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W21-760-2404

INSTALLATION INSTRUCTIONS

All work should be carried out in a properly equipped workshop with due regard to Health and Safety Regulations. No further reference to Health and Safety Regulations will be made, but they must be considered at all times.

The kit should be opened and the contents checked against the parts list provided.

Identify the various components and familiarise yourself with them using drawings and information provided.

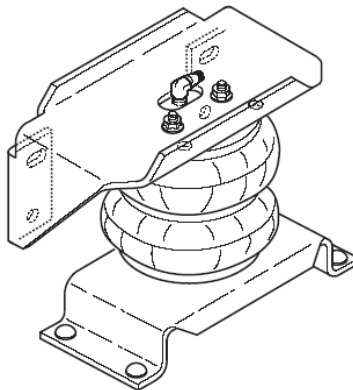
WARNING

Do not inflate this assembly when it is unrestricted. When installed, a minimum of 10 psi should be maintained in the air bellows at all times to avoid damage. Do not inflate beyond 100 psi.

IMPORTANT

This kit is not designed to increase the GVW of your vehicle. For your safety and to prevent possible damage to your vehicle, do not exceed the maximum load recommended by the vehicle manufacturer.

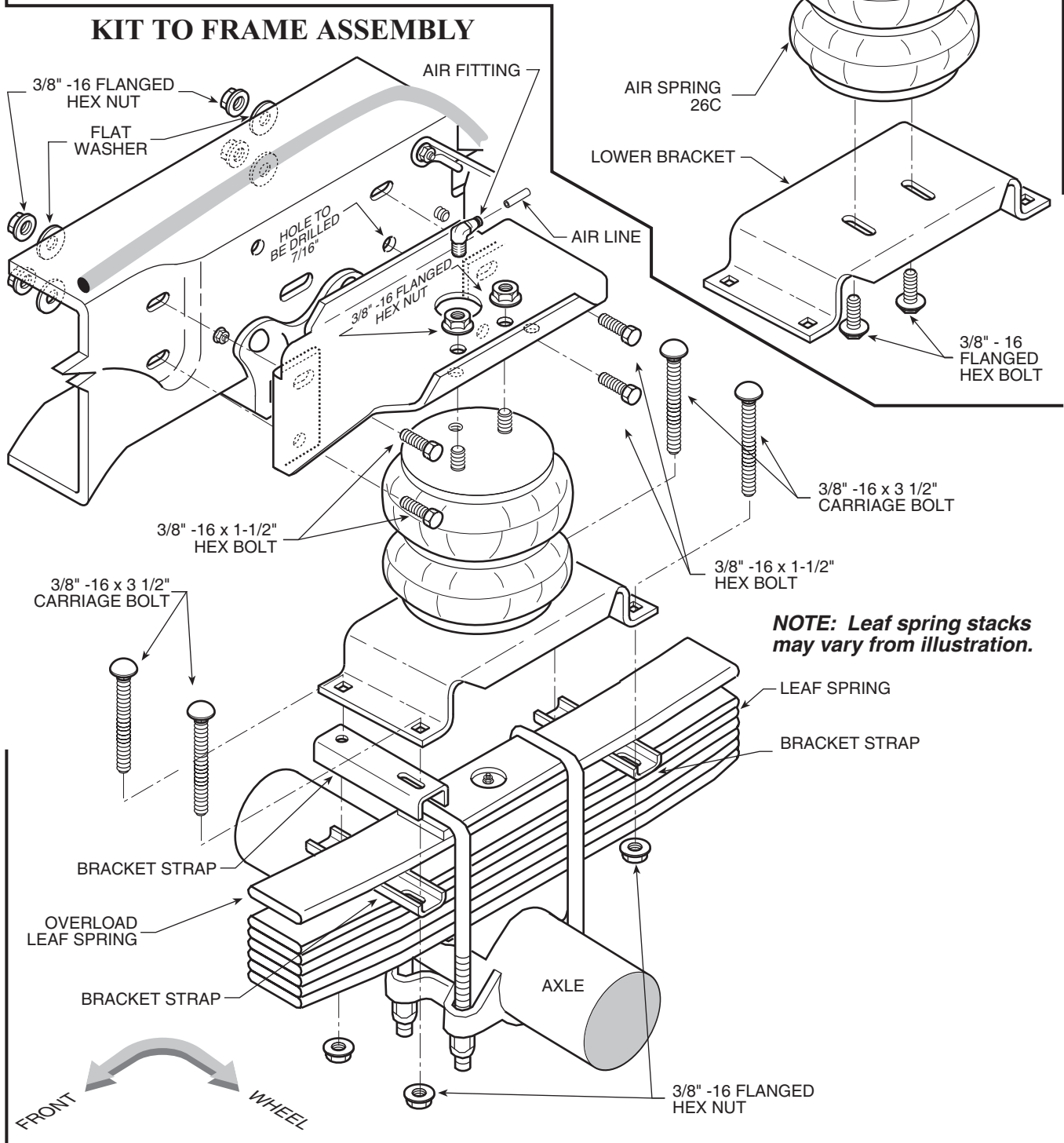
26C AIR SPRING	7325	2	3/8" -16 x 1-1/2" HEX BOLT	8
UPPER BRACKET	5495	2	3/8" LARGE FLAT WASHER	14
LOWER BRACKET	5496	2	5/16" FLAT WASHER	4
BRACKET STRAP/SHIM	5086	8	PUSH-TO-CONNECT	
BRACKET STRAP/SHIM	5093	2	INFLATION VALVE	3032
18FT. AIR LINE TUBING		1	PUSH-TO-CONNECT	
3/8" -16 FLANGED HEX NUT		20	ELBOW FITTING	3031
3/8" -16 x 3/4" FLANGED HEX BOLT		4	THERMAL SLEEVE	2
3/8" -16 x 3 1/2" CARRIAGE BOLT		8	NYLON TIE	6



KIT ASSEMBLY

FIGURE "A"

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



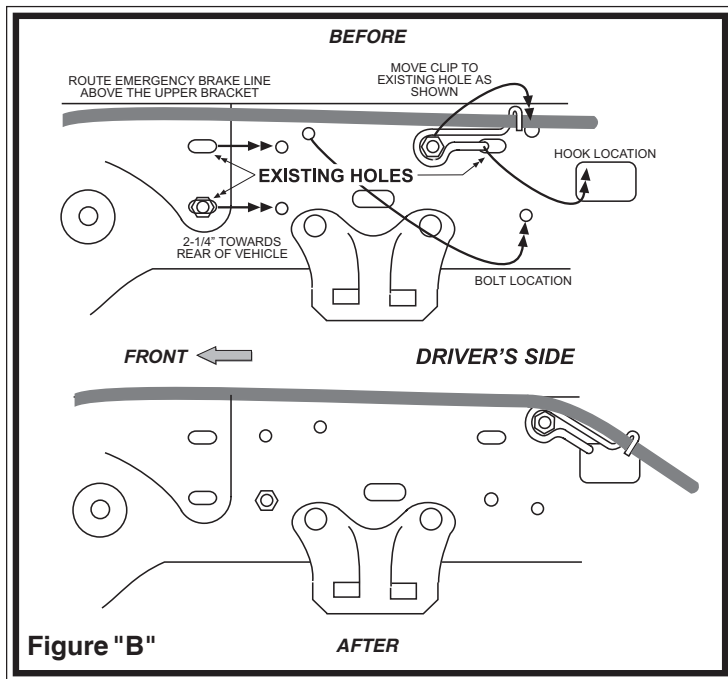


Figure "B"

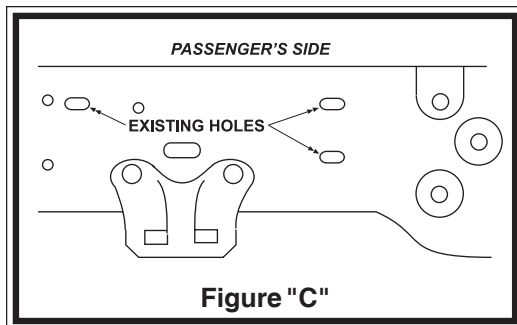


Figure "C"

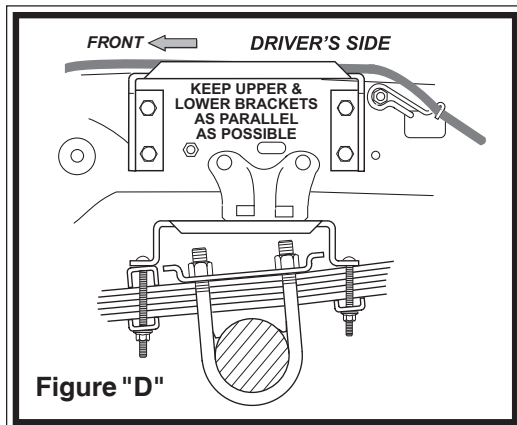


Figure "D"

STEP 1 - PREPARE THE VEHICLE

With the vehicle is on a solid level surface, chock the front wheels. This vehicle does not have to be raised up to install the kit. Remove the negative battery cable. *This installation assumes that there is no load on the vehicle.*

STEP 2 - PREASSEMBLE THE KIT

Select one air helper spring and a lower bracket from your kit. Fasten the lower bracket to the air helper spring using a 3/8" -16 x 3/4" flanged hex bolts through the slots in the lower bracket (*finger tight*) see **Figure "A"**.

STEP 3 - PREPARE THE FRAME

The frame rail on the driver's side of the vehicle will require the relocation of three items that will interfere with the upper bracket and air spring. This is accomplished by relocating the existing nuts, bolts, and clips on the frame rail that fall between the upper bracket flanges.

1.) The emergency brake line clip will be moved toward the rear of the vehicle see **Figure "B"**.

2.) The plastic line harness located on the inside of the frame rail will be moved 2-1/4" toward the rear of the vehicle. Two 3/8" holes will have to be drilled to relocate the line harness see **Figure "B"**.

3.) The ground strap bolt must be relocated to fall outside the upper bracket flanges see **Figure "B"**. Please note that the nuts, bolts and clips may be placed in various locations depending upon your specific model.

STEP 4 - ATTACH THE ASSEMBLY TO THE FRAME

The three existing slots in the frame rail will be used in addition to one hole drilled in the frame rail to attach the upper bracket to the frame rail. The slots will have to be enlarged to allow the bolts to pass through. Place the upper bracket on the outside of the frame rail, aligning the holes in the bracket with the slots in the frame see **Figure "A"**. Using the upper bracket as a template, mark the hole to be drilled in the frame rail with a center punch. Remove the upper bracket and drill a hole on the center mark using a 3/8" drill bit. **Before drilling, make sure that all electrical, brake, and fuel lines are cleared from the path of the drill bit.** Damaging the lines can be avoided by inserting a piece of wood between the frame rail and any lines in the path of the drill bit.

Attach the upper bracket to the frame rail using the drilled hole and a 3/8" -16 x 1-1/2" hex bolt, 3/8" -16 flanged hex nut, and large washer, making sure that the remaining holes in the bracket are aligned with the slots in the frame rail see **Figure "A"**. With the upper bracket secured in place, drill through the three holes in the upper bracket and through the slots in the frame rail with a 3/8" drill bit. Using the supplied 3/8" -16 x 3/4" hex bolts, 3/8" -16 flanged hex nuts, and large washers, attach the bracket to the frame rail. Note that three large washers will be placed between the forward bracket flange and

the frame rail on both flange attaching locations **on the left side of the vehicle only**. This allows the air spring assembly to mount flush with the frame rail see **Figure "A"**. Next, 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"** & **"F"**.

STEP 5 - ATTACH THE LOWER BRACKET TO THE VEHICLE

Place the lower bracket and air spring on the leaf stack. Insert the studs on the upper plate of the air spring through the holes in the upper bracket. Attach the air spring to the upper bracket using two 3/8" -16 flanged hex nuts. Install the 1" spacer between the lower bracket and the leaf stack on the forward end of the assembly to align the upper and lower brackets as close to parallel as possible see **Figures "A"** & **"D"**. Insert the carriage bolts through the square holes in the lower bracket. Slide the bracket straps onto the carriage bolts as to clamp the lower bracket to the leaf stack see **Figures "A"** & **"D"**. Fasten the bracket strap to the carriage bolts using two 3/8" -16 flanged hex nuts. *Note:* F-450's & F-550's will clamp around the overload springs only, see **Figures "D"** & **"E"**. Slide the lower bracket forward or backward to align the air spring as close to vertical as possible. Tighten the 3/8" -16 flanged hex bolt that holds the air spring to the lower bracket.

