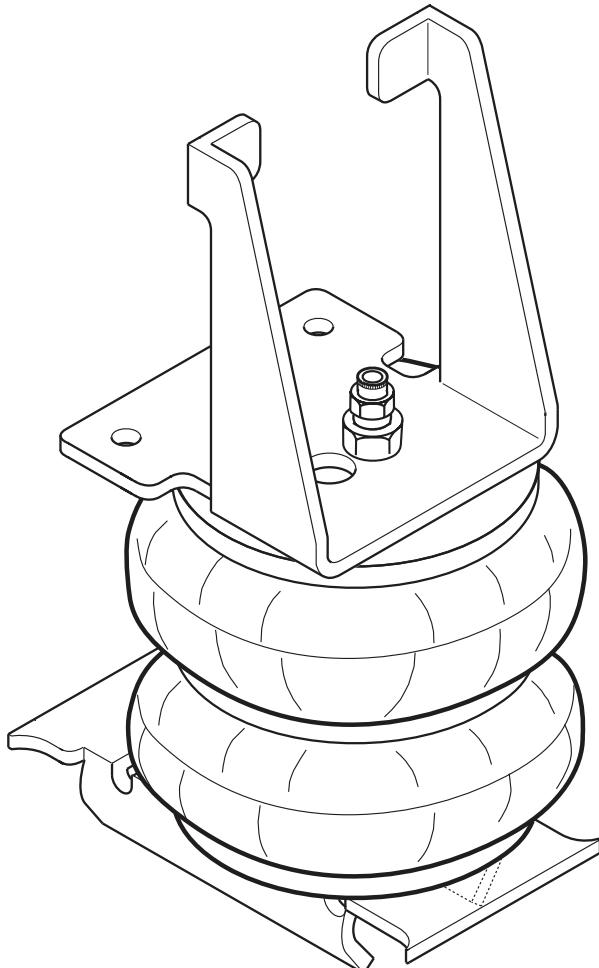




81234004 DODGE RAM 1500-2500-3500

Congratulations - your new TowPro Helper Springs are quality products capable of improving the handling and comfort of your vehicle. As with all products, proper installation is the key to obtaining all of the benefits your kit is capable of delivering. Please take a few minutes to read through the instructions to identify the components and learn where and how they are used. It is a good idea to start by comparing the parts in your kit with the parts list below.



Components	Part#	QTY
AIR SPRING	6401	2
UPPER BRACKET	5369	2
LOWER BRACKET	5370	2
AXLE BRACKET	5181	2
HEAT SHIELD	1004	1
18 ft. TUBING	0938	1
THERMAL SLEEVE	0899	2

Hardware

3/8"-16 BAIL CLAMP	3292	2
5/16" FLAT WASHER		4
3/8"-16 X 3/4" FLANGE LOCK		2
3/8"-16 FLANGE NUT		4
3/4"-16 HEX NUT		2
3/4" STAR WASHER		2
10MM X 30MM FLAT HD BOLT		4
NYLON TIE WRAP		6
CAUTION TAG		2

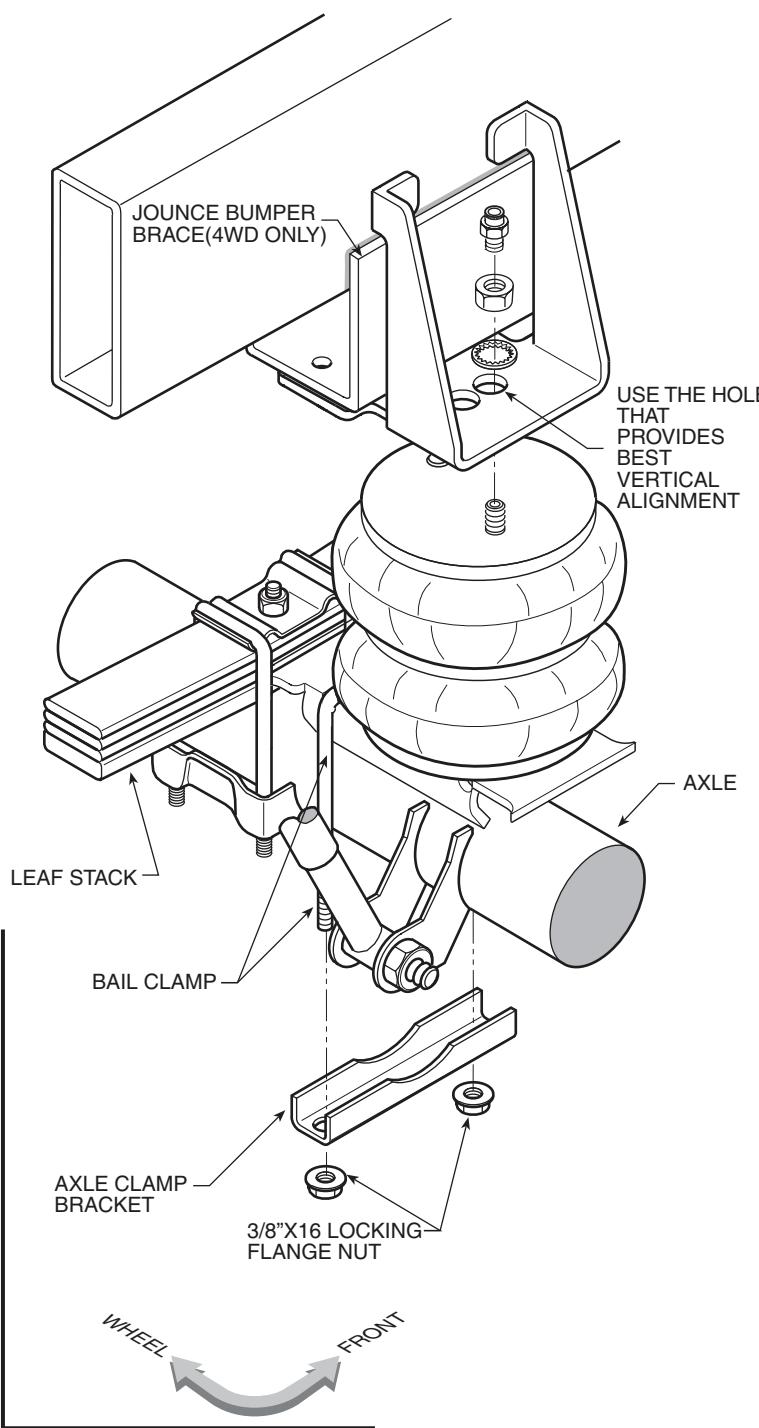
WARNING!

Do not inflate this assembly when it is unrestricted. The assembly must be restricted by the suspension or other adequate structure. Do not inflate beyond 100 P.S.I. Improper use or over inflation may cause property damage or severe personal injury.

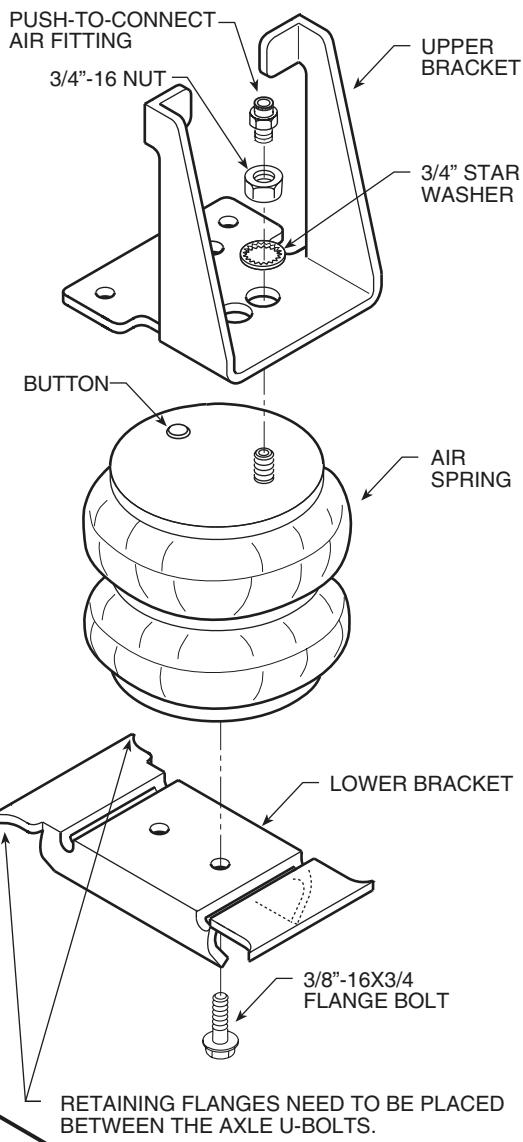
FIGURE "A"

NOTE: Both illustrations are of the left, or drivers side, of the vehicle. Reverse any orientations when assembling and installing the right, or passenger, side of the vehicle.

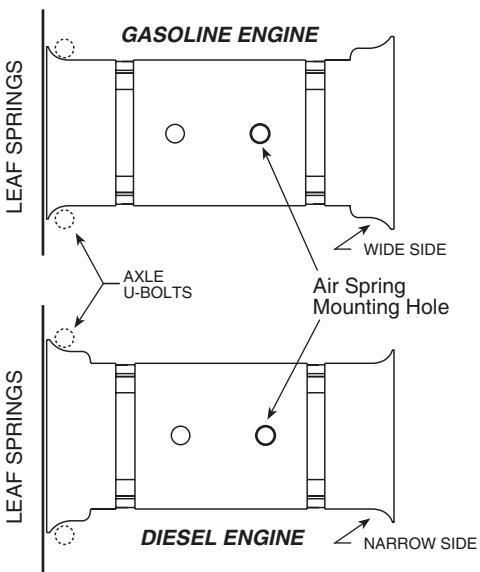
NOTE: 4X4 SHOWN, USE SAME PROCEDURES ON 2WD. THE JOUNCE BUMPER BRACE ON 4WD WILL NOT INTERFERE WITH INSTALLATION.



KIT ASSEMBLY



AXLE Lower Bracket Orientation



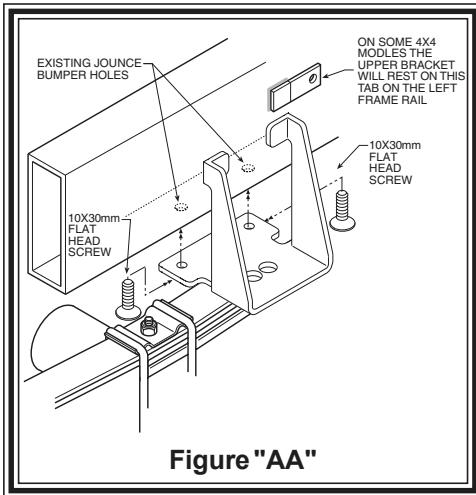


Figure "AA"

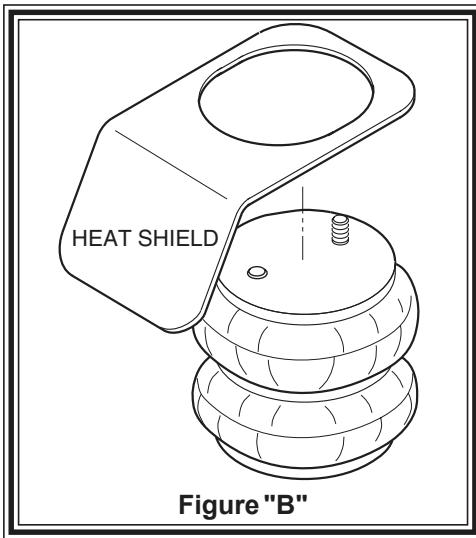


Figure "B"

NOTE:

Please read thorough this manual completely before installing the air spring kit to your vehicle.

STEP 1 - PREPARE THE VEHICLE

With the vehicle on a solid, level surface chock the front wheels. Remove the positive battery cable. Your vehicle is equipped with rubber jounce bumpers. The jounce bumpers are bolted to the frame above the axle. Remove the jounce bumpers from the vehicle.

STEP 2 - PRE-ASSEMBLE THE KIT

Select a lower bracket from your kit and determine which side of the bracket fits most snugly between the axle U-bolts as shown in **Figure "A"**. **NOTE: The two different widths on the ends of the bracket.** It will be necessary to tilt the bracket to properly slide the brackets retaining flange between the U-bolts and the leaf stack. Remove the bracket from the axle and mark which side fit between the U-bolts. Select one air spring from the kit and install the air spring to the lower bracket with one 3/8-16 X 3/4" flange head bolt finger tight, *see Figure "A"*. Next, install the male fitting into the air inlet in the combo stud of the air spring. Tighten the air fitting securely to engage the orange thread sealant.

STEP 3 - INSTALLING THE ASSEMBLY TO THE VEHICLE

Select an upper bracket from the kit and install it in place of the jounce bumper using two 10mm X 30mm flat head screws tightened securely, *see Figure "AA"*. The 2wd and the 4X4 mount in the same fashion. The 2wd will mount directly to the frame. The 4X4 will mount to the jounce bumper brace. Position the lower bracket and air spring assembly from Step 2 on the axle as shown in **Figure "A"**. Make sure the large threaded stud and the button on the top of the air spring protrudes **through the holes that provide the best vertical alignment** of the air spring. Tighten the 3/8"-16 flange bolt on the lower bracket from step 2. Fasten the lower bracket to the axle housing using the bail clamp and the axle clamp bracket and two 3/8"-16 locking flange nuts securely, *see Figure "A"*. The bail clamp

should fit in the locating notches in the lower bracket. Attach the top of the air spring with the 3/4-16 hex nut and 3/4" star washer. You must maintain a minimum of 1/2" clearance around the air spring for proper operation. Once the bracket orientation has been set, tighten the 3/8"-16x3/4" hex head bolt in the lower bracket securely.

STEP 4 - INSTALLATION OF THE PASSENGER'S SIDE ASSEMBLY

Follow steps 1-3 with reverse orientations for assembly and installation of the passenger's side assembly. The heat shield is mounted between the upper bracket and the top plate of the air spring, *see Figure "B"*. Position the heat shield directly between the closest heat source and the air spring. Ensure that the heat shield will not interfere with normal operation of the air spring or the vehicle's suspension. Do not position the heat shield directly above the axle, as it may contact the axle on full suspension travel.

STILL HAVE QUESTIONS?

Tech line hours

Monday - Friday 8Am - 6PM (EST) 812-482-2932



