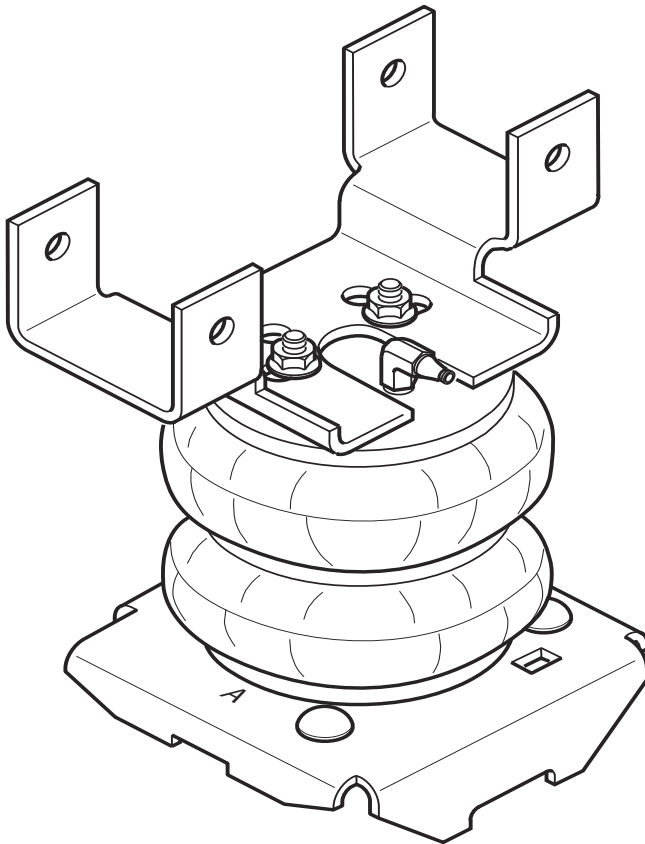




81213006 88-98 GM 1500/2500/3500

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

AIR SPRING	6781	2
UPPER BRACKET	5178	2
LOWER BRACKET	5214	2
FRAME BRACE	5180	2
BRACKET CLAMP	5181	2
HEAT SHIELD	1004	1
AIR LINE TUBBUNG		1

Hardware

THERMAL SLEEVE	2	
TIE-WRAPS		6
5/16" FLAT WASHER	4	
3/8"-16 X 3/4" FLANGE HEAD BOLT		2
3/8"-16 X 4" HEX HEAD BOLT		4
3/8"-16 X 7" CARRIAGE BOLT		4
3/8"-16 FLANGE LOCK NUT		12

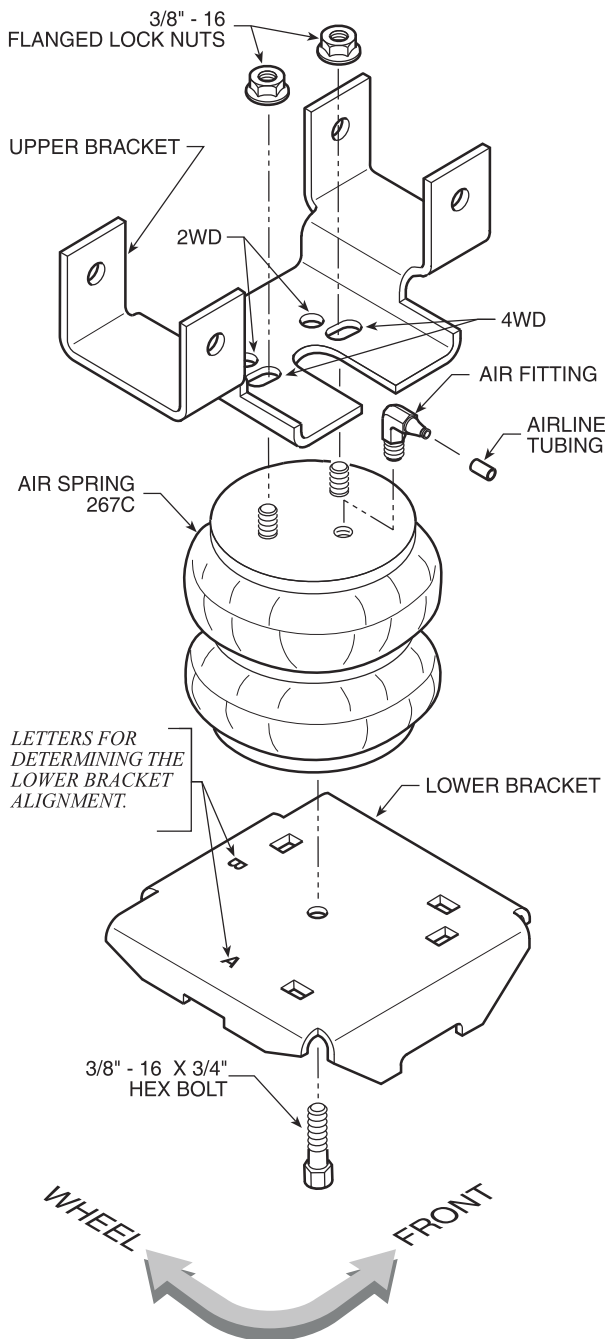
WARNING!

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.

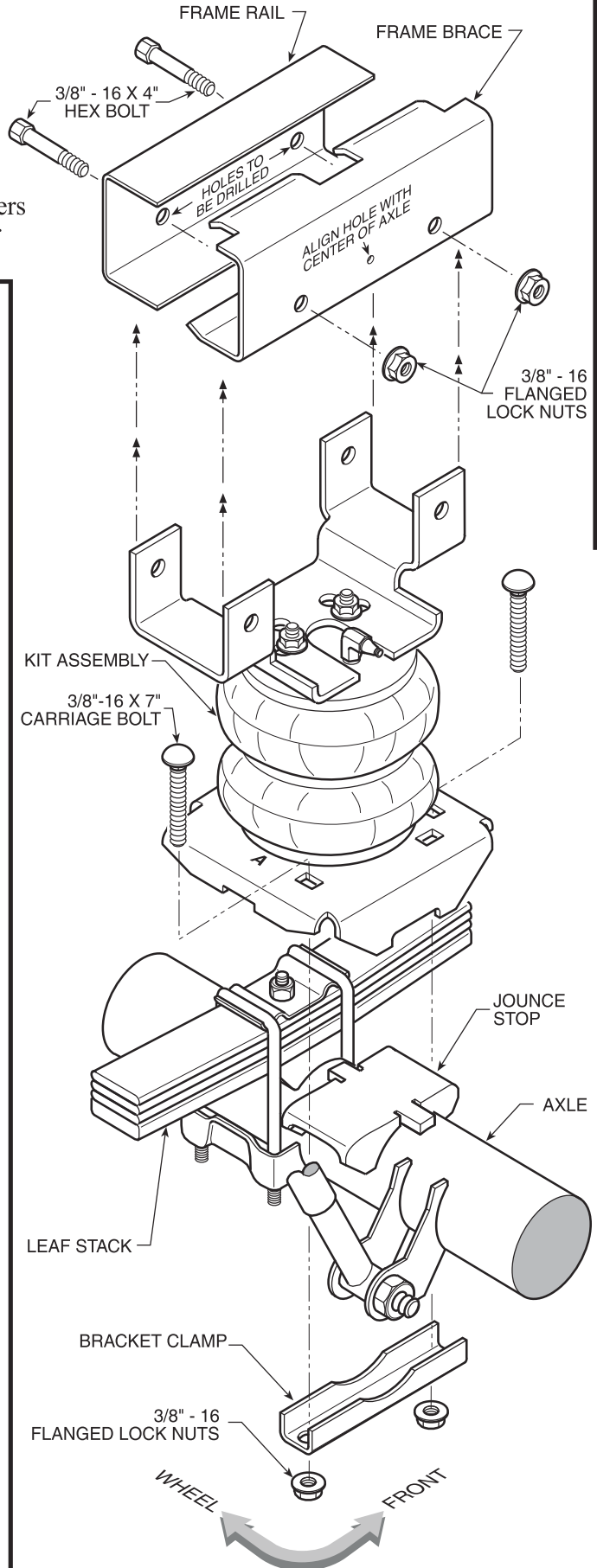
FIGURE "A"

NOTE: Both illustrations are of the left, or drivers side, of the truck. Refer to step 3 for the proper lower bracket alignment.

KIT ASSEMBLY



KIT TO FRAME ASSEMBLY



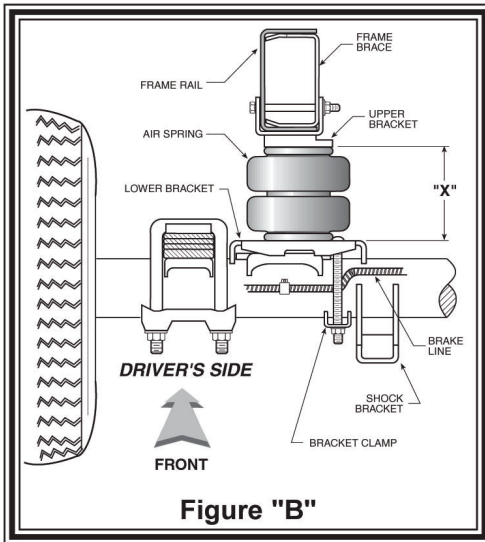


Figure "B"

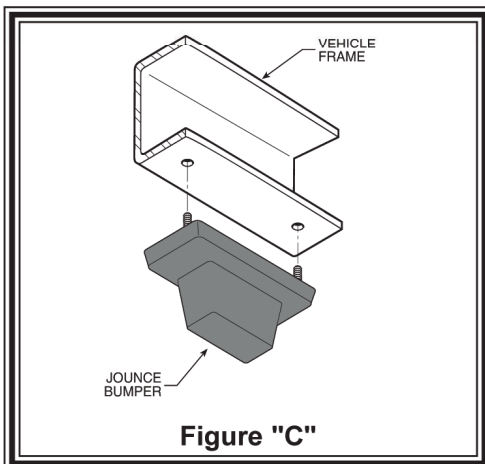


Figure "C"

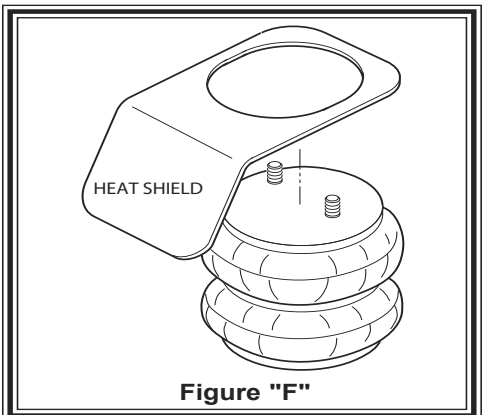


Figure "F"

Important:

In order for the air spring to function properly, there must be 1/2" of clearance around the air spring



STEP 1 - PREPARE THE VEHICLE

With the vehicle on a solid, level surface chock the front wheels. Remove the positive 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. Remove the jounce bumper located under the frame rail *see Figure "C"*.

STEP 2 - PRE-ASSEMBLE THE KIT

NOTE: The illustrations *see Figure "A"* refer to the assembly of the brackets to the air helper spring for 4WD applications.

Select one air helper spring from your kit. Install the elbow fitting into the air spring. Tighten the air fitting securely to engage the orange thread sealant. Position the fitting to point to the anticipated location of the air inflation valves, *see Figure "A" & "D"*. Install the upper bracket by inserting the air helper spring studs into the slots *see Figure "A"*. To install this kit to 2WD vehicles insert the air helper spring studs in the upper bracket holes *see Figure "A"*. This is done to assure proper air helper spring alignment on 2WD vehicles. Fasten the lower bracket to the air helper spring using a 3/8"-16 hex bolt finger tight *see Figure "A"*. (*NOTE: this bolt will be tightened later in this step.*) Note the different lengths of the bracket legs. To determine the position of the lower bracket, pre-fit the kit to the vehicle. Place the kit in position on the driver's side *see Figure "A" & "B"*. Check the "X" dimension *see Figure "B"*. The distance between the upper and lower bracket ("X" dimension) should be between 5"-6 1/2". The lower bracket can be turned so that the long legs or short legs can be used. If the "X" dimension is less than 5" *see Figure "B"*, rotate the bracket so that the letter "A" stamped on the bracket is butted against the leaf stack. Once the lower bracket orientation has been set, tighten the 3/8"-16 x 3/4" hex bolt securely.

STEP 3 - INSTALLING THE ASSEMBLY TO THE VEHICLE

Place the assembly on the driver's side on top of the axle housing *see Figures "A" & "B"*. Visually align the air spring so that it is aligned over the axle. Slide the upper bracket onto the frame rail and use the holes in the bracket as a template to mark the holes to be drilled in the frame rail. *Before drilling the holes make sure all electrical, brake and fuel lines are cleared from the path of the drill.* In order to prevent any damage to these lines it is recommended to remove the supports holding these lines and place a thin piece of wood between the frame rail and the existing lines. After drilling the holes re-attach the line supports.

Insert the frame brace being careful not to pinch any of the existing lines inside the frame rail. Slide the upper bracket onto the frame rail and frame brace making sure that all the holes line up *see Figures "A" & "B"*. Attach the upper bracket with the 3/8"-16 x 4" hex bolts.

With the pre-assembly attached to the frame rail the next step is to attach the lower bracket to the axle housing using the 3/8"-16 x 7" carriage bolts and bracket clamp *see Figures "A" & "B"*.

STEP 4 - INSTALLATION OF THE PASSENGER'S SIDE ASSEMBLY

Follow steps 1-5 for assembly and installation of the passenger's side assembly. *Note: The use of a heat shield is required on the passenger's side of the vehicle see Figure "F"*. The heat shield will mount between the upper bracket and the air helper spring. Angle the heat shield so it will fall halfway between the air helper spring and the closest point on the exhaust. Be sure that the heat shield will not contact any other component as the suspension compresses. (*i.e. brake lines, shock absorbers, lower bracket assembly*)

**STILL HAVE QUESTIONS?
Tech line hours**

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