RIDE-RITE
SPORT-RITE COIL-RITE
AIR HELPER SPRINGS

www.riderite.com

OPERATING PRESSURES:	
MINIMUM (UNLOADED)	5 PSI
MAX (LOADED)	35 PSI

READ INSTALLATION INSTRUCTIONS COMPLETELY BEFORE INSTALLING YOUR KIT

INSTALLATION INSTRUCTIONS

Congratulations—your new suspension helpers are quality products capable of improving the handling and comfort of your vehicle while under load. 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.

NOTE: IF ANY PARTS ARE MISSING FROM THE KIT, PLEASE CALL 1-800-888-0650.

PLEASE DO NOT CALL OR RETURN THE KIT TO THE DEALER.

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 simple follow the same procedures.

VEHICLE PREPARATION

With the vehicle on a solid level surface chock the front wheels and raise the vehicle using a jack rated for your vehicles weight, lift the wheels off the ground. Lower the vehicle frame onto jack stands rated for your vehicles weight making sure the suspension is fully extended. (Do NOT use wood or concrete blocks to support the weight of the vehicle.) Remove the jounce bumpers located under the frame rail, by prying them out of the jounce bumper cup. The jounce bumpers will not be re-used with this kit but the bolts will be reused.

WARNING

Do not inflate this assembly when it is unrestricted. The assembly must be restricted by a coil spring. Do not ever inflate beyond recommended operating pressures for your specific vehicle. Improper use or over inflation may cause property damage or severe personal injury.

SHOCK ABSORBERS

If necessary, additional clearance between the coil turns may be obtained by removing the shock absorbers from the lower shock mounts and lowering the suspension an additional one to two inches. (CAUTION: Do not put strain or tension on the flexible brake line.)

PARTS LIST

COIL-RITE AIR SPRING	6030	2
WORK-RITE BUMPER	1259	2
COIL-RITE SUPPORT	0045	2
FACE PLATE	5641	2
SPACER RING	5642	2
CLAMP RING	5643	4
1/2" SPACER	0013	2
1/4" SPACER	5229	2
AIR LINE	0007	1

BOLT PACK

3/8"-16 X 1" HEX BOLT		2
3/8"-16 X 2" HEX BOLT		2
3/8"-16 X 1-1/2" FLAT HEAD BOLT		12
3/8"-16 FLANGE LOCK NUT		14
3/8" WASHERS		2
5/16" WASHERS		4
INFLATION VALVE	3098	2
VALVE CAP	3099	2
NYLON TIES	9168	6
THERMAL SLEEVE	0899	2
PLUG		2

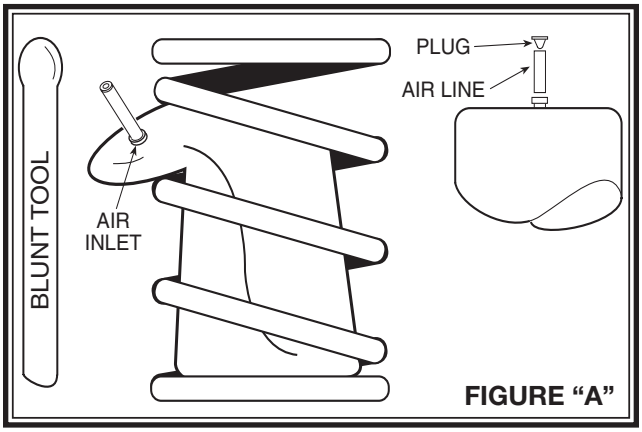


FIGURE "A"

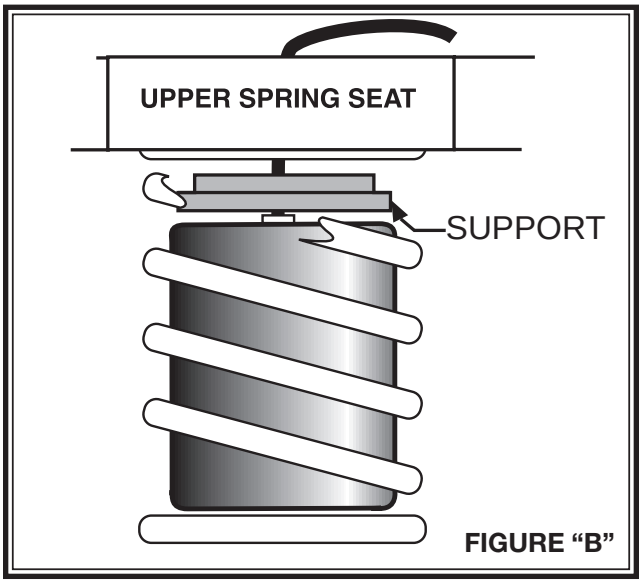


FIGURE "B"

STEP 1—AIR SPRING PREPARATION

Cut a section of air line tubing approximately three inches in length. (Cut the tubing as squarely as possible.) Install the tubing into the push-to-connect air inlet on the air spring. Exhaust the air from the air spring by rolling it up toward the air inlet. After all the air is removed from the air spring install the hose plug into the end of the hose as shown in ***Figure "A"***.

STEP 2—INSTALLING THE AIR SPRING

Insert the top of the flattened air spring into the coil spring through the lowest opening with the push-to-connect air inlet at the top as shown in ***Figure "A"***.

STEP 3—ADJUSTING THE AIR SPRING

Push the air spring up into the coil spring by hand or with a blunt tool, such as a spoon shaped tire iron. DO NOT use anything with sharp edges or corners as this may damage the air spring. ***See Figure "A".***

When the air spring is completely within the coil spring, remove the plug and three inch tubing section by pushing the collar on the fitting towards the air spring and pulling on the tubing to remove. Allow the air spring to return to its normal shape.

Install the spacer on the top of the air spring. ***See Figure "B".*** Once the weight of the vehicle is applied to the suspension and the air springs are pressurized, the spacer will stay in place.

STEP 4—PREASSEMBLY OF THE WORK-RITE BUMPERS

Select one Work-Rite load assist and one face plate for the kit. Attach the Work-Rite to the face plate using the 3/8"-16 x 1" hex bolt, flat washer, and lock nut. ***See Figure "C".***

NOTE: **An optional spacer may be installed to engage the Work-Rite sooner when a load is applied. To install, place between the Work-Rite and the face plate. If the spacers are installed, use the 3/8"-16 x 2" bolts instead of the 3/8"-16 x 1" bolts. There should be 1/4" to 3/8" between the Work-Rite and the jounce stop.** ***See Figure "D".***

STEP 5—INSTALLING THE ASSEMBLY ONTO THE VEHICLE

Select one spacer ring from your kit and place it around the jounce bumper cup. Place the assembly against the bottom of the jounce bumper cup and align the holes in the face plate with the holes in the spacer ring. Place the clamp rings on top of the space ring, aligning the holes. Insert the 3/8"-16 x 1-1/2" flat head bolts into the tapered holes on the face plate and secure to the clamp ring with the flange lock nuts. ***See Figures "C" & "D".***

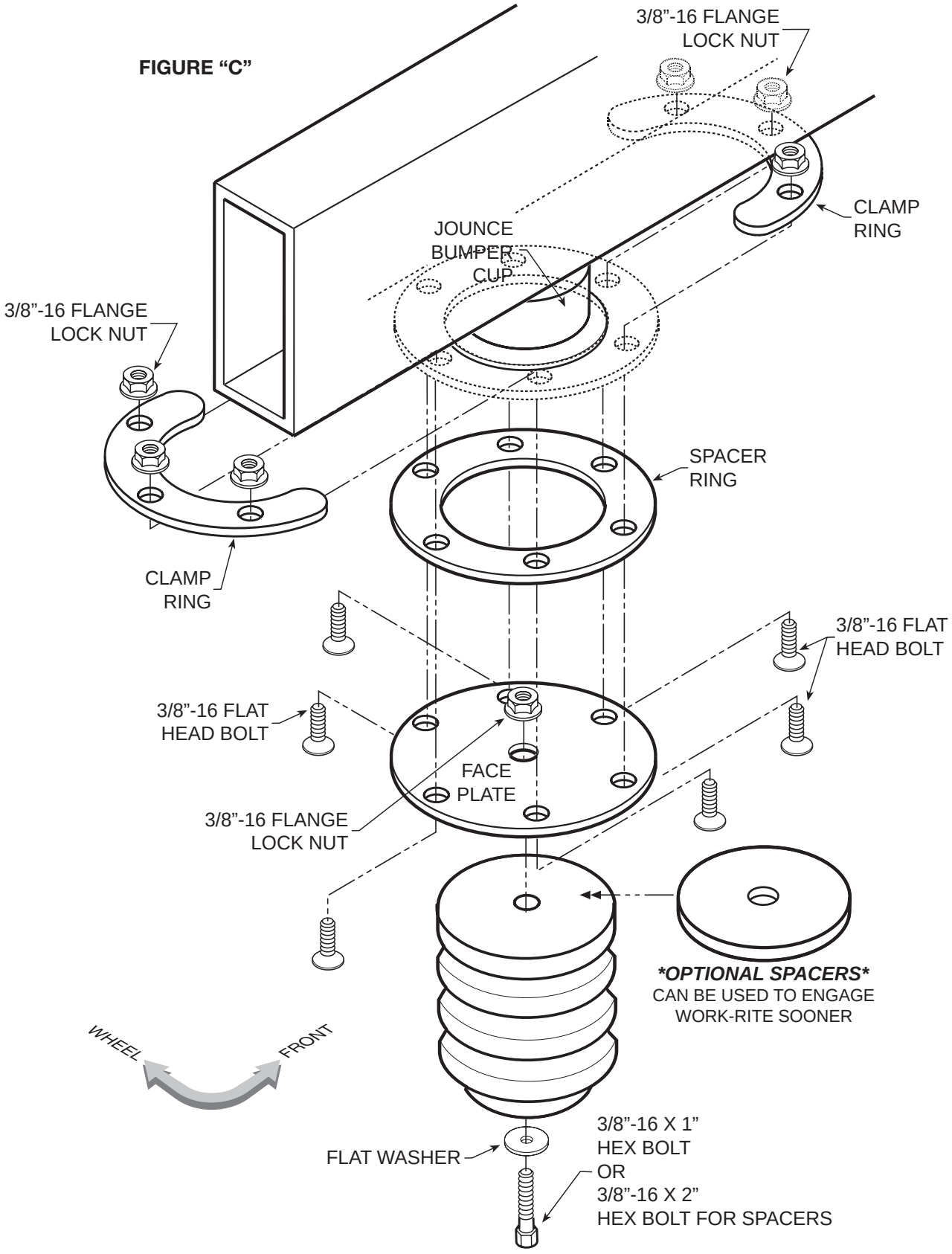
STEP 6—REATTACH THE SHOCK ABSORBER

Attach shock absorbers if removed earlier in the installation. Torque to manufactures specifications.

STEP 7—ROUTE THE AIR LINE

Cut the remaining air line tubing into two equal lengths (cut the tubing as squarely as possible). Select a location for the inflation valves in a protected area, such as the bumper or fuel fill floor (**Note:** The inflation valve will be installed in Step 8).

FIGURE "C"


3/8"-16 FLANGE
LOCK NUT
CLAMP
RING
JOUNCE
BUMPER
CUP
3/8"-16 FLANGE
LOCK NUT
SPACER
RING
CLAMP
RING
3/8"-16 FLAT
HEAD BOLT
3/8"-16 FLAT
HEAD BOLT
FACE
PLATE
3/8"-16 FLANGE
LOCK NUT
OPTIONAL SPACERS
CAN BE USED TO ENGAGE
WORK-RITE SOONER
WHEEL
FRONT
FLAT WASHER
3/8"-16 X 1"
HEX BOLT
OR
3/8"-16 X 2"
HEX BOLT FOR SPACERS

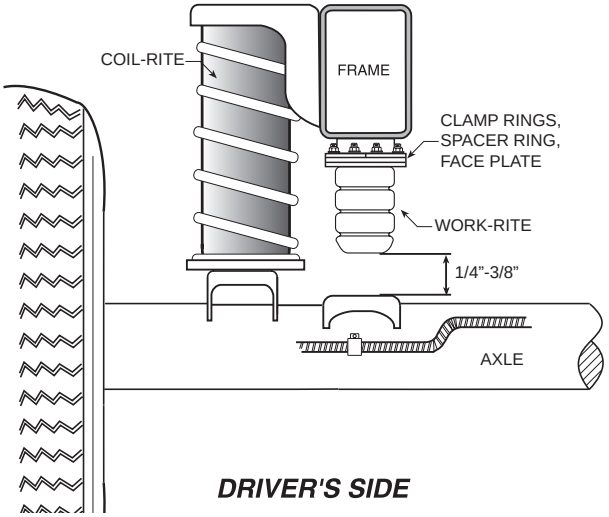


FIGURE "D"

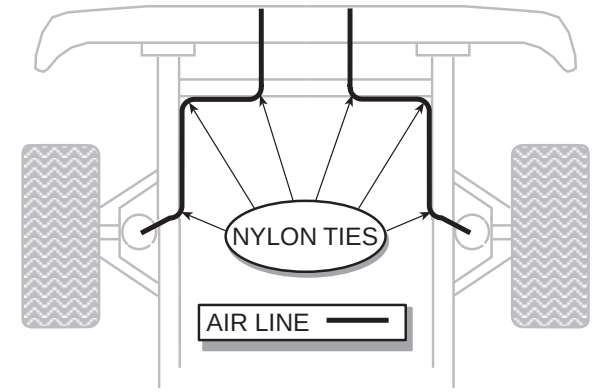


FIGURE "E"

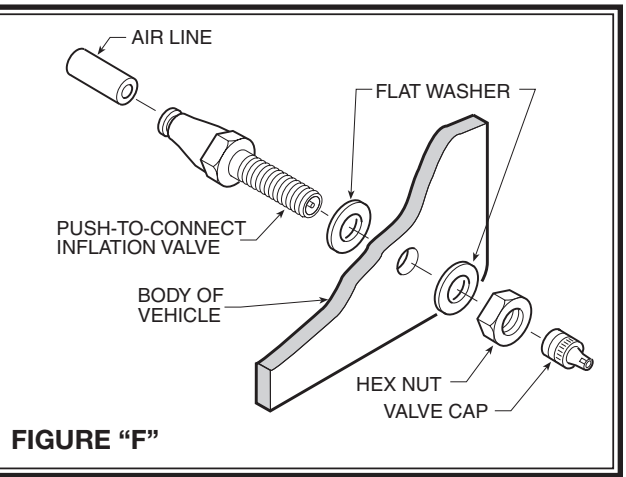


FIGURE "F"

Insert the air line tubing into the push-to-connect fitting on the air spring as far as possible. Route the tubing from the air spring to the inflation valve, making sure to avoid direct heat from the engine, exhaust pipe and away from sharp edges. Secure with Nylon ties provided in your kit.

STEP 8—INSTALL THE AIR LINE AND INFLATION VALVE

Select a location on the vehicle for the air inflation valves. The location can be located 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 "E"***. Drill a 5/16" hole and install the air inflation valve using two 5/16" flat washers per valve as supports ***see Figure "F".***

FOLLOW STEPS 1-8 FOR THE OTHER SIDE OF THE VEHICLE.

STEP 9—INFLATE AND TEST

Inflate the air springs to recommended operating pressure (see page 1 for operating pressures). With a soap and water solution, check for air leaks around the fittings and valve core. We recommend inflating and deflating in 5 psi increments to find the ideal riding condition for your vehicle.

STEP 10—COMPLETION

This now completes the installation. Install. Raise the vehicle and remove the jack stands and lower the vehicle back onto the ground. Inflate the Coil-Rite air helper springs to 5 psi.

NOTE: **Check air pressure on a monthly basis.**