



EXTERNAL BUMP STOP KIT INSTALLATION AND MAINTENANCE

Installation On Front Of Car

1. Determine the best mounting location for the bump stop by holding unit in position against the lower control arm strut and front hoop. While holding unit in position check for tire swing clearance and interference with headers, brake calipers and brake fittings.
2. Mount unit as upright as possible. However, the bump stop will work properly if mounted at an angle.
3. Mount bump stop tube to control arm strut as close as possible to the control arm. If car has aluminum struts, it is recommended they be replaced with steel struts. Bump stops experience "spike load" when the car drops. Because of this, the control arm strut mount should be substantial. Ideally, the strut should be attached to the lower control arm with double shear brackets.
4. Bump stop can be attached to the strut rod rod by welding a shock mount to the strut or with a clamp-on mount.
5. Bump stop should be attached to the front hoop or a front hoop upright tube. Unit can be mounted by welding a shock mount to the hoop, welding a "spud" through the hoop or with a clamp-on bracket.
6. Once mounting brackets are attached, place 2" high blocks under the front sub frame on both sides. Jack up the car, disconnect coil overs and set car on blocks.
7. Hold bump stop in position and verify overall length is correct for car. When correctly installed there should not be any free play between top of tube and the bottom bushing plate. Note: When adjusting rod ends verify rod end stud threaded into the tube does not limit travel of the shaft. End of bump stop shaft should not bottom out in bump stop tube. When adjusting rod ends out, always leave a minimum of 1/2" thread engaged in tube and shaft.
8. Upper spring bushing plate is threaded. To adjust position of bushing plates up or down, loosen the jam nut and rotate bushing plates on shaft. Before bolting bump stop to car, position bushing plate in the center of threads on shaft. This allows bushing plate to be adjusted up or down.
9. Bolt bump stop to the mounts, reattach coil overs, remove 2" spacer blocks and set car back down on the ground.
10. Suspension drop can be controlled by adjusting bushing plates up and down. Bump stop travel is measured using travel indicator. Optimum settings will vary from car to car and track to track and can only be determined by on-track testing. Typical bump stop travel on the front end is 3/4".

Maintenance

1. Periodically clean bump stop and spray WD40 (or similar product) on bump stop shaft.
2. Periodically check poly bushings for wear, cracking and/or noticeable color changes. If any problems are found, replace the bushings.
3. Periodically inspect rod ends and fasteners for tightness, wear or damage.

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