

INSTALLATION INSTRUCTIONS

Congratulations - your new Air 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.

The heart of the air spring kit is, of course, the air helper springs. Remember that the air helper springs must flex and expand during operation, so be sure that there is enough clearance to do so without rubbing against any other part of the vehicle.

Be sure to take all applicable safety precautions during the installation of the kit. The instructions listed in this brochure and the illustrations all show the left, or driver's side of the vehicle. To install the right side assembly simply follow the same procedures.

PARTS LIST

AIR SPRING	6766	2	3/4"-16 X 1 3/4" HEX BOLT	2
UPPER BRACKET	5492	2	3/4" LOCK WASHER	2
UPPER FRAME BRACKET	5491	2	3/4" FLAT WASHER	4
LOWER BRACKET	5494	2	3/4"-16 HEX NUT	2
CLAMP BRACKET	5493	2	5/8"-18 JAM NUT	2
BRACKET STRAP	5086	4	5/16" FLAT WASHER	4
HEAT SHIELD	1004	1	18 ft. TUBING	0938 1
3/8"-16 X 1" HEX HEAD BOLT		8	INFLATION VALVE	3032 2
3/8"-16 FLANGE NUT		16	AIR FITTING	3048 2
5/16"-18 X 1" HEX HEAD BOLT		4	NYLON TIE WRAP	7
5/16"-18 FLANGE NUT		4	CAUTION TAG	2
3/8"-16 X 3/4" HEX BOLT		2	THERMAL SLEEVE	2
3/8"-16 X 3-1/2" CARRIAGE BOLT		8		

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 psi. Improper use or over inflation may cause property damage or severe personal injury.

This kit includes inflation valves and air lines for each air spring. This will allow you to compensate for unbalanced loads. If you would rather have a single inflation valve system to provide equal pressure to both air springs, your dealer can supply the optional "T" fitting.

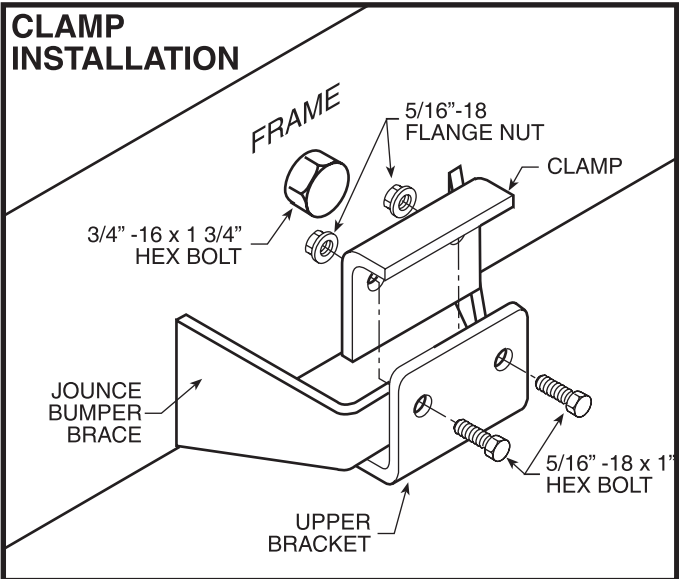
IMPORTANT!

For your safety and to prevent possible damage to your vehicle, do not exceed the maximum load recommended by the vehicle manufacturer (GVWR). Although your Air Helper Springs are rated at a maximum inflation pressure of 100 psi, this pressure may allow you to carry too great a load on some vehicles. It is best to have your vehicle weighed once it is completely loaded and compare that weight to the maximum allowed. Check your vehicle owner's manual or data plate on driver side door for maximum loads listed for your vehicle.

When inflating your Air Helper Springs, add air pressure in small quantities, checking pressure frequently during inflation. The air spring requires much less air volume than a tire and, therefore, inflates much quicker.

TOOLS REQUIRED

- HACK SAW
- (2) 1 1/8" END WRENCH
- (2) 9/16" END WRENCHES
- (2) 1/2" END WRENCHES
- 5/16" DRILL BIT
- 3/8" DRILL BIT
- 1/8" DRILL BIT
- ELECTRIC DRILL
- UTILITY KNIFE OR RAZOR BLADE



KIT TO FRAME ASSEMBLY

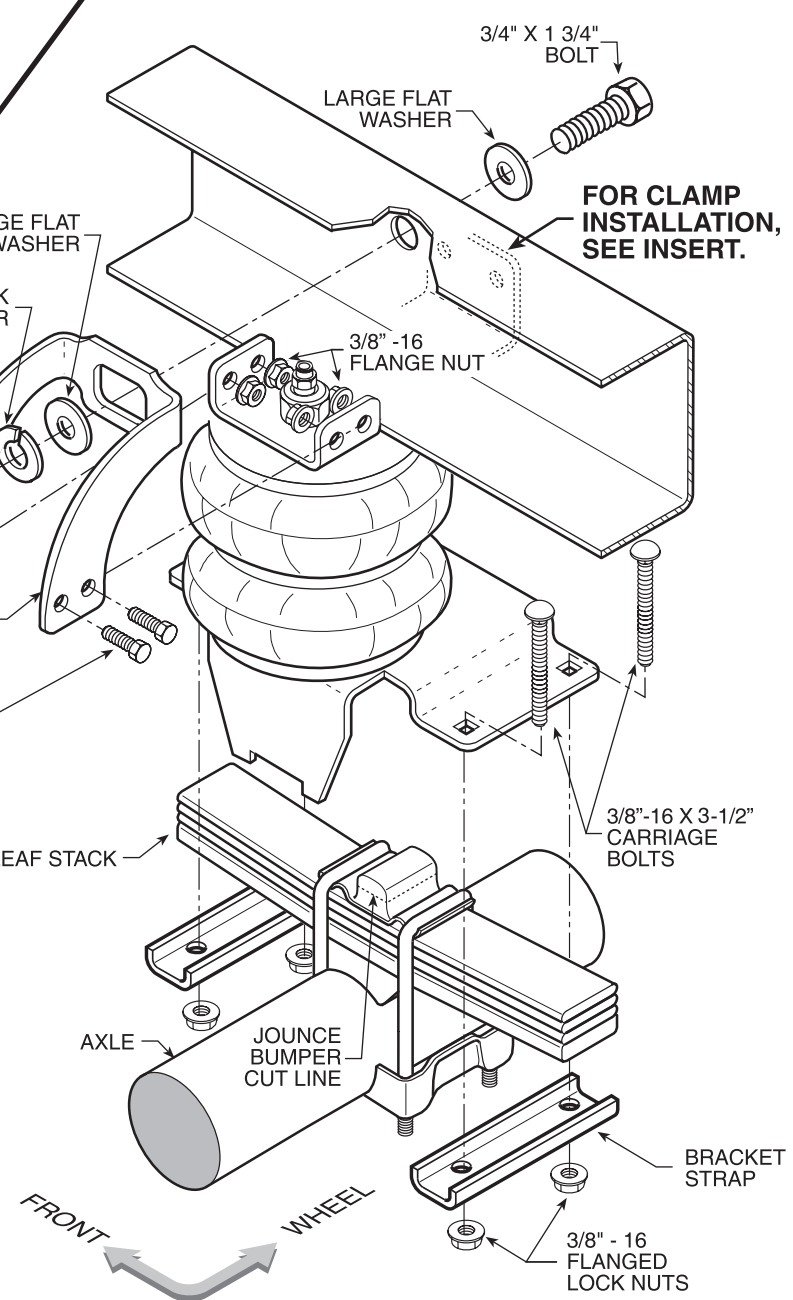
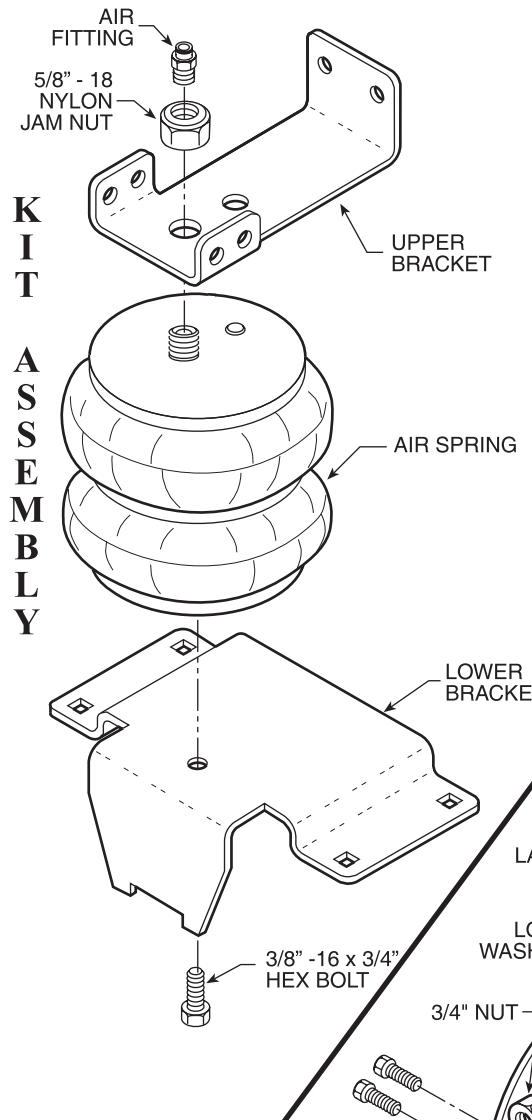


FIGURE "A"



SEE FIGURE "E" FOR HEAT SHIELD INSTALLATION

NOTE: Both illustrations are of the right, or passenger's side, of the truck. Refer to step 3 for the proper lower bracket alignment. Repeat instructions for driver's side installation.

FRONT

WHEEL

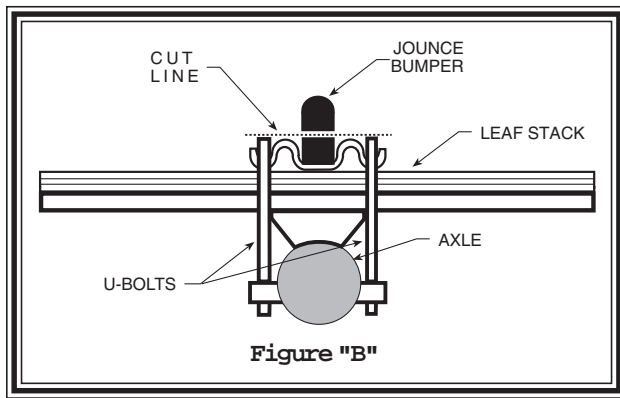


Figure "B"

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 negative battery cable. Raise the vehicle by the axle and remove the rear wheels. After the removal of the wheels lower the vehicle so the axle rests on jack stands rated for your vehicles weight. With a hack saw, cut the jounce bumper located under the frame rail **even with the U-bolts, refer to Figures "A" and "B"**.

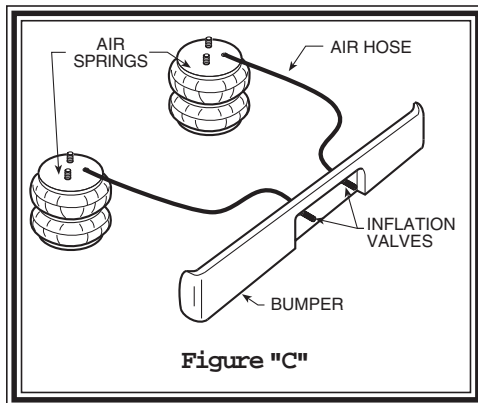


Figure "C"

STEP 2 - PRE-ASSEMBLE THE KIT

Select a lower bracket from the kit and one air helper spring from your kit. Attach the lower bracket to the air spring using a 3/8-16 x 3/4" hex bolt, *see Figure "A"*. Next, select an upper bracket and the heat shield from the kit and install the heat shield between the upper bracket and the air spring. *See Figure "E"*. Attach the upper bracket using 5/8" jam nut. Install the air fitting into the air spring. Tighten the air fitting securely to engage the orange thread sealant, *see Figure "A"*.

STEP 3 - INSTALLING THE ASSEMBLY TO THE VEHICLE

Place the assembly on top of the leaf stack centered over the axle, *see Figure "A"*. Attach the upper frame bracket to the upper bracket with the four 3/8"-16 X 1" hex bolts and hex nuts. Be sure to position the upper frame bracket so the large hole lines up over the large hole on the frame. Install the 3/4"-16 x 1 3/4" hex head bolt, 3/4" washers, 3/4" lock washer, and 3/4"-16 hex nut in the lager hole. Next, install the clamp bracket over the jounce bumper brace and attach it to the upper bracket with two 5/16"-18 X 1" hex bolts and nuts. *See Figure "A"*. Once the position of the upper bracket is fixed, place the 3/8"-16 X 3-1/2" carriage bolts into the square holes in the lower bracket. Place the bracket straps under the leaf spring and attach them to the carriage bolts with the 3/8" flange lock nuts. *See Figure "A"*.

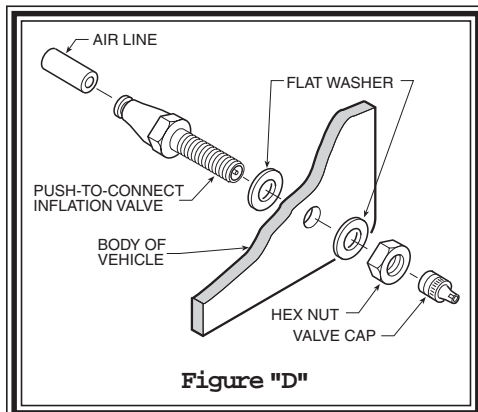


Figure "D"

STEP 4 - INSTALLATION OF THE DRIVER'S SIDE ASSEMBLY

Follow steps 1-3 with reverse orientations for assembly and installation of the drier's side assembly.

STEP 5 - INSTALL THE AIR LINE AND INFLATION VALVE

Uncoil the airline tubing and cut it into two equal lengths. **DO NOT FOLD OR KINK THE AIRLINE TUBING.** Try to make the cut as square as possible. Insert one end of the airline tubing into the air fitting installed in the top of the air helper spring. Push the airline tubing into the fitting as far as possible. Select a location on the vehicle for the air inflation

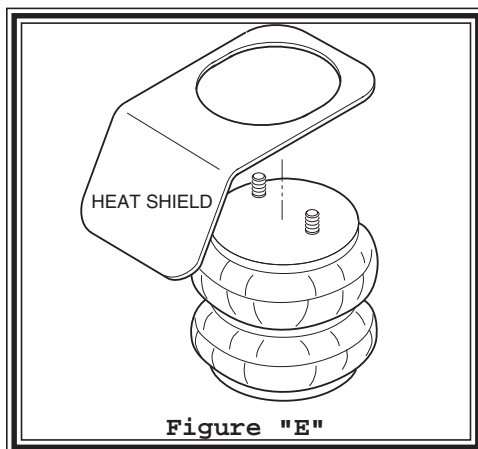


Figure "E"

valves. The location can be on the bumper or the body of the vehicle, as long as it is in a protected location so the valve will not be damaged, but maintain accessibility for the air chuck *see Figure "C" on the next page*. Drill a 5/16" hole and install the air inflation valve using two 5/16" flat washers per valve as supports *see Figure "D"*.

