



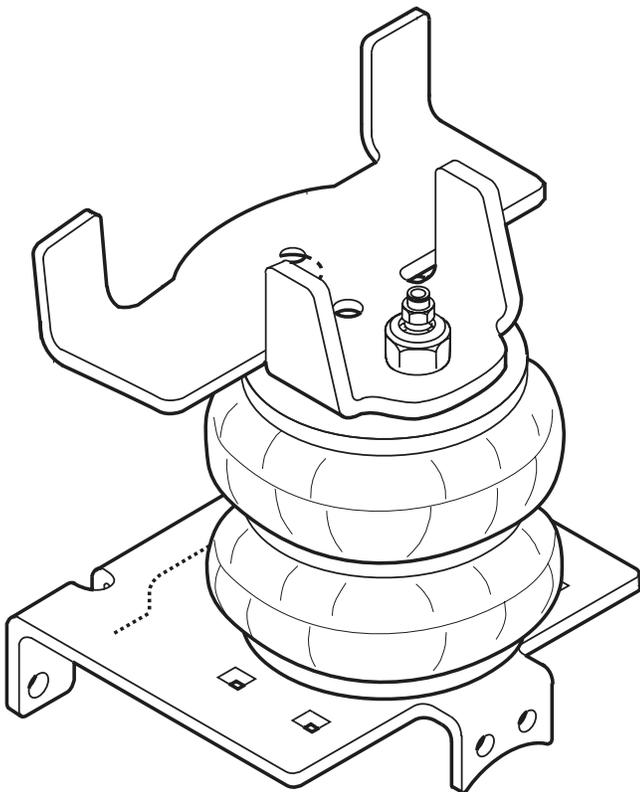
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2004-2008 F150 2WD

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	6397	2
RIGHT UPPER BRACKET	5409	1
LEFT UPPER BRACKET	5410	1
LOWER BRACKETS	5412	2
LOWER BRACE	5413	2
HEAT SHIELD	0025	1
AXLE STRAP	0530	2



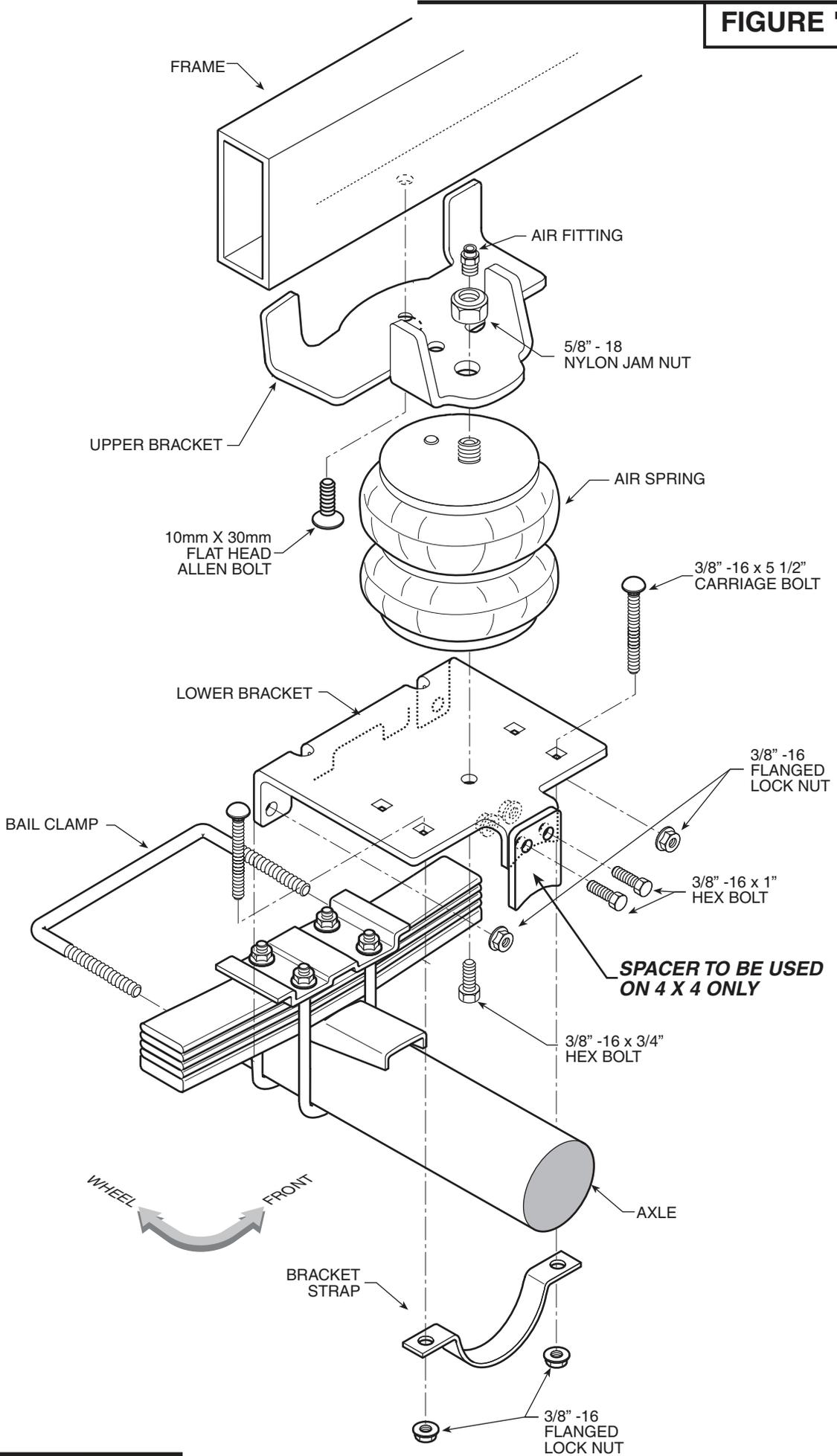
Hardware

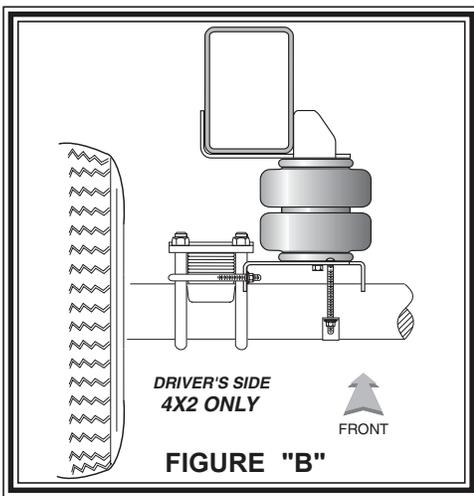
3/8"-16 FLANGE LOCK NUT	12
3/8"-16 X 1" HEX HEAD BOLT	4
3/8"-16 X 3/4" HEX HEAD BOLT	2
3/8"-16 x 5 1/2" CARRIAGE BOLTS	4
5/8"-18 NYLON JAM NUT	2
3/8"-16 BAIL CLAMP	2
10mm X 30mm FLAT HEAD ALLEN BOLT	2
5/16" FLAT WASHER	4
THERMAL SLEEVE	2
NYLON TIE	6

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"





STEP 1 - PREPARE THE VEHICLE

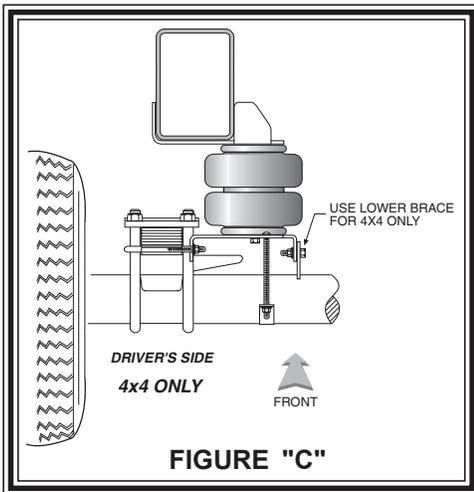
Remove the negative battery cable. With the vehicle on a solid, level surface chock the front wheels. Raise the vehicle by the rear axle and remove the rear wheels. After the removal of the wheels lower the vehicle so the axle rests on jack stands rated for your vehicles weight. Remove the jounce bumper located under the frame rail.

STEP 2 - PREASSEMBLE THE KIT

Select one air helper spring and an lower bracket from your kit. Next, place the 3/8"-16 x 5 1/2" carriage bolts into the square holes on the lower bracket. Fasten the lower bracket using a 3/8"-16 x 3/4" hex head bolt finger tight. *See Figure "A"*.

STEP 3 - UPPER BRACKET INSTALLATION

Install the upper bracket on the frame using the 10mm x 30mm flat head allen bolt, *see Figure "A"*. This will be located where the jounce bumper was removed. Attach the air spring to the upper bracket with the 5/8"-18 Nylon jam nut. The combination stud will use the inner most hole and the "button" on the air spring will be aligned with the outer most hole on the upper bracket (*see Figure "A"*). **Note: On the exhaust side of the truck, a heat shield will be required. Please see heat shield manual.** Install the air fitting into the air spring and tighten securely to engage the orange thread sealant, *see Figure "A"*.



STEP 4 - LOWER BRACKET INSTALLATION

The lower bracket will rest on the axle with the outer portion placed between the U-bolts that hold the leaf stack to the axle. Insert the bail clamp into the two holes on the lower bracket from outside the leaf stack and secure with the 3/8"-16 hex nuts (*Figures "A" & "B"*) Push the axle strap onto the carriage bolts from the underside of the axle and secure it using the 3/8"-16 hex nuts *see Figure "A"*.

On 4X4 modles, attach the lower brace to the lower bracket using the 3/8-16 x 1" hex head bolts and 3/8-16 hex nuts, *see Figures "A" & "C"*. The lower bracket will rest on the "tong" instead of the axle. The rest of the attachments are the same (*Figure "A"*).

After everything is aligned, tighten the 3/8"-16 hex bolt on the bottom of the air spring.

STEP 5 - INSTALLATION TO THE PASSENGER'S SIDE ASSEMBLY

Reverse any orientations when assembling and installing the right, or passenger, side of the vehicle.

PARTS LIST

DESCRIPTION	QTY.
HEAT SHIELD	1
CLAMPS	2

STEP 1

Bend the heat shield middle tab out at a 90 degree angle and bend the heat shield again half the distance up the tab at a 90 degree angle to form a "L" shape refer to *Figure "A"*.

STEP 2

Mount the heat shield between the air spring and the exhaust pipe. Mount the heat shield using the clamps provided see *Figure "B"*. **Maintain clearance between heat shield and moving axle, lines, etc...**

STEP 3

Bend the heat shield around the exhaust pipe, while allowing for open air space of 1/2" to 1" as shown in *Figure "C"*.

Important:

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

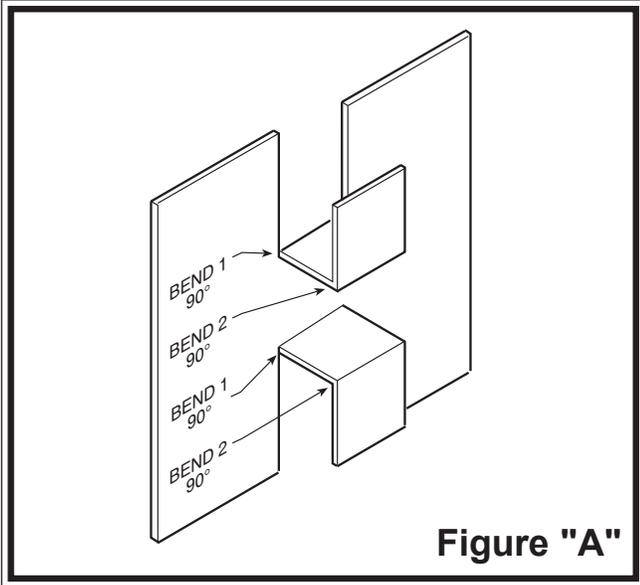


Figure "A"

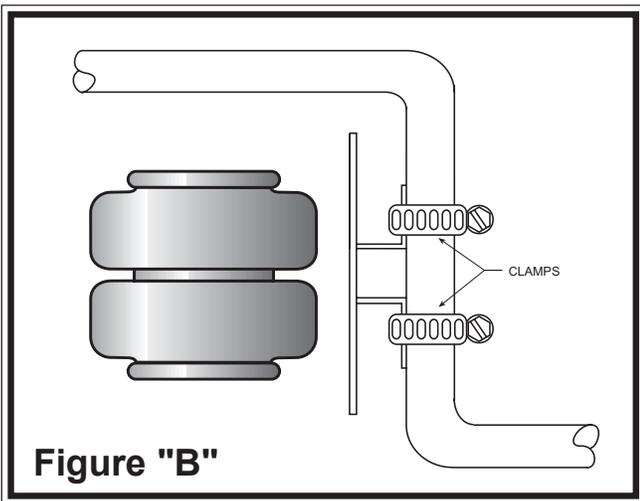


Figure "B"

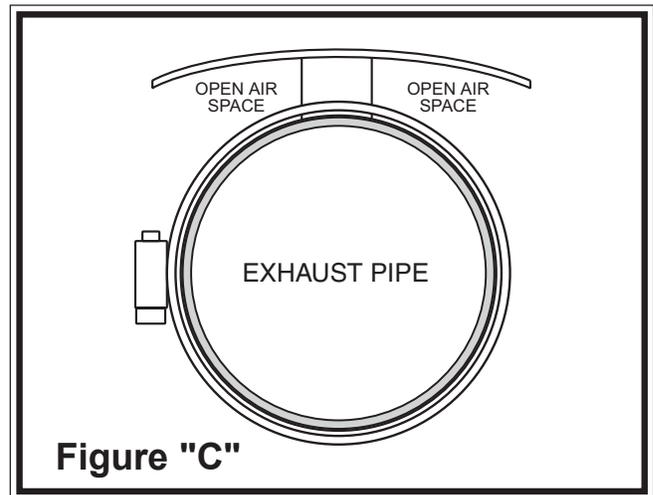


Figure "C"

STILL HAVE QUESTIONS?

Tech line hours

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

