O.D.



### Drive Flange Gaskets

Steel core gaskets help prevent leaking issues commonly found with standard paper gaskets. Package of 2.

- ALL72074** ..... 8-Bolt
- ALL72075** ..... 5-Bolt



### Quick Change Gear Case **ALL14355**

Sturdy composite storage case protects and holds up to 8 sets of quick change gears. Case has molded in carrying handles and metal hinges. 5" x 8" x 15-1/2" overall when closed.



### Quick Change Drain Pan Plastic **ALL14356**

Tapered top drain pan, combined with an open low corner, allows quick change gear changes to happen even faster. Low-profile, 2-piece plastic pan includes a stainless steel filter screen molded into the top tray. 4-qt. capacity.



### Aluminum Quick Change Drain Pan **ALL14166**

Aluminum drain pan is handy when changing quick change gears. Built-in perforated shelf holds gears and allows lube to drain into pan. Pan is 10-1/4" wide, 12" long, and 3-3/4" deep.



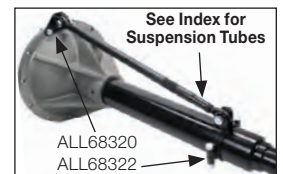
### Quick Change Jack Post Brackets

Brackets bolt to quick change rear end, providing a location to jack the car.

- ALL68346** .... Steel Bracket
- ALL68347** .... Aluminum Bracket



### QC Axle Tube Support Brackets



Brackets provide mounting points for a strut rod assembly to help eliminate flex found in quick change rear ends. ALL68320 attaches to the side bell bolts on most quick change rear ends. ALL68322 has tabs with 5/8" holes and mounts directly onto a 3" axle tube.

- ALL68320** .... Center Section Mount
- ALL68322** .... Axle Tube Mount



## Quick Change Gear Totes

Durable plastic quick change gear tote organizes extra gear sets and keeps them clean. Lid snaps shut to hold gears in place. 8"L x 5"W x 2"H.



Gear Sets Not Included

Description	Single	10-Pack
White	<b>ALL14350</b>	<b>ALL14350-10</b>
Black	<b>ALL14351</b>	<b>ALL14351-10</b>
Yellow, 6-Spline (Midget) Gear Set	<b>ALL14352</b>	<b>ALL14352-10</b>

## Gear Tote Tray

**ALL12269**

Neatly organize up to 10 quick change gear tote boxes vertically. Tray is 21" long x 5-1/2" deep with a 4" tall front edge making them perfectly sized for Allstar gear tote boxes.



## Ring and Pinion Installation Kits

Allstar ring and pinion installation kits are available with or without bearings. Kits contain all the hard-to-find individual parts for a quick, trouble-free installation.

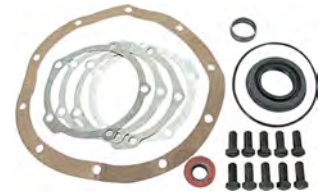
### Bearing Kits Include:\*

- Pinion and Side (Carrier) Bearings
- Pinion Seal
- Pinion Depth Shims
- Adjustable Side (Carrier) Shims
- Crush Sleeve or Solid Spacer
- Pinion Nut
- One-Ounce Tube of Silicone or Gasket
- Gear Marking Compound
- Ring Gear Bolts



### Shim Kits Include:\*

- Pinion Seal
- Pinion Depth Shims
- Adjustable Side (Carrier) Shims, Two (If Applicable)
- Crush Sleeve or Solid Spacer
- Pinion Nut
- One-Ounce Tube of Silicone or Gasket
- Gear Marking Compound
- Ring Gear Bolts



\*Kit components shown for reference only, specific components will vary depending on application.

Bearing Kit	Shim Kit	Carrier Type	Application
<b>General Motors</b>			
<b>ALL68515</b>	<b>ALL68615</b>	10-Bolt	7.5", Passenger and Light Truck S-10 1982-1998
-	<b>ALL68616</b>	10-Bolt	7.5", Passenger, except Monza 1977-1981
-	<b>ALL68622</b>	10-Bolt	8.2", Chevy Passenger and G-10 Van, 30-Spline Pinion
<b>ALL68521</b>	<b>ALL68621</b>	10-Bolt	8.5", 30-Spline Pinion Passenger and Light Truck 1964-72
<b>ALL68518</b>	<b>ALL68618</b>	12-Bolt	8.875", Chevy and GMC Truck and Blazer, 1.438" Pinion 1970-98
<b>ALL68519</b>	<b>ALL68619</b>	12-Bolt	8.875", Chevy High-Performance Passenger Axle, 1.625" Pinion
<b>Chrysler</b>			
<b>ALL68532</b>	<b>ALL68631</b>	8-3/4"	489 Casting with 2.000" I.D. Carrier Bearings (Large #9 on Side of Casting)
<b>ALL68531</b>	<b>ALL68631</b>	8-3/4"	489 Casting with 1.796" I.D. Carrier Bearings (Large #9 on Side of Casting)
<b>ALL68537</b>	<b>ALL68637</b>	8-3/4"	742 Casting with 1.796" I.D. Carrier Bearings (Large #2 on Side of Casting)
<b>Ford Motor Company</b>			
-	<b>ALL68639</b>	8"	"Pig" Type, 25-Spline Pinion
<b>ALL68513</b>	<b>ALL68613</b>	8.8"	Salisbury Type with 10-Bolt Cover, 30-Spline Pinion
<b>ALL68510</b>	<b>ALL68610</b>	9"	2.893" Carrier Bearing, Stock 28-Spline Pinion Support, Solid Spacer
<b>ALL68511</b>	<b>ALL68611</b>	9"	2.893" Carrier Bearing, Stock 28-Spline Pinion Support, Crush Sleeve
<b>ALL68509</b>	<b>ALL68610</b>	9"	3.062" Carrier Bearing, Stock 28-Spline Pinion Support, Solid Spacer
<b>ALL68512</b>	<b>ALL68611</b>	9"	3.062" Carrier Bearing, Stock 28-Spline Pinion Support, Crush Sleeve
<b>ALL68539</b>	<b>ALL68610</b>	9"	3.062" Carrier Bearing, Daytona 28-Spline Pinion Support, Solid Spacer
<b>ALL68538</b>	<b>ALL68611</b>	9"	3.062" Carrier Bearing, Daytona 28-Spline Pinion Support, Crush Sleeve
<b>ALL68543</b>	<b>ALL68610</b>	9"	3.250" Carrier Bearing, Daytona 28-Spline Pinion Support, Solid Spacer
<b>ALL68542</b>	<b>ALL68611</b>	9"	3.250" Carrier Bearing, Daytona 28-Spline Pinion Support, Crush Sleeve
<b>ALL68540</b>	-	9"	3.250" Carrier Bearing, MW or Strange 28-Spline Pinion Support, No Spacer or Crush Sleeve
<b>ALL68541</b>	-	9"	3.250" Carrier Bearing, MW or Strange 35-Spline Pinion Support, No Spacer or Crush Sleeve
<b>Dana</b>			
<b>ALL68533</b>	<b>ALL68633</b>	-	Model 44/1967-1997
<b>ALL68534</b>	<b>ALL68634</b>	-	Model 60 and 61/1966-1998



## Dial Indicator with Magnetic Base

### ALL96414

Dial indicator with magnetic base is a necessity when degreasing a camshaft, checking crankshaft end play, deck heights, dome heights, transmission end play, or ring and pinion backlash. Universal magnetic base may be mounted anywhere. Shockproof dial indicator has 1" of travel in .001" increments. Base and dial indicator may also be purchased separately.

**ALL96415**..... Dial Indicator Only  
**ALL96416**..... Magnetic Base Only



## Digital Calipers

### ALL96411

Measure inside, outside and depth dimensions with easy-to-read Metric or SAE LCD display, in .001" increments up to 6". On/off switch conserves battery and zero setting assures accurate readings. Plastic case provides additional battery storage.



## Dial Caliper ALL96410

Quality hardened stainless steel dial caliper is shockproof and capable of measuring items from .001" to 6" in increments of .001". Includes protective carrying case.



Carter Schlenk



Rusty Schlenk

## Ring and Pinion Gear Sets

Quality differential components are suitable for race, street, and off-road use. Lapped in matched sets for quiet operation.



### GM 7.5"

Sets t 10-bolt with 7.5" ring gear, 1.438" diameter pinion stem and 27-spline pinion.

Part No.	Ratio	Tooth	Part No.	Ratio	Tooth
<b>ALL70110*</b>	3.23	42-13	<b>ALL70115†</b>	3.73	41-11
<b>ALL70112*</b>	3.42	41-12	<b>ALL70116*</b>	4.10	41-10
<b>ALL70113†</b>	3.42	41-12	<b>ALL70117†</b>	4.10	41-10
<b>ALL70114*</b>	3.73	41-11	<b>ALL70118*</b>	4.56	41-9

\*Set includes standard width ring gear for use with 3.23 and numerically higher ratio carriers or when using 3.08 and numerically lower ratio carriers and ALL70100 spacer.

†Set includes thick ring gear for use with 3.08 and numerically lower ratio carriers.

### GM 8.5"

Sets t 10-bolt with 8.5" ring gear, 1.625" diameter pinion stem and 30-spline pinion.

Part No.	Ratio	Tooth	Part No.	Ratio	Tooth
<b>ALL70120</b>	3.08	40-13	<b>ALL70126</b>	4.10	41-10
<b>ALL70122</b>	3.42	41-12	<b>ALL70128</b>	4.56	41-9
<b>ALL70124</b>	3.73	41-11			

### Ford 9"

Sets t 10-bolt with 9" ring gear, 1.313" diameter pinion stem and 28-spline pinion.

Part No.	Ratio	Tooth	Part No.	Ratio	Tooth
<b>ALL70010</b>	3.50	35-10	<b>ALL70028</b>	5.14	36-7
<b>ALL70012</b>	3.70	37-10	<b>ALL70030</b>	5.29	37-7
<b>ALL70014</b>	3.89	35-9	<b>ALL70032</b>	5.43	38-7
<b>ALL70016</b>	4.11	37-9	<b>ALL70034</b>	5.67	34-6
<b>ALL70018</b>	4.33	39-9	<b>ALL70036</b>	5.83	35-6
<b>ALL70020</b>	4.56	41-9	<b>ALL70038</b>	6.00	30-5
<b>ALL70022</b>	4.71	33-7	<b>ALL70040</b>	6.20	31-5
<b>ALL70024</b>	4.86	34-7	<b>ALL70042</b>	6.33	38-6
<b>ALL70026</b>	5.00	30-6	<b>ALL70044</b>	6.50	39-6

## GM 7.5" Ring Gear Spacer ALL70100

Spacer allows installation of 3.23 and numerically higher ratio gear sets with standard thickness ring gears into 3.08 and numerically lower carriers. Steel spacer is .3125" thick and includes ten 7/16"-20 x 1-1/4" UHL LH bolts.



## Gear Marking Compound Kit ALL78250

Gear marking compound kit is a good way to identify correct gear contact area when installing or adjusting ring and pinion gear sets. Kit includes gear marking compound and application brush.







## Spools

Spools are substantially lighter than conventional cast iron carriers, and lock both rear axles together to deliver equal power to both rear wheels. Ultra-lite steel spools have more lightening holes and a narrower ring gear angle than standard units to help reduce rotating weight.



ALL68060

### Ford 9" Steel Spools

- ALL68060** .... 28-Spline, Scalloped, 7.5 lbs.
- ALL68062** .... 28-Spline, Ultra-Lite, 6.3 lbs.
- ALL68064** .... 31-Spline, Scalloped, 7.6 lbs.
- ALL68066** .... 31-Spline, Ultra-Lite, 6.1 lbs.
- ALL68067** .... 31-Spline, Ultra-Lite Scalloped, 5.8 lbs.
- ALL68070** .... 35-Spline, for 3.250" Case, 7.6 lbs.
- ALL68072** .... 35-Spline, for 2.893" or 3.062" Case, 7.9 lbs.
- ALL68074** .... 40-Spline, for 3.250" Case, 6.7 lbs.

### Quick Change Aluminum Spools

- ALL68114** .... Winters, Winters and DMI 31-Spline, 2.030" Bearings
- ALL68115** .... Frankland, Tiger and Richmond, 31-Spline, 2" Bearings

## Mini Spools

Mini spool assemblies replace the OE side and spider gears in open style carriers to provide equal traction to both axles. Mini spools are precisely machined for proper fit and heat treated for durability.



ALL68122

ALL68164

- 1957-87 Ford 9" Rear Ends with 3/4" Cross Pin
- 1981-94 Ford 8.8" Rear Ends with 28-Spline Axles
- 1976-88 GM 7.5" with 7.5" or 7.625" Ring Gear, 26-Spline Axles
- 1964-72 GM 10-Bolt with 8.2" Dia. Ring Gear, 28-Spline Axles
- 1970-76 GM 10-Bolt with 8.5" Dia. Ring Gear, 28-Spline Axles
- 1965-76 GM 12-Bolt with 8.875" Dia. Ring Gear, 30-Spline Axles

- ALL68121** .... Ford 9", (Lightweight) 28-Spline
- ALL68122** .... Ford 9", (Lightweight) 31-Spline
- ALL68166** † ... GM (7.5" Ring Gear), 26-Spline
- ALL68162** .... GM 10-Bolt (8.2" Ring Gear), 28-Spline
- ALL68160** .... GM 10-Bolt (8.5" Ring Gear), 28-Spline
- ALL68164** .... GM 12-Bolt (8.875" Ring Gear), 30-Spline

†There are at least three different 7.5" GM cases available, shimming may be required between the case and side gear of the spool to eliminate space between blocks



## Cross Pins

- ALL68120** .... Ford 8.8" and 9" (3/4")
- ALL68167** .... GM 10-Bolt (7.5" Ring Gear)
- ALL68163** .... GM 10-Bolt (8.2" Ring Gear)
- ALL68161** .... GM 10-Bolt (8.5" Ring Gear)
- ALL68165** .... GM 12-Bolt (8.875" Ring Gear)

## GM Axle C-Clips

Replacement C-clips for popular GM 10- and 12-bolt axles. Package of 2.



- ALL66120** .... 10-Bolt (7.5")
- ALL66121** .... 10-Bolt (8.5") and 12-Bolt (8.875")

## Ford 9" Housing Studs

### ALL72040

Studs secure the center section to the housing and are installed by pulling through with a nut for a press fit. 3/8"-24 threads. Package of 10.



## Ford 9" Gaskets

Gaskets are precision die-cut to ensure a leak free seal.



ALL72044

- ALL72044** .... Paper
- ALL72045** .... Composite with Steel Core

## Absorbent Mats

A must for the work shop and trailer. These handy absorbent mats have bonded layers, allowing fluid to spread quickly through material.



- ALL12030** .... 15" x 60" Roll (Perforated Every 10") Universal for All Fluid Types (Oil, Coolant, Water)
- ALL12031** .... 15" x 60" Roll (Perforated Every 10") for Oil Only
- ALL12032** .... 100-Pack (15" x 10" Individual Sheets) Universal for All Fluid Types (Oil, Coolant, Water)
- ALL12033** .... 100-Pack (15" x 10" Individual Sheets) for Oil Only



Tom Farrington



## Ford 9" Pinion Support ALL68396

"Daytona" forged aluminum pinion support replaces original equipment cast iron support. Support is furnished with races installed and is for use with 28-spline pinion gears.



## Pinion Seals

Replace leaking or damaged seals in most popular differentials.



- ALL72145**..... Quick Change 5/16" Wide
- ALL72144**..... Quick Change 1/2" Wide
- ALL72143**..... Quick Change 3/4" Wide
- ALL72146**..... Ford 9" Standard, 28-Spline, 3" O.D.
- ALL72147**..... 7.5" GM
- ALL72148**..... 8.5" GM

## Pinion Yokes



Part No.	Spline	U-Joint	Width	Cap Dia.	Material	Length
<b>Ford 9" Yokes</b>						
<b>ALL68375</b>	28	1310	3-1/4"	1.062"	Cast Steel	Standard
<b>ALL68376</b>	28	1330	3-5/8"	1.125"	Cast Steel	Standard
<b>ALL68377</b>	28	1330	3-5/8"	1.125"	Cast Steel	1" Longer
<b>ALL68380</b>	28	1350	3-5/8"	1.187"	Forged Steel	Standard
<b>ALL68382</b>	35	1350	3-5/8"	1.187"	Forged Steel	Standard
<b>Quick Change Yokes</b>						
<b>ALL68385</b>	10	1310	3-1/4"	1.062"	Cast Steel	Standard
<b>ALL68386</b>	10	1310	3-1/4"	1.062"	Cast Steel	1" Longer

## Billet Quick Change Pinion Yoke

### ALL68387

Billet steel pinion yoke offers superior strength over standard cast steel yokes. Yoke replaces most 10-spline quick change yokes and accepts 1310 series, 3-1/4" U-joint.



## Pinion Nuts

Replace original worn or damaged nuts each time a gear set is changed. Nut secures driveshaft yoke to pinion gear.



- ALL72155**..... Ford 8.8" and Standard 9"
- ALL72156**..... GM 7.5 And 8.5

## Pinion Yoke Wrench ALL68372

Wrench fastens to most popular pinion angles and companion angles to hold when setting bearing pre-load and tightening retaining bolt or nut.



## U-Joints

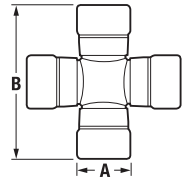
Performance U-joints are greasable and offer a variety of driveshaft combinations.



- 1310 Series:** 3.218" Wide with 1.062" Diameter Caps
- 1330 Series:** 3.622" Wide with 1.062" Diameter Caps
- 1350 Series:** 3.622" Wide with 1.187" Diameter Caps

## U-Joints with Same Cross Width

- ALL69030** .... 1310 Series
- ALL69031** .... 1330 Series
- ALL69032** .... 1350 Series



Width = B, Caps = A

## U-Joints with Different Cross Widths

- ALL69034** .... 1310 to 1330
- ALL69037\*** ... 1310 to 1330
- ALL69035** .... 1310 to 1350
- ALL69036** .... 1330 to 1350

\*Standard 1330 spread with larger 1.125" diameter caps.

## U-Bolt Kits

U-bolt kits for 1310, 1330 and 1350 series U-joints secure drive-shaft to pinion yoke. Sold in pairs with nuts and lock washers.



	U-Bolt	U-Joint Series	Cap	Thread	"A"	Stud CTC "B"
Std.	<b>ALL69015</b>	1310/1330	1-1/16"	5/16"-24	1-3/4"	1.400"
X-Long	<b>ALL69017</b>	1310/1330	1-1/16"	5/16"-24	2"	1.400"
Std.	<b>ALL69018</b>	1330†	1-1/8"	5/16"-24	1-7/8"	1.575"
Std.	<b>ALL69016</b>	1350	1-3/16"	3/8"-24	2"	1.625"

†1330 with big caps (1.125")

## GM U-Joint Strap Kit

### ALL69014

Replacement O.E. style U-joint strap kit fits popular GM pinion yokes including 7.5", 8.2", and 8.5" 10-bolt and other popular rear ends. Kit is designed for 1-1/8" (1.125") diameter caps and includes (2) 5/8" wide steel straps with 1-7/8" CTC holes and (4) 1-1/2" long 5/16"-24 grade 8 bolts.



## Ford 9" U-Joint Girdle Kit

### ALL69025

Aluminum U-joint girdles replace standard steel U-bolts and provide more surface clamping area for 1310 and 1330 (1-1/16") U-joint caps. Girdle design helps prevent over-tightening and includes mounting hardware.







## Slip Yokes

Slip yokes provide an important link in today's driveline and chassis combinations. Yokes are available in standard lengths for most street applications with minimal suspension travel to extra-long for racing suspensions that have a radical amount of travel. 27-spline yokes accept 1310 style U-joints and are for use in many popular transmissions including TH350, TH700R4, Muncie and Saginaw 3 and 4 speeds, Bert, and Brinn non-ball spline.

- ALL69040** .... 6"
- ALL69042** .... 6-3/4"
- ALL69044** .... 7-1/2"
- ALL69046** .... 8"
- ALL69048** .... 8" (Extra Clearance)

### Hardened

- ALL69043** .... 6-3/4"
- ALL69045** .... 7-1/2"
- ALL69047** .... 8"



## Tailshaft Seal and Bushing

The tailshaft bushing is a regular wear item, located inside the transmission tailshaft housing. It should be replaced when replacing the tailshaft seal or when a driveshaft failure has occurred. A worn bushing will cause excessive side-to-side movement of the slip yoke and create a vibration or leak. Replacement bushing and seal fits GM Powerglide, Turbo 350, Saginaw, Muncie, Bert, and Brinn transmissions.



ALL72152

- ALL72150**..... Seal
- ALL72152**..... Seal with Bushing



Corey Day

## Universal Driveshaft Loop

**ALL69000**

Universal driveshaft loop contains the driveshaft if a yoke or U-joint fails. Loop is 1/4" thick x 2" wide mild steel and fully adjustable to fit most cars.



## Driveshaft Loop for 1979-2004 Mustangs

**ALL69006**

Driveshaft safety loop bolts-on to help retain the front of the driveshaft in the event of a U-joint or other drivetrain component breakage. Black epoxy coated, all steel loop includes mounting hardware and complete instructions. Loop is designed to fit inside factory tunnel and work with most driveshafts up to 4" in diameter.



## Unwelded Driveshaft Loop

**ALL69004**

Made from 3/16" flat steel, loop is 9-1/2" tall, 5-1/2" wide with a 16" wide mounting strap that can be cut and welded for each installation.



## 180° Driveshaft Loop

**ALL69002**

Pre-bent 1" diameter x .083" wall mild steel tubing is designed for chassis style cars to help retain the driveshaft in the event of a U-joint failure. Loop is 10" tall overall and has a 5" I.D.



## Torque Tube Belt

**ALL10181**

Universal strap keeps torque tube stabilized and centered in case of coupler or tube failure. Black 3" wide belt fits all torque tube and chassis combinations.



## Torque Ball Safety Blanket

**ALL55220**

Fire-resistant safety blanket designed by Jason Meyers Racing protects drivers legs and feet in the event of a U-joint failure. Ballistic nylon covered blanket weighs just 1-1/2 lbs. and has quick release adjustable straps that allow blanket to be removed easily for servicing torque ball and U-joint. Blanket includes two mounting brackets, mounting studs, nuts and installation instructions.



### Replacement Components

- ALL55224** .... 3/8" Mounting Stud Kit
- ALL55226** .... Mounting Tabs, 1-Pair





### Drain Pan **ALL40112**

Round drain pan has molded-in handles and pour spout. Made from chemical and solvent-resistant plastic. 13-1/2" x 11" x 4", 7-quart capacity.



### Aluminum Quick Change Drain Pan **ALL14166**

Aluminum drain pan is handy when changing quick change gears. Built-in perforated shelf holds gears and allows lube to drain into pan. Pan is 10-1/4" wide, 12" long, and 3-3/4" deep.



### Drain Plug Kits

Drain plug kits include a machined weld-on bung that has a step added to fit inside a drilled hole for easy installation. Kits are perfect when adding drain plugs to oil pans, rear end housings, dry sump tanks, etc.



Size	Aluminum Bung	Steel Bung
3/8"NPT	<b>ALL50732</b>	<b>ALL50733</b>
1/2"NPT	<b>ALL50734</b>	<b>ALL50735</b>

### Combo Remote Fill Tank **ALL36134**

Aluminum fill tank features a pre-drilled 4-1/2" square mounting flange for securing tank to the underside of deck panel providing an easy access location for rear end/differential, transmission, power steering or dry sump tank. Tank has a raised non-vented cap and a -10AN male lower hose fitting. Tank also has a 3/8" NPT side port for a return or vent and a separate 1/4" NPT fitting with an integrated foam filter for an additional vent.



### Fill Line Kit for Transmissions and Rear Ends **ALL36148**

Kit includes the components to build a fill hose for attaching remote fill tanks with a -10AN outlet to transmission or rear end. Kit includes a 3-ft. length of flexible braided fabric hose and two -10AN hose ends, one straight -10AN fitting for connecting hose to breather tank and a 90° -10AN fitting with a -10AN to 1/2" NPT adapter for attaching to rear end or transmission. Additional adapter fittings may be required and are sold separately.



### Remote Fill Tanks

Aluminum tanks feature a 5-3/8" mounting flange to mount in a deck panel or other flat horizontal panel, providing an easy access location for rear end/differentials, transmissions or dry sump tanks. Tanks have a raised, vented twist on cap and a -10AN male hose connection. Overall tank height is 9" x 3" in diameter.



ALL36111

- ALL36110** ..... Fill Tank
- ALL36111** ..... Fill Tank with 3/8"NPT Bung
- ALL36124** ..... Replacement Cap

### Mini Breather Tanks

Small capacity, aluminum tank will vent dry sump tank, transmission, or rear end. Tank measures 6-3/4" overall, features a 1/4" NPT bung on bottom for connecting a vent hose and includes a washable breather element. Tanks are offered with a clamp style bracket for mounting to chassis tubing, or a flat mount for mounting to a panel or firewall.



- ALL36140** ..... Tank for 1-1/2" Dia. Tubing
- ALL36141** ..... Tank for 1-3/4" Dia. Tubing
- ALL36142** ..... Tank with Flat Mount

### Mini Breather **ALL36145**

Compact breather mounts in a deck or bracket with a 7/16" hole and has a -4AN male end making it ideal for venting transmissions or rear ends.



### Clamp-On Mini Breathers

Breathers mount easily to either 1-1/2" or 1-3/4" tubing. Breathers are 1" tall and 1-3/8" in diameter. Great for use on transmissions, differentials, etc. Bottom fitting is 1/4"NPT. Black anodized finish.



- ALL36106** .... Breather for 1-1/2" Tubing
- ALL36107** ..... Breather for 1-3/4" Tubing
- ALL36103** .... Replacement Filter Only

### Breather Element

Breather elements work well for venting components including transmissions and differentials and feature a fitting for attaching hose. Breathers are 2" in diameter and feature a pre-oiled cotton inner material that may be washed and re-oiled. Size listed is O.D. of hose fitting.



- ALL36212** ..... 3/8"
- ALL36213** ..... 1/2"
- ALL36216** ..... 3/8" w/ Mounting Stud
- ALL36217** ..... 1/2" w/ Mounting Stud

REAR ENDS AND AXLES



## Single-Layer Driving Suits

Suits are constructed of a single layer of Pyrovatex flame-retardant cotton material which offers a high level of heat and flame protection along with durability and comfort to meet the requirements of the SFI 3.2A/1 rating. Suits have many features including multi-needle overlock stitching design for exceptional seam strength, two-way brass Nomex-backed zipper with a double overlap for a secure front opening, two-piece belt, internally attached side pockets, and boot-cut pant legs with internal elastic cuffs.



Size	Black	Blue	Red
Small	ALL931011	ALL931021	ALL931071
Medium	ALL931012	ALL931022	ALL931072
Medium Tall	ALL931013	ALL931023	ALL931073
Large	ALL931014	ALL931024	ALL931074
X-Large	ALL931015	ALL931025	ALL931075
XX-Large	ALL931016	ALL931026	ALL931076
XXX-Large	ALL931017	ALL931027	ALL931077

## Multi-Layer Driving Suits

Suits are constructed of a Pyrovatex outer layer backed by a layer of flame-retardant Aramid material then lined with an additional layer of Pyrovatex flame-retardant cotton material which offers a high level of heat and flame protection along with durability and comfort to meet the requirements of the SFI 3.2A/5 rating. Suits have many features including multi-needle overlock stitching design for exceptional seam strength, two-way brass Nomex-backed zipper with a double overlap for a secure front opening, two-piece belt, internally attached side pockets, and boot-cut pant legs with internal elastic cuffs.

Size	Black	Blue	Red
Small	ALL935011	-	-
Medium	ALL935012	ALL935022	ALL935072
Medium Tall	ALL935013	ALL935023	ALL935073
Large	ALL935014	ALL935024	ALL935074
X-Large	ALL935015	ALL935025	ALL935075
XX-Large	ALL935016	ALL935026	ALL935076
XXX-Large	ALL935017	-	-

## Single-Layer Driving Jackets

Jackets are constructed of a single layer of Pyrovatex flame-retardant cotton material which offers a high level of heat and flame protection along with durability and comfort to meet the requirements of the SFI 3.2A/1 rating. Jackets have many features including multi-needle overlock stitching design for exceptional seam strength and a two-way brass Nomex-backed zipper with a double overlap for a secure front opening.



Size	Black	Blue	Red
Small	ALL931111	ALL931121	ALL931171
Medium	ALL931112	ALL931122	ALL931172
Medium Tall	ALL931113	-	-
Large	ALL931114	ALL931124	ALL931174
X-Large	ALL931115	ALL931125	ALL931175
XX-Large	ALL931116	ALL931126	ALL931176
XXX-Large	ALL931117	ALL931127	ALL931177

## Multi-Layer Driving Jackets

Jackets are constructed of a Pyrovatex outer layer backed by a layer of flame-retardant Aramid material then lined with an additional layer of Pyrovatex flame-retardant cotton material which offers a high level of heat and flame protection along with durability and comfort to meet the requirements of the SFI 3.2A/5 rating. Jackets have many features including multi-needle overlock stitching design for exceptional seam strength and a two-way brass Nomex-backed zipper with a double overlap for a secure front opening.



Size	Black	Blue	Red
Small	ALL935111	ALL935121	ALL935171
Medium	ALL935112	ALL935122	ALL935172
Medium Tall	ALL935113	-	-
Large	ALL935114	ALL935124	ALL935174
X-Large	ALL935115	ALL935125	ALL935175
XX-Large	ALL935116	ALL935126	ALL935176
XXX-Large	ALL935117	ALL935127	ALL935177

## Single-Layer Driving Pants

Pants are constructed of a single layer of Pyrovatex flame-retardant cotton material which offers a high level of heat and flame protection along with durability and comfort to meet the requirements of the SFI 3.2A/1 rating. Pants feature multi-needle overlock stitching design for exceptional seam strength, a button style closure, a brass Nomex-backed zipper with a double overlap for a secure front opening, elastic waistband, internally attached side pockets, and boot-cut pant legs with internal elastic cuffs.



Size	Black
Small	ALL931211
Medium	ALL931212
Medium Tall	ALL931213
Large	ALL931214
X-Large	ALL931215
XX-Large	ALL931216
XXX-Large	ALL931217

## Multi-Layer Driving Pants

Pants are constructed of a Pyrovatex outer layer backed by a layer of flame-retardant Aramid material then lined with an additional layer of Pyrovatex flame-retardant cotton material which offers a high level of heat and flame protection along with durability and comfort to meet the requirements of the SFI 3.2A/5 rating. Pants feature multi-needle overlock stitching design for exceptional seam strength, a button style closure, a brass Nomex-backed zipper with a double overlap for a secure front opening, elastic waistband, internally attached side pockets, and boot-cut pant legs with internal elastic cuffs.



Size	Black	Size	Black
Small	ALL935211	X-Large	ALL935215
Medium	ALL935212	XX-Large	ALL935216
Medium Tall	ALL935213	XXX-Large	ALL935217
Large	ALL935214		



## Suit Sizing Chart

	Medium		X	2X	3X	
	Small	Medium	Tall	Large	Large	Large
<b>Height</b>						
5'6"-5'8"	5'8"-5'10"	5'10"-6"	5'10"-6"	6'-6'2"	6'2"-6'4"	6'4"-6'6"
<b>Weight</b>						
125 -140	140-165	150-175	165-195	200-225	225-250	250+
<b>Waist</b>						
30-32"	34-36"	34-36"	36-38"	40-42"	44-46"	48-52"
<b>Chest</b>						
34-36"	38-40"	38-40"	42-44"	46-48"	50-52"	54-56"
<b>Inseam</b>						
28"	29"	30"	31"	32"	33"	33"
<b>Shoulders</b>						
17"	18"	18"	19"	20"	21"	23"
<b>Sleeve</b>						
31-32"	33-34"	33-34"	34-35"	36"	37"	38"
<b>Neck</b>						
14"	14.5"	14.5"	15.16"	16"	17-18"	18"

Waist: At natural waist at navel (not hips where your jeans ride)

Chest: Circumference at the widest part

Inseam: Crotch seam to ankle bone

Shoulder to Shoulder: Shirt shoulder seam to shirt shoulder seam

Sleeve: Back base of neck to wrist, elbow bent

## Single-Layer Non-SFI Outseam Driving Gloves

**NEW COLORS**

Reverse seam style gloves are created from a single layer of flame-retardant Aramid material blend that features the seam located on the outer portion of the glove for improved driver feel and comfort. The palm and finger pads feature an anti-slip silicone material for improved grip.



Note: Even though these gloves are constructed of a flame-retardant Aramid material, they are not SFI certified and do not feature an SFI approved label.

Size	Black	Orange	Yellow
Small	ALL913011	ALL913041	ALL913091
Medium	ALL913012	ALL913042	ALL913092
Large	ALL913014	ALL913044	ALL913094
X-Large	ALL913015	ALL913045	ALL913095

## Double-Layer SFI 3.3/5 Outseam Driving Gloves

**NEW COLORS**

Reverse seam style gloves are created from two layers of flame-retardant Aramid material blend that features the seam located on the outer portion of the glove for improved driver feel and comfort. These gloves also feature an anti-slip silicone material located on the palm and finger pads for improved grip, gauntlet style cuffs, and include an SFI 3.3/5 certified label on each glove.



Size	Black	Orange	Yellow
Small	ALL916011	ALL916041	ALL916091
Medium	ALL916012	ALL916042	ALL916092
Large	ALL916014	ALL916044	ALL916094
X-Large	ALL916015	ALL916045	ALL916095
XX-Large	ALL916016	-	-

## Single-Layer Non-SFI Driving Gloves

Traditional style gloves are created from a single layer of flame-retardant Aramid material blend that features a white leather reinforced palm and finger area for improved grip that meets the requirements of many racing organizations.



Note: Even though these gloves are constructed of a flame-retardant Aramid material, they are not SFI certified and do not feature an SFI approved label.

Size	Part No.
Small	ALL910011
Medium	ALL910012
Large	ALL910014
X-Large	ALL910015

## Single-Layer SFI 3.3/1 Driving Gloves

Traditional style gloves are created from a single layer of flame-retardant Aramid material blend that features a gray suede leather palm and finger area for improved grip. These gloves also feature gauntlet style cuffs, adjustable wrist straps and includes an SFI 3.3/1 certified label on each glove.



Size	Part No.
Small	ALL911011
Medium	ALL911012
Large	ALL911014
X-Large	ALL911015

## Double-Layer SFI 3.3/5 Driving Gloves

Traditional style gloves are created from two layers of flame-retardant Aramid material blend that features a black suede leather palm and finger area for improved grip. These gloves also feature gauntlet style cuffs, adjustable wrist straps and include an SFI 3.3/5 certified label on each glove.



Size	Black	Blue	Red
Small	ALL915011	ALL915021	ALL915071
Medium	ALL915012	ALL915022	ALL915072
Large	ALL915014	ALL915024	ALL915074
X-Large	ALL915015	ALL915025	ALL915075
XX-Large	ALL915016	-	-





## SFI 3.3 Underwear **NEW**

Underwear is knit from a blend of lightweight Aramid and flame-retardant cotton material to achieve a durable, comfortable flame-retardant garment. SFI 3.3 rated underwear is machine washable and will maintain shape with washing.

### Tops

Tops feature a long sleeve design with an elastic cuff and a taller “mock turtle neck” style collar.

ALL926110	X-Small
ALL926111	Small
ALL926112	Medium
ALL926114	Large
ALL926115	X-Large
ALL926116	XX-Large
ALL926117	XXX-Large
ALL926118	XXXX-Large
ALL926119	XXXXX-Large



### Bottoms

Bottoms feature an elastic waistband and cuff style leg bottoms to keep them in place.

ALL926210	X-Small
ALL926211	Small
ALL926212	Medium
ALL926214	Large
ALL926215	X-Large
ALL926216	XX-Large
ALL926217	XXX-Large
ALL926218	XXXX-Large
ALL926219	XXXXX-Large



## SFI 3.3 Driving Socks

Socks are a knit blend of flame-retardant cotton and Aramid material to offer outstanding moisture wicking properties. Socks are sold in pairs and include an SFI 3.3 certified label on each sock.

Size	Part No.
6-7	ALL926011
8-9	ALL926012
10-11	ALL926014
12-14	ALL926015



## SFI 3.3 Thick Driving Socks **NEW**

These socks are an extra thick version of our standard driving socks for added comfort. Socks are a knit blend of flame-retardant cotton and Aramid material to offer outstanding moisture wicking properties. Socks are sold in pairs and include an SFI 3.3 certified label on each sock.

Size	Part No.
6-7	ALL926411
8-9	ALL926412
10-11	ALL926414
12-14	ALL926415



## Mid-Top SFI 3.3/5 Driving Shoes

Mid-top driving shoes feature a suede outer layer with a Pyrovatex flame-retardant cotton material inner liner which offers a high level of heat and flame protection. Shoes have many features including reinforced lace, toe and heel area, soft molded rubber sole that wraps up the back of the shoe and an internal arch support not found in many other driving shoes. Shoes are SFI 3.3/5 certified, and sizes listed are men's sizes.



Size	Part No.	Size	Part No.
7	ALL919070	11	ALL919110
8	ALL919080	11-1/2	ALL919115
9	ALL919090	12	ALL919120
9-1/2	ALL919095	13	ALL919130
10	ALL919100	14	ALL919140
10-1/2	ALL919105		

## Pro-Series Mid-Top SFI 3.3/5 Driving Shoes **NEW**

The Pro-Series shoes have the same outstanding features as our standard driving shoes with a thinner sole to offer a better pedal feel. Additional features include a mid-top design with a suede outer layer and a Pyrovatex flame-retardant cotton material inner liner which offers a high level of heat and flame protection. Shoes also include a reinforced lace, toe and heel area, soft molded rubber sole that wraps up the back of the shoe and an internal arch support not found in many other driving shoes. Shoes are SFI 3.3/5 certified, and sizes listed are men's sizes.



Size	Black	Black/Blue	Black/Red
7	ALL918122	ALL918222	ALL918722
8	ALL918124	ALL918224	ALL918724
8.5	ALL918125	-	-
9	ALL918126	ALL918226	ALL918726
9-1/2	ALL918127	ALL918227	ALL918727
10	ALL918128	ALL918228	ALL918728
10-1/2	ALL918129	ALL918229	ALL918729
11	ALL918130	ALL918230	ALL918730
11-1/2	ALL918131	ALL918231	ALL918731
12	ALL918132	ALL918232	ALL918732
12-1/2	ALL918133	-	-
13	ALL918134	ALL918234	ALL918734



## Helmet Supports

Helmet Supports or neck collars are designed to reduce the impact of the helmet contacting your shoulders, collar bones and chest. Supports have a woven flame-retardant covering over a flame-retardant tapered high-density foam material which offers a full 360° support.



Non SFI		SFI	
Size	Part No.	Size	Part No.
Large 17"	<b>ALL920014</b>	JR/Youth 14"	<b>ALL921011</b>
		Large 17"	<b>ALL921014</b>
		X-Large 19"	<b>ALL921015</b>

## Single-Eyeport SFI 3.3 Head Socks

Head socks or hoods are a knit blend of flame-retardant cotton and Aramid material to offer outstanding moisture wicking properties for comfort and safety to be SFI 3.3 certified. These hoods are designed with reverse seams that are flat sewn on the outside and arranged to avoid pressure points and promote comfort.



**ALL923114**... Single-Layer  
**ALL923214**... Double-Layer

## Helmet Skirts

Helmet skirts fasten to the outside of the helmet and drape over the neck and shoulder area to protect the open area under the helmet. Skirts are made of a knit blend of flame-retardant cotton and Aramid material and include a hook-and-loop tape to attach along the bottom of the helmet.



**ALL929010** .. Single-Layer Non-SFI  
**ALL929313** .. Multi-Layer SFI 3.3/5

## Arm Restraints **NEW**

Arm restraints are often used by racers of open cockpit cars or when running topless specials. The SFI 3.3 rated arm restraints are manufactured using high quality steel hardware and premium webbing. The 2" wide cuffs have adjustable hook and loop closures to secure around the arms with attachment points for the removable snap hooks. The 1" wide Y-tether features a 2" steel ring on the end designed to slide over the shoulder harness belt end-link to secure and release with your belts.



<b>ALL991212</b>	Youth
<b>ALL991312</b>	Adult

## Helmet Hooks

Aluminum hook clamps on roll cage tubing and provides an anchor for attaching helmet strap.

**ALL10228**..... 1-1/2"  
**ALL10229**..... 1-3/4"  
**ALL10445**..... Reducer Bushing 1-3/4" to 1-5/8"



## Universal Helmet Hook **ALL10223**

Universal steel helmet hook is 1/8" thick and has a radius mount for attaching to round tubing. Hook may be welded on or clamped to tube with a standard hose clamp.

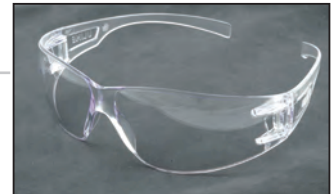
## Helmet Dryer **ALL13018**

Dryer is a tabletop unit that circulates air throughout the inside of a helmet to remove moisture that commonly leads to dangerous mold and bacteria growth. Dryer base measures 11" x 13" and includes a removable clip to fasten a dryer sheet to help freshen the inside of the helmet. Unit connects to a 110V power source and features a cord-mounted on/off switch.



## Safety Glasses

**ALL10258**  
 Comfortable, lightweight, general purpose safety glasses have a clear wrap around lens for maximum visibility. ANSI-Z87.1 rated.



## Reusable Corded Earplugs

**ALL12000**  
 Corded earplugs fit instantly without rolling or squeezing. Made of a soft material that cleans up easily in warm, soapy water.



Nick Hoffman





## Tear-Off Machine



Electric Tear-Off machine will quickly provide clear vision with the simple push of a button. Lightweight unit mounts to your shield and includes two 50-foot rolls of clear film (equal to 65 standard tear offs), sealed aluminum motor housing, quick disconnects, and velcro. Works with 12- and 16-volt systems. Choose installation kit with steering wheel- or dash-mount button, sold separately.

- ALL13104** ..... Electric Tear Off Machine
- ALL13106** ..... Install Kit, Vehicle Harness & Steering Wheel Button
- ALL13107** ..... Install Kit, Vehicle Harness & Dash Mount Button
- ALL13108** ..... Replacement Rolls of Film (2-Pack)
- ALL13109** ..... Replacement Vehicle Harness

## Locking Tear Off Post Kit

**ALL13100**

Unique aluminum tear off posts have a second set-screw locking the posts to the shield so they don't continually come loose. No need to remove shield just to tighten the tear off post! Package of 2.



## Mini Helmet Air System

**ALL13012**

Self-contained, 12-volt fan with reusable filter moves approximately 40-60 CFM of air depending on system voltage. An RF connector allows easy, unrestricted helmet removal. A 14" wire is permanently attached to the fan and accepts the 24" pigtail (included). Pigtail has simple red (+) and black (-) wire hook-ups.



## Helmet Blower System

Remote mount breather system directs filtered, forced air to the driver's helmet for added comfort and safety. Motor assembly has a mounting bracket for easy mounting to chassis or seat back. 4' helmet hose connects to most helmet fresh air intakes with standard 1-1/4" connector. The 9' extension lead can be easily connected to a switched 12-16 volt source. This system weighs 2-1/4 lbs, draws 3.5 amps at 13.6 volts, and produces about 90 CFM of air to the driver, providing more than enough air to keep the driver cool and shield clear.



- ALL13020** ..... Silver
- ALL13022** ..... Black

## Replacement Components

- ALL36202** .... Filter
- ALL36203** .... Filter with Shield
- ALL99021** .... Wire Harness

## Helmet Fan **ALL13011**

Compact inline blower fan connects to 1-1/4" helmet hose and forces air inside driver's helmets equipped with an air inlet to help prevent shield fogging and provide air movement. Fan produces 20+ CFM of airflow when used on a 12V system, drawing only 1.3 amps. Two-wire pigtail easily connects to a switched 12V power source and a suitable chassis ground.



## Hose Adapter **ALL13007**

Adapter fits most helmet hoses with 1-1/4" ends and has a 2-3/4" O.D. to fit inside 3" duct style hose or inside some NACA ducts. Adapter may also be mounted in a window opening to funnel air directly to the driver via helmet hose.



Brandon Sheppard



Steve Arpin

SAFETY / DRIVER EQUIPMENT





### Inside Air Blower Motor **ALL13000**

Inside air unit is commonly mounted inside the cockpit or decking to provide forced, filtered air to the driver for cooling and to help prevent shield fogging. Spun aluminum cover prevents damage to filter assembly. Motor has two speeds and is recommended for 12-volt systems.



#### Replacement Components

**ALL13014** ..... Filter

**ALL99023** .... Top

### Outside Air Blower Motor **ALL13001**

Outside air unit is commonly mounted inside the driver compartment on vehicles with windows or closed compartment to provide forced, filtered air to the driver for cooling and to help prevent shield fogging. Intake top can be used with 1-1/4" helmet hose or trimmed to accept larger 3" hose, such as ALL42150, routed to the motor from outside of the car or fastened to a plastic duct, such as ALL42143, for fresh air. Motor has two speeds and is recommended for 12-volt systems.



#### Replacement Components

**ALL13014** ..... Filter

**ALL99022** .... Top

### Helmet Vent Hose

Hose is 4' long and used to complete the connection between a driver air system and helmets equipped with a 1-1/4" barbed intake port. Two styles are available: ALL13004 is gray and constructed from a denser material to resist crushing and abrasions from rocks and debris; ALL13021 is black and constructed of a thinner more pliable material which is less restrictive to the driver.



**ALL13004** ..... Gray

**ALL13021** ..... Black

### Helmet Vent **ALL13025**

High-impact, screened ABS vent minimizes the chance of rocks and other debris from entering helmet hose. Vent has a 1/2" wide mounting angle and a centered outlet that accepts most 1-1/4" helmet hoses.



### Radio Boxes



ALL10441

ALL10439

Aluminum radio boxes have a removable padded insert to absorb vibration and measures 5" tall x 3-3/4" wide x 2-1/2" deep.

**ALL10439** ..... Flat Mount

**ALL10441** ..... 1-3/4" Mount

### Reducer Bushing

**1-3/4" to 1-5/8" ALL10445**

Reducer works with most clamp-on style brackets or accessories with 1/4" thick mounts including Allstar radio boxes, drink bottle kits, helmet hooks, and universal brackets.



### Drink Bottle Kit

Mount the drink bottle within driver's reach for a convenient spot to keep a drink. Great for circle track drivers during pit stops or yellow flags. Lightweight aluminum holder comes with replaceable insulated bottle.

**ALL10475** ..... 1-1/2"

**ALL10480** ..... 1-3/4"

**ALL10445** ..... Reducer Bushing 1-3/4" to 1-5/8"

**ALL10482** ..... Replacement Bottle



Tim Curry

SAFETY / DRIVER EQUIPMENT

## Camera Mount

**ALL10446**

Clamp-on camera mount for securely mounting Go Pro style cameras. Mount includes inserts for 1" and 1-1/2" round tubing and includes foam inserts for use with 1-1/4" round tubing. High-density thermoplastic construction features an aluminum base and stainless-steel pivot ball that rotates 360° to provide an infinite number of mounting options and a knurled thumbscrew for easy camera removal.



**NEW**

## Convex Mirrors

Convex mirrors have a curved face to view a wider area which is ideal for keeping an eye on the competition. Mirrors have built-in mounting tabs with 1/4"-20 threaded inserts for convenient mounting. Universal brackets ALL10452-10454 are commonly used when mounting mirrors to round tubing such as roll cages.



**ALL76406** ..... 14" x 2-1/2"

**ALL76407** ..... 17" x 3"

## Panel Mirrors

Panel mirrors offer greater viewing capabilities than standard mirrors to help eliminate blind spots. Durable ABS construction makes these mirrors suitable for many types of motorsports. Mounting brackets and hardware included.

**ALL76404**..... Four Panel, 27-3/4" Long

**ALL76405**..... Five Panel, 34-3/4" Long

## Side View Mirror

**ALL76409**

Aerodynamic 3" diameter mirror quickly and easily mounts to roll cage tubing and includes a 1-1/2" stainless clamp. High strength ABS plastic housing with a scratch resistant polycarbonate lens makes this mirror suitable for a variety of motorsports, but most commonly used on Asphalt Late Models. Adjustable mirror lens pivots in the housing for optimum driver visibility.



## Swan Neck Mirrors

**ALL76400**

Beautiful exterior rear view mirrors have a 4" diameter stainless steel head and a 5" long chrome arm. Mounting is blind with one bolt. Sold in pairs.



## 4" Peep Mirrors

**ALL76401**

Chrome Peep mirrors have a 4" stainless steel head and can be slipped over the top edge of driver and passenger side doors and secured with Allen head screws. Arm pivots 360° to any position and has a crowned end to lock in the desired position. Includes protective rubber pads. Sold in pairs.



## Molded Steering Wheel Pad

**ALL52322**

Molded pads fit at or dished 3-spoke steering wheels. Velcro straps are permanently secured to pad for quick installation.



## Steering Wheel Pad **ALL52320**

Black vinyl-covered pad fastens to most three spoke racing steering wheels with three hook/loop straps. 5-3/4" diameter foam pad is 2" thick.



## Steering Wheel Hook **NEW**

**ALL10227**

Aluminum hook clamps to 1-3/4" roll cage tubing and provides an anchor for hanging your steering wheel when not in use.



## Reducer Bushing

**1-3/4" to 1-5/8" ALL10445**

Reducer works with most clamp-on style brackets or accessories with 1/4" thick mounts including Allstar radio boxes, drink bottle kits, helmet hooks, and universal brackets.





## Two-Point Non-Retractable Seat Belts

Two-point, non-retractable lap belt is manually tightened and mounts to two points on the vehicle floor. Belts feature an easy push-button release and are sold individually. Installation hardware kits sold separately.



- ALL98110**..... Black
- ALL98111**..... Gray
- ALL98112**..... Charcoal
- ALL98113**..... Tan

### Related Components

- ALL98120**..... Anchor Plates, 1-Pair
- ALL98121**..... Installation Hardware Kit



## Three-Point Retractable Seat Belts

Three-point retractable system has three anchoring points, two on the vehicle floor and one on the B-pillar. Belts feature an easy push-button release and are sold each. Installation hardware kits sold separately.



- ALL98115**..... Black
- ALL98116**..... Gray
- ALL98117**..... Charcoal
- ALL98118**..... Tan

### Related Component

- ALL98120**..... Anchor Plates, 1-Pair
- ALL98121**..... Installation Hardware Kit



## Seat Belt Anchors **ALL98120**

Anchor plates reinforce stock type floor pan when mounting seat belts. Plates are 1/8" thick and have a 9/16" mounting hole. Package of 2.



ALL98121

## Seat Track Assembly

### **ALL98100**

Mount aftermarket seats quickly and easily. Includes two seat tracks, adjustment handle and hardware.



## Bolt-In Lower Seat Mount Brackets

### **ALL98130**

Seat brackets are constructed of 3/16" aluminum and designed to fasten an aluminum racing seat to a reinforced stock type floor pan. Additional floor reinforcements recommended as required per sanctioning body rules.



## Quick-Release Fire Extinguisher Bracket

### **ALL10510**

Bracket keeps fire extinguisher secure and allows quick access by pulling pin. Bracket mounts most 2-1/2 lb. extinguishers with an O.D. up to 3-1/2" to round tubing with supplied clamps or fastens to a flat panel including trailer or shop walls.



## Quick-Release NHRA Fire Extinguisher Brackets

NHRA approved bracket keeps fire extinguisher secure and allows quick access by pulling pin. Bracket mounts most 2-1/2 lb. extinguishers to 1-1/2"-1-3/4" round tubing with supplied 3/4" wide stainless T-bolt bands or fastens to a flat panel.



AL10513

- ALL10512**..... Bracket for 3" O.D. Extinguisher

- ALL10513**..... Bracket for 3-3/8" O.D. Extinguisher



## Shifter Boot **ALL54130**

Fire-resistant, black, thermal boot helps prevent fire from entering driver compartment. Boot is 7" tall with Velcro strap closure at top. Base is 6" x 7". Used by many top Cup, Xfinity, Truck, CRA, and Late Model teams.



## Sprint Knee Guard **ALL55230**

Ultra light aluminum knee guard designed by Jason Meyers Racing works great for protecting knees from banging against 1/2 box steering gears and provides a comfortable leg support when throttling through corners. Fire retardant, high-impact, dense rubber padding is covered with self-extinguishing cloth for added safety. Guard fastens to the half box mount (not the box) by drilling and bolting or riveting and is held in place with safety wire or a wire tie.





## Roll Bar Padding

Padding is made of a closed-cell foam material that does not absorb moisture and progressively absorbs shock by becoming denser as it compresses. 36" long padding features a 3" O.D. with an offset inside diameter that is designed to install with the thicker side of padding toward the driver and a perforated seam to make installation easier.



Color	Single	Box of 3pcs <b>NEW</b>	Case (48pcs)
Black	<b>ALL14100</b>	<b>ALL14100-3</b>	<b>ALL14100-48</b>
Red	<b>ALL14101</b>	<b>ALL14101-3</b>	<b>ALL14101-48</b>
Blue	<b>ALL14102</b>	<b>ALL14102-3</b>	<b>ALL14102-48</b>
Orange	<b>ALL14103</b>	<b>ALL14103-3</b>	<b>ALL14103-48</b>
Yellow	<b>ALL14104</b>	<b>ALL14104-3</b>	<b>ALL14104-48</b>
Gray	<b>ALL14105</b>	<b>ALL14105-3</b>	<b>ALL14105-48</b>
Purple	<b>ALL14106</b>	<b>ALL14106-3</b>	<b>ALL14106-48</b>

## SFI Mini Roll Bar Padding

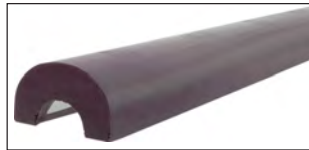
### ALL14112

Mini roll bar padding is ideal for tight areas in a race car when standard padding is too large. Unique, compact design provides driver protection to a specific area. Peel-and-stick backing for easy installation on 1-1/4" to 1-3/4" tubing. Meets SFI 45.1 specifications. Sold in 3' lengths, black only.



## SFI Roll Bar Padding

Provides 180° coverage where space concerns are not a problem. Peel-and-stick backing for easy installation. Meets SFI 45.1 specifications. Choose from two sizes, each 3' long, black only.



**ALL14110**..... 1-1/8" to 1-1/2" O.D. Tubing

**ALL14111**..... 1-5/8" to 2" O.D. Tubing

## Door Bar Padding

### ALL14115

Closed cell padding adds protection from hard surfaces inside a race car. Cover door bars, seat supports, or increase padding in seat for comfort. Sold in 36" x 48" sheets, 3/4" thick.



## Door Bar Clamp ALL14198

Clamp fastens around a 1-1/2" door bar, allowing a steel door plate to be mounted to the outside of the door bar area. Clamp eliminates the need to weld mounting tabs or door plate directly to a finished chassis. Sold each and includes 1/2" mounting hardware.



### Related Components

**ALL54070** .... 18" x 26" Steel Plate

**ALL54071** ... 24" x 24" Steel Plate

**ALL54072** ... 24" x 36" Steel Plate



## Window Net Installation Kits

### Latch Type Round Tube ALL10217



Lever latch release has a 3/8" round upper support rod for use with border and loop style nets. Mounting brackets are included.

### Latch Type Flat Bar ALL10218



Lever latch release has a 1" x 1/8" x 29" at steel bar to securely anchor the window net, and mounting brackets. Use with loop style nets. Will not work with most border type nets.

### Replacement Component

**ALL99070** .... Mounting Tabs

### Spring Loaded Round Tube ALL10219



Spring-loaded tube eliminates the latch release and provides easy entry and exit. Pushing against the handle allows the spring loaded rod to compress approximately 3/4" to release or fasten window net. Kit includes a 26-1/2" long x 9/16" diameter spring loaded top tube, 3/4" at aluminum strap for securing the bottom of the net, mounting hardware, handle and instructions. Designed for most border and loop style nets.

### Replacement Component

**ALL99071** .... Mounting Tabs

## Clamp-On Kits

Clamp-on kit eliminates welding tabs to chassis. Clamps have .600" holes designed to install ALL10219 window net installation kit to chassis tubing.



**ALL10221** ..... 1-1/2" Kit

**ALL10222** ..... 1-3/4" Kit

### Individual Components

**ALL99160** .... 1-1/2" Clamp-On Bracket, Fixed

**ALL99161** ..... 1-1/2" Clamp-On Bracket, Swivel

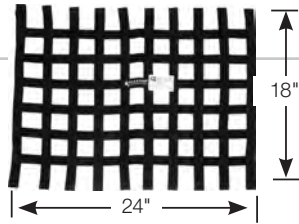
**ALL99162** ..... 1-3/4" Clamp-On Bracket, Fixed

**ALL99163** .... 1-3/4" Clamp-On Bracket, Swivel



### Loop Style Ribbon Window Nets

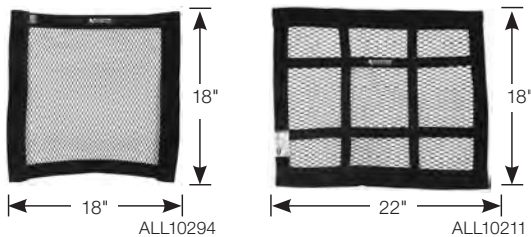
Durable polypropylene nets are ideal for a variety of full bodied cars. Webbing is double stitched with heavy nylon thread. All nets meet SFI 27.1 specifications and are appropriately tagged. Loop design net has loops sewn in top and bottom of net to accept most round tube and at bar window net installation kits.



- ALL10290**..... 18" x 18" Black
- ALL10295**..... 18" x 24" Black

### Mesh Window Nets

Durable, lightweight, black polyester mesh nets increase driver vision and stop smaller debris better than conventional ribbon or string nets. Mesh style net has large built-in sleeves in top and bottom of net to accept most round tube and at bar window net installation kits. SFI Rated (27.1)



- Non-SFI**
- ALL10294**..... 18"H x 18"W
  - ALL10298**..... 18"H x 22"W
  - ALL10299**..... 18"H x 27"W x 22"W (Angled)

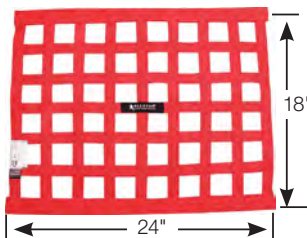
- SFI Rated (27.1)**
- ALL10211** ..... 18"H x 22"W
  - ALL10214** ..... 18"H x 27"W X 22"W (Angled)

### Border Style Ribbon Window Nets

**NEW Non-SFI Nets**

Durable polypropylene nets are available in a variety of sizes and offer additional safety to the driver. Webbing is double stitched with heavy nylon thread. Border style net has built-in sleeves in top and bottom of net to accept most round tube window net installation kits including ALL10217 and ALL10219. SFI certified nets meet SFI 27.1 specifications and are appropriately tagged.

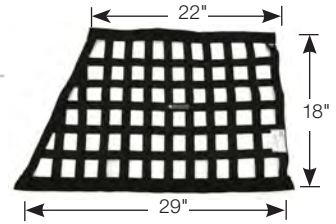
- Non-SFI**
- ALL10248**..... 10"H x 18"W Black
  - ALL10249**..... 14"H x 18"W Black
  - ALL10283** ..... 18"H x 18"W Black
  - ALL10284** ..... 18"H x 24"W Black
- SFI Rated (27.1)**
- ALL10280**..... 18"H x 18"W Black
  - ALL10285**..... 18"H x 24"W Black
  - ALL10286**..... 18"H x 24"W Blue
  - ALL10287**..... 18"H x 24"W Red



ALL10287

### Angled Window Nets

Angled net with border style mounting encloses more of the driver side window opening for additional protection. Net has built-in top and bottom sleeves to accept most round tube window net installation kits including ALL10217 and ALL10219. SFI certified net meets SFI 27.1 specification and is appropriately tagged.

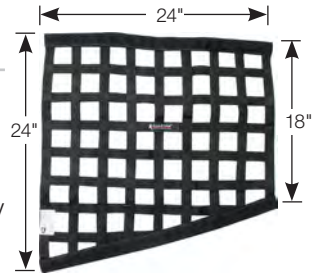


- ALL10293**..... Non-SFI Black **NEW**
- ALL10288**..... SFI Rated (27.1) Black

### Drag Window Net

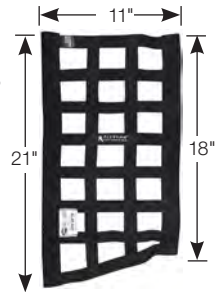
**ALL10289**

Drag window net with border style mounting attaches to the diagonal door bar of most drag cars. Net meets SFI 27.1 specification and is appropriately tagged. Net has top and bottom built-in sleeves to accept most round tube window net installation kits including ALL10217 and ALL10219.



### Funny Car Style Window Net ALL10291

Border style window net has built-in vertical sleeves for installing mounting rods to attach net to the chassis. Net is ideal for cages that have been fitted with or updated to funny car style bars around the driver. Net is SFI 27.1 certified.



### Triangle Window Net ALL10246

Triangle net originally designed for Sprints and Midgets also works well on Dirt Late Models and Modifieds when wrap-around ends are needed. Net includes quick release buckle and meets SFI 37.1 specs.



### Style Triangle Window Net

**ALL10247**

Triangle window net has a border style top for use with most round tube installation kits. Lower portion of net secures around a lower bar.



SAFETY / DRIVER EQUIPMENT





### Radiator ALL30028

Aluminum radiator with furnace brazed tanks provides superior cooling in sprint applications. Features machined filler neck, 1-1/2" RH bottom outlet and (4) female top outlet ports for use with -10AN O-ring fittings. Radiator uses a smaller diameter cap (not included) such as ALL30124 or ALL30125. 20" wide x 22" tall x 2" thick. 9.7 lbs.



### Cross Flow Radiator (Chassis Mount) ALL30030

Aluminum radiator with a unique black thermal coating provides superior cooling! Built-in mounting brackets enable the radiator to be quick-turn fastened directly to frame tabs. Radiator with -10AN O-Ring inlets and 1-1/2" outlet is 20-1/2" wide x 18-1/2" tall (including outlet neck) x 2-3/8" thick core. Recommended radiator cap is ALL30126 (28-32 lbs.) sold separately. Approximate weight 8.5 lbs.



### Wall Mount

#### Radiator Holder Kit ALL12216

Brackets fasten to trailer wall and hold radiator safely in place during transport to avoid damage. Kit includes two 29" long aluminum brackets with adjustment holes at 2" increments and arms to fit radiator cores up to 2-1/4" wide. Adjustable arms are slotted for quick adjustment with included thumbscrew knobs to fit a variety of radiator heights.



### Radiator Air Scoop for Sprint Car

Scoop fastens around a tube or the front crossmember of most chassis to maximize air flow through the radiator, increase cooling efficiency and at the same time, create down-force. Black plastic scoop is a universal design that will fit a variety of cars and the aluminum scoop is designed for most raised rail cars. Scoop is commonly fastened to the chassis with quick turn fasteners.



**ALL23224** .... Plastic 22" x 11"

**ALL23225** .... Aluminum 22" x 13"

### Flat Front Air Box ALL23226

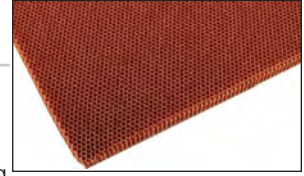
Box fits most sprint cars with 1" raised rail and is fabricated from .080" aluminum. Box measures 9-3/4" left side to 10-3/4" right side, with a total weight of 2.13 lbs.



### Radiator Honeycomb

#### ALL30158

Honeycomb screen mounts to front of radiator to protect fans/core from rocks and debris. Secure directly to radiator using ALL30085 mounting kit, sold separately. 19" x 26" x 1/2" thick.



### Sprint Car Radiator Rock Screen ALL30163

Aluminum rock screen helps to protect radiators from heavy rocks and mud. Mounting tabs are integrated into the frame for quick and easy installation to a front air box. Measures 20-1/2" wide x 12" tall and weighs just under 1 lb. Quick turn springs are included.



### Sprint Front Engine Plates



Aluminum front engine plates for SB Chevy are offered in one- and two-piece designs. One-piece versions mount using the lower front mounting holes. Two-piece sets use the lower front mount holes and the water pump mounting holes. All plates have 19-1/2" center-to-center chassis mounting holes. ALL38128 and ALL38145 plates come with bushings to allow for engine flex and help with weight transfer.



Part No.	Description	Finish	Thickness
<b>ALL38118</b>	1-Piece Solid Plate*	Plain	3/8"
<b>ALL38119</b>	1-Piece Solid Plate*	Black	3/8"
<b>ALL38128</b>	1-Piece Plate with Bushings*	Plain	3/8"
<b>ALL38145</b>	2-Piece Plate with Bushings†	Black	3/8"
<b>ALL38130</b>	Universal Mount	Plain	1/4"

\*Features mounting holes for Saldana tank mount bracket OTMB1†Designed to work with ALL36092 and ALL36093 tank mounts.

### Sprint Car Dry Sump Tank Mounting Brackets

Mounting brackets are designed to mount 6" diameter tank to the left front corner of standard small block Chevy engine. Commonly mounted with ALL38145 sprint engine plate, the upper bracket utilizes the water pump mounting holes and the lower bracket fastens to the early front engine mount mounting hole.



**ALL36092** .... Upper Tank Mount  
**ALL36093** .... Lower Tank Mount



## Sprint Rear Engine Plate **ALL38126**

CNC-machined aluminum rear engine plate is standard and raised cam engines, standard and raised rail cars as well as most lightweight blocks. Multiple holes are drilled and tapped for mounting pumps and torque ball shield directly to engine plate instead of the housing. The top trailing edge of engine plate is grooved to eliminate obstruction with dash. 3/8" thick plate weighs 7.25 lbs.



## Torque Ball Safety Blanket **ALL55220**

Fire-resistant safety blanket designed by Jason Meyers Racing protects drivers legs and feet in the event of a U-joint failure. Ballistic nylon covered blanket weighs just 1-1/2 lbs. and has quick release adjustable straps that allow blanket to be removed easily for servicing torque ball and U-joint. Blanket includes two mounting brackets, mounting studs, nuts, and installation instructions.



### Replacement Components

- ALL55224** .... 3/8" Mounting Stud Kit
- ALL55226** .... Mounting Tabs, 1-Pair

## Torque Tube Belt **ALL10181**

Universal strap keeps torque tube stabilized and centered in case of coupler or tube failure. Black, 3" wide belt fits all torque tube and chassis combinations.



## Titanium Stud Kit for Torque Tubes **ALL17030**

Kit includes six 3/8"-24 x 3/8"-16 studs with 12 point steel nuts to secure torque tube to rear end housing. Kit weighs about 100 grams.



## Titanium Stud Kit for Headers **ALL17010**

Kit includes fourteen studs with 3/8"-24 thread on one end, 3/8"-16 thread on the opposite end and 12-point steel shoulder nuts to work with most headers. Overall stud length is approx. 1-1/4". Kit weighs a total of 185 grams.



## Titanium Fastener Kit for Fuel Pump **ALL17006**

Kit includes three 1/4"-20 x 1/2" mounting fasteners and one 1/4"-20 x 1" long pinch bolt with an extended head for easy adjustments. Fastener kit fits most Waterman or Kinsler style pumps and weighs less than 15 grams.



## SB Chevy Gear Drive Assembly

Aluminum gear drive provides accurate cam timing and the ability to adjust valve timing without removing the oil pan. Aluminum frame features a built-in front oil pan gasket retainer and an idler gear cradle for accurate cam timing throughout the RPM range. Gear drive are complete with cam, crankshaft and idler gears, needle bearing thrust kits, offset degree bushing kit, extra-long dowel pins and installation instructions. Gear drives are commonly used with ALL90080 and ALL90081 Billet Timing Covers or may be used with most stock-type covers such as the ALL90010 with slight modification.



- ALL90000** .... Standard Cam Gear Drive
- ALL90100** .... Raised Cam Gear Drive (+.391")

### Replacement Components

- ALL90001**..Cam Gear
- ALL90002**..Crank Gear
- ALL90003**..Idler Gear
- ALL90004** .Cam Plate Shims, 10-Pk.
- ALL90005** .Cam Degree Bushing Set
- ALL90007** .Thrust Washer Set

## Billet Timing Covers

Machined billet aluminum timing cover is lightweight, durable and weighs over 1 lb. less than cast aluminum covers. Fits major brand oil pumps. Mounting hardware included.

- ALL90080** .... Standard Cam
- ALL90081** .... Raised Cam



## Aluminum Cam Seal Plates

Aluminum cam seal plate provides a reliable seal and tight fit.



Part No.	Size	Color	Application
<b>ALL90085</b>	2.103"	Black	GM Small Block
<b>ALL90086</b>	2.253"	Gold	Rodeck Block w/ 1.875" Roller Cam Bearing
<b>ALL90087</b>	2.310"	Blue	Most Blocks w/ 50mm Roller Cam Bearing
<b>ALL90088</b>	2.382"	Silver	Dart Small Block, Aluminum
<b>ALL90089</b>	-	-	Replacement Cam Plate Seal

## Down Nozzle Filters with Breather Ring **ALL40325**

Filters allow excess fuel to evacuate the injection lines once engine is shut down to help prevent fuel from entering the cylinders. Low-profile design reduces the chance of damage. Package of 8.



## Nozzle Plugs **ALL40327**

Nozzle plugs take the place of the fuel nozzles when only running one set of injectors. Plugs feature 1/2"-20 threads and include a sealing O-ring. Package of 8.



## Throttle Pedals



Pedals fit most sprint chassis with pivot spud welded on frame rail.

- ALL54094** .... Titanium
- ALL54095** .... 4130 Chrome Moly

## Heel Riser

Aluminum heel risers are pre-drilled for easy mounting and include a non-skid pad. 4-1/2" wide.

- ALL54090** .... 1" Tall Riser
- ALL54091** .... 1-1/2" Tall Riser



## Heel Riser Rest **ALL54092**

Aluminum bracket is 1" tall and rivets to heel risers to help keep foot in place on the riser.



## Throttle Bell Cranks

Designed for Sprint car applications, each bell crank is fitted with a pressed .250" I.D. bearing for smooth throttle operation and has optional locations for connecting push rods of various lengths. Typically two are required to complete an application. Option holes on each crank are .188" and spaced 3/8" apart.



- ALL54150**..... Arms Set 75° Apart, 35 Grams
- ALL54152**..... Arms Set 70° Apart, 40 Grams

## Quick Release Throttle Cable Ends

Quick release ends are used when a throttle connection needs to be removed and installed often. Steel housing has a spring loaded release to keep housing secure to pivot ball.



- ALL54147**..... #10-32 with #10-32 and 1/4"-28 Studs
- ALL54149**..... 1/4"-28 with 1/4"-28 Stud

## Positive Cam Lock Shifter

### **ALL54135**

CNC-machined billet aluminum shifter clamps to the frame on driver's right. Designed for use with live axle shifter quick change. Shifter includes all steel hardware, heavy-duty cable, and quick release end.



### Replacement Components

- ALL54142**..... 43" Long Cable

## Chrome Moly Brake Pedal

### **ALL41033**

Lightweight sprint car brake pedal is fabricated from 1" O.D. x .040" 4130 chrome moly tubing then black powder coated. Pedals provide optimal feel due to a knurled no-slip, extra-grip foot rest. Universal fit pedal works with most sprint car raised rail chassis. 1-1/2" heel block is recommended for proper heel to pedal spacing.



## Titanium Brake Pedals

High-strength titanium brake pedal is manufactured from 1" diameter tubing. Knurled pattern on 5" wide pedal helps keep foot in place. Approximately .55 lbs.

- ALL41031**..... Standard Rail, 17" Long Overall
- ALL41032**..... Raised Rail, 16" Long Overall



## Tel-Tac Mount **ALL81332**

Aluminum mount accepts Tel-Tac digital tachometers and recesses into a dash for clean, finished look. Mount attaches to backside of dash with quick turn fasteners (buttons sold separately) for simple tachometer removal and installation.



## MSD/FAST Ignition Box Mount **ALL81330**

Box mount provides a quick release method for replacing MSD or FAST ignition boxes with 7-1/2" x 3-1/2" or 4-1/8" x 6-1/2" center to center mounting dimensions. Kit includes aluminum box mount, (4) quick turn fasteners, springs, and 1/8" aluminum rivets.



## Aluminum Steering Box Mounts

Steering mounts are manufactured from 2024 aluminum. Black anodized finished, steering mounts are offered in three versions. Rigid design keeps steering gear in place.



- ALL52114** ..... Mount with Fuel Shut Off for MPD Valves
- ALL52115** ..... Mount with Fuel Shut Off for Waterman Valves
- ALL52116** ..... Long Mount

## Half Box Steering Gear Mount

### ALL52113

Mount is designed for quick installation and removal of the steering gear box. Three hex-cut slots eliminate the need to remove snap ring and end cap and allow the steering box to slide easily into place. CNC-machined from 3/8" thick 2024 aluminum for strength, yet only weighs .60 lbs.



## Power Steering Lines



Assembled lines for power steering have -6AN ends and are compatible with high-pressure pumps found in today's sprint cars where standard hose and fittings cannot be used. Lines are lightweight yet strong, weighing less than a standard high-pressure hose assembly. Plumbing is perfect for connection of KSE steering gear to pump. 13-1/2" long.

- ALL48260** .... Line with Steel Ends and Protective Wrap
- ALL48261** .... Line with Aluminum Ends

## Power Steering Supply Line for KSE Gen2 Steering Gear

Gen2 supply line has -10AN aluminum fitting and built specifically for use with KSE Gen2 steering gear. New style hose is very flexible, and will not collapse under suction. Total overall length of hose including fittings is 9".



- ALL48262** .... Hose with 90° End
- ALL48263** .... Hose with 45° End

## Knee Guard

### ALL55230

Ultra-light aluminum knee guard designed by Jason Meyers Racing works great for protecting knees from banging against half box steering gears and provides a comfortable leg support when throttling through corners. Fire-retardant, high-impact, dense rubber padding is covered with self-extinguishing cloth for added safety. Guard fastens to the half box mount (not the box) by drilling and bolting or riveting and is held in place with safety wire or a wire tie.



## Knee Guard Mount ALL55232

Aluminum mount with 2" I.D. fastens around KSE sprint steering box tube to help secure most popular knee guards. Sold each.



## Weld Bung for Seat Belts

### ALL98125

Bung welds into tubing up to 1-3/8" to convert wraparound style seat belts to bolt-in ratchet style belts. Shoulder allows belt to pivot as needed and accepts 3/8" seat belt mounting hardware.



## Adjustable Fuel Cell Mounts

### ALL55112

Slotted mounts replace fixed weld-on brackets and clamp directly to 1-3/8" cross tube. Mounts have 1-1/4" long slots, allowing adjustment often needed to reach insert locations of fixed, ever changing fuel cell shapes and can be rotated for easy fuel cell mounting. Machined aluminum, black anodized mounts weigh .35 lbs. each. Package of 2.



## Titanium Fastener Kit for Fuel Tank Top Plate ALL17008

Kit includes twelve 1/4"-28 x 7/8" button style socket head fasteners to replace the standard bolts securing the top plate to the bladder on most Fuel Safe and ATL sprint fuel cells. Kit weighs less than 45 grams.







## Stacked Front Bumper

**ALL22300**

Stacked front bumper for improved front end protection is precision bent from 1" O.D. steel tubing, 6" tall x 8" long overall x 19-1/4" wide on center. Weighs less than 4 lbs.



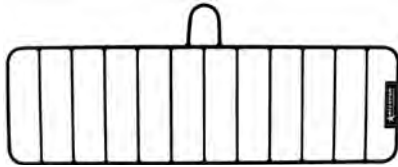
## Titanium Bolt Kit for Nerf Bars and Bumpers **ALL17016**

Kit includes twelve 10-32 x 1-1/2" bolts with nylon locking half nuts. Kit includes enough fasteners for bumpers and side nerf bars. Kit weighs less than 50 grams.



## Rock Screens

Steel screen mounts to chassis, providing driver added protection from rocks and debris. Black powder coated screen is 7-1/2" tall with 2" wide slots. Approximately 1.60 lbs.



**ALL30165** .... Sprint Car, 25" Long

**ALL30166** .... Mini Sprint, 23-3/4" Long

## Nose Wing Wall Mount Brackets **ALL12214**

Brackets attach to the side of trailer wall to hold a spare sprint car front nose wing safely in place. Powder-coated aluminum brackets feature slotted arms that are fully adjustable to accommodate a variety of nose wing shapes and sizes. Sold in pairs with retention straps to keep wing secure.



## Tool Tray

**ALL14170**

Tool tray measures 12" x 18" x 3", with hooks on one side to fasten to race car nose or sprint/midget front wing and 6" stands on the opposite side so tray will sit level. Tray has 16 holes for spark plug and nozzle holder use.



## Adjustable Nose Wing Posts

Clamp-on style angled aluminum mounts fasten around 1-1/2" torsion bar tubes, providing adjustability to front wing posts.



Part No.	Description	Material
<b>ALL55100</b>	Aero Post LH	Steel
<b>ALL55101</b>	Aero Post RH	Steel
<b>ALL55106</b>	Post Straight, 13" Long	Aluminum
<b>ALL55102</b>	Mount for ALL55100 Aero Post LH	Aluminum
<b>ALL55103</b>	Mount for ALL 55101 Aero Post RH	Aluminum
<b>ALL55107</b>	Mount for ALL55106 Post	Aluminum

## Fixed Nose Wing Posts

Fixed posts have a 1" O.D. to fit into pinch clamp spuds welded to torsion bar tubes on most chassis. Bent tubes are angled forward to mount the front wing forward, adding increased down force.



Part No.	Description	Material
<b>ALL55108</b>	Bent, Aero With Round Tube	Steel
<b>ALL55105</b>	Bent	Aluminum
<b>ALL55125</b>	Bent	Titanium
<b>ALL55106</b>	Straight	Aluminum
<b>ALL55126</b>	Straight	Titanium
<b>ALL55110</b>	LH Sideboard Mount	Stainless Steel
<b>ALL55111</b>	RH Sideboard Mount	Stainless Steel

## Wing Caps



Prevent rock and debris from damaging the leading edge of many popular sprint car wings with a protective cap.

**ALL23220** .... Top Wing Cap, 60" Long, High-Impact Plastic

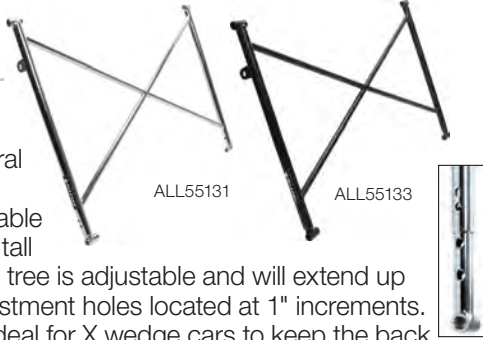
**ALL23222** .... Front Wing Cap, 36" Long, High-Impact Plastic

**ALL23221** .... Top Wing, 60" Long, Carbon Fiber

**ALL23223** .... Front Wing, 36" Long, Carbon Fiber

## Top Wing Trees

Wing trees have an "X" design for lateral and horizontal strength. Available in 16" and 18" tall versions, each tree is adjustable and will extend up to 6" with adjustment holes located at 1" increments. 16" trees are ideal for X wedge cars to keep the back of the top wing lower while providing optimal top wing tilt at high-speed tracks. 4130 chrome moly 3/4" x .060" tube construction. Wing trees are 26" wide at the top and have a min/max bottom width of 25-3/4" to 26-1/2". Adjuster pins not included.



Part No.	Height	Finish
<b>ALL55130</b>	16" (Extends to 22")	Black
<b>ALL55131</b>	16" (Extends to 22")	Plated
<b>ALL55132</b>	18" (Extends to 24")	Black
<b>ALL55133</b>	18" (Extends to 24")	Plated

### Related Components

**ALL17028**..... Titanium Adjuster Pins, (1-Pair)

**ALL55134**..... Top Wing Tree Slider, Black

**ALL55135**..... Top Wing Tree Slider, Plated

## Titanium Top Wing Pin Kit

### ALL17028

Kit includes two pins with locking clips for adjusting wing tree height.



## Manual Wing Adjuster ALL48004



Manual wing adjuster is for sprint car top wings when rules do not permit the use of hydraulic cylinders. Aluminum slider includes 3/8"-24 steel rod ends and is adjustable from 20" to 32" center-to-center in 1" increments with included 1/4" locking pin. Weighs less than 1 lb.

## Hydraulic Wing Cylinders



Strong hydraulic wing cylinders have an aluminum body which houses a steel piston and pushrod assembly. Available in 10" and 12" lengths.

**ALL48000** .... 10"

**ALL48002** .... 12"

## Titanium Studs for Wing Cylinders

Single stud used to mount the wing cylinder to the chassis or wing tree. Stud has 3/8"-24 threads for mounting most cylinders. Mounting nuts not included. Sold each.



**ALL17036**..... 5/16"-24 x 3/8"-24 x 1.640" Stud

**ALL17038**..... 3/8"-24 x 3/8"-24 x 1.600" Stud

## Wing Line Kit

### ALL48006

Kit includes lightweight, coated stainless steel braided lines and aluminum fittings to help simplify plumbing of KSE Gen2 steering gear and wing cylinder. Kit includes (2) #4 slider lines (22" long and 36" long), (2) #4 pressure and return lines (18" long), (4) 45° 4AN to 1/8"NPT valve fittings, (2) 90° 4AN to 1/8"NPT cylinder fittings, and (2) high-flow -3 ORB to -4AN fittings.



## Mud-X Cleaner ALL78232

Ground Shipment Only

Cleans and shines plastic, polycarbonate, chrome, fiberglass, paint, vinyl and leather and leaves an invisible coating that protects surfaces and repels dirt, dust, fingerprints, smudges and bugs. Spray it on and wipe it off. Excellent anti-fog coating for helmet shields. 14-oz. can.



## Mud-X Concentrate

### ALL78230

Mix concentrate with up to ten quarts of water to produce a coating that prevents mud, dirt, oil, rubber, and exhaust residue from sticking to body panels. Safe for metal, plastic, rubber, and painted surfaces. One-quart container.



## Pressurized Sprayers

Sprayers are great for applying bulk cleaners, degreasers, solvents, penetrating oils, and other lubricants. Sprayer has a capacity of 32 ounces and includes a versatile nozzle adjustable from mist to a fine stream.



**ALL10516** ..... Black

**ALL10518** ..... Chrome

## Mud Scraper ALL44165



Remove the stickiest mud and clay without damaging paint or decals. Lightweight and 32" long to reach wings, deck lids, and undercarriage. Use the convenient hole in end to hang scraper.



## Front Axles

Lightweight .095" wall 4130 chrome moly front axles measure 50" x 2-1/2" with 9° and 12° kingpin angles for excellent driver feel and are precision built for quality and accuracy. Axle king pin bosses are shipped factory reamed for easy installation and also feature threaded Panhard bar stud and shock mounts. Available in black powder coat or chrome plated.



- ALL55170** ..... Black
- ALL55171** ..... Chrome

## Aluminum Steering Arms



ALL55058

ALL55060

ALL55062

Arms are strong and solid for rough tracks and t 3-1/4" spindles. Combo arm has a 1" lead.

- ALL55062** .... Steering Arm RH
- ALL55060** .... Combo Steering Arm LH, Solid
- ALL55058** .... Combo Steering Arm LH

## Titanium Steering Stud Kit **ALL17026**

Kit includes four studs with nylon locking half nuts that thread into steering and pitman arms with 1/2"-20 threads for properly mounting steering links.



## Left Front Caliper Mount

Machined aluminum mount keeps the caliper true and straight for maximum braking power. Bolts included.



- ALL55070** .... Mount for 10-7/8" Rotor, Plain
- ALL55071** .... Mount for 10-7/8" Rotor, Black
- ALL55072** .... Mount for 10-1/8" Rotor, Plain
- ALL55073** .... Mount for 10-1/8" Rotor, Black

## Titanium Fastener Kit for Front Hub **ALL17004**

Kit includes five 3/8"-16 x 1-1/4" smooth head fasteners with a built-in hex for securing into hub and five shoulder nuts. Fasteners weigh a total of 90 grams.



## Pitman Arms

Pitman arms for popular 48-spline boxes are manufactured from 2024 aluminum and feature two drag link mounting points with 1/2"-20 threads. Angle broached arms provide the extra offset needed on today's short steering boxes for header clearance.

- ALL55030** .... Angle Broach, 15°
- ALL55032** .... Straight

ALL55030



## Drag Link/Tie Rod

1-1/8" sprint car steering rods are made from 4130 chrome moly .065" wall tubing. Rods have 5/8" threads and a tapered threaded end.



Length	Black Powder Coated	Plated
46"	<b>ALL55932-46</b>	<b>ALL55933-46</b>
47"	<b>ALL55932-47</b>	<b>ALL55933-47</b>
48"	<b>ALL55932-48</b>	<b>ALL55933-48</b>
49"	<b>ALL55932-49</b>	<b>ALL55933-49</b>
50"	<b>ALL55932-50</b>	<b>ALL55933-50</b>
51"	<b>ALL55932-51</b>	—

## Drag Link Tether

### **ALL10252**

Keeps drag link tethered to the chassis if it becomes disconnected. Tethering of drag link is required by most sanctioning bodies. 22" L x 1" W, woven nylon.



## Titanium Pinch Bolt Kit for Torsion Arms and Pitman Arms **ALL17032**

Kit includes five bolts to replace standard 3/8"-24 x 1-7/8" hardware found in most torsion and Pitman arms. Bolt kit weighs less than 90 grams.



## Titanium Shock Stud Kit for Frame Boss and Spuds

Shock stud kits include four studs and nylon locking half nuts to mount shock to chassis or front axle. Studs have 1/2"-20 threads that thread directly into pre-threaded bungs.



- ALL17022** ..... Stud Kit for 1/2"-20 Threaded Bungs
- ALL17048** ..... Black Half Nuts 1/2"-20, 10-Pack



## Aluminum Torsion Arms

Manufactured from 2024 aluminum. Arms are exceptionally strong and will not ex.



- ALL55000** .... Front Left
- ALL55002** .... Front Left S-Bend\*
- ALL55004** .... Right Clear
- ALL55005** .... Right Angle Broach
- ALL55010** .... Left
- ALL55012** .... Right
- ALL55034** .... XP Left\*\*
- ALL55036** .... XP Right\*\*

\* S-Bend Provides Added LF Tire Clearance

\*\* For Use with XP Birdcages Only

## HD Billet Rear Torsion Arms



Heavy-duty, billet aluminum arms have a high resistance to twisting, ensuring a straight rear end while eliminating inconsistent spring rates. LR arms are approx. 3.05 lbs. RR arms are approx. 2.90 lbs. Pinch bolt included.

- ALL55014** .... Left
- ALL55016** .... Right

## Titanium Shock Studs for Rear Torsion Arms **ALL17024**

Shock stud kits include two studs with large support cones and four nylon locking half nuts to mount shock to most rear torsion arms. Studs and nuts weigh less than 50 grams.



## Black Half Nuts **ALL17048**

Black plated steel 1/2"-20 nylon lock nuts are grade 8 and a lightweight option to keep fasteners in place. Package of 10.



## Torsion Arm Stops

Stops are available in 1-3/4" or 2" split and are offered in aluminum, 4340 steel or titanium. Steel stops include a 9/16" bolt and nut. 2024 grade aluminum stops include a grade eight bolt with 5/8" head and an aluminum jam nut. Titanium stops include a titanium bolt with 5/8" head and an aluminum jam nut.



### 1-3/4" Split Stops

**ALL55020** .... Aluminum, Black

**ALL55024** .... Titanium

**ALL55028** .... Steel, Black

### 2" Split Stops

**ALL55022** .... Aluminum, Black



## Related Parts

### Titanium Torsion Arm Stop Bolts With Nut

**ALL55027** .... 7/16"-20 with 9/16" Head



### Titanium Torsion Arm Stop Adjuster Bolt Kit **ALL17034**

Kit includes four 7/16"-20 stop adjuster bolts with 9/16" heads to replace or upgrade standard hardware found in torsion arm stops. Kit weighs less than 80 grams.



### Titanium Pinch Bolt Kit for Torsion Arms and Pitman Arms **ALL17032**

Kit includes five bolts to replace standard 3/8"-24 x 1-7/8" hardware found in most torsion and pitman arms. Bolt kit weighs less than 90 grams.



## Torsion Arm Stop Kit



Kits hold torsion arm and stop in place if pinch bolts loosen or breakage occurs.



- ALL10730** .... Clear
- ALL10731** .... Black

## Torsion Bar Bushings

Performance tested anti-friction nylon bushings are stepped to minimize binding of the torsion bar. Durable, lightweight material offers increased wear-resistance allowing for longer part life, decreased mating component wear and less down time!



- ALL55140** ..... Sprint 1-1/8" I.D. for .095" Wall Tubes, Each
- ALL55140-10**. Sprint 1-1/8" I.D. for .095" Wall Tubes, 10-Pack
- ALL55150** ..... Midget, Each
- ALL55150-10**. Midget, 10-Pack
- ALL55160** ..... Mini Sprint, Each
- ALL55160-10**. Mini Sprint, 10-Pack



## Aluminum Birdcages

Single bearing design birdcages have replaceable components and are fitted with grade 8 hardware.

- ALL55040** .... Left
- ALL55042** .... Right



## XP Aluminum Birdcages

Center pull birdcages are one of the most innovative cages. XP cages eliminate bind on the bearing and reduce drag, allowing for better weight and horsepower transfer. Must be used with XP rear torsion arms.

- ALL55038** .... Left
- ALL55039** .... Right



## Related Components

- ALL55034** .... XP Torsion Arm Left Black
- ALL55036** .... XP Torsion Arm Right Black

## Non-Wing Aluminum Birdcages

Non-wing single bearing birdcages have lowered rear arm connection points, replaceable components, and are fitted with grade 8 hardware.

- ALL55044** .... Left
- ALL55046** .... Right



## Replacement Components

- ALL55050** .... Brake Mount RR Steel
- ALL55051** .... Flag
- ALL55052** .... Spud
- ALL72336** .... 28mm Bearing
- ALL55054** .... Spirolox
- ALL55055** .... Arm Bolt
- ALL55056** .... XP Arm Bolt



## Birdcage Bearings

Replacement bearings for Allstar birdcages and many other brands.

- ALL72336** .... 28mm Wide
- ALL72338** .... 32mm Wide



## Runout Checker

**ALL96440**

Fixture provides an easy way to check for bent torque tubes, drive shafts, torsion bars, or radius rods, and measures 16-1/2" overall.



## Rod Ends

Two-piece spherical rod ends have a pivoting steel ball and are sold each.



Bore x Thread	RH Male	LH Male	Strength
<b>Pro Series Steel (Moly) - Black</b>			
5/8" x 5/8"-18	<b>ALL58060</b>	<b>ALL58070</b>	18,000 Lbs
<b>Aluminum - Black</b>			
1/2" x 5/8"-18	<b>ALL58089</b>	<b>ALL58099</b>	15,000 Lbs

## Thin O.D. Jam Nuts

Specialty jam nuts have smaller outside diameters, allowing smaller wrenches to be used when changing radius rod lengths. Package of 4.



Thread Size	Wrench Size	Steel Part No.	Alum. Part No.	Black Alum. Part No.
5/8"-18 RH	3/4"	<b>ALL18292</b>	<b>ALL18296</b>	<b>ALL18286</b>
5/8"-18 LH	3/4"	<b>ALL18293</b>	<b>ALL18297</b>	<b>ALL18287</b>

## Steel Radius Rods

7/8" O.D. steel radius rods are .083" wall tubing and have 5/8"-18 threads.

- ALL57188** ..... 22"
- ALL57190** ..... 23"



## Aluminum Radius Rods

1-1/8" diameter aluminum radius rods are built from .156" wall tubing and have 5/8" threads to fit most sprint cars and midgets.



Length	Black Anodized	Polished
18"	<b>ALL56806-18</b>	<b>ALL56807-18</b>
18-1/2"	<b>ALL56806-185</b>	<b>ALL56807-185</b>
19"	<b>ALL56806-19</b>	<b>ALL56807-19</b>
19-1/2"	<b>ALL56806-195</b>	<b>ALL56807-195</b>
20"	<b>ALL56806-20</b>	<b>ALL56807-20</b>
20-1/2"	<b>ALL56806-205</b>	<b>ALL56807-205</b>
21"	<b>ALL56806-21</b>	<b>ALL56807-21</b>
21-1/2"	<b>ALL56806-215</b>	<b>ALL56807-215</b>
22"	<b>ALL56806-22</b>	<b>ALL56807-22</b>
22-1/2"	<b>ALL56806-225</b>	<b>ALL56807-225</b>
23"	<b>ALL56806-23</b>	<b>ALL56807-23</b>
23-1/2"	<b>ALL56806-235</b>	<b>ALL56807-235</b>
24"	<b>ALL56806-24</b>	<b>ALL56807-24</b>
24-1/2"	<b>ALL56806-245</b>	<b>ALL56807-245</b>

## Titanium Radius Rod Stud Kit ALL17020

Kit includes six 1/2-20 x 3-1/4" long (2" and 1" UHL) double-sided studs that install into the chassis providing a secure mounting point for radius rods in most chassis. Kit includes black plated steel nylon locking half nuts for securing studs and radius rods to chassis.



## Individual Components

- ALL17048** ..... Black Half Nuts 10-Pack 1/2"-20

## Chrome Moly Jacobs Ladders

Jacobs Ladder is constructed of 4130 chrome moly with aluminum straps. Grade 8 bolts, nyloc nuts, and AN washers are included. Approx. 2 lbs.

- ALL55080** .... 13-1/4"
- ALL55081** .... 13-5/8"
- ALL55082** .... 14"
- ALL55084** .... 12-1/4" Adjustable
- ALL55085** .... 13-1/4" Adjustable
- ALL55086** .... 13-5/8" Adjustable
- ALL55087** .... 14" Adjustable



### Replacement Component

- ALL55090** .... Strap

## Titanium Jacobs Ladders

Titanium Jacobs Ladder is completely assembled with aluminum straps, titanium bolts, mechanical lock nuts, and AN washers. Titanium ladders are 1/2 lb.+ lighter than 4130 steel ladders and weigh only 1-1/2 lbs.

- ALL55077** .... 13-1/4" Small
- ALL55078** .... 13-5/8" Medium



### Replacement Component

- ALL55090** .... Strap

## Carbon Fiber Jacobs Ladder Cover

Protect the rear axle from rock chips and other debris. Real carbon fiber cover is strong yet lightweight and attaches to all Jacobs Ladders with existing bolt or pin (not included).

- ALL55091** .... 3/8"
- ALL55092** .... 1/2"



## Jacobs Ladder Pin Kits

Pin kits offer a quick option for changing out a Jacobs Ladder. Kits include two 3/8" x 3-3/4" long strap pins, one 3/8" or 1/2" x 1-1/2" long pin for birdcage rod end, 3 clips and two springs that help keep the ladder free.

- ALL55093** .... 3/8" Steel
- ALL55095** .... 3/8" Titanium
- ALL55094\*** ... 1/2" Steel
- ALL55096\*** ... 1/2" Titanium

### Replacement Components

- ALL55097** .... 3/8" Clip
- ALL55098** .... 1/2" Clip
- ALL55099** .... Spring

\*Used with Allstar Jacobs Ladders



## Jacobs Ladder Installation Kit

- ALL17012**

Installation kit includes a titanium pin kit and strap mounting hardware for quickly changing out a Jacobs Ladder. A 1/2" birdcage rod end pin for use with most popular Jacobs Ladders is also included.



## Shock Protectors

Shock protectors add extra protection from rocks and debris to your shock body. 11" tall plastic protector simply snaps onto your shock body. May need to be cut to length. Sold each.

- ALL64202** .... 2" Standard Body Shocks
- ALL64203** .... 1-5/8" Small Body Shocks



## Shock Bump Rubbers

Conical shaped bump rubbers fit on most shock shafts up to 16mm to limit shock travel. Bump rubbers are 2-3/8" tall and have a 2" O.D. base. A letter designation is molded in the bottom to identify compound.

- ALL64500** .... Soft (40 grams)
- ALL64501** .... Medium (50 grams)
- ALL64502** .... Hard (55 grams)



## Ride Height Blocks

Chassis set-up blocks are adjustable in 1/4" increments. A quick-release pin holds block at desired height. Bottom surfaces of blocks are contoured to fit steel tubing or any flat surface and have magnets for holding block to chassis. Short blocks adjust 1.75"-4". Tall blocks adjust 3"-6". Package of 2.

- ALL10720** ..... Short
- ALL10721** ..... Tall



## Adapters Cups for Ride Height Blocks

- ALL10722**

Adapters replace the standard flat pad on set up blocks and are machined to cradle axle tubes during chassis set-up. Package of 2.



## Cradle Rollers for Ride Height Blocks

- ALL10723**

Built-in rollers allow live axle rear-ends to rotate while on the cradles or when using the rear axle to rotate the engine to check or adjust the valve train. Package of 2.





## SB Chevy Power Steering Kits

Kits include all the major components of a power steering system: power steering pump fitted with a lightweight aluminum pulley, power steering tank, tank mounting bracket, and choice of head or block mounted pump bracket.



- ALL48240** .... Head Mount Kit
- ALL48242** .... Block Mount Kit

Notes: Additional pulley or bracket shimming may be required on some applications. Head mount bracket may need to be modified to clear some water pumps.

## Power Steering Pump with Pulley

Steel Type II style power steering pump with 6" diameter pulley provides smooth, consistent steering. Pump is rated at 3 gallons per minute and produces up to 1300 PSI at a recommended pump RPM range of 1500-6500. Pump features a -6AN pressure fitting and a -10AN return fitting.



- ALL48250** .... Pump with Pulley
- ALL48252\*** ... Pump with Pulley for 1/2" Belt

### Replacement Components

- ALL99252** .... Pump only with AN Fittings (.665" Shaft)
- ALL48251** .... Pulley For ALL48250
- ALL48253** .... Pulley For ALL48252
- ALL99286** .... Return Fitting -10AN with 3/4"-16 Thread
- ALL99287** .... Return Fitting -10AN with 7/8"-32 Thread
- ALL99288** .... Pressure Fitting -6AN

\*Designed for use with 1/2" wide industrial grade belt used with ALL31094 and ALL31095 1:1 pulleys.

## Power Steering Pump with Pulley and Reservoir

**ALL48245**

Aluminum Type II style power steering pump with 6" diameter pulley and integral fluid reservoir provides smooth, consistent steering. Pump is rated at 3 gallons per minute and produces up to 1300 PSI at a recommended pump RPM range of 1500-6500. Pump features a -6AN pressure fitting and a -6AN return fitting.



### Replacement Parts

- ALL48246** .... Cap
- ALL48247** .... Tank and Clips
- ALL48251** .... Pulley for ALL48245

## V-Belts

Premium quality V-belts are perfect replacements for worn or cracked belts.



- |                            |                          |
|----------------------------|--------------------------|
| <b>ALL86120</b> .... 31.5" | <b>ALL86123</b> .... 41" |
| <b>ALL86121</b> .... 34"   | <b>ALL86124</b> .... 42" |
| <b>ALL86122</b> .... 39"   | <b>ALL86125</b> .... 44" |

## SB Chevy Power Steering Pump Bracket Kits

Power steering bracket kit provides proper installation of the Type II style power steering pump to most SB Chevy applications with a short style water pump. Bracket kit also includes bracket-to-engine and pump-to-bracket mounting hardware. Head mount locates the pump to the driver's side cylinder head and the block mount locates the pump to the lower driver's side of the block.



- ALL48500** .... Head Mount Kit
- ALL48502** .... Block Mount Kit

Notes: Additional pulley or bracket shimming may be required on some applications. Head mount bracket may need to be modified to clear some water pumps.

### Replacement Components

- ALL48505** .... Bracket-to-Head Bolt Kit
- ALL48507** .... Pump-to-Bracket Bolt Kit
- ALL48508** .... Adjuster T-Nut

## Economy SB Chevy Power Steering Pump Bracket Kits

Power steering bracket kit provides proper installation of the Type II style power steering pump to most SB Chevy applications with a short style water pump. Bracket kit also includes bracket-to-engine and pump-to-bracket mounting hardware. Head mount locates the pump to the driver's side cylinder head and the block mount locates the pump to the lower driver's side of the block.



- ALL48501** .... Head Mount Kit
- ALL48503** .... Block Mount Kit

### Replacement Components

- ALL48505** .... Bracket-to-Head Bolt Kit

Notes: Additional pulley or bracket shimming may be required on some applications. Head mount bracket may need to be modified to clear some water pumps.

## Pulley Shim Kits

Use shim kits to properly align pulleys. Water pump shims have dual bolt hole pattern to fit most GM and Ford water pumps. Crank pulley spacers are for small block Chevys. Kits include three shims.



- ALL31064** .... Water Pump Shims, 1/16", 1/16", 1/8"
- ALL31066** .... Crankshaft Shims, 1/16", 5/64", 1/8"

## Firewall Mount Power Steering Tanks

Aluminum tank measures 8" tall by 3" wide with mounting tabs spaced 4-1/4" apart. Tank features an internal baffle between the -6AN return and the -10AN supply to help prevent cavitation and includes a twist-off filler cap.



- ALL36136**..... LH Inlet
- ALL36137**..... RH Inlet

## Economy Power Steering Tank with Bracket **ALL36130**

Aluminum tank has no internal baffles and is 8" tall overall by 3" in diameter with a -6AN return fitting on the side and a -10AN fitting on the bottom. A mounting bracket for 1-3/4" round tubing is included.



- ALL36126**..... Tank and Cap Only
- ALL36124**..... Replacement Cap
- ALL36122**..... Round Tube Mounting Bracket

## Power Steering Tank with Bracket

Aluminum tank is 8-1/2" tall overall by 3-1/2" in diameter with a -6AN return fitting on the side and a -10AN fitting on the bottom. A baffle in the return fitting prevents foaming and cavitation. A steel bracket for mounting tank is included.



- ALL36120**..... Tank with 1-3/4" Round Tubing Bracket
- ALL36132**..... Tank with 2-1/4" x 3-1/2" Flat Mount Bracket
- ALL36121**..... Tank and Cap Only
- ALL36124**..... Replacement Cap Only
- ALL36122**..... Round Tube Mounting Bracket
- ALL36125**..... Flat Mounting Bracket

## Power Steering Tank Brackets



Brackets secure 3" or 3-1/2" diameter power steering tanks to round tubing, or flat surfaces such as firewalls. Tanks fasten to brackets with hose clamps or band clamps (not included).

- ALL36122**..... Horizontal Mount (1-3/4" Tubing)
- ALL36123\*** ... Horizontal Mount (Alum. Angle)
- ALL36125**..... Flat Mount

\*Bracket may be clamped to round tubing or bolted to the firewall.

## Power Steering Hose Kits

Kits include hose and fittings to properly install a remote reservoir style power steering pump to most cars. Steering box fittings are sold separately.



ALL48200

**Front Mount Kits** - O.E. Style Location with Pump Mounted to Front of Engine

- ALL48204** .... Kit for Stock Type Gear Box (Modified, Street Stock)
- ALL48200** .... Kit for Rack and Pinion Steering

**Rear Mount Kits** - Pump Mounted to Bellhousing Mounted Dry Sump Pumps, Fuel Pumps, etc.

- ALL48201** .... Kit for Rack and Pinion
- ALL48205** .... Kit for Steering Box

## Power Steering Hose

The same quality hose included in Allstar's power steering hose kits available in a variety of lengths for building custom power steering lines or making repairs. Hose is suitable for most steering applications.

### -6AN Power Steering Hose

- ALL48270-3**..... 3' Long
- ALL48270-6**..... 6' Long
- ALL48270-10** .... 10' Long
- ALL48270-15** .... 15' Long
- ALL48270-20**..... 20' Long

### -10AN Stainless Hose

- ALL48275-3**..... 3' Long
- ALL48275-6**..... 6' Long



## Power Steering Hose Ends

The same quality hose ends included in Allstar's power steering hose kits for building custom power steering lines or making repairs. Fittings are suitable for most steering applications.



### -6AN Hose Ends (Steel)

- ALL48271** .... Straight
- ALL48272** .... 45°
- ALL48273** .... 90°

### -10AN Hose Ends (Aluminum)

- ALL48276** .... Straight
- ALL48277** .... 45°
- ALL48278** .... 90°
- ALL48279** .... 120°

## In-Line Oil Cooler

Cool transmission or power steering fluid by 30°. Easily mounts with two 1/4" bolts or tie wraps. Suitable for most classes of circle track or drag race cars and even the tow vehicle. Includes -6AN fittings. Cooler is 14-1/2" long and 1-3/4" in diameter.



ALL52102

- ALL52100** .... Clear
- ALL52102**..... Black

## Power Steering Box Fittings

Allstar fittings convert most power steering boxes and racks to -6AN fitting.



### O-Ring Style Fittings

- ALL48210\*** ... -6AN Male to M16-1.50 Fitting with O-Ring
- ALL48211** ..... -6AN Male to M14-1.50 Fitting with O-Ring
- ALL48212\*** ... -6AN Male to M18-1.50 Fitting with O-Ring
- ALL48214**..... -6AN Male to 9/16"-18 Fitting with O-Ring

### Non O-Ring Style Fittings

- ALL48215**..... -6AN Male to 5/8"-18 Fitting
- ALL48217**..... -6AN Male to 11/16"-18 Fitting

\*These are the two most common fittings when O-rings are needed.

## Steering Wheel Extensions

Aluminum steering wheel extensions fit between steering wheel and quick disconnect so the distance between driver and steering wheel can be adjusted. Includes fasteners.



- ALL52310**..... 1/2"
- ALL52312**..... 1"
- ALL52314**..... 1-1/2"
- ALL52316**..... 2"

## Molded Steering Wheel Pad

### ALL52322

Molded pads fit at or dished 3-spoke steering wheels. Velcro straps are permanently secured to pad for quick installation.



## Steering Wheel Pad **ALL52320**

Black vinyl-covered pad fastens to most three-spoke racing steering wheels with three hook/loop straps. 5-3/4" diameter foam pad is 2" thick.



## Steering Wheel Hook **NEW**

### ALL10227

Aluminum hook clamps to 1-3/4" roll cage tubing and provides an anchor for hanging your steering wheel when not in use.



## Steering Wheel Disconnects

Disconnects allow easy installation and removal of three bolt style steering wheels, often used to ease the entering and exiting of vehicles. Quick-release aluminum steering wheel hub mates to a steel coupler, which is welded to a standard 3/4" steering shaft.



- ALL52302** .... Hex Style (Pin Type)
- ALL52318**..... Spline Style (360° Flange) Economy
- ALL52308** .... Spline Style (360° Flange)
- ALL52304** .... Spline Style (360° Flange) SFI

### Replacement Components

**ATTENTION: Do not mix components with other manufacturers' disconnects!**



- ALL52303** .... Hex Coupler for ALL52302
- ALL52309** .... Spline Coupler for ALL52308
- ALL52319**..... Spline Coupler for ALL52318
- ALL52305** .... Spline Coupler for ALL52304 (2" of Spline Area)

## Loading Couplers

Loading coupler is a combination U-joint and a non-locking steering coupler that slips over the splined end of the steering shaft for easier loading and unloading of cars in enclosed trailers through the use of a remote steering shaft. Coupler has a built-in U-joint that accepts 3/4" tubing.



- ALL52306** .... 19-Spline for Allstar/Sweet
- ALL52307** .... 20-Spline for Woodward



### Related Component

- ALL52305** .... 19-Spline End for Allstar/Sweet Disconnect



## Steering Shaft Tubing

Seamless D.O.M. tubing is 3/4" O.D. with .120" wall thickness, making this an excellent choice when building a steering assembly to connect steering wheel to steering box or rack and pinion. ALL52132 oversized rod end is commonly used to support steering shaft. Consult sanctioning rules to verify proper installation when building a steering assembly.

**ALL22190** .... 5' Steering Shaft  
**ALL22191** ..... 6' Steering Shaft



## "Double D" Steering Shafts

Solid steel shaft has the appearance of two D's stacked back to back when viewed from the end or simply a 3/4" round shaft with flats on opposite sides. Often used with stock type couplers, this shaft can be used in assemblies without welding. Commonly connected to U-joints using a set screw, the shaft should be dimple drilled to help pilot set screws and help prevent the assembly from sliding apart. ALL52132 oversized rod end is commonly used to support steering shaft. Consult sanctioning rules to verify proper installation when building a steering assembly.

**ALL52175** .... 24" Shaft  
**ALL52176** .... 30" Shaft  
**ALL52177** .... 36" Shaft  
**ALL52178** .... 60" Shaft  
**ALL52179** .... 72" Shaft



## Shaft Collars

Aluminum, 2-piece shaft collars are used on sway bars and steering column assemblies.

**ALL52140** ..... 3/4" I.D.      **ALL52145** .... 1-1/16" I.D.  
**ALL52142** ..... 7/8" I.D.      **ALL52146** .... 1-1/8" I.D.  
**ALL52144** ..... 1" I.D.        **ALL52148** .... 1-1/4" I.D.



## Flange Bearing **ALL52130**

Self-aligning flange bearing has a .757" I.D. and installs in the firewall to accept the steering shaft. Includes locking collar. Bearing allows shaft to angle up to 40°.



## Oversize Rod End Kit

### **ALL52132**

Mounts to steering column bracket to hold steering shaft in place. Kit includes one rod end and two steel 3/4" RH jam nuts. Rod end is .757" I.D. (.007" oversized) to slide over a 3/4" O.D. shaft.



## Steering Shaft Rod End Mounting Tab

### **ALL52133**

Gusseted weld-on tab provides an excellent mounting point for the 3/4" oversized rod end (ALL52132) when building custom steering shaft assemblies. Tab is designed to cradle into round chassis tubing with built-in gussets, adding strength and reducing flex.



## Collapsible Steering Shafts



Collapsible shaft is designed to be used in-line near the rack and pinion or steering box, allowing steering shaft compression. For proper installation, shaft should be extended when installed. The heavy-wall, 1.140" diameter tubular steel shaft has 3/4"-20 splines on both ends. The durable rubber boot keeps the sliding mechanism free of dirt and debris.

**Note:** This shaft is NOT designed for directly attaching a steering wheel disconnect.

**ALL52170** ..... Long Assembly 24-1/2", Collapses 7"  
**ALL52171** ..... Short Assembly 13-1/2", Collapses 3"

## Replacement Component

**ALL52172** ..... Rubber Boot

## Steering Column Brackets

Stamped-steel brackets weld to dash bars to create a mounting point for steering shaft when using a 3/4" oversized rod end.

Brackets are 3-1/8" wide and available in a variety of lengths to fit most applications. 4" and longer brackets are pre-notched for 1-1/2" dash bars but are easily modified to fit other size bars.

**ALL52120** ..... 2-1/2" Long  
**ALL52122** ..... 4" Long  
**ALL52124** ..... 8" Long  
**ALL52126** ..... 10" Long



## Clamp-On Steering Column Bracket

### **ALL52128**

Aluminum bracket clamps to 1-3/4" tubing and is 7-1/2" center-to-center. Mounting bolts face the seat, so the driver can easily adjust the column up and down while sitting in the seat. An oversize rod end (sold separately, ALL52132) mounts horizontally through a 3/4" hole, allowing some left to right adjustment without moving the bracket or notching the interior panel.



## Steering Quickener Bracket

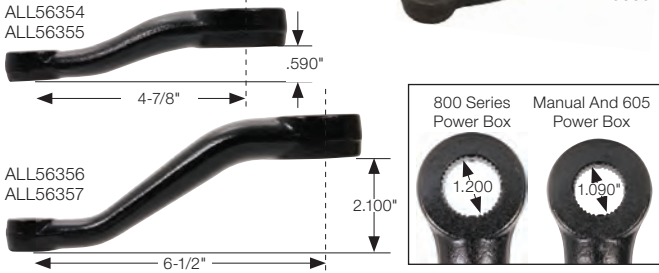
### **ALL60028**

Mounts all popular steering quickeners including AFCO, Coleman and Howe. Bracket has two holes spaced 1-3/4" apart, and may be welded to 1-1/2" or 1-3/4" diameter tubing.



## Pitman Arms

Replacement GM Pitman arms.



### A-Body (Chevelle)

- ALL56354** .... '68-72, Use w/ 800 Series Power Box
- ALL56355** .... '68-72, Use w/ Manual and 605 Small Power Box

### G-Body Intermediate Metric (Monte Carlo)

- ALL56357** .... '78-88, Use w/ 800 Series Power Box
- ALL56356** .... '78-88, Use w/ Manual and 605 Small Power Box

## Pitman Arm Nut Kit

**ALL56358**

Kit includes 7/8"-14 steel nut and lock washer.



## Centerlinks



Centerlinks fit GM applications. Mounting hardware included.

Allstar	Moog	Description	Year
<b>ALL56310</b>	DS749	Buick Special, Skylark, Grand Sport	'68-72
		Chevrolet Chevelle, El Camino, Monte Carlo	
		Oldsmobile Cutlass, Hurst, 442	
<b>ALL56311</b>	DS808	Buick Century, Regal	'73-77
		Chevrolet Chevelle, El Camino	
		Oldsmobile Cutlass, Hurst, 442	
<b>ALL56312</b>	DS909	Buick Century, Regal, GN, GNX	'78-81
		Chevrolet Malibu, El Camino, Monte Carlo	'78-88
		Pontiac Bonneville	'82-86
		Pontiac Grand Prix	'78-87
<b>ALL56313</b>	DS899	Cadillac Fleetwood, Brougham, Deville	'77-84
		Chevrolet Caprice, Impala, Impala SS	'77-96
		Oldsmobile Delta 88	'77-85
		Pontiac Bonneville, Catalina	'77-81
		Pontiac Parisienne	'83-86
<b>ALL56314</b>	DS829	Chevrolet Camaro (1970-73 with Power Steering, All 1974-79, 1980-81 V8)	'70-81
		Pontiac Firebird And Trans Am (V8)	'80-81
<b>ALL56316*</b>	DS1049	Chevrolet Camaro	'82-92

\*Commonly used on INT GM metric chassis to correct bump steer

## Adjustable Centerlinks



Centerlinks add strength and adjustability. Correct bump steer with specially designed inserts (available separately or in kits). Insert kits include one each of four different offsets. Lower center design adds engine oil pan clearance. OEM frame cross member must be modified.

**ALL56330** .... Centerlink, Metric GM '78-88

**ALL56331** .... Centerlink, Camaro '70-81

Note: some applications may require early style (shorter) Pitman arms.

### Replacement Components

**ALL99084** .... Stud for ALL56330 Pitman End (Long)

**ALL99085** .... Stud for ALL56330 Idler End (Short)

**ALL99086** .... Stud for ALL56331 Pitman End (Long)

**ALL99087** .... Stud for ALL56331 Idler End (Short)

**ALL99088** .... Centerlink Shims, 12-Pack (6 each .030"/.060")

## Inserts For Adjustable Centerlinks

Adjustable centerlink inserts have tapered or straight-through designs. Tapered inserts have a 1-1/2" per foot taper and are commonly used with stock type inner tie rods, while straight-through design are for use with a 5/8" bolt and rod end.



Description	Tapered Inserts	Straight-Through Inserts
Insert Kit (Centered, 1/8", 1/4", and 3/8")	<b>ALL56334</b>	<b>ALL57334</b>
Centered	<b>ALL56335</b>	<b>ALL57335</b>
1/8" Offset	<b>ALL56336</b>	<b>ALL57336</b>
1/4" Offset	<b>ALL56337</b>	<b>ALL57337</b>
3/8" Offset	<b>ALL56338</b>	<b>ALL57338</b>

## Idler Arms

OE replacement parts.

Allstar	Moog	Application
<b>ALL56344</b>	K5143	'68-72 Chevelle, '70-72 Monte Carlo
<b>ALL56345</b>	K6187	1978-88 Monte Carlo
<b>ALL56347</b>	K6186	1970-81 Camaro, 1975-79 Nova



## GM Metric Adjustable Idler Arm **ALL56341**

Adjustable arm for 1978-88 GM Metric G-body cars features a threaded assembly which aids in correcting bump steer problems by lowering the arm up to 3/4" compared to OE style arm. Arm is constructed of forged steel components so there are no plastic parts or springs to wear out like OEM style arms. Not legal in all sanction bodies.



## Tie Rod Ends

OE replacement parts.



Allstar	Moog	Description	Size (Thread and Length)	Application
<b>ALL55900</b>	ES323R	Inner Tie Rod	5/8"-18 RH Thread x 4" Long	1963-82 Corvette, 1963-64 GMC Truck
<b>ALL55901</b>	ES323L	Inner Tie Rod	5/8"-18 LH Thread x 4" Long	1963-82 Corvette, 1963-64 GMC Truck
<b>ALL55902</b>	ES370R	Inner Tie Rod	5/8"-18 RH Thread x 7-1/4" Long	1965-68 Impala, 1965-70 Chevrolet P/U
<b>ALL55903</b>	ES2034RLT	Inner Tie Rod	5/8"-18 LH Thread x 8-1/2" Long	1978-88 Monte Carlo (G-Body)
<b>ALL55920</b>	ES2033RLT	Outer Tie Rod	5/8"-18 RH Thread x 8-1/2" Long	1978-88 Monte Carlo (G-Body)
<b>ALL55921</b>	ES333RL	Outer Tie Rod	5/8"-18 RH Thread x 8-1/2" Long	1964-70 Chevelle
<b>ALL55904</b>	ES681N	Inner Tie Rod	5/8"-18 LH Thread x 9" Long	1968-70 Chevelle/Malibu
<b>ALL55910</b>	ES2020RLT	Inner Tie Rod	11/16"-18 LH Thread x 9" Long	1973-77 Chevelle, 1977-96 Impala
<b>ALL55911</b>	ES442L	Inner Tie Rod	11/16"-18 LH Thread x 9" Long	1975-81 Camaro, Left
<b>ALL55912</b>	ES443L	Inner Tie Rod	11/16"-18 LH Thread x 9" Long	1975-81 Camaro, Right
<b>ALL55922</b>	ES2019RLT	Outer Tie Rod	11/16"-18 RH Thread x 9" Long	1977-96 Impala

## Steel Tie Rod Tubes

Steel tubes are built from 7/8" O.D., .083" wall D.O.M tubing and swaged to accept 5/8" rod ends or O.E. style tie rod ends with 5/8-18 threads. Tubes are threaded LH on one end and RH on the other end for easy adjustments.



- |                               |                               |
|-------------------------------|-------------------------------|
| <b>ALL57160</b> ..... 8"      | <b>ALL57172</b> .... 14"      |
| <b>ALL57162</b> ..... 9"      | <b>ALL57173</b> .... 14-1/2"  |
| <b>ALL57164</b> ..... 10"     | <b>ALL57174</b> ..... 15"     |
| <b>ALL57166</b> ..... 11"     | <b>ALL57175</b> ..... 15-1/2" |
| <b>ALL57167</b> ..... 11-1/2" | <b>ALL57176</b> .... 16"      |
| <b>ALL57168</b> ..... 12"     | <b>ALL57178</b> .... 17"      |
| <b>ALL57169</b> ..... 12-1/2" | <b>ALL57180</b> .... 18"      |
| <b>ALL57170</b> ..... 13"     | <b>ALL57182</b> .... 19"      |
| <b>ALL57171</b> ..... 13-1/2" | <b>ALL57184</b> .... 20"      |

See Pages 194-195 for Additional Steering/Suspension Tubes.

## 5/8" Bent Steel Tie Rod Tubes

Bent tie rod tube or adjusting sleeve is commonly used on Modifieds and Stock Cars to provide additional clearance on the right front tie rod link. Bent design tube helps prevent the chassis from hitting steering components when the suspension rolls over onto the right front. Typically used with factory style inner tie rod end and a rod end style outer. Tube is constructed of .160" wall 7/8" O.D. steel tubing with 5/8"-18LH threads on the straight end and 5/8"-18RH threads on the curved end.



- |                               |                              |
|-------------------------------|------------------------------|
| <b>ALL57008</b> .... 10"      | <b>ALL57018</b> .... 15"     |
| <b>ALL57010</b> ..... 11"     | <b>ALL57019</b> .... 15-1/2" |
| <b>ALL57012</b> ..... 12"     | <b>ALL57020</b> .... 16"     |
| <b>ALL57013</b> ..... 12-1/2" | <b>ALL57021</b> .... 16-1/2" |
| <b>ALL57014</b> ..... 13"     | <b>ALL57022</b> .... 17"     |
| <b>ALL57015</b> ..... 13-1/2" | <b>ALL57024</b> .... 18"     |
| <b>ALL57016</b> ..... 14"     | <b>ALL57026</b> .... 19"     |
| <b>ALL57017</b> ..... 14-1/2" | <b>ALL57028</b> .... 20"     |

## Dropped Steel Tie Rod Tubes

Dropped steel tie rod tubes are popular on modifieds and street stocks providing additional clearance on the right front tie rod assembly. Tube is .156" wall, 7/8" OD, with 5/8"-18RH threads located on the inside/ center link end and 5/8"-18LH threads on the outer/spindle end. Length stated is overall length of tube.



- |   |
|---|
| <b>ALL57040-10</b> ..... 10"            |
| <b>ALL57040-11</b> ..... 11"            |
| <b>ALL57040-15</b> ..... 15"            |
| <b>ALL57040-16</b> ..... 16"            |
| <b>ALL57040-17</b> ..... 17" <b>NEW</b> |

## Steel Tie Rod Tubes, with 5/8" RH and 11/16" LH

Swaged D.O.M. steel tube has a 1" O.D. and is commonly used with an O.E. style 11/16"-18 LH inner tie rod end and a 5/8" RH rod end.

- |                          |
|--------------------------|
| <b>ALL57302</b> .... 9"  |
| <b>ALL57304</b> .... 10" |
| <b>ALL57306</b> .... 11" |



## Tie Rod Adjusting Sleeves

O.E. style replacement sleeves fit many applications and have LH and RH threads for easily adjusting the toe setting.



Allstar	Moog	Size (Thread and Length)
<b>ALL55930</b>	ES2032S	5/8"-18 x 4-1/2" Long
<b>ALL55931</b>	ES2004S	11/16"-18 x 4-3/4" Long

## Steering Rack Boot Cover

### ALL52345

Neoprene covers fit most steering racks and helps protect against rocks and debris. Hook-and-loop closure makes installation and removal simple.







## Taper Reamers

Repair or enlarge tapered holes to accept tie rod ends or ball joints. Reamer may be used in a drill with a 1/2" chuck by removing the T-handle.

**ALL11170**..... 1-1/2" Per Ft. 7.15°

**ALL11172**..... 2" Per Ft. 9.56°



### Taper Reamer Specifications for Ball Joints

Ball Joint	Taper Specs	Ball Joint	Taper Specs
<b>ALL56204</b>	1-1/2" Per Ft.	<b>ALL56217</b>	1-1/2" Per Ft.
<b>ALL56206</b>	2" Per Ft.	<b>ALL56218</b>	2" Per Ft.
<b>ALL56208</b>	2" Per Ft.	<b>ALL56220</b>	2" Per Ft.
<b>ALL56210</b>	1-1/2" Per Ft.	<b>ALL56280</b>	1-1/2" Per Ft.
<b>ALL56212</b>	2" Per Ft.	<b>ALL56284</b>	1-1/2" Per Ft.
<b>ALL56214</b>	1-1/2" Per Ft.	<b>ALL56286</b>	1-1/2" Per Ft.
<b>ALL56216</b>	1-1/2" Per Ft.	-	-

## Inner Tie Rod Stud **ALL56278**

Stud replaces the stock inner tie rod end, allowing a 5/8" rod end to be used on both ends of the steering link. Inner tie rod stud and rod end combination also provides additional steering clearance compared to O.E. style inner tie rod and crossmember.



## Bump Steer Studs

Studs replace the OE style outer tie rod end when converting to a 5/8" spherical rod end with a suspension/steering tube and features a 1-1/2" per foot taper to work with most popular spindles or rack eye. Kits include a stud, self-locking nuts, one .100" spacer and three .300" spacers to simplify setting bump steer; the ALL56286 also includes a .500" spacer.

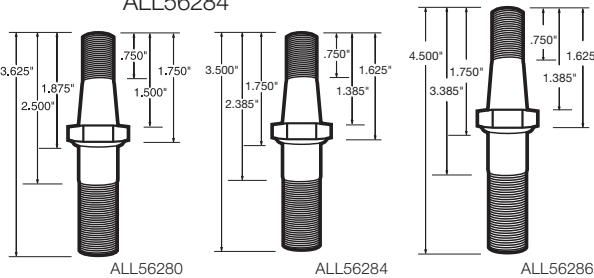


ALL56280

**ALL56280** .... Bump Steer Kit, Rack Eye Taper

**ALL56284** .... Bump Steer Kit Mustang II

**ALL56286** .... Bump Steer Kit 1" Longer Shank Than ALL56284



## Set-Up Plates

Set-up plates are used for squaring and stringing chassis to ensure accurate chassis set-up by eliminating wheel and tire differences. Plates are 1/2" thick and can also be used when setting bump steer or checking axle tubes for straightness. Sold each.

**ALL10660**..... 5x5, 7" x 28"

**ALL10662**..... Wide 5, 12" x 28"



ALL10660

## Bump Steer Kit **ALL18600**

Kit includes a 5/8"-18 x 3" bolt and 4 spacers (.100", .200", .300", and .500").



## Bump Steer Spacer Kit **ALL18601**

Steel spacers have a 5/8" I.D. and are commonly used to space a steering rod end when correcting bump steer.

Kit includes 7 spacers, one of each size: .030", .060", .100", .200", .300", .400", and .500".



## Bump Steer Spacers

Steel spacers have a 5/8" I.D. and are commonly used to space a steering rod end when correcting bump steer.

Size	2-Pack	10-Pack
.030"	<b>ALL18602</b>	<b>ALL18602-10</b>
.060"	<b>ALL18603</b>	<b>ALL18603-10</b>
.100"	<b>ALL18604</b>	<b>ALL18604-10</b>
.200"	<b>ALL18605</b>	<b>ALL18605-10</b>
.300"	<b>ALL18606</b>	<b>ALL18606-10</b>
.400"	<b>ALL18607</b>	<b>ALL18607-10</b>
.500"	<b>ALL18608</b>	<b>ALL18608-10</b>



## Tie Rod Spacer **ALL56288**

Spacer corrects bump steer on vehicles that use a rod end as an outer tie rod end. Spacer is used between the spindle arm and the rod end. Steel spacer is 2" tall and has a 5/8" hole.



## Rack and Pinion Spacers

Place aluminum spacers between chassis and rack assembly to help achieve proper front end geometry.

**ALL52350** .... 3/8"

**ALL52351** .... 1/2"

**ALL52352** .... 3/4"



## Toe Plates

Aluminum plates simplify setting of toe-in and toe-out. Plates fit against outside edges of tires. Using two tape measures (sold separately), measure the distance between plates front and rear. The difference in tape readings is the toe setting. Deluxe plates have radiused edges, slots for narrow and wide tape measures and are 9" tall x 23" wide to work with vehicles with smaller wheel openings. Standard plates are 1/2" thick, 11" tall x 32" wide and work well for vehicles with larger wheels and wheel openings. Set of two plates.



ALL10117



ALL10119

**ALL10117** ..... Standard

**ALL10119** ..... Deluxe

## Mustang II Spindles

Mustang II/Pinto spindles are direct replacements for stock O.E. spindles featuring the stock 10° pin inclination and upper and lower ball joint tapers. Spindles accept Granada or Hybrid style rotors with corresponding caliper brackets, calipers and brake pads. IMCA-approved spindles feature the official IMCA stamp of approval cast into the spindle.

### Stock Height Spindles

- ALL56307** .... Spindles, Pair
- ALL56308** .... Spindle LH
- ALL56309** .... Spindle RH
- ALL56303** .... Spindle LH IMCA Approved
- ALL56304** .... Spindle RH IMCA Approved



### 2" Dropped Spindles

- ALL56305** .... Spindles, Pair

### Related Components

- ALL42110** ..... LH Caliper Bracket for Granada Rotor
- ALL42111** ..... RH Caliper Bracket for Granada Rotor
- ALL42118** ..... LH Caliper Bracket for Hybrid Rotor
- ALL42119** ..... RH Caliper Bracket for Hybrid Rotor
- ALL42084** .... LH GM Metric Caliper
- ALL42083** .... RH GM Metric Caliper
- ALL72308** .... Granada Master Bearing and Seal Kit
- ALL72309** .... Hybrid Master Bearing and Seal Kit

## Mustang II Spindles with Reamed Lower Ball Joint Hole

Mustang II/Pinto spindles are stock appearing and available with 10° (OE) or 8° pin inclination and 1-1/2" or 2" per foot lower ball joint taper. Spindles accept Granada or Hybrid style rotors with corresponding caliper brackets, calipers and brake pads. Spindle arms have been reamed to a straight hole to accept a 5/8" bolt and rod end.



### 10° (OE) Pin Inclination

Part No.		Lower B/J Taper	Lower B/J Major Dia.	Common Lower B/J	B/J
<b>ALL55996</b>	LH	1-1/2"	.830"	<b>ALL56216</b> (K727)	Screw-In
<b>ALL55997</b>	RH	1-1/2"	.830"	<b>ALL56216</b> (K727)	Screw-In
<b>ALL55998</b>	LH	2"	.830"	<b>ALL56212</b> (K6117)	Press-In
<b>ALL55999</b>	RH	2"	.830"	<b>ALL56212</b> (K6117)	Press-In

### 8° Pin Inclination

Part No.		Lower B/J Taper	Lower B/J Major Dia.	Common Lower B/J	B/J
<b>ALL55990*</b>	LH	1-1/2"	.710"	-	-
<b>ALL55991*</b>	RH	1-1/2"	.710"	-	-
<b>ALL55994</b>	LH	1-1/2"	.830"	<b>ALL56216</b> (K727)	Screw-In
<b>ALL55995</b>	RH	1-1/2"	.830"	<b>ALL56216</b> (K727)	Screw-In
<b>ALL55992</b>	LH	2"	.830"	<b>ALL56212</b> (K6117)	Press-In
<b>ALL55993</b>	RH	2"	.830"	<b>ALL56212</b> (K6117)	Press-In

\*This spindle features a steering arm with an OE style taper.

### Related Components

- ALL42110** ..... LH Caliper Bracket for Granada Rotor
- ALL42111** ..... RH Caliper Bracket for Granada Rotor
- ALL42118** ..... LH Caliper Bracket for Hybrid Rotor
- ALL42119** ..... RH Caliper Bracket for Hybrid Rotor
- ALL42084** .... LH GM Metric Caliper
- ALL42083** .... RH GM Metric Caliper
- ALL72308** .... Granada Master Bearing and Seal Kit
- ALL72309** .... Hybrid Master Bearing and Seal Kit

## Mustang II 3-Piece Spindles

Modular design 3-piece Mustang II style spindle features a separate spindle body with bolt-on caliper bracket and steering arm for easy and affordable repairs. Spindle uses a GM metric brake rotor, bearings and brake caliper while combining the features of a typical Mustang II spindle including an 8° pin inclination and a short steering arm with a straight hole for using a 5/8" rod end. Spindle accepts popular ALL56204 (K6024) bolt-in or ALL56214 (K772) screw-in style upper ball joint and a stock 1979-88 G-body lower ball joint. IMCA approved for IMCA modifieds and sport mod divisions.



ALL55971

- ALL55970** .... LH, 3-Piece Spindle Kit
- ALL55971** .... RH, 3-Piece Spindle Kit

### Individual Components

- ALL55974** ..... Spindle Body
- ALL55972** .... LH Steering Arm
- ALL55973** .... RH Steering Arm
- ALL55981** .... LH Brake Bracket
- ALL55982** .... RH Brake Bracket
- ALL55983** .... Hardware Kit



ALL55972

ALL55974

ALL55981

ALL55983

### Related Components

- ALL42083** .... GM Metric Caliper, RH
- ALL42084** .... GM Metric Caliper, LH 1979-81
- ALL42086** .... Rotor with 5/8"-11 Wheel Studs, 5 on 5" B.C.
- ALL72305**†... Bearing and Seal Kit 1982-88
- ALL42087** .... Rotor with M12-1.50 Wheel Studs, 5 on 4-3/4" B.C.
- ALL42088** .... Rotor with 5/8"-11 Wheel Studs, 5 On 5" B.C.
- ALL72306**‡... Bearing and Seal Kit 1979-81

†Bearing for Race or Cup with a 1.97" O.D.

‡Bearing for Race or Cup with a 1.78" O.D.

## AMC Pacer Spindles

The Pacer spindle is a modular design which allows the spindle to interchange from left to right by flipping the steering arm. Spindle features a 7° pin inclination with a 1-1/2" per foot upper ball joint taper. Spindle also uses the same spindle pin as the Mustang II/Pinto which accepts Hybrid style 10-1/8" rotors. Caliper bracket for GM metric caliper/Hybrid 10-1/8" rotor is sold separately. Steering arm has been reamed to a straight hole to accept a 5/8" bolt and rod end.



- ALL55960** .... Spindle w/ 1-1/2" (.750" Maj. Dia.) Lower B/J Taper
- ALL55961** .... Spindle w/ 2" (.830" Maj. Dia.) Lower B/J Taper

### Individual Components

- ALL55963** .... Bolt Kit
- ALL55964** .... Steering Arm
- ALL55965** .... Spindle Pin
- ALL55966** .... Spindle Body 1-1/2" B/J
- ALL55967** .... Spindle Body 2" B/J

### Related Components

- ALL55962** .... Caliper Bracket Kit (1 side)
- ALL42084** .... LH GM Metric Caliper
- ALL42083** .... RH GM Metric Caliper
- ALL72309** .... Hybrid Master Bearing and Seal Kit

## Master Wheel Bearing and Seal Kits

Kits contain all components to install one brake rotor/hub assembly including hub seal, inner bearing, outer bearing, locknut kit, and dust cap.



ALL72305

- ALL72305**† ... GM Intermediate Metric, 1979-81
- ALL72306**‡ ... GM Intermediate Metric, 1982-88
- ALL72308** .... Ford Granada, Mustang II
- ALL72309** .... Mustang II

†Bearing for Race or Cup with a 1.97" O.D.  
‡Bearing for Race or Cup with a 1.78" O.D.

## Metric Spindles

Replacement spindles for 1979-88 GM cars. Sold each.



- ALL56318**.... LH
- ALL56319**.... RH

### Related Components

- ALL42084** .... LH GM Metric Caliper
- ALL42083** .... RH GM Metric Caliper
- ALL72305**† ... Master Bearing Kit, 1979-81
- ALL72306**‡ ... Master Bearing Kit, 1982-88

†Bearing for Race or Cup with a 1.97" O.D.  
‡Bearing for Race or Cup with a 1.78" O.D.

### Brake Rotor 1979-81

Outer bearing race has a 1.97" O.D.

- ALL42086** .... Rotor with 5/8"-11 Wheel Studs, 5 on 5" B.C.

### Brake Rotors 1982-88

Outer bearing race has a 1.78" O.D.

- ALL42087** .... Rotor with M12-1.50 Studs, 5 on 4-3/4" B.C.
- ALL42088** .... Rotor with 5/8"-11 Wheel Studs, 5 on 5" B.C.

## Metric Spindle Savers

### ALL42130

Stamped steel spindle savers strengthen GM Metric spindles, reinforcing the steering arm portion of the spindle and making them suitable for wheel-to-wheel racing. IMCA legal and easily installed, spindle savers are retained by the lower ball joint and tie rod end retaining nuts. Sold in pairs.



### Individual Component

- ALL42135**.... Left Only
- ALL42136**.... Right Only



## Spindle Slug Tool ALL11182

Tool easily removes spindle slugs that are pressed into fabricated spindles with a standard wrench or socket.

## GM Metric 3-Piece Spindles

Three-piece GM metric G-Body spindle is a forged and heat-treated direct replacement for a factory spindle with the added benefit of a stronger, replaceable steering arm and brake caliper bracket.



ALL55976

Complete spindle includes a spindle body, bolt-on steering arm, bolt-on brake bracket, and a hardware kit. Spindle accepts stock 1979-88 G-body upper and lower ball joints, tie rod end, rotor, caliper, and bearing kit. IMCA approved. Replacement components are also available for quick, easy and affordable repairs.

- ALL55976** .... LH, 3-Piece Spindle Kit
- ALL55977** .... RH, 3-Piece Spindle Kit.



ALL55980



ALL55978



ALL55981



ALL55983

### Individual Components

- ALL55980** .... Spindle Body
- ALL55978** .... LH Steering Arm
- ALL55979** .... RH Steering Arm
- ALL55981** .... LH Brake Bracket
- ALL55982** .... RH Brake Bracket
- ALL55983** .... Hardware Kit

### Related Components

- ALL42083** .... GM Metric Caliper, RH
- ALL42084** .... GM Metric Caliper, LH 1979-81
- ALL42086** .... Rotor with 5/8"-11 Wheel Studs, 5 on 5" B.C.
- ALL72305**†... Bearing and Seal Kit 1982-88
- ALL42087** .... Rotor with M12-1.50 Wheel Studs, 5 on 4-3/4" B.C.
- ALL42088** .... Rotor with 5/8"-11 Wheel Studs, 5 on 5" B.C.
- ALL72306**‡... Bearing and Seal Kit 1979-81

†Bearing for Race or Cup with a 1.97" O.D.  
‡Bearing for Race or Cup with a 1.78" O.D.

## Impala Spindles

Direct replacement OE spindle for the #2 1977-96 Impalas, which is a popular choice on asphalt sportsman and modifieds requiring more brake. Spindle accepts the larger 11-7/8" x .970 rotor with the 5x5 bolt pattern and large GM brake calipers. Spindle also features a 12° pin inclination and 2" per foot taper upper (K5208) and lower (K6145 or 10277) ball joints.



- ALL55988** .... LH
- ALL55989** .... RH

### Related Components

- ALL42081** .... Brake Caliper Big GM RH
- ALL42082** .... Brake Caliper Big GM LH



## Upper Ball Joints

### Screw-In

#### ALL56214 (K772)

Most popular upper ball joint used. Originally used in Dodge, Chrysler, and Plymouth cars. Fits Allstar ball joint holders and Lefthander chassis style upper control arm or where a screw-in type ball joint is required. (Replaces Moog K772 or AFCO 20034.) 1-1/2" taper per foot.

Note: Actual product may appear different than product pictured.



### Bolt-In

#### ALL56204 (K6024)

Fits UB Machine style upper control arm where a bolt-in style ball joint is required. (Replaces Moog K6024, TRW 10185, or AFCO 20031.) Outer mounting bolt holes are 2.82" CTC. 1-1/2" taper per foot.

Note: Actual product may appear different than product pictured.



#### ALL56208 (K6136)

Bolt-in type joint fits Impala spindle. Can be used to raise roll center on street stock and modified cars. Fits Impala, Camaro, and Chevelle spindles. (Replaces Moog K6136, TRW 10269, or AFCO 20032-1). Outer mounting bolt holes are 2.82" CTC. 2" taper per foot.

Note: Actual product may appear different than product pictured.



#### ALL56220 (K5208)

Fits full-size 1971-94 Impala spindles. Also fits 1971-81 Camaro and 1973-88 Chevelle/Monte Carlo. Replaces Moog K5208, TRW 10268, or AFCO 20032. Outer mounting bolt holes are 2-1/2" CTC. 2" taper per foot.

Note: Actual product may appear different than product pictured.



### Steel Upper Ball Joint Wrench

#### ALL11190

Easily remove and install small body (ALL56214) Chrysler ball joints.



### Ball Joint Spreader Tool ALL11174

Tool separates ball joint from the spindle. Inside of cylinder is shaped to fit over tapered stud of most ball joints and presses against stud of other ball joint. Not for use on FWD or 4WD applications. Tool is 4" tall fully collapsed and 6" tall fully extended.

#### Related Component

ALL11175..... 1" Extensions (Set of 2)



ALL11175

## Lower Ball Joints

### Screw-In

#### ALL56216 (K727)

Fits Lefthander chassis style lower control arm or where a large screw-in type ball joint is required. (Replaces - Moog K727 or AFCO 20036). 1-1/2" taper per foot.

Note: Actual product may appear different than product pictured.



#### ALL56217 (K719)

Compatible with stock lower control arms modified with UB Machine UBM40-3303 or Allstar ALL56250 weld-in threaded sleeve. (Replaces - Moog K719). 1-1/2" taper per foot.

Note: Actual product may appear different than product pictured.



### Press-In

#### ALL56206 (K6141)

Ball joint fits most tubular lower CT control arms and 1971-76 Impala. Taper fits most fabricated and Impala spindles. Base O.D. is 2.190". Replaces AFCO 20038. 2" taper per foot.



#### ALL56210 (K5103)

Weld-in lower joint fits 1964-72 Chevelle and 1967-69 Camaro, control arms and spindle. Base O.D. is 2.015" (replaces Moog K5103, TRW 10197, or AFCO 20033). 1-1/2" taper per foot.

Note: Actual product may appear different than product pictured.



#### ALL56212 (K6117)

Weld-in joint fits Impala spindle. Can be used to raise the roll center on street stock or modified cars. Base O.D. is 1.975". (Replaces - Moog K6117, TRW 10264, or AFCO 20038-1). 2" taper per foot.

Note: Actual product may appear different than product pictured.



#### ALL56218 (K6145) (10277)

Fits popular full-size 1977-96 Impala spindles. Also fits 1971-81 Camaro and 1973-88 Chevelle/G-Body. Base O.D. is 2.090" (replaces - Moog K6145, TRW 10277, or AFCO 20039). 2" taper per foot.

Note: Actual product may appear different than product pictured.





## Non-Take-Apart Low-Friction Ball Joints

Low-friction, economical OEM ball joints are high-performance units designed for smooth suspension travel. Some ball joints are available with longer-than-stock pin length for correcting roll centers. Ball joints have hardened pins with stock type housings and are not rebuildable. Legal for classes that require non-take apart ball joints as these are non-serviceable. For off-road use only.



## Upper Ball Joints

Part No.	Style	Size	Pin Length	Taper	Reference	Repl. Pin Only	Take-Apart Style
<b>ALL56010</b>	Screw-In	Small	Standard	1-1/2"	K772	-	<b>ALL56810</b>
<b>ALL56011</b>	Screw-In	Small	1/2" Longer	1-1/2"	K772	-	<b>ALL56811</b>
<b>ALL56012</b>	Screw-In	Small	1" Longer	1-1/2"	K772	-	<b>ALL56812</b>
<b>ALL56008</b>	Screw-In	Small	1-1/2" Longer	1-1/2"	K772	-	-
<b>ALL56009</b>	Screw-In	Small	2" Longer	1-1/2"	K772	-	-
<b>ALL56014</b>	Bolt-In	Large	Standard	1-1/2"	K6024	-	-
<b>ALL56015</b>	Bolt-In	Large	3/8" Longer	2"	K6136	-	-
<b>ALL56018</b>	Bolt-In	Small	Standard	2"	K5208	-	-
<b>ALL56019</b>	Bolt-In	Small	1/2" Longer	2"	K5208	-	-
<b>ALL56020</b>	Bolt-In	Small	1" Longer	2"	K5208	-	-

## Lower Ball Joints

Part No.	Style	Size	Pin Length	Taper	Reference	Repl. Pin Only	Take-Apart Style
<b>ALL56030</b>	Screw-In	Large	Standard	1-1/2"	K727	-	<b>ALL56815</b>
<b>ALL56031</b>	Screw-In	Large	1/2" Longer	1-1/2"	K727	-	<b>ALL56816</b>
<b>ALL56034</b>	Screw-In	Large	Standard	2"	K727 w/ K6141 Pin	-	<b>ALL56820</b>
<b>ALL56035</b>	Screw-In	Large	1/2" Longer	2"	K727 w/ K6141 Pin	-	<b>ALL56821</b>
<b>ALL56049†</b>	Screw-In	Small	Standard	2"	K772 w/ K6141 Pin	-	<b>ALL56825†</b>
<b>ALL56050†</b>	Screw-In	Small	1/2" Longer	2"	K772 w/ K6141 Pin	-	<b>ALL56826†</b>
<b>ALL56051†</b>	Screw-In	Small	1" Longer	2"	K772 w/ K6141 Pin	-	<b>ALL56827†</b>
<b>ALL56042</b>	Press-In	Chevelle	Standard	1-1/2"	K5103	-	-
<b>ALL56027</b>	Press-In	Chevelle	Standard	2"	K5103 w/ K6141 Pin	-	<b>ALL56830</b>
<b>ALL56028</b>	Press-In	Chevelle	1/2" Longer	2"	K5103 w/ K6141 Pin	-	<b>ALL56831</b>
<b>ALL56029</b>	Press-In	Chevelle	1" Longer	2"	K5103 w/ K6141 Pin	-	<b>ALL56832</b>
<b>ALL56044</b>	Press-In	-	Standard	2"	K6117	-	-
<b>ALL56046</b>	Press-In	-	Standard	2"	K6145	-	-
<b>ALL56047</b>	Press-In	-	1/2" Longer	2"	K6145	-	-
<b>ALL56048</b>	Press-In	-	1" Longer	2"	K6145	-	-

†Commonly used with ALL56256 ball joint adapter sleeve.



Tyler Erb



Kyle Brown



## Take-Apart Low-Friction Ball Joints

Low-friction serviceable ball joints are the same great quality you have come to expect from our original low friction ball joints with the ability to exchange pins to adjust roll center or make repairs. For off-road use only.

### Ball Joint Reference Guide

Reference Part #	Description	Application	Pin Taper Per Foot
<b>K772</b>	Small Upper Screw-In	Dodge, Chrysler, Plymouth	1-1/2" (.730"-.600")
<b>K727</b>	Large Lower Screw-In	Dodge, Chrysler, Plymouth	1-1/2" (.880"-.755")
<b>K5103</b>	Press-In Lower	1964-72 Chevelle, 1967-69 Camaro	1-1/2" (.775"-.670")
<b>K6141</b>	Press-In Lower	1971-76 Impala	2" (.825"-.675")
<b>K6145</b>	Press-In Lower	1973-88 Chevelle, GM Metric/G Body 1970-81 Camaro, 1977-96 Impala	2" (.775"-.625")



### Upper Ball Joints

Part No.	Style	Size	Pin Length	Pin TPF	Reference	Repl. Pin Only	Non-Take-Apart Style
<b>ALL56810</b>	Screw-In	Small	Std	1-1/2"	K772	<b>ALL56915</b>	<b>ALL56010</b>
<b>ALL56811</b>	Screw-In	Small	+1/2"	1-1/2"	K772	<b>ALL56920</b>	<b>ALL56011</b>
<b>ALL56812</b>	Screw-In	Small	+1"	1-1/2"	K772	<b>ALL56925</b>	<b>ALL56012</b>

### Lower Ball Joints

Part No.	Style	Size	Pin Length	Pin TPF	Reference	Repl. Pin Only	Non-Take-Apart Style
<b>ALL56815</b>	Screw-In	Large	Std	1-1/2"	K727	<b>ALL56935</b>	<b>ALL56030</b>
<b>ALL56816</b>	Screw-In	Large	+1/2"	1-1/2"	K727	<b>ALL56940</b>	<b>ALL56031</b>
<b>ALL56820</b>	Screw-In	Large	Std	2"	K727 w/ K6141 Pin	<b>ALL56955</b>	<b>ALL56034</b>
<b>ALL56821</b>	Screw-In	Large	+1/2"	2"	K727 w/ K6141 Pin	<b>ALL56960</b>	<b>ALL56035</b>
<b>ALL56822</b>	Screw-In	Large	+1"	2"	K727 w/ K6141 Pin	<b>ALL56965</b>	—
<b>ALL56825†</b>	Screw-In	Small	Std	2"	K772 w/ K6141 Pin	<b>ALL56955</b>	<b>ALL56049†</b>
<b>ALL56826†</b>	Screw-In	Small	+1/2"	2"	K772 w/ K6141 Pin	<b>ALL56960</b>	<b>ALL56050†</b>
<b>ALL56827†</b>	Screw-In	Small	+1"	2"	K772 w/ K6141 Pin	<b>ALL56965</b>	<b>ALL56051†</b>
<b>ALL56830</b>	Press-In	Chevelle	Std	2"	K5103 w/ K6141 Pin	<b>ALL56955</b>	<b>ALL56027</b>
<b>ALL56831</b>	Press-In	Chevelle	+1/2"	2"	K5103 w/ K6141 Pin	<b>ALL56960</b>	<b>ALL56028</b>
<b>ALL56832</b>	Press-In	Chevelle	+1"	2"	K5103 w/ K6141 Pin	<b>ALL56865</b>	<b>ALL56029</b>

†Commonly used with ALL56256 ball joint adapter sleeve.

## Build Your Own Ball Joints

**Step #1-Select Ball Joint Housing – Includes housing, housing cap and lock screws**

**NEW**

Part #	Description
<b>ALL56900</b>	K772 Housing (Small Screw-In Upper)
<b>ALL56904</b>	K727 Housing (Large Screw-In Lower)
<b>ALL56905</b>	K5103 Housing (Press-In Lower 1964-72 Chevelle)
<b>ALL56906</b>	K6145 Housing (Press-In Lower GM Metric/G-Body)



**Step #2-Select Ball Joint Pin- Includes pin, nut and locking pin.**

Pin Length	K772 Pin	K727 Pin	K6141 PIN	K6145 PIN
	1-1/2" TPF	1-1/2" TPF	2" TPF	2" TPF
Part #	Part #	Part #	Part #	
-.500"	<b>ALL56910</b>	—	—	—
Standard	<b>ALL56915</b>	<b>ALL56935</b>	<b>ALL56955</b>	<b>ALL56975</b>
+.100"	<b>ALL56916</b>	<b>ALL56936</b>	<b>ALL56956</b>	—
+.200"	<b>ALL56917</b>	<b>ALL56937</b>	<b>ALL56957</b>	—
+.300"	<b>ALL56918</b>	<b>ALL56938</b>	<b>ALL56958</b>	—
+.400"	<b>ALL56919</b>	<b>ALL56939</b>	<b>ALL56959</b>	—
+.500"	<b>ALL56920</b>	<b>ALL56940</b>	<b>ALL56960</b>	<b>ALL56980</b>
+1"	<b>ALL56925</b>	—	<b>ALL56965</b>	<b>ALL56985</b>
+1-1/2"	<b>ALL56926</b>	—	—	—
+2"	<b>ALL56927</b>	—	—	—





## Straight Pin Take-Apart Low-Friction Ball Joints

Low-friction straight pin ball joints are designed to fit spindles with straight-through 3/4" mounting holes. Straight pin design allows height adjustment by relocating the shim stack for more accurate and precise changes versus changing out entire pin. For off-road use only.

Note: Machining of most standard spindles from tapered to straight through mounting holes is required for use with this style ball joint.



Part No.	Style	Size	Housing Ref.	Adj Range
ALL56871	Screw-In	Small	K772	Std to 1" Pin
ALL56872	Screw-In	Small	K772	1" to 2" Pin
ALL56875	Screw-In	Large	K727	Std to 1" Pin
ALL56876	Screw-In	Large	K727	1" to 2" Pin
ALL56878	Press-In	Chevelle	K5103	Std to 1" Pin
ALL56879	Press-In	Chevelle	K5103	1" to 2" Pin

## Adjustable Upper Ball Joints



With mono-ball joints, upper control arm angles can be adjusted. Joints include plate, ball, tapered shaft, adjuster bushings, and nut.

- ALL56260 .... LH Large GM (ALL56204 /K6024 Style)
- ALL56261 .... RH Large GM (ALL56204 /K6024 Style)
- ALL56264 .... LH Mid-Size GM (ALL56220 /K5208 Style)
- ALL56265 .... RH Mid-Size GM (ALL56220 /K5208 Style)
- ALL56267 .... Small Adjustable Screw-In (ALL56214 /K772 Style)

## Adjustable Lower Ball Joints

Replace standard ball joint with an adjustable mono-ball style lower ball joint. Includes adapter sleeve, ball, adjuster bushings, stud, and nut.

- ALL56270 .... Screw-In Chrysler Stud (Common Dirt, ALL56216 Style)
- ALL56276 ..... Screw-In GM Impala Stud (Common Asphalt) ALL56216 Style with ALL56206 Pin
- ALL56272 .... Press-In Large GM Impala Stud (Common Asphalt, ALL56206 Style)
- ALL56274 ..... Press-In Mid-Size GM Stud (ALL56218 Style)



## Ball Joint Sleeves

Steel sleeves allow custom fabrication of control arms.

- ALL56250 .... Small Screw-In ALL56214/ALL56217 (K772/K719)
- ALL56251 .... Large Screw-In ALL56216 (K727)
- ALL56252 .... Large Press-In ALL56206 (K6141)
- ALL56253 .... Med. Press-In ALL56212 (K6117)



## Ball Joint Adapter Sleeve

### ALL56256

Adapter sleeve is ideal for modifying stock style Chevelle lower control arms to accept a screw-in style ball joint. Adapter sleeve has an O.D. of 2.010" to take the place of a press-in style ball joint (ALL56210/ K5103), allowing for installation of a screw in style ALL56214 with a 1-1/2" taper/ft. pin or ALL56049 with a 2" taper/ft. pin ball joint.

Note: Modifications to control arms may be necessary for proper fit of sleeve. Sleeve must be welded to the control arm after installation.



## Adapter Bushing ALL56225

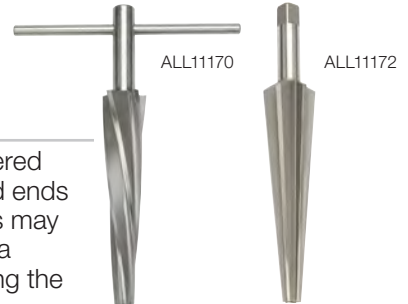
Convert a 2" taper per foot hole to accept a ball joint with a 1-1/2" taper per foot. For lower ball joints only.



## Taper Reamers

Repair or enlarge tapered holes to accept tie rod ends or ball joints. Reamers may be used in a drill with a 1/2" chuck by removing the T-handle.

- ALL11170 ..... Reamer, 7.15°, 1-1/2" Taper Per Ft.
- ALL11172 ..... Reamer, 9.56°, 2" Taper Per Ft.



## Taper Reamer Specifications for Ball Joints

Taper Per Ft.	Reference Part No.
1-1/2"	K6024
2"	K6141
2"	K6136
1-1/2"	K5103
2"	K6117
1-1/2"	K772
1-1/2"	K727
1-1/2"	K719
2"	K6145
2"	K5208



## Upper Control Arms

Powder-coated, bushing style A-arms are available with steel or aluminum cross shaft and a straight or 10° ball joint position. Shaft bolt holes are 1/2" diameter, spaced 6" on center. Tig-welded .095" D.O.M. tube construction. Bolt-in style arms accept ALL56204 or Moog K6024 ball joints. Screw-in style arms accept ALL56214 or Moog K772 ball joints.



## Universal Ball Joint Holder

**ALL56296**

Universal style holder can be used in LH or RH applications and works well for builders that fabricate their own upper control arms. Holder features a straight stud with 5/8"-18 threads, a straight tab with a 3/8" hole to mount a clevis and accepts the ALL56214 or Moog K772 style screw-in style ball joint.



Size	Bolt-In Alum. Shaft	Bolt-In Steel Shaft	Screw-In 10° Alum. Shaft	Screw-In 10° Steel Shaft
7"	-	-	<b>ALL57940</b>	-
7-1/4"	-	-	<b>ALL57941</b>	-
7-1/2"	<b>ALL57902</b>	<b>ALL57922</b>	<b>ALL57942</b>	<b>ALL57962</b>
7-3/4"	<b>ALL57903</b>	-	<b>ALL57943</b>	-
8"	<b>ALL57904</b>	<b>ALL57924</b>	<b>ALL57944</b>	<b>ALL57964</b>
8-1/4"	<b>ALL57905</b>	-	<b>ALL57945</b>	-
8-1/2"	<b>ALL57906</b>	<b>ALL57926</b>	<b>ALL57946</b>	<b>ALL57966</b>
8-3/4"	<b>ALL57907</b>	-	<b>ALL57947</b>	-
9"	<b>ALL57908</b>	<b>ALL57928</b>	<b>ALL57948</b>	<b>ALL57968</b>
9-1/4"	<b>ALL57909</b>	-	<b>ALL57949</b>	-
9-1/2"	<b>ALL57910</b>	<b>ALL57930</b>	<b>ALL57950</b>	<b>ALL57970</b>
9-3/4"	<b>ALL57911</b>	-	<b>ALL57951</b>	-
10"	<b>ALL57912</b>	<b>ALL57932</b>	<b>ALL57952</b>	<b>ALL57972</b>
10-1/4"	<b>ALL57913</b>	-	<b>ALL57953</b>	-
10-1/2"	<b>ALL57914</b>	<b>ALL57934</b>	<b>ALL57954</b>	<b>ALL57974</b>
11"	<b>ALL57916</b>	<b>ALL57936</b>	<b>ALL57956</b>	<b>ALL57976</b>

## Unwelded Ball Joint Holder Kit

**ALL56298**

Kit allows components to be welded at any angle. Stud is 5/8"-18RH thread, bracket has a 3/8" hole. Holder accepts ALL56214 or Moog K772 style screw-in upper ball joint.



## Female Double Adjusters

Steel double adjusters increase adjustment capability of control arms, trailing arms, Panhard bars, tie rod ends, and other items using threaded tube. Adjuster includes two jam nuts, one LH and one RH.



**ALL56198** .... 5/8"-18 RH Male/LH Female, 4" Long  
**ALL56199** .... 5/8"-18 LH Male/RH Female, 4" Long

## Metric Upper Control Arms

Tubular style upper control arms replace OE stamped style arms found on Mid-size GM metric chassis with mounts spaced 6-7/8" on center and accept bolt-in style ball joints. Arms feature steel cross shafts, a durable powder-coated finish, and greaseable pivot points for easy maintenance.



## Steel Clevises



Clevises are commonly used with a ball joint holder when building upper control arm or with strut style lower control arm when attaching suspension tube for a strut rod.

**ALL56192**..... 3/4"-16 RH Thread Clevis with 1/2" Holes  
**ALL56194** .... 5/8"-18 RH Thread Clevis with 3/8" Holes

## Control Arms for ALL56220 (K5208) Ball Joint

**ALL57990** .... RH, 8"  
**ALL57992** .... LH, 8-1/2"  
**ALL57994** .... LH, 9"  
**ALL57995** .... LH, 9-1/2"  
**ALL57996** .... LH, 10"

## Control Arms for ALL56204 (K6024) Ball Joint

**ALL57980** .... RH, 8"  
**ALL57982** .... LH, 8-1/2"  
**ALL57984** .... LH, 9"  
**ALL57985** .... LH, 9-1/2"  
**ALL57986** .... LH, 10"

## IMCA Legal Upper Control Arms

IMCA legal upper control arms fit stock 6-7/8" mounts, found on mid-size GM Metric frames. Use with bolt-in style ball joint, Allstar 56220 or Moog K5208. Steel control arms are available with steel or aluminum cross shaft and come complete with "IMCA certified" sticker.



**ALL57830** .... RH, 8" with Steel Cross Shaft  
**ALL57831**..... LH, 8-1/2" with Steel Cross Shaft  
**ALL57832** .... RH, 8" with Aluminum Cross Shaft  
**ALL57833** .... LH, 8-1/2" with Aluminum Cross Shaft



Mike McKinney



## Upper Control Arm Mounting Bracket

**ALL60190**

Bracket is same cut from 1/2" thick steel, with 6" bolt spacing. Welds to frame and accepts upper A-arm.



## Upper Control Arm Shims

Individual steel shims fit between the upper control arm and chassis mount to adjust caster and camber. Shims have 9/16" wide slots and easy-to-grasp tabs for installation and removal. Package of 10.



ALL60201

**ALL60200** .... 1/16" (0.062")

**ALL60201** .... 1/8" (0.125")

## 1-Piece Upper Control Arm Shims

Dual mount shims fit between the upper control arm and chassis mount to adjust camber. One-piece design works with most mounts/control arms with 6" bolt spacing using 1/2" mounting hardware. Sold each.

**ALL60203** .... 1/8" (0.125")

**ALL60204** .... 3/16" (0.185")

**ALL60205** .... 1/4" (0.250")

**ALL60206** .... 3/8" (0.375")

**ALL60207** .... 1/2" (0.500")

**ALL60208** .... 3/4" (0.750")

**ALL60209** .... 1" (1.00")

**ALL60210**..... 7-Piece Kit, Includes ALL60203-60209 (1 of each)



ALL60205

## Slotted Upper Control Arm Bracket Kit **ALL60077**

Kits contain (2) slotted brackets, (2) centered bushings, (2) reducer spacers for 5/8" rod end and a 1/2" bolt and nyloc nut. Offset aluminum bushings (sold separately) allow for plenty of adjustment options.



## Insert Bushings

**ALL60080** ..... Centered Bushings (Pair)

**ALL60081** ..... 1/8" Offset Bushings (Pair)

**ALL60082** ..... 1/4" Offset Bushings (Pair)

**ALL60083** ..... 3/8" Offset Bushings (Pair)

**ALL60084** ..... 1/2" Offset Bushings (Pair)

## Individual Components

**ALL60078** ..... Slotted Upper Brackets (Pair)

**ALL18612** ..... Reducer Spacers for 5/8" Rod End

**ALL16490**..... Hex Head Bolts 1/2"-20 x 3", Grade 5, 5-Pack

**ALL16074-10**..... Thin Nyloc Insert Nuts 1/2"-20, 10-Pack

## Upper Control Arm Brackets

**ALL60025**

Stamped 3/16" mild steel brackets weld to chassis as a mounting point for upper control arm. Brackets have two 5/8" holes, spaced 7/8" apart for adjustment. May be trimmed to desired height. Package of 2.



## Lightweight, Low-Friction Lower Control Arm Bushings

Designed specifically for racing these bushings feature a lightweight housing with 2 steel inner bushings, machined so they can be tightened without binding. O-rings on each side help keep the bushings in place while installing and also help keep dirt out. Bushings should be disassembled and reassembled with a good quality wheel bearing grease prior to installation.



ALL56228

**Chevelle 1964 - 1974**

**ALL56227** .... Front

**ALL56229** .... Rear

**Metric 1978 - 1988**

**ALL56228** .... Front

**ALL56229** .... Rear



ALL56229

## Steel Control Arm Bushings

Allstar Steel Control Arm Bushings replace stock rubber bushings and eliminate deflection, a common problem with original equipment bushings.



ALL56230

## Lower Control Arm Bushing Applications

Part No.	Application	Bushing Position	O.D.	UHL	Hole Size
<b>Chevelle, Monte Carlo, GM Intermediates</b>					
<b>ALL56230</b>	1964-66	Front (2nd Design)	1.345"	2.100"	.500"
	1967-74	Front	1.345"	2.100"	.500"
<b>ALL56232</b>	1964-66	Front (1st Design)	1.645"	2.100"	.500"
	1975-77	Front	1.645"	2.100"	.500"
	1964-72	Rear	1.645"	2.100"	.500"
	1978-88	Rear	1.645"	2.100"	.500"
<b>ALL56233</b>	-	-	1.645"	2.100"	.562"
<b>ALL56234</b>	1973-77	Rear	1.900"	2.100"	.500"
<b>ALL56235</b>	-	-	1.900"	2.100"	.562"
<b>ALL56236</b>	1978-88	Front	1.440"	2.750"	.500"
<b>Camaro, Firebird</b>					
<b>ALL56230</b>	1967-74	Front	1.345"	2.100"	.500"
<b>ALL56232</b>	1975-81	Front	1.645"	2.100"	.500"
	1967-72	Rear	1.645"	2.100"	.500"
<b>ALL56234</b>	1973-88	Rear	1.900"	2.100"	.500"
<b>ALL56236</b>	1982-92	Front	1.440"	2.750"	.500"

## Upper Control Arm Bushing Applications

Part No.	Application	Bushing Position	O.D.	UHL	Hole Size
<b>Chevelle, Monte Carlo, GM Intermediates</b>					
<b>ALL56238</b>	1967-72	All	1.275"	1.250"	.675"
<b>ALL56240</b>	1978-88	All	1.530"	1.500"	.695"
<b>ALL56242</b>	1973-77	Front	1.394"	1.500"	.690"
<b>ALL56244</b>	1973-77	Rear	1.311"	1.425"	.690"
<b>Camaro, Firebird</b>					
<b>ALL56238</b>	1967-69	All	1.275"	1.250"	.675"
<b>ALL56242</b>	1974-79	Front	1.394"	1.500"	.690"
<b>ALL56244</b>	1974-79	Rear	1.311"	1.425"	.690"





## Roller Bearing Lower Control Arm Bushings

Free up stock front suspensions and help prevent binding commonly found with stock rubber and steel insert bushings. Steel bodied bushings are complete with needle roller bearings and hardened inserts that are ready to install and do not require special mounting hardware. All bushings have 1/2" I.D. mounting holes.



ALL56223



Part No.	Application	Bushing Position	O.D.	UHL	Hole Size
<b>Chevelle, Monte Carlo, GM Intermediates</b>					
<b>ALL56221</b>	1964-66	Front (2nd Design)	1.345"	2.100"	.500"
	1967-74	Front	1.345"	2.100"	.500"
<b>ALL56222</b>	1964-66	Front (1st Design)	1.645"	2.100"	.500"
	1975-77	Front	1.645"	2.100"	.500"
	1964-72	Rear	1.645"	2.100"	.500"
	1978-88	Rear	1.645"	2.100"	.500"
<b>ALL56223</b>	1973-77	Rear	1.900"	2.100"	.500"
<b>ALL56224</b>	1978-88	Front	1.440"	2.750"	.500"
<b>Camaro, Firebird</b>					
<b>ALL56221</b>	1967-74	Front	1.345"	2.100"	.500"
<b>ALL56222</b>	1975-81	Front	1.645"	2.100"	.500"
	1967-72	Rear	1.645"	2.100"	.500"
<b>ALL56223</b>	1973-88	Rear	1.900"	2.100"	.500"
<b>ALL56224</b>	1982-92	Front	1.440"	2.750"	.500"

### Replacement Component

**ALL99250** .... Thrust Bearing Set



### Related Component

**ALL56226** .... Nylon Bushing Kit

(Optional bushings to replace roller bearings when conforming to some sanctioning body rules.)



## 1978-88 Metric Front Lower Control Arms

Reproduction of the originals, these arms are a direct replacement for 1978-88 metric chassis and accept stock ball joints.



ALL57805

**ALL57804** .... RH

**ALL57805** .... LH

## 1964-72 Chevelle Lower Control Arms

Reproduction 1964-72 A-body lower control arms are coated and have the same fit and appearance as the factory arms. Both versions are made to meet the same tolerance as the original. The deluxe arms have a more precise spring pocket for more consistent suspension geometry. They also accept the larger wire diameter of heavier rated racing springs.



ALL57801  
ALL57803

**ALL57800** .... RH

**ALL57801** .... LH

**ALL57802** .... RH Deluxe

**ALL57803** .... LH Deluxe

## Precision Lower Control Arm Kits

**NEW**

Precision lower control arms have the same appearance and function as the original factory arms but feature a precision stamping process over traditional reproduction arms providing a true bushing centerline axis.



These arms include our popular lightweight steel bushings pre-installed with an alignment rod and include a spacer kit to accurately position each arm to the specific chassis. We recommend tack welding control arm bushings into the arm once the arm has been fitted to the chassis.

### 1978-88 GM Metric G-Body

**ALL57806**

**ALL57807**

### 1964-72 Chevelle

**ALL57808**

**ALL57809**

## Ball Joint Adapter Sleeve



**ALL56256**

Adapter sleeve is ideal for modifying stock style Chevelle lower control arms to accept a screw-in style ball joint. Adapter sleeve has an O.D. of 2.010" to take the place of a press-in style ball joint (ALL56210/K5103) allowing for installation of a screw in style ALL56214 with a 1-1/2" taper/ft. pin or ALL56049 with a 2" taper/ft. pin ball joint. Note: Modifications to control arms may be necessary for proper fit of sleeve. Sleeve must be welded to the control arm after installation.

### TECH TIP

To minimize distortion of sleeve during press-in, it is recommended that the ball joint be threaded into sleeve during press-in procedure.

## Lower Control Arm Limit Clamps

Clamps fasten around tubular lower control arms providing a lower mounting point for a suspension limit chain. Aluminum Clamps are double shear style and accept 5/16" hardware.



**ALL68340** .... 1"

**ALL68341** .... 1-1/8"

**ALL68342** .... 1-1/4"



Deece Schwartz

## Tubular Lower Control Arms

Tubular Lower Control Arms are made with 1-1/4" D.O.M. tubing. Black powder coated arms feature high quality rod ends and separate shock bracket which will require welding or bolting onto arm. Rod end spacer kit is required to adapt rod end to fit in the stock frame mount (sold separately). These lower control arms are intended for racing and will not accept stock style lower ball joints.

Note: Ball joints should be tack welded into lower control arm after assembly.

### Flat Bottom

Flat bottom design works with 5" or 5-1/2" conventional springs which must be mounted with the closed end seated in the control arm and the open end in the upper spring cup or a spring ramp (sold separately) may be welded onto the lower plate to place the open end down.

### Press-In Ball Joint Control Arms (Use ALL56212/K6117)

- ALL56320** .... RH, '64-72 Chevelle
- ALL56321** .... LH, '64-72 Chevelle
- ALL56323** .... RH, '68-74 Nova
- ALL56324** .... LH, '68-74 Nova



### Helix Bottom

Helix bottom correctly positions 5" or 5-1/2" conventional spring for proper performance.

### Press-In Ball Joint Control Arms (Use ALL56212/K6117)

- ALL57810** .....RH, '64-72 Chevelle
- ALL57811** .....LH, '64-72 Chevelle



### Screw-In Ball Joint Control Arms (Use ALL56216/K727)

- ALL57812** .....RH, '64-72 Chevelle
- ALL57814** .....RH, '64-72 Chevelle 1" Longer
- ALL57813** .....LH, '64-72 Chevelle

### Related Components:

- ALL56322** .... '68-72 Chevelle Spacer Kit, 4-Pieces
- ALL56325** .... '68-74 Nova Spacer Kit, 5-Pieces
- ALL56326** .... Spring Ramp (Helix)

## Lower Control Arm Kits

Universal kits are 2" longer than standard arms and must be cut to length before welding slug into place. Ball joint sold separately.



- ALL56186** .... LH Kit, Use with Screw-In Ball Joint (ALL56216)
- ALL56187** ..... RH Kit, Use with Screw-In Ball Joint (ALL56216)

## Double Adjusters

Steel double adjusters increase adjustment capability of control arms, trailing arms, Panhard bars, tie rod ends and other items using threaded tube. Adjuster includes one LH and one RH jam nut.



- ALL56196** .... 5/8"-18 RH Male/LH Male, 4-1/4" Long
- ALL56197** ..... 3/4"-16 RH Male/LH Male, 5" Long
- ALL56198** .... 5/8"-18 RH Male/LH Female, 4" Long
- ALL56199** .... 5/8"-18 LH Male/RH Female, 4" Long

## Coarse Thread Weight Jack Bolts

Weight jack bolts have 1"-8 threads with 1/2" square drive. Use with ALL56113-56115, style spring cups.

- ALL56106** .... 8" Steel
- ALL56107** ..... 11" Steel



## Weight Jack Bolts with Internal Thread

Bolts have a 7/16"-20 internal thread on one end for use with bolt-on and swiveler spring cups. Coarse thread bolts have 1"-8 outer threads while fine thread bolts are 1-1/8"-12.



### Coarse Thread 1"-8 with 3/4" Hex

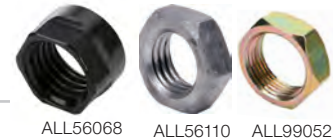
- ALL56094** .... 4" Steel
- ALL56095** .... 6" Steel
- ALL56066** .... 8" Steel
- ALL56067** .... 11" Steel

### Fine Thread 1-1/8"-12 with 1/2" Square Drive

- ALL56090** .... 6" Aluminum
- ALL56091** .... 8" Aluminum
- ALL56092** .... 6" Steel
- ALL56093** .... 8" Steel

## Jam Nuts for Jack Bolts

Steel jam nuts for jack bolts



- ALL56068** .... 1"-8 (Coarse) 1-1/8" Wrench
- ALL56110** ..... 1"-8 (Coarse) 1-1/2" Wrench
- ALL99052** .... 1-1/8"-12 (Fine) 1-3/8" Wrench

## Weight Jack Bolt Collars

Steel collar typically welds on to frame or chassis for installation of a threaded jack bolt. Collar includes grease fitting.

- ALL56099** .... 1"-8
- ALL56098** .... 1-1/8"-12



## Weight Jack Bolt Sleeves

Weld-in mild steel sleeve provides a mounting point for jack bolts or adjustable shock mounts. Sleeves are 2" long and have a 1-3/8" O.D. for welding onto chassis tubing.

- ALL56109** .... 1"-8, Coarse Thread
- ALL56073** .... 1-1/8"-12, Fine Thread



## Weight Jack Plate **ALL56112**

Heavy-duty steel plate has a threaded boss welded to the center to accept jack bolts with 1"-8 coarse threads. O.D. is 5".



## Coarse Thread Nut with Sleeve

### **ALL56111**

Steel coarse thread nut with sleeve has 1"-8 coarse threads.



## Coil-Over Load Bolt Assembly

### ALL56074

Threaded aluminum bolt is 6" long with 1-1/8"-12 fine threads and is commonly used on big bar, soft spring cars. Load bolt offers the ability to easily change corner weights, change the center-to-center distance of the shock, adjust bump stop distances without adding shims and adjust ride height without running out of shock travel. Commonly used with ALL56098 threaded sleeve.



### Replacement Component

ALL56075 .... Shock End

## Upper Spring Cups

Steel cups sit in the top of a coil spring and when used with a weight jack bolt it allows adjustment of the spring load in a chassis. Cup will accept a 1" or 1-1/8" weight jack bolt.

ALL56114 ..... 5" O.D. Spring

ALL56115 ..... 5-1/2" O.D. Spring



ALL56114

## Lightweight

### Upper Spring Cup ALL56113

Lightweight steel cup works with most 5" and 5-1/2" O.D. springs and either 1" or 1-1/8" jack bolts.



## Bolt-On Upper Spring Cup

### ALL56097

Steel cup bolts to internal thread jack bolt and keeps 5" or 5-1/2" spring centered to the jack bolt.



## Bolt-On Spring Cup ALL56117

Aluminum cup for 5" spring features a 1/2" mounting hole for use with internal threaded jack bolts, used as a rear lower cup or modified to fit shock shafts.



## Extended Length

### Upper Spring Cup ALL56125

Commonly used in rear suspensions, cup connects to jack bolt with a 7/16"-20 bolt to help maintain spring location. Extension sits 5" into the spring.



## Extended Length "Swiveler" Spring Cup ALL56079

Extended length cup helps keep spring centered. Also keeps spring from falling out on some modern day long drop suspension packages.



## "Swiveler" Spring Cups

Swiveler cup is used in place of a standard upper spring plate and weight jack bolt on vehicles using conventional style coil springs. Mono-ball stud mount allows cup to pivot as needed to prevent binding during suspension travel and requires a weight jack bolt with a 7/16"-20 internal threaded end for proper installation.

## Welded Style ALL56080

The sleeve and top are welded together on this unit to fit most applications using a 5" conventional spring.



## Pro-Series

Components bolt together to select the desired spring top plate and sleeve separately to build custom size cups.

ALL56077 .... Spring Top Plate for 5" Spring

ALL56078 .... Spring Top Plate for 5-1/2" Spring

ALL56086 .... 3-1/4" Spring Sleeve

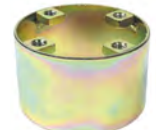
ALL56087 .... 3-1/2" Spring Sleeve

ALL56088 .... 3-3/4" Spring Sleeve

ALL56089 .... 4" Spring Sleeve



ALL56077



ALL56086

## Coil Spring Spacer ALL56116

Spacer for 5" racing spring welds into spring pocket enabling chassis adjustments to Street Stock and other race cars that are not allowed to use weight jack bolts or threaded adjusters. 3" tall spacer may be cut to desired height before installation. Use coil shim spacers ALL56120 and ALL56121 to make chassis adjustments.



## Coil Spring Shims

Used with ALL56116, or whenever weight jack bolts are not allowed, to raise car height for set-up purposes. 5" diameter, 3-5/8" I.D.

ALL56120 ..... 3/16" Shim

ALL56121 ..... 1/8" Shim



## Adjustable Coil Spring Spacers

Adjustable spacers for 5" racing springs weld into spring pockets enabling chassis adjustments to street stock and other race cars that are not allowed to use weight jack bolts.

ALL56118 ..... All Steel Adjuster

ALL56119 ..... Steel Sleeve with Alum. Adj. Nut



ALL56118



ALL56119



## Sway Bar Bolts

Bolts have 7/8"-9 threads and are available in a fixed or swivel end design. Swivel end bolts have a 1/2" square drive end for quick and easy adjustments.



Part No.	Description	Eye I.D.	Eye O.D.	Eye Width	Eye Center to End of Threads
ALL56070	Steel Swivel	1-5/8"	2"	1-1/8"	11-1/2"
ALL56071	Steel Swivel	2"	2-3/4"	1-1/8"	12"
ALL56100	Steel Non-Swivel	1-5/8"	2"	1-1/8"	10-1/2"

### Related Components

ALL18266 ..... Lock Nut for ALL56100-56102  
 ALL56072 ..... Weld Nut for ALL56070-56071



ALL56072

## Adjustable Sway Bar Bolt Kit

### ALL56103

Kit includes a 3-5/8" long sleeve that welds into frame rail with a locking collar to prevent movement. Adjustment bolt has 4" of travel and adjusts with a 1/2" square drive ratchet. Inside eye diameter 1-1/2".



### Replacement Component

ALL99020 .... Adjuster Bolt with Eye End

## Adjustable Sway Bar Arms



ALL56382

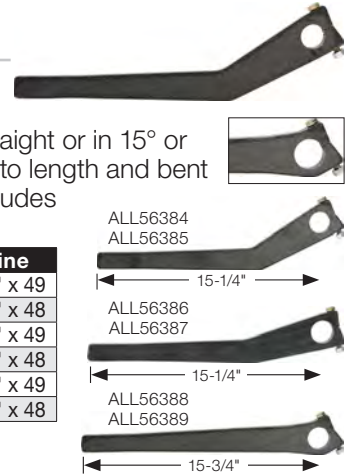
ALL56380

Kit includes a CNC-machined aluminum adjuster and a 17-1/2" long steel arm. Adjuster is available in 30° or zero drop with 1-1/4" x 49 -spline or 1-1/2" x 48-spline. On cars with limited ground clearance, the zero drop kit positions the arm at the center line of the adjuster for additional ground clearance. Adjustment bolt has detents to lock at each half turn.

Description	Spline	Complete Assembly	Adjuster Assembly	Side Plate Only
RH 30° Drop	1-1/4" x 49	ALL56380	ALL99470	ALL99471
RH 30° Drop	1-1/2" x 48	ALL56381	ALL99472	ALL99473
RH Zero Drop	1-1/4" x 49	ALL56382	ALL99474	ALL99475
RH Zero Drop	1-1/2" x 48	ALL56383	ALL99476	ALL99477

## Sway Bar Arms

Splined sway bar arms are made from 3/4" thick mild steel. Arms are available straight or in 15° or 30° drop. Arms can be cut to length and bent to fit any width chassis. Includes pinch bolt.



Part No.	Description	Spline
ALL56384	30° Drop	1-1/4" x 49
ALL56385	30° Drop	1-1/2" x 48
ALL56386	15° Drop	1-1/4" x 49
ALL56387	15° Drop	1-1/2" x 48
ALL56388	Straight	1-1/4" x 49
ALL56389	Straight	1-1/2" x 48

## Shock Travel Indicator Kits

Check compression and rebound travel of coil-over shocks at a glance. Clamp aluminum bracket portion of the kit directly to the coil-over sleeve or shock body and attach the other end to the existing shock eye bolt or under spring cup. May be used with most coil-over and non-coil-over shocks. Clamp is included.



ALL60094

ALL60095

ALL60094 .... Kit for Use with 2-1/2" Spring

ALL60095 .... Kit for Use with 3" Barrel or 5" Springs

## Ground Clearance Indicator

### ALL10725

Determine how close the frame is to the ground on the race track. This unique kit features an aluminum bracket that rivets to the frame with an adjustable 4" plastic wear rod.



### Replacement Component

ALL10726 .... Wear Rods, 4-Pack



Steve Needles

## Quick Adjust External Bump Stop Kit

External bump stop allows adjustment of suspension travel separate from the coil-over unit. The detented adjuster nut can be turned on the rod end for quick engagement adjustment. Each half turn equals 1/16" eliminating the need for packer shims. Bump stop bolts to the outside of lower control arm and to an upper chassis location (may need to drill a hole or use a clamp on bracket). Fine tune vehicle set-up by adjusting the upper bushing plate. Includes built-in travel indicator and two yellow 75 durometer bushings. Will also accept bump springs with 5/8" I.D. retainers (not included)

**ALL56361** .... Bump Stop w/ Bushings  
**ALL56360** .... Bump Stop w/o Bushings



## Shock Eye Socket **ALL64255**

The ideal tool for shock rebuilders or anyone that disassembles shocks on a regular basis! Unique socket safely removes and installs the shock rod end without risk of damage to the spherical ball. Steel socket contacts the outer housing of 1/2" rod ends up to .640" wide and has a 1/2" drive for ratchet or impact use.



## Shock Inflation Tool **ALL64260**

Shock inflation tool threads onto shock Schrader valves. Fill valve and 0-300 PSI gauge head independently rotates a full 360°, for easy filling and reading. Complete with built-in bleeder and includes a protective storage case.



## Ride Height Set-Up Stick **ALL10658**

Stick replaces the coil-over shock and spring assembly during maintenance. Stick has many uses and may be adjusted to check settings at normal ride height, in race attitude or on the bump stops to evaluate suspension travel. Adjusts from 15" to 24", measured at the center of rod ends.



## Shock Workstation

**ALL64264**

The all-in-one shock workstation holds most shock bodies in the upright position for ease of shaft removal or assembly and holds shock shafts vertical or horizontal for easier repairs and re-valving. Aluminum workstation can be placed in a vise, bench mounted using optional mounting bracket or custom mounted using 1/4" fasteners.



ALL64264

## Shock Racks

Shock rack holds four shocks with 2-1/2" springs and easily mounts to trailer, shop wall or pit cart. Rack is designed to hold shocks in place by pushing shock rod end or eye over the outer O-ring or alternatively, the outer O-ring may be removed to expose a predrilled hole for a hairpin clip such as ALL18442, sold separately.



ALL12211

**ALL12212** ..... Standard Rack  
**ALL12211** ..... Adjustable Base Rack

## Shock Workstation Base **ALL64267**

Steel base is helpful when mounting Allstar shock workstation (ALL64264) in a trailer or to a shop workbench. Mounting hardware included.



## Shock Canister Mounts

Shock canister mounts all common shock canisters. Aluminum construction mount is rubber padded to protect shock canister and increase holding strength. Adjustable quick-release nylon strap will secure any shock canister from 1-1/2" to 3" in diameter.

**ALL64270** .... 1-1/4" Tubing  
**ALL64271** ..... 1-1/2" Tubing  
**ALL64272** .... 1-3/4" Tubing  
**ALL64273** .... Flat Panel

**Replacement Components**  
**ALL99295** .... Release Pin  
**ALL99296** .... Retainer Strap



ALL64273

## Extended Length Shock Rack Pin

**ALL12215**

Extended length pin replaces the pin used on our standard and adjustable shock racks allowing a shock or eliminator with a 5" spring to be mounted to the rack. Pins are also ideal for creating custom mounting for use on toolboxes or pit carts. The outer O-ring may be removed to expose a predrilled hole for a hairpin clip such as ALL18442, sold separately.





## Bump Stop Kits

Kit makes it easy to start using bump stops. Includes a selection of 20 bump stop pucks ranging from 50 to 75 durometer, 8 backing washers, and 16 packer shims in a simple plastic carrying case.



**ALL64360** ... 14mm Kit  
**ALL64320** ... 16mm Kit

## Bump Stop Pucks - 14mm

Pucks are replacement components found in ALL64360 bump stop kit, in addition to other durometer ratings for even more adjustability. 2" O.D. pucks have a 1/2" I.D. hole suitable for 14mm shocks as well as many other uses, including suspension limiters.



ALL64374

Bump Stop Pucks	1/2" Tall	3/4" Tall	1" Tall
40dr Brown	<b>ALL64367</b>	<b>ALL64368</b>	<b>ALL64369</b>
50dr Green	<b>ALL64370</b>	<b>ALL64371</b>	<b>ALL64372</b>
55dr Orange	<b>ALL64373</b>	<b>ALL64374</b>	<b>ALL64375</b>
60dr Purple	<b>ALL64376</b>	<b>ALL64377</b>	<b>ALL64378</b>
65dr Black	<b>ALL64379</b>	<b>ALL64380</b>	<b>ALL64381</b>
75dr Yellow	<b>ALL64384</b>	<b>ALL64385</b>	<b>ALL64386</b>

## Bump Stop Pucks - 16mm

Pucks are replacement components found in ALL64320 Bump Stop Kit, in addition to other durometer ratings for even more adjustability. 2.10" O.D. pucks have a 5/8" I.D. hole suitable for 16mm shocks as well as many other uses, including suspension limiters.



ALL64334

Bump Stop Pucks	1/2" Tall	3/4" Tall	1" Tall
40dr Brown	<b>ALL64327</b>	<b>ALL64328</b>	<b>ALL64329</b>
50dr Green	<b>ALL64330</b>	<b>ALL64331</b>	<b>ALL64332</b>
55dr Orange	<b>ALL64333</b>	<b>ALL64334</b>	<b>ALL64335</b>
60dr Purple	<b>ALL64336</b>	<b>ALL64337</b>	<b>ALL64338</b>
65dr Black	<b>ALL64339</b>	<b>ALL64340</b>	<b>ALL64341</b>
75dr Yellow	<b>ALL64344</b>	<b>ALL64345</b>	<b>ALL64346</b>

## Aluminum Backing Washers

Aluminum washers are designed for use with bump stop pucks, as a backer washer or many other uses. Washer has a 2-1/4" O.D. and is 3/16" thick.



**ALL64366** .... 1/2" I.D. for 14mm Shock Shaft  
**ALL64326** .... 5/8" I.D. for 16mm Shock Shaft

## Bump Stop Shims

Place within the bump stop stack to limit suspension travel. 2" O.D. shims work with most shocks.



ALL64364



ALL64365

Thickness	14mm	16mm
1/32" Shim	—	<b>ALL64323</b>
1/16" Shim	<b>ALL64364</b>	<b>ALL64324</b>
1/8"	<b>ALL64365</b>	<b>ALL64325</b>

## Shock Bump Covers

These neoprene covers are perfect for protecting shock shafts and covering bump set ups. Fit 2" O.D. shocks. Not for use with coil-over springs.



**ALL64215**..... 8" Tall Cover  
**ALL64216**..... 12" Tall Cover  
**ALL64218**..... 16" Tall Cover

## Bump Stop Components for Bilstein Shocks

Specifically designed for use with Bilstein shocks when using RSW or Christmas tree style bump stops. Lower support and cup rest directly on the shock rod end.



**ALL64276** ... Rod Guide Protector Puts the Bump Stop Forces into the Shock Body, Not the Rod Guide  
**ALL64277** ... Splitter Washer Used to Separate Stops on Stacked Stop Setups  
**ALL64274** ... Bump Stop Support 2-1/4" OD  
**ALL64275** ... Bump Stop Cup 2.100" ID

## Threaded Bump Washers

Washer threads onto the end of the shock shaft with the shock end to create a solid foundation for bump stop bushings.



**ALL64291** .... Bilstein M12-1.0 Thread  
**ALL64292** .... Fox 7/16"-20 Thread  
**ALL64293** .... Penske 1/2"-20 Thread  
**ALL64290** .... Spanner Wrench for Threaded Bump Washers

## Bump Washer Dividers

Dividers fit over the shock shaft between bump stop bushings.



**ALL64296** .... 1/2" I.D. for 14mm Shock Shaft  
**ALL64297** .... 5/8" I.D. for 16mm Shock Shaft



Jason Feger

SUSPENSION





## Roller Skate Wheel Bump Stops

Poly bump stops are 1" tall with a 5/8" diameter hole.



- ALL64510**..... 50 Durometer
- ALL64511**..... 55 Durometer
- ALL64512**..... 60 Durometer
- ALL64514**..... 70 Durometer

## Adjustable Poly Bump Stop Kit

### ALL64505

Polyurethane bump stop is weather resistant and easily adjustable by adding packers to the inner ring. Five 1/16" thick packer shims included in the kit.



## Shock Bump Rubbers

Conical bump rubbers fit on most shock shafts up to 16mm to limit shock travel. Bump rubbers are 2-3/8" tall and have a 2" O.D. base. A letter designation is molded in the bottom to identify compound.

- ALL64500** .... Soft (40 grams)
- ALL64501** .... Medium (50 grams)
- ALL64502** .... Hard (55 grams)

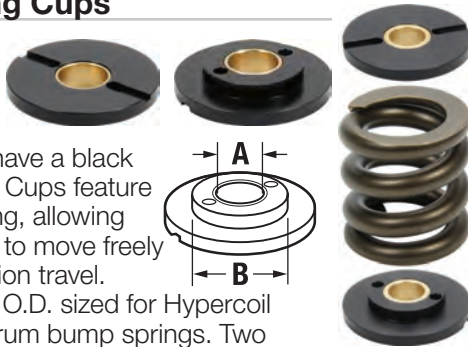


## Bump Spring Cups

Lightweight bump spring cups are made from 6061-T6

aluminum and have a black anodized finish. Cups feature a bronze bushing, allowing the shock shaft to move freely during suspension travel.

Cups have a 2" O.D. sized for Hypercoil and most Landrum bump springs. Two are required and should closely match bump spring I.D. size to appropriate bump spring cup step O.D. size from chart. Sold each.



Shaft Size "A"	Cup Step O.D. "B"		
	1.160"	1.200"	1.280"
14mm	<b>ALL64348</b>	<b>ALL64349</b>	<b>ALL64350</b>
1/2"	<b>ALL64352</b>	<b>ALL64353</b>	<b>ALL64354</b>
16mm, 5/8"	<b>ALL64356</b>	<b>ALL64357</b>	<b>ALL64358</b>

## Shock Shims

Uniquely designed shock shims are placed directly onto the shock shaft to simplify the tuning of the chassis without disassembling the shock or even removing the shock from the chassis. Kits include a variety of shim designs and sizes for convenient tuning and set-up.



ALL64404

Size	Starter Kit	Standard Kit	Deluxe Kit
14mm	<b>ALL64400</b>	<b>ALL64402</b>	<b>ALL64404</b>
16mm	<b>ALL64440</b>	<b>ALL64442</b>	<b>ALL64444</b>

### Starter Kit Contents:

U-Shaped Shims 1/16" (4 pcs), 1/8" (4 pcs) and 3/8" (2 pcs); Semi-Solid Shims 1/16" (4 pcs) and 1/8" (4 pcs).

### Standard Kit Contents:

U-Shaped Shims 1/16" (12 pcs), 1/8" (12 pcs) and 3/8" (6 pcs); Semi-Solid Shims 1/16" (12 pcs) and 1/8" (12 pcs); 2-Piece Collar Shims 1/2" (2 pcs), 3/4" (2 pcs), and 1" (2 pcs); Storage Case.

### Deluxe Kit Contents:

U-Shaped Shims 1/16" (12 pcs), 1/8" (24 pcs), and 3/8" (10 pcs); Semi-Solid Shims 1/16" (12 pcs) and 1/8" (24 pcs); 2-Piece Collar Shims 1/2" (6 pcs), 3/4" (6 pcs), and 1" (6 pcs); Storage Case.

## Shock Shim Components

**U-Shaped Shims** - Designed for quick removal and installation into tight stacks and locations where twisting the shim into the stack is not an option or when the car is on the ground. Commonly used for fine tuning the suspension.



ALL64412

**Semi-Solid Shims** - Designed for quick removal, providing a secure installation that will not fall out yet requires 3/4" of space to install or remove. Typically installed when the vehicle is off the ground. Commonly used for fine tuning the suspension.



ALL64416

**2-Piece Collar Shims** - Designed to attach around the shaft of the shock and secure in place with a zip tie. Commonly used during initial set-up or to take up a large amount of travel.



ALL64420

Description	2-Pack	10-Pack	25-Pack
<b>14mm (.550")</b>			
U-Shaped Shim 1/16"	-	<b>ALL64410</b>	<b>ALL64410-25</b>
U-Shaped Shim 1/8"	-	<b>ALL64412</b>	<b>ALL64412-25</b>
U-Shaped Shim 3/8"	-	<b>ALL64414</b>	<b>ALL64414-25</b>
Semi-Solid Shim 1/16"	-	<b>ALL64416</b>	<b>ALL64416-25</b>
Semi-Solid Shim 1/8"	-	<b>ALL64418</b>	<b>ALL64418-25</b>
2-Piece Collar Shim Kit 1/2"	<b>ALL64420</b>	<b>ALL64420-10</b>	-
2-Piece Collar Shim Kit 3/4"	<b>ALL64422</b>	<b>ALL64422-10</b>	-
2-Piece Collar Shim Kit 1"	<b>ALL64424</b>	<b>ALL64424-10</b>	-
<b>16mm (.630")</b>			
U-Shaped Shim 1/16"	-	<b>ALL64450</b>	<b>ALL64450-25</b>
U-Shaped Shim 1/8"	-	<b>ALL64452</b>	<b>ALL64452-25</b>
U-Shaped Shim 3/8"	-	<b>ALL64454</b>	<b>ALL64454-25</b>
Semi-Solid Shim 1/16"	-	<b>ALL64456</b>	<b>ALL64456-25</b>
Semi-Solid Shim 1/8"	-	<b>ALL64458</b>	<b>ALL64458-25</b>
2-Piece Collar Shim Kit 1/2"	<b>ALL64460</b>	<b>ALL64460-10</b>	-
2-Piece Collar Shim Kit 3/4"	<b>ALL64462</b>	<b>ALL64462-10</b>	-
2-Piece Collar Shim Kit 1"	<b>ALL64464</b>	<b>ALL64464-10</b>	-

SUSPENSION



ALL64141

## 2.5" Coil-Over Kits

Kits include everything to assemble one complete shock. Slotted tops allow quick and easy spring changes. Kits are for 2-1/2" coil-over springs and are designed for use with 2" steel bodied shocks unless speci ed.

Shock	Kit Number	Replacement Top	Replacement 5" Sleeve	Replacement 7" Sleeve	Replacement Adjuster Nut
<b>AFCO</b>					
Kit with 7" Sleeve	ALL64141	ALL64170	ALL64160	ALL64161	ALL64180
<b>Bilstein</b>					
Kit with 7" Sleeve	ALL64143	ALL64171	ALL64162	ALL64163	ALL64180
<b>Fox</b>					
Kit with 7" Sleeve	ALL64130	ALL64177	-	ALL64164	ALL64180
<b>Integra</b>					
(Avenger) Kit with 7" Sleeve	ALL64158	-	-	-	ALL64180
Kit for Aluminum Threaded Body	ALL64157	-	-	-	-
<b>JRI</b>					
Kit with 7" Sleeve	ALL64136	ALL64178	-	ALL64169	ALL64180
<b>Koni</b>					
Kit with 5" Sleeve	ALL64146	ALL64173	ALL64162	ALL64163	ALL64180
Kit with 7" Sleeve	ALL64147	ALL64173	ALL64162	ALL64163	ALL64180
<b>Penske</b>					
Kit with 7" Sleeve	ALL64149	ALL64174	ALL64162	ALL64163	ALL64180
<b>Pro</b>					
Kit with 7" Sleeve	ALL64151	ALL64175	-	ALL64165	ALL64180
<b>QA1</b>					
(50 Series) Kit with 7" Sleeve	ALL64145	ALL64172	-	ALL64165	ALL64180
Kit for Aluminum Smooth Body w/7" Sleeve	ALL64154	ALL64172	-	ALL64167	ALL64180

### Replacement /Related Components

- ALL64182..... 2-7/8" C/O Diaper Pin
- ALL64183..... Snap Ring Flat (Koni)
- ALL64184..... Snap Ring Round
- ALL64186..... Snap Ring (Fox)
- ALL11155 ..... C/O Spanner Wrench



ALL64182



ALL64183



ALL64184



ALL64186

SUSPENSION

## 5" Coil-Over Adapter

### ALL64185

Aluminum adapter converts existing coil-over kit from a 2-1/2" spring to a 5" spring. Adapter inner hole I.D. is 2-1/2" to work with most coil-over sleeves. Sold each.



## Shock Extensions

Steel extensions fasten directly to shock shaft for added suspension travel. Sold each.

### M12-1.0 Thread (Bilstein)

- ALL60096 ... 1" Extension
- ALL60097 ... 2" Extension

### 7/16"-20 Thread (Fox)

- ALL60098 ... 1" Extension
- ALL60099 ... 2" Extension



## Spring Spacers



Spring Spacers can be used with 2-1/2" coil-over springs or with coil-over kits and 5" adapter when extra spacing is needed. Spacers have a 3.5" O.D.

- ALL64195..... 1" Spacer
- ALL64196..... 2" Spacer
- ALL64197..... 3" Spacer

## Thrust Bearing Kits

Bearing kits are placed between the coil spring and the adjuster nut to reduce friction when making adjustments. Kits are recommended for preloaded spring assemblies or when springs require adjustment while they are under pressure. Kits include one bearing and two races.

- ALL64210..... 2.5" Kit (2.5" I.D. x 3.25" O.D.)
- ALL64212..... 3" Kit (3.025" I.D. x 3.730" O.D.)
- ALL64214..... 5" Kit (4.150" I.D. x 5.045" O.D.)



## Spring Pre-Loader

Pre-loader allows use of a softer spring rate that is "pre-loaded" at ride height. The pre-loaded spring will have less rate increase as the suspension travels. For example, a 150 lb./in. spring can be pre-loaded to 400 lbs. at ride height, but still only increases at a rate of 150 lb./in. as suspension travels. The entire unit may also be exchanged with another unit with a different rate spring pre-installed to allow spring rate changes without affecting ride height. Commonly used on the rear coil-overs, pre-loader requires 3" I.D. spring, includes a thrust bearing set and fits most shocks. Note: Unit is typically installed with slotted inner half towards the shock body. Always check components for possible interference.



- ALL64230** .... Pre-Loader for 10" Tall Spring
- ALL64232** .... Pre-Loader for 12" Tall Spring
- ALL64234** .... Pre-Loader for 14" Tall Spring
- ALL64212**..... Replacement 3" Bearing Set

### Related Component

- ALL11187**..... Pre-Loader Body Wrench
- ALL11188** ..... Pre-Loader Nut Wrench



## 5" Coil Over Adapter for Spring Pre-Loader

**ALL64187**

Aluminum adapter converts existing spring Pre-Loader from a 3" spring to a 5" spring. Adapter inner hole I.D. is 3" to work with spring Pre-Loader. Sold each, two are typically required.



## Hydraulic 2-1/2" Coil-Over Spring Adjuster

**ALL64220**

Weight jack assembly allows driver to adjust car handling while driving. Turning the adjustment knob will extend spring cup up to 7/8" to increase or decrease spring pressure. Assembly includes hydraulic ram, hydraulic pump with adjustment knob, 9' braided hose, and two washers for use with standard or threaded body shocks. Black anodized finish.



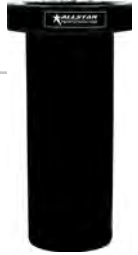
### Replacement Component

- ALL64222** ... O-Ring Kit for ALL64220

## Coil-Over Shock Protector

**ALL64201**

Plastic shock protectors slide over aluminum threaded body shock to protect against wear from spring. Protector measures 6" from spring seat to end, has an I.D. that measures 2-1/4" and works with all 2-1/2" I.D. springs. Unit should just cover shock body and may need to be cut to specific length.



## Shock Protectors

Shock Protectors add extra protection from rocks and debris to your shock body. Plastic protector simply snaps onto your shock body. May need to be cut to length. Sold each.

**ALL64202** ... 2" Standard Body Shocks

**ALL64203** ... 1-5/8" Small Body Shocks



## Shock Shaft Boot **ALL64198**

Rubber bellows style boot is 10" long, one end has an 1-1/4" opening while the other is 2". Boot fits most non-coil-over shocks.



## Shock and Pull Bar Covers

Neoprene covers help protect from rock damage and to keep components clean while preventing the competition from knowing your secrets. Hook-and-loop material allows easy cover removal for adjustments. 3" covers are often used for 2-1/2" and 3" coil-over shocks and small diameter upper links. 6" covers work well on 5" springs and pull bar applications.

**ALL64204** ... 3" x 14"

**ALL64205** ... 3" x 16"

**ALL64206** ... 6" x 7"

**ALL64207** ... 6" x 14"

**ALL64208** ... 6" x 16"

**ALL64209** ... 6" x 20"



## Coil-Over Eliminators

Steel body coil-over eliminator is designed for use with 5" springs and features a removable spring cup for easy spring changes, a large fine thread adjustment nut with a built-in detent and two 1/2" rod ends for mounting. Length listed is fully extended length with 10" of travel.

**ALL64112** .... Standard Length 26"

**ALL64113** .... Extended Length 28"





## Weld-On Shock Brackets

Weld-on shock brackets mount standard and coil-over shocks with 1/2" I.D. inner bushing or 1/2" rod end to chassis as well as many other uses. 1/8" thick mild steel brackets include 1/2" bolt, spacer and locknut.

### Notched Tube Mount

Bracket is notched for 1-1/2" – 1-3/4" round tubing to create a gusset style mount that welds on three sides. Notched design positions the bracket perpendicular to the tubing at a 90° angle for straight mount and approximately a 75° angle for angled mounts.

#### Straight Mount



ALL60103



ALL60104



ALL60112



ALL60113

- ALL60103**..... Short
- ALL60104**..... Long
- ALL60112**..... Long Two Position
- ALL60113**..... Extra Long Three Position

#### Angle Mount



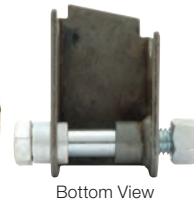
ALL60100



Bottom View



ALL60101



Bottom View

- ALL60100** .... Left Hand
- ALL60101**..... Right Hand

### Round Tube Mount

Bracket welds parallel onto tubing. Typically mounted above or below tubing and includes 1/2" shock mounting hardware. Mounting positions are on 1" centers.

- ALL60107**..... One Position
- ALL60114**..... Two Position
- ALL60115**..... Three Position



ALL60107



ALL60114



ALL60115

### Flat Mount **ALL60106**

Bracket mounts to a flat surface or square tubing.



### Shock Spacers

Steel spacers have a 1/2" I.D. and 3/4" O.D. and can be used in a variety of other locations.



### Shock Bracket Replacement Parts

- ALL99100** .... Bolt, locknut, and bushing
- ALL99101**..... Bushing only

Length	2-Pack	10-Pack	25-Pack
1/4"	<b>ALL64280</b>	<b>ALL64280-10</b>	<b>ALL64280-25</b>
1/2"	<b>ALL64282</b>	<b>ALL64282-10</b>	<b>ALL64282-25</b>
5/8"	<b>ALL64283</b>	<b>ALL64283-10</b>	<b>ALL64283-25</b>
3/4"	<b>ALL64284</b>	<b>ALL64284-10</b>	<b>ALL64284-25</b>

## Clamp-On Shock Brackets

Clamp-on shock brackets mount standard and coil-over shocks with 1/2" I.D. inner bushings to round tubing without welding. Easily add additional mount or pivot mount when experimenting or trying different set-ups. Standard brackets position the shock approximately 1" below the chassis tubing. Drop mount brackets position the shock approximately 2-1/2" below the chassis tubing. Brackets include mounting hardware with nyloc locking nuts.



**Clamp-On**  
**ALL60220** ... 1-3/4"  
**ALL60221** ... 1-1/2"  
**ALL60222** ... 1-1/4"

**Drop Mount Clamp-On**  
**ALL60225** ..... 1-1/2"

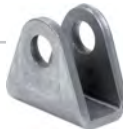
## Upper Coil-Over Shock Mount Kit ALL60230

Weld-in kit provides a mounting point for rear coil-over shock mounts in tube, boxed or stock frames with up to 48" between frame rails. Great for drag racing and street applications, kit includes a 48" long, .120" wall x 1-1/2" mild steel tube, reinforced mounting tabs, 2" x 3" end plates, and 1/2" hardware.



## 1/2" Rod End Mount ALL60073

3/16" thick steel mount with 1/2" holes accepts rod ends up to 5/8" wide. Mount is 1-5/8" tall overall.



## Track Bar Locator Brackets

Track bar locator brackets are an ideal bolt-on mounting point for rod ends commonly found on Panhard bars, track bars or rear axle housing track locators. For use with 1/2" diameter rod ends. Available with a 5/8" or 3/4" bracket mounting hole.



**ALL60079** .... 5/8" Hole, 1" Gap  
**ALL60089** .... 3/4" Hole, 1-3/16" Gap

## Smart Tool ALL10113

Ensure that chassis tubing is level and plumb when building roll cages or checking driveshaft angles. A "hold" button freezes and unfreezes readings which can be displayed as degrees, percentages, or in./ft. at the push of a button. Plus and minus signs indicate when pitch is more or less than that shown on the display. Pitch reads in 1/8 in./ft. increments. Level emits a "beep" at level and plumb. The tool shuts off automatically if idle for more than six minutes. Powered by a standard 9-volt battery.



## Steel Shock Quick Pin ALL60108

Steel shock quick pins allow coil-over shocks to be quickly serviced or changed. Works with Allstar coil-over brackets, eliminating the need for a separate bushing. Shock quick pins are 2-1/2" long and include a hairpin. Sold each.



## Titanium Shock Quick Pins

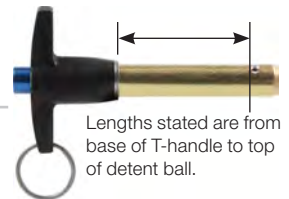
Titanium shock quick pins allow coil-over shocks to be quickly serviced or changed. ALL17120 has a long shoulder and will work with Allstar coil-over brackets, eliminating the need for a separate bushing. ALL17121 is commonly used on non-bushing type brackets, but can be used with Allstar brackets along with bushing. Shock quick pins are 2-1/2" long and include a hairpin.



**ALL17120** ..... Quick Pin with Shoulder  
**ALL17121** ..... Quick Pin without Shoulder

## Quick-Release T-Handle Pins

Positive lock quick-release pins hold tightly in place until the handle button is depressed, allowing the pin to be inserted or removed into or out of a hole with ease. Handles are made from 380 die-cast aluminum, shanks are made from 4130 steel. Each pin is equipped with a stainless steel split ring, allowing the option to attach a cable assembly.



Lengths stated are from base of T-handle to top of detent ball.

**ALL60300** ... 1/4" x 1"      **ALL60314** ... 3/8" x 3"  
**ALL60301** ... 1/4" x 1-1/2"      **ALL60318** ... 1/2" x 2"  
**ALL60302** ... 1/4" x 2"      **ALL60320** ... 1/2" x 2-1/2"  
**ALL60304** ... 5/16" x 1"      **ALL60322** ... 1/2" x 3"  
**ALL60306** ... 5/16" x 2"      **ALL60324** ... 1/2" x 3-1/2"  
**ALL60308** ... 5/16" x 3"  
**ALL60310**.... 3/8" x 1"  
**ALL60312**.... 3/8" x 2"

## Quick Pin Lock Collar

Steel lock collar provides a positive lock for quick release pins. Black coated collar with button head machine screw allows attachment of a securing device, like an Allstar lanyard (ALL18461 or ALL18463).



**ALL60335** .... 1/2" Collar with 10-32 Screw  
**ALL60336** .... 5/8" Collar with 1/4"-28 Screw



## Cut-to-Fit J-Bar Style Panhard Bars

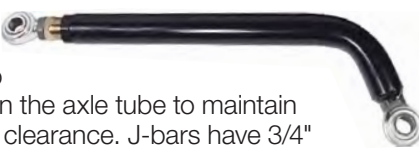
Cut-to-fit bar is an unwelded kit that allows building a custom length J-Bar with up to a 27" long center-to-center distance, enough to work with most chassis. Bar is formed from .250" wall, 1-1/2" diameter steel tubing, has a 4" drop, includes a threaded insert and rod ends.



- ALL56141** ..... Bar with Standard Rod Ends
- ALL56142** ..... Bar with Aircraft Rod Ends
- ALL56143** ..... Replacement 3/4"-16 Insert

## Adjustable J-Bar Style Panhard Bars

Bars are formed from 1-1/2" steel tubing and mount to the pinion rather than the axle tube to maintain adequate driveshaft clearance. J-bars have 3/4" rods ends and allow up to 2" of adjustment.



Part No.	Drop	Description
<b>ALL56155</b>	4"	17-1/2"-19-1/2"
<b>ALL56156</b>	4"	19-1/2"-21-1/2"
<b>ALL56153</b>	6"	17-1/2"-19-1/2"
<b>ALL56154</b>	6"	19-1/2"-21-1/2"

### Replacement Components

- ALL99050** .... Replacement Threaded Adjuster
- ALL99052** .... Adjuster Nut
- ALL58072** .... 3/4" Male Moly Rod End

## Climbing Style Frame Mount Panhard Bar Bracket

### ALL60247

Easily adjust your Panhard bar with only one wrench! Climbing style adjuster allows any amount of adjustment without having to remove or re-align any spacer/tabs. Radiused slot so you don't have to re-square the rear end after adjustments. Aluminum bracket fits 2" x 2" tubing, center/inside mounting.



Adam Terry

## Remote Adjustable Panhard Bar Mounts

Easily adjusted on frame side of Panhard bar, mount has a threaded shaft and fastens to 1-3/4" diameter tubing. Standard mount kit has 2" of adjustment, drop mount kit has 5" of adjustment. Each turn of the shaft moves mount .100". Extension rod may be mounted in rear window or decking for quick, easy adjustments from outside of the car. Mounting hardware and a 3/4" Panhard bar bolt are included.



- ALL60270** .... Standard Mount Kit
- ALL60273** .... Drop Mount Kit

### Replacement Components:

- ALL60272** ... Extension Rod with Bushing
- ALL60274** ..... Flange Bushing

## Clamp-On Panhard Bar Brackets

Adjustable steel or aluminum brackets clamp to square tubing, providing multiple Panhard bar mounting locations. Brackets are tapped for 3/4"-10 bolts. Steel brackets have outer holes 5" apart. Aluminum brackets have outer holes 5.5" apart. Hole measurements are center-to-center.



ALL60240



ALL60245

### Steel Brackets

- ALL60240** .... For 2" x 2" Tubing
- ALL60244** .... For 1-1/2" x 1-1/2" Tubing

### Aluminum Brackets

- ALL60243** .... Straight, for 2" x 2" Tubing
- ALL60245** .... Angled, for 2" x 2" Tubing

## Mini Panhard Bar Clevis

Aluminum clevis clamps to mini sprint and midget chassis providing an adjustable mounting point for a panhard bar. Clevis includes 3/8" mounting hardware with a reducer bushing for mounting panhard bars with 1/2" rod ends.



- ALL60232** .... 1-1/8" I.D.
- ALL60233** .... 1-1/4" I.D.

## Panhard Bar Clevis

Black anodized aluminum clevis clamps around a chassis tube and connects to the 3/4" rod end on the long end of a J-bar style Panhard bar. After loosening the two Allen bolts, the clamp may be slid up or down on the chassis tube to adjust the bar and change roll center.



ALL60183

- ALL60182** ..... 1-1/2" I.D.
- ALL60183** .... 1-3/4" I.D.



## Quick Change Pinion Mount Panhard Bar Brackets

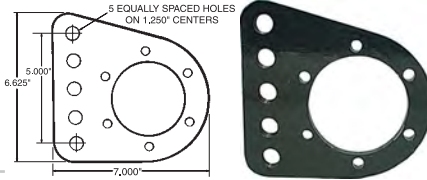


Pinion mounted brackets have a cam style adjuster for quick and easy setup of the Panhard or J-bar. Single cam adjuster features a cog style adjuster nut and threaded back nut that slides with adjuster for easy single wrench adjustment. Aluminum mounts replace the front pinion plate on most quick change rear ends. Radiused mounting slots eliminate the need to adjust J-bar or Panhard bar length.

- ALL60285** .... Single Sided Bracket
- ALL60286** .... Double Sided Bracket

## Quick Change 5-Hole Panhard Bar Bracket

**ALL60170**



Bracket mounts to all standard quick change rear ends with six bolts. Made of 1/2" thick steel, bracket has five 3/4" Panhard bar mounting holes for up to 5" of adjustment.



Mason Metzger



Bryce Bozell



Phil Bozell



Andy Bozell

## Ford 9" Panhard Bar Bracket **ALL60176**

Ford center section bracket is 1/2" thick steel with four 3/4"-16 mounting holes to provide 3-3/8" of adjustment.



## Ford 9" Upper Link Brackets **ALL60157**

Brackets are designed to weld to most Ford 9" style center sections. Steel brackets are 3/16" thick and provide multiple mounting locations for 90/10 shock, upper link, third link, or pull bar. Sold as a set.



## Ford 9" Upper Link Brackets

Ford 9" housing brackets provide a mounting point for upper link. Weld-on brackets fit standard steel Ford housings.



- ALL60160** .... 1" Dia. Holes, Sold in Pairs
- ALL60166** .... 3/4" Dia. Holes, Set of 2

## Quick Change Upper Link Brackets **ALL60150**

Bracket attaches to top of quick change and accepts upper link. Steel bracket has three 3/4" holes, 3" to the rear for forward traction. Sold in pairs.



## Quick Change Upper Link Brackets **ALL60156**

Bracket attaches to top of most quick change rear end center section. Steel bracket is 3/16" thick and provides multiple mounting locations for 90/10 shock, upper link, third link, or pull bar. Sold in pairs.



## Panhard Bar/Third Link Brackets

Brackets have a built-in arch for adjustment of the Panhard bar or third link angle without changing the length of the arm. Brackets are 1/8" thick. Sold as a pair.

- ALL60162** . 6-Hole Brackets with 1/2" Holes
- ALL60163** . 6-Hole Brackets with 5/8" Holes
- ALL60165** . 6-Hole Brackets with 3/4" Holes
- ALL60167** . 5-Hole Brackets with 3/4" Holes

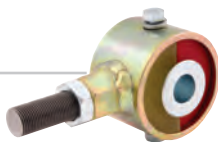


ALL60167



### Third Link Assembly without Bushings **ALL56390**

Designed to increase traction to rear tires, third link assembly uses interchangeable polyurethane bushings (sold separately, two required) to absorb energy under acceleration and braking. Bushings can be quickly changed to adjust to changing track conditions. Assembly is 2-1/4" wide x 3" tall and has a 3/4"-16 RH chrome moly stud for attaching a suspension tube. 3/4" I.D. inner steel bushings are stepped to keep link centered in poly bushings. A good starting point is a 70 durometer acceleration bushing and 90 durometer brake bushing.



- ALL56391** .... Half Bushing Green, 50 Durometer
- ALL56392** .... Half Bushing Orange, 60 Durometer
- ALL56393** .... Half Bushing Yellow, 70 Durometer
- ALL56394** .... Half Bushing Blue, 80 Durometer
- ALL56395** .... Half Bushing Red, 90 Durometer

### Upper Link Adjustable Spacer Kit **ALL60178**

Kit includes two adjustable spacers to place on each side of your top link, pull bar, or third link. Aluminum spacers feature a threaded body that may be adjusted as needed to locate top link between mounting brackets. Spacers are designed for 3/4" hardware and adjust from 1-3/4" to 2-1/2" wide.



### Upper Link Spacer Kits

Kits with multiple spacers allow the top link to be positioned wherever needed between brackets. Spacers have a 3/4" I.D. hole. Kits include bolt, nut, and spacers.



- ALL60148**..... Spacer Kit with Steel Spacers
- ALL60158**..... Spacer Kit with Aluminum Spacers

### 90/10 Spacer Kits

Kits with multiple spacers allow positioning of the 90/10 shock wherever needed between brackets. Spacers have a .500" I.D. hole. Kits include bolt, nut, and spacers.



- ALL60149**..... Spacer Kit with Steel Spacers
- ALL60159**..... Spacer Kit with Aluminum Spacers



Brett Yackey

### Poly Bushings

Poly bushings are designed for racing and work great in pull bars (torque links) and bump stops. Bushings' progressive rate start softly and quickly "ramp up." Bushings provide excellent performance when loaded, offering good abrasion and solvent resistance. Sold each.



ALL56374

Part No.	Color	Hardness	O.D.	I.D.	Height
<b>ALL56369</b>	Green	50	2.25"	.75"	1.06"
<b>ALL56370</b>	Purple	60	2.25"	.75"	1.06"
<b>ALL56372</b>	Yellow	75	2.25"	.75"	1.06"
<b>ALL56373</b>	Blue	80	2.25"	.75"	1.06"
<b>ALL56374</b>	Red	87	2.25"	.75"	1.06"
<b>ALL56375</b>	Orange	55	3.375"	.75"	2.50"
<b>ALL56376</b>	Yellow	75	3.375"	.75"	2.50"
<b>ALL56378</b>	Blue	80	3.375"	.75"	2.50"
<b>ALL56379</b>	Red	87	3.375"	.75"	2.50"

### Bushing Washers

Required between poly bushings when stacking for optimum performance.



- ALL99178**..... Steel Washer for 2-1/4" Bushings
- ALL99179**..... Aluminum Washer for 2-1/4" Bushings

### Rubber Bushings

Bushings absorb torque from rear end and may also be used as replacement in other applications. Sold each.



ALL56161

ALL56162

- ALL56161**..... 3" O.D., 1-1/2" Tall, 5/16" Shoulder
- ALL56162**..... 3" O.D., 1-1/2" Tall, No Shoulder

### Convex Steel Washer

#### ALL18440

Washer features a convex shape to work with many rubber and poly bushings and measures 2-5/8" O.D. with a 3/4" I.D. Sold each.



### Shock And Pull Bar Covers

Neoprene covers help protect from rock damage and keep components clean while preventing the competition from knowing your secrets. Hook-and-loop material allows easy cover removal for adjustments. 3" covers are often used for 2.5" and 3" coil-over shocks and small diameter upper links. 6" covers work well on 5" springs and pull bar applications.



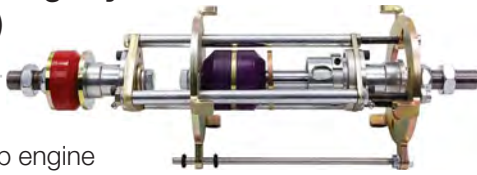
- ALL64204** .... 3" x 14"
- ALL64205** .... 3" x 16"
- ALL64206** .... 6" x 7"
- ALL64207** .... 6" x 14"
- ALL64208** .... 6" x 16"
- ALL64209** .... 6" x 20"



### Spring/Bushing Style Pull Bar (Dual Shaft)

**ALL56368**

Torque link uses a coil spring to absorb engine torque and increase traction to rear tires. The dual-shaft design allows engine torque and brake bushings to be adjusted separately. Unit comes with two purple (60 durometer) engine torque bushings and one red (87 durometer) brake bushing. Other bushings are available for additional tuning options. Unit requires a 5" O.D. x 6-5/8" or 7" tall coil spring, sold separately. Unit is 17" long overall and most commonly used with two 3/4"-16 rods ends (1-RH Female and 1-LH Male) and a 3/4" suspension tube. Subtract 20" from center-to-center of the chassis mounting distance to determine required tube length. 9.3 lbs. without spring.



### Small Bushing Style Pull Bar (Dual Shaft)

**ALL56362**

Small bushing torque link features a reduce diameter (only 3-1/2") for more compact applications and utilizes energy absorbing polyurethane bushings to absorb engine torque and increase traction to rear tires. Pull bar includes three blue (80 durometer) and two red (87 durometer) poly bushing on the engine torque side. This bushing combination works similar to a progressive spring; the softer bushings collapse at a faster rate than the harder bushings until the unit is solely working on the hardest bushing. A single red (87 durometer) poly brake bushing is also included. The dual shaft design allows engine torque and brake bushings to be adjusted separately. Unit is 19" long overall and only weighs 8lbs. Subtract 22" from center to center of the chassis mounting distance to determine required tube length.



### Spring/Bushing Style Pull Bar (Single Shaft)

**ALL56366**

Torque link uses a combination of coil spring and poly bushings to absorb engine torque and increase traction to rear tires. Ideal for the experienced driver and a car with radical suspension travel. Torque link comes standard with two yellow (75 durometer) poly bushings on the engine torque side and a single red (87 durometer) poly brake bushing. Other bushings are available for additional tuning options. Unit requires a 5" O.D. x 6-5/8" or 7" tall coil spring, sold separately. Unit is 16" long overall and most commonly used with two 3/4"-16 rod ends (1-RH Male and 1-LH Male) and a 3/4" suspension tube. Subtract 19" from center-to-center of the chassis mounting distance to determine required tube length. 8.5 lbs. without spring.



### Bushing Style Pull Bar (Dual Shaft)

**ALL56365**

Torque link uses energy absorbing polyurethane bushings to absorb engine torque and increase traction to rear tires. Includes one blue (80 durometer) and one yellow (75 durometer) poly bushings on the engine torque side and a single red (87 durometer) poly brake bushing. These durometers work well for a majority of racers, especially those running open class mods such as UMP and USMTS cars. Other bushings are available for unlimited tuning options. Unit is 19-1/2" long overall and most commonly used with two 3/4"-16 rod ends (1-RH Female and 1-LH Male) and a 3/4" suspension tube. Subtract 22-1/2" from center to center of the chassis mounting distance to determine required tube length. 11 lbs.



### Spring Style Pull Bar (Dual Shaft)

**ALL56367**

Torque link uses a coil spring to absorb engine torque and increase traction to rear tires. The dual-shaft design allows engine torque and brake bushings to be adjusted separately. A single red (87 durometer) poly bushing is included. Other bushings are available for additional tuning options. Unit requires a 5" O.D. x 6-5/8" or 7" tall coil spring, sold separately. Unit is 18-1/2" long overall and most commonly used with two 3/4"-16 rods ends (1-RH Female and 1-LH Male) and a 3/4" suspension tube. Subtract 21-1/2" from center-to-center of the chassis mounting distance to determine required tube length. 8.5 lbs. without spring.



### Bushing Style Pull Bar (Single Shaft)

**ALL56364**

Torque link uses energy absorbing polyurethane bushings to absorb engine torque and increase traction to rear tires. Includes two blue (80 durometer) poly bushings on the engine torque side and a single red (87 durometer) poly brake bushing. These durometers work well for a majority of racers, especially those running open class mods such as UMP and USMTS cars. Other bushings are available for unlimited tuning options. Unit is 15-1/2" long overall and most commonly used with two 3/4"-16 rod ends (1-RH Male and 1-LH Male) and a 3/4" suspension tube. Subtract 18-1/2" from center-to-center of the chassis mounting distance to determine required tube length. 9.23 lbs.







## Steel Suspension Tubes

Swaged D.O.M. tubes are black zinc coated. 3/4" O.D. tubes are .065" thick. 7/8" O.D. tubes are .083" thick. 1" O.D. tubes are .095" thick.



Length	1/2" Thread 3/4" O.D.	5/8" Thread 7/8" O.D.	3/4" Thread 1" O.D.
4"	ALL57052	ALL57152	-
4-1/2"	-	ALL57153	-
5"	ALL57054	ALL57154	ALL57254
5-1/2"	-	ALL57155	-
6"	ALL57056	ALL57156	ALL57256
6-1/2"	-	ALL57157	-
7"	ALL57058	ALL57158	ALL57258
7-1/2"	-	ALL57159	-
8"	ALL57060	ALL57160	ALL57260
9"	ALL57062	ALL57162	ALL57262
10"	ALL57064	ALL57164	ALL57264
11"	ALL57066	ALL57166	ALL57266
11-1/2"	-	ALL57167	-
12"	ALL57068	ALL57168	ALL57268
12-1/2"	-	ALL57169	-
13"	ALL57070	ALL57170	ALL57270
13-1/2"	-	ALL57171	-
14"	ALL57072	ALL57172	ALL57272
14-1/2"	-	ALL57173	-
15"	ALL57074	ALL57174	ALL57274
15-1/2"	-	ALL57175	-
16"	ALL57076	ALL57176	ALL57276
17"	ALL57078	ALL57178	ALL57278
18"	ALL57080	ALL57180	ALL57280
19"	ALL57082	ALL57182	ALL57282
20"	ALL57084	ALL57184	ALL57284
21"	ALL57086	ALL57186	ALL57286
22"	ALL57088	ALL57188	ALL57288
23"	ALL57090	ALL57190	ALL57290
24"	ALL57092	ALL57192	ALL57292
25"	ALL57094	-	ALL57294
26"	ALL57096	-	-
27"	ALL57098	-	-
28"	ALL57099	-	-

## Bent Steel Suspension Tubes

Bent tubes work in place of standard suspension tubes for additional clearance around suspension components. Tubes are constructed of .160" wall tubing with 5/8"-18LH threads on the straight 7/8" O.D. steel end and 5/8"-18RH threads on the curved end.



- |                        |                       |
|------------------------|-----------------------|
| ALL57008 .... 10"      | ALL57018 .... 15"     |
| ALL57010 ..... 11"     | ALL57019 .... 15-1/2" |
| ALL57012 ..... 12"     | ALL57020 .... 16"     |
| ALL57013 ..... 12-1/2" | ALL57021 .... 16-1/2" |
| ALL57014 ..... 13"     | ALL57022 .... 17"     |
| ALL57015 ..... 13-1/2" | ALL57024 .... 18"     |
| ALL57016 ..... 14"     | ALL57026 .... 19"     |
| ALL57017 ..... 14-1/2" | ALL57028 .... 20"     |

## Heavy-Duty Steel Suspension Tubes

Heavy-duty tubes are built from .160" wall 1026 DOM mild steel tubing for increased durability over standard steel suspension tubes and feature RH and LH threaded ends with a black powder-coated finish.



Length	5/8"-18 Thread 7/8" O.D.	3/4"-16 Thread 1" O.D.	Length	5/8"-18 Thread 7/8" O.D.	3/4"-16 Thread 1" O.D.
5"	ALL57344	ALL57444	15-1/2"	ALL57365	-
6"	ALL57346	ALL57446	16"	ALL57366	ALL57466
7"	ALL57348	ALL57448	16-1/2"	ALL57367	-
8"	ALL57350	ALL57450	17"	ALL57368	ALL57468
9"	ALL57352	ALL57452	18"	ALL57370	ALL57470
10"	ALL57354	ALL57454	19"	ALL57372	ALL57472
11"	ALL57356	ALL57456	20"	ALL57374	ALL57474
12"	ALL57358	ALL57458	21"	ALL57376	ALL57476
12-1/2"	ALL57359	-	22"	ALL57378	ALL57478
13"	ALL57360	ALL57460	22-1/2"	-	-
13-1/2"	ALL57361	-	23"	ALL57380	ALL57480
14"	ALL57362	ALL57462	23-1/2"	-	-
14-1/2"	ALL57363	-	24"	ALL57382	ALL57482
15"	ALL57364	ALL57464	25"	ALL57384	ALL57484

## Threaded Tubing Ends

Chrome moly 4130 steel tubing ends are ideal for building custom length suspension tubes. Available in RH and LH threads.



Thread Size	Tubing Size	Tube End Insert O.D.	RH Part No.	LH Part No.
10-32	3/8" x .058"	.259"	ALL22500	-
5/16"-24	1/2" x .058"	.384"	ALL22504	-
3/8"-24	5/8" x .058"	.509"	ALL22508	ALL22509
3/8"-24	3/4" x .058"	.634"	ALL22512	ALL22513
1/2"-20	7/8" x .058"	.759"	ALL22518	ALL22519
1/2"-20	1" x .058"	.884"	ALL22522	ALL22523
1/2"-20	1" x .065"	.870"	ALL22526	ALL22527
1/2"-20	1-1/8" x .058"	1.00"	ALL22530	ALL22531
5/8"-18	1" x .058"	.884"	ALL22534	ALL22535
5/8"-18	1" x .095"	.810"	ALL22538	ALL22539
5/8"-18	1-1/4" x .095"	1.060"	ALL22542	ALL22543†
5/8"-18	1-1/4" x .120"	1.010"	ALL22546	ALL22547†
3/4"-16	1-1/4" x .065"	1.120"	ALL22548	ALL22549†
3/4"-16	1-1/4" x .095"	1.060"	ALL22550	ALL22551†
3/4"-16	1-1/4" x .120"	1.010"	ALL22554	ALL22555†
3/4"-16	1-3/8" x .095"	1.185"	ALL22558	ALL22559†

† Tube end has built-in hex for adjusting.

## Smart Tool ALL10113

Ensure that chassis tubing is level and plumb when building roll cages or checking driveshaft angles. Powered by a standard 9-volt battery.





## Aluminum Hex Suspension Tubes



Used in steering and suspension systems, hex tubes are easy to install and easy to adjust. Available in 7/8" hex with 5/8" threads tapped RH and LH, and 1-1/8" hex with 3/4" threads tapped RH and LH, tubes are black anodized for appearance and corrosion resistance. 6061-T6 material.

Length	5/8" Thread	3/4" Thread	Length	5/8" Thread	3/4" Thread
3"	-	ALL56703	21"	ALL56621	ALL56721
4"	-	ALL56704	22"	ALL56622	ALL56722
5"	-	ALL56705	23"	-	ALL56723
6"	-	ALL56706	24"	-	ALL56724
7"	ALL56607	ALL56707	25"	-	ALL56725
8"	ALL56608	ALL56708	26"	-	ALL56726
9"	ALL56609	ALL56709	27"	-	ALL56727
10"	ALL56610	ALL56710	28"	-	ALL56728
11"	ALL56611	ALL56711	29"	-	ALL56729
12"	ALL56612	ALL56712	30"	-	ALL56730
13"	ALL56613	ALL56713	32"	-	ALL56732
14"	ALL56614	ALL56714	34"	-	ALL56734
15"	ALL56615	ALL56715	36"	-	ALL56736
16"	ALL56616	ALL56716	38"	-	ALL56738
17"	ALL56617	ALL56717	40"	-	ALL56740
18"	ALL56618	ALL56718	42"	-	ALL56742
19"	ALL56619	ALL56719	44"	-	ALL56744
20"	ALL56620	ALL56720			

## Unthreaded 72" Hex Suspension Tubes

**ALL56672** .... 72" x 7/8" Hex for 5/8" Rod Ends  
**ALL56772** .... 72" x 1-1/8" Hex for 3/4" Rod Ends

## Aluminum Suspension Tubes

Swaged 1-1/8" O.D. tubes are built from .156" wall tubing and have 5/8" RH and LH threads.



Length	5/8" Thread Black Anodized	5/8" Thread Polished Aluminum
10"	ALL56806-10	ALL56807-10
11"	ALL56806-11	ALL56807-11
12"	ALL56806-12	ALL56807-12
12-1/2"	ALL56806-125	ALL56807-125
13"	ALL56806-13	ALL56807-13
13-1/2"	ALL56806-135	ALL56807-135
14"	ALL56806-14	ALL56807-14
14-1/2"	ALL56806-145	ALL56807-145
15"	ALL56806-15	ALL56807-15
16"	ALL56806-16	ALL56807-16
17"	ALL56806-17	ALL56807-17
18"	ALL56806-18	ALL56807-18
18-1/2"	ALL56806-185	ALL56807-185
19"	ALL56806-19	ALL56807-19
19-1/2"	ALL56806-195	ALL56807-195
20"	ALL56806-20	ALL56807-20
20-1/2"	ALL56806-205	ALL56807-205
21"	ALL56806-21	ALL56807-21
21-1/2"	ALL56806-215	ALL56807-215
22"	ALL56806-22	ALL56807-22
22-1/2"	ALL56806-225	ALL56807-225
23"	ALL56806-23	ALL56807-23
23-1/2"	ALL56806-235	ALL56807-235
24"	ALL56806-24	ALL56807-24
24-1/2"	ALL56806-245	ALL56807-245

## Aluminum Suspension Tubes

Clear anodized tubes have a machined wrench flat on one end for ease of adjustment. Tubes have .156" wall thickness, are available in two diameters and a variety of lengths. The 56400 series tubes are 7/8" in diameter and both ends are tapped 5/8", one RH and LH. The 56500 series tubes are 1" in diameter and both ends are tapped 3/4", one RH and one LH. 6061-T6 aluminum.

Length	5/8" Thread	3/4" Thread	Length	5/8" Thread	3/4" Thread
5"	ALL56405	-	18"	ALL56418	ALL56518
6"	ALL56406	-	19"	-	ALL56519
7"	ALL56407	-	20"	-	ALL56520
8"	ALL56408	-	21"	-	ALL56521
9"	ALL56409	-	22"	-	ALL56522
10"	ALL56410	-	23"	-	ALL56523
11"	ALL56411	-	24"	-	ALL56524
12"	ALL56412	ALL56512	25"	-	ALL56525
13"	ALL56413	ALL56513	26"	-	-
14"	ALL56414	ALL56514	27"	-	-
15"	ALL56415	ALL56515	28"	-	-
16"	ALL56416	ALL56516	29"	-	-
17"	ALL56417	ALL56517	30"	-	-



## Unthreaded 72" Suspension Tubes

**ALL56472** ..... 7/8" O.D. Tube for 5/8" Rod Ends  
**ALL56572** ..... 1" O.D. Tube for 3/4" Rod Ends

## Rod Ends

Two-piece spherical rod ends have a pivoting steel ball and are sold each.



Bore x Thread	RH Male	LH Male	RH Female	Strength
<b>Standard Series Steel</b>				
1/4" x 1/4"-28	<b>ALL58004</b>	<b>ALL58014</b>	<b>ALL58034</b>	2,835 lbs
5/16" x 5/16"-24	<b>ALL58005</b>	<b>ALL58015</b>	<b>ALL58035</b>	4,517 lbs
3/8" x 3/8"-24	<b>ALL58006</b>	<b>ALL58016</b>	<b>ALL58036</b>	6,323 lbs
1/2" x 1/2"-20	<b>ALL58008</b>	<b>ALL58018</b>	<b>ALL58038</b>	10,046 lbs
5/8" x 5/8"-18	<b>ALL58010</b>	<b>ALL58020</b>	<b>ALL58040</b>	15,488 lbs
3/4" x 3/4"-16	<b>ALL58012</b>	<b>ALL58022</b>	<b>ALL58042</b>	15,894 lbs
3/4" x 3/4"-16‡	<b>ALL58013*</b>	-	-	15,894 lbs
<b>Pro Series Steel (Moly) – Black</b>				
1/2" x 1/2"-20	<b>ALL58058</b>	<b>ALL58068</b>	-	17,000 lbs
1/2" x 5/8"-18	<b>ALL58059</b>	<b>ALL58069</b>	-	19,300 lbs
5/8" x 5/8"-18	<b>ALL58060</b>	<b>ALL58070</b>	-	18,000 lbs
3/4" x 3/4"-16	<b>ALL58062</b>	<b>ALL58072</b>	-	25,000 lbs
<b>Pro Series Steel (Moly) – Black (PTFE Lined)</b>				
1/2" x 1/2"-20	<b>ALL58078</b>	<b>ALL58083</b>	-	-
1/2" x 5/8"-18	<b>ALL58079</b>	<b>ALL58084</b>	-	17,650 lbs
5/8" x 5/8"-18	<b>ALL58080</b>	<b>ALL58085</b>	-	15,200 lbs
3/4" x 3/4"-16	<b>ALL58082</b>	<b>ALL58086</b>	-	21,400 lbs
<b>Aluminum – Black</b>				
1/2" x 1/2"-20	<b>ALL58088</b>	<b>ALL58098</b>	-	7,700 lbs
1/2" x 5/8"-18	<b>ALL58089</b>	<b>ALL58099</b>	-	15,000 lbs

\*ALL58013 has an oversized hole and is for use with steering shaft tubing.

## Heavy-Duty 3/4" Chrome Moly Rod Ends

Heavy-duty or often referred to as "Aircraft Style", these 4130 chrome moly rod ends have larger bodies, making them 30% stronger than standard 3/4" rod ends. These rod ends are commonly used on Panhard bars and lower strut rods.

**ALL99314**..... RH Male, 3/4" x 3/4"-16  
**ALL99315**..... RH Female, 3/4" x 3/4"-16



## 3/4" Solid Rod End **ALL58112**

Solid rod ends are built using 1045 steel and are then chrome plated for added wear resistance. End has a body width of 7/8" to match the width of standard rod ends.



## Bolt Center Caps **ALL10678**

Caps slip over the head of standard 1/2" bolts to accurately measure the center-to-center length of installed suspension tube assemblies. Machined step secures the end of a standard tape measure for easy reading of the length to the center of the opposite cap. Caps feature a built-in O-ring that allows the cap to swivel on the bolt head and keeps it from falling off. Package of 2.



## Jam Nuts – Standard Hex

Allstar jam nuts have many uses. Great for locking rod ends tightly on suspension tubes or rack and pinion steering units. Package of 4, unless noted.



Size	Steel	Aluminum
1/4"-28 RH	<b>ALL18250</b>	-
1/4"-28 LH	<b>ALL18251</b>	-
5/16"-24 RH	<b>ALL18252</b>	-
5/16"-24 LH	<b>ALL18253</b>	-
3/8"-24RH	<b>ALL18254</b>	<b>ALL18274</b>
3/8"-24 LH	<b>ALL18255</b>	<b>ALL18275</b>
7/16"-20 RH	<b>ALL18256</b>	<b>ALL18276</b>
7/16"-20 LH	<b>ALL18257</b>	<b>ALL18277</b>
1/2"-20 RH	<b>ALL18258</b>	<b>ALL18278</b>
1/2"-20 LH	<b>ALL18259</b>	<b>ALL18279</b>
5/8"-18 RH	<b>ALL18260</b>	<b>ALL18280</b>
5/8"-18 LH	<b>ALL18261</b>	<b>ALL18281</b>
3/4"-16 RH	<b>ALL18262</b>	<b>ALL18282</b>
3/4"-16 LH	<b>ALL18263</b>	<b>ALL18283</b>
3/4"-10 RH	<b>ALL18264†</b>	-
7/8"-9 RH	<b>ALL18266†</b>	-
1"-8 RH	<b>ALL56110†</b>	-

† Sold Each.

## Steel Jam Nut Assortments

Assortments contain five each of 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 5/8"-18, and 3/4"-16.



**ALL18290**..... 35 Asst. RH Jam Nuts  
**ALL18291**..... 35 Asst. LH Jam Nuts

## Jam Nuts – Small Hex

Specialty jam nuts have smaller outside diameters, allowing smaller wrenches to be used when changing radius rod lengths. Example: With 1/2" bolts, the same 3/4" wrench can be used to adjust radius rod or mounting hole locations. Package of 4.



Thread Size	Wrench Size	Steel	Alum.	Black Alum.
5/8"-18 RH	3/4"	<b>ALL18292</b>	<b>ALL18296</b>	<b>ALL18286</b>
5/8"-18 LH	3/4"	<b>ALL18293</b>	<b>ALL18297</b>	<b>ALL18287</b>
3/4"-16 RH	15/16"	<b>ALL18294</b>	<b>ALL18298</b>	<b>ALL18288</b>
3/4"-16 LH	15/16"	<b>ALL18295</b>	<b>ALL18299</b>	<b>ALL18289</b>

## Mono Ball Bearings

Mono balls are commonly used in fabrication of products including J-bars, control arms and trailing arms. Bearings have an external grease ring and orifice which allows the bearing to be installed in custom applications that can be externally lubricated.

**ALL58001** .... 5/8"  
**ALL58002** .... 3/4"





## High Misalignment Reducer Spacers

Dual-purpose spacers reduce fastener size mounting hole and allow the rod end to rotate more than 30° in each direction, which is 25% more than most standard spacers. Stainless steel spacers resist rust and corrosion. Package of 2.



Rod End Size	I.D.	O.D. "A"	Length "B"	Overall Width "C"	Part No.
5/8"	1/2"	.750"	.465"	1.68"	<b>ALL18785</b>
3/4"	1/2"	.890"	.475"	1.825"	<b>ALL18786</b>
3/4"	5/8"	.890"	.475"	1.825"	<b>ALL18787</b>

## 5/8" Rod End Reducer Spacers

Reducer spacers fit into 5/8" rod ends, reducing the hole size for 1/2" hardware while also spacing the rod end away from chassis brackets. Standard spacers are 3/4" O.D. and angled spacers have 1" O.D. angles to help support rod end. Size referenced indicates the amount of space between rod end pivot ball and chassis bracket. Package of 2.



### Standard Spacers

- ALL18615** ..... Aluminum, 1/2"
- ALL18617** ..... Aluminum, 1"
- ALL18618** ..... Aluminum, 1-1/4"
- ALL18619** ..... Aluminum, 1-3/4"



### Flanged Spacers

- ALL18611** ..... Aluminum, 1/4"
- ALL18613** ..... Aluminum, 1/2"
- ALL18610** ..... Steel, 1/4"
- ALL18612** ..... Steel, 1/2"



## Rod End Reducer Bushings

Steel bushings reduce the rod end pivot ball I.D. to accept a smaller bolt size.



O.D. To I.D.	2-Pack	10-Pack
1/2" To 3/8"	<b>ALL18565</b>	<b>ALL18565-10</b>
5/8" To 1/2"	<b>ALL18566</b>	<b>ALL18566-10</b>
3/4" To 1/2"	<b>ALL18567</b>	<b>ALL18567-10</b>
3/4" To 5/8"	<b>ALL18568</b>	<b>ALL18568-10</b>

## Shock Spacers

Steel spacers have a 1/2" I.D. and 3/4" O.D. and can be used in a variety of other locations.



Length	2-Pack	10-Pack	25-Pack
1/4"	<b>ALL64280</b>	<b>ALL64280-10</b>	<b>ALL64280-25</b>
1/2"	<b>ALL64282</b>	<b>ALL64282-10</b>	<b>ALL64282-25</b>
5/8"	<b>ALL64283</b>	<b>ALL64283-10</b>	<b>ALL64283-25</b>
3/4"	<b>ALL64284</b>	<b>ALL64284-10</b>	<b>ALL64284-25</b>

## Aluminum Flat Spacers

Flat spacers are great for shimming and adding additional clearance to brackets for brake calipers, power steering, alternators, dry sump pumps or just about anything to help with alignment issues. Package of 2.



Length	3/8" I.D. (11/16" O.D.)	1/2" I.D. (1" O.D.)
1/8"	<b>ALL18740</b>	<b>ALL18760</b>
1/4"	<b>ALL18742</b>	<b>ALL18762</b>
3/8"	<b>ALL18744</b>	<b>ALL18764</b>
1/2"	<b>ALL18746</b>	<b>ALL18766</b>

## Tapered Spacers

Universal spacers have many uses including spacing rod ends on link-ages to prevent binding or just to provide clearance. Spacers provide a finished look when fitting body panels or spacing components away from doors and rewalls. Package of 2.



I.D.	Small O.D.	Large O.D.	Length	Steel	Aluminum
1/4"	.345	.500	1/4"	-	<b>ALL18700</b>
			1/2"	-	<b>ALL18702</b>
5/16"	.475	.625	1/4"	-	<b>ALL18706</b>
			1/2"	-	<b>ALL18708</b>
3/8"	.525	.680	1/4"	-	<b>ALL18712</b>
			1/2"	-	<b>ALL18714</b>
			1"	-	<b>ALL18716</b>
1/2"	.740	.995	1/4"	<b>ALL18570</b>	<b>ALL18590</b>
			3/8"	<b>ALL18571</b>	-
			1/2"	<b>ALL18572</b>	<b>ALL18592</b>
			3/4"	<b>ALL18574</b>	<b>ALL18594</b>
			1"	<b>ALL18576</b>	<b>ALL18596</b>
5/8"	.825	.995	1-1/2"	<b>ALL18578</b>	<b>ALL18595</b>
			1/4"	<b>ALL18580</b>	<b>ALL18597</b>
			1/2"	<b>ALL18582</b>	<b>ALL18598</b>
			3/4"	<b>ALL18584</b>	<b>ALL18599</b>
3/4"	.950	1.125	1"	<b>ALL18586</b>	-
			1-1/2"	<b>ALL18585</b>	-
			1/2"	<b>ALL18587</b>	-
			3/4"	<b>ALL18588</b>	-
			1"	<b>ALL18589</b>	-

## GM Trailing Arm Rod End Reducer Bushings

Reducer bushings are used with spherical rod ends to take the place of the OE style trailing arm bushing when building custom or adjustable lower trailing arms on popular GM cars. Bushing size listed is for size of rod end being used and both bushings accept 1/2" mounting hardware.



**ALL18790** ..... 5/8"

**ALL18792** ..... 3/4"



### 6th Coil Assembly **ALL64315**

6th Coil Assembly Unit bolts in the center of the chassis to 1-1/2" tubing and the bottom connects to the front of a lift bar using the supplied 18" long chain which accepts 3/8" hardware and can be easily cut to required length. Accepts a 4" tall by 2-1/2" I.D. coil over spring (sold separately).



Spring not included.

### 5th Coil Mount **ALL60218**

1-1/2" aluminum bracket bolts in the center of the chassis to mount a 5th coil shock assembly.



### QC Lift Bar Brackets

Brackets mount to quick change rearends and accept most popular lift bars. Package of 2.



ALL68314

ALL68317

- ALL68313**..... Steel Lower with 5/8" Hole
- ALL68314**..... Steel Lower with 5/8" Hole (3/4" Drop)
- ALL68317**..... Aluminum Upper with 5/8" Hole
- ALL68318**..... Aluminum Upper with 3/4" Hole

### Lift Bar Retainer Clamp **ALL68325**

Bracket clamps around 3" axle tubes to provide a mounting point for a lift bar support rod. 1" wide bracket has angled tabs with 1/2" holes for mounting a strut rod with 1/2" rod ends.



Top View

### Birdcage Bearings

Bearings replace damaged or binding bearings in most popular birdcages. Bearing O.D. is 3.625", inner race is .875" wide and outer shell is .745" wide.

- ALL72330** .... 3.004"
- ALL72332**..... 3.008"



ALL72332

### Limit Chain Clamp, 2-Piece

Two-piece clamp bolts around most 3" O.D. axle tubes to provide a lower mounting point for a suspension limit chain. Two-piece design features a nylon liner allowing clamp to be installed without removing existing brake brackets and hubs.



- ALL68336** .... Steel
- ALL68337** .... Aluminum

### Limit Chain Clamps 1-Piece

1-piece bearing style clamp slides over the end of most 3" O.D. axle tubes to provide a lower mounting point for a suspension limit chain.



- ALL68332** .... Steel
- ALL68333** .... Aluminum

### Retainer Clamps, 2-Piece

Retainer clamp bolts around most 3" O.D. axle tubes to keep birdcages, outer brackets, limit chain clamps in position. 2-piece design allows clamp to be installed without removing existing brake bracket and hub.



- ALL68338** .... Steel
- ALL68339** .... Aluminum

### Retainer Clamps, 1-Piece

Steel retainer clamp slides over the end of most 3" O.D. axle tubes to keep birdcages, outer brackets, and limit chain clamps in position. Powder-coated black finish.



Part No.	Description	Width	Thickness	Mounting Hardware
<b>ALL68326</b>	Lightweight	1/2"	1/8"	1/4"
<b>ALL68327</b>	Heavy-Duty	5/8"	1/4"	3/8"

## Clamp-On Rings for 3" Axle Tubes

Clamp-on rings fasten around most 3" axle tubes to use as a starting point for building custom trailing arms, shock and spring mounts and many other uses. Ring are constructed using 3/16" wall material and feature a two-piece design for easy installation and removal.



ALL60145

- ALL60144**..... 2-Bolt, 1" Wide
- ALL60145**..... 2-Bolt, 1-3/4" Wide
- ALL60146**..... 2-Bolt, 2" Wide
- ALL60147**..... 4-Bolt, 3" Wide

## Axle Tube Bracket

Bracket clamps around 3" wide axle tubes to provide a mounting point for a suspension limiter such as a limiting strap or chain. 1" wide bracket with double shear tabs.



- ALL68323** .... Bracket with 3/8" Holes
- ALL68324** .... Bracket with 1/2" Holes

## Coil-Over Load Bolt Assembly

### ALL56074

Threaded aluminum bolt is 6" long with 1-1/8"-12 ne threads and is commonly used as an adjustable travel limiter. Also used with ALL56098 threaded sleeve.



## Replacement Component

- ALL56075** .... Replacement Shock End

## Ride Height Set-Up Stick ALL10658

Stick replaces the coil-over shock and spring assembly during maintenance. Stick has many uses and may be adjusted to check settings at normal ride height, in race attitude, or on the bump stops to evaluate suspension travel. Adjusts from 15" to 24", measured at the center of 1/2" rod ends.



Cory Crapser

## Suspension Limiters

Single-bushing suspension limiter is commonly used on the chassis LR or RR to limit travel during acceleration "hike up" and control roll steer. Dual-bushing limiter is often used on the lift bar to control lift bar travel on deceleration. Bushing design reduces or absorbs shock when suspension is limited and helps reduce tire unloading. Top plate is drilled to attach a 1/2" rod end when used in a shock mount or for attaching to a weight jack bolt with 7/16"-20 internal threads using optional chrome moly stud ALL64304. Clevis has a 3/8" hole for simple attachment to a chain or cable.



- ALL64300** .... Single Bushing Limiter
- ALL64302** .... Dual Bushing Limiter
- ALL64346** .... Bushing for ALL64302
- ALL56372** .... Bushing for ALL64302
- ALL64305** .... Clevis 1/2"-20 Thread w/ 3/8" Hole
- ALL64304** .... Chrome Moly Stud w/ Jam Nut 7/16"-20

## Limiter Chain Kit

Commonly used to limit rear suspension or lift bar travel. Chain is 18" long and can be easily cut to required length. Shrink sleeve installs over chain, and when heated with a heat gun, shrinks to keep chain in position and prevent chain from binding or catching on itself.



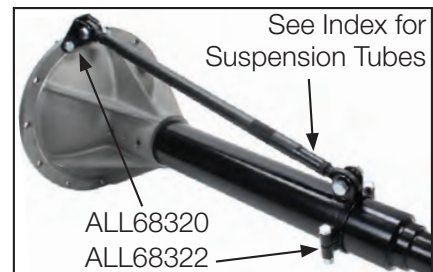
- ALL64312**..... 3/16" Diameter Accepts 3/8" Pin or Bolt
- ALL64314**..... 5/16" Diameter Accepts 1/2" Pin or Bolt

## QC Axle Tube Support Brackets

Brackets provide mounting points for a strut rod assembly to help eliminate ex found in quick change rear ends. ALL68320 attaches to the side bell bolts on most quick change rear ends. ALL68322 has tabs with 5/8" holes and mounts directly onto a 3" axle tube.



- ALL68320** .... Center Section Mount
- ALL68322** .... Axle Tube Mount







## Center-Pull Birdcage

### ALL60410

Birdcage clamps around most 3" O.D. machined axle tubes to provide a lower mounting point for a suspension. The two-piece design features a nylon liner allowing clamp to be installed without removing existing brake brackets and hubs. Clamp measures 3-1/4" wide including retaining clamps and accepts a 3/4" suspension tube.



## Clamp-On Trailing Arm Bracket

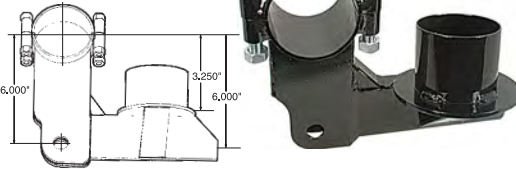
### ALL60138

Aluminum bracket clamps to a 3" diameter axle tube, has three 3/4"-10 mounting holes for trailing arm location and a 1/2"-13 socket head bolt with two 1/4" spacers for mounting a coil-over shock. An additional locking bolt installs into the axle tube to help prevent the bracket from turning. May be used on the right or left hand side of housing. 3.4 lbs.



## Clamp-On Trailing Arm Bracket

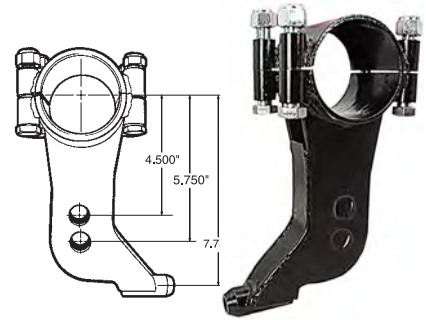
Steel bracket clamps on 3" axle tube to provide mounts for shock, trailing arm and 5" O.D. coil spring. Grade 5 hardware included.



ALL60140..... LH Bracket  
ALL60141..... RH Bracket

## Clamp-On Trailing Arm Brackets

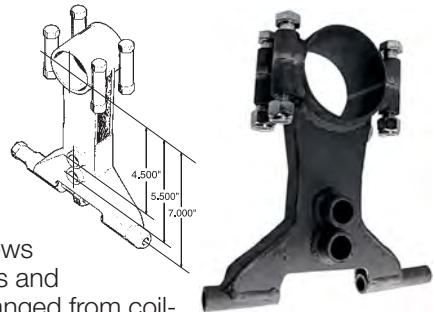
Steel brackets clamp on 3" axle tube for attachment of coil-over shocks and trailing arms. Available with two 3/4" holes or a 2" slot. Grade 5 hardware and Nyloc nuts included.



ALL60134..... Bracket with Two 3/4" Holes  
ALL60135..... Bracket with 2" Slot

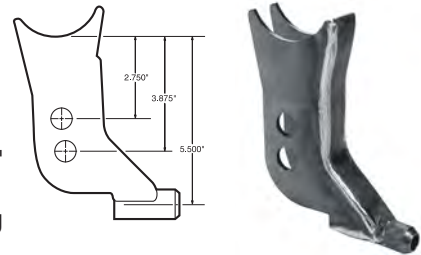
## Clamp-On Trailing Arm Bracket ALL60136

Universal bracket mounts coil-over eliminator and shock next to axle and mounts trailing arm 4-1/2" below axle centerline, either inside or outside of bracket. Allows Limited Late Models and Modifieds to be changed from coil-over to coil-over eliminator and shock. Grade 5 hardware and Nyloc nuts included.



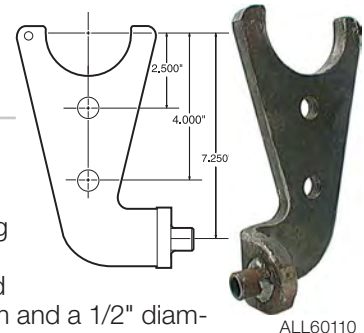
## Weld-On Trailing Arm Bracket ALL60126

Weld-on lower bracket to 3" axle tube to mount coil-overs and trailing arms. Bracket are 3/16" steel with 9/16" shock hole and features two 3/4" trailing arm holes.



## Weld-On Trailing Arm/ Shock Brackets

Flame-cut 1/2" thick steel brackets weld to 3" diameter axle tube, providing mounting points for trailing arm and shock. Brackets have two 3/4"-10 threaded holes to mount trailing arm and a 1/2" diameter hole with spacer for mounting a shock.



ALL60110..... LH Bracket  
ALL60111..... RH Bracket

SUSPENSION



Bubba Pollard

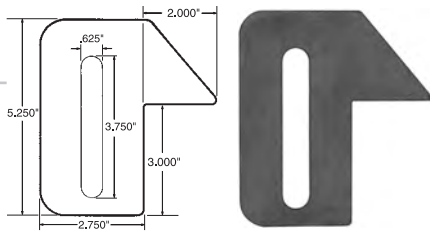
Brian Campbell

## Trailing Arm Brackets

Steel brackets can be used as front mount for leaf spring or trailing arm. Assorted styles are available. Sold each.

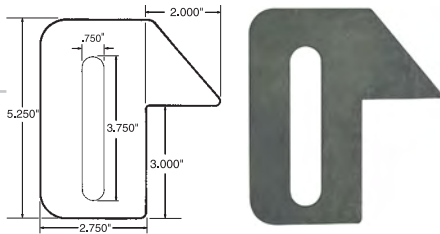
### ALL60043

5/8" slot, 3/16" thick, 3-3/4" long.



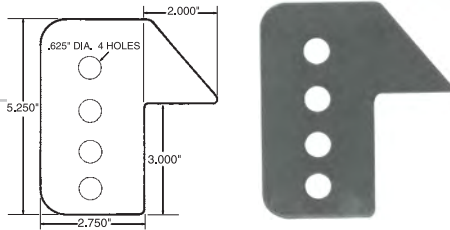
### ALL60044

3/4" slot, 3/16" thick, 3-3/4" long.



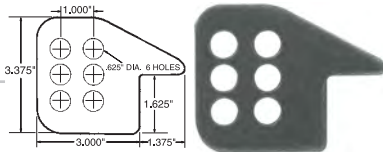
### ALL60045

5/8" holes, 1/8" thick.



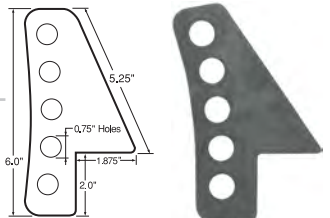
### ALL60046

5/8" holes, 3/16" thick.



### ALL60048

3/4" holes, 1/8" thick.



## Trailing Arm Bracket ALL60042

Weld-on bracket has a curved 3/4" slot so rear end remains square as the trailing arm is raised or lowered. Notched for 2" x 3" square tubing. 1/4" thick.

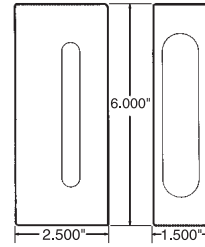


## Slider Boxes

Slider boxes weld to the chassis and provide an adjustable mount for trailing arms, Panhard bars and upper links. Boxes are constructed of .120" wall material and are 1-1/2" wide x 2-1/2" deep x 6" tall, with a 4" slot that provides 3" of adjustment.

ALL60186 .... 4" x 1/2" Slot

ALL60188 .... 4" x 3/4" Slot



## Slider Box Quick Adjust Kit

### ALL60198

Weld-on kit adds an adjustable feature to standard 3/4" slider boxes. Slider boxes commonly used for trailing arms, Panhard bars and upper links can now be quickly adjusted with a wrench, socket or possibly a remote adjuster. 3/4"-16 threaded adjuster block features a reference indicator.



## Slider Box T-Nuts

T-nuts have slot built in to keep them from turning. No second wrench is needed to tighten or loosen. Use with ALL60186 and ALL60188 slider box. Sold each.



ALL60194..... 1/2"-13 (Coarse Thread)

ALL60195..... 1/2"-20 (Fine Thread)

ALL60196 .... 5/8"-11 (Coarse Thread)

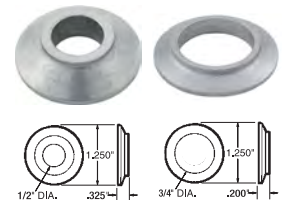
ALL60197..... 5/8"-18 (Fine Thread)

ALL60192..... 3/4"-10 (Coarse Thread)

ALL60193..... 3/4"-16 (Fine Thread)

## Slider Box Rod End Spacers

Steel spacers are machined to work with ALL60186 and ALL60188 slider boxes fitting between bracket and rod end to properly space rod end and prevent binding. May also be used as standard rod end spacers.



ALL60187..... Spacers for 1/2" Slider Box, 2-Pack

ALL60187-10..... Spacers for 1/2" Slider Box, 10-Pack

ALL60189..... Spacers for 3/4" Slider Box, 2-Pack

ALL60189-10..... Spacers for 3/4" Slider Box, 10-Pack

## Swing Arms

Lower rear suspension link with a 3/4" rod end on one end and threads in the other end to accept a 3/4" RH male rod end. Used on Dirt Late Models and Modifieds.

ALL56052 .... 13-1/2"

ALL56053 .... 15-1/2"



## GM Metric Trailing Arms

New, stamped steel C-channel arms are strong and sturdy. Improve handling of the rear suspension on 1978-88 GM metric chassis by replacing twisted or worn out rear control arms. Sold each.

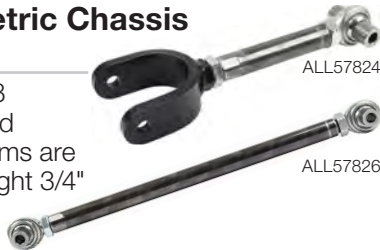
**ALL57820** .... Upper, 2.6 lbs.  
**ALL57822** .... Lower, 3.6 lbs.



## Adjustable GM Metric Chassis Trailing Arms

Adjustable steel 1978-88 G-body Metric upper and lower rear end trailing arms are complete with left and right 3/4" rod ends, step spacers reducing to a 1/2" hole and cut to fit stock GM type mounts. Upper arm aids in adjusting pinion angle and centering rear end. Lower arm will adjust wheel base.

**ALL57824** .... Upper  
**ALL57826** .... Lower



## GM Trailing Arm Rod End Reducer Bushings

Reducer bushings are used with spherical rod ends to take the place of the OE style trailing arm bushing when building custom or adjustable lower trailing arms on popular GM cars. Bushing size listed is for size of rod end being used and both bushings accept 1/2" mounting hardware.

**ALL18790** ..... 5/8"  
**ALL18792** ..... 3/4"



## Universal Trailing Arm Brackets

Brackets have three 1/2" mounting holes spaced 1-1/4" apart and may be welded to 3" axle tubes to provide three trailing arm mount locations. ALL60058 is made of 3/16" steel and welds to the top of the rear end housing, providing an attachment point for upper trailing arms.

**ALL60050** .... Lower Bracket  
**ALL60051** .... Shock Bracket For Lower  
**ALL60058** .... Upper Bracket



## Metric Upper Trailing Arm Mounts

Mounts weld to the top of Ford 9" housing creating a mounting point for GM Metric chassis upper trailing arms. Bushings not included.



## GM Metric Chassis Trailing Arm Bracket Kits

Includes rear upper and lower trailing arm mounts. Upper mount must be cut to desired height depending on where housing is located in the chassis.



**ALL60052** .... Kit with Single Hole Lower in Stock Location  
**ALL99282** .... Brackets Only, 1 Pair  
**ALL60053** .... Kit with Single Hole Lower, Lowered to Increase Traction  
**ALL99283** .... Brackets Only, 1-Pair  
**ALL60054** .... Kit with Multi-Hole Lower  
**ALL99284** .... Brackets Only, 1-Pair

## GM Trailing Arm Bushing

**ALL56245**

Direct replacement, heavy duty polyurethane bushing improves handling and traction. Fits most '65-88 Chevy Chevelle/Malibu, Buick Skylark/GS, Olds Cutlass/442 and Pontiac LeMans/GTO. Accepts 1/2" hardware.



## GM Trailing Arm Bushing

**ALL56247**

GM bushing with an elastomer bearing insert improves handling and traction while eliminating bind. Use with stock trailing arms for race or street. Fits most 1965-88 Chevy Chevelle/Malibu, Buick Skylark/GS, Olds Cutlass/442 and Pontiac LeMans/GTO. Accepts 1/2" hardware.



## GM Trailing Arm Bushing with Insert

**ALL56248**

Popular GM bushing features an interchangeable polyurethane insert which can be exchanged to increase or decrease rear steer for maximum traction. Bushing includes a 40 durometer insert. Use with stock or adjustable trailing arms. Fits most 1965-88 Chevy Chevelle/Malibu, Buick Skylark/GS, Olds Cutlass/442 and Pontiac LeMans/GTO. Accepts 1/2" hardware.



### Related Components

**ALL99400** .... Black Insert 40 Durometer (Soft)  
**ALL99401** .... Yellow Insert 60 Durometer (Medium)  
**ALL99402** .... Red Insert 80 Durometer (Hard)





### Bolt-On Spring Cup **ALL56117**

Aluminum cup for 5" spring features a 1/2" mounting hole for use with internal threaded jack bolts, used as a rear lower cup or modified to fit shock shafts.



### Lower Spring Cups

Steel spring cup has a 7" wide curved base that welds to the top of a 3" diameter rear end axle tube creating a flat mounting surface for 5" O.D. racing springs. Commonly used to replace OE style "pigtail" lower spring mount. Sold each.

**ALL56124**..... Standard Cup  
**ALL56123**..... Lightweight Cup



### Leaf Spring Pad **ALL56126**

Steel pad welds to 3" diameter rear end axle tube when mounting rear end to most leaf springs. Pad is 2-1/2"W by 5-3/4"L and has a 5/8" center pilot hole. Sold each.



### Clamp-On Lower Spring Pad **ALL56127**

Steel clamp-on leaf spring pad fits 3" diameter axle tubes. Pad measurements are the same as ALL56126. Sold each.



### Aluminum Lowering Blocks

Easily adjust ride height on leaf spring cars. Standard and adjustable styles are available in extruded or billet aluminum. Blocks are 2-1/2"W x 5"L. Sold each.

Part No.	Height	Pin Dia.
<b>Extruded Aluminum</b>		
<b>ALL56130</b>	1"	9/16"
<b>ALL56131</b>	1-1/2"	9/16"
<b>ALL56132</b>	2"	9/16"
<b>ALL56133</b>	2-1/2"	9/16"
<b>ALL56134</b>	3"	9/16"
<b>Billet Aluminum</b>		
<b>ALL56060</b>	3/4"	5/8"
<b>ALL56061</b>	1"	5/8"
<b>ALL56062</b>	1-1/2"	5/8"
<b>ALL56063</b>	2"	5/8"
<b>ALL56064</b>	2-1/2"	5/8"
<b>ALL56065</b>	3"	5/8"
<b>ALL56136*</b>	1-1/2" Adj.	5/8"
<b>ALL56138*</b>	2-1/2" Adj.	5/8"



\*Pins on blocks can be adjusted 1-1/4" to the front or rear of center position.

### Leaf Spring U-Bolt **ALL68344**

Leaf spring u-bolt fits 3" axle tubes, has a 1/2" diameter and is 10" long. Heat treated steel bolt is sold each.



### U-Bolt Pads

Universal style U-bolt pads fit 3" diameter axle tubes and leaf springs up to 2-1/2" wide using 1/2" U-bolt fasteners. Center alignment hole is 5/8" to accept most lowering blocks or spring bolts. 1/4" thick formed steel pads have a gusseted shock mount with a welded bung to accept 1/2" mounting hardware.



**ALL60036** .... RH Pad  
**ALL60037** .... LH Pad  
**ALL60038** .... Dual Mount Pad

### Leaf Spring Slider Box **ALL60034**

Leaf spring slider box replaces conventional leaf spring shackles to enable effortless suspension movement and prevent binding. Box may be welded or bolted directly to chassis, and includes two nylon bushings with spring mounting hardware. Fits 2-1/2" wide Chrysler type leaf springs.



**Replacement Components**  
**ALL99055** .... Bushings, 2-Pack

### Leaf Spring Slider Box **ALL60035**

Replace rear leaf spring shackles with Allstar's leaf spring slider box. Bolt-in slider box with roller bearing design eliminates leaf spring binding, freeing up car. Fits 2-1/2" wide Chrysler type leaf springs.



### Leaf Spring Shackles

6-hole brackets for mounting leaf springs are 9" L x 2" W and have 1/2" diameter holes spaced 1" on center. Package of 2.

**ALL60055** .... Steel 1/4" Thick  
**ALL60056** .... Aluminum 3/8" Thick



### Wheelie Bar Wheels

Billet 6061-T6 aluminum wheels are molded with a durable 4" O.D. polyurethane tire that will not dent or give like a rubber tire. Wheels are available with or without bearings and accept 3/8" mounting hardware. Mounting width: non-bearing wheel is 1-5/8", bearing style wheel is 1-1/4".



**Without Bearings** (1.625" Wide Mount)

**ALL60510**..... 5-Spoke  
**ALL60512**..... 5-Hole  
**ALL60514**..... 10-Spoke

**With Bearings** (1.250" Wide Mount)

**ALL60511**..... 5-Spoke  
**ALL60513**..... 5-Hole  
**ALL60515**..... 10-Spoke



SUSPENSION

### Tubing Notcher ALL10411

Notcher works with most standard hole saws to create a notch on end of round tubing for properly attaching round tubing to round tubing, often used when building roll cages, bumpers, or custom chassis. Notcher features an adjustable holding structure which automatically centers tubing to create a notch from 90-45 degrees in tubing up to 2". Notcher is commonly clamped into a bench vise or bench mounted and used with a hand drill. Note: Hole saw used should be the size of tube accepting notched tube.



#### Replacement Component

**ALL10402**..... 5/8"-18 Thread Adapter

Tubing notcher includes a 1/2"-20 arbor thread and 5/8"-18 adapter. Most hole saws up to 1-1/8" diameter use 1/2"-20, larger hole saws use 5/8"-18 thread.



ALL10402

### Hole Saw Set ALL10412

Use with tubing notchers. Does not include an arbor for a hand drill. Set includes one of each size: 3/4", 1", 1-1/4", 1-1/2", 1-5/8", and 1-3/4". Hole saws up to 1" diameter use 1/2"-20 thread; larger hole saws use 5/8"-18 thread.



#### Individual Hole Saws

**ALL10413** ..... 3/4"

**ALL10414** ..... 1"

**ALL10416** ..... 1-1/4"

**ALL10417** ..... 1-1/2"

**ALL10418** ..... 1-5/8"

**ALL10419** ..... 1-3/4"

Note: Hole saws up to 1" diameter use 1/2"-20 thread; larger hole saws use 5/8"-18 thread.

### Compact Digital Level ALL10742

Digital level with magnetic base measures the angle of a single straight surface or the angle of a joint between two straight surfaces. Displayed value on the LCD screen rotates to right side up when digital level is in an upside down position. Powered by three 3V CR2032 batteries (included). 2" x 2" x 1".



### Punch and Flare Tools

Add strength and a smooth finish to hole edges. Unique tools can be used to punch and flare new holes, or to flare existing holes. Starting with a small center hole, the punch halves bolt together to cut and flare at the same time.



**ALL11070** ..... 1-1/2"

**ALL11072** ..... 1-3/4"

**ALL11074** ..... 2"

**ALL11075** ..... 2-1/2"

**ALL11076** ..... 2-5/8"

**ALL11078** ..... 3"



Sample Punch and Flare

### Smart Tool ALL10113

Ensure that chassis tubing is level and plumb when building roll cages or checking driveshaft angles. Powered by a standard 9-volt battery.



### Tin Snips

Durable tin snips have offset blades to keep hands clear of metal while cutting. Non-slip jaws cut through sheet aluminum and up to 18-gauge low carbon steel. Blade length 1-1/4", total tool length 9-1/4".



**ALL11030** .... Red Grips, Straight and LH Cut

**ALL11031** ..... Green Grips, Straight and RH Cut

### Deburring Tool ALL11036

A fast and easy way to remove burrs from the edges of machined or cut metals. Five-piece kit includes handle, telescopic blade holder and three unique blades. Handle has built-in storage for blades. Blade holder adjusts from 1" to 5".



#### Replacement Component

**ALL99328** .... Blades 3-pk

### Graphic Trim Tool ALL23101

**ALL23101**

Unique tool allows you to easily trim your graphics around wheel openings and other body panel edges. Adjustable width allows you to choose how far you want your material from the edge and the adjustable head gives you a wide range of options in tight or open areas.



**NEW**

### Body Roller ALL23102

This handy "highside" body roller will allow you to straighten body and deck panels while still on your car! Must have item for at track repairs.





### Body Radius Tool **ALL23100**

Solid oak tool can be used to round edges of wheel openings when fabricating fenders and quarter panels out of aluminum. Tool has two different radiuses to create the correct curve for your needs.



### Sheet Metal Shrinker Stretcher Combo

Make smooth radius curves and contours with Allstar's shrinker/stretcher combo. Shrinker creates inside curves and stretcher expands for outside curves. Each completely assembled tool includes a handle and mounting hardware for securing to a workbench. Tools are capable of forming 18-gauge mild steel, 16-gauge aluminum and 20-gauge stainless. Kit is great for forming fenders, radiator shrouds, or any item needing a smooth radius curve.



**ALL11023** ..... 1 Base with Two Jaws  
**ALL11024** ..... 2 Bases with Two Jaws

### Spring Steel Drill Bit **ALL23115**

Specially hardened drill bit is required for drilling spring steel. The 17/64" size simplifies installation of 1/4" hardware. Sold each.



### Hammer Type Spring Steel Punch **ALL23116**

Hammer type punch places a 1/4" diameter hole 1/2" from the end of most 1" x .062" thick spring steel material. Punch features a built-in stop which positions the material for accurate hole placement. Punch needs to be placed on a hard surface (i.e. concrete floor, steel anvil, etc.) and struck lightly with a 3- to 4-lb. hammer.



**Replacement Component**  
**ALL99013** .... Mandrel for ALL23116

### Impact Gun Spring Steel Punch **ALL23117**

Impact gun style punch places a 1/4" diameter hole 1/2" from the end of most 1" x .062" thick spring steel material. Punch features a built-in stop which positions the material for accurate hole placement. Punch may be placed in a vise or handheld and impact gun driven using a 3/4" socket.



**Replacement Component**  
**ALL99014**..... Mandrel for ALL23117  
**ALL99173**..... Mandrel Bolt

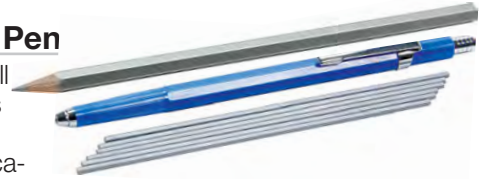
### 43/64" Wheel Stud Drill Bit **ALL11045**

43/64" bit is correct for drilling hubs or axle flanges to accept most 5/8" wheel studs with .690" knurl diameter. 1/2" shank.



### Fabrication Pen

Pencil works well for marking lines during metal layout and fabrication. Multiple uses include marking steel tubing for cutting or notching and marking patterns on painted aluminum or steel sheet metal. Silver reflective marks work best against darker surfaces during cutting or welding for high visibility. Pencil marks are resistant to torch flames and will not burn or rub off.



**ALL12064**..... Pencil, 3-Pack  
**ALL12066**..... Mechanical Pencil, with Six Refills

### Step Drill Sets

Drill multiple size holes with one bit. Drill sheet metal and aluminum without deforming or distorting. Bits start on contact, deburr and chamfer while drilling, and do not require a center punch. Titanium nitride-coated high-speed steel. 1/4" shank.



**ALL11040 (3-Piece Set)**

Drill Bit	Sizes
Six Step	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"
Nine Step	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
Thirteen Step	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"

**ALL11041 (2-Piece Set)**

Drill Bit	Sizes
Eleven Step	1/4", 25/64", 35/64", 11/16", 13/16", 7/8", 1", 1-1/8", 1-7/32", 1-1/4", 1-3/8"
Twelve Step	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"

### Double-Ended Drill Bits

Double-ended bits are basically two bits in one. Convenient bit can be flipped around for a fresh sharp bit when drilling panels for Cleco fasteners or rivets. Package of 6.



**ALL18201** ..... 1/8"  
**ALL18204**..... 3/16"

### Drill Bit for Flange Rivets 13/64"

**ALL18203**  
A common size bit for working with 3/16" angle type rivets. High-speed steel bits have black oxide finishes and self-centering tips. Flute length: 1-3/16", overall length: 2-1/4". Package of 2.







## Cordless Rivet Gun

**ALL18212**

Quickly set steel and aluminum mandrel rivets anywhere without the need of an air compressor. Kit includes 3/32", 1/8", 5/32", and 3/16" nose pieces, 3-in-1 spanner wrench, (2) 14.4-volt Li-ion batteries, charger, and plastic carrying case.



## Air Rivet Gun **ALL18210**

Durable air riveter speeds up assembly and quickly fastens steel or aluminum rivets into various materials. Includes nose pieces for 3/32", 1/8", 5/32", and 3/16" rivets.



## Deluxe Air Rivet Gun

**ALL18207**

Heavy-duty air rivet gun can be used with steel or aluminum rivets from 3/32" to 3/16".



### Replacement Components

- ALL18209**..... Jaw Set
- ALL99255** .... Nose Piece Set 3pcs
- ALL99256** .... Mandrel Cup

## Hand Rivet Gun

**ALL18206**

Includes interchangeable nosepieces for 3/32", 1/8", 5/32", and 3/16" diameter rivets.



Kyle Krump

## Threaded Insert Tool Kit

**ALL19450**

Tool works with a cordless drill to install a threaded insert into a panel or bracket. Inserts are helpful when the backside of the panel is not easily accessible. Simply drill the correct size hole, install the threaded insert onto the mandrel, then place the insert into the hole and tighten using any cordless drill. Once the insert is compressed, reverse the drill and remove the mandrel from the insert. Kit includes mandrel and nosepiece for 1/4"-20, 5/16"-18, and 3/8"-16 inserts, other sizes available separately. Threaded inserts sold separately.



### Replacement Components

- ALL19452**..... Mandrel and Nosepiece for 8-32
- ALL19453**..... Mandrel and Nosepiece for 10-24
- ALL19454**..... Mandrel and Nosepiece for 10-32
- ALL19455**..... Mandrel and Nosepiece for 1/4"-20
- ALL19456**..... Mandrel and Nosepiece for 5/16"-18
- ALL19457**..... Mandrel and Nosepiece for 3/8"-16



## Threaded Inserts

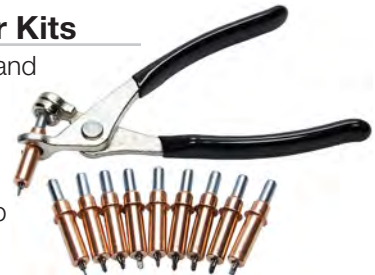
Steel inserts are helpful when the backside of the panel is not easily accessible. Inserts work great for frequently removed items including gauge panels, switch panels, access panels, and body panels or when mounting items to trailer walls. Inserts are designed for installation using insert tool ALL19450 with coordinating mandrel and nosepiece. Package of 10.



Part No.	Thread Size	Pilot Hole Size	Grip Range	Body Length (Before Comp.)
<b>ALL19460</b>	8-32	17/64"	Up to .080"	.420"
<b>ALL19461</b>	10-24	5/16"	Up to .130"	.475"
<b>ALL19462</b>	10-32	5/16"	Up to .130"	.475"
<b>ALL19463</b>	1/4"-20	13/32"	Up to .165"	.580"
<b>ALL19465</b>	5/16"-18	17/32"	Up to .150"	.690"
<b>ALL19467</b>	3/8"-16	17/32"	Up to .150"	.690"

## Cleco Pin Fastener Kits

Cleco pins are reusable and easily make a temporary connection between pieces of sheet metal during fitting. Pins will work with thicknesses up to 1/4", kits include pliers and 10 pins.



- ALL18221**..... Kit with 1/8" Pins
- ALL18225**..... Kit with 3/16" Pins

## Cleco Pliers **ALL18220**

Unique tool readily installs and removes Cleco fasteners.



### Pin Type Cleco Fasteners

Cleco pins permit quick, easy installation and removal of sheet metal during fitting. Pins work with thicknesses up to 1/4".

#### 1/8" Dia. Pins

- ALL18222**..... 10-Pack
- ALL18223**..... 25-Pack
- ALL18224**..... 100-Pack

#### 3/16" Dia. Pins

- ALL18226** .... 10-Pack
- ALL18227** .... 25-Pack
- ALL18228** .... 100-Pack

TECH TIP: Drill holes one drill size smaller than the Cleco pin size to assure a tight fit.



### 1/4" Pin Type Cleco Fastener

#### ALL18234

Cleco Pins are temporary fasteners that can easily be installed or removed in 1/4" holes when fitting sheet metal or chassis tabs using the ALL18220 Cleco Pliers. 1/4" size pin is ideal to use in place of body bolts or other 1/4" fasteners. Package of 10.



### Clamp Type Cleco Fastener

#### ALL18230

Use when drilling is not an option. Smooth throat prevents paint damage, and spring exerts strong clamping pressure. Throat depth is 1" with a maximum clamping range of 1/2".



### Quick Turn Fastener Tool

The quick turn fastener tool fits slot head fasteners and reduces the risk of body panel or fastener damage when using screwdrivers for loosening or tightening.

- ALL19400**..... Tool with Flat Handle
- ALL19401**..... Tool with Screwdriver Handle



### Quick Turn Spring Adjuster ALL19405

This tool is a must when adjusting tension of quick turn springs. Simply turn knob on adjuster to evenly pull or push spring without kinking or breaking spring.



### Transfer Punches

Used to mark quick turn fastener locations, place transfer punch in the initial hole in weld plate or body panel. Position the panel to be marked over top of punch and lightly tap with a hammer.

- ALL19402**..... For 5/16" Fasteners
- ALL19403**..... For 7/16" Fasteners



### Quick Turn Spring Fixture

Accurately drill panels when installing quick turn fastener springs. Start with a 1/4" center hole and use the fixture to locate and drill 1/8" holes for mounting the springs. Size listed is spring center-to-center distance.

- ALL19406**..... Fixture for 3/4" Spring
- ALL19407**..... Fixture for 1" Spring
- ALL19408**..... Fixture for 1-3/8" Spring



### Spindle Checker Tool Kit

Assure correct alignment of the upper and lower ball joint when checking for bent spindles. Insert slugs into spindle and guide rod will fit through slugs if spindle isn't bent. Kits fit most aftermarket race and GM stock Metric spindles.

- ALL11176**..... Kit with GM Lower, K6117/K772
- ALL11177**..... Kit with Chrysler Lower, K727/K772
- ALL11184**..... Kit for GM Metric, K6145/K5208



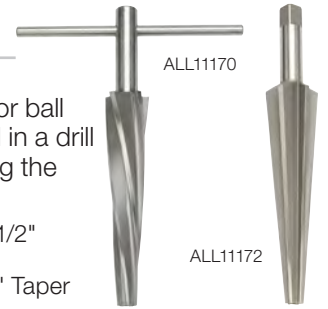
### Individual Components

- ALL99140**..... GM Lower Slug K6117 Style
- ALL99141**..... Chrysler Lower Slug K727 Style
- ALL99158**..... GM Metric Lower Slug K6145 Style
- ALL99142**..... Upper Slug K772 Style
- ALL99159**..... GM Metric Upper Slug K5208 Style
- ALL99143**..... Guide Rod

### Taper Reamers

Repair or enlarge tapered holes to accept tie rod ends or ball joints. Reamers may be used in a drill with a 1/2" chuck by removing the T-handle.

- ALL11170**..... Reamer, 7.15°, 1-1/2" Taper Per Ft.
- ALL11172**..... Reamer, 9.56°, 2" Taper Per Ft.



### Taper Reamer Specifications for Ball Joints

Taper Per Ft.	Reference Part No.
1-1/2"	K6024
2"	K6141
2"	K6136
1-1/2"	K5103
2"	K6117
1-1/2"	K772
1-1/2"	K727
1-1/2"	K719
2"	K6145
2"	K5208

### Ball Joint Spreader Tool ALL11174

Tool separates ball joint from the spindle. Inside of cylinder is shaped to fit over tapered stud of most ball joints and presses against stud of other ball joint. Not for use on FWD or 4WD applications. Tool is 4" tall fully collapsed and 6" tall fully extended.

### Related Component

- ALL11175**..... 1" Extensions (Set of two)



### Spindle Slug Tool ALL11182

Tool easily removes spindle slugs that are pressed into fabricated spindles with a standard wrench or socket.



## Taps

Tungsten steel taps are titanium coated. Economy taps are available in right-hand and left-hand threads.

- ALL11060** ... 1/4"-20 RH
- ALL11061** ... 1/4"-28 RH
- ALL11062** ... 3/8"-16 RH
- ALL11063** ... 3/8"-24 RH
- ALL11064** ... 1/2"-20 RH
- ALL11065** ... 1/2"-20 LH



- ALL11066**...5/8"-18 RH
- ALL11067**...5/8"-18 LH
- ALL11068** ..3/4"-16 RH
- ALL11069**...3/4"-16 LH

## NPT Taps

Alloy steel taps work well for chasing and cleaning threads before installing fittings and plugs.

- ALL11056** ..... 1/8"-27NPT
- ALL11057** ..... 1/4"-18NPT
- ALL11058** ..... 3/8"-18NPT
- ALL11059** ..... 1/2"-14NPT



## Thread Files

Remove burrs from damaged or rusted external threads on bolts, spindles, axle tubes, threaded shaft, pipe, and pipe fittings. Choose from three different files, each 8-1/2" long. Standard and metric sizes.

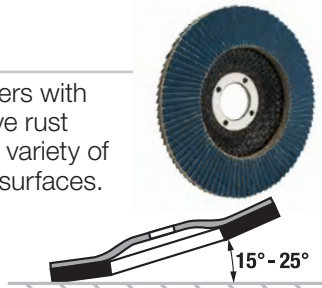
- ALL11037** ..... 11-12, 13-14, 16-18, 20-24TPI
- ALL11038** ..... 9-10, 12-16, 20-27, 28-32TPI
- ALL11039** ..... .80-1.00, 1.25-1.50, 1.75-2.00, 2.50-3.00mm



## Flap Wheel Sanding Discs

Flap discs for 4-1/2" grinders with a 7/8" arbor quickly remove rust and other coatings from a variety of metal, stainless and steel surfaces. Ideal for grinding welds or preparing materials for welding. Sold each.

- ALL12121** ..... 60 Grit
- ALL12122** ..... 80 Grit
- ALL12123** ..... 120 Grit



Flaps angled at 8° for increased surface contact and aggressive use. Best used at 15° - 25° angle.

## Emery Cloth Rolls

1" wide emery cloth is perfect for many uses around the shop and trailer including cleaning, deburring and polishing. 150' box.

- ALL12130** ..... 60 Grit
- ALL12131** ..... 120 Grit
- ALL12132** ..... 180 Grit



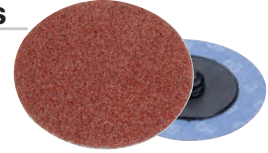
## Twist-Lock Backing Pad **ALL12100**

Twist-lock backing pad accepts 2" twist lock style cleaning or sanding discs and features a 1/4" arbor to work with most drills or 90° die grinders. Pad is rated up to 30,000 rpm.



## Twist-Lock Sanding Discs

2" O.D. sanding discs are great for sanding a variety of parts and surfaces. Use with ALL12100 twist-lock backing pad (sold separately). Package of 10.



- ALL12105** ..... 60 Grit
- ALL12106** ..... 80 Grit
- ALL12107** ..... 120 Grit

## Twist-Lock Cleaning Discs

2" O.D. twist-lock discs are great for cleaning gasket material or paint from parts and surfaces. Use with ALL12100 twist lock backing pad (sold separately). Package of 5.



- ALL12101** ..... Coarse
- ALL12102** ..... Medium
- ALL12103** ..... Fine

## Safety Wire Twister Pliers

**ALL10120**

Never lose another race because of loose bolts. Rugged pliers have an end bearing for smoother, faster twisting, especially in tight areas where a second pull is needed.



## Safety Wire

Wire is used to mechanically lock pre-drilled fasteners for added security. Type 302/304 stainless steel wire features high corrosion resistance and good tensile strength in applications up to 500 degrees. Sold in a 1-lb. spool enclosed in a convenient dispensing container.

- ALL10121** ..... .032" Diameter
- ALL11008** ..... .041" Diameter



## Safety Wire Drill Fixture

**ALL10122**

Accurately drill holes in fasteners, allowing them to be mechanically locked in place with safety wire. Fixture accommodates most 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" socket head and hex-head fasteners. Guide bolt tightens against fastener, holding it secure for drilling. Fixture includes two guide bolts and two 1/16" drill bits conveniently stored within the fixture.



## Replacement Component

**ALL99102**..... 1/16" Drill Bits, 2-Pack



## Dial Indicator with Magnetic Base

**ALL96414**

Dial indicator with magnetic base is a necessity when degreasing a camshaft, checking crankshaft end play, deck heights, dome heights, transmission end play, or ring and pinion backlash. Universal magnetic base may be mounted anywhere. Shockproof dial indicator has 1" of travel in .001" increments. Base and dial indicator may also be purchased separately.

**ALL96415**..... Dial Indicator Only  
**ALL96416**..... Magnetic Base Only



## Digital Calipers 0-6" with Case

Measure inside, outside, and depth dimensions with easy-to-read Metric or SAE LCD display, in .001" increments up to 6". On/Off switch conserves battery and zero setting assures accurate readings. Plastic case provides additional battery storage.



## Dial Caliper

Quality hardened stainless steel dial caliper is shockproof and capable of measuring items from .001" to 6" in increments of .001". Includes protective carrying case.



## Runout Checker

**ALL96440**

Fixture provides an easy way to check for bent axles, torque tubes, drive shafts, torsion bars, or radius rods. Fixture measures 16-1/2" overall.



## Braided Hose Cutter



Tired of the jagged edges left after cutting braided hose with a hacksaw? Heavy-duty hose cutter makes clean, snag-free cuts every time. 1-3/8" forged steel jaws will cut up to -20AN steel braided hose.

## Replacement Component

**ALL11002** .... Blades for ALL11000

## Koul Tool Kits

If you have ever struggled while building stainless steel braided lines, the Koul Tool is for you! Insert fitting into the specially designed holder to help guide braided hose into fitting. Kits include tools, fitting adapters for most fittings, detailed assembly instructions, and storage case. Not for use with PTFE-style hoses.



**ALL11080** ..... Koul Tool Kit -4AN to -8AN  
**ALL11081** ..... Koul Tool Kit -6AN to -10AN  
**ALL11082** ..... Koul Tool Kit -10AN to -16AN  
**ALL11083** ..... Koul Tool Kit -4AN to -16AN  
**ALL11085** ..... -6AN Kit  
**ALL11086** ..... -8AN Kit  
**ALL11087** ..... -10AN Kit

## Pistol Grip Grease Gun

**ALL14300**

Quality gun has comfort grip handle for easy, one hand operation. Gun accepts a standard 14-oz. grease cartridge, features an air bleeder valve to eliminate air lock, and includes a flexible 12" long hose.



## Grease Gun Tips

Tips reach to grease fittings in tight areas, such as U-joints, and may also be used to grease the ball spline unit on Bert transmissions. The 2" tip replaces the standard end on most guns with 1/8"NPT. Quick release 4" tip includes a small and large sleeve to fit standard couplers. Tips are for hand operated grease guns only.



**ALL14305**..... 2" Grease Gun Tip  
**ALL14306**..... 4" Grease Gun Tip

## Tubing Cutters

Cut plastic, aluminum, copper, or steel tubing without distorting or crushing. Standard cutter works with tubing from 1/8" up to 1-1/8" and has wide rollers for even tracking of cutter wheel, built-in reamer for cleaning inside of tubing, and an extra cutting wheel. Mini cutter can cut tubing from 1/8" to 5/8" in tight areas.



**ALL11010** ..... Mini  
**ALL11011**..... Standard



## Double Flare Tool

### ALL11015

Double flares 3/16", 1/4", 5/16", 3/8", and 1/2" steel or aluminum and .040" copper tubing at 45°, the most common flare used in custom brake and fuel lines. Includes detailed instructions and a convenient plastic storage case.



## Brake Pressure Gauge ALL11020

Gauge temporarily replaces the bleeder screw in most aftermarket brake calipers with 1/4"-28 thread bleeder screws to measure brake pressure. Swivel head positions the 2-3/4" diameter gauge for easy viewing. Convenient remote bleeder can be used to evacuate air in the system for accurate readings.



### Related Component

**ALL11022** ..... Adapter converts ALL11020 and other gauges with 1/4"-28 thread to M10-1.50 thread for use with popular GM Metric calipers.



## Brake Pressure Gauge Kit

### ALL11026

Brake pressure gauge kit includes two gauges, allowing one gauge to be used in the front and one in the rear brake system. Compare front to rear pressures to help diagnose problems or to preset your brake bias. Gauges easily replace 1/4"-28 brake bleeders which are commonly found in most aftermarket calipers.



## Hard Brake Line Display Rack

### ALL052

Display, organize, and inventory many lengths of 3/16" steel brake line. Rack measures 17" wide, and has 21 slots which hold 6 pieces each. Pre-punched mounting holes provide easy mounting on wall or display structure. Not for use with braided brake lines.



## Brake Bleeder Bottles

Contain the mess of bleeding brakes by capturing fluid in this 16-oz. bottle with a 15" long hose which attaches to most bleeder screws. The removable cap has a built-in fitting to secure the hose during storage to help prevent spills. Choose from a steel lanyard retainer that suspends the bottle from a chassis or suspension component, or a magnet retainer to secure the bottle to a steel object such as a brake drum or rotor during bleeding. ALL11017 has a magnet retainer and a built-in one way check valve for one person brake bleeding.



**ALL11019** ..... Bottle With Lanyard

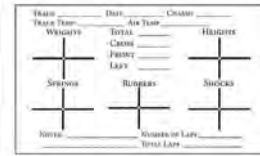
**ALL11018** ..... Bottle With Magnet

**ALL11017** ..... Bottle With Magnet And Check Valve

**ALL99435** .... Replacement Hose

## Circle Track Set-Up Book ALL043

Track important chassis settings with this 4" x 5" pocket size spiral bound book. Each book has 50 carbon-backed pages perforated for easy tear off.



## Transmission Stand

### ALL10174

Avoid damage and fluid leaks during storage and transport of many popular transmissions. Multi-position stand also keeps the transmission level and clean during servicing. An adjustable rear stabilizer bracket can be moved fore and aft as well as vertically to accommodate a variety of transmissions including Bert, Brinn, Muncie, Saginaw, Richmond, and many others. Overall dimensions 11" x 14" x 6".



## Transmission Stand ALL10175

Stand is designed to accept most three- and four-speed GM manual transmissions and also Bert/Brinn style transmissions with modification to rear pad mount.





## Engine Cradles

Engine cradles are available in standard-duty or heavy-duty, both with provisions for mounting wheels, and are made of 1" square tubing with black powder coating. All cradles are for V8 engines, include Grade 5 fasteners and may be easily disassembled for storage. Wheel kits sold separately.



ALL10130

### Standard-Duty

Standard-duty cradles accept wheel kits with 3/8" studs.

- ALL10130** ..... SB and BB Chevy
- ALL10138** ..... GM LS Series
- ALL10145** ..... SB Ford\*
- ALL10147** ..... SB Ford Modular/Coyote
- ALL10150** ..... SB Mopar
- ALL10151** ..... Hemi (5.7 And 6.1)



Standard-Duty Wheel Mount

### Heavy-Duty

Heavy-duty cradles accept wheel kits with 1/2" studs.

- ALL10132** ..... SB and BB Chevy
- ALL10139** ..... GM LS Series
- ALL10142** ..... Oldsmobile
- ALL10144** ..... Pontiac
- ALL10148** ..... SB Ford\*
- ALL10149** ..... SB Ford Modular/Coyote
- ALL10152** ..... SB Mopar
- ALL10154** ..... BB Ford
- ALL10156** ..... BB Mopar†



Heavy-Duty Wheel Mount

\*Works with stock and most aftermarket blocks including Dart, World, and Ford Boss with ribbed engine mount bosses and bulged water jackets.

†Designed for most Mopar B and RB blocks. Will not work with 392 or 426 "hemi" Engines.

## Caster Wheel Kits

Hard rubber wheel kits may be mounted to Allstar engine cradles ALL10130 thru ALL10159. Kits are also available with locking wheels, ideal for storing spare engines in trailer. Standard-duty kits feature 3/8" studs and heavy-duty models use 1/2" studs. Four wheels per kit.

### Standard Duty

- ALL10162** ..... 3" Wheel Kit
- ALL10163** ..... 3" Wheel Kit with Lock

### Heavy Duty

- ALL10164** ..... 3" Wheel Kit
- ALL10165** ..... 3" Wheel Kit with Lock
- ALL10166** ..... 5" Wheel Kit



## SB Chevy Folding Engine Cradle **NEW** ALL10133

Engine cradle conveniently folds down to less than 4" tall for storage under a work bench or in a cabinet when not in use. Designed for use on popular SB Chevy engines weighing up to 500 lbs. Sturdy base is powder coated and includes mounting hardware. Cradle does not have provisions for adding wheel casters.



## SB/BB Chevy Economy Engine Cradle

### ALL10171

Cradle is great for storing or transporting engines safely. Designed to fit small and big block Chevrolet engines, cradle is fully welded from 1" square tubing and powder coated black. Cradle has provisions for mounting our standard duty wheel kits with 3/8" wheel studs.



## GM LS Economy Engine Cradle

### ALL10173

Cradle is great for storing or transporting engines safely. Designed to fit most GM LS series engines, cradle is fully welded from 1" square tubing and powder coated black. Cradle has provisions for mounting our standard duty wheel kits with 3/8" wheel studs.



## SB/BB Chevy Engine Cradle

### ALL10172

A quality cradle for small block and big block Chevrolet engines. Casters included.



## SB Chevy 2-Piece Engine Stand ALL10157

2-piece engine stand constructed from 1" x 2" steel tubing is specially designed to clear most oversized dry sump oil pans with up to a 9" deep sump. Stand includes six 3/8" x 1" grade 5 bolts and accepts wheel kits with 3/8" studs.



## Sprint Engine Cradle

### ALL10159

Cradle bolts to most stock type and aftermarket SB Chevy blocks, including narrow pattern lightweight and standard bellhousing bolt patterns. Slotted front mounts accept most frame width engine mounts. Provisions for standard wheel kits are positioned to support complete engines with attached radiators.







### Engine Lift Plate **ALL10123**

Ease engine swaps with the Allstar engine lift plate. Bolts to manifold in place of carburetor. Yellow zinc-coated plate fits standard Holley 4150/4160 and 4500 Dominator, Rochester Quadrajet, Carter, Motorcraft, Edelbrock, Edelbrock Q-Jet, and Carter AFB carburetors.



### All-in-One Engine Lift Plate

#### **ALL10137**

Engine Plate has provisions to fit all LS GM engine blocks and most Holley 4150/4160 and 4500 series, Rochester Quadrajet, Edelbrock, and Carter AFB Carburetors. Plate features three lifting points for various chain positioning which allows engine weight to be balanced or offset. An offset position is especially helpful when angling an engine (with transmission attached) in or out of a vehicle. Constructed of 3/16" thick zinc-plated steel.



### Engine Lift Plates for LS Series GM Engines

Engine plates are designed for lifting LS series GM engines. Installation of lift plate requires removal of the intake manifold and valley cover tray to properly secure lift plate to engine block. Plate features three lifting points, allowing engine weight to be balanced or offset. Offset position is helpful when angling an engine (with transmission attached) in or out of a vehicle. Made from 3/16" thick zinc-plated steel.



ALL10140

**ALL10140** ..... Gen III Engines

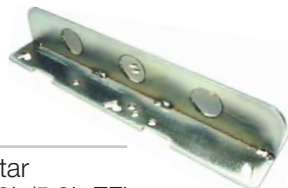
**ALL10143** ..... Gen IV Engines

**ALL10141** ..... Gen V Engines

### Ford EFI Engine

#### Lift Plate **ALL10125**

Ease engine swaps with the Allstar engine lift plate. Fits standard 5.0L/5.8L EFI intakes: OEM, GT-40, Cobra, Holley, Edelbrock.



### Engine Oil Pressure

#### Primer Tank **ALL10535**

Primer tank supplies initial oil to the oil pump in engines equipped with a crank driven oil pump. Fill primer tank with engine oil, then apply compressed air to force the fluid throughout the engine via the oil pressure sender/switch port to pre-lube the entire engine including the oil pump.



### Oil Filter Cutter

#### **ALL10538**

Tool removes the outer shell of most spin-on style engine oil filters to inspect the filter material for contamination or debris.



### Freeze Plug Driver Set **ALL96482**

Have problems installing freeze plugs? Use these plastic drivers along with a hammer or mallet for simple installation without damaging the plugs or the block. Three sizes per set: 1-1/2", 1-5/8", 1-3/4". (Size refers to size of plug)



Product color may vary

#### Individual Drivers

**ALL96483** .... 1-1/2" Driver

**ALL96484** .... 1-5/8" Driver

**ALL96485** .... 1-3/4" Driver

### SB Chevy Cam Bearing Tool **ALL96470**



For installing cam bearings quickly and easily without damage. Shaft is steel; pilot and driver are aluminum.

### LS Main Cap Removal Tool

#### **ALL96525**

Quickly and easily pull main bearing caps off GM LS series V8 engines, especially those with main studs. Hook tool to the bottom of cap, press down on handles, and the balanced leverage pulls the cap out of the block with one swift motion. 26" long x 4" high.



### Rod and Piston Holder

#### **ALL96478**

Holder safely supports piston and connecting rod assemblies during engine teardowns or assembly. Slots are 4-3/4"L x 1-1/2"W to accommodate most combinations. Holder measures 24" x 12" x 9-1/2" tall and can be disassembled for storage.



### Rod Guide Tool **ALL96480**

Plastic tool slips over 3/8" or 7/16" rod bolts to aid piston installation and eliminate the chance of rod bolts hitting crank. A must for any engine builder's toolbox.

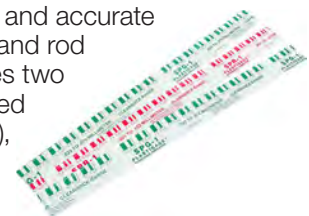


#### Related Component

**ALL96481** .... Rod Guide Tool Extensions 4.5", 1-Pair

### Plastigage® Kit **ALL96475**

Plastigage strings are a simple and accurate way to verify crankshaft, main and rod bearing clearances. Kit includes two green .001" to .003" and one red .002" to .006" (12" long strings), individually packaged inside calibrated sleeves. Detailed instructions are included.



## Valve Spring Compressor **ALL96490**

Adjustable C-clamp style compressor will fit most heads including Hemi. Spring cup will fit stock springs up to 1.750" diameter and has a 1.100" "working window" for access to keepers, which may be too large for some small diameter spring/retainer combinations. Compressor has 9/16" hex for use with a wrench, ratchet, or impact. This tool will handle spring pressures in excess of 1200 lbs. without slipping off.



## Feeler Gauges

Use in engine assembly to check connecting rod side clearance, piston ring end gap, spark plug gap, and valve lash. Gauges have Metric and SAE sizing designations etched in each blade. Choose straight or angled sets.



**ALL96420** .... Straight

**ALL96421** .... Angled

## Valve Lash Wrenches

Allstar valve lash wrenches save precious time and eliminate fumbling with two separate wrenches. Available for Jesel, T&D, and other poly-lock style rocker assemblies.



**ALL96400** .... 7/16" Box Wrench, 1/8" Allen Wrench, Jesel Assemblies

**ALL96401** .... 1/2" Box Wrench, 3/16" Allen Wrench, T&D Assemblies

**ALL96402** .... 9/16" Box Wrench, 3/16" and 7/32" Allen Wrenches

**ALL96403** .... 5/8" Box Wrench, 3/16" and 7/32" Allen Wrenches

## Remote Starter Switch Kit

**ALL76205**

Kit includes a low-profile, steel-cased foot pedal with 8' cord and assorted wire ends to work with many applications. Provides hands-free engine cranking when adjusting valves.



## Remote Starter Button

**ALL76206**

Remote button is helpful when performing valve lash maintenance if the ignition panel can't be reached. Leads are 60" long and come complete with gator clamps to connect to starter solenoid.



## Spark Plug Index Shims

Stackable shims index spark plugs at 30° intervals up to 360° properly positioning ground strap in cylinder head for increased power and clearance between spark plug and piston. Shims are intended for use with 14mm flat seat spark plugs only. Package of 24 shims contains 12 silver 60°, 12 black 90°, detailed instructions, and dial chart.



**ALL96505** .... Shim Kit, Standard O.D. (.800")

**ALL96506** .... Shim Kit, Small O.D. (.720")\*

\*Shims are designed for close tolerance spark plug pockets such as those on ALL-PRO cylinder heads.

## Spark Plug Indexing Tool

**ALL96510**

Indexing positions the ground strap of the spark plug properly for best piston dome clearance and un-shrouds the electrode for a more even burn and possible gains of 5-15 horsepower. Works with flat gasket or taper seat 14mm spark plugs. Includes instructions.



## Spark Plug Gap Tool

**ALL96515**

Used to set consistent plug gap. Insert plug into holder, then put feeler gauge between ground strap and electrode. Gently turn knurled knob until feeler gauge is snug.



## Spark Plug Gap Tool Kit

**ALL96516**

Spark plug gap tool quickly and accurately gaps 14mm threaded spark plugs. Thread spark plug into tool, place the correct size feeler gauge beneath the ground strap, then tighten knob to set plug gap. Includes 17 different feeler gauge sizes .010" thru .035".



## Port and Polish Kit

**ALL11052**

Kit includes an assortment of 60, 80 and 120 grit cartridge rolls for cleaning and modifying intake and exhaust ports to match gaskets, remove casting marks and for smoothing out runners. Two 1/4" mandrels are included with each kit.



## Dykem Layout Fluid **ALL12070**

Apply layout fluid to the work surface to enhance visibility of scribes during fabrication. Blue fluid dries in minutes to a uniform, thin film without cracking or chipping. 4-oz. container has a built-in brush under cap. Not intended for use in set up of ring and pinion gear sets.





## Flywheel Locking Tool SB/BB Chevy ALL96426

Place flywheel locking tool onto rear block dowel pins to prevent the flywheel from turning while tightening or loosening balancer bolts, flywheel bolts, clutch/pressure plate bolts, or cam gear bolts. Locking tool works with 153- or 168-tooth flywheels and explates.



## SB Chevy Crank Socket ALL96424

Steel socket for rotating the crankshaft during engine assembly features a 1" hex and a 1/2" ratchet drive.



## Compression Tester ALL96520

Tester checks cylinder compression from 0 to 300 PSI and features an air-hold valve to reset gauge. One-piece stepped brass end fitting with O-rings fits 14mm and 18mm spark plug threads. Easy-to-read 2-1/2" dial is encased in a metal housing, surrounded by an anti-shock rubber cover. A quick-release coupler connects the included 12" flexible hose to the gauge.



## Pilot Bushing Install Tool ALL26115

Driver simplifies installation of pilot bushings or bearings for manual transmissions including Muncie, Saginaw, Borg Warner, T-10, and many other popular transmissions with .590" pilot shafts.



## Clutch Alignment Tools

Splined, high-impact plastic tools are helpful when aligning the clutch disc on the flywheel for proper insertion of the transmission input shaft.



**ALL14290**..... 1-1/8" Diameter, 10-Spline  
**ALL14292**..... 1-1/8" Diameter, 26-Spline

## Flexible Magnetic Pickup Tool ALL14172

Flexible tool bends to multiple positions, extends up to 24" and has a magnetic end to quickly retrieve parts.



## Telescoping Magnet ALL14173

A strong (3 pound pull), telescoping magnet that will retrieve dropped tools or fasteners. Tool extends over 2', and retracts to just 5" to fit in a shirt pocket.



## Telescoping Mirror ALL14174

A 1-1/4" multi-positional, telescoping mirror for inspecting hard-to-see areas or locating engine oil leaks. Mirror is 6-1/2" long and extends to over 19".



## Caps and Plugs

A must for keeping debris out of lines and hoses. Ideal for keeping internal components of dry sump pumps, fuel pumps, pressure regulators, etc. clean during storage. Caps and plugs fit 37° flared fittings and straight threaded ports. Available in plastic and aluminum.



Cap	Plug	AN Size	Thread Size	No. Per Pkg.
<b>Plastic Caps and Plugs</b>				
<b>ALL50801</b>	<b>ALL50811</b>	-3	3/8"-24	20
<b>ALL50802</b>	<b>ALL50812</b>	-4	7/16"-20	20
<b>ALL50803</b>	<b>ALL50813</b>	-6	9/16"-18	20
<b>ALL50804</b>	<b>ALL50814</b>	-8	3/4"-16	20
<b>ALL50805</b>	<b>ALL50815</b>	-10	7/8"-14	10
<b>ALL50806</b>	<b>ALL50816</b>	-12	1-1/16"-12	10
<b>ALL50807</b>	<b>ALL50817</b>	-16	1-5/16"-12	10
<b>ALL50808</b>	<b>ALL50818</b>	-20	1-5/8"-12	5
<b>Aluminum Caps and Plugs</b>				
<b>ALL50821</b>	<b>ALL50831</b>	-3	3/8"-24	20
<b>ALL50822</b>	<b>ALL50832</b>	-4	7/16"-20	20
<b>ALL50823</b>	<b>ALL50833</b>	-6	9/16"-18	20
<b>ALL50824</b>	<b>ALL50834</b>	-8	3/4"-16	20
<b>ALL50825</b>	<b>ALL50835</b>	-10	7/8"-14	10
<b>ALL50826</b>	<b>ALL50836</b>	-12	1-1/16"-12	10
<b>ALL50827</b>	<b>ALL50837</b>	-16	1-5/16"-12	10

## Cap and Plug Kits



Kits include five of each size, 3AN to 16AN.

**ALL50800** .... Plastic Cap Kit

**ALL50810** .... Plastic Plug Kit

**ALL50820** .... Aluminum Cap Kit

**ALL50830** .... Aluminum Plug Kit



## Utility Jugs

5-gallon utility jug features an O-ring sealed cap with a removable 1/2" NPT plug for installing a filler hose and a screw-on style vent with attached lanyard. Square-shaped body measures 9-1/2" x 9-1/2" x 23" tall. Utility jugs include a 12" flexible filler hose with a capped end for a secure seal.



- ALL40120**.....Clear
- ALL40121**.....Red
- ALL40122**.....Blue
- ALL40123**.....Yellow
- ALL40124**.....Glow in the Dark

### Replacement Components

- ALL40126**..... Utility Jug Cap, Black
- ALL40127**..... Utility Jug Cap, Glow-in-the-Dark
- ALL40128**..... Filler Hose
- ALL40129** .... Vent Cap

## Utility Jug Filler Hose **ALL40128** **NEW**

Filler hose threads into the cap of most utility jugs to eliminate spills. 12" long flexible hose assembly includes a 3/4" NPT threaded fitting and a capped end for a secure seal.



## Funnels

Heavy-duty plastic funnels are perfect for topping off fuel or other liquids. Available in several sizes.

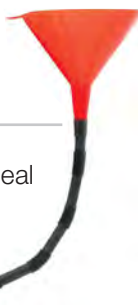


- ALL40100** .... 6-Qt. Funnel with Brass Screen
- ALL40102**..... 2-Qt. Funnel with Brass Screen
- ALL40104** .... 1-Pint Funnel with Brass Screen

## Funnel with Flexible Extension

### **ALL40107**

1-Pint funnel with 18" flexible extension works great for filling fluids in hard-to-reach areas, ideal for differentials and manual transmissions. Built-in hang tab allows funnel to be secured to body or frame for hands-free filling.



## Carb Hats

Carburetor hats are ideal to cover open carbs and prevent debris from falling into the engine while working in garage or pit area while the air cleaner is removed. 2-1/2" tall carb hats are designed to fit most carbs or throttle bodies with a 5-1/8" diameter neck.



- ALL26040** .... Plastic
- ALL26042** .... Plastic with Screen
- ALL26043** .... Aluminum,
- ALL26044** .... Aluminum, with Sealing O-Ring

Note: Hats will not clear choke linkage or shaft on Holley style carbs but will clear choke horn with choke linkage and shaft removed.

## Dominator Carb Hat

### **ALL26041**

Plastic carb hat is 2-3/8" tall and fits over the 7-1/4" air cleaner opening of Holley Dominator carburetors to prevent water or debris from entering the engine. Solid cover may be drilled when an air cleaner stud is used.



## Carb Stand **ALL26200**

Aluminum stand simplifies carb maintenance and will hold carb off of workbench surface. Works with Edelbrock, Quadrajet, and Holley 2- and 4-barrel carbs (except 4500 series).



## Tool Tray

### **ALL14170**

Tool tray measures 12" x 18" x 3", with hooks on one side to fasten to race car nose or sprint-front wing and 6" stands on the opposite side so tray will sit level. Tray has 16 holes for spark plug and nozzle holder use.



## Engine Lift Handles

### **ALL10136**

Aluminum handles are 4" long and will thread into most engine blocks or cylinder heads with 3/8"-16 coarse thread holes for easier lifting. Package of 4.





## Wheelie Bar Wrenches

Billet aluminum wrench is the perfect tool for adjusting wheelie bar height. A highly visible scale printed directly onto the wrench helps to quickly measure height between 2" to 7" in 1/8" increments. Overall wrench length 9" x 3/8" thick.

- ALL11195** ..... Wrench for 3/4" Jam Nut
- ALL11196** ..... Wrench for 15/16" Jam Nut
- ALL11197** ..... Wrench for 1" Jam Nut



## Nitrous Combination Wrench **ALL11151**

4-in-1 wrench has four different sizes to accommodate -3AN, -4AN, and -6AN line fittings, and 1-1/4" bottle fitting. Compact enough to fit in your pocket or glove box for quick bottle changes or to check lines at the track.



## Aluminum AN Fitting Wrench Set

### **ALL11100**

Five-piece, aluminum wrench set for use with aluminum AN-style, braided hose fittings manufactured by Aeroquip, Earl's, etc. Sizes included are -6AN, -8AN, -10AN, -12AN, and -16AN. Each wrench is finished in different color anodizing for easy identification. Also sold each.



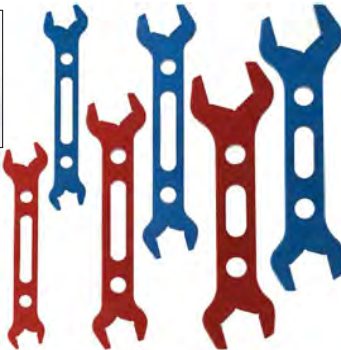
### Individual Wrenches

- ALL11106** ..... -6AN
- ALL11108** ..... -8AN
- ALL11110** ..... -10AN
- ALL11112** ..... -12AN
- ALL11116** ..... -16AN
- ALL11118\*** ..... -20AN

\*-20AN wrench not included in set.

## Double-Ended Aluminum AN Fitting Wrench Set **ALL11120**

Wrenches make quick work of checking both halves of a fitting when the line is installed on the car. Won't mar fittings like steel wrenches. Wrenches are also sold individually.



### Individual Double-Ended Wrenches

AN Size	Hose Wrenches (Red)	Fitting Wrenches (Blue)
-4, -6	<b>ALL11124</b>	<b>ALL11126</b>
-8, -10	<b>ALL11128</b>	<b>ALL11130</b>
-12, -16	<b>ALL11132</b>	<b>ALL11134</b>

## Adjustable Aluminum Fitting Wrenches

Eliminate the guesswork of which wrench is needed to tighten, remove, or check steel braided hose fittings. Aluminum wrenches prevent damage to fittings and are available in two sizes: 8" for fittings up to a -10AN, and 10" for fittings up to -20AN.



- ALL11152** ..... 8"
- ALL11153** ..... 10"

## Drum/Barrel Pump **ALL40114**

Hand-siphon drum pump dispenses or transfers low viscosity fluids from a 55-gallon drum. Self-priming bulb delivers up to 5 gallons per minute. Compatible with gasoline, methanol, and nitro methane.



## Drum Pump Kit for Utility Jugs

Easily transfer low-viscosity fluids from most popular utility jugs without lifting a heavy jug by converting jug into a hand pump unit. Kit includes a cap and hand pump to replace the original utility jug cap. Individual cap may be purchased separately when using an existing pump. Pump siphon tube will need to be cut to length depending on the size of jug used.



- ALL40116** ..... Kit for Use with Allstar, Scribner Jugs
- ALL40117** ..... Kit for Use with VP Jug
- ALL40118** ..... Cap Only for Use with Allstar, Scribner Jugs
- ALL40119** ..... Cap Only for Use with VP Jug

## Carb Drain/Primer Bottle

### **ALL40091**

Durable plastic 8-oz. squeeze bottle is ideal to assist draining and priming carburetors when making jet changes. Cap has an angled filler tube with a tapered tip that fits easily into the vent tube of the carburetor to refill fuel bowl.



### Primer Bottle **ALL40090**

Durable plastic squeeze bottle is ideal for priming alcohol engines. Cap has an angled filler tube, with tapered tip that easily fits into the vent tube of carburetor fuel bowl. 16-oz. capacity.



## Steel Twelve-Point AN Wrenches

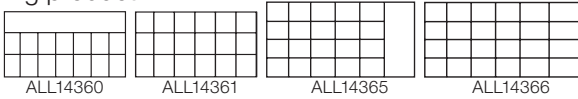
Steel twelve-point AN wrenches with rubber coated handles are commonly used in tight areas such as tightening hose ends on dry sump oil pumps or fuel lines.

- ALL11178** ..... -8AN
- ALL11179** ..... -10AN
- ALL11180** ..... -12AN
- ALL11181** ..... -16AN



## Storage Cases

These handy storage cases help organize many items around the shop, trailer, or home such as electrical connectors, quick turn fasteners, tire groover and siper blades, small screws, fasteners, and many more items. Curved bottom compartments create a smooth scoop, making it easy to remove the smallest of items. Molded-in dividers prevent items from slipping under dividers and accidentally mixing product.



- ALL14360**..... Plastic, 15 Compartment, 11" x 7" x 1-3/4"
- ALL14361**..... Plastic, 18 Compartment, 11" x 7" x 1-3/4"
- ALL14365**..... Metal, 21 Compartment, 9-1/2" x 13-1/2" x 2"
- ALL14366**..... Metal, 24 Compartment, 9-1/2" x 13-1/2" x 2"

## Test Light **ALL76215**

Quickly diagnose electrical problems by testing for current in electrical circuits, relays, switches, or fuses. Handheld test light has a 36" lead wire with an insulated clip which fastens to a common ground and a sharp piercing point to probe insulated wire or terminals. Indicator light illuminates identifying powered circuits in 6-12V systems.



## Weather Pack Terminal Tool

**ALL76264**

Tool removes male and female pin terminals from Weather Pack connectors without damage.



## Weather Pack Pliers **ALL76221**

Weather Pack pliers will crimp most popular 10-22 gauge non-insulated terminals. 8" overall length.



## Impact Crimper **ALL76135**

Excellent for permanently crimping standard cable ends to battery cables.



## Wire and Cable Cutters **ALL11003**

Capable of cutting copper stranded wire from 20-gauge primary wire to 1/0-gauge battery cable. These specially designed cutters will not atten wire during cutting, which is helpful when installing connectors and building battery cables. Cutters are not designed to cut steel wire.



## Ratcheting Crimp Pliers

**ALL76220**

Perform professional-quality crimps on most standard electrical connectors. Pliers include jaws for 22-18, 16-14, and 12-10 gauge connectors and are easily compressed with help from the ratcheting mechanism which releases when connector is fully crimped.



## Nylon Tie Wraps

Secure electrical wiring, gauge lines, and roll bar padding. 100 per bag.



### Black

- ALL14120** ..... 3-1/2"
- ALL14122** ..... 5"
- ALL14123** ..... 7"
- ALL14124** ..... 11"
- ALL14125** ..... 14"

### Natural

- ALL14130** ..... 3-1/2"
- ALL14132** ..... 5"
- ALL14133** ..... 7"
- ALL14134** ..... 11"
- ALL14135** ..... 14"

### Red

- ALL14126** ..... 7"
- ALL14127** ..... 14"

### Blue

- ALL14128** ..... 7"
- ALL14129** ..... 14"

### Yellow

- ALL14136** ..... 7"
- ALL14137** ..... 14"

### Purple

- ALL14138** ..... 7"
- ALL14139** ..... 14"

## Heavy-Duty Nylon Tie Wraps

Heavy-duty black nylon ties are ideal for emergency repairs and applications that require a secure attachment.



- ALL14380** ..... 8", 25-Pack
- ALL14381** ..... 14", 25-Pack
- ALL14383** ..... 21", 10-Pack
- ALL14385** ..... 36", 10-Pack



## Nylon Flush-Fit Tie Wraps

Flush- t design ties have the excess portion of the tie exit in the same direction as the original tie, helping to eliminate the left-on protruding sharp portion found in standard ties. Package of 100.



- ALL14395** ..... 8"
- ALL14396** ..... 11"

## Nylon Tie Wraps with Mounting Holes

Built-in tab with mounting hole to easily secure wiring harnesses, hoses, or cables to a panel with rivets or other fasteners. Package of 25.



- ALL14390** ..... 8" with 3/16" Mounting Hole
- ALL14391** ..... 11" with 3/16" Mounting Hole
- ALL14392** ..... 14" with 1/4" Mounting Hole

## Tie Wrap Tool **ALL11005**

Tired of cuts from nylon tie wraps that have been trimmed with standard wire cutters? This tool does a great job of drawing nylon ties tight around bundles of wires or cables in tight areas and easily cuts flush with a twist of the wrist. ABS constructed tool has steel cutting blades and works with common size nylon wire ties.



## Tie Wrap Mounting Bases

Self-adhesive mounting bases provide a location for attaching standard tie wraps to secure wiring, cables and hoses. Bases mount to clean at surfaces and accept 75# and smaller wire ties. Package of 10.

- ALL14116** ..... 3/4" x 3/4"
- ALL14117** ..... 1-1/8" x 1-1/8"







## Radiator Fin Tool Kit

**ALL10680**

Handheld tool straightens and repairs damaged fins in most radiators, coolers, and air conditioning condensers. Repairing damaged fins provides better airflow through core increasing cooling ability. Six interchangeable heads: 13, 15, 16, 17, 18, and 20 fins per inch.



## Nitrile Gloves

Nitrile gloves protect against dirt and grime and help prevent oil and harsh chemicals from contacting the skin. Chemical-resistant gloves work well for general purpose as well as jobs that involve oil, fuel, brake fluid, and most cleaning chemicals such as brake and carb cleaners. Package of 100.



- ALL12024** ..... Medium
- ALL12025** ..... Large
- ALL12026** ..... X-Large
- ALL12027** ..... XX-Large

## Blower Fan **ALL30002**

Compact 115V, 2.3-amp plastic blower moves up to 300 CFM of air. The quiet electric blower can be adjusted to move cooling air wherever it's needed, up to 30 ft. away. Weighs just 8 lbs. with two built-in receptacles and a 12' long power cord.



## Work Gloves

General purpose gloves protect hands from everyday abuse in the shop or at the racetrack. Lightweight, elastic-weave material with reinforced palm and fingers allows mobility and unrestricted use.



- ALL99940** .... Medium
- ALL99941** .... Large
- ALL99942** .... X-Large

## Wall Mount

### Radiator Holder Kit **ALL12216**

Brackets fasten to trailer wall and hold radiator safely in place during transport to avoid damage. Kit includes two 29" long aluminum brackets with adjustment holes at 2" increments and arms to fit radiator cores up to 2-1/4" wide. Adjustable arms are slotted for quick adjustment with included thumbscrew knobs to fit a variety of radiator heights.



## Apron **ALL99962**

Black cloth apron has pockets to keep tools close at hand. Reverse apron to place pockets on the inside when grinding tires. Adjustable strap allows one size to fit all.



## Mud Scraper **ALL44165**



Remove the stickiest mud and clay without damaging paint or decals. Lightweight and 32" long to reach wings, deck lids and undercarriage. Use the convenient hole in end to hang scraper.

## Safety Glasses

**ALL10258**

Comfortable, lightweight, general-purpose safety glasses have a clear wraparound lens for maximum visibility. ANSI-Z87.1 rated.



## Reusable Corded Earplugs

**ALL12000**

Corded earplugs fit instantly without rolling or squeezing. Made of a soft material that cleans up easily in warm, soapy water.



## Pressurized Sprayers

Sprayers are great for applying bulk cleaners, degreasers, solvents, penetrating oils, and other lubricants. Sprayers have a capacity of 32 ounces. Versatile nozzle adjusts from mist to a stream.



- ALL10516** ..... Black
- ALL10518** ..... Chrome



### Racer's Tape

A hundred uses in the shop or at the track, this is true "Racer's Tape".



#### 1" Wide x 90'

**ALL14141** ..... Black

#### 2" Wide x 180'

**ALL14150** ..... Silver

**ALL14151** ..... White

**ALL14152** ..... Red

**ALL14153** ..... Black

**ALL14154** ..... Yellow

**ALL14155** ..... Blue

#### 2" Wide x 180'

**ALL14156** ..... Orange

**ALL14157** ..... Green

**ALL14158** ..... Burgundy

**ALL14159** ..... Purple

**ALL14162** ..... Teal

#### 3" Wide x 180'

**ALL14142** ..... White

**ALL14143** ..... Black

### Gaffer's Tape

Vinyl-coated gaffer's tape has a dull appearance and is much stronger than standard racer tape.

#### 2" Wide x 165'

**ALL14251** .... White

**ALL14252** .... Red

**ALL14253** .... Black

**ALL14254** .... Yellow

**ALL14255** .... Navy Blue



#### 4" Wide x 165'

**ALL14261** .... White

**ALL14263** .... Black

#### 1" Wide x 150'

**ALL14245** ..... Fluorescent Green

**ALL14246** ..... Fluorescent Pink

**ALL14247** ..... Fluorescent Orange

**ALL14248** ..... Fluorescent Yellow

#### 2" Wide x 45'

**ALL14145** ..... Fluorescent Green

**ALL14146** ..... Fluorescent Pink

**ALL14147** ..... Fluorescent Orange

**ALL14148** ..... Fluorescent Yellow



#### 2" Wide x 150'

**ALL14265** .... Fluorescent Green

**ALL14266** ..... Fluorescent Pink

**ALL14267** .... Fluorescent Orange

**ALL14268** .... Fluorescent Yellow



### Non-Skid Tape

Heavy-duty, non-skid tape is long lasting and may be used in the race car, shop, or trailer. Tape will handle temperatures up to 220°F.

**ALL14175** ..... 2" x 10'

**ALL14165** ..... 4" x 10'



### Black and White

#### Checked Tape **ALL14149**

Checked tape has many uses such as signs, displays, race cars, trailers, etc. Rolls are 2" W and 45' L.



### Air Box Tape

Metallized tape has special adhesives to secure and seal panels. Designed specifically for sealing air boxes and other high-heat areas. Rolls are 2" W and 180' L.

**ALL14270** ..... Silver

**ALL14272** ..... Black

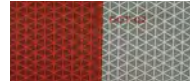


### Re active Tape

Re active tape is weather and solvent resistant for outdoor use on the side and rear of trailers. Can also be used on safety equipment, motorcycles, farm equipment, and large trucks. Material is manufactured with the correct required DOT certification markings. 6" Red/6" White pattern. Rolls are 2" W x 50' L.

**ALL14240** ..... Triangle Pattern

**ALL14242** ..... Diamond Plate Pattern



ALL14240



ALL14242

### Surface Guard Tape

Clear protective polyurethane tape can be applied directly over painted surfaces or decals to help prevent scratching, chipping or other damage. Use on wheel well openings, rocker panels, headlight decals, door edges, or anywhere added protection may be required. Tape is 8 mil thick and provides excellent resistance to ultraviolet light. Will not yellow over time.

**ALL14275** ..... 2" x 30'

**ALL14276** ..... 3" x 30'

**ALL14277** ..... 4" x 30'



### Shipping Tape

Seal shipping boxes and boxes of spare parts.

**ALL14160** ..... Clear 2" x 330' Roll

**ALL14161** ..... Tan 2" x 330' Roll



### Tape Gun **ALL14163**

Use with shipping tape.



TOOLS & PIT EQUIPMENT

## Masking Tape

Premium masking tape is ideal for protecting areas when priming and painting. Waterproof backing is suitable for wet sanding and works with baking cycles up to 230° for 60 minutes. UV resistant.

- ALL14235** ..... 3/4"
- ALL14236** ..... 1-1/2"
- ALL14237** ..... 2"



ALL14236

## Electrical Tape ALL14280

Protect electrical connections and secure wires. 3/4" x 60' roll. UL approved.



## Thread Sealant Tape ALL14282

PTFE tape seals threads on pipe connections. 1/2" x 21' roll.



## Silicone Repair Tape

**ALL14285**  
Tape is a self-fusing silicone with many uses including sealing plumbing and hoses, insulation of wiring from up to 500°F of heat, sealing electrical connections, and provides extra grip on steering wheels and tool handles. Resists fuels, oils, and solvents, and will not gum up or stick like most other tapes. Roll is 1" wide x 10' long x 20 mil thick.



## Double-Sided Tape ALL14288

Double-sided tape is a suitable alternative for attaching panels or trim when standard mechanical fasteners are not an option. Tape is ideal for mounting items on trailer walls or attaching aluminum panels in enclosed trailers. Roll is 3/4"W x 15' L.



## Cleaning Wipes

Disposable wipes are great for cleaning hands when washing is not an option. Perfect for use after fueling vehicles, making roadside repairs, or even as a pre-clean to remove stubborn grease. Durable textured wipes are pre-moistened, citrus scented, and enriched with aloe and vitamin E to deep clean and promote soft skin. Resealable package prevents product from drying out.

- ALL12016** ..... 30 Ct. Pop-Up Dispenser
- ALL12017** ..... 60 Ct. Pop-Up Dispenser



## Scott Rags ALL12005

Multi-purpose cloth-like disposable towels are perfect for shop and trailer. 10" x 12" towels are packaged in a 200 ct. box with pop-up dispenser. Mount to shop or trailer wall with ALL12220 holder.



## Rags-in-a-Box Holder

### ALL12220

Keep your work bench clean and your towels within easy reach! White powder-coated steel holder fastens to your shop or trailer wall to keep your boxed shop towels up and out of the way. Works with most popular boxed towels measuring 9-1/2" x 9-1/2".



## Shop Towels ALL12006

Blue shop towels are much heavier than standard paper towels and work great for numerous tasks around the shop or track. Rolls contain 60 individually perforated 11" x 9-1/2" disposable sheets.



## Shop Towel Roll Holder

### ALL12219

Aluminum shop towel holder is 11" wide to hold most standard size towel rolls. Two lip-over clips hold the towel rod in place for easy roll replacement and a weighted plate helps keep towels from unrolling when mounted to trailer or shop wall.



## Towels

Soft, absorbent terry cloth towels can be used for polishing, wiping up spills, or general detailing. Shop towels belong with every tool box as well as in the shop, garage or trailer.



- ALL12010** ..... Red Shop Towels, 25-Pack
- ALL12011** ..... White Shop Towels, 25-Pack
- ALL12012** ..... White Terry Towels, 12-Pack

## Micro ber Towels ALL12008

12" x 12" terry micro ber towels are great for polishing, cleaning and many other uses around the shop or when detailing a vehicle. Different color towels keep jobs separated, and help eliminate cross contamination between various polishes or cleaners. Package of 3.







### Cordless Drill Holders

Secure to shop wall or trailer to keep frequently used cordless drills quick at hand! Holder is 6-1/2" wide and available in white or black.



**ALL12202**..... White  
**ALL12203**..... Black

### Push Broom Holder

**ALL12204**

Stop tripping over the push broom! Handy bracket mounts to the shop or trailer wall to keep push brooms up off the floor. 9" wide steel bracket holds most standard push brooms or squeegees.



### Sprint Car Nose Wing Wall Mount Brackets **ALL12214**

Brackets attach to the side of trailer wall to hold a spare sprint car front nose wing safely in place. Powder-coated aluminum brackets feature slotted arms which are fully adjustable to accommodate a variety of nose wing shapes and sizes. Sold in pairs with retention straps to keep wing secure.



### Wheel Cover Holder

**ALL12205**

Aluminum holder fastens to trailer or shop wall to keep most wheel covers for 15" wheels within easy reach and organized. Holder is 3-1/2" deep end pre-drilled for mounting.



### Aerosol Can Holders

Bolt to trailer or garage wall to hold cans up to 3" in diameter. Sturdy steel construction is pre-painted white.



**ALL12200**..... Six Can Holder, 23" Long x 3-1/2" Deep x 5-1/2" Tall

**ALL12201**..... Three Can Holder, 11-1/2" Long x 3-1/2" Deep x 5-1/2" Tall

### Aerosol Can Tray

**ALL12264**

Bolt aluminum can tray in multiple locations of shop or trailer walls to keep frequently used chemicals neatly organized and quickly accessible. Tray measures 16" long x 3-1/2" deep with a 2-1/4" tall front lip.



### Oil Bottle Trays

Trays mount to shop or trailer wall and measure 4-1/2" deep making them perfectly sized to hold most quart oil containers. Trays are fabricated from 1/8" thick aluminum and feature a white powder-coated finish.



ALL12265

**ALL12265**..... 16" Long Tray

**ALL12268**..... 21" Long Tray



### Absorbent Mats

A must for the workshop and trailer. These handy absorbent mats have bonded layers, allowing fluid to spread quickly through material.



**15" x 60" Rolls (Perforated Every 10")**

**ALL12030**..... Universal for All Fluid Types (Oil, Coolant, Water)

**ALL12031**..... Oil Only

**100-Pack (15" x 10" Individual Sheets)**

**ALL12032**..... Universal for All Fluid Types (Oil, Coolant, Water)

**ALL12033**..... Oil Only

### Multi-Purpose

**Absorbent **ALL12035****

Organic material is a dust-free alternative when cleaning up spills. Sprinkle product on spills and sweep up. 5-lb. resealable bag.



TOOLS & PIT EQUIPMENT

## Ratcheting Tie-Down Straps

Tie-downs are great for securing vehicles and pit equipment during transport. 2" x 8' long straps have heavy-duty plated hardware and a ratchet designed to hold excess strap material as it is pulled through and wrapped up during tightening. ALL10196 has a built-in axle strap with protective sleeve for wrapping around a rear end housing or chassis and then back to itself. The working load limit is the maximum load a strap should be subjected to during normal use.

Part No.	Width	Length	Hook Type	Working Load Limit
ALL10184	2"	8'	Flat	1,660 lbs.
ALL10188	2"	8'	Direct	1,660 lbs.
ALL10192	2"	8'	Twist	1,660 lbs.
ALL10196	2"	8'	Twist	1,660 lbs.



Flat Hook



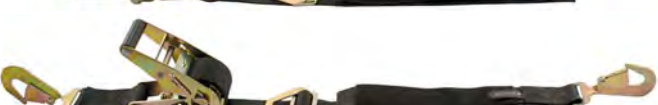
Direct Hook



Twist Hook

## Race Car Tie-Down Package ALL10209

Includes two ALL10196 axle combo ratchet straps and two ALL10200 axle tie back straps. Enough tie-downs to secure a car to any trailer.



## Axle Straps

Axle straps or winch straps work great for wrapping around the chassis or axle tubes when securing a vehicle to the trailer or when winching a vehicle. Adjustable protective sleeve can be positioned as needed to help prevent strap damage from sharp edges. The working load limit is the maximum load a strap should be subjected to during normal use.

Part No.	Width	Length	Hook Type	Working Load Limit
ALL10200	2"	24"-40" Adj.	Twist	1,660 lbs.
ALL10203	2"	21"	Delta Ring	3,300 lbs.
ALL10204	2"	21"	D-Ring	1,660 lbs.
ALL10207	2"	33"	Delta Ring	3,300 lbs.
ALL10208	2"	33"	D-Ring	1,660 lbs.



## Chassis Tie-Down Brackets

### ALL60075

Steel brackets weld to chassis and provide a secure mounting location to hook a tie-down strap or winch cable. Set of 2.



## Recessed D-Ring

### ALL10210

Heavy-duty recessed D-Ring.



## D-Ring Backing Plate

### ALL60074

Backing plate strengthens and reinforces the mounting area of Allstar recessed D-rings. Plate may also be used as a template when installing D-rings and is bare steel, allowing plate to be welded in place. 1/4" thick.



## Ratchet Straps



Secure extra equipment in the trailer with these 1" wide straps made of heavy-duty nylon webbing. Easy, one-hand operation. Ratchet straps have a 1,000-lb. rating.

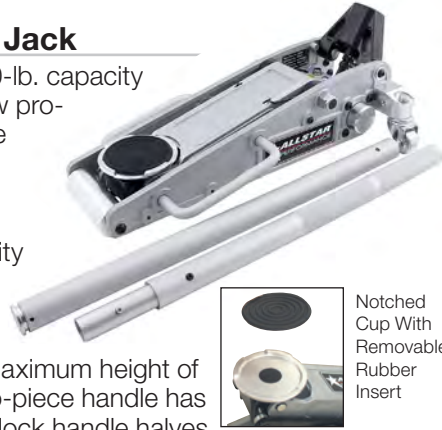
ALL10180 ..... Standard 8' Length

ALL10182 ..... Heavy-Duty 16' Length



## Aluminum Pit Jack

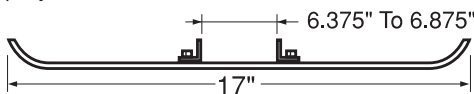
Lightweight, 3,000-lb. capacity floor jack has a low profile to roll under the lowest slung race chassis with a 3-5/8" pad height. Made of high-quality aluminum, jack incorporates a patented hydraulic system to reach maximum height of 17-1/2". Large, two-piece handle has a spring detent to lock handle halves together. Built-in stops on the jack prevent the handle from falling forward past the 12 o'clock position. Rolls easily on heavy-duty rear caster wheels. Optional dirt wing adapts jack for use in unpaved pits. 3-Pump and 6-Pump refers to the amount of pumps of the handle to lift the tires off the ground of a typical stock car.



**ALL10422**..... 3-Pump, Red  
**ALL10425**..... 6-Pump, Silver

## Dirt Wing for Pit Jack **ALL10426**

Provides a sturdy base when using the pit jack on a dirt surface.



## Jack Stands

**ALL10124**

Jack stands with unitized frame will support three tons. The ratchet locking mechanism assures safe, positive height control. Adjustable from 12-1/2" to 17-1/2". Sold in pairs.



## Stack Stands

Steel support stands can be stacked together to conserve valuable space in the trailer or shop. Stands are rated up to 3000lbs each and feature a sturdy 12" x 15" base. Sold in pairs.



**ALL10253**..... 11" Tall **NEW**  
**ALL10254**..... 14" Tall

## Stack Stand Pads **ALL10256**

Steel reinforced rubber pads bolt to the top of our Stack Stands to help eliminate vehicle movement when located on stands. Pads measure 8-1/2" W x 3/4" H wide and include two molded-in studs with hardware for easy installation. Drilling is required to Stack Stands for installation. Sold in pairs.



## Pit Cart Chassis **ALL10600**

Universal kit is a good starting point for building your own custom pit cart. Welding is required and the kit includes all the necessary components to get you off the ground with a rolling platform. Includes a pre-welded front cross member, spindles, steering components, 1" x 2" steel frame tubing with main rails drilled for rear axle, pre-welded rear axle assembly, wheels, tires, and a handle. Frame width is designed to be 14" and a maximum frame length of 60" with a 53" wheel-base. Frame may be shortened as needed.



## Track Mat

High-density foam rubber mat provides added comfort when kneeling or laying on the ground. Mat is oil resistant and can be easily washed without absorbing water.

**ALL10610**..... 20" x 30"  
**ALL10612**..... 28" x 45"



## Folding Track Mat **ALL10126**

Mat folds for easy storage and are ideal for use on asphalt, dirt, in the pits, or on the garage floor. Vinyl covered pad measures 52" x 24" unfolded, 12" x 24" folded.



## Moving Blanket

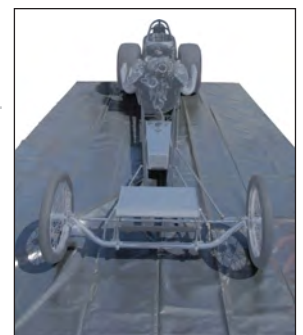
**ALL12013**

All-purpose padded moving blanket is an ideal ground cover at the track, fender/seat cover, or moving/storage pad. Quilted with bound edges. 72"x 80".



## Pit Mat **ALL10605**

Large 10' x 20' black pit mat is made from heavy-duty 18-oz. vinyl and includes securing grommets.







## Air Jack Kits with Dirt Foot

The air jack system fastens directly to your chassis and uses air pressure supplied by a nitrogen tank to raise your entire car in seconds! Kits include air jack cylinders with a 15.25" stroke length, cylinder mounting rings, air coupling with receiver, installation kit, safety stands, and detailed instructions. Lift cylinders feature a large 5" diameter base designed for use in dirt or soft pit areas. Air jack kit for complete car has a lifting capacity of 3000 lbs and kit with two air jack cylinders has a lifting capacity of 1500 lbs.



Dirt Foot

Note: A nitrogen tank, high-pressure regulator, and an air hose rated at a minimum of 400 PSI is required for operation.

- ALL11301** ..... Kit with 4 Lift Cylinders for Complete Car
- ALL11303** ..... Kit with 2 Lift Cylinders for Rear of Car Only

## Air Jack Mounting Rings

Mounting rings secure around the lift cylinders found in the Allstar Air Jack Kits providing a mounting point to secure the lift cylinder to the chassis. The steel mounting rings are 3/4" tall and are direct replacement for the rings included in the Air Jack Kits. The 2-pc aluminum mounting rings are 3/4" tall and feature a 1/2"-13 socket head cap screw recessed into the clamp enabling the mounting ring to be secured to a weight bracket or a chassis tab.



ALL11313

- ALL11319** ..... Steel Mounting Ring Set 8 pcs
- ALL11305** ..... Aluminum Mounting Ring Set 8 pcs
- ALL11313** ..... Aluminum Mounting Ring Each

## Regulator ALL11310

Nitrogen tank regulator is adjustable from 10-500 PSI and is designed for use with the Allstar Performance Air Jack Kits.



## Premium Hose Kit for Air Jack System ALL11312

Premium hose kit includes 35' of 500 PSI hose and fittings to connect air jack systems to ALL11310 regulator.



## Air Jack Kits

The air jack system fastens directly to your chassis and uses air pressure supplied by a nitrogen tank to raise your entire car in seconds! Kits include four air jack cylinders with a 11.75" or 15.25" stroke length, cylinder mounting rings, air coupling with receiver, installation kit, safety stands, and detailed instructions. Air jack kits have a 3000-lb capacity.



Note: A nitrogen tank, high-pressure regulator, and an air hose rated at a minimum of 400 PSI is required for operation.

- ALL11302** ..... Kit with 11.75" Stroke Cylinders
- ALL11300** ..... Kit with 15.25" Stroke Cylinders

## Nitrogen Air Tank Kit ALL10630 **NEW**

A portable nitrogen tank is ideal for making last minute adjustments to shock and tire pressures or raise air jack equipped vehicles. The kit includes a 21" x 5.25" diameter aluminum tank, aluminum bottle stand/handle, adjustable pressure regulator, air hose with a quick disconnect and a transfer filling hose.



Note: Tank is sold empty and will require filling before use.

## Individual/Related Components

- ALL10632** ..... Nitrogen Air Tank 5.25" x 21" Tall 2200 lbs \*
- ALL10633** ..... Nitrogen Air Tank 6.90" x 21" Tall 2200 lbs \*
- ALL10634** ..... Stand/Handle for 5.25" Nitrogen Bottle
- ALL10635** ..... High Pressure Regulator 0-600 psi
- ALL10636** ..... 30" Air Hose with Coupling
- ALL10638** ..... Transfer Fill Hose

\* Tank is sold empty and will require filling before use.

## Air Jack Lance ALL10637 **NEW**

60" long hose assembly connects to a portable nitrogen air tank with regulator to operate air jacks on equipped vehicles. Assembly includes lance with main fill control valve and bleed valve for lowering vehicle.



## Chassis Dollies

Steel chassis dollies allow a car or chassis to be moved around the shop easily and safely. Each dolly measures 30" across the top with high-density rubber pads and a single wheel brake to help prevent rolling. Dollies adjust from 13" to 19" high with a removable 1" block on one side for use on sprint cars with a raised rail chassis. Stands also collapse flat for storage in shop or trailer. Dollies are rated up to 2000 lbs. per set and sold as a pair.



- ALL10625** ..... Standard Dollies
- ALL10626** ..... Black Dollies with Support Tabs\*

\*Dollies feature mounting tabs to mount a custom tie rod (not included) between the dollies for added support.

## Air Hose

3/8" rubber hose with durable outer coating is weather, oil and solvent resistant. Maximum operating pressure is 200 PSI, burst pressure is 800 PSI. Solid brass 1/4"NPT end fittings.

**ALL10526**..... Air Hose 25'

**ALL10527**..... Air Hose 50'



## Nitrogen Bottle Holder

**ALL12210**

Attach to trailer or shop wall to secure 9-1/4" diameter nitrogen bottle in upright position. Heavy steel bracket has a 1-1/2" wide hinged strap that pivots for easy bottle replacements. Overall bracket length is 17-1/2" with mounting holes 16" on center. Set of 2.



## Pit Sockets

The same pit sockets used by many top race teams. Steel sockets have a 1/2" drive to work with most impact guns and a machined lug nut end (not hex), for use with 1" lugnuts.

**ALL10230**..... 2-1/4" Tall, CNC Machined

**ALL10232**..... 3-1/4" Tall, CNC Machined

**ALL10233**..... 3-1/4" Tall, Economy



## Hex Pit Sockets with Extension

Hex style pit sockets with a built-in extension prevent extension and socket from separating during wheel changes.

**3/8" Drive**

**ALL10234**..... 6"

**ALL10235**..... 12"

**1/2" Drive**

**ALL10239**..... 6"

**ALL10240**..... 12"



## Super Sockets with Extension

Pit sockets are available with 5" or 11" extensions and include our Super Socket for fast wheel changes without jamming lug nuts. Sockets are not the traditional hex shape, these feature a unique inner shape to contact the edges of a 1" lug nut and a 1/2" drive for use with impact guns.

**ALL10242**..... 5"

**ALL10241**..... 11"



## Wheel Stud Thread Chaser

**ALL11048**

Designed to clean up damaged threads on wheel studs with 5/8"-11 threads. Thread chaser will not repair threads on bent wheel studs.

Note: We recommend using a lubricant such as WD-40 with thread chaser.



## Economy Quick Spin Lug Wrench **ALL10108**

Lug wrench is a 1" diameter tube with a shallow 1" socket welded to one end and rotating piece of plastic pipe attached to the other. The 10" handles are angled with rubber grips and the overall length is 23".



## Wheel Wrench **ALL10655**

Sprint car wheel wrench features a removable sleeve adapter to fit heavy-duty and light-weight axles. Six-point socket fits 3" axle hex nuts. Black powder-coated aluminum construction.



## Aluminum Air Tanks

Portable lightweight aluminum tanks provide an easy way to air up tires. Welded tanks will not rust or corrode and are pressure tested to military specifications up to 300 PSI. Tanks feature a 125psi pressure relief valve to prevent over filling.

**ALL10531**..... 7" x 10" Horizontal Tank, 1-1/2 Gallon

**ALL10532**..... 7" x 24" Vertical Tank, 2-3/4 Gallon

**ALL10530**..... 9" x 11" Horizontal Tank, 2-3/4 Gallon

**ALL10534**..... 9" x 20" Horizontal Tank, 5 Gallon



ALL10531

ALL10532

## Valve Stem Puller **ALL44032**

Puller threads onto valve stem and properly pulls rubber valve stems into place. Large rubber block protects expensive wheels and creates leverage when pulling.



## Valve Core Tool **ALL44030**

Easily remove and install new valve cores. Base of handle has a machined pattern to aid with grip. Ergonomically designed and crafted from stainless steel. Measures 3" overall length.







### Tire Pressure Gauges

2" gauge has a 12" ex hose with swivel chuck and pressure release valve. Accurate to within +/- 1%.

**ALL44076** .... 0-20 PSI

**ALL44077** .... 0-40 PSI



### Tire Pressure Gauges with Glow-in-the-Dark Face

Tire pressure gauge has a glow-in-the-dark face. Swivel chuck rotates 360° on a 14" long rubber hose for easy placement on valve stems with leak-free operation. A rubber cover surrounds the gauge for added protection against drops and has a ribbed molded pattern for increased grip. Gauge also features a built-in pressure release valve for removing air in small amounts for precise pressure adjustments.



#### 2-1/4" Diameter

**ALL44056** .... 0-15 PSI

**ALL44057** .... 0-30 PSI

**ALL44058** .... 0-60 PSI

#### 4" Diameter

**ALL44046** .... 0-15 PSI

**ALL44047** .... 0-30 PSI

**ALL44048** .... 0-60 PSI

### Tire Gauge Holders

Secure holder to shop or trailer wall to keep tire gauge conveniently located. Aluminum holder works with most tire gauges and has wraparound sides to hold gauge in place.



**ALL12259** ..... Holds Gauges up to 3-1/2" O.D.

**ALL12260** ..... Holds Gauges up to 4" O.D.

### Tire Durometer **ALL44034**

Easily check tire hardness. Includes storage pouch.



### Tire Log Decal

Easy to write on, vinyl decal is handy when recording important tire information at the track. 8-1/2" x 2".



**ALL047** ..... 4-Pack

**ALL047-40** ... 40-Pack

### Stagger Gauge

**ALL10116**

Measures tire diameter and automatically converts it to circumference. Strong tubular gauge will not flex and will provide accurate, consistent stagger measurements every time. Gauge measures from 65" to 115" in 1/4" increments.



### Tire Tape

**ALL10674**

Easily gauge out your tire stagger, the difference in circumference from one tire to the other with the help of this unique tire tape measure. The tape works by first measuring the largest tire and then using this dimension when measuring the smaller tire. The tape does the math for you, the value the larger tire size aligns with is your stagger value or amount of stagger.



### Tire Tape Measures

10' long tapes are ideal for measuring tire diameters and checking stagger.

**ALL10111** ..... Economy

**ALL10112** ..... Deluxe



### Tire Crayons

Ideal for temporary tire marking. 1/2" x 4-5/8".

**ALL12060** ..... White

**ALL12061** ..... Yellow



### Paint Markers

Long-lasting, weather, water, and UV-resistant markers work on glass, plastic, rubber, and metal. Durable fiber tip permits fine or bold lines. Perfect for indicating tire stagger. Quick dry, lead-free paint.

**ALL12050** ..... Silver

**ALL12051** ..... Yellow

**ALL12052** ..... White

**ALL12053** ..... Red

**ALL12054** ..... Blue

**ALL12055** ..... Light Blue

**ALL12056** ..... Black

**ALL12057** ..... Orange

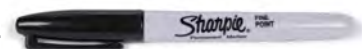


### Sharpie Markers

Fine-point permanent markers work great for many uses around the shop or track which includes layout and fabricating, marking tire sizes, gear set ratios, jet sizes, etc. Sold each.

**ALL12072** ..... Black

**ALL12073** ..... Silver



TOOLS & PIT EQUIPMENT



## Electric Tire Prep Stand

### ALL10565

Electric tire prep stand eases grooving, siping, grinding, and even cleaning of tires. Two-way switch permits clockwise or counter-clockwise rotation. Foot-operated pedal controls the rotation of the tire. A 110V accessory outlet is included for convenient plug-in of siper or groover. Stand will accommodate 5x5 or Wide 5 wheels.



### Individual Components

**ALL10566**..... Wheel Mount/Motor Assembly

**ALL10567**..... Cart/Stand for ALL10566



## Tire Tool Adapter

### ALL10570

Tire tool adapter is designed for use as an accessory to Allstar's electric tire prep stand ALL10565. Adapter arm with cushioned handles slides left and right to allow tire tool access to the entire width of tire. Mounting hardware and tire tool head are included.



### Related Components

**ALL10551**..... Tire Tool Head (Needler)

## Foot Pedal for Standard Tire Prep Stand

### ALL99490

Foot pedal is a replacement for the current ALL10565 Tire Prep Stand and a retro t pedal kit for earlier models with the small design plastic pedal.

Kit includes all wiring and instructions to convert older model tire prep stand to the current design.



## Tire Perforator Tool

### ALL10550

Tire tool perforates tire surface for better traction.

Steel roller is 2" wide with a series of 1/4" tall, straight pin rows. 5" wood handle. Use caution when handling and storing tool; pins are needle sharp.



## High-Torque Electric Tire Prep Stand

### ALL10575

Electric tire prep stand with high-torque motor is a heavy-duty version of Allstar's standard tire prep stand that provides increased reliability and power when servicing tires. Prep stand eases grooving, siping, grinding and even cleaning of tires. Two-way switch permits clockwise or counter clockwise rotation. A foot-operated pedal controls the rotation of the tire. A 110V accessory outlet is included for convenient plug-in of siper or groover. Stand will accommodate 5x5 or Wide 5 wheels.



### Individual Components

**ALL10576**..... Wheel Mount/Motor Assembly

**ALL10577**..... Cart/Stand for ALL10576

### Related Components

**ALL10572**..... Tire Tool Adapter

**ALL10574**..... Tire Wrapper Attachment

**ALL10571**..... Tire Siper Holder



## Tire Tool Adapter for High-Torque Tire Prep Stand

### ALL10572

Tire tool adapter is designed for use as an accessory to Allstar's high-torque electric tire prep stand ALL10575. The adapter's arm features cushioned handles and slides side-to-side, allowing perforator tool access to the entire width of tire.

A retractable leg helps support and stabilize the tire tool adapter and unit. Adapter also has mounting holes to accept the ALL10574 Tire Wrapper Attachment (sold separately) to wrap tires after prepping.



## Tire Wrapper Attachment

### ALL10574

Tire wrapper attachment mounts directly to tool perforator adapter ALL10572 to easily wrap tires after prepping. Attachment accepts tire wrap tubes up to 18" wide with a core I.D. of 3".



### Related Components

**ALL44221** .... Black Stretch Wrap 1500'

**ALL44224** .... Clear Stretch Wrap 1500'



## Tire Prep Stand

### ALL10555

Steel tire prep stand is a must when grooving, siping, grinding, or even cleaning tires. Bolts together, and the pivoting head eases initial tire mount. A locking T-handle secures the head assembly. Can be used with 5x5 or Wide 5 wheels.



## Tire Prep Mount ALL10561

Manual steel tire prep mount eases grooving, siping, grinding, or even cleaning tires. Special one-way bearings prevent "roll back" when grooving or siping. Bolt to a wall stud or other solid surface. Can be used with 5x5 or Wide 5 wheels. ALL10562 wall swivel (sold separately) allows use at various angles.

ALL10562..... Swivel Wall Mount Bracket



## Tire Siper ALL10265

Get more sipes per swipe! 6-blade push or pull style siper quickly and precisely sipe tires for better traction. Unit has adjustable sipe depth. Lightweight sipers use standard utility blades and are constructed for heavy-duty use.



## Heated Tire Siper

### ALL10266

Sipe tires quickly and effortlessly while maintaining precise control. Siping can greatly improve traction by allowing the tire to reach and maintain optimum temperature. A locking lever and blade clamping screw secures up to 13 blades in the head assembly. Blades can be easily positioned up or down to desired cutting depth. A built-in blade rail holds blade strips in place while individual blades are snapped away. Tool heats in 10-15 minutes. 110V plug in operation only.



## Replacement Components

ALL99104 ... Tension Lever Kit

ALL99109 .... Heating Element



## Extra-Hot Tire Siper Heating Element

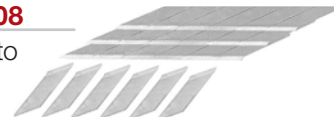
### ALL99111

Element increases the output of the ALL10266 by about 25% over the original heating element which is ideal for siping harder compound tires.



## Siping Blades ALL99108

Siping blades are designed to work in ALL10266 Heated Tire Siper and ALL10540 8-Blade Siping Head. Four strips contain six individual break-away blades that are easily removed or separated using needle nose pliers. Package of 24 blades.



## Multi-Blade Siping Head

### ALL10540

Siping head converts standard two-blade pistol-grip sipers into an eight-blade siper. Head holds up to eight individual break-away style blades that can be adjusted as needed for desired cutting depth. Head works with pistol-grip and other heated sipers that accept a .400" round mandrel. Blades are sold separately.



## Related Component

ALL99108 .... Siping Blades, 24-Pack



Chad Simpson



Jared Spalding

TOOLS & PIT EQUIPMENT



## Backing Pads and Sanding Discs

Backing pads are designed to work with sanders that have a 5/8"-11 arbor. Sanding discs are specific to each backing pad and sold in packs of 5.

### 7" Backing Pad and Sanding Discs

Backing pad is a multi-piece unit that features a hard backing. The sanding disc is secured to the sander along with the backing pad and reinforcing disc with one spanner nut.



- ALL44186**..... 7" Backing Pad
- ALL44187**..... 7" Sanding Discs, 36 Grit, 5 Pack

### 8" Backing Pad and Sanding Discs

Backing pad is a one-piece unit that features a soft foam backing and a molded-in threaded insert to mount directly to the sander. The backing pad accepts hook-and-loop style sanding discs.



- ALL44188**..... 8" Backing Pad
- ALL44189**..... 8" Sanding Discs, 36 Grit, 5 Pack
- ALL44198**..... 8" Sanding Discs, 24 Grit, 5 Pack
- ALL44197**..... 8" Sanding Discs, 16 Grit, 5 Pack

## Tire Grinding Discs



Grind off the hardened outer "skin" on used dirt track tires and create round, aggressive sipes to increase traction. Use caution when handling and storing nail head disc, pins are needle sharp.

Part No.	Description	Diameter	Arbor Hole
<b>ALL44180</b>	Rounded Disc, 23 Grit	4"	5/8"
<b>ALL44181</b>	Flat Disc, 23 Grit	4"	5/8"
<b>ALL44182</b>	Rounded Disc, 16 Grit	7"	7/8"
<b>ALL44183</b>	Nail Head Disc	7"	7/8"
<b>ALL44196</b>	Nail Head Disc	8"	5/8"

**Safety Note:** To prevent bodily injury the tire must be mounted on the car or secured in a tire holder. Eye and hand protection is required.

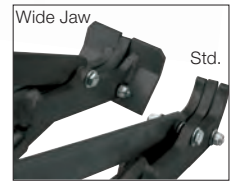
## Bead Breakers

Convenient tool makes quick work of breaking down even the most stubborn tire beads.

Durable steel construction with rubber hand grips. Clamp the hook and inside jaw against the rim, while maintaining slight pressure on the outside handle, then press down on the inside handle, using the outer jaws to separate the tire from the rim, moving around the rim as needed.



ALL44028



Wide Jaw

Std.

- ALL44026** .... Bead Breaker for 10" Wheels
- ALL44027** .... Bead Breaker for 13" Wheels
- ALL10105** ..... Bead Breaker for 15" Wheels
- ALL10106** ..... Bead Breaker for 15" Wheels Wide Jaw\*
- ALL44028** .... Bead Breaker w/ Adjustable Arm for 10", 13", and 15" Wheels

\*Wide jaw bead breaker works well with soft sidewall tires, helping prevent damage to sidewall.

## Tire Spoons

Steel tire spoons help to mount and dismount tires after bead has been broken. Various sizes are available to work with most tire/wheel combinations. Small tool works well to get inside tire during removal while rounded ends help prevent damage to tire and wheel.



ALL10103

ALL10104

ALL44037

ALL44036

- ALL10103** ..... 24" Straight with Round End
- ALL10104** ..... 16" Curved with Flat End
- ALL44037** .... 16" Curved with Round End
- ALL44036** .... 9" Curved with Round End



Ben Watkins





## “All-In-One” Heated Tire Groovers

Self-contained groover has built-in temperature controls, eliminating the additional cord and separate control box common with other groovers. Don't let the small package fool you; this groover has the ability to cut small intricate grooves yet still handle removing material up to 1/2". Tapered, razor-sharp blade grooves fast and easy. To operate, insert a single blade into groover, set blade height with a tire depth gauge, and set the power level. Place the cutting edge against the tire surface and obtain instant heat by simply squeezing the trigger. Groover features a Hi/Low toggle switch and a temperature control dial in the handle for setting desired heat level. “All-In-One” groover requires “All-In-One” blades; do not use standard groover blades with this groover.



ALL10770

**ALL10770** ..... 110V Groover Includes 1 Each 4/32", 5/32", 6/32", 8/32", and 10/32" Flat Blades.

**ALL10772** ..... 220V Groover (Intended for International Use) Power cord requires the attachment of a 220 volt, grounded, 3-prong plug (not included). Includes 1 Each 4/32", 5/32", 6/32", 8/32", and 10/32" Flat Blades.

### Replacement Components (for ALL10770 and ALL10772)

- ALL99300** .... Head Assembly
- ALL99301** .... Head Rebuild Kit
- ALL99302** .... Blade Clamps, 1-Pair
- ALL99303** .... Clamp Nuts, 1-Pair
- ALL99304** .... Clamp Screws, 1-Pair
- ALL99305** .... Cradle Springs, 1-Pair
- ALL99306** .... Slide Pads, 3-Pair
- ALL99307** .... Hex Wrench



ALL99300

ALL99301

ALL99302

ALL99306

## Work Gloves

General-purpose gloves protect hands from everyday abuse in the shop or at the racetrack. Lightweight, elastic-weave material with reinforced palm and fingers allows mobility and unrestricted use.



- ALL99940** .... Medium
- ALL99941** .... Large
- ALL99942** .... X-Large

## Allstar Apron **ALL99962**

Black cloth apron has pockets to keep tools close at hand. Reverse apron to place pockets on the inside when grinding tires. Adjustable strap allows one size to fit all.



## Heated Tire Groovers

Groovers add extra traction in minutes. Tapered, razor-sharp blade grooves fast and easy. To operate, insert a blade into groover, set blade height with a tire depth gauge, and set the power level. Features triggerless activation – simply place the cutting edge against the tire surface and press down for instant heat. Includes 2 each 4/32", 6/32", 8/32", and 10/32" fl t blades.



ALL10260

**ALL10260** ..... 110V Groover Features a 4-level dial and a hi/low switch for 8 total heat settings.

**ALL10590** ..... 220V Groover (Intended for International Use) Features a 4-level dial and a multi-positional dial for re-tuned heat settings. Power cord requires the attachment of a 220-volt, grounded, 3-prong plug (not included).

### Replacement Components (for ALL10260)

- ALL99392** .... Head Assembly
- ALL99393** .... Head Rebuild Kit
- ALL99394** .... Blade Clamps, 1-Pair
- ALL99303** .... Clamp Nuts, 1-Pair
- ALL99304** .... Clamp Screws, 1-Pair
- ALL99305** .... Cradle Springs, 1-Pair
- ALL99306** .... Slide Pads, 3-Pair
- ALL99307** .... Hex Wrench



ALL99392

ALL99393

ALL99394

ALL99306

### Replacement Components (for ALL10270 and ALL10590)

- ALL99104** .... Tension Lever Kit
- ALL99105** .... Head Assembly
- ALL99106** .... Front Pads w/Screws, 3-Pair
- ALL99107** .... Rear Pads w/Screws, 3-Pack
- ALL99127** .... Head Blade Divider



ALL99104

ALL99105

ALL99106

ALL99107

ALL99127

## Storage Tote **ALL059**

Durable storage tote has many uses around the shop or in the trailer. Store extra parts or keep parts from being damaged during storage. Great for organizing ratcheting tie downs, specialty tools, such as tire groover, siper, and related tools. Totes also work well for storing chemicals and fluids to prevent spilling in cabinets. Interlocking lid design allows multiple totes to be securely stacked together. Inside dimensions are 20"L x 14"W x 12"H.



## Dirt Tire Soap **ALL78236**

Clean your tires like the Pros! Simply mix with water and spray on your tires before washing them and the mud almost falls off. Cleaner also works for pre-treating your chassis and body before cleaning to help loosen dirt and clay. 1-gallon container.





## "All-In-One" Groover Blades

Hard-tempered spring steel blades are designed for use with the ALL10770 and ALL10772 "All-In-One" Heated Tire Groovers. Blades are honed to a razor-like finish and have a tapered shape making the blade wider near the top where strength is needed and thinner at the bottom, greatly reducing drag as the blade cuts through the rubber. Blades are sold in packages of 12.

**Note:** All-In-One Groovers must use these All-In-One Blades but these blades can be used in any of our other groovers.



Blade	Size	Flat Bottom Blades	Round Bottom Blades
#1	1/32"	-	ALL10790
#2	2/32"	-	ALL10791
#3	3/32"	ALL10780	ALL10792
#4	4/32"	ALL10781	ALL10793
#5	5/32"	ALL10782	ALL10794
#6	6/32"	ALL10783	ALL10795
#8	8/32"	ALL10784	ALL10796
#10	10/32"	ALL10785	ALL10797
#12	12/32"	ALL10786	ALL10798
#14	14/32"	ALL10787	-
#16	16/32"	ALL10788	-

## Heated Tire Groover Blades

Hard-tempered spring steel blades are designed for use with the ALL10260, ALL10270 and ALL10590 Heated Tire Groovers. Blades are honed to a razor-like finish and have a tapered shape making the blade wider near the top where strength is needed and thinner at the bottom, greatly reducing drag as the blade cuts through the rubber. Blades are sold in packages of 12.

**Note:** Do not use these blades in "ALL-IN-ONE" style groovers!



Blade	Size	Flat Bottom Blades	Round Bottom Blades
#1	1/32"	-	ALL10267
#2	2/32"	-	ALL10268
#3	3/32"	ALL10271	ALL10269
#4	4/32"	ALL10272	ALL10276
#6	6/32"	ALL10273	ALL10277
#8	8/32"	ALL10274	ALL10278
#10	10/32"	ALL10275	ALL10279

## Heavy-Duty Flat-Bottom Grooving Blades

Heavy-duty blades are twice as thick as standard blades for removing large amounts of material with less chance of blade damage. Commonly used in off-road racing. Package of 12.



**Note:** Do not use these blades in "ALL-IN-ONE" style groovers!

- ALL10580..... #16 Flat, 16/32"
- ALL10582..... #20 Flat, 20/32"
- ALL10584..... #24 Flat, 24/32"
- ALL10586..... #32 Flat, 32/32"

## Tire Covers

Canvas cover is ideal for open wheel cars to keep tire out of direct sunlight.

- ALL44255 .... 8" Wheel/Tire
- ALL44256 ... 10" Wheel/Tire **NEW**
- ALL44257 ... 12" Wheel/Tire **NEW**



## Easy Wrap Tire Covers

Cover tires quickly and easily. Elastic bands allow you to stretch the cover over your tires after washing or grinding to keep tires clean.



Description	4-Pack	12-Pack
UMP Modified Tires (85-89" Dia.)	ALL44222	ALL44222-12
Late Model Tires (93-96" Dia.)	ALL44223	ALL44223-12

## Tire Wrap

Tires lose solvents and moisture over time but keeping them covered helps prevent tires from drying out. Wrap also helps contain or reduce the amount of chemicals used during "soaking" by minimizing evaporation. Wrap is 18"W x 1500'L.



- ALL44221 .... Black
- ALL44224 .... Clear

## Tire Stack Cover

ALL44220

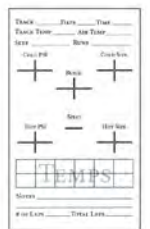
Easy access canvas cover features a full-length zipper. Perfect for use in the tire impound, keeping your tires out of the weather or hiding them from the eyes of your competition. 50" tall black cover will fit a set of 4 tires with a 86" maximum circumference.



## Asphalt Tire Book

ALL041

Keep track of tire settings before and after race. 4" x 5" pocket size book includes 50 carbon-copy pages, perforated for easy tear off.



TOOLS & PIT EQUIPMENT

### Toe Plates

Aluminum plates simplify setting of toe-in and toe-out. Plates rest against outside edges of tires. Using two tape measures (sold separately), measure the distance front and rear, between plates. The difference in tape readings is the toe setting. Deluxe plates have radiused edges, slots for narrow and wide tape measures, and are 9" tall x 23" wide to work with vehicles with smaller wheel openings. Standard plates are 1/2" thick, 11" tall x 32" wide, and work well for vehicles with larger wheels and wheel openings. Set of two plates.



- ALL10117** ..... Standard
- ALL10119** ..... Deluxe

### 16' Tape Measure

**ALL10675**  
16' x 3/4" blade has fractional markings every 1/8" for quick reference.



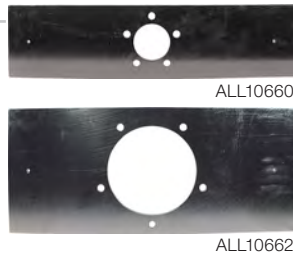
### Caster Plate **ALL10752**

Not sure if you turned your wheels the same amount each time when adjusting caster settings on your race car? Unless you have expensive turn plates, you're never certain, until now. This quick reference gauge positions under the upper ball joint nut, with markings facing up, for easy viewing. Place a mark on the shock body or fabricate an indicator to use as a reference point.



### Set-Up Plates

Set-up plates are used for squaring and stringing chassis to ensure accurate chassis set-up by eliminating wheel and tire differences. Plates are 1/2" thick and can also be used when setting bump steer or checking axle tubes for straightness. Sold each.



- ALL10660**..... 5x5, 7" x 28"
- ALL10662**..... Wide 5, 12" x 28"

### Spindle Slug Tool **ALL11182**

Tool easily removes spindle slugs that are pressed into fabricated spindles with a standard wrench or socket.



### Upper Ball Joint Wrench

**ALL11190**  
Wrench is designed to remove and install common screw-in upper ball joints that are 1.900" wide (ALL56214).



### Suspension Tube Set-Up Tool

**ALL10676**

Slide rule device quickly measures and duplicates suspension or steering tube distances with 1/2", 5/8", and 3/4" rod ends. Set-up tool has an engraved scale with 1/16" increments for durability and accuracy.

### Bolt Center Caps **ALL10678**

Caps slip over the head of standard 1/2" bolts to accurately measure the center-to-center length of installed suspension tube assemblies. Machined step secures the end of a standard tape measure for easy reading of the length to the center of the opposite cap. Caps feature a built-in O-ring that allows the cap to swivel on the bolt head and keeps it from falling off. Package of 2.



### Rod End Centering Kit

**ALL10672**

Compact inserts are placed into rod ends of suspension, steering or other tube assemblies to quickly measure and adjust on the workbench or other flat surface with any standard tape measure. Inserts can be used on assemblies with 1/4", 3/8", 1/2", 5/8", and 3/4" rod ends.



### Ride Height Blocks

Chassis set-up blocks are adjustable in 1/4" increments. A quick-release pin holds block at desired height. Bottom surfaces of blocks are contoured to fit steel tubing or any flat surface and have magnets for holding block to chassis. Short blocks adjust 1.75"-4". Tall blocks adjust 3"-6". Package of 2.



- ALL10720**..... Short
- ALL10721**..... Tall

### Adapters Cups for Ride Height Blocks

**ALL10722**

Adapters replace the standard flat pad on set-up blocks and are machined to cradle axle tubes during chassis set-up. Package of 2.



### Cradle Rollers for Ride Height Blocks **ALL10723**

Built-in rollers allow live axle rear-ends to rotate while on the cradles or when using the rear axle to rotate the engine to check or adjust the valve train. Package of 2.







## Ground Clearance Indicator

**ALL10725**

Determine how close the frame is to the ground on the race track. This unique kit features an aluminum bracket that rivets to the frame with an adjustable 4" plastic wear rod.



### Replacement Component

**ALL10726** ..... Wear Rods, 4-Pack

## Ride Height Set-Up Stick **ALL10658**

Stick replaces the coil-over shock and spring assembly during maintenance. Stick has many uses and may be adjusted to check settings at normal ride height, in race attitude, or on the bump stops to evaluate suspension travel. Adjusts from 15" to 24", measured at the center of 1/2" rod ends.



## Shock Racks

Shock rack holds four shocks with 2-1/2" springs and easily mounts to trailer, shop wall or pit cart. Rack is designed to hold shocks in place by pushing shock rod end or eye over the outer O-ring or alternatively, the outer O-ring may be removed to expose a predrilled hole for a hairpin clip such as ALL18442, sold separately.



**ALL12212** .... Standard Rack

**ALL12211** .... Adjustable Base Rack

### Replacement Component

**ALL12213** .... Shock Pin, O-Ring, and Bolt

## Extended Length Shock Rack Pin

**ALL12215**

Extended length pin replaces the pin used on our standard and adjustable shock racks allowing a shock or eliminator with a 5" spring to be mounted to the rack. Pins are also ideal for creating custom mounting for use on toolboxes or pit carts. The outer O-ring may be removed to expose a predrilled hole for a hairpin clip such as ALL18442, sold separately.



## Shock Eye Socket

**ALL64255**

The ideal tool for shock rebuilders or anyone that disassembles shocks on a regular basis! Unique socket safely removes and installs the shock rod end without risk of damage to the spherical ball. Steel socket contacts the outer housing of 1/2" rod ends up to .640" wide and has a 1/2" drive for ratchet or impact use.



## Shock Workstation

**ALL64264**

The all-in-one shock workstation holds most shock bodies in the upright position for ease of shaft removal or assembly and holds shock shafts vertical or horizontal for easier repairs and re-valving. Aluminum workstation can be placed in a vise, bench mounted using optional mounting bracket, or custom mounted using 1/4" fasteners.



## Shock Workstation Base

**ALL64267**

Steel base is helpful when mounting Allstar workstation (ALL64264) in a trailer or to a shop workbench. Mounting hardware included.



## Shock Inflation Tool

**ALL64260**

Tool threads onto shock Schrader valves. Fill valve and 0-300 PSI gauge head independently rotates a full 360°, for easy filling and reading. Complete with built-in bleeder and includes a protective storage case.



David Stremme



### Bench Yoke **ALL11360**

Bench yoke mounts to a workbench to hold transmissions, rear ends, differentials, and many other items for assembly or servicing. Yoke rotates 360° and features two 10" long pivoting arms that are 1" wide by 1/2" thick. Tool is unpainted so it can be modified as needed.



### Rear End Station Brackets **ALL10178**

Stand adapter brackets fasten to adjustable arms of most engine stands. Supports full size car and light truck rear axle housings when servicing or replacing differential gear sets. Position housing onto arms and secure into place with included retaining straps.



Engine Stand Not Included

### Pinion Centering Jig **ALL68370**

Pinion centering jig fastens to the rear end housing and locates the pinion centerline when building or narrowing housings. Machined slots are designed to retain most tape measure ends for accurate measurements. Applications include GM 12 and 14-Bolt, Dana 44 and 60, Chrysler 8-3/4", and Ford 8.8" and 9" housings.



### Pinion Yoke Wrench **ALL68372**

Wrench fastens to most popular pinion flanges and companion flanges to hold when setting bearing pre-load and tightening retaining bolt or nut. Wrench has provisions to work with 1/2" or 3/4" drive tool. Center hole is 2" to clear most sockets. Universal slotted bolt patterns for 1/4", 5/16", and 3/8" fasteners for most AMC, Dana, Ford, and GM yokes.



### Spindle Nut Sockets

Aluminum hex style spindle nut socket features a 1/2" drive for use with a ratchet.



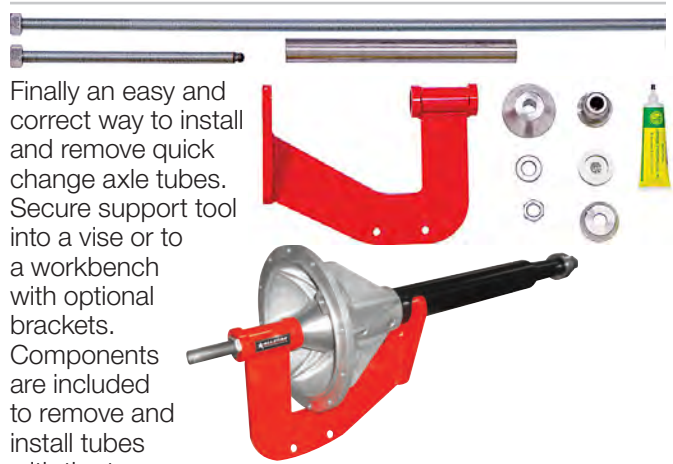
**ALL10110** ..... Socket for 2" Pin Wide 5 and 5x5 Spindle Nuts, 2-3/8"

**ALL10114** ..... Socket for 1-Ton Wide 5 Spindle Nuts, 2-5/8"

**ALL10115** ..... Socket for 2-1/2" Pin 5x5 Spindle Nuts, 2-7/8"

### Quick Change Tube Install/Removal Tool **ALL11350**

Finally an easy and correct way to install and remove quick change axle tubes. Secure support tool into a vise or to a workbench with optional brackets. Components are included to remove and install tubes with the turn of a wrench. An adapter for tubes with Wide 5 or 5 on 5" hubs is also included.



#### Related Components

**ALL11355** ..... Installation End Cap for Bolt-On and 2-7/8" Pin Wide 5 Tubes



ALL11355

**ALL11351** ..... Mounting Bracket Kit for Quick Change Tube Install/Removal Tool



ALL11351

### T-Handle Axle Puller **ALL66115**

All-in-one T-handle puller threads into axle for easy installation or removal. Tool includes adapters to fit 3/8"-16 coarse- or 3/8"-24 fine-thread solid axles, and 3/4"-16 fine-thread gun-drilled axles.



### Extreme Pressure Lube **ALL78246**

Originally used throughout the tool and die industry, this lube provides superior durability and wear protection, taking the place of anti-seize in many applications. Recommended for spline-to-spline contact, threaded adjusters, and engine fasteners. 4-ounce tube.



### Quick Change Oil Plug Socket **ALL11161**

Six-point 1-7/8" socket fits on a 1/2" drive ratchet to remove or install plugs on quick change rear ends. Socket fits plug in Winters Ford 9" housings. Not recommended for high-torque applications.



TOOLS & PIT EQUIPMENT





### Quick Change Gear Case

**ALL14355**

Sturdy composite storage case protects and holds up to 8 sets of quick change gears. Case has molded-in carrying handles and metal hinges. 5" x 8" x 15-1/2" overall when closed.



Gear sets not included

### Quick Change Gear Totes

Durable plastic quick change gear tote organizes extra gear sets and keeps them clean. Lid snaps shut to hold gears in place. 8"L x 5"W x 2"H.



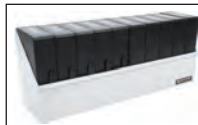
Gear sets not included

Description	Single	10-Pack
White	<b>ALL14350</b>	<b>ALL14350-10</b>
Black	<b>ALL14351</b>	<b>ALL14351-10</b>
Yellow 6-Spline (Midget) Gear Set	<b>ALL14352</b>	<b>ALL14352-10</b>

### Quick Change Gear Tote Tray

**ALL12269**

Neatly organize up to 10 quick change gear tote boxes vertically. Tray is 21" long x 5-1/2" deep with a 4" tall front edge, making them perfectly sized for Allstar gear tote boxes.



### Absorbent Mats

A must for the workshop and trailer. These handy, absorbent mats have bonded layers, allowing fluid to spread quickly through material.



#### 15" x 60" Rolls (Perforated Every 10")

**ALL12030**..... Universal for All Fluid Types (Oil, Coolant, Water)

**ALL12031**..... Oil Only

#### 100-Pack (15" x 10" Individual Sheets)

**ALL12032**..... Universal for All Fluid Types (Oil, Coolant, Water)

**ALL12033**..... Oil Only

### Plastic Drain Pan

**ALL40112**

Round drain pan has molded-in handles and pour spout. 13-1/2" x 11" x 4", 7-qt. capacity.



### Aluminum Quick Change Drain Pan

**ALL14166**

Aluminum drain pan is handy when changing quick change gears. Built-in perforated shelf holds gears and allows lube to drain into pan. Pan is 10-1/4" wide, 12" long, and 3-3/4" deep.



### Quick Change Drain Pan Plastic

**ALL14356**

Tapered top drain pan, combined with an open corner, allow quick change gear changes to happen even faster. Low-profile, 2-piece plastic pan includes a stainless steel filter screen molded into the top tray. 4-qt. capacity.



### Drain Pan with Pump

**ALL14171**

Drain pan with built-in pump holds and recycles fluids when changing rear end gears. Molded plastic basin and lid slide together to prevent spillage of fluid. A crank handle is included for hand operation along with a length of straight hex shaft for use with an electric drill. 16" square x 7" tall. 14-qt. capacity.



Brady Bacon

TOOLS & PIT EQUIPMENT





## Aluminum Shifters

Anodized lightweight shifters include 3/8" rod ends, lock nuts and rods. Rods are tapped for right and left hand 3/8" rod ends.



### Shifters Include:

- One-Lever Shifter** – one 24" shifter rod
- Two-Lever Shifter** – two 24" shifter rods
- Three-Lever Shifter** – one 16" and two 24" shifter rods

- ALL54108**..... One-Lever Shifter
- ALL54120**..... Two-Lever Shifter
- ALL54112**..... Three-Lever Shifter

### Replacement Components

- ALL58006** .... 3/8" RH Male Rod End
- ALL58016** .... 3/8" LH Male Rod End
- ALL99015** .... Rod End Reducer Bushing 3/8" to 1/4"

## Two-Lever Shifter with Lock

**ALL54125**

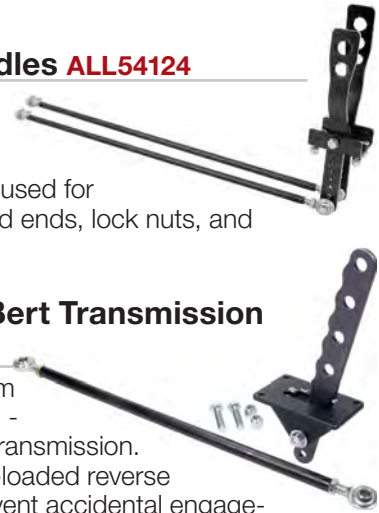
Black anodized shifter has a built-in lock to hold the transmission in gear when track is rough. Shifter includes two 24" long 3/8" shifter rods, 3/8" rod ends, and hardware.



Garrett Alberson

## Two-Lever Shifter with Unequal Handles **ALL54124**

Black anodized aluminum shifter has two unequal length handles. Shorter lever commonly used for reverse. Includes 3/8" rod ends, lock nuts, and 24" long rods.



## Shifter for Gen II Bert Transmission **ALL54127**

Black anodized aluminum shifter is designed specifically for the Gen II Bert transmission. Shifter features a spring-loaded reverse lockout gate to help prevent accidental engagement and easy-to-read engraved range positions. Shifter includes a 14" long, 3/8" shifter rod with rod ends, and an installation template.



## Aluminum Shifter Rods

Black anodized shifter rods are tapped for right and left hand 3/8" rod ends and work with Allstar aluminum shifter assemblies. Rods can be used in many other applications as well.

- ALL54113** ..... 14"
- ALL54114** ..... 16"
- ALL54115** ..... 20"
- ALL54116** ..... 24"
- ALL54117** ..... 30"
- ALL54119** ..... 40"



### Related Components

- ALL58006** .... 3/8"-24 RH Male Rod End
- ALL18254** ..... 3/8"-24 RH Jam Nut, 4-Pack
- ALL58016** .... 3/8"-24 LH Male Rod End
- ALL18255** ..... 3/8"-24 LH Jam Nut, 4-Pack
- ALL99015** .... Rod End Reducer Bushing 3/8" to 1/4"

## Universal Aluminum Shifter Arm

**ALL54118**

Made from 1/4" thick aluminum, arm has a 3/8" wide mounting slot and a 1/4" shifter rod mounting hole. Arm works with most transmissions.



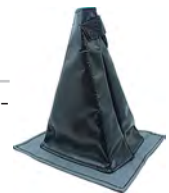
## Clevis Kit For Bert Transmission **ALL54128**

Aluminum clevises have 1/2" inside spacing with 3/8" mounting holes and 3/8"-24 RH threads to connect Allstar and most other shifters to Bert transmission. Two clevises per kit with jam nuts.



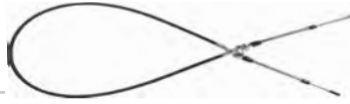
## Shifter Boot **ALL54130**

Fire-resistant, black thermal boot helps prevent re from entering driver compartment. Boot is 7" tall with Velcro strap closure at top. Base is 6" x 7". Used by many top Cup, x nity, Truck, CRA, and Late Model teams.



## Throttle/Shifter Cables

Cables have many uses including use as a throttle cable or as a shifter cable in many applications. Cables have 7/16" mounting threads, #10-32 RH cable ends and 3" of travel.



	Overall Length	Mount to Mount Length
<b>ALL54142</b>	43"	29" +/- 1"
<b>ALL54145</b>	60"	45" +/- 1"

## Quick-Release Cable Ends

Quick-release ends are used when a connection needs to be removed and installed often. Steel constructed housing has a spring-loaded release to keep housing secure to pivot ball.



**ALL54147** ..... #10-32 with #10-32 and 1/4"-28 Studs  
**ALL54149** ..... 1/4"-28 with 1/4"-28 Stud

## Morse Cable Half Clamp

**ALL18325**

Aluminum clamp fits over groove in non-threaded Morse style cables with a 3/8" housing to secure cable in place. Clamps feature a #10 (3/16") mounting hole. Sold each.



## Positive Cam Lock Shifter

**ALL54135**

CNC-machined billet aluminum shifter clamps to the frame on driver's right. Designed for use with live axle shifter quick change. Shifter includes all-steel hardware, heavy-duty cable, and quick-release end.



### Replacement Component

**ALL54142** ..... 43" Long Cable

## Transmission Breather Kit

**ALL36147**

Breather kit provides a remote location for adding a larger breather to many popular manual transmissions. Kit relocates the breather exit location and helps prevent fluid from leaking or blowing out of standard breathers. Includes a remote breather, 15" braided line, mounting bracket, and adapter fitting with 1/8"NPT threads.



## Hydraulic Throwout Bearing Remote Bleed Line Kit **ALL46102**

Bleed line kit connects to most popular hydraulic bearings to allow easier bleeding of system by placing the bleeder screw outside of the bell-housing. Kit includes a 10" long line with adapter fittings for bearings with -3AN, -4AN, or 1/8" NPT bleed ports.



## Locking Transmission Dipsticks

Dipsticks feature a positive lock to keep dipstick in place and seal tight to prevent fluid leaks while sealing out moisture and debris. Steel case tubes have a gold finish, include a welded-on mounting tab, and are fitted with a rubber grommet type seal to reduce the risk of leaks common with traditional O-ring seals. Locking dipstick tubes are required on 10.99 and faster drag cars.



Part No.	Description
<b>Powerglide</b>	
<b>ALL69100</b>	Chevy Car
<b>ALL69101</b>	LS Car
<b>ALL69102</b>	Chevy Dragster
<b>ALL69104</b>	Chevy Altered
<b>ALL69107</b>	Dedenbear Car
<b>ALL69108</b>	Dedenbear Dragster
<b>Turbo-Hydramatic 350</b>	
<b>ALL69110</b>	Chevy
<b>ALL69111</b>	Buick, Olds, Pontiac
<b>Turbo-Hydramatic 400</b>	
<b>ALL69112</b>	Chevy
<b>ALL69113</b>	Buick, Olds, Pontiac
<b>ALL69114</b>	LS
<b>Chevy (Other)</b>	
<b>ALL69116</b>	Chevy 200-4R
<b>ALL69117</b>	Chevy 700R4
<b>ALL69115</b>	LS 700R4
<b>ALL69118</b>	Chevy/GMC 4L80-E
<b>ALL69119</b>	LS 4L80-E
<b>Chrysler Torqueflite</b>	
<b>ALL69120</b>	727 Small Block
<b>ALL69121</b>	727 Big Block
<b>ALL69124</b>	904
<b>Ford</b>	
<b>ALL69126</b>	Ford C-4 Case Fill
<b>ALL69127</b>	Ford C-4 Pan Fill
<b>ALL69128</b>	Ford C-6 Small Block
<b>ALL69129</b>	Ford C-6 Big Block
<b>ALL69130</b>	Ford Automatic Overdrive

### Replacement Component

**ALL99285** .... Sealing Grommet



## Transmission Coolers

Universal coolers reduce operating temperature of the fluid, extend life of the transmission, and provide better performance. Use as a stand-alone cooler or as an auxiliary unit to increase cooling capacity of a stock system. Increased cooling is recommended when using a high-stall converter, or if the vehicle is used for towing. Coolers have 3/8" barbed fittings and include rubber hose, clamps, and mounting kit.



Part No.	Overall Size	Core Size	GVW
<b>ALL26700</b>	12.5" x 5"	9" x 5"	10,000 lbs.
<b>ALL26702</b>	16" x 5"	12" x 5"	12,000 lbs.
<b>ALL26704</b>	12.5" x 7.5"	9" x 7.5"	16,000 lbs.
<b>ALL26706</b>	16" x 7.5"	12.25" x 7.5"	18,000 lbs.
<b>ALL26708</b>	16" x 10"	12.25" x 10"	20,000 lbs.

## Flexplates

Flexplates transfer engine power to the transmission, include the starter ring gear, and have dual (10-3/4" and 11-1/2") converter bolt patterns unless specified. SFI flexplates meet SFI 29.1 specifications including .035" thicker material than stock OE plates, starter ring gears welded on both sides, and a gold zinc chromate finish. 153-tooth flexplates measure approximately 12-7/8" in diameter. 168-tooth flexplates measure approximately 14-1/8" in diameter.



ALL26800

Description	Balanced	Stock	
		Replacement	SFI
SB Chevy 153-Tooth	Internally	<b>ALL26835</b>	<b>ALL26830</b>
SB Chevy 153-Tooth, 86-Up	Externally	<b>ALL26836*</b>	<b>ALL26831*</b>
SB/BB Chevy 168-Tooth	Internally	<b>ALL26805</b>	<b>ALL26800</b>
SB Chevy 168-Tooth, 86-Up	Externally	<b>ALL26806</b>	<b>ALL26801</b>
SB Chevy 400, 168-Tooth	Externally	<b>ALL26815</b>	<b>ALL26810</b>
BB Chevy 454, 168-Tooth	Externally	<b>ALL26825</b>	<b>ALL26820</b>
GM LS 3-Bolt, 168-Tooth	Internally	<b>ALL26845†</b>	<b>ALL26840†</b>

\*Single 10-3/4" Torque Converter Bolt Pattern.

†Will not fit 1999-2000 6.0L applications with 0.400" extended crank angle originally equipped with flat flexplate and will not fit L80E transmissions

## Flywheel Locking Tool SB/BB Chevy **ALL96426**

Place flywheel locking tool onto rear block dowel pins to prevent the flywheel from turning while tightening or loosening balancer bolts, flywheel bolts, clutch/pressure plate bolts, or cam gear bolts. Locking tool works with 153- or 168-tooth flywheels and flexplates.



## Balancing Plate **ALL26120**

Plate is installed between crankshaft angle and the flywheel allowing a popular internally balanced Chevy 350 flywheel to be used with an externally balanced 400 crankshaft.

Note: These are not designed to be used with an automatic transmission flexplate.



## GM LS Engine to TH350/TH400 Adapter Sleeve **ALL26121**

Crank adapter sleeve allows use of an early TH350/TH400 style transmission with an LS engine.



## Torque Converters

Ideal for mild performance applications, including moderate drag racing, factory or street stocks. Economical converters are completely remanufactured with new pump drive hubs and thrust washers. Exact stall speeds will vary depending upon displacement, torque, and vehicle weight.



Part No.	Description	Stall Speed
<b>ALL26908</b>	TH-350/400 10-3/4" B.C.	2000-2200
<b>ALL26906</b>	TH-350/400 10-3/4" B.C.	2200-2600
<b>ALL26900</b>	TH-350/400 10-3/4" B.C.	2700-3000
<b>ALL26902</b>	TH-350/400 10-3/4" B.C.	3200-3500
<b>ALL26904</b>	TH-350/400 10-3/4" B.C.	3500+

## Steel Chevy Bellhousing **ALL26890**

**NEW**

Steel bellhousing is non-SFI and fits small and big block Chevy engines. Works with 153 tooth or smaller flywheel and is designed for use with hydraulic throw out bearing. Includes inspection, dust and starter hole covers. Black zinc finish.



## Pilot Bushing Install Tool



**ALL26115**

Driver simplifies installation of pilot bushings or bearings for manual transmissions including Muncie, Saginaw, BorgWarner, T-10, and many other popular transmissions with .590" pilot shafts.

## Extended Length Pilot Bushings

Use these extra-long bushings when distance between engine and bellhousing has increased due to use of mid-plates, rear engine mounts, or adapters. Bushings help maintain true alignment of clutch disc to flywheel.



**ALL26112**..... Bronze Bushing

**ALL26114**†..... Steel Bushing with Roller Bearing

†Bearing is shipped dry. Apply a good quality, high-temp grease upon installation.

## Clutch Alignment Tools

Splined, high-impact plastic tools are helpful when aligning the clutch disc on the flywheel for proper insertion of the transmission input shaft.



**ALL14290**..... 1-1/8" Dia, 10-Spline

**ALL14292**..... 1-1/8" Dia, 26-Spline

## Transmission Stand

**ALL10175**

Stand is designed to accept most three- and four-speed GM manual transmissions and also Bert/Brinn style transmissions with modification to rear pad mount.



## Transmission Blanket **ALL69010**

Contains transmission explosions on high-horsepower race cars with stock firewall/door pan or where a transmission shield isn't practical. NHRA- and IHRA-approved blanket measures 12" x 47" and meets SFI 4.1 specifications. Includes straps to secure it to any transmission.





### Bellhousing Dowel Pins

Steel dowel pins are approximately 1/2" longer than stock pins and are required when running an engine mid-plate, rear engine mounts, or an aftermarket bellhousing. These extended length pins also help with alignment when installing an engine. Pins fit most GM blocks and are sold in pairs.



ALL38152

- ALL38150**..... Solid Pins
- ALL38152**..... Hollow Pins

### Solid Transmission Mount **ALL38070**

Solid 3/16" steel mounts fit most TH350, TH400, Powerglide, and all BorgWarner, Muncie, and Chrysler 4-speed transmissions. Eliminates twisting, flex, and distortion. Not recommended for use with rubber engine mounts.



### Transmission Mount Bracket

**ALL38072**

May be welded to chassis to support manual or automatic transmissions. Steel bracket is 1/8" thick with 1" x 7/16" slots for mounting bolts.



### Clutch Discs for Bert Transmission

Quality discs are a must when rebuilding the internal clutch of Bert transmissions. Friction disc and steel plate sets are sold separately.



- ALL26950** ...Clutch Friction Discs 6-Pack
- ALL26952** ...Steel Clutches 5-Pack

### Bert Clutch Assembly Tool **ALL14295**

Shaft is used to help align counter shaft when replacing clutch discs and clutches. Shaft features a through hole for installing threaded rod when assembling counter gear assembly before installation, along with an internal thread to assist when removing if necessary.



### Bert Ball Spline Ball Kit

**ALL26963-12**

Hardened steel balls are direct replacements for the ball spline tailshaft.



### Winters Roller Slide Ball Kit

**ALL26960-15**

Hardened steel balls are direct replacements for the Winters roller slide tailshaft.



### Tailshaft Seal and Bushing

The tailshaft bushing is a regular wear item, located inside the transmission tailshaft housing. It should be replaced when replacing the tailshaft seal or when a driveshaft failure has occurred. A worn bushing will cause excessive side-to-side movement of the slip yoke and create a vibration or leak. Bushing and seals fit GM Powerglide, Turbo 350, Saginaw, Muncie, Bert, and Brinn transmissions.



ALL72152

- ALL72150**... Seal
- ALL72152**... Seal with Bushing

### Slip Yokes

Slip yokes provide an important link in today's driveline and chassis combinations. Yokes are available in standard length for most street applications with minimal suspension travel to extra-long for racing suspensions that have a radical amount of travel. 27-spline yokes accept 1310 style U-joints and are for use in many popular transmissions including TH350, TH700R4, Muncie and Saginaw 3 and 4 speeds, Bert and Brinn non-ball spline.



ALL69042  
ALL69043

- ALL69040** .... 6"
- ALL69042** .... 6-3/4"
- ALL69044** .... 7-1/2"
- ALL69046** .... 8"
- ALL69048** .... 8" (Extra Clearance)

### Hardened

- ALL69043** .... 6-3/4"
- ALL69045** .... 7-1/2"
- ALL69047** .... 8"

### U-Joints

Performance U-joints are greasable and fit a variety of driveshaft combinations.



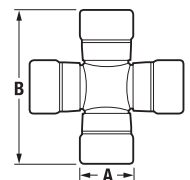
- 1310 Series:** 3.218" Wide with 1.062" Diameter Caps
- 1330 Series:** 3.622" Wide with 1.062" Diameter Caps
- 1350 Series:** 3.622" Wide with 1.187" Diameter Caps

### U-Joints with Same Cross Width

- ALL69030** .... 1310 Series
- ALL69031** .... 1330 Series
- ALL69032** .... 1350 Series

### U-Joints with Different Cross Widths

- ALL69034** .... 1310 to 1330
- ALL69037** .... 1310 to 1330\*
- ALL69035** .... 1310 to 1350
- ALL69036** .... 1330 to 1350



Width = B, Caps = A

\*Standard 1330 spread with larger 1.125" diameter caps.



## Universal Plastic Wheel Covers with No Hardware



High-impact plastic wheel covers feature three reinforced slots for mounting wheel cover to wheel. Covers fit a variety of 15" beadlock wheels including Weld, Bassett, and Aero. Mounting Hardware not included.

- ALL44280** ... Black
- ALL44281** ... White
- ALL44282** ... Red
- ALL44283** ... Blue
- ALL44285** ... Yellow
- ALL44286** ... Orange
- ALL44287** ... Silver
- ALL44288** ... Neon Yellow
- ALL44289** ... Neon Green
- ALL44290** ... Neon Pink

## Universal Plastic Wheel Covers with Quick Turn Fasteners



High-impact plastic wheel covers feature three quick turn fasteners located in a reinforced slot, allowing the same cover to fit a variety of 15" beadlock wheels including Weld, Bassett, and Aero.

- ALL44230** ... Black
- ALL44231** ... White
- ALL44232** ... Red
- ALL44233** ... Blue
- ALL44235** ... Yellow
- ALL44236** ... Orange
- ALL44237** ... Silver
- ALL44238** ... Neon Yellow
- ALL44239** ... Neon Green
- ALL44240** ... Neon Pink

### Replacement Components

- ALL99338** .... Cover Fasteners, 3-Pack

## Bolt-On Universal Plastic Wheel Cover

### ALL44242

High-impact plastic wheel cover features three 1/4"-20 fasteners for secure bolt-on mounting, eliminating the struggle associated with aligning quick turn fasteners during wheel cover installation. Slotted mounting holes allow the same cover to fit a variety of wheels including Weld, Bassett, and Aero. Easily convert quick turn style beadlock wheels with quick turn fasteners to a bolt-on style using the appropriate bolt-on conversion kit. Wheel rings are also available to fit non-beadlock wheels for attaching covers.



## Wheel Cover Rings

Wheel rings fit non-beadlock wheels by securing to the inside lip of most 15" racing wheels to provide a mounting point for a 3-fastener wheel cover.



### Rings for Cover with Quick Turn Fasteners

- ALL44228** .... Steel Round Style Ring
- ALL44229** .... Steel Flat Style Ring
- ALL44179** ..... Aluminum Flat Style Ring

### Rings for Cover with Bolt-On Fasteners

- ALL44243** .... Steel Round Style Ring
- ALL44245** .... Aluminum Flat Style Ring

## Bolt-On Wheel Cover Conversion Kit

Kit includes 1/4"-20 insert plates, wheel cover bolts, and rivets to convert a wheel cover retainer ring with troublesome quick turn fasteners to a bolt-on style ring.



Description	3-Pack	24-Pack
Kit to Replace 1" Quick Turn Springs	<b>ALL44225</b>	<b>ALL44225-24</b>
Kit to Replace 1-3/8" Quick Turn Springs†	<b>ALL44226</b>	<b>ALL44226-24</b>

†Most popular size found on non-beadlock wheel cover retainer rings.

## Sprint Wheel Cover Bolt Kits

Kit includes 5/16"-28 bolts, 1-3/8" spread aluminum insert plates with steel threaded inserts, e-clips to keep bolts on the wheel cover, and rivets. Package of 3.

- ALL44265** .... Stainless Steel
- ALL44266** .... Titanium
- ALL99420** .... Replacement E-Clips, 12-Pack



## Wheel Cover Holder

### ALL12205

Aluminum holder fastens to trailer or shop wall to keep most wheel covers for 15" wheels within easy reach and organized. Holder is 3-1/2" deep and pre-drilled for mounting.





## Weld Style Plastic Wheel Cover ALL44168

High-impact plastic wheel cover secures to Weld and Bassett 15" beadlock or non-beadlock wheels equipped with a wheel cover ring. Cover includes quick turn mounting fasteners.



## Aluminum Wheel Covers

Prevent mud and dirt build up in outer wheel shell. 12-1/2" dia.covers fasten quickly with three quick turn fasteners. Covers t beadlock wheels only and do not cover beadlock bolts. Sold each.



ALL44175

## Weld Style Aluminum Wheel Covers

**NEW DESIGNS**

Aluminum wheel cover secures to Weld and Bassett 15" beadlock or non-beadlock wheels equipped with a wheel cover ring. Mounting fasteners sold separately.



ALL44170



ALL44171



ALL44140



ALL44141



ALL44142



ALL44143



ALL44144



ALL44145

## Wheel Cover Ring

**ALL44178**

Mounting ring installs between the rim and the beadlock ring on beadlock wheels, allowing installation of a wheel cover with a Weld pattern.



## Foam Mud Plugs

An economical way to prevent mud build-up inside racing wheels. Foam discs, in 5" and 3" widths, install quickly and easily in 15" diameter wheels. Allstar logo is imprinted on one side. Sold each.



### 5" Mud Plugs

- ALL44150**..... Black
- ALL44151**..... Red
- ALL44152**..... Blue
- ALL44153**..... Orange

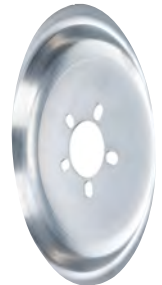
### 3" Mud Plug

- ALL44190**..... Black

## Aluminum Inner Mud Shields

Aluminum shield fits over most 5x5 hubs and inside 15" wheels to help reduce mud build-up commonly found on the backside of the left rear wheel of dirt cars.

- ALL44267** .... 2" Backspace Wheel
- ALL44268** .... 3" Backspace Wheel



## Stainless Steel Inner Mud Shields

Stainless steel shield fits over most 5x5 hubs and inside 15" wheels to help reduce mud build-up commonly found on the backside of the left rear wheel of dirt cars.

- ALL44270** .... 2" Backspace Wheel
- ALL44271** .... 3" Backspace Wheel
- ALL44272** .... 4" Backspace Wheel



Style	Polished	Black
Solid	<b>ALL44170</b>	<b>ALL44171</b>
Louvered	<b>ALL44140</b>	<b>ALL44141</b>
Multi-Holes	<b>ALL44142</b>	<b>ALL44143</b>
Large Hole	<b>ALL44144</b>	<b>ALL44145</b>

## Wheel Rim Screws ALL44045

Self-tapping 1/4" diameter screws anchor the tire to the rim to prevent spinning. For drag use. Package of 35.



WHEEL & TIRE ACCESSORIES





## Wheel Studs

Larger-than-stock studs require redrilling of stock angles. Check sanctioning body for wheel stud requirements. Package of 5.



Part No.	Size	Thread	Underhead Length	Thread Length	Knurl Length	Knurl Dia.
ALL44110	1/2"-20	Fine	2.000"	.925"	.250"*	.585"
ALL44111	1/2"-20	Fine	1.875"	1.250"	.500"*	.685"
ALL44112	1/2"-20	Fine	2.250"	1.300"	.600"*	.600"
ALL44114	5/8"-18	Fine	2.000"	1.250"	.560"	.685"
ALL44115	5/8"-11	Coarse	2.000"	1.00"	.375"	.690"
ALL44117†	5/8"-11	Coarse	2.750"	1.750"	.375"	.690"
ALL44116*	5/8"-11	Coarse	2.750"	1.450"	.725"	.690"
ALL44113‡	5/8"-11	Coarse	3.750"	2.750"	.375"	.690"
ALL44119*	5/8"-11	Coarse	3.750"	2.400"	.725"	.690"

\*Length with shoulder.

†Popular 5x5 Hub Wheel Stud

‡Popular Wide 5 Hub Wheel Stud



## 43/64" Wheel Stud Drill Bit ALL11045

43/64" bit is correct for drilling hubs or axle angles to accept most 5/8" wheel studs with .690" knurl diameter. 1/2" shank.



## Wheel Stud Thread Chaser ALL11048

Designed to clean up damaged threads on wheel studs with 5/8"-11 threads. Thread chaser will not repair threads on bent wheel studs.

Note: We recommend using a lubricant such as WD-40 with thread chaser.



## Glueless Lug Nuts

Open-end lug nuts attach to the wheel with springs for FASTER pit stops! Kits contain 5 glueless lug nuts with springs attached and self-tapping screws for mounting.

ALL44107..... Complete Kit, 5/8"-18 Thread (Fine)

ALL44108..... Complete Kit, 5/8"-11 Thread (Coarse)

ALL44109..... Replacement Spring and Screw, 5-Pack



## Lug Nuts

Large diameter, open-end lug nuts are designed to fit most racing wheel applications and will not pull through the wheel. Nuts are available in steel or aluminum with SAE or metric threads and feature a 45° tapered seat.



### Aluminum Lug Nuts

Description	Pack Of 10	Box Of 100	Box Of 350	Box Of 400
5/8"-11 (Coarse) Double Chamfer	ALL44096	ALL44096-100	-	-
5/8"-11 (Coarse) Double Chamfer§	ALL44097	ALL44097-100	-	-

### Steel Lug Nuts (Heat Treated and Zinc Plated)

Description	Pack Of 10	Box Of 100	Box Of 350	Box Of 400
5/8"-11 (Coarse) Double Chamfer	ALL44098	ALL44098-100	-	-
5/8"-11 (Coarse)	ALL44106	ALL44106-100	-	ALL44106-400
5/8"-18 (Fine)	ALL44104	ALL44104-100	-	ALL44104-400
1/2"-20 (Fine)	ALL44102	ALL44102-100	ALL44102-350	-
7/16"-20 (Fine)	ALL44100	ALL44100-100	-	ALL44100-400
M12-1.25 (Metric)	ALL44103	ALL44103-100	ALL44103-350	-
M12-1.50 (Metric)^	ALL44101	ALL44101-100	ALL44101-350	-

§Hard coated.

^Most popular metric for GM, Ford and Chrysler.

## Hex Pit Sockets with Extension

Hex style pit sockets with a built-in extension prevent extension and socket from separating during wheel changes.

### 3/8" Drive

ALL10234..... 6"

ALL10235..... 12"

### 1/2" Drive

ALL10239..... 6"

ALL10240..... 12"



## Super Sockets with Extension

Pit sockets are available with 5" or 11" extensions and include our Super Socket for fast wheel changes without jamming lug nuts. Sockets fit 1" lug nuts and are used with 1/2" drive impact guns.

ALL10242..... 5"

ALL10241..... 11"



## Economy Quick Spin Lug Wrench ALL10108

Lug wrench is a 1" diameter tube with a shallow 1" socket welded to one end and rotating piece of plastic pipe attached to the other. The 10" handles are angled with rubber grips and the overall length is 23".



### Aluminum Wheel Spacers

Change wheel offset without changing wheels! Universal design fits 5 on 4-1/2", 5 on 4-3/4", and 5 x 5" patterns. Uses 5/8" stud slot to aid in centering.

- ALL44216**..... 1/4"
- ALL44217**..... 1/2"
- ALL44218**..... 3/4"
- ALL44219**..... 1"



### Aluminum Wheel Spacers

Spacers fit 4-1/2", 4-3/4", and 5" bolt circle patterns. Spacers increase track width, requiring less wheel offset. Sold each.

- ALL44120**..... 1/4"
- ALL44121**..... 1/2"
- ALL44122**..... 3/4"
- ALL44123**..... 1"



Note: 4-1/2" and 4-3/4" bolt patterns machined to clear 1/2" studs; 5" bolt pattern machined to clear 5/8" studs.

### 4-Lug Steel Wheel Spacer

**ALL44200**

Steel spacer is 1/4" thick, fits 4x4-1/4" and 4x4-1/2" bolt patterns with 1/2" wheel studs.



### 5x5" Steel Wheel Spacers

Spacers fit 5x5" hubs with 5/8" studs and provide maximum tread width for adjustment of chassis weight distribution. Spacers are made from tough 1018 steel and have a 3-1/2" I.D. and a 7" O.D.

- ALL44124**..... 1/16"
- ALL44125**..... 1/8"
- ALL44126**..... 1/4"



### Aluminum Wide 5 Wheel Spacers

One-piece aluminum spacer moves Wide 5 wheel outboard. Sold each.

- ALL44129**..... 1/8" Thick
- ALL44127**..... 1/4" Thick



### Aluminum Wide 5 Threaded Wheel Spacers

Aluminum spacers thread directly onto wheel studs of Wide 5 hubs with 5/8"-11 threads. Hex design is easily installed and removed. Longer studs may be required when using spacers. Package of 5.

- ALL44210**..... 1/4"
- ALL44211**..... 3/8"
- ALL44212**..... 1/2"
- ALL44214**..... 3/4"
- ALL44215**..... 1"



### Aluminum Wheel Adapter

**ALL44128**

Adapter bolts to stock 5 x 4-1/2" or 4-3/4" bolt circle hub or axle flanges when adapting to 5 x 5" bolt circle pattern wheels. Adapter is fitted with 5/8"-11 coarse thread studs and measures 1" thick. Adapters are bolted from the backside of hub or axle using 1/2"-20 mounting hardware (not-included). Not for use with additional wheel spacers and additional machining may be required for proper installation.



### Backing Pads and Sanding Discs

Backing pads are designed to work with sanders that have a 5/8"-11 arbor. Sanding discs are specific to each backing pad and sold in packs of 5.

#### 7" Backing Pad and Sanding Discs

Backing pad is a multi-piece unit that features a hard backing. The sanding disc is secured to the sander along with the backing pad and reinforcing disc with one spanner nut.

- ALL44186**..... 7" Backing Pad
- ALL44187**..... 7" Sanding Discs, 36 Grit



#### 8" Backing Pad and Sanding Discs

Backing pad is a one-piece unit that features a soft foam backing and a molded-in threaded insert to mount directly to the sander. The backing pad accepts hook-and-loop style sanding discs.

- ALL44188**..... 8" Backing Pad
- ALL44189**..... 8" Sanding Discs, 36 Grit
- ALL44198**..... 8" Sanding Discs, 24 Grit
- ALL44197**..... 8" Sanding Discs, 16 Grit



### Tire Grinding Discs



Grind off the hardened outer "skin" on used dirt track tires and create round, aggressive sipes to increase traction. Use caution when handling and storing nail head disc; pins are needle sharp.

Part No.	Description	Diameter	Arbor Hole
<b>ALL44180</b>	Rounded Disc, 23 Grit	4"	5/8"
<b>ALL44181</b>	Flat Disc, 23 Grit	4"	5/8"
<b>ALL44182</b>	Rounded Disc, 16 Grit	7"	7/8"
<b>ALL44183</b>	Nail Head Disc	7"	7/8"
<b>ALL44196</b>	Nail Head Disc	8"	5/8"

**Safety Note:** To prevent bodily injury the tire must be mounted on the car or secured in a tire holder. Eye and hand protection is required.



## “All-In-One” Heated Tire Groovers

Self-contained groover has built-in temperature controls, eliminating the additional cord and separate control box common with other groovers. Don't let the small package fool you; this groover has the ability to cut small intricate grooves yet still handle removing material up to a 1/2". Tapered, razor-sharp blade grooves fast and easy. To operate, insert a single blade into groover, set blade height with a tire depth gauge, and set the power level. Place the cutting edge against the tire surface and obtain instant heat by simply squeezing the trigger. Groover features a Hi/Low toggle switch and a temperature control dial in the handle for setting desired heat level. “All-In-One” groover requires “All-In-One” blades; do not use standard groover blades with this groover.



ALL10770

**ALL10770**..... 110V Groover Includes 1 Each 4/32", 5/32", 6/32", 8/32", and 10/32" Flat Blades.

**ALL10772**..... 220V Groover (Intended for International Use) Power cord requires the attachment of a 220-volt, grounded, 3-prong plug (not included). Includes 1 Each 4/32", 5/32", 6/32", 8/32", and 10/32" Flat Blades.

## “All-In-One” Groover Blades

Hard-tempered spring steel blades are designed for use with the ALL10770 and ALL10772 “All-In-One” Heated Tire Groovers. Blades are honed to a razor-like finish and have a tapered shape making the blade wider near the top where strength is needed and thinner at the bottom, greatly reducing drag as the blade cuts through the rubber. Blades are sold in packages of 12.

**Note:** All-In-One Groovers must use these All-In-One Blades but these blades can be used in any of our other groovers.



Blade	Size	Flat Bottom Blades	Round Bottom Blades
#1	1/32"	-	<b>ALL10790</b>
#2	2/32"	-	<b>ALL10791</b>
#3	3/32"	<b>ALL10780</b>	<b>ALL10792</b>
#4	4/32"	<b>ALL10781</b>	<b>ALL10793</b>
#5	5/32"	<b>ALL10782</b>	<b>ALL10794</b>
#6	6/32"	<b>ALL10783</b>	<b>ALL10795</b>
#8	8/32"	<b>ALL10784</b>	<b>ALL10796</b>
#10	10/32"	<b>ALL10785</b>	<b>ALL10797</b>
#12	12/32"	<b>ALL10786</b>	<b>ALL10798</b>
#14	14/32"	<b>ALL10787</b>	-
#16	16/32"	<b>ALL10788</b>	-

## Heated Tire Groovers

Groovers add extra traction in minutes. Tapered, razor-sharp blade grooves fast and easy. To operate, insert a blade into groover, set blade height with a tire depth gauge, and set the power level. Features triggerless activation – simply place the cutting edge against the tire surface and press down for instant heat. Includes 2 each 4/32", 6/32", 8/32", and 10/32" fl t blades.



ALL10260

**ALL10260**..... 110V Groover Features a 4-level dial and a hi/low switch for 8 total heat settings.

**ALL10590**..... 220V Groover (Intended for International Use) Features a 4-level dial and a multi-positional dial for fine-tuned heat settings. Power cord requires the attachment of a 220-volt, grounded, 3-prong plug (not included).

## Heated Tire Groover Blades

Hard-tempered spring steel blades are designed for use with the ALL10260, ALL10270, and ALL10590 Heated Tire Groovers. Blades are honed to a razor like finish and have a tapered shape making the blade wider near the top where strength is needed and thinner at the bottom, greatly reducing drag as the blade cuts through the rubber. Blades are sold in packages of 12.

**Note:** Do not use these blades in "ALL-IN-ONE" style groovers!



Blade	Size	Flat Bottom Blades	Round Bottom Blades
#1	1/32"	-	<b>ALL10267</b>
#2	2/32"	-	<b>ALL10268</b>
#3	3/32"	<b>ALL10271</b>	<b>ALL10269</b>
#4	4/32"	<b>ALL10272</b>	<b>ALL10276</b>
#6	6/32"	<b>ALL10273</b>	<b>ALL10277</b>
#8	8/32"	<b>ALL10274</b>	<b>ALL10278</b>
#10	10/32"	<b>ALL10275</b>	<b>ALL10279</b>

## Heavy-Duty Flat Bottom Grooving Blades

Heavy-duty blades are twice as thick as standard blades for removing large amounts of material with less chance of blade damage. Commonly used in off-road racing. Package of 12.

**ALL10580**..... #16 Flat, 16/32"

**ALL10582**..... #20 Flat, 20/32"

**ALL10584**..... #24 Flat, 24/32"

**ALL10586**..... #32 Flat, 32/32"







## Tire Covers

Canvas cover is ideal for open wheel cars to keep tire out of direct sunlight.

- ALL44255** ... 8" Wheel/Tire
- ALL44256** ... 10" Wheel/Tire **NEW**
- ALL44257** ... 12" Wheel/Tire **NEW**



## Easy Wrap Tire Covers

Cover tires quickly and easily. Elastic bands allow you to stretch the cover over your tires after washing or grinding to keep tires clean.



Description	4-Pack	12-Pack
UMP Modified Tires (85-89" Dia.)	<b>ALL44222</b>	<b>ALL44222-12</b>
Late Model Tires (93-96" Dia.)	<b>ALL44223</b>	<b>ALL44223-12</b>

## Tire Wrap

Tires lose solvents and moisture over time but keeping them covered helps prevent tires from drying out. Wrap also helps contain or reduce the amount of chemicals used during "soaking" by minimizing evaporation. Wrap is 18"W x 1500'L.



- ALL44221** .... Black
- ALL44224** .... Clear

## Tire Stack Cover **ALL44220**

Easy access canvas cover features a full length zipper. Perfect for use in the tire impound, keeping your tires out of the weather or hiding them from the eyes of your competition. 50" tall black cover will fit a set of 4 tires with a 86" maximum circumference.



## Dirt Tire Soap **ALL78236**

Clean your tires like the Pros! Simply mix with water and spray on your tires before washing them and the mud almost falls off. Cleaner also works for pre-treating your chassis and body before cleaning to help loosen dirt and clay. 1-gallon container.



## Tire Spoons



Steel tire spoons help to mount and dismount tires after bead has been broken. Various sizes are available to work with most tire/wheel combinations. Small tool works well to fit inside tire during removal while rounded ends help prevent damage to tire and wheel.

- ALL10103** ..... 24" Straight with Round End
- ALL10104** ..... 16" Curved with Flat End
- ALL44037** .... 16" Curved with Round End
- ALL44036** .... 9" Curved with Round End

## Bead Breakers

Convenient tool makes quick work of breaking down even the most stubborn tire beads.

Durable steel construction with rubber hand grips. Clamp the hook and inside jaw against the rim, while maintaining slight pressure on the outside handle, then press down on the inside handle, using the outer jaws to separate the tire from the rim, moving around the rim as needed.



- ALL44026** .... Bead Breaker for 10" Wheels
- ALL44027** .... Bead Breaker for 13" Wheels
- ALL10105** ..... Bead Breaker for 15" Wheels
- ALL10106** ..... Bead Breaker for 15" Wheels Wide Jaw\*
- ALL44028** .... Bead Breaker w/ Adjustable Arm for 10", 13", and 15" Wheels

\*Wide jaw bead breaker works well with soft sidewall tires, helping prevent damage to sidewall.

## Aluminum Air Tanks

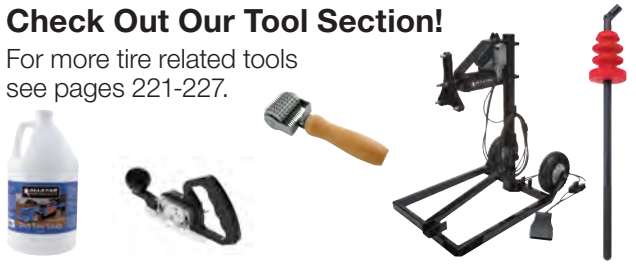
Portable lightweight aluminum tanks provide an easy way to air up tires. Welded tanks will not rust or corrode and are pressure tested to military specifications up to 300 PSI. Tanks feature a 125 PSI pressure relief valve to prevent over filling



- ALL10531** ..... 7" x 10" Horizontal Tank, 1-1/2 Gallon
- ALL10532** ..... 7" x 24" Vertical Tank, 2-3/4 Gallon
- ALL10530** ..... 9" x 11" Horizontal Tank, 2-3/4 Gallon
- ALL10534** ..... 9" x 20" Horizontal Tank, 5 Gallon

## Check Out Our Tool Section!

For more tire related tools see pages 221-227.



WHEEL & TIRE ACCESSORIES

## Tire Pressure Gauges, Glow In The Dark

Tire pressure gauge has a glow-in-the-dark face. Swivel chuck rotates 360° on a 14" long rubber hose for easy placement on valve stems with leak-free operation. A rubber cover surrounds the gauge for added protection against drops and has a ribbed molded pattern for increased grip. Gauge also features a built-in pressure release valve for removing air in small amounts for precise pressure adjustments.

### 2-1/4" Diameter

**ALL44056** .... 0-15 PSI, 2-1/4"

**ALL44057** .... 0-30 PSI, 2-1/4"

**ALL44058** .... 0-60 PSI, 2-1/4"

### 4" Diameter

**ALL44046** .... 0-15 PSI, 4"

**ALL44047** .... 0-30 PSI, 4"

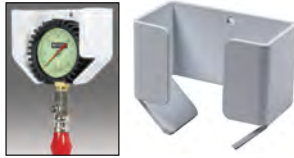
**ALL44048** .... 0-60 PSI, 4"



ALL44047

## Tire Gauge Holders

Secure holder to shop or trailer wall to keep tire gauge conveniently located. Aluminum holder works with most tire gauges and has wraparound sides to hold gauge in place.



ALL12259

**ALL12259** ..... Holds Gauges up to 3-1/2" O.D.

**ALL12260** ..... Holds Gauges up to 4" O.D.

## Tire Gauges

2" gauge has a 12" flex hose with swivel chuck and pressure release valve. Accurate to within +/- 1%.



ALL44077

**ALL44076** .... 0-20 PSI

**ALL44077** .... 0-40 PSI

## Tire Tape Measures

10' foot long tapes are ideal for measuring tire diameters and checking stagger.

**ALL10111** ..... Economy

**ALL10112** ..... Deluxe



ALL10111

ALL10112

## Tire Tape **ALL10674**

Easily figure out your tire stagger, the difference in circumference from one tire to the other, with the help of this unique tire tape measure. The tape works by first measuring the largest tire and then using this dimension when measuring the smaller tire. The tape does the math for you, the value the larger tire size aligns with is your stagger value or amount of stagger.



## In-Car Memory Tire Temp Gauge



Digital tire temp gauge with memory (maximum temp). Gauge will show real-time temp and allows you to recall max temp after your race. Align and mount the sensor within 24" of tire to monitor for best results. Designed for use with 12- and 16-volt systems. Temp Range 0-300°F. Gauge size is 2.75" wide x 1.375" tall. Sensor size is 3/4" x 3/4". Sensor mounting bracket 1.5" wide. Complete kit includes gauge, sensor, wiring and instructions.

**ALL80085** .... Complete Kit

**ALL80086** .... Replacement Sensor

## Stagger Gauge

**ALL10116**

Measures tire diameter and automatically converts it to circumference. Strong tubular gauge will not flex and will provide accurate, consistent stagger measurements every time. Gauge measures from 65" to 115" in 1/4" increments.



## Replacement Component

**ALL99044** .... Tape Decal

## Tire Crayons

Ideal for temporary tire marking. 1/2" x 4-5/8".

**ALL12060** ..... White

**ALL12061** ..... Yellow



## Paint Markers

Long-lasting, weather, water, and UV-resistant markers work on glass, plastic, rubber and metal. Durable fiber tip permits fine or bold lines. Perfect for indicating tire stagger. Quick dry, lead-free paint.

**ALL12050** ..... Silver

**ALL12051** ..... Yellow

**ALL12052** ..... White

**ALL12053** ..... Red

**ALL12054** ..... Blue

**ALL12055** ..... Light Blue

**ALL12056** ..... Black

**ALL12057** ..... Orange





### Tire Durometer **ALL44034**

Easily check tire hardness. Includes storage pouch.



### Schrader Valves **ALL44065**

Inflating tires through quick disconnects mounted in rim eliminates an extra valve stem. Valves work with Allstar Performance center reliefs and other popular plastic or aluminum quick disconnect fittings. Sold in pairs.



### Wheel Disconnects

Fit 5/8" diameter valve stem hole for use with center reliefs and Schrader (Fill) valve (ALL44065).

- ALL44060** .... Plastic, 4-Pack
- ALL44061** .... Plastic, Each
- ALL44062** .... Aluminum, 4-Pack
- ALL44063** .... Aluminum, Each



ALL44061

### Replacement Components

- ALL44066** .... Sealing Washer, 4-Pack
- ALL44067** .... Grommet, 4-Pack



ALL44066

ALL44067

### Valve Stem Puller **ALL44032**

Puller threads onto valve stem and properly pulls rubber valve stems into place. Large rubber block protects expensive wheels and creates leverage when pulling.



### Valve Core Tool **ALL44030**

Easily remove and install valve cores. Base of handle has a machined pattern to aid with grip. Ergonomically designed and crafted from stainless steel. Measures 3" overall length.



Bryan Barber

### Brass Valve Stems

Brass bolt-in valve stem resists cutting during contact. Sold each.

- ALL44134**..... Brass Valve Stem. Fits .625" Hole
- ALL44135**..... Chrome Plated Brass Valve Stem. Fits .453" or .625" Hole



ALL44134

### Replacement Components

- ALL99150**..... Valve Core, 10-pack
- ALL99151**..... Valve Stem Caps, 10-Pack



### Snap-In Rubber Valve Stems

Economical rubber valve stems pull through wheel for easy installation. Large stem for 5/8" hole is the most popular size valve stem used in racing wheels. Smaller stem for .453" hole is commonly found in stock steel and utility vehicle wheels.



- ALL44136**..... Stem for 5/8" (.625") Hole, 4-Pack
- ALL44136-50**..... Stem for 5/8" (.625") Hole, 50-Pack
- ALL44139**..... Stem for .453" Hole, 4-Pack

### Flush Mount Valve Stem Kit **ALL44137**

Chrome-nished steel, bolt-in valve stem mounts in standard valve stem location and provides a clean semi-flush appearance. Valve stem features an O-ring to seal against the outside of the wheel and a rubber grommet, washer and nut that seals against the inside of the wheel. Kit includes four valve stems with dust covers and an extension filler tube. Valve stems are designed for use in wheels with .453" valve stem holes.



### Replacement Components

- ALL44138**..... Filler Tube

### Valve Stem Cores

This inner portion of the valve stem is often damaged or leaking. Cores are easy to replace with ALL44030 tool when replacing tires to assure a leak-free valve stem. Universal design fits most standard valve stems.

- ALL99150**..... 10-Pack
- ALL99150-100**... 100-Pack



### Valve Stem Caps

An often overlooked item, caps prevent dirt and debris from entering the core portion of valve stems. Stainless steel caps have an inner seal for additional sealing.

- ALL99151**..... 10-Pack
- ALL99151-100**... 100-Pack



### Hex-Head Valve Stem Caps

Keep dirt and debris out of valve stems while providing an attractive finishing touch to wheels. Chrome plated brass hex caps fit most valve stems and have a built-in inner seal to prevent air loss. Package of 4.







## Hats

Hats have Allstar Performance logo embroidered on the front and an adjustable head band.



- ALL99951** .... Black
- ALL99957** .... Black with Black Mesh Back
- ALL99959** .... Black with White Mesh Back

## Beanie **ALL99953**



## T-Shirts

T-shirts have a large Allstar Performance logo on the back and a small logo on the front left chest. Available in black, red, gray, or charcoal. Specify size when ordering (YS\*, YM\*, YL\*, S, M, L, XL, XXL, XXXL).



- ALL99902** .... Black
- ALL99904** .... Red
- ALL99906** .... Gray
- ALL99907** .... Charcoal

\*Sizes YS, YM and YL only available in Black

## Graphic T-Shirt

Black T-shirt with red and gray graphics on front and back. Specify size when ordering (S, M, L, XL, XXL, XXXL).



## Circle Track T-Shirt

Dark gray T-shirts have a circle track theme and Allstar Performance logos on front and back. Specify size when ordering (S, M, L, XL, XXL, XXXL).



## Ladies

### Vintage T-Shirts

Available in burgundy, charcoal, or navy. Specify size when ordering (S, M, L, XL, XXL).

- ALL99920** .... Burgundy
- ALL99921** .... Charcoal
- ALL99922** .... Navy



### Full Zip Hoodie

#### **ALL99917**

Charcoal full zipper style hoodie features a small Allstar Performance logo on left chest and is made from a 50/50 blend of soft spun cotton and poly eece. Specify size when ordering (S, M, L, XL, XXL, XXXL).



### Hoodie **ALL99916**

Allstar Performance hoodie features a two color design and is 100% polyester for a wrinkle-free look. Specify size when ordering (S, M, L, XL, XXL, XXXL).



### Hooded Sweatshirt

#### **ALL99913**

Black hooded sweatshirt has large Allstar Performance logo across the chest, drawstring hood and a large pocket. Specify size when ordering (YM, YL, S, M, L, XL, XXL, XXXL).



### Graphic Hooded Sweatshirt **ALL99919**

Black hooded sweatshirt has red and gray graphics across the chest and back, drawstring hood, and large pocket. Specify size when ordering (M, L, XL, XXL).



APPAREL & DISPLAY MATERIAL



### Lightweight Jacket

**ALL99918**

Black jacket has a small Allstar Performance logo on front left chest area. Specify size when ordering (M, L, XL, XXL).



### Backpack ALL99970

Quality backpack has many features including a front compartment with multiple pockets and inner padded compartments for up to a 15" laptop and tablet. Additional features include side pockets for water bottles or cups, padded shoulder straps with connecting buckle and a padded carrying handle. 19" x 12" x 6".



### Apron ALL99962

Black cloth apron has pockets to keep tools close at hand. Reverse apron to place pockets on the inside when grinding tires. Adjustable strap allows one size to fit all.



### Work Gloves

General purpose gloves protect hands from everyday abuse in the shop or at the racetrack. Lightweight, elastic weave material with reinforced palm and fingers allows mobility and unrestricted use.



**ALL99940** ..... Medium

**ALL99941** ..... Large

**ALL99942** ..... X-Large

### Umbrella ALL99960

Versatile umbrella is only 16" long when retracted, but opens to a full 36".



### Can Cooler ALL99965

Keep your hand warm and your favorite beverage cool and covered.



### Merchandising Displays

Allstar Performance merchandising displays for race, street, and drag. Each 4' x 4' display features a variety of fast-selling products to satisfy customer needs. A layout diagram is supplied to simplify set up. Display packages include free bonus items such as Allstar header display, Allstar decals, Allstar hang tags, and hooks. Display rack not included.

**ALL070**... Circle Track

**ALL071**... Circle Track

**ALL072**... Drag Race

**ALL073**.. Street Performance

**ALL074**... Open Wheel/Sprint

### Brake Fitting Displays

8" x 10" card includes an assortment (1 piece each) of popular brake line fittings. Visit website for breakdown.

**ALL080** ..... Display #1

**ALL081** ..... Display #2

**ALL082** ..... Display #3

**ALL083** ..... Display #4



### Clock ALL99968

Silver framed 10" diameter clock features a bright white face with easy-to-read black numbers and hands. Includes AA battery.



APPAREL & DISPLAY MATERIAL





## Decals

Show support for your favorite parts supplier by placing one of these decals on your vehicle, tool box or your shop refrigerator.



- ALL029** ..... 2" x 6"
- ALL030** ..... 3" x 10"
- ALL031** ..... 6" x 18"
- ALL032** ..... 8" x 26"
- ALL034** ..... 10" x 32"

## Banner ALL010

Allstar Performance banner is 30" tall x 72" wide.



## Showroom Display Header ALL038



Display header provides an excellent way to display Allstar products. Precut 6" x 48" black painted aluminum header may be trimmed to desired width.

## Peg Hooks

Peg hooks t standard 1" spaced peg board. Available in 2", 4", or 6" lengths, 1/8" diameter. Package of 50.



- ALL054** ..... 2"
- ALL055** ..... 4"
- ALL056** ..... 6"

## Product Fix-It Tags

Clear plastic tags are used to repair or reinforce the peg hook hole of most carded and bagged product. Tags have a self-adhesive backing which provides a quick and easy option for repairing display merchandise.



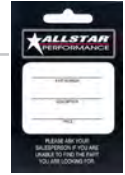
- ALL020** ..... 10-Pack
- ALL020-50**... 50-Pack



Rico Abreu

## Hang Tags ALL040

Place tags behind product in showroom or parts trailer to provide part number, description, and price information for reordering. Package of 100.



## Black Plastic Bags ALL048

18"L x 14-1/2"W. Package of 100.



## Catalog Display Rack ALL042

Display Allstar catalogs next to products on counter top or as part of pegboard or slat wall display. Includes 10 Allstar Performance catalogs.



## Counter Mat ALL062

18"L x 11-1/2"W.



## Note Pads ALL044

Ruled 5-1/2" x 8-1/2" note pads are great to have in the shop or trailer to keep track of parts you need to order or keeping track of important set-up information. Package of 6.







Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
010	250	10139	211	10235	225	10441	149	10590	230	11002	209
020	250	10140	212	10239	225	10445	149	10600	223	11003	217
029	250	10141	212	10240	225	10446	150	10605	223	11005	217
030	250	10142	211	10241	225	10452	45	10610	223	11008	93
031	250	10143	212	10242	225	10453	45	10612	223	11010	209
032	250	10144	211	10246	153	10454	45	10625	224	11011	209
034	250	10145	211	10247	153	10455	46	10626	224	11015	210
038	250	10147	211	10248	153	10456	46	10630	224	11017	210
040	250	10148	211	10249	153	10457	46	10632	224	11018	210
041	231	10149	211	10252	160	10458	46	10633	224	11019	210
042	250	10150	211	10253	223	10459	46	10634	224	11020	210
043	210	10151	211	10254	223	10460	46	10635	224	11022	210
044	250	10152	211	10256	223	10464	46	10636	224	11023	205
047	226	10154	211	10258	218	10466	46	10637	224	11024	205
048	250	10156	211	10260	230	10468	46	10638	224	11026	210
052	210	10157	211	10265	228	10470	46	10644	47	11030	204
054	250	10159	211	10266	228	10475	149	10655	225	11031	204
055	250	10162	211	10267	231	10480	149	10658	183	11036	204
056	250	10163	211	10268	231	10482	149	10660	232	11037	208
059	230	10164	211	10269	231	10485	46	10662	232	11038	208
062	250	10165	211	10271	231	10486	46	10672	232	11039	208
070	249	10166	211	10272	231	10487	46	10674	226	11040	205
071	249	10171	211	10273	231	10488	46	10675	232	11041	205
072	249	10172	211	10274	231	10489	46	10676	232	11045	205
073	249	10173	211	10275	231	10490	46	10678	232	11048	225
074	249	10174	211	10276	231	10510	151	10680	218	11052	213
080	249	10175	238	10277	231	10512	151	10720	232	11056	208
081	249	10178	234	10278	231	10513	151	10721	232	11057	208
082	249	10180	222	10279	231	10516	218	10722	232	11058	208
083	249	10181	155	10280	153	10518	218	10723	232	11059	208
10103	229	10182	222	10283	153	10526	225	10725	182	11060	208
10104	229	10184	222	10284	153	10527	225	10726	182	11061	208
10105	229	10188	222	10285	153	10530	225	10730	161	11062	208
10106	229	10192	222	10286	153	10531	225	10731	161	11063	208
10108	225	10196	222	10287	153	10532	225	10742	204	11064	208
10110	234	10200	222	10288	153	10534	225	10752	232	11065	208
10111	226	10203	222	10289	153	10535	212	10770	230	11066	208
10112	226	10204	222	10290	153	10538	212	10772	230	11067	208
10113	204	10207	222	10291	153	10540	228	10780	231	11068	208
10114	234	10208	222	10293	153	10550	227	10781	231	11069	208
10115	234	10209	222	10294	153	10551	227	10782	231	11070	204
10116	226	10210	222	10295	153	10555	228	10783	231	11072	204
10117	232	10211	153	10298	153	10561	228	10784	231	11074	204
10119	232	10214	153	10299	153	10562	228	10785	231	11075	204
10120	208	10217	152	10402	204	10565	227	10786	231	11076	204
10121	93	10218	152	10411	204	10566	227	10787	231	11078	204
10122	208	10219	152	10412	204	10567	227	10788	231	11080	209
10123	212	10221	152	10413	204	10570	227	10790	231	11081	209
10124	223	10222	152	10414	204	10572	227	10791	231	11082	209
10125	212	10223	146	10416	204	10574	227	10792	231	11083	209
10126	223	10227	150	10417	204	10575	227	10793	231	11085	209
10130	211	10228	146	10418	204	10576	227	10794	231	11086	209
10132	211	10229	146	10419	204	10577	227	10795	231	11087	209
10133	211	10230	225	10422	223	10580	231	10796	231	11100	216
10136	211	10232	225	10425	223	10582	231	10797	231	11106	216
10137	212	10233	225	10426	223	10584	231	10798	231	11108	216
10138	211	10234	225	10439	149	10586	231	11000	209	11110	216



NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
11112	216	12025	218	13000	147	14146	92	14245	92	14431	45
11116	216	12026	218	13001	147	14147	92	14246	92	14436	45
11118	216	12027	218	13004	147	14148	92	14247	92	14437	45
11120	216	12030	221	13007	147	14149	219	14248	92	14450	45
11124	216	12031	221	13008	22	14150	92	14251	92	14451	45
11126	216	12032	221	13009	22	14151	92	14252	92	14452	45
11128	216	12033	221	13010	22	14152	92	14253	92	14453	45
11130	216	12035	221	13011	147	14153	92	14254	92	14454	45
11132	216	12050	226	13012	147	14154	92	14255	92	14455	45
11134	216	12051	226	13014	147	14155	92	14261	92	14456	45
11151	216	12052	226	13018	147	14156	92	14263	92	14457	45
11152	216	12053	226	13020	147	14157	92	14265	92	14458	45
11153	216	12054	226	13021	147	14158	92	14266	92	14459	45
11155	186	12055	226	13022	147	14159	92	14267	92	14474	45
11161	234	12056	226	13025	147	14160	219	14268	92	14475	45
11170	207	12057	226	13100	146	14161	219	14270	219	14480	46
11172	207	12060	226	13104	146	14162	92	14272	219	14481	46
11174	207	12061	226	13106	146	14163	219	14275	219	14483	46
11175	207	12064	205	13107	146	14165	219	14276	219	14485	46
11176	207	12066	205	13108	146	14166	235	14277	219	14486	46
11177	207	12070	213	13109	146	14170	215	14280	62	16000	101
11178	216	12072	226	13115	46	14171	235	14282	220	16001	101
11179	216	12073	226	14100	152	14172	214	14285	220	16002	101
11180	216	12100	208	14101	152	14173	214	14288	220	16003	101
11181	216	12101	208	14102	152	14174	214	14290	214	16004	101
11182	207	12102	208	14103	152	14175	219	14292	214	16005	101
11184	207	12103	208	14104	152	14176	46	14295	239	16006	101
11187	187	12105	208	14105	152	14177	46	14300	209	16010	101
11188	187	12106	208	14106	152	14178	46	14305	209	16011	101
11190	232	12107	208	14110	152	14179	46	14306	209	16012	101
11195	216	12121	208	14111	152	14180	46	14350	235	16013	101
11196	216	12122	208	14112	152	14181	46	14351	235	16014	101
11197	216	12123	208	14115	152	14182	46	14352	235	16015	101
11300	224	12130	208	14116	93	14183	46	14355	235	16016	101
11301	224	12131	208	14117	93	14184	46	14356	235	16020	101
11302	224	12132	208	14120	93	14185	46	14360	217	16021	101
11303	224	12200	221	14122	93	14186	46	14361	217	16022	101
11305	224	12201	221	14123	93	14187	46	14365	217	16023	101
11310	224	12202	221	14124	93	14188	46	14366	217	16024	101
11312	224	12203	221	14125	93	14189	46	14380	93	16025	101
11313	224	12204	221	14126	93	14190	46	14381	93	16026	101
11319	24	12205	221	14127	93	14192	46	14383	93	16030	101
11350	234	12210	225	14128	93	14193	46	14385	93	16031	101
11351	234	12211	233	14129	93	14194	46	14390	93	16032	101
11355	234	12212	233	14130	93	14195	46	14391	93	16033	101
11360	234	12213	233	14132	93	14196	46	14392	93	16034	101
12000	218	12214	221	14133	93	14197	46	14395	93	16036	101
12005	220	12215	233	14134	93	14198	152	14396	93	16041	101
12006	220	12216	156	14135	93	14200	59	14408	45	16042	101
12008	220	12219	220	14136	93	14201	59	14409	45	16043	101
12010	220	12220	220	14137	93	14205	46	14414	45	16044	101
12011	220	12259	226	14138	93	14208	46	14415	45	16045	101
12012	220	12260	226	14139	93	14235	220	14418	45	16050	101
12013	223	12264	221	14141	92	14236	220	14419	45	16051	101
12016	220	12265	221	14142	92	14237	220	14422	45	16052	101
12017	220	12268	221	14143	92	14240	219	14423	45	16053	101
12024	218	12269	235	14145	92	14242	219	14430	45	16054	101



Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
16055	101	16213	100	16348	100	16905	100	18050	90	18153	90
16060	101	16214	100	16350	100	16907	100	18051	90	18156	90
16061	101	16221	100	16402	100	16914	100	18052	90	18158	90
16062	101	16222	100	16404	100	16920	100	18053	90	18162	90
16063	101	16223	100	16406	100	16922	100	18054	90	18164	90
16064	101	16224	100	16422	100	16924	100	18056	90	18168	90
16065	101	16225	100	16424	100	16925	100	18060	91	18170	90
16066	101	16226	100	16426	100	16930	100	18061	91	18174	90
16070	101	16228	100	16442	100	16936	100	18062	91	18175	90
16071	101	16241	100	16446	100	16938	100	18063	91	18176	90
16072	101	16242	100	16462	100	16940	100	18070	91	18177	90
16073	101	16243	100	16464	100	16941	100	18071	91	18178	90
16074	101	16244	100	16466	100	16944	100	18074	91	18180	90
16075	101	16245	100	16468	100	16946	100	18075	91	18181	90
16076	101	16246	100	16470	100	17000	241	18080	91	18183	91
16080	101	16248	100	16472	100	17004	160	18081	91	18184	91
16081	101	16250	100	16474	100	17006	155	18082	91	18185	91
16082	101	16252	100	16476	100	17008	157	18083	91	18187	91
16083	101	16254	100	16482	100	17010	155	18084	91	18188	91
16084	101	16256	100	16484	100	17012	163	18085	91	18189	91
16085	101	16258	100	16486	100	17016	158	18086	91	18190	92
16086	101	16262	100	16488	100	17020	162	18087	91	18191	92
16100	101	16263	100	16490	100	17022	160	18090	91	18192	92
16101	101	16264	100	16492	100	17024	161	18091	91	18193	92
16102	101	16265	100	16518	100	17026	160	18092	91	18194	92
16103	101	16266	100	16520	100	17028	159	18093	91	18195	92
16104	101	16268	100	16522	100	17030	155	18094	91	18196	92
16110	101	16273	100	16536	100	17032	160	18095	91	18197	92
16111	101	16281	100	16538	100	17034	161	18096	91	18198	92
16112	101	16282	100	16540	100	17036	159	18097	91	18199	92
16113	101	16283	100	16542	100	17038	159	18098	92	18200	92
16114	101	16284	100	16546	100	17048	101	18099	92	18201	205
16115	101	16285	100	16550	99	17120	103	18101	90	18202	92
16116	101	16286	100	16552	99	17121	103	18103	90	18203	205
16120	101	16287	100	16553	99	18000	90	18105	90	18204	205
16121	101	16288	100	16554	99	18001	90	18107	90	18206	206
16122	101	16289	100	16555	99	18002	90	18109	90	18207	206
16123	101	16290	100	16731	100	18003	90	18110	91	18209	206
16124	101	16291	100	16732	100	18004	90	18114	90	18210	206
16125	101	16292	100	16734	100	18005	90	18116	90	18212	206
16126	101	16293	100	16736	100	18006	90	18120	90	18215	92
16133	101	16294	100	16741	100	18010	90	18122	90	18216	98
16150	101	16296	100	16742	100	18011	90	18126	90	18220	206
16151	101	16298	100	16744	100	18012	90	18128	90	18221	206
16152	101	16316	100	16746	100	18013	90	18132	90	18222	207
16153	101	16318	100	16751	100	18014	90	18134	90	18223	207
16154	101	16320	100	16752	100	18015	90	18135	90	18224	207
16201	100	16321	100	16754	100	18016	90	18136	90	18225	206
16202	100	16322	100	16756	100	18020	90	18137	90	18226	207
16203	100	16324	100	16762	100	18021	90	18138	90	18227	207
16204	100	16336	100	16764	100	18022	90	18139	90	18228	207
16205	100	16338	100	16766	100	18023	90	18141	90	18230	207
16206	100	16340	100	16772	100	18030	90	18143	90	18232	104
16208	100	16342	100	16774	100	18031	90	18145	90	18234	207
16210	100	16344	100	16776	100	18032	90	18147	90	18250	101
16211	100	16346	100	16902	100	18033	90	18149	90	18251	101
16212	100	16347	100	16903	100	18040	90	18151	90	18252	101





Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
18253	101	18322	105	18479	104	18552	40	18622	89	18760	102
18254	101	18323	105	18480	104	18553	99	18623	89	18762	102
18255	101	18325	127	18481	104	18554	99	18624	89	18764	102
18256	101	18326	58	18482	104	18555	101	18626	89	18766	102
18257	101	18327	58	18484	104	18556	101	18628	98	18785	102
18258	101	18330	121	18487	104	18557	101	18629	98	18786	102
18259	101	18334	121	18488	104	18558	99	18630	98	18787	102
18260	101	18338	121	18489	104	18559	99	18631	98	18790	197
18261	101	18342	121	18491	104	18560	99	18632	98	18792	197
18262	101	18344	105	18496	14	18561	99	18633	98	18800	102
18263	101	18345	105	18497	14	18564	99	18634	98	18802	102
18264	101	18347	105	18498	14	18565	102	18635	98	18804	102
18266	101	18349	105	18499	14	18566	102	18638	98	18806	102
18274	101	18350	105	18500	104	18567	102	18639	98	18808	102
18275	101	18351	105	18501	104	18568	102	18654	99	18810	102
18276	101	18352	105	18502	104	18570	102	18655	99	18812	102
18277	101	18353	105	18503	104	18571	102	18656	99	18814	102
18278	101	18354	105	18504	104	18572	102	18658	98	18816	102
18279	101	18355	105	18506	104	18574	102	18659	98	18818	102
18280	101	18360	120	18507	104	18576	102	18660	98	18820	102
18281	101	18362	120	18508	104	18578	102	18661	98	18822	102
18282	101	18363	120	18509	104	18580	102	18662	98	18824	102
18283	101	18364	120	18510	104	18582	102	18663	98	18826	102
18286	101	18365	120	18511	104	18584	102	18664	98	18828	102
18287	101	18366	120	18512	104	18585	102	18665	98	18830	102
18288	101	18367	120	18513	104	18586	102	18680	98	18832	102
18289	101	18368	120	18514	104	18587	102	18681	98	18834	102
18290	101	18430	15	18515	104	18588	102	18682	98	18836	102
18291	101	18431	15	18516	104	18589	102	18683	98	18838	102
18292	101	18432	15	18517	15	18590	102	18684	98	18840	99
18293	101	18433	15	18518	15	18592	102	18685	98	18841	99
18294	101	18434	15	18519	15	18594	102	18686	98	18845	99
18295	101	18435	15	18520	14	18595	102	18687	98	18846	99
18296	101	18436	15	18521	14	18596	102	18688	98	18847	99
18297	101	18437	15	18522	15	18597	102	18689	98	18848	99
18298	101	18438	15	18523	15	18598	102	18690	98	18849	99
18299	101	18439	15	18524	104	18599	102	18691	98	18850	99
18300	105	18440	192	18525	104	18600	170	18692	98	18851	99
18301	105	18442	105	18526	104	18601	170	18693	98	18852	99
18302	105	18444	105	18527	104	18602	170	18694	98	18853	99
18303	105	18446	105	18530	17	18603	170	18695	98	18854	99
18304	105	18448	105	18531	17	18604	170	18696	98	18985	97
18305	105	18452	105	18532	17	18605	170	18697	98	18986	97
18306	105	18454	105	18533	17	18606	170	18698	98	18990	94
18307	105	18460	104	18534	17	18607	170	18699	98	18991	94
18308	105	18461	105	18540	17	18608	170	18700	102	18992	94
18309	105	18462	104	18541	17	18610	102	18702	102	18993	94
18310	105	18463	105	18542	17	18611	102	18706	102	18996	94
18311	105	18468	105	18543	17	18612	102	18708	102	18997	94
18312	105	18470	15	18544	17	18613	102	18712	102	18998	94
18313	105	18471	15	18546	40	18615	102	18714	102	18999	94
18314	105	18472	104	18547	99	18617	102	18716	102	19000	94
18315	105	18473	104	18548	99	18618	102	18740	102	19001	94
18317	105	18476	104	18549	40	18619	102	18742	102	19002	94
18320	105	18477	104	18550	40	18620	89	18744	102	19003	94
18321	105	18478	104	18551	40	18621	89	18746	102	19004	94



Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
19005	94	19145	94	19252	94	19361	96	22032	37	22132	36
19006	94	19152	95	19256	94	19362	96	22040	37	22133	36
19008	94	19153	95	19257	94	19363	96	22042	37	22134	36
19010	94	19154	95	19258	94	19364	96	22044	37	22135	36
19012	94	19155	95	19259	94	19365	96	22045	37	22136	36
19046	94	19162	95	19260	94	19366	96	22046	37	22137	36
19048	94	19163	95	19261	94	19367	96	22050	37	22138	36
19050	94	19164	95	19262	94	19380	96	22054	37	22139	36
19052	94	19165	95	19263	94	19382	96	22060	37	22140	36
19056	94	19168	95	19266	94	19384	96	22061	37	22141	36
19058	94	19169	95	19267	94	19386	96	22062	37	22144	36
19060	94	19170	95	19268	94	19390	96	22063	37	22145	36
19062	94	19171	95	19269	94	19392	96	22064	37	22146	36
19064	94	19172	95	19270	94	19394	96	22070	37	22147	36
19066	94	19173	95	19271	94	19396	96	22072	37	22148	36
19068	94	19176	95	19272	94	19400	207	22079	37	22149	36
19070	94	19177	95	19273	94	19401	207	22080	37	22150	38
19071	95	19178	95	19274	94	19402	207	22082	37	22151	38
19072	95	19179	95	19275	94	19403	207	22084	37	22152	38
19073	95	19180	95	19276	95	19405	207	22085	38	22154	38
19074	95	19181	95	19277	95	19406	207	22086	37	22155	38
19075	95	19186	94	19278	95	19407	207	22090	37	22156	38
19076	95	19188	94	19279	95	19408	207	22093	37	22157	38
19077	95	19190	94	19280	95	19410	95	22095	32	22158	38
19078	95	19192	94	19281	95	19420	99	22096	31	22160	36
19098	94	19200	94	19282	95	19422	99	22097	31	22163	36
19099	94	19202	94	19283	95	19430	97	22098	31	22164	36
19100	94	19210	94	19284	95	19431	97	22099	32	22169	36
19101	94	19211	95	19285	95	19432	97	22100	32	22175	36
19102	94	19212	94	19286	95	19433	97	22101	32	22182	36
19103	94	19213	95	19287	95	19434	97	22102	32	22183	36
19110	94	19214	95	19288	95	19435	97	22103	32	22184	36
19112	94	19215	95	19289	95	19450	206	22104	31	22190	167
19113	94	19216	95	19290	95	19452	206	22105	32	22191	167
19114	94	19218	95	19291	95	19453	206	22106	32	22192	40
19115	94	19220	95	19292	95	19454	206	22107	32	22194	40
19116	94	19221	95	19293	95	19455	206	22108	34	22196	40
19117	94	19222	95	19294	95	19456	206	22109	32	22199	40
19118	94	19223	95	19295	95	19457	206	22110	33	22200	9
19128	94	19224	95	19296	96	19460	206	22111	34	22201	9
19129	94	19225	95	19298	96	19461	206	22112	34	22202	9
19130	94	19226	95	19300	96	19462	206	22113	31	22203	9
19131	94	19227	95	19302	96	19463	206	22114	33	22204	9
19132	94	19228	95	19310	96	19465	206	22115	33	22205	9
19133	94	19229	95	19312	96	19467	206	22116	33	22206	9
19134	94	19230	95	19320	96	22000	37	22117	36	22207	9
19135	94	19231	95	19322	96	22005	37	22118	33	22208	9
19136	94	19232	95	19330	97	22010	37	22119	34	22209	9
19137	94	19233	95	19332	96	22012	37	22120	36	22210	9
19138	94	19236	94	19336	96	22015	37	22122	33	22211	9
19139	94	19238	94	19338	96	22017	37	22124	36	22212	9
19140	94	19240	94	19340	96	22020	37	22126	33	22213	9
19141	94	19241	94	19342	96	22022	37	22127	36	22214	9
19142	94	19242	94	19350	96	22024	37	22128	36	22215	9
19143	94	19243	94	19352	96	22026	37	22129	36	22216	9
19144	94	19250	94	19360	96	22030	37	22130	36	22217	9



NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
22218	9	22315	27	22427	10	22610	31	23066	30	23243	16
22219	9	22320	27	22430	10	22620	31	23067	30	23245	16
22220	10	22322	29	22431	10	22621	31	23068	11	23246	13
22222	10	22326	27	22432	10	22622	31	23073	30	23248	13
22223	10	22328	27	22440	10	22623	31	23075	12	23249	13
22224	10	22329	27	22441	10	22628	31	23080	12	23250	17
22226	10	22333	26	22442	10	22630	31	23088	12	23251	17
22228	10	22336	26	22460	10	22640	31	23100	205	23255	17
22230	9	22337	26	22461	10	22641	34	23101	204	23256	17
22231	10	22343	26	22462	10	22642	31	23102	204	23260	15
22232	10	22344	26	22464	10	22643	34	23105	11	23266	13
22233	9	22350	27	22465	10	22645	34	23106	11	23267	13
22234	9	22352	27	22466	10	22650	31	23107	11	23268	13
22236	9	22365	28	22470	10	22652	34	23110	12	23269	13
22237	9	22366	28	22471	10	22653	34	23112	12	23270	13
22238	9	22367	28	22480	9	22654	34	23113	12	23272	13
22240	9	22369	28	22482	9	22670	33	23115	205	23274	13
22242	9	22370	28	22484	9	22675	33	23116	205	23278	30
22243	9	22371	27	22486	9	22678	32	23117	205	23280	13
22244	9	22372	27	22488	9	22680	32	23120	12	23282	13
22245	9	22373	29	22500	37	22682	32	23122	16	23284	13
22246	10	22374	45	22504	37	22684	32	23124	11	23288	13
22248	10	22375	26	22508	37	22960	17	23125	17	23291	13
22250	38	22376	27	22509	37	22961	17	23126	17	23292	13
22251	38	22377	26	22512	37	22973	17	23127	17	23293	13
22253	38	22378	29	22513	37	22992	17	23128	17	23297	13
22254	38	22379	26	22518	37	22999	17	23130	11	23300	15
22255	38	22380	26	22519	37	23010	28	23131	11	23301	15
22256	38	22381	26	22522	37	23011	28	23132	11	23302	15
22257	38	22382	26	22523	37	23014	28	23133	11	23304	15
22258	38	22384	26	22526	37	23015	29	23135	11	23305	15
22260	10	22385	26	22527	37	23016	29	23138	11	23306	15
22262	10	22386	26	22530	37	23017	29	23140	11	25900	6
22265	10	22388	26	22531	37	23019	12	23141	11	25901	6
22267	10	22389	26	22534	37	23020	12	23142	11	25902	6
22268	10	22390	34	22535	37	23021	12	23170	16	25903	6
22270	10	22391	34	22538	37	23022	17	23171	16	25904	6
22272	10	22392	34	22539	37	23023	17	23180	16	25905	6
22273	10	22393	26	22542	37	23030	28	23181	16	25906	6
22276	10	22394	26	22543	37	23031	28	23215	16	25907	6
22277	10	22395	26	22546	37	23032	28	23220	158	25910	6
22280	40	22396	26	22547	37	23033	28	23221	158	25911	6
22281	40	22400	10	22548	37	23034	28	23222	158	25912	6
22282	40	22401	10	22549	37	23035	28	23223	158	25913	6
22283	40	22402	10	22550	37	23038	28	23224	154	25914	6
22284	40	22405	10	22551	37	23040	29	23225	154	25915	6
22285	40	22406	10	22554	37	23041	29	23226	154	25916	6
22286	40	22407	10	22555	37	23042	29	23228	78	25917	6
22287	40	22410	10	22558	37	23043	29	23229	78	25920	6
22290	40	22411	10	22559	37	23044	29	23230	13	25921	6
22291	40	22412	10	22600	31	23045	29	23232	13	25922	6
22292	40	22420	10	22601	31	23046	29	23233	13	25923	6
22294	40	22421	10	22602	31	23047	29	23235	13	25924	6
22300	26	22422	10	22603	31	23048	29	23237	13	25925	6
22311	30	22425	10	22604	31	23058	29	23240	16	25926	6
22312	30	22426	10	22608	31	23064	30	23242	16	25927	6





Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
25940	6	26055	7	26156	124	26700	237	30037	50	30131	53
25941	6	26056	7	26157	124	26702	237	30038	50	30132	53
25942	6	26057	7	26158	124	26704	237	30039	50	30133	53
25943	6	26058	7	26159	124	26706	237	30040	50	30134	53
25944	6	26059	126	26164	124	26708	237	30041	50	30136	53
25945	6	26060	126	26165	124	26800	238	30042	50	30139	53
25946	6	26061	126	26166	124	26801	238	30043	50	30142	79
25947	6	26062	126	26167	124	26805	238	30044	51	30143	79
25950	7	26063	126	26168	124	26806	238	30045	50	30144	79
25951	7	26064	126	26169	124	26810	238	30046	50	30145	78
25954	7	26065	126	26170	82	26815	238	30047	50	30146	78
25955	7	26066	126	26171	82	26820	238	30048	50	30158	51
25956	7	26067	126	26172	82	26825	238	30060	53	30160	51
25957	7	26068	126	26176	82	26830	238	30061	53	30163	51
25970	126	26069	126	26177	82	26831	238	30062	53	30165	158
25972	126	26077	7	26179	126	26835	238	30063	53	30166	158
25973	126	26081	6	26180	126	26836	238	30064	53	30170	57
25975	126	26084	6	26181	126	26840	238	30070	53	30171	57
25977	126	26085	6	26182	126	26845	238	30072	53	30172	57
25980	125	26086	6	26183	126	26890	238	30074	53	30173	57
25981	125	26087	6	26184	126	26900	238	30076	53	30174	57
25982	125	26088	6	26185	126	26902	238	30079	54	30178	59
25983	125	26090	6	26186	126	26904	238	30085	51	30179	59
25984	125	26091	6	26187	126	26906	238	30091	54	30180	54
25986	125	26092	6	26188	126	26908	238	30092	54	30182	54
25990	125	26094	6	26189	126	26950	239	30093	54	30183	54
25991	125	26095	6	26190	126	26952	239	30094	54	30184	54
25992	125	26097	6	26200	215	26960	103	30095	54	30186	54
25993	125	26098	6	26210	82	26961	103	30096	54	30188	54
25994	125	26099	6	26211	82	26962	103	30097	54	30190	54
25996	125	26100	7	26212	75	26963	103	30099	54	30192	54
26000	8	26101	7	26216	75	27500	73	30100	54	30200	121
26002	8	26104	7	26217	75	27502	73	30101	54	30202	121
26004	8	26106	6	26220	8	27503	73	30102	54	30204	121
26006	8	26112	238	26221	8	27504	73	30103	54	30206	121
26010	8	26114	238	26222	8	27505	73	30104	54	30208	121
26014	7	26115	214	26224	8	30001	52	30105	54	30210	121
26015	7	26120	76	26225	8	30002	218	30106	54	30212	121
26020	8	26121	238	26227	83	30005	52	30107	54	30214	121
26021	8	26125	76	26228	83	30006	52	30108	54	30220	121
26022	8	26126	76	26230	8	30007	52	30109	54	30222	121
26023	8	26127	76	26232	83	30010	50	30110	54	30224	121
26028	8	26132	76	26234	85	30011	50	30111	54	30226	121
26029	8	26133	76	26236	68	30012	50	30112	54	30228	121
26030	8	26134	76	26240	76	30014	50	30114	54	30240	58
26040	215	26135	76	26241	76	30016	50	30115	54	30241	58
26041	215	26137	82	26310	125	30020	50	30116	54	30242	58
26042	215	26139	82	26311	125	30021	50	30120	50	30250	121
26043	215	26143	82	26313	125	30022	50	30121	50	30251	121
26044	215	26145	82	26314	125	30024	50	30122	50	30252	121
26045	7	26147	82	26315	125	30026	50	30123	50	30253	121
26046	7	26150	124	26316	125	30028	154	30124	53	30254	121
26047	7	26151	124	26320	82	30030	154	30125	53	30255	121
26048	7	26152	124	26322	82	30033	50	30126	53	30256	121
26053	7	26153	124	26324	126	30035	50	30129	53	30257	121
26054	7	26154	124	26326	126	30036	50	30130	53	30258	121



NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
30260	58	31085	56	34250	86	36150	59	38118	154	40197	123
30270	57	31090	56	34251	86	36151	59	38119	154	40198	123
30271	57	31092	56	34252	86	36154	59	38120	87	40199	123
30272	57	31093	56	34253	86	36155	59	38121	87	40200	130
30273	57	31094	56	34254	86	36160	109	38122	87	40201	130
30300	52	31095	56	34255	86	36161	109	38124	87	40203	130
30301	52	31100	55	34256	86	36164	109	38126	154	40208	123
30302	52	31105	55	34257	86	36165	109	38128	154	40210	123
30304	52	31106	55	34262	93	36166	109	38130	154	40213	130
30306	52	31120	57	34264	93	36167	109	38132	87	40215	130
30308	52	31122	55	34266	86	36168	109	38142	87	40216	123
30310	52	31130	57	34272	74	36169	109	38143	87	40217	123
30333	50	31135	57	34273	74	36170	109	38145	154	40218	123
30335	50	31136	57	34274	74	36171	109	38150	239	40219	123
30336	50	31137	57	34275	74	36172	109	38152	239	40220	123
30337	50	31138	57	34280	60	36173	109	38200	89	40221	123
30343	50	31139	57	34282	60	36174	109	38250	89	40222	123
30345	50	31140	57	34284	60	36175	109	38251	89	40227	123
30346	50	31150	57	34285	60	36176	109	40090	216	40228	123
30347	50	31151	57	34286	60	36177	109	40091	216	40229	123
30370	57	31152	57	34290	60	36180	109	40100	215	40230	123
30371	57	31153	57	34292	60	36181	109	40102	215	40232	123
30372	57	31154	57	34294	60	36182	109	40104	215	40235	123
30373	57	31159	57	34295	60	36183	109	40107	215	40238	123
30375	57	31160	57	34296	60	36202	83	40112	235	40239	123
30376	57	31170	55	36092	154	36203	83	40114	216	40240	123
30377	57	34145	86	36093	154	36204	83	40116	216	40242	123
30380	57	34146	86	36103	143	36205	83	40117	216	40243	123
30381	57	34150	86	36106	143	36208	83	40118	216	40244	123
30382	57	34152	86	36107	143	36212	143	40119	216	40245	123
31020	56	34153	86	36108	79	36213	143	40120	215	40246	123
31022	56	34180	86	36109	79	36216	143	40121	215	40250	123
31024	56	34181	86	36110	143	36217	143	40122	215	40251	123
31026	56	34182	86	36111	143	38060	88	40123	215	40254	79
31028	56	34183	86	36112	59	38061	88	40124	215	40255	79
31030	55	34212	85	36115	59	38064	88	40126	215	40256	122
31031	56	34213	85	36116	59	38065	88	40127	215	40257	122
31032	56	34214	85	36117	79	38070	239	40128	215	40258	122
31033	56	34215	85	36120	165	38072	45	40129	215	40260	122
31034	56	34217	85	36121	165	38080	88	40133	130	40261	122
31035	56	34218	85	36122	165	38082	88	40134	130	40262	122
31036	56	34219	85	36123	165	38084	88	40136	130	40266	122
31037	56	34220	86	36124	143	38085	88	40137	130	40267	122
31038	56	34230	86	36125	165	38090	89	40160	130	40290	122
31040	55	34231	86	36126	165	38098	88	40161	130	40300	79
31050	55	34232	86	36130	165	38100	88	40162	130	40301	79
31064	55	34233	86	36132	165	38101	88	40168	130	40302	79
31066	55	34238	86	36134	143	38102	88	40170	130	40303	79
31070	55	34240	86	36136	165	38108	88	40180	118	40304	79
31071	55	34241	86	36137	165	38109	88	40185	118	40305	79
31072	55	34242	86	36140	143	38110	88	40186	118	40306	79
31073	55	34243	86	36141	143	38112	88	40190	123	40307	79
31080	56	34244	86	36142	143	38113	88	40191	123	40320	122
31082	56	34245	86	36145	143	38114	89	40192	123	40322	122
31083	56	34246	86	36147	237	38115	89	40193	123	40325	155
31084	56	34247	86	36148	143	38116	89	40196	123	40327	155



Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
40340	118	42040	19	42134	20	44112	242	44210	243	46301	112
40341	118	42041	19	42135	172	44113	242	44211	243	46302	112
40342	118	42042	19	42136	172	44114	242	44212	243	46304	112
40343	118	42043	19	42137	20	44115	242	44214	243	46310	114
40350	118	42046	23	42140	22	44116	242	44215	243	46312	114
40351	118	42052	115	42141	22	44117	242	44216	243	46332	114
40353	118	42053	115	42142	22	44119	242	44217	243	46340	114
40354	118	42054	115	42143	22	44120	243	44218	243	46341	114
40356	118	42056	115	42144	22	44121	243	44219	243	46400	112
40357	118	42057	115	42150	22	44122	243	44220	231	46401	112
41005	23	42058	115	42151	22	44123	243	44221	231	46402	112
41006	23	42060	115	42152	22	44124	243	44222	231	46404	112
41007	23	42061	115	42154	22	44125	243	44223	231	46420	114
41008	23	42062	115	42155	22	44126	243	44224	231	46440	114
41009	23	42070	25	42160	22	44127	243	44225	240	48000	159
41012	23	42071	25	42180	20	44128	243	44226	240	48002	159
41013	23	42072	25	42181	20	44129	243	44228	240	48004	159
41014	23	42073	25	42185	20	44130	132	44229	240	48006	159
41015	23	42074	25	42186	20	44131	132	44230	240	48010	25
41026	23	42077	25	44026	229	44134	247	44231	240	48011	25
41027	23	42078	25	44027	229	44135	247	44232	240	48012	25
41028	23	42079	19	44028	229	44136	247	44233	240	48013	25
41031	156	42080	19	44030	225	44137	247	44235	240	48014	25
41032	156	42081	19	44032	225	44138	247	44236	240	48017	25
41033	156	42082	19	44034	226	44139	247	44237	240	48018	117
41040	24	42083	19	44036	229	44140	241	44238	240	48019	117
41042	24	42084	19	44037	229	44141	241	44239	240	48020	117
41043	24	42086	18	44045	241	44142	241	44240	240	48021	117
41044	24	42087	18	44046	226	44143	241	44242	240	48022	117
41045	24	42088	18	44047	226	44144	241	44243	240	48023	117
41046	24	42089	18	44048	226	44145	241	44245	240	48025	24
41048	24	42090	18	44053	247	44150	241	44255	245	48026	117
41049	24	42091	18	44056	226	44151	241	44256	245	48027	117
41050	22	42094	18	44057	226	44152	241	44257	245	48028	117
41051	22	42095	18	44058	226	44153	241	44265	240	48030	117
41060	23	42100	20	44060	247	44165	218	44266	240	48032	117
41061	23	42101	20	44061	247	44168	241	44267	241	48033	117
41062	23	42102	20	44062	247	44170	241	44268	241	48034	117
41064	23	42103	20	44063	247	44171	241	44270	241	48035	117
42000	19	42104	20	44065	247	44175	241	44271	241	48036	117
42001	19	42105	20	44066	247	44176	241	44272	241	48037	24
42004	19	42108	20	44067	247	44178	241	44280	240	48038	24
42005	19	42109	20	44076	226	44179	240	44281	240	48040	116
42010	19	42110	20	44077	226	44180	229	44282	240	48048	116
42011	18	42111	20	44096	242	44181	229	44283	240	48050	116
42019	21	42112	22	44097	242	44182	229	44285	240	48052	116
42024	21	42113	22	44098	242	44183	229	44286	240	48054	116
42025	111	42116	22	44100	242	44186	229	44287	240	48056	116
42026	19	42117	22	44101	242	44187	229	44288	240	48058	116
42027	111	42118	20	44102	242	44188	229	44289	240	48060	116
42029	21	42119	20	44106	242	44189	229	44290	240	48062	116
42030	21	42120	19	44107	242	44190	241	46100	115	48200	165
42032	111	42128	19	44108	242	44196	229	46101	115	48201	165
42033	111	42129	19	44109	242	44197	229	46102	237	48204	165
42036	19	42130	172	44110	242	44198	229	46110	115	48205	165
42039	19	42133	20	44111	242	44200	243	46300	112	48210	165





NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
48211	165	48354	113	48419	113	49382	106	49512	107	49606	107
48212	165	48355	113	48420	113	49383	106	49513	107	49610	107
48214	165	48356	113	48422	113	49384	106	49514	107	49611	107
48215	165	48358	113	48423	113	49385	106	49517	107	49612	107
48217	165	48359	113	48424	113	49386	106	49518	107	49613	107
48240	164	48360	113	48425	113	49411	106	49519	107	49614	107
48242	164	48361	113	48426	113	49412	106	49520	107	49615	107
48245	164	48362	113	48427	113	49413	106	49521	107	49616	107
48246	164	48363	113	48430	113	49414	106	49532	107	49620	107
48247	164	48364	113	48434	113	49415	106	49535	107	49621	107
48250	164	48365	113	48435	113	49416	106	49536	107	49622	107
48251	164	48366	113	48440	113	49422	106	49537	107	49623	107
48252	164	48367	113	48444	113	49423	106	49538	107	49624	107
48253	164	48368	113	48445	113	49424	106	49539	107	49625	107
48260	157	48369	113	48465	113	49425	106	49540	107	49626	107
48261	157	48370	113	48466	113	49426	106	49541	107	49630	108
48262	157	48371	113	48500	164	49431	106	49542	107	49631	108
48263	157	48372	113	48501	164	49432	106	49543	107	49632	108
48270	165	48373	113	48502	164	49433	106	49544	107	49633	108
48271	165	48374	113	48503	164	49434	106	49547	107	49634	108
48272	165	48375	113	48505	164	49435	106	49548	107	49640	108
48273	165	48376	113	48507	164	49436	106	49549	107	49641	108
48275	165	48378	113	48508	164	49442	106	49550	107	49642	108
48276	165	48379	113	49312	106	49443	106	49551	107	49643	108
48277	165	48380	113	49313	106	49444	106	49562	107	49644	108
48278	165	48381	113	49314	106	49445	106	49565	107	49645	108
48279	165	48382	113	49315	106	49446	106	49566	107	49646	108
48300	116	48383	113	49316	106	49451	106	49567	107	49650	108
48301	116	48384	113	49322	106	49452	106	49568	107	49651	108
48302	116	48385	113	49323	106	49453	106	49569	107	49652	108
48303	116	48386	113	49324	106	49454	106	49570	107	49653	108
48304	116	48387	113	49325	106	49455	106	49571	107	49670	108
48305	116	48388	113	49326	106	49456	106	49572	107	49671	108
48306	116	48389	113	49332	106	49462	106	49573	107	49672	108
48307	116	48390	113	49333	106	49463	106	49574	107	49673	108
48308	116	48392	113	49334	106	49464	106	49577	107	49674	108
48310	116	48393	113	49335	106	49465	106	49578	107	49675	108
48311	116	48394	113	49336	106	49466	106	49579	107	49676	108
48312	116	48398	113	49342	106	49472	106	49580	107	49680	108
48313	116	48399	113	49343	106	49473	106	49581	107	49681	108
48314	116	48400	113	49344	106	49474	106	49584	107	49682	108
48315	116	48401	113	49345	106	49475	106	49585	107	49683	108
48316	116	48402	113	49346	106	49476	106	49587	107	49684	108
48317	116	48403	113	49352	106	49482	106	49588	107	49685	108
48318	116	48404	113	49353	106	49483	106	49589	107	49686	108
48322	116	48405	113	49354	106	49484	106	49590	107	49700	107
48326	116	48407	113	49355	106	49485	106	49591	107	49701	107
48327	116	48408	113	49356	106	49486	106	49592	107	49702	107
48328	116	48409	113	49362	106	49502	107	49596	107	49703	107
48330	116	48410	113	49363	106	49505	107	49599	107	49704	107
48332	116	48413	113	49364	106	49506	107	49600	107	49705	107
48349	113	48414	113	49365	106	49507	107	49601	107	49706	107
48350	113	48415	113	49372	106	49508	107	49602	107	49710	107
48351	113	48416	113	49373	106	49509	107	49603	107	49711	107
48352	113	48417	113	49374	106	49510	107	49604	107	49712	107
48353	113	48418	113	49375	106	49511	107	49605	107	49713	107



Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
49714	107	49803	108	50067	110	50184	110	50782	109	52102	165
49715	107	49804	108	50068	110	50185	110	50783	109	52113	157
49716	107	49805	108	50070	110	50199	108	50784	109	52114	157
49720	107	49811	108	50072	110	50200	108	50785	109	52115	157
49721	107	49812	108	50076	110	50201	108	50800	214	52116	157
49722	107	49813	108	50077	110	50202	108	50801	214	52120	167
49723	107	49814	108	50080	110	50203	59	50802	214	52122	167
49724	107	49820	108	50082	110	50204	59	50803	214	52124	167
49725	107	49821	108	50090	114	50212	113	50804	214	52126	167
49730	107	49822	108	50091	114	50213	113	50805	214	52128	167
49731	107	49830	109	50092	114	50215	113	50806	214	52130	167
49732	107	49831	109	50093	114	50250	19	50807	214	52132	167
49733	107	49832	109	50094	114	50251	19	50808	214	52133	167
49734	107	49833	109	50095	114	50300	116	50810	214	52140	167
49735	107	49834	109	50096	114	50310	116	50811	214	52142	167
49736	107	49836	109	50097	114	50320	108	50812	214	52144	167
49737	107	49837	109	50098	114	50321	108	50813	214	52145	167
49738	107	49838	109	50099	114	50322	108	50814	214	52146	167
49739	107	49839	109	50100	111	50323	108	50815	214	52148	167
49740	107	49841	109	50101	111	50324	108	50816	214	52170	167
49741	107	49842	109	50102	111	50330	108	50817	214	52171	167
49742	107	49843	109	50103	111	50331	108	50818	214	52172	167
49743	107	49844	109	50104	111	50332	108	50820	214	52175	167
49744	107	49845	109	50105	111	50333	108	50821	214	52176	167
49745	107	49847	109	50108	114	50334	108	50822	214	52177	167
49746	107	49848	109	50109	114	50732	109	50823	214	52178	167
49747	107	49849	109	50110	116	50733	109	50824	214	52179	167
49748	107	49850	109	50111	116	50734	109	50825	214	52302	166
49749	107	49852	109	50113	116	50735	109	50826	214	52303	166
49750	107	49853	109	50114	116	50740	109	50827	214	52304	166
49751	107	49854	109	50115	116	50741	109	50830	214	52305	166
49752	107	49855	109	50116	116	50742	109	50831	214	52306	166
49753	107	49857	109	50117	116	50743	109	50832	214	52307	166
49754	107	49858	109	50118	116	50744	109	50833	214	52308	166
49755	107	49859	54	50119	116	50745	109	50834	214	52309	166
49756	107	50000	110	50120	111	50750	109	50835	214	52310	166
49760	108	50001	110	50121	111	50751	109	50836	214	52312	166
49761	108	50004	110	50125	111	50752	109	50837	214	52314	166
49762	108	50010	110	50127	111	50753	109	50855	111	52316	166
49763	108	50011	110	50129	111	50754	109	50890	124	52318	166
49765	108	50018	110	50130	111	50760	109	50892	124	52319	166
49770	108	50019	110	50131	111	50761	109	50894	124	52320	148
49771	108	50020	110	50132	111	50762	109	50896	124	52322	148
49772	108	50021	110	50133	111	50763	109	50900	124	52345	169
49773	108	50029	110	50135	111	50764	109	50901	124	52350	170
49774	108	50030	110	50136	111	50765	109	50902	124	52351	170
49775	108	50032	110	50137	111	50766	109	50904	124	52352	170
49776	108	50035	110	50138	110	50770	109	50905	124	54050	22
49777	108	50036	110	50139	110	50771	109	50906	124	54060	22
49778	108	50037	110	50140	116	50772	109	50907	124	54070	33
49780	108	50040	110	50142	116	50773	109	50910	124	54071	33
49781	108	50060	110	50143	116	50774	109	50915	122	54072	33
49785	108	50061	110	50150	111	50775	109	50916	122	54090	129
49800	108	50062	110	50180	111	50776	109	50950	124	54091	129
49801	108	50063	110	50182	110	50780	109	50951	124	54092	129
49802	108	50066	110	50183	111	50781	109	52100	165	54094	156



NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
54095	156	54200	127	55039	162	55140	161	55998	171	56094	180
54098	129	54201	127	55040	162	55150	161	55999	171	56095	180
54099	129	54202	127	55042	162	55160	161	56008	174	56097	181
54100	129	54203	127	55044	162	55170	160	56009	174	56098	180
54101	129	54210	127	55046	162	55171	160	56010	174	56099	180
54102	129	54211	127	55050	162	55220	155	56011	174	56100	182
54104	129	54214	127	55051	162	55224	155	56012	174	56103	182
54105	129	54215	127	55052	162	55226	155	56014	174	56106	180
54107	129	54218	127	55054	162	55230	157	56015	174	56107	180
54108	236	54219	127	55055	162	55232	157	56018	174	56109	180
54112	236	54222	127	55056	162	55900	169	56019	174	56110	180
54113	236	54223	127	55058	160	55901	169	56020	174	56111	180
54114	236	54224	127	55060	160	55902	169	56027	174	56112	180
54115	236	54225	127	55062	160	55903	169	56028	174	56113	181
54116	236	54226	127	55070	160	55904	169	56029	174	56114	181
54117	236	54227	127	55071	160	55910	169	56030	174	56115	181
54118	236	54230	127	55072	160	55911	169	56031	174	56116	181
54119	236	54231	127	55073	160	55912	169	56034	174	56117	181
54120	236	54234	127	55077	163	55920	169	56035	174	56118	181
54124	236	54235	127	55078	163	55921	169	56042	174	56119	181
54125	236	54238	127	55080	163	55922	169	56044	174	56120	181
54127	236	54239	127	55081	163	55930	169	56046	174	56121	181
54128	236	54240	127	55082	163	55931	169	56047	174	56123	203
54130	236	54241	127	55084	163	55932	160	56048	174	56124	203
54135	156	54276	127	55085	163	55933	160	56049	174	56125	181
54142	127	54277	127	55086	163	55960	171	56050	174	56126	203
54145	127	54278	127	55087	163	55961	171	56051	174	56127	203
54147	128	54279	127	55090	163	55962	171	56052	201	56130	203
54149	128	54280	122	55091	163	55963	171	56053	201	56131	203
54150	156	54282	122	55092	163	55964	171	56060	203	56132	203
54152	156	54284	122	55093	163	55965	171	56061	203	56133	203
54154	129	54286	122	55094	163	55966	171	56062	203	56134	203
54158	128	54288	122	55095	163	55967	171	56063	203	56136	203
54159	128	54290	122	55096	163	55970	171	56064	203	56138	203
54163	128	54292	122	55097	163	55971	171	56065	203	56141	190
54164	128	54298	122	55098	163	55972	171	56066	180	56142	190
54165	128	54302	13	55099	163	55973	171	56067	180	56143	190
54166	128	54304	13	55100	158	55974	171	56068	180	56153	190
54167	128	55000	161	55101	158	55976	172	56070	182	56154	190
54168	128	55002	161	55102	158	55977	172	56071	182	56155	190
54170	128	55004	161	55103	158	55978	172	56072	182	56156	190
54171	128	55005	161	55105	158	55979	172	56073	180	56161	192
54178	128	55010	161	55106	158	55980	172	56074	199	56162	192
54179	128	55012	161	55107	158	55981	171	56075	199	56186	180
54180	127	55014	161	55108	158	55982	171	56077	181	56187	180
54181	127	55016	161	55110	158	55983	171	56078	181	56192	177
54182	127	55020	161	55111	158	55988	172	56079	181	56194	177
54185	126	55022	161	55112	157	55989	172	56080	181	56196	180
54186	126	55024	161	55125	158	55990	171	56086	181	56197	180
54188	128	55027	161	55126	158	55991	171	56087	181	56198	177
54189	128	55028	161	55130	159	55992	171	56088	181	56199	177
54193	127	55030	160	55131	159	55993	171	56089	181	56204	173
54194	127	55032	160	55132	159	55994	171	56090	180	56206	173
54195	127	55034	161	55133	159	55995	171	56091	180	56208	173
54196	127	55036	161	55134	159	55996	171	56092	180	56210	173
54197	127	55038	162	55135	159	55997	171	56093	180	56212	173





Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
56214	173	56307	171	56385	182	56622	195	56842	175	57017	169
56216	173	56308	171	56386	182	56672	195	56845	175	57018	169
56217	173	56309	171	56387	182	56703	195	56846	175	57019	169
56218	173	56310	168	56388	182	56704	195	56850	175	57020	169
56220	173	56311	168	56389	182	56705	195	56851	175	57021	169
56221	179	56312	168	56390	192	56706	195	56852	175	57022	169
56222	179	56313	168	56391	192	56707	195	56871	175	57024	169
56223	179	56314	168	56392	192	56708	195	56872	175	57026	169
56224	179	56316	168	56393	192	56709	195	56875	175	57028	169
56225	176	56318	172	56394	192	56710	195	56876	175	57040	169
56226	179	56319	172	56395	192	56711	195	56878	175	57052	194
56227	178	56320	180	56405	195	56712	195	56879	175	57054	194
56228	178	56321	180	56406	195	56713	195	56880	175	57056	194
56229	178	56322	180	56407	195	56714	195	56881	175	57058	194
56230	178	56323	180	56408	195	56715	195	56882	175	57060	194
56232	178	56324	180	56409	195	56716	195	56885	175	57062	194
56233	178	56325	180	56410	195	56717	195	56886	175	57064	194
56234	178	56326	179	56411	195	56718	195	56890	175	57066	194
56235	178	56330	168	56412	195	56719	195	56892	175	57068	194
56236	178	56331	168	56413	195	56720	195	56900	175	57070	194
56238	178	56334	168	56414	195	56721	195	56904	175	57072	194
56240	178	56335	168	56415	195	56722	195	56905	175	57074	194
56242	178	56336	168	56416	195	56723	195	56906	175	57076	194
56244	178	56337	168	56417	195	56724	195	56910	175	57078	194
56245	202	56338	168	56418	195	56725	195	56915	175	57080	194
56247	202	56341	168	56472	195	56726	195	56916	175	57082	194
56248	202	56344	168	56512	195	56727	195	56917	175	57084	194
56250	176	56345	168	56513	195	56728	195	56918	175	57086	194
56251	176	56347	168	56514	195	56729	195	56919	175	57088	194
56252	176	56354	168	56515	195	56730	195	56920	175	57090	194
56253	176	56355	168	56516	195	56732	195	56925	175	57092	194
56256	179	56356	168	56517	195	56734	195	56926	175	57094	194
56260	176	56357	168	56518	195	56736	195	56927	175	57096	194
56261	176	56358	168	56519	195	56738	195	56935	175	57098	194
56262	176	56360	183	56520	195	56740	195	56936	175	57099	194
56264	176	56361	183	56521	195	56742	195	56937	175	57152	194
56265	176	56362	193	56522	195	56744	195	56938	175	57153	194
56266	176	56364	193	56523	195	56772	195	56939	175	57154	194
56267	176	56365	193	56524	195	56806	195	56940	175	57155	194
56270	176	56366	193	56525	195	56807	195	56955	175	57156	194
56271	176	56367	193	56572	195	56810	175	56956	175	57157	194
56272	176	56368	193	56607	195	56811	175	56957	175	57158	194
56273	176	56369	192	56608	195	56812	175	56958	175	57159	194
56274	176	56370	192	56609	195	56815	175	56959	175	57160	194
56275	176	56372	192	56610	195	56816	175	56960	175	57162	194
56276	176	56373	192	56611	195	56820	175	56965	175	57164	194
56278	170	56374	192	56612	195	56821	175	56975	175	57166	194
56280	170	56375	192	56613	195	56822	175	56980	175	57167	194
56284	170	56376	192	56614	195	56825	175	56985	175	57168	194
56286	170	56378	192	56615	195	56826	175	57008	169	57169	194
56288	170	56379	192	56616	195	56827	175	57010	169	57170	194
56296	177	56380	182	56617	195	56830	175	57012	169	57171	194
56298	177	56381	182	56618	195	56831	175	57013	169	57172	194
56303	171	56382	182	56619	195	56832	175	57014	169	57173	194
56304	171	56383	182	56620	195	56840	175	57015	169	57174	194
56305	171	56384	182	56621	195	56841	175	57016	169	57175	194

NUMERICAL INDEX



NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
57176	194	57372	194	57908	177	58012	103	60022	39	60085	34
57178	194	57374	194	57909	177	58013	103	60023	40	60086	39
57180	194	57376	194	57910	177	58014	103	60024	39	60087	39
57182	194	57378	194	57911	177	58015	103	60025	178	60088	39
57184	194	57380	194	57912	177	58016	103	60026	43	60089	42
57186	194	57382	194	57913	177	58018	103	60027	39	60090	39
57188	194	57384	194	57914	177	58020	103	60028	167	60091	39
57190	194	57444	194	57916	177	58022	103	60029	39	60092	39
57192	194	57446	194	57922	177	58034	103	60030	39	60093	114
57254	194	57448	194	57924	177	58035	103	60031	33	60094	182
57256	194	57450	194	57926	177	58036	103	60032	33	60095	182
57258	194	57452	194	57928	177	58038	103	60033	33	60096	186
57260	194	57454	194	57930	177	58040	103	60034	203	60097	186
57262	194	57456	194	57932	177	58042	103	60035	203	60098	186
57264	194	57458	194	57934	177	58058	103	60036	203	60099	186
57266	194	57460	194	57936	177	58059	103	60037	203	60100	42
57268	194	57462	194	57940	177	58060	103	60038	203	60101	42
57270	194	57464	194	57941	177	58062	103	60039	86	60103	42
57272	194	57466	194	57942	177	58068	103	60040	86	60104	42
57274	194	57468	194	57943	177	58069	103	60041	39	60106	42
57276	194	57470	194	57944	177	58070	103	60042	201	60107	42
57278	194	57472	194	57945	177	58072	103	60043	201	60108	103
57280	194	57474	194	57946	177	58078	103	60044	201	60110	200
57282	194	57476	194	57947	177	58079	103	60045	201	60111	200
57284	194	57478	194	57948	177	58080	103	60046	201	60112	42
57286	194	57480	194	57949	177	58082	103	60048	201	60113	42
57288	194	57482	194	57950	177	58083	103	60050	202	60114	42
57290	194	57484	194	57951	177	58084	103	60051	202	60115	42
57292	194	57800	179	57952	177	58085	103	60052	202	60126	200
57294	194	57801	179	57953	177	58086	103	60053	202	60134	200
57302	169	57802	179	57954	177	58088	103	60054	202	60135	200
57304	169	57803	179	57956	177	58089	103	60055	203	60136	200
57306	169	57804	179	57962	177	58098	103	60056	203	60138	200
57334	168	57805	179	57964	177	58099	103	60058	202	60140	200
57335	168	57806	179	57966	177	58112	103	60059	202	60141	200
57336	168	57807	179	57968	177	60000	39	60060	45	60144	199
57337	168	57808	179	57970	177	60001	39	60061	45	60145	199
57338	168	57809	179	57972	177	60002	39	60062	45	60146	199
57344	194	57810	180	57974	177	60003	39	60063	45	60147	199
57346	194	57811	180	57976	177	60004	39	60064	69	60148	192
57348	194	57812	180	57980	177	60005	39	60065	43	60149	192
57350	194	57813	180	57982	177	60006	39	60066	43	60150	191
57352	194	57814	180	57984	177	60007	39	60067	39	60156	191
57354	194	57820	202	57985	177	60008	39	60068	39	60157	191
57356	194	57822	202	57986	177	60009	39	60072	39	60158	192
57358	194	57824	202	57990	177	60010	39	60073	42	60159	192
57359	194	57826	202	57992	177	60011	39	60074	222	60160	43
57360	194	57830	177	57994	177	60012	39	60075	41	60162	43
57361	194	57831	177	57995	177	60013	39	60076	39	60163	43
57362	194	57832	177	57996	177	60014	39	60077	41	60165	43
57363	194	57833	177	58001	196	60015	39	60078	41	60166	43
57364	194	57902	177	58002	196	60016	39	60079	42	60167	43
57365	194	57903	177	58004	103	60017	39	60080	41	60170	191
57366	194	57904	177	58005	103	60018	39	60081	41	60176	191
57367	194	57905	177	58006	103	60019	39	60082	41	60178	192
57368	194	57906	177	58008	103	60020	39	60083	41	60182	190
57370	194	57907	177	58010	103	60021	39	60084	41	60183	190



Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
60186	201	60336	103	64200	187	64334	184	64450	185	66360	135
60187	201	60350	69	64201	187	64335	184	64452	185	66361	135
60188	201	60352	69	64202	187	64336	184	64454	185	66365	135
60189	201	60353	69	64203	187	64337	184	64456	185	66366	135
60190	41	60360	40	64204	187	64338	184	64458	185	66370	135
60192	201	60361	40	64205	187	64339	184	64460	185	66371	135
60193	201	60365	40	64206	187	64340	184	64462	185	66376	135
60194	201	60410	200	64207	187	64341	184	64464	185	67500	134
60195	201	60500	42	64208	187	64344	184	64500	185	67501	134
60196	201	60510	203	64209	187	64345	184	64501	185	67502	134
60197	201	60511	203	64210	186	64346	184	64502	185	67503	134
60198	201	60512	203	64212	187	64348	185	64505	185	68060	140
60200	178	60513	203	64214	186	64349	185	64510	185	68062	140
60201	178	60514	203	64215	184	64350	185	64511	185	68064	140
60203	178	60515	203	64216	184	64352	185	64512	185	68066	140
60204	178	64112	187	64218	184	64353	185	64514	185	68067	140
60205	178	64113	187	64220	187	64354	185	66100	135	68070	140
60206	178	64130	186	64222	187	64356	185	66115	234	68072	140
60207	178	64136	186	64230	187	64357	185	66120	140	68074	140
60208	178	64141	186	64232	187	64358	185	66121	140	68114	140
60209	178	64143	186	64234	187	64360	184	66265	135	68115	140
60210	178	64145	186	64255	233	64364	184	66266	135	68120	140
60215	41	64146	186	64260	233	64365	184	66275	135	68121	140
60218	198	64147	186	64264	233	64366	184	66276	135	68122	140
60220	42	64149	186	64267	233	64367	184	66280	135	68160	140
60221	42	64151	186	64270	183	64368	184	66281	135	68161	140
60222	42	64154	186	64271	183	64369	184	66285	135	68162	140
60225	42	64157	186	64272	183	64370	184	66286	135	68163	140
60230	42	64158	186	64273	183	64371	184	66290	135	68164	140
60232	190	64160	186	64274	184	64372	184	66291	135	68165	140
60233	190	64161	186	64275	184	64373	184	66295	135	68166	140
60240	190	64162	186	64276	184	64374	184	66296	135	68167	140
60243	190	64163	186	64277	184	64375	184	66300	135	68202	136
60244	190	64164	186	64280	188	64376	184	66301	135	68203	136
60245	190	64165	186	64282	188	64377	184	66305	135	68204	136
60247	190	64167	186	64283	188	64378	184	66306	135	68206	136
60270	190	64169	186	64284	188	64379	184	66310	135	68208	136
60272	190	64170	186	64292	184	64380	184	66311	135	68210	136
60273	190	64171	186	64297	184	64381	184	66315	135	68211	136
60274	190	64172	186	64304	199	64384	184	66316	135	68212	136
60285	191	64173	186	64305	199	64385	184	66320	135	68213	136
60286	191	64174	186	64312	199	64386	184	66321	135	68215	136
60300	103	64175	186	64314	199	64400	185	66325	135	68218	136
60301	103	64177	186	64315	198	64402	185	66326	135	68220	136
60302	103	64178	186	64320	184	64404	185	66330	135	68222	136
60304	103	64180	186	64323	184	64410	185	66331	135	68224	136
60306	103	64182	186	64324	184	64412	185	66335	135	68226	136
60308	103	64183	186	64325	184	64414	185	66336	135	68228	136
60310	103	64184	186	64326	184	64416	185	66340	135	68230	136
60312	103	64185	186	64327	184	64418	185	66341	135	68231	136
60314	103	64186	186	64328	184	64420	185	66345	135	68232	136
60318	103	64187	187	64329	184	64422	185	66346	135	68234	136
60320	103	64195	186	64330	184	64424	185	66350	135	68235	136
60322	103	64196	186	64331	184	64440	185	66351	135	68240	136
60324	103	64197	186	64332	184	64442	185	66355	135	68244	136
60335	103	64198	187	64333	184	64444	185	66356	135	68246	136





Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
68248	136	68509	138	69013	76	70032	139	72142	135	72316	134
68252	136	68510	138	69014	141	70034	139	72143	141	72317	134
68256	136	68511	138	69015	141	70036	139	72144	141	72318	134
68258	136	68512	138	69016	141	70038	139	72145	141	72319	134
68260	136	68513	138	69017	141	70040	139	72146	141	72320	132
68262	136	68515	138	69018	141	70042	139	72147	141	72322	132
68264	136	68518	138	69025	141	70044	139	72148	141	72323	132
68266	136	68519	138	69030	141	70100	139	72150	239	72324	132
68268	136	68521	138	69031	141	70110	139	72152	239	72325	132
68270	136	68531	138	69032	141	70112	139	72155	141	72330	198
68272	136	68532	138	69034	141	70113	139	72156	141	72332	198
68274	136	68533	138	69035	141	70114	139	72160	132	72336	162
68276	136	68534	138	69036	141	70115	139	72161	132	72338	162
68278	136	68537	138	69037	141	70116	139	72164	132	76000	62
68280	136	68538	138	69040	239	70117	139	72165	132	76001	62
68300	136	68539	138	69042	239	70118	139	72173	132	76002	62
68302	136	68540	138	69043	239	70120	139	72176	132	76003	62
68304	136	68541	138	69044	239	70122	139	72177	131	76004	62
68308	134	68542	138	69045	239	70124	139	72200	131	76005	62
68309	134	68543	138	69046	239	70126	139	72202	131	76006	62
68313	198	68610	138	69047	239	70128	139	72210	131	76007	62
68314	198	68611	138	69048	239	72040	140	72212	131	76008	62
68315	198	68613	138	69100	237	72042	134	72215	131	76010	62
68316	198	68615	138	69101	237	72043	134	72216	131	76011	62
68317	198	68616	138	69102	237	72044	140	72217	131	76012	62
68318	198	68618	138	69104	237	72045	140	72225	131	76013	62
68320	199	68619	138	69107	237	72050	137	72230	131	76014	62
68322	199	68621	138	69108	237	72052	137	72231	131	76015	62
68323	199	68622	138	69110	237	72054	137	72245	131	76016	62
68324	199	68631	138	69111	237	72056	137	72246	131	76017	62
68325	198	68633	138	69112	237	72058	137	72247	131	76018	62
68326	199	68634	138	69113	237	72059	137	72255	131	76020	62
68327	199	68637	138	69114	237	72060	137	72256	131	76021	62
68330	133	68639	138	69115	237	72061	137	72260	131	76022	62
68332	199	68700	133	69116	237	72074	137	72270	131	76023	62
68333	199	68704	133	69117	237	72075	137	72274	131	76024	62
68336	198	68708	133	69118	237	72099	135	72275	131	76025	62
68337	198	68710	133	69119	237	72100	135	72277	131	76026	62
68338	199	68711	133	69120	237	72101	135	72278	131	76027	62
68339	199	68756	134	69121	237	72102	135	72290	131	76028	62
68340	180	68757	134	69124	237	72103	135	72291	131	76030	62
68341	180	68758	134	69126	237	72104	135	72292	131	76031	62
68342	180	68759	134	69127	237	72105	135	72293	131	76032	62
68344	203	68806	131	69128	237	72108	135	72294	131	76033	62
68346	137	68807	131	69129	237	72114	132	72300	131	76034	62
68347	137	68820	133	69130	237	72115	132	72301	131	76035	62
68370	234	68822	133	70010	139	72120	132	72302	131	76036	62
68372	234	68824	133	70012	139	72121	132	72303	131	76037	62
68375	141	68830	133	70014	139	72122	132	72305	132	76038	62
68376	141	68832	133	70016	139	72123	132	72306	132	76040	62
68377	141	68834	133	70018	139	72124	132	72308	132	76041	62
68380	141	69000	142	70020	139	72125	132	72309	132	76042	62
68382	141	69002	142	70022	139	72126	132	72310	131	76043	62
68385	141	69004	142	70024	139	72128	132	72311	131	76044	62
68386	141	69006	142	70026	139	72130	132	72313	131	76045	62
68387	141	69010	238	70028	139	72140	137	72314	131	76046	62
68396	141	69011	76	70030	139	72141	135	72315	134	76047	62



Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
76048	62	76128	66	76264	217	76404	150	76600	60	80083	70
76050	62	76129	66	76265	61	76405	150	76602	60	80085	246
76051	62	76131	66	76266	61	76406	150	76604	60	80086	246
76052	62	76132	66	76267	61	76407	150	76610	60	80090	70
76053	62	76133	66	76268	61	76409	150	76612	60	80091	70
76054	62	76135	217	76269	61	76415	78	76614	60	80092	70
76055	62	76137	66	76270	61	76416	78	76616	60	80093	70
76056	62	76138	66	76272	61	76420	78	76618	60	80095	70
76057	62	76139	69	76273	61	76422	78	78100	49	80096	70
76058	62	76140	69	76274	61	76424	78	78101	49	80097	70
76060	62	76141	69	76275	61	76428	125	78105	49	80098	70
76061	62	76142	66	76276	61	76430	69	78107	49	80099	70
76062	62	76146	64	76277	61	76432	69	78108	48	80110	70
76063	62	76147	65	76280	61	76434	69	78110	49	80113	70
76064	62	76150	66	76281	61	76436	69	78111	49	80114	70
76065	62	76152	67	76282	61	76500	60	78115	48	80120	70
76066	62	76153	67	76283	61	76501	60	78116	48	80123	70
76067	62	76154	66	76284	61	76502	60	78117	48	80129	67
76068	62	76160	63	76288	61	76503	60	78118	48	80138	71
76070	62	76161	63	76289	61	76504	60	78120	49	80140	71
76071	62	76162	63	76290	61	76505	60	78122	49	80141	71
76072	62	76163	63	76291	61	76506	60	78123	49	80142	71
76073	62	76164	63	76292	61	76510	60	78124	49	80146	71
76074	62	76165	63	76293	61	76511	60	78125	49	80150	71
76075	62	76166	63	76294	61	76512	60	78126	49	80152	67
76076	62	76167	63	76295	61	76513	60	78127	49	80153	67
76077	62	76170	64	76296	61	76514	60	78128	49	80154	67
76078	62	76172	64	76297	61	76515	60	78129	49	80155	67
76080	62	76180	64	76298	61	76516	60	78130	49	80156	67
76081	62	76186	64	76299	61	76540	60	78131	49	80157	67
76082	62	76188	64	76300	69	76541	60	78132	49	80158	67
76083	62	76197	125	76301	69	76542	60	78133	49	80159	67
76084	62	76198	125	76302	69	76543	60	78134	49	80160	71
76085	62	76201	68	76310	69	76544	60	78135	49	80162	71
76086	62	76202	68	76311	69	76545	60	78136	49	80164	71
76087	62	76203	68	76312	69	76546	60	78137	49	80165	71
76088	62	76205	213	76320	69	76550	60	78138	49	80167	71
76090	64	76206	213	76321	69	76551	60	78139	49	80168	71
76091	64	76208	68	76322	69	76552	60	78201	47	80170	25
76099	65	76209	68	76323	69	76553	60	78202	47	80172	25
76100	65	76212	64	76324	69	76554	60	78203	47	80175	71
76101	65	76215	217	76325	69	76555	60	78205	47	80176	71
76102	65	76216	61	76328	66	76556	60	78211	47	80177	71
76103	65	76220	217	76329	66	76560	60	78213	47	80180	71
76105	65	76221	217	76330	66	76561	60	78220	49	80181	71
76107	65	76224	62	76341	65	76562	60	78230	47	80200	124
76110	65	76231	61	76360	64	76563	60	78232	47	80202	124
76111	65	76232	61	76362	64	76565	60	78234	47	80204	124
76112	65	76233	61	76363	64	76566	60	78236	47	80206	124
76114	65	76234	61	76364	64	76567	60	78240	131	80208	124
76115	65	76235	61	76365	64	76568	60	78241	131	80210	124
76116	66	76250	24	76366	64	76570	60	78242	131	80214	124
76117	66	76251	24	76367	64	76571	60	78246	135	80216	124
76118	66	76252	24	76368	64	76572	60	78250	139	80218	124
76119	66	76253	24	76369	64	76575	60	80080	70	80250	59
76120	66	76260	61	76400	150	76576	60	80081	70	80500	69
76122	66	76262	61	76401	150	76577	60	80082	70	80501	69



NUMERICAL INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
80505	69	81330	75	87216	82	90050	81	96415	209	99062	70
80515	68	81332	70	87217	82	90052	81	96416	209	99063	70
80516	68	81340	74	87218	82	90053	81	96420	213	99064	70
80520	68	81341	74	87220	85	90054	81	96421	213	99065	70
80521	68	81345	74	87230	85	90055	81	96424	214	99066	71
80522	68	81350	74	87231	85	90060	81	96426	214	99068	71
80523	68	81360	74	87236	85	90065	79	96440	209	99069	71
80524	68	81361	74	87238	85	90067	78	96470	212	99070	152
80525	68	81365	74	87240	85	90068	78	96475	212	99071	152
80526	68	81366	74	87250	85	90070	78	96478	212	99084	168
80527	68	81370	74	87260	85	90071	78	96480	212	99085	168
80530	68	81371	74	87262	85	90072	78	96481	212	99086	168
80532	68	81380	74	87264	85	90073	78	96482	212	99087	168
81200	73	81381	74	87266	85	90075	107	96483	212	99088	168
81202	73	81382	74	87268	85	90076	107	96484	212	99092	176
81204	73	81400	75	87280	80	90080	81	96485	212	99094	176
81205	73	81401	75	87282	80	90081	81	96490	213	99096	176
81206	73	81402	75	90000	81	90085	81	96505	74	99097	176
81207	73	81403	75	90001	81	90086	81	96506	74	99098	176
81208	73	86120	56	90002	81	90087	81	96510	213	99100	42
81210	73	86121	56	90003	81	90088	81	96515	213	99101	42
81211	73	86122	56	90004	81	90089	81	96516	213	99102	208
81212	73	86123	56	90005	81	90090	80	96520	214	99104	228
81213	73	86124	56	90007	81	90100	81	96525	212	99105	230
81214	61	86125	56	90008	80	90106	79	98100	151	99106	230
81215	61	86127	56	90009	80	90107	79	98110	151	99107	230
81216	72	86128	56	90010	80	90206	84	98111	151	99108	228
81218	72	86129	56	90011	80	90207	84	98112	151	99109	228
81220	72	86130	56	90014	80	90208	84	98113	151	99111	228
81221	72	86132	56	90015	80	90230	84	98115	151	99116	25
81222	72	86134	56	90016	80	90235	84	98116	151	99117	25
81224	72	86136	56	90017	80	90240	84	98117	151	99127	230
81225	72	86138	56	90018	80	90241	84	98118	151	99136	57
81226	72	87000	84	90019	80	90242	84	98120	151	99140	207
81227	72	87002	84	90020	81	90244	84	98121	151	99141	207
81228	72	87004	84	90021	81	90250	84	98125	157	99142	207
81229	72	87005	84	90022	81	92000	120	98130	151	99143	207
81230	72	87006	84	90023	81	92001	120	99013	205	99145	70
81232	72	87010	84	90024	81	92003	120	99014	205	99146	71
81234	75	87020	84	90025	81	92004	120	99015	236	99147	70
81240	72	87024	84	90027	81	92005	120	99020	182	99150	247
81242	72	87026	84	90028	80	92006	120	99021	147	99151	247
81244	72	87028	84	90029	80	92020	120	99022	147	99158	207
81246	72	87030	81	90030	81	92022	77	99023	147	99159	207
81248	72	87032	81	90031	81	92025	77	99028	130	99160	152
81250	72	87034	81	90033	81	92027	77	99029	130	99161	152
81252	72	87040	76	90036	81	92040	76	99030	110	99162	152
81254	72	87200	85	90037	81	92041	76	99043	76	99163	152
81255	72	87202	85	90039	120	92043	76	99044	246	99165	241
81300	73	87204	85	90040	120	96400	213	99050	190	99173	205
81308	73	87206	85	90041	120	96401	213	99052	190	99175	65
81309	73	87207	6	90042	120	96402	213	99055	203	99176	65
81310	73	87210	82	90043	120	96403	213	99056	70	99177	65
81311	73	87212	82	90044	120	96410	209	99057	70	99178	192
81324	75	87214	82	90045	120	96411	209	99058	70	99179	192
81326	75	87215	82	90048	120	96414	209	99059	70	99250	179





Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
99255	206	99913	248	916015	145	921015	146	931115	144	935176	144
99256	206	99916	248	916016	145	923114	146	931116	144	935177	144
99282	202	99917	248	916041	145	923214	146	931117	144	935211	144
99283	202	99918	249	916042	145	926011	146	931121	144	935212	144
99284	202	99919	248	916044	145	926012	146	931122	144	935213	144
99285	237	99920	248	916045	145	926014	146	931124	144	935214	144
99287	164	99921	248	916091	145	926015	146	931125	144	935215	144
99288	164	99922	248	916092	145	926110	146	931126	144	935216	144
99295	183	99940	218	916094	145	926111	146	931127	144	935217	144
99296	183	99941	218	916095	145	926112	146	931171	144	991212	147
99300	230	99942	218	918122	146	926114	146	931172	144	991312	147
99301	230	99951	248	918124	146	926115	146	931174	144		
99302	230	99953	248	918125	146	926116	146	931175	144		
99303	230	99957	248	918126	146	926117	146	931176	144		
99304	230	99959	248	918127	146	926118	146	931177	144		
99305	230	99960	249	918128	146	926119	146	931211	144		
99306	230	99962	218	918129	146	926210	146	931212	144		
99307	230	99965	249	918130	146	926211	146	931213	144		
99312	59	99968	249	918131	146	926212	146	931214	144		
99314	103	99970	249	918132	146	926214	146	931215	144		
99315	103	910011	145	918133	146	926215	146	931216	144		
99320	202	910012	145	918134	146	926216	146	931217	144		
99321	202	910014	145	918222	146	926217	146	935011	144		
99328	204	910015	145	918224	146	926218	146	935012	144		
99338	240	911011	145	918226	146	926219	146	935013	144		
99347	76	911012	145	918227	146	926411	146	935014	144		
99388	128	911014	145	918228	146	926412	146	935015	144		
99390	80	911015	145	918229	146	926414	146	935016	144		
99392	230	913011	145	918230	146	926415	146	935017	144		
99393	230	913012	145	918231	146	929010	146	935022	144		
99394	230	913014	145	918232	146	929313	146	935023	144		
99400	202	913015	145	918234	146	931011	144	935024	144		
99401	202	913041	145	918722	146	931012	144	935025	144		
99402	202	913042	145	918724	146	931013	144	935026	144		
99415	55	913044	145	918726	146	931014	144	935072	144		
99420	240	913045	145	918727	146	931015	144	935073	144		
99430	122	913091	145	918728	146	931016	144	935074	144		
99433	20	913092	145	918729	146	931017	144	935075	144		
99435	210	913094	145	918730	146	931021	144	935076	144		
99466	31	913095	145	918731	146	931022	144	935111	144		
99468	31	915011	145	918732	146	931023	144	935112	144		
99470	182	915012	145	918734	146	931024	144	935113	144		
99471	182	915014	145	919070	146	931025	144	935114	144		
99472	182	915015	145	919080	146	931026	144	935115	144		
99473	182	915016	145	919090	146	931027	144	935116	144		
99474	182	915021	145	919095	146	931071	144	935117	144		
99475	182	915022	145	919100	146	931072	144	935121	144		
99476	182	915024	145	919105	146	931073	144	935122	144		
99477	182	915025	145	919110	146	931074	144	935124	144		
99490	227	915071	145	919115	146	931075	144	935125	144		
99901	248	915072	145	919120	146	931076	144	935126	144		
99902	248	915074	145	919130	146	931077	144	935127	144		
99903	248	915075	145	919140	146	931111	144	935171	144		
99904	248	916011	145	920014	146	931112	144	935172	144		
99906	248	916012	145	921011	146	931113	144	935174	144		
99907	248	916014	145	921014	146	931114	144	935175	144		

NUMERICAL INDEX



**A**

Absorbent  
 Mats/Pads ..... 221  
 Powder ..... 221

Access Panels ..... 17

Accessory Clamps ..... 46

Air  
 Hose ..... 224-225  
 Jacks ..... 224  
 Pans ..... 7  
 Regulators ..... 224  
 Rivet Guns ..... 206  
 Tanks ..... 225

Air Cleaner(s) ..... 6-8  
 Covers ..... 8  
 Nuts/Studs ..... 7

Air Filter Element(s) ..... 8  
 Sealing Foam ..... 6

Alternators ..... 69

Aluminum  
 Angle and Flat Stock ..... 38  
 Sheet Metal ..... 9  
 Strapping ..... 12  
 Tubing ..... 38

Apron ..... 218

Arm Restraints ..... 147

Axle(s) ..... 134-135  
 Bearing ..... 134  
 C-Clips ..... 140  
 Front (Sprint) ..... 158  
 Housings ..... 133  
 Housing Ends ..... 134  
 Housing Seal ..... 135  
 Nut Wrench (Sprint) ..... 225  
 Plug ..... 135  
 Puller, T-Handle ..... 234  
 Retainers ..... 134  
 Straps ..... 222  
 Tubes ..... 136  
 Tube Seals ..... 135, 137  
 Tube Tool ..... 234

**B**

Backing Plate Bolts ..... 134

Backpack ..... 249

Back-Up Washers ..... 92

Balance Plate ..... 76

Ballast ..... 46  
 Brackets ..... 46

Ball Joint(s) ..... 173-176  
 Adapter Bushing ..... 176  
 Holders ..... 177  
 Sleeves ..... 176  
 Spreader Tool ..... 207  
 Taper Reamer ..... 207  
 Wrench ..... 232

Ball Spline Ball Kit ..... 239

Band Clamps ..... 105

**B (Cont.)**

Banjo Bolts/Fittings ..... 110

Barrel Pump ..... 216

Battery  
 Boxes ..... 65  
 Cable Kits ..... 65  
 Cable Terminals ..... 66  
 Cable Thru-Stud ..... 66  
 Charging Posts ..... 69  
 Charging Post Bracket ..... 69  
 Disconnect Switch ..... 67  
 Hold Down (Optima) ..... 65  
 Quick Disconnects ..... 69  
 Terminals ..... 66  
 Terminal Covers ..... 66

Bead Breakers ..... 229

Bell Cranks, Throttle ..... 156

Bellhousing ..... 238

Bellhousing Dowel Pins ..... 239

Belt(s)  
 Gilmer ..... 56  
 Seat ..... 151  
 Torque Tube ..... 155  
 V-Groove ..... 56

Bench Yoke ..... 234

Bert Transmission  
 Ball Spline Ball Kit ..... 239  
 Clevis Kit ..... 236  
 Clutch Discs ..... 239  
 Shifter ..... 236  
 Tool ..... 239

Birdcages ..... 162, 200

Birdcage Bearings ..... 162, 198

Blanket(s)  
 Moving/Utility ..... 223  
 Torque Ball (Safety) ..... 155  
 Transmission (Safety) ..... 238

Bleeder Bottles ..... 210

Bleeder Screws ..... 111

Blower Fan  
 Duct ..... 22  
 Helmet ..... 148  
 Radiator ..... 218

Body  
 Bolts ..... 99  
 Braces ..... 11-12  
 Graphic Tool ..... 204  
 Radius Tool ..... 205  
 Reinforcing Plates ..... 97  
 Roller ..... 204  
 Strapping ..... 12  
 Support Panels ..... 11

Bolt(s)  
 Backing Plate ..... 134  
 Beadlock ..... 241  
 Body ..... 99  
 Button Head ..... 100  
 Caliper ..... 19

**B (Cont.)**

Bolt(s) (Cont.)  
 Center Caps ..... 232  
 Countersunk ..... 98  
 Cylinder Head ..... 84  
 Hex Head ..... 100  
 Intake Manifold ..... 84  
 Jack ..... 180-181  
 Load Bolt ..... 181  
 Rotor ..... 19  
 Socket Head ..... 100  
 Sway Bar ..... 182

Boot, Shifter ..... 236

Bottle Brackets ..... 45

Bracket(s)  
 Accessory ..... 46  
 Ballast ..... 46  
 Caliper ..... 20  
 Charging Posts ..... 69  
 Control Arm ..... 178  
 Fire Extinguisher ..... 151  
 Fuel Cell Mounting ..... 130, 157  
 Fuel Filter ..... 123  
 Nitrogen Bottle ..... 225  
 Over ow Tank ..... 59  
 Panhard Bar ..... 190-191  
 Power Steering Pump ..... 164  
 Power Steering Tank ..... 165  
 Quick Turn Fasteners ..... 96  
 Seat Mounts ..... 33  
 Shock ..... 42  
 Spoiler ..... 17  
 Steering Column ..... 35  
 Steering Quickener ..... 35  
 Tie Down ..... 41  
 Trailing Arm ..... 200-202  
 Transmission Mount ..... 239  
 Universal ..... 45

Braided Hose Cutter ..... 209

Braided Steel Lines ..... 111-115

Brake  
 Bias Adjusters ..... 25  
 Bias Gauges ..... 25  
 Bleeder Bottles ..... 210  
 Boosters ..... 23  
 Calipers ..... 19  
 Caliper Bolts ..... 19  
 Caliper Brackets ..... 20  
 Caliper Spacers ..... 19  
 Combination Valve ..... 24  
 Combination Valve Bracket ..... 24  
 Combination Valve Bleeder Tool ..... 24  
 Ducts ..... 22  
 Duct Blower ..... 22  
 Duct Flange ..... 22  
 Duct Hose ..... 22  
 Fittings ..... 110-112  
 Fluid ..... 21

**B (Cont.)**

Brake (Cont.)	
Hose Kits .....	115
Kits, Disc .....	21
Light Switches .....	24
Lines .....	111-117
Line Adapters/Fittings .....	110-111
Line Defl ctors .....	19
Line Display Rack .....	116
Line Flaring Tool .....	210
Line Kits .....	115
Line Lock Kit .....	25
Master Cylinder .....	23
Pedal Assemblies .....	23
Pedal Clevises .....	23
Pedal Mounts .....	22-23
Pressure Gauges .....	25
Proportioning Valve .....	24
Quick Disconnects .....	113
Remote Reservoir .....	23
Residual Valves .....	24
Rotors .....	18-19
Rotor Bolt Kit .....	19
Rotor Hats .....	19
Shut-Off Valves .....	25
Breathers .....	83
Breather Covers .....	83
Breather Tanks .....	79, 143
Broom Holder .....	221
Bulbs, LED .....	70
Bulkhead Fittings ....	107-108, 111, 114
Bumper(s) .....	26-29
Covers .....	28-29
Hook Up Kit .....	27
Bump Rubbers/Stops .....	184-185
Bump Steer Studs .....	171
Bump Steer Spacers .....	170
Bungs	
Weld-In .....	109
O2 .....	86
Burst Panel Components .....	125
Buss Bars .....	64

**C**

Cable Tie(s)	
Mounting Bases .....	93
Nylon .....	93
Stainless Steel .....	93
Tool .....	93
Caliper(s)	
Bolts .....	19
Brake .....	19
Brackets .....	20
Dial/Digital .....	209
Fittings .....	110-111
Spacers .....	19
Camshaft	
Bearing Tool .....	212
Button Spacers .....	81

**C (Cont.)**

Camshaft (Cont.)	
Locking Plate .....	81
Seal Plates .....	81
Caps, Plastic and Aluminum .....	120
Car Covers .....	15
Carburetor	
Bushing Kits .....	128
Fittings .....	124
Gaskets .....	126
Hats .....	215
Hold Down Nuts .....	126
Line/Log Kits .....	124
Linkage Kits .....	128-129
Return Springs .....	128
Shear Plates .....	126
Spacers .....	125-126
Stand .....	215
Caster Plate .....	232
Caster Wheels .....	211
Catalog Rack .....	250
C-Clips .....	140
Centerlinks .....	168
Charging Post(s) .....	69
Mounting Bracket .....	69
Chassis Dollies .....	224
Chassis Set-Up Blocks .....	232
Chassis Tie Down Brackets .....	41
Chrome Moly Tubing .....	37
Circuit Breaker .....	64
Clamp-On Rings .....	199
Cleaning Discs .....	209
Cleaning Wipes .....	220
Cleco	
Fasteners .....	206-207
Pliers .....	206
Clevises .....	177
Clock .....	249
Clutch	
Alignment Tools .....	238
Discs, Bert .....	239
Lines .....	115
Coil Mounts .....	75
Coil-Over Shock	
Bearing Kit .....	186
Eliminators .....	187
Kits .....	186
Load Bolt Assembly .....	199
Spring Adapter (5") .....	186
Spring Adjuster, Hydraulic .....	187
Coil Spring	
Cups .....	181
Shims .....	181
Spacers .....	186
Compression Tester .....	214
Control Arm(s) .....	177, 179-180
Brackets/Mounts .....	178
Bushings .....	178-179
Limit Clamps .....	180

**C (Cont.)**

Control Arm(s) (Cont.)	
Shims .....	178
Crankshaft	
Balancing Plate .....	76
Hub .....	81
Keys .....	81
Pulley Mandrel Kit .....	56
Socket .....	214
Crankcase Evacuation System .....	86
Crayons, Tire .....	226
Cross Pins .....	140
Crush Washers .....	110
Cylinder Head	
Bolts .....	84
Dowel Pins .....	84

**D**

Dash Panels .....	16
Deburring tool .....	204
Degreaser .....	47
Dial/Digital Calipers .....	209
Dial Indicator .....	209
Dial-In Board .....	13
Dial-In Window Marker .....	47
Diamond Plate, Aluminum .....	9
Diaper Pins .....	105
Digital Level .....	204
Dipsticks, Transmission .....	237
Disc Brake Kits .....	21
Disconnect Switches, Battery .....	67
Distributor(s) .....	72-73
Gasket .....	85
Gears .....	73
Hold Downs .....	73
Dollies	
Chassis .....	224
Engine .....	211
Door Bars .....	33
Door Bar Clamp .....	33
Door Bar Padding .....	150
Door Bar Swing-Out Kit .....	33
Door Plate .....	33
Double Adjusters .....	177, 180
Dowel Pins, Bellhousing .....	239
Down Nozzle	
Breather Ring .....	155
Plugs .....	155
D-Rings .....	222
D-Ring Backing Plate .....	222
Drag Links .....	160
Drag Link Tether .....	160
Drain Pans .....	235
Drain Plug .....	76, 109
Drill Bit(s)	
Double Ended .....	205
Flange Rivet .....	205
Spring Steel .....	205
Step .....	205





**D (Cont.)**

Drill Bit(s) (Cont.)  
 Wheel Stud ..... 205  
 Drill Holders..... 221  
 Drink Bottle Kit ..... 148  
 Drive Flange Gaskets ..... 137  
 Driver Air System ..... 147  
 Driving Suits ..... 144  
 Driving Gloves ..... 145  
 Driving Shoes ..... 146  
 Driveshaft Loops ..... 142  
 Drum Pump ..... 216  
 Dry Break Valves ..... 130  
 Duct Blower..... 22  
 Durometer ..... 226  
 Dust Caps ..... 132

**E**

Earplugs ..... 218  
 Electrical Connectors..... 61-62  
 Electrical Outlet(s) ..... 69  
 Mounting Brackets ..... 69  
 Electrical  
 Pliers..... 217  
 Relay..... 64  
 Tape..... 220  
 Wire ..... 60  
 Emery Cloth..... 208

**Engine**

Conversion Kits ..... 91  
 Cover ..... 85  
 Cradles ..... 211  
 Cradle Wheel Kits..... 211  
 Diapers ..... 76  
 Lift Handles ..... 211  
 Lift Plates..... 212  
 Mid-Plates ..... 87  
 Motor Plates ..... 87  
 Mounts..... 88-89  
 Primer Tank ..... 212

**Evacuation System, Crankcase ..... 86**

**Exhaust**

Block Off Plates..... 85  
 Cut Outs (Electric) ..... 86  
 Gaskets ..... 85  
 Hangers ..... 86  
 Shields..... 86  
 Wrap ..... 86

**F**

Fabrication Pencil..... 205  
 Fan(s)  
 Blower..... 219  
 Electric..... 53  
 Mechanical ..... 54  
 Reinforcement Plate..... 54  
 Shrouds ..... 53-54  
 Spacers ..... 54

**F (Cont.)**

Feeler Gauges ..... 213  
 Fender Braces..... 12  
 Fender Washers ..... 98  
 Files, Thread..... 208  
 Fill Line Kit ..... 143  
 Fill Tanks..... 143  
 Filler Cap Kit..... 109  
 Filter  
 Air ..... 8  
 Breather ..... 83  
 Fuel ..... 123  
 Oil ..... 76  
 Fin Comb..... 218  
 Fire Extinguisher Mount Brackets 151  
 Fire Suits ..... 144  
 Firewall Cable Bushing..... 66  
 Fitting(s)  
 Brake ..... 110-111  
 Carburetor ..... 124  
 Fuel Injection ..... 124  
 Inverted Flare..... 111  
 NPT..... 108, 110  
 Oil Inlet..... 120  
 Power Steering ..... 166  
 Radiator ..... 50, 59  
 Reducer, AN ..... 107  
 Flange Bearing ..... 165  
 Flaring Tool..... 210  
 Flexplates ..... 238  
 Floor Jack..... 223  
 Floor Plates ..... 31  
 Flywheel Locking Tool..... 214  
 Fogging Oil ..... 49  
 Ford 9"  
 Axles..... 134-135  
 Axle Housing Seal ..... 135  
 Axle Retainers ..... 134  
 Backing Plate T-Bolts..... 134  
 Gasket ..... 140  
 Housings ..... 133-134  
 Housing Ends ..... 134  
 Housing Studs..... 140  
 Pinion Centering Jig ..... 234  
 Pinion Nuts ..... 141  
 Pinion Support ..... 141  
 Pinion Yokes ..... 141  
 Truss Support..... 133  
 Frame Repair Plate..... 34  
 Freeze Plug Driver ..... 212  
 Fuel  
 Cell Cap and Bung ..... 130  
 Cell Guard ..... 45  
 Cell Hose ..... 130  
 Cell Mounting Brackets ..... 130, 157  
 Cell Top Plate Hardware..... 157  
 Check Valve..... 130  
 Drum Pump ..... 216

**F (Cont.)**

Fuel (Cont.)  
 Dry Break Valves ..... 130  
 Filters ..... 123  
 Filter Brackets..... 123  
 Fragrances..... 49  
 Injection Fittings ..... 124  
 Line ..... 116, 118  
 Line Kits, Carb..... 124  
 Logs..... 124  
 Lubricant ..... 49  
 Pressure Gauges..... 70, 124  
 Pressure Regulator..... 122  
 Pressure Reg. Brackets..... 122  
 Primer Bottle ..... 216  
 Pumps ..... 122  
 Pump Block-off Plates ..... 122  
 Pump Gaskets ..... 85  
 Pump Mounting Plate..... 122  
 Shut-Off Valve ..... 123  
 Funnels ..... 213  
 Fuses ..... 64  
 Fuse Terminals ..... 64  
 Fuse Block..... 64

**G**

Gas Pedals (Throttle)..... 129  
 Gasket(s)  
 Carburetor ..... 126  
 Distributor..... 85  
 Engine ..... 85  
 Ford 9" ..... 140  
 Fuel Pump ..... 85  
 Header ..... 85  
 Oil Pan ..... 85  
 Quick Change Cover ..... 137  
 Thermostat Housing..... 85  
 Valve Cover..... 82  
 Gauge(s)  
 Brake Pressure ..... 25  
 Feeler..... 213  
 Lines ..... 115  
 Mechanical ..... 59  
 Panels..... 70  
 Sending Units ..... 70  
 Stagger ..... 226  
 Tire..... 226  
 Gear(s)  
 Distributor ..... 73  
 Marking Compound ..... 139  
 Ring and Pinion ..... 139  
 Totes ..... 235  
 Tote Trays ..... 235  
 Gear Drive ..... 81  
 Gilmer Belts..... 56  
 Gloves  
 Disposable..... 218  
 Driving ..... 145

**G (Cont.)**

Gloves (Cont.)	
Work .....	218
Graphic Trim Tool .....	204
Grease	
Gun/Tips .....	209
High-Pressure .....	131
Remover/Cleaner .....	47
Wheel Bearing .....	131
Grommets .....	62
Ground Clearance Indicator .....	182
Ground Straps .....	66
Ground Stud .....	65
Guide Plates .....	84
Gussets .....	40

**H**

Half Clamps .....	46
Hat(s)	
Baseball .....	248
Beanie .....	248
Carb .....	215
Rotor .....	19
Header Tab Kit .....	86
Header Gaskets .....	85
Header Wrap .....	86
Headlight Decal Kits .....	28-29
Heat Shrink .....	63
Heat Sleeve .....	60
Heat Wrap .....	86
Heaters	
Immersion .....	78
Pads .....	78
Heel Riser .....	129
HEI Distributors .....	73
HEI Mechanical Advance Kit .....	73
HEI Wire Connectors .....	73
Heims (See Rod Ends)	
Helmet	
Blower System .....	148-149
Dryer .....	147
Hooks .....	147
Skirts .....	147
Supports .....	147
Vent Hose .....	149
Vent .....	149
Hinges, Aluminum .....	117
Holder(s)	
Aerosol Can .....	221
Ball Joint .....	177
Broom .....	221
Drill .....	221
Nitrogen Bottle .....	225
Paper Towel .....	220
Radiator .....	218
Rod and Piston .....	212
Tire Gauge .....	226
Hole Saws .....	204

**H (Cont.)**

Honeycomb .....	51
Hood Hinge Kits .....	15
Hood Pin	
Kits .....	14
Mounts/Adapters .....	14
Supports .....	14
Hood Prop .....	15
Hood Scoops .....	13
Hose(s)	
Air .....	224-225
Assembly Tools .....	209
Brake Duct .....	22
Clamps .....	58, 105
Cutter .....	209
Helmet Vent .....	149
Fittings .....	106-109
Fuel .....	118
Radiator .....	58
Reducer .....	58
Restrictor .....	58
Vacuum .....	118
Housing Stud Kit, Ford 9" .....	140
Hub(s)	
Covers .....	132
Seals .....	132
5x5 .....	131

**I**

Idle Speed Adjuster .....	129
Idler Arms .....	168
Ignition Box Mount .....	75
Ignition Coil .....	75
Ignition Coil Mounts .....	75
Ignition Panels .....	71
Impact Crimper .....	217
Indicator Lights .....	71
In-line Duct Blower .....	22
In-Line Thermostat Housing .....	57
Inner Mud Shield .....	241
Intake Manifold Bolt Kit .....	84
Inverted Flare Fittings .....	111
Inverted Flare Nuts .....	116

**J**

Jacks	
Air .....	224
Pit .....	223
Jack Bolts .....	180
Jam Nuts .....	180
Plate .....	180
Sleeves .....	180
Jack Post Kit, Right Hand .....	34
Jack Post Quick Change .....	137
Jack Stands .....	223
Jacobs Ladders .....	163
Pin Kits .....	163
Jam Nuts .....	196

**J (Cont.)**

J-Bars .....	190
Junction Block .....	64

**K**

Knee Guard .....	157
Knee Guard Mount .....	157
Koul Tool .....	209

**L**

Lanyards .....	15
Layout Pencil .....	205
Layout Fluid .....	213
Leaf Spring	
Lowering Blocks .....	203
Pads .....	203
Shackles .....	203
Slider Box .....	203
U-Bolts .....	203
LED Bulbs .....	72
Level Base .....	204
Level, Digital .....	204
Lift Bar Retainer Clamp .....	198
Lift Handles .....	211
Lift Plates, Engine .....	211
Lifter Valley Covers .....	79
Lifter Valley Vents .....	79
Light Bulbs .....	70
Limiter Chain .....	199
Limiter Chain Clamps .....	180, 199
Line Clamps .....	105
Line Lock Kit .....	25
Linkage Kits, Carb .....	128-129
Load Bolts .....	180-181
Jam Nuts .....	180
Sleeves .....	180
Loading Couplers .....	166
Log Book .....	231
Log Decal .....	226
Lowering Blocks .....	203
Ludwig Clamps .....	104
Lug Nuts .....	242
Lug Wrenches .....	242

**M**

Magnets .....	214
Main Cap Removal Tool .....	212
Mandrel Spacers .....	56
Markers, Paint .....	226
Masking Tape .....	220
Master Cylinder(s) .....	23
Reservoirs .....	23
Mat, Absorbent .....	221
Mat, Pit .....	223
Mat, Track .....	223
Merchandising Displays .....	249
Metal Snips .....	204
Micro Switch .....	129



**M (Cont.)**

Mid-Plates ..... 87  
Mini-Spools ..... 140  
Mirrors, Rear View ..... 150  
Mirror, Telescoping ..... 214  
Mono Ball Bearings ..... 196  
Morse Cable Clamps ..... 237  
Motor Mount(s) ..... 88-89  
    Spacers ..... 89  
Motor Plates ..... 87  
Moving Blanket ..... 223  
MSD Box Mount ..... 75  
Mud Plugs ..... 241  
Mud Scraper ..... 218  
Mud-X ..... 47

**N**

Nitrogen Bottles ..... 224  
Nitrogen Bottle Holder ..... 225  
Nitrous Bottle Warmer ..... 125  
Nitrous Combination Wrench ..... 216  
Nitrous Pressure Control Kits ..... 125  
Nitrous Switches (WOT) ..... 127  
Non-Skid Tape ..... 219  
Nosepieces ..... 28-30  
Nose Supports ..... 29-30  
Nose Wing Posts ..... 158  
Nose Wing Wall Mount ..... 221  
Notcher, Tubing ..... 204  
Novus Cleaner and Polish ..... 47  
Nuts  
    Air Cleaner ..... 7  
    Carburetor ..... 126  
    Hex ..... 101  
    Insert ..... 97  
    Jam ..... 196  
    Lug ..... 242  
    Pinion ..... 141  
    Spindle ..... 132  
    Weld-on ..... 40

**O**

O2 Sensor Plug and Bung ..... 86  
Oil  
    Bottle Tray ..... 221  
    Coolers ..... 78-79  
    Cooler Scoop ..... 78  
    Filter ..... 76  
    Filter Adapters ..... 77  
    Filter Cutter ..... 212  
    Galley Plugs ..... 78  
    Heaters ..... 78  
    Inlet Fittings ..... 77  
    Pan and Pick-Up ..... 76  
    Pan Gaskets ..... 85  
    Primer Tank ..... 212  
    Restrictors ..... 78  
    Temperature Tee ..... 120

**O (Cont.)**

Oil Eater ..... 47  
Over ow  
    Check Valves (Fuel) ..... 130  
    Fitting ..... 59  
    Nozzle ..... 58  
    Tanks ..... 59  
    Tank Brackets ..... 59

**P**

Padding  
    Door Bar ..... 152  
    Roll Bar ..... 152  
Paint Markers ..... 226  
Panhard Bar(s) ..... 190  
    Adjusters ..... 190-191  
    Brackets/Mounts ..... 190-191  
Pedal Extensions ..... 22  
Pedal Plate, Floor ..... 22  
Peg Hooks ..... 250  
Petcock ..... 110  
Pilot Bearings/Bushings ..... 238  
    Installation Tool ..... 238  
Pinion  
    Centering Jig ..... 234  
    Nuts ..... 141  
    Seals ..... 141  
    Support ..... 141  
    Yokes ..... 141  
    Yoke Wrench ..... 234

**Pit**

Cart ..... 223  
Jacks ..... 223  
Mats ..... 223  
Sockets ..... 225  
Pitman Arm(s) ..... 160, 168  
    Nut Kit ..... 168

**Plastic**

    Rolled/Sheets ..... 10  
    Caps and Plugs ..... 120  
Plastigage ..... 212

**Pliers**

    Cleco ..... 206  
    Electrical ..... 217  
    Safety Wire ..... 208

Polycarbonate Sheet(s) ..... 10  
    Cleaner ..... 47

Port and Polish Kit ..... 213  
Power Brake Boosters ..... 23

**Power Steering**

    Cooler ..... 165  
    Fittings ..... 166  
    Hose Kits/Fittings ..... 165  
    Pump ..... 164  
    Pump Brackets ..... 164  
    Tanks ..... 165  
    Tank Brackets ..... 165  
Pressure Switches ..... 72

**P (Cont.)**

Primer Bottle ..... 216  
Proportioning Valve ..... 24  
Pull Bar(s) ..... 192-193  
    Brackets ..... 191  
    Covers ..... 192  
Pulley(s)  
    Aluminum ..... 55-56  
    Shims ..... 55  
Punch and Flare Tools ..... 204  
Pushrod Guide Plates ..... 84

**Q**

**Quick Change**

    Axles ..... 135  
    Axle Tubes ..... 136  
    Axle Tube Support Brackets ..... 199  
    Axle Tube Tool ..... 234  
    Cover Gasket ..... 139  
    Cover Nuts ..... 139  
    Drain Pan ..... 235  
    Gear Tote ..... 235  
    Oil Plug Socket ..... 234  
    Side Bell O-Ring ..... 137  
Quick Disconnects, Battery ..... 71  
Quick Disconnect Fittings ..... 115  
Quick Release Pin(s) ..... 103  
    Lock Collar ..... 103  
    Throttle End ..... 128

**Quick Turn**

    Fasteners ..... 94-96  
    Insert Plates ..... 97  
    Mounting Brackets ..... 96  
    Reinforcing Plates ..... 97  
    Spring Adjuster ..... 207  
    Spring Fixture ..... 207  
    Tool ..... 207  
    Transfer Punches ..... 207

**R**

Racers Tape ..... 219  
Rack and Pinion Spacers ..... 170  
Radiator(s) ..... 50-52  
    Air Scoop ..... 154  
    Caps ..... 53  
    Fan Shroud ..... 53-54  
    Fin Comb ..... 218  
    Fittings ..... 50  
    Honeycomb ..... 51  
    Hoses ..... 58  
    Hose Clamps ..... 58  
    Mounting Brackets ..... 50  
    Over ow Tanks ..... 59  
    Rock Screen ..... 51  
    Shaker Screen ..... 51  
    Wall Mount ..... 218  
Radio Boxes ..... 149  
Radius Rods ..... 162, 194-195





**R (Cont.)**

Radius Rod Studs ..... 162  
Ratchet Binder/Straps.....222  
Reamer/Taper.....207  
Rear End  
    Bearing and Shim Kits..... 138  
    Fill Tanks..... 143  
    Gear Sets..... 139  
    Housings ..... 133-134  
    Station Brackets ..... 232  
    Truss Support..... 133  
Rear Main Seal Adapters ..... 76  
Rear Tank Guard ..... 45  
Reducer Bushings..... 102  
Reducer Fittings..... 107  
Refl ctive Tape..... 219  
Relays.....64  
Remote Fill Tanks ..... 143  
Remote Reservoir..... 23, 163  
Remote Starter ..... 40, 213  
Residual Check Valves..... 24  
Return Springs ..... 126-128  
Ride Height Blocks..... 232  
Ride Height Set-Up Stick ..... 233  
Ring and Pinion  
    Set ..... 139  
    Installation Kits ..... 138  
Ring Gear Spacer..... 139  
Ring Terminals..... 62, 66  
Rivets..... 90-92  
Rivet Guns..... 206  
Rocker Arm Studs..... 84  
Rock Screen..... 16, 51  
Rod and Piston Holder..... 212  
Rod Ends..... 103  
Rod End Kit, Oversize ..... 167  
Rod End Bushings/Spacers..... 102  
Rod End Centering Tools ..... 232  
Rod Guide Tool ..... 212  
Roll Bar/Cage Kit(s) ..... 31-32  
    Front Arch Support..... 34  
    Front Support Kit..... 34  
    Installation Kit..... 31  
    Rear Support Kit..... 34  
Roll Bar Padding ..... 152  
Roof(s) ..... 16  
    Cap ..... 16  
    Support ..... 16  
Runout Checker ..... 209

**S**  
Safety Glasses ..... 218  
Safety Wire..... 208  
    Drill Fixture ..... 208  
    Twister Pliers ..... 208  
Sanding Discs ..... 208, 229  
Scale Buddy ..... 210

**S (Cont.)**

Schrader Valves ..... 247  
Scoop(s)  
    Dragster..... 13  
    Hood..... 13  
    Mounts..... 13  
    Oil Cooler..... 78  
    Radiator ..... 154  
    Tray ..... 13  
    Tray Mounts..... 127  
Screen, Stainless Wire ..... 10  
Screws, Wheel Rim ..... 241  
Scuff Plates..... 15  
Seal(s)  
    Axle Tube..... 135, 137  
    Hub ..... 132  
    Pinion..... 141  
    Tailshaft Housing..... 239  
    Timing Cover ..... 80-81  
Seat  
    Mount Kits/Brackets..... 33, 151  
    Track Assembly ..... 151  
Seat Belt(s) ..... 151  
    Anchor Plates/Mounts. 33, 151, 157  
    Installation Kits ..... 151  
Sending Units..... 70  
Set Screws ..... 100  
Set-Up  
    Blocks..... 232  
    Book ..... 210, 231  
    Plates..... 232  
    Stick..... 233  
Shackles, Leaf Spring ..... 203  
Shaft Collars..... 167  
Shaker Screen..... 53  
Sharpie Markers..... 226  
Shear Plates ..... 126  
Sheet Metal ..... 9  
Shifter(s) ..... 236  
    Arm..... 236  
    Boot..... 236  
    Cable ..... 237  
Shim(s)  
    Bump steer ..... 170  
    Control Arm ..... 178  
    Pulley ..... 57  
    Shock ..... 185  
Shipping Tape ..... 219  
Shock  
    Boot..... 187  
    Brackets ..... 188  
    Bump Rubbers ..... 184-185  
    Bump Spring Cups..... 184  
    Canister Mounts ..... 183  
    Covers ..... 184-185  
    Extensions..... 186  
    Eye Socket..... 233

**S (Cont.)**

Shock (Cont.)  
    Infla ion Tool ..... 233  
    Protector..... 187  
    Quick Pins ..... 189  
    Racks..... 233  
    Shims..... 185  
    Spacers ..... 197  
    Travel Indicator ..... 182  
    Workstation ..... 233  
Shop Towels..... 220  
Shrinker/Stretche ..... 205  
Side Bell O-Ring..... 139  
Sipers, Tire ..... 228  
Sixth Coil Assembly ..... 198  
Slider Box(es) ..... 201  
    Adjuster ..... 201  
    T-Nuts..... 201  
Smart Tool..... 204  
Snouts ..... 138  
Soap/Cleaners ..... 47  
Sockets  
    Crank ..... 214  
    Lug/Pit ..... 225  
    Quick Change Plug..... 234  
    Shock Eye..... 233  
    Spindle Nut..... 234  
Solder Slugs..... 66  
Solenoid, Starter ..... 68  
    Jumper Wire ..... 68  
Spacer(s)  
    Bolt ..... 102  
    Caliper ..... 19  
    Carb ..... 125-126  
    Crank Mandrel..... 56  
    Engine/Motor Mount ..... 89  
    Fan..... 54  
    Rack and Pinion ..... 170  
    Rod End..... 102  
    Shock 90/10 Kit ..... 192  
    Tapered..... 102  
    Thermostat Housings ..... 57  
    Tie Rod ..... 170  
    Upper Link Kit..... 192  
    Wheel..... 170  
Spark Plug  
    Boot Protectors ..... 74  
    Gap Tool ..... 213  
    Indexing Shims..... 74  
    Indexing Tools ..... 74  
    Wire looms..... 74  
    Wire Retainers..... 74  
    Wire Sets ..... 74  
Spindle(s)..... 171-172  
    Checkers ..... 207  
    Ducts ..... 22  
    Nut Kits..... 132  
    Nut Socket..... 234



**S (Cont.)**

Spindles (Cont.)  
Reamers ..... 207  
Savers..... 172  
Spoiler(s)..... 17  
Brackets ..... 17  
Hinges ..... 17  
Supports..... 17  
Spools ..... 140  
Spoons, Tire ..... 229  
Sprayers ..... 218  
Spring  
Cups ..... 181, 203  
Ramp ..... 179  
Pre-loader..... 187  
Pre-loader Adapter (5")..... 187  
Shims/Spacers..... 181, 186  
Spring Steel..... 12  
Drill..... 205  
Punches..... 205  
Shrink Sleeve..... 12  
Stack Stands..... 223  
Stagger  
Gauge ..... 230  
Tape..... 226  
Starter(s)..... 68  
Cover ..... 68  
Solenoid ..... 68  
Switches/Buttons ..... 71  
Steel  
Angle and Flat Stock ..... 38  
Balls ..... 103  
End Caps ..... 40  
Plate ..... 31, 33  
Tubing..... 36-37  
Steering  
Arms, (Sprint Car)..... 160  
Box Mounts (Sprint Car)..... 157  
Centerlinks..... 168  
Column Brackets..... 167  
Flange Bearing ..... 167  
Loading Coupler..... 166  
Pitman Arms..... 168  
Quickener Bracket..... 167  
Rack Boot Cover ..... 169  
Rod End Kit, Oversize ..... 167  
Rod End Mounting Tab..... 167  
Shaft ..... 167  
Shaft, Collapsible ..... 167  
Shaft Collar..... 167  
Tie Rod Ends ..... 169  
Wheel Disconnects ..... 166  
Wheel Extensions..... 166  
Wheel Hook ..... 166  
Wheel Pads ..... 166  
Step Drill Set ..... 205  
Storage Cases..... 217  
Storage Tote..... 230

**S (Cont.)**

Stretch Wrap ..... 231  
Surface Guard Tape ..... 219  
Suspension Limiter ..... 199  
Suspension Limiter Chain ..... 199  
Suspension Set-up Tool..... 183  
Suspension Tubes..... 194-195  
Sway Bar  
Adjuster Kits ..... 182  
Arms ..... 182  
Bolts ..... 182  
Sweatshirts..... 248  
Swing Arms ..... 201  
Switch Panels..... 71

**T**

Tabs, Chassis ..... 39  
Tachometer Mount (Tel Tac)..... 70  
Tail Light Decal Kit ..... 29  
Tailshaft Seal and Bushing..... 239  
Tank(s)  
Air ..... 225  
Breather..... 79, 143  
Oil Primer..... 212  
Overfl w, Radiator..... 59  
Power Steering ..... 165  
Remote Fill..... 145  
Tank Heaters ..... 78  
Tap(s) ..... 208  
Tape..... 219-220  
Gun ..... 219  
Tape Measures..... 226, 232  
Taper Reamers..... 207  
Tapered Spacers..... 102  
Tear-Off Machine ..... 148  
Tear-Off Posts ..... 148  
Telescoping  
Magnet ..... 214  
Mirror ..... 214  
Temperature Gauge Adapters..... 59  
Temperature Switches ..... 68  
Temperature Tees..... 120  
Terminal Connectors ..... 62  
Test Leads ..... 61  
Test Light..... 63  
Tether, Drag Link ..... 160  
Thermostat Housing(s)..... 57  
Gasket ..... 85  
In-line..... 57  
Restrictors ..... 58  
Spacer ..... 58  
Throw-out Bearing Bleeder Kit ..... 115  
Transmission Coolers..... 237  
Threaded Inserts ..... 97  
Threaded Insert Tool..... 97  
Third Link(s) ..... 192-193  
Brackets ..... 191  
Thread Files..... 208

**T (Cont.)**

Thread Sealant Tape ..... 220  
Threaded Tube Ends..... 37  
Throttle  
Bell Crank ..... 156  
Bushings..... 130  
Cable ..... 129  
Linkage Kits..... 128  
Pedals..... 129  
Quick Release Ends ..... 128  
Return Springs ..... 128  
Return Spring Bracket..... 126-128  
Tie Down Straps..... 222  
Tie Down Brackets ..... 222  
Tie Rods ..... 169  
Tie Rod Spacer ..... 170  
Tie Rod Stud ..... 170  
Tie Rod Tubes ..... 169  
Tie Wraps  
Mounting Bases ..... 93  
Nylon ..... 93  
Stainless Steel..... 93  
Tool ..... 93  
Timing Chain Cover(s) ..... 80-81  
Gaskets ..... 85  
Seals..... 80  
Timing Pointers ..... 81  
Tin Snips..... 204  
Tire  
Bead Breakers..... 229  
Cleaner ..... 47  
Covers ..... 231  
Crayons ..... 246  
Durometer..... 247  
Gauge ..... 246  
Gauge Holder ..... 246  
Grinding Discs ..... 229  
Groovers, Heated ..... 230  
Log Books ..... 231  
Log Decals ..... 226  
Markers..... 246  
Needler/Perforator Tool..... 227  
Prep Stands..... 227-228  
Sipers ..... 228  
Soap ..... 47  
Softener..... 49  
Spoons ..... 229  
Tape Measure..... 226  
Temp Gauge ..... 246  
Wrap ..... 93  
Titanium  
Fastener Kits ..... 155-163  
Toe Plates..... 232  
Toggle Extensions..... 71  
Toggle Switches ..... 71  
Tool Tray ..... 215  
Top Wing Trees..... 159  
Torque Ball Blanket ..... 155



**T (Cont.)**

Torque Converters..... 238  
Torque Tube Belt..... 155  
Torsion Arms..... 161  
Torsion Arm Stop..... 161  
Torsion Arm Stop Kit..... 161  
Torsion Bar Bushings..... 161  
Totes  
    Gear..... 235  
    Storage..... 230  
Tow Hooks..... 30  
Towel(s)..... 220  
    Holders..... 220  
Track Bar Locator Brackets..... 42  
Track Mats..... 223  
Trailing Arm(s)..... 202  
    Brackets..... 200-202  
    Bushings..... 197  
Transfer Punches..... 207  
Transmission  
    Blanket..... 238  
    Breather Kit..... 237  
    Dipsticks..... 237  
    Mount..... 239  
    Stand..... 211  
    Yokes..... 239  
Trays  
    Can..... 221  
    Gear Tote..... 235  
    Oil Bottle..... 221  
Tube Clamps..... 46  
Tube Nuts..... 108, 116  
Tubing  
    Aluminum..... 38  
    Cutters..... 209  
    End Caps..... 40  
    Notcher..... 204  
    Steel..... 36-37  
    Threaded Ends..... 37

**U**

U-Bolts  
    Leaf Spring..... 203  
    U-Joint..... 141  
U-Joint(s)..... 141  
    U-bolt Kits..... 141  
Umbrella..... 249  
Underwear..... 146  
Universal Brackets..... 45  
Upper Link(s)..... 192-193  
    Brackets..... 191  
    Spacer Kits..... 192  
Upper Lube..... 49  
Utility Jugs..... 215

**V**

Vacuum Line..... 118

**V (Cont.)**

Valve  
    Core..... 247  
    Core Tool..... 225  
    Lash Wrenches..... 213  
    Seals..... 84  
    Spring Compressor..... 213  
    Stem Puller..... 225  
    Stems..... 247  
    Stem Caps..... 247  
Valve Cover(s)..... 82  
    Breathers..... 82  
    Gaskets..... 82  
    Hold Down Fasteners..... 82  
V-Belts..... 56

**W**

Warning Lights..... 70  
Washers  
    Back-Up..... 92  
    Crush..... 110  
    Fender..... 99  
    Flat..... 101  
    Locking..... 101  
Water Necks..... 57  
Water Neck Spacer..... 57  
Water Pressure Warning Kit..... 70  
Water Pump(s)..... 55, 57  
    Block Adapters..... 57  
    Cam Stop Kit..... 55  
    Gaskets..... 85  
    Pulley Kits..... 55-56  
    Spacer Kits..... 55  
Weather Pack Connector(s)..... 61  
    Pliers..... 217  
    Terminal Tool..... 217  
Weight Jack  
    Bolts..... 180  
    Jam Nuts..... 180  
    Plate..... 180  
    Sleeves..... 180  
Weld Bungs..... 109  
Weld-On Nuts..... 40  
Wheel  
    Adapter..... 243  
    Bearings..... 131  
    Bearing Grease..... 131  
    Bearing Seal..... 131  
    Bearing Spacer..... 132  
    Covers/Fasteners..... 240-241  
    Cover Holder..... 240  
    Rim Screws..... 241  
    Spacers..... 243  
    Studs..... 242  
    Stud Drill Bit..... 242  
    Stud Thread Chaser..... 242  
    Wrench (Sprint)..... 225  
Wheelie Bar Wheels..... 203  
    Bracket Kit..... 42

**W (Cont.)**

Wheelie Bar Wrenches..... 216  
Wide Open Throttle Switch..... 127  
Window Dial-In Marker..... 47  
Window Net(s)..... 153  
    Installation Kits..... 152  
Windshield..... 16  
    Cleaner/Polish..... 47  
    Material..... 10  
    Mounting Kit..... 100  
    Support..... 16  
    Support Bar..... 33  
Wing  
    Adjuster, Manual..... 159  
    Caps..... 158  
    Cylinders..... 159  
    Cylinder Line Kit..... 159  
    Posts..... 158  
    Tree..... 159  
    Wall Mount Brackets..... 221  
Wipes, Hand Cleaning..... 220  
Wire  
    Connectors..... 61-62  
    Cutters..... 217  
    Heat Shrink..... 63  
    Primary..... 60  
    Loom..... 60  
    Pliers..... 217  
    Safety..... 208  
    Terminals..... 61-62, 66  
Wire Tie(s)  
    Mounting Bases..... 93  
    Nylon..... 93  
    Stainless Steel..... 93  
    Tool..... 93  
Wrecker Hook-up Kit..... 27  
Wrench(es)  
    Aluminum Adjustable..... 216  
    AN Fitting..... 216  
    Ball Joint..... 232  
    Lug..... 225  
    Nitrous Combination..... 216  
    Pinion Yoke..... 234  
    Quick Turn..... 207  
    Valve Lash..... 213  
    Wheelie Bar..... 203

**Y**

Yokes..... 239  
    Seals..... 239  
    Wrench..... 234

**Z**

Zip Tie(s)  
    Mounting Bases..... 93  
    Nylon..... 93  
    Stainless Steel..... 93  
    Tool..... 93



**ALLSTAR**  
PERFORMANCE **Employee**  
**R&D Team**



Bob Baldwin



Bob Martin



Brandon Zachary



Brent Abrams



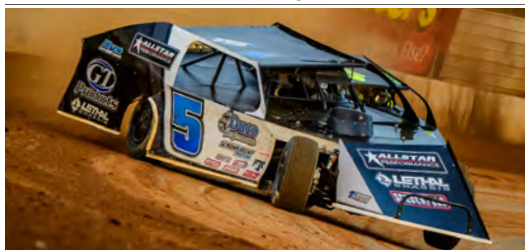
Carly Truhler



Jim Ragosta



Craig Mullauer



Curt Spalding



Brian Robbins



Doug Needles (son Steve)



Nick Burch



Jason Koehler



Nick LeVeck

ALLSTAR R&D TEAM



**★ ALLSTAR**  
PERFORMANCE **Employee**  
**R&D Team**



Scott Wahlstrom



Jim Kaekel



Joe Petlick



Kyle Hemenway



Mike Zordan



Matt Kemp



Rich Farnsworth



Ryan Disterheft



Tim Conrad



Bryan Postelli



Tom Rutherford



CJ Milliken

ALLSTAR R&D TEAM





## Returns

To make sure that the item(s) get quickly processed, please follow these simple steps.

1. Call and request an RGA (Returned Goods Authorization) number for the merchandise you wish to return. All merchandise to be returned must be accompanied by an RGA number and be in its original packaging. The product must be unused, unaltered and unchanged from its original state (unless it is a potential warranty issue). Any merchandise returned that does not meet this criteria may be subjected to an additional handling fee or refusal.
2. Pack the parts carefully to avoid any damage during shipping. Always use a sturdy shipping carton to ship the parts back. Print your RGA number on the outside of the shipping carton. Please do not write on, use tape, or affix shipping labels to the product package itself, because we must return it to stock and we can't sell a box that is defaced.
3. We need the invoice number or, better yet, a copy of the original invoice showing when the part was purchased. Please include this information with the merchandise you're returning. We're sorry, but we can not accept returns on custom-built items.

## Warranty

Allstar Performance® warrants each new product to be free from defects in both workmanship and materials for a period of ninety (90) days from the date of purchase. Product in question should either be returned to the dealer from which it was purchased, or shipped directly to Allstar Performance® along with an RGA (see above), proof of purchase and a complete description of the problem. The product must be returned freight pre-paid; COD's will not be accepted. No parts will be reviewed for inspection if modifications have been made. If, after factory inspection, the part is deemed to be defective, it will be replaced or a refund check will be issued.

## Disclaimer of Warranty

### ALLSTAR PERFORMANCE makes no warranties...

Allstar Performance products are designed for Off-Road use and makes no written, oral, expressed, or implied statement of warranty or guarantee on any product sold. Allstar Performance will not assume liability for personal or property damage resulting from the use or misuse of any product we manufacture or sell. Purchase and/or use of these products implies recognition and acceptance of this entire warranty and disclaimer by customer.

## Printing Disclaimer...

Allstar Performance reserves the right to update, change or modify any product or policy deemed necessary without notice. Every effort has been made to avoid printing errors, in this catalog and previous versions. We disclaim any responsibility for application or specification errors.

## Items That Require Additional Shipping Charges

Some items in this catalog are too large for ground shipment and therefore must be shipped via truck freight (pre-paid), some of these items may also include a shipping pallet surcharge. Throughout this catalog, the parts that require truck freight or a pallet for shipment will be marked with an appropriate icon.

**Note:** Some packages and/or shipments may be subject to the application of dimensional weight when calculating freight charges. Dimensional weight, when applied, may be significantly greater than the actual weight of a package and/or shipment and generally applies to products which are not very heavy, but large in volume (LxWxH).



Zack VanderBeek





www.allstarperformance.com

**PART NUMBER AND KEYWORD LOOKUP**

Type a part number or keyword into the search field to quickly locate parts.

Welcome to Allstar Performance! Who's Winning Contact Us 269-463-8000 Sign in or Register

**ALLSTAR PERFORMANCE**

HOME DEALER NEAR YOU PRODUCT INFO NEWS TERMS AND POLICIES MEDIA SPONSORSHIP INFO

CATEGORIES

- Drag Race Parts
- Hot Rod - Street
- Road Race
- Circle Track - Asphalt
- Circle Track - Dirt
- Open Wheel - Sprint Car
- Off-Road & Tractor Pulling
- All Categories

RECENT POSTS

**Heated Tire Groover ALL10260**

[No reviews yet] [Write a Review](#)

SKU: ALL10260

QUANTITY: 1

[ADD TO WISH LIST](#)

DESCRIPTION SPEC SHEET INSTRUCTION SHEET

**WARNING:** This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, birth defects, and other reproductive harm. For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

Groovers add extra traction in minutes. Tapered, razor sharp blade grooves fast and easy. To operate, insert a blade into groover, set blade height with a tire depth gauge and set the power level. Triggerless activation by placing the cutting edge against the tire surface and apply pressure to activate rocker switch, built into head, creating instant heat.

**PRODUCT INFORMATION SHEETS**

Opens a printable PDF with detailed information of each item.

**ALLSTAR PERFORMANCE**

Part No. ALL10260  
ALL10590

**Heated Tire Groovers**

Groovers add extra traction in minutes. Tapered, razor sharp blade grooves fast and easy. To operate, insert a blade into groover, set blade height with a tire depth gauge and set the power level. Triggerless activation by placing the cutting edge against the tire surface and apply pressure to activate rocker switch, built into head, creating instant heat.

Part No. Description

ALL10260 110V Groover - features a 4 level dial and a half switch providing 8 total heat settings. Includes 2 each 4/32" 6/32" 8/32" and 10/32" flat blades.

**Replacement Parts For ALL10260:**

ALL99303 Clamping Nuts, 1-Pair  
ALL99304 Clamping Screws, 1-Pair  
ALL99305 Cradle Springs, 1-Pair  
ALL99306 Grip Pads, 3-Pair  
ALL99307 Hex Wrench

ALL10590 220V Groover Intended For International Use. Features a 4 level dial and a multi-positional dial for fine tuned heat settings. Power cord requires the attachment of a 220 volt, grounded, 3 prong plug (not included). Includes 2 each 4/32" 6/32" 8/32" and 10/32" flat blades.

**Replacement Parts For ALL10270 & ALL10590:**

ALL99104 Terminal Lacer Kit  
ALL99105 Head Assembly  
ALL99106 Front Pads With Screws, 3-Pair  
ALL99107 Blade Parts With Screws, 3-Pair  
ALL99127 Head Blade Divider

ALL99104 ALL99105 ALL99106 ALL99107 ALL99127

All Blades Sold in Packages Of 12

Flat Bottom Blades	Round Bottom Blades	Heavy Duty Flat Bottom Blades
ALL10271 #3 Flat, 3/32"	ALL10267 #1 Round, 1/32"	ALL10580 #16 Flat, 16/32"
ALL10272 #4 Flat, 4/32"	ALL10268 #2 Round, 2/32"	ALL10582 #20 Flat, 20/32"
ALL10273 #6 Flat, 6/32"	ALL10269 #3 Round, 3/32"	ALL10584 #24 Flat, 24/32"
ALL10274 #8 Flat, 8/32"	ALL10270 #4 Round, 4/32"	ALL10586 #32 Flat, 32/32"
ALL10275 #10 Flat, 10/32"	ALL10277 #6 Round, 6/32"	
	ALL10278 #8 Round, 8/32"	
	ALL10279 #10 Round, 10/32"	

Allstar Performance 8300 Lane Dr., Watervliet, MI 49098  
Phone: (269) 463-8000 Fax: (800) 772-2618 www.allstarperformance.com

**INSTRUCTION SHEETS**

Opens a printable PDF with detailed installation and operation instructions.

**ALLSTAR PERFORMANCE**

**ALL10260 Tire Groover With Blades**

**INSTRUCTIONS**

**BLADE INSERTION** - With blade clamp screws loosened by one half turn, slide blade cradles (blocks with blade stops) together or apart to roughly match the blade to be inserted. Squeeze blade to align blade legs with the slots of the cradles. Push blade legs down into slots and then slide blade legs under blade clamps. Adjust blade to desired cutting depth. Slide blade and cradle assembly left or right to center blade. Lightly tighten blade clamp screws to lock blade in place. Over tightening will shorten life of the blade cradle and clamp.

**BLADES** - A sharp blade will allow you to cut easier, faster, and with less force. A dull or damaged blade should be replaced. Avoid smoke because this indicates excessive heat which will shorten blade life.

**POWER LEVELS** - Always cut with the lowest possible power setting. This groover has eight power options; four within the high and four with the low range. Rubber durometer, blade size, depth of cut and speed of cut are all variables that will affect your power level selection. Start with a lower power setting and adjust higher if necessary.

**GROOVING** - No warm up time is needed. Place the cutting edge of the blade against the tire. Angle the tool so the blade will cut the rubber. The groover will automatically activate when the operator applies cutting pressure. As the blade cuts into the rubber, allow the stabilizer blade pads to flatten against the tire. This will stabilize the tool at the proper cutting angle and enable the operator to cut at a consistent depth.

**CLEANING AND MAINTENANCE** - For optimum performance, the head should be cleaned daily or more often under heavy use. Remove the blade and with the clamping screws loose, spray the head assembly with a solvent such as carburetor or brake clean. Use compressed air to dry and remove any debris from head.

All Blades Sold in Packages Of 12

Flat Bottom Blades	Round Bottom Blades	Heavy Duty Flat Bottom Blades
ALL10271 #3 Flat, 3/32"	ALL10267 #1 Round, 1/32"	ALL10580 #16 Flat, 16/32"
ALL10272 #4 Flat, 4/32"	ALL10268 #2 Round, 2/32"	ALL10582 #20 Flat, 20/32"
ALL10273 #6 Flat, 6/32"	ALL10269 #3 Round, 3/32"	ALL10584 #24 Flat, 24/32"
ALL10274 #8 Flat, 8/32"	ALL10270 #4 Round, 4/32"	ALL10586 #32 Flat, 32/32"
ALL10275 #10 Flat, 10/32"	ALL10277 #6 Round, 6/32"	
	ALL10278 #8 Round, 8/32"	
	ALL10279 #10 Round, 10/32"	

Allstar Performance 8300 Lane Dr., Watervliet, MI 49098  
Phone: (269) 463-8000 Fax: (800) 772-2618 www.allstarperformance.com

Form 1187 Page 1 of 2 Rev 07/19/17



8300 LANE DRIVE  
WATERVLIET, MI 49098  
269-463-8000

