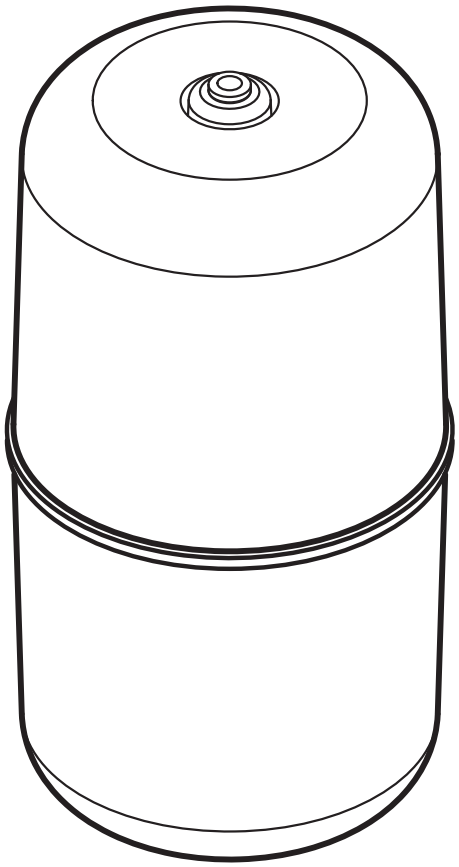
4107

AIRIDE

firestoneairide.com

INSTALLATION INSTRUCTIONS



01-23

! IMPORTANT

PLEASE DON'T HURT YOURSELF, YOUR KIT OR YOUR VEHICLE. TAKE A MINUTE TO READ THIS IMPORTANT INFORMATION.

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.

SAFE INSTALLATION
Please take all safety precautions during installation. A hydraulic jack can fail, and if that happens, you can be seriously hurt, or worse, if you are relying on it to hold up the vehicle. If you use a hydraulic jack, secure jack stands in the appropriate locations and chock any tires still touching the ground.

Wear safety glasses or goggles. Your eyes may be lower than some parts and pieces, and you don't want to lose an eye.

Remove the possibility of any electrical issues by disconnecting the negative battery cable.

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.)

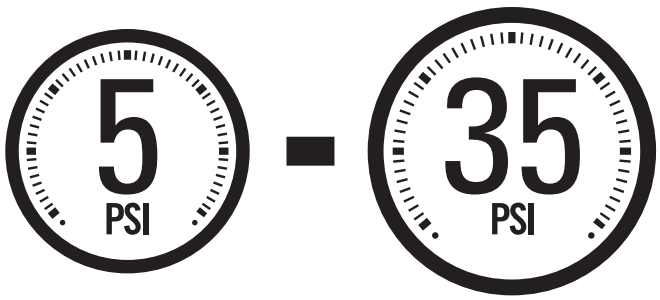
VEHICLE GVWR
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

INFLATING THE AIR SPRINGS
When inflating air springs, add air pressure in small quantities, checking air pressure frequently. The air springs have much less air volume than a tire, so they inflate much more quickly.

APPROPRIATE AIR PRESSURE
For best ride, use only enough air pressure in the air springs to level the vehicle when viewed from the side (front to rear). This will vary, depending on the load, location of the load, condition of the existing suspension, and personal preference.

OPTIONAL T-FITTING
This kit includes inflation valves and air line tube for each air spring, allowing you to compensate for unbalanced loads. If you prefer a single inflation valve system to provide equal pressure to both air springs, your dealer can supply the optional "T" fitting (Part # 3025 or WRI-760-3461 retail pack).

ONCE INSTALLED SUCCESSFULLY, FOLLOW THESE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS:

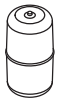


MINIMUM PRESSURE *MAXIMUM PRESSURE (LOADED)*

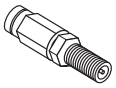
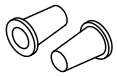
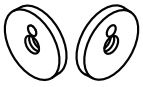
PARTS

Compare the parts below to your kit. Assure you have all pieces and organize them for an easier installation.

MAIN KIT CONTENTS

PT # 6021		x 2 COIL-RITE AIR SPRING	PT # 9417		x 1 BLUE AIR LINE TUBE (18 FEET)

4107 HARDWARE PACK

PT # 3033		x 4 5/16" FLAT WASHERS	PT # 3098		x 2 INFLATION VALVE	PT # 9168		x 6 BLACK NYLON TIE
PT # 3099		x 2 VALVE CAP	PT # 0019		x 2 COIL-RITE PTC PLUG	PT # 0899		x 2 THERMAL SLEEVE
PT # 0027		x 2 COIL-RITE BLUE PROTECTOR						

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

NOTE 1: Some Ford, Lincoln, and Mercury vehicles have a rubber sleeve inside the rear coil spring. This sleeve needs to be removed to allow installation of the air spring. It can be either cut out or pulled out with vise grips.

NOTE 2: On Volvo vehicles a 3/8" hole will have to be drilled in the upper spring seat to allow the air line to pass through. See Figure "A."

VEHICLE PREPARATION 1

1. Remove the positive battery cable. With the vehicle on a solid level surface, chock the rear wheels.
2. Raise the rear wheels of the vehicle using a lift or platform jack rated for your vehicle's weight at the center of the rear axle. Continue to raise the vehicle until the rear wheels are 8" off the ground.
3. Lower the vehicle frame forward of the suspension onto jack stands rated for your vehicle's weight allowing the suspension to hang freely. (DO NOT use wood or concrete blocks to support the weight of the vehicle.)

2 COIL SPRING PREPARATION

1. Remove the lower shock absorber bolt to allow the suspension to hang freely as shown in **Figure "B"**. The use of a hydraulic jack placed under the axle below the coil spring may be needed to relieve the tension on the shock.

2. Remove the clip holding the coil spring in the spring seat as shown in **Figure "C"**. This clip is located on the top of the coil spring and is attached to the upper coil spring seat. Tilt the coil spring so the top of the coil spring is exposed, **see Figure "A"**.

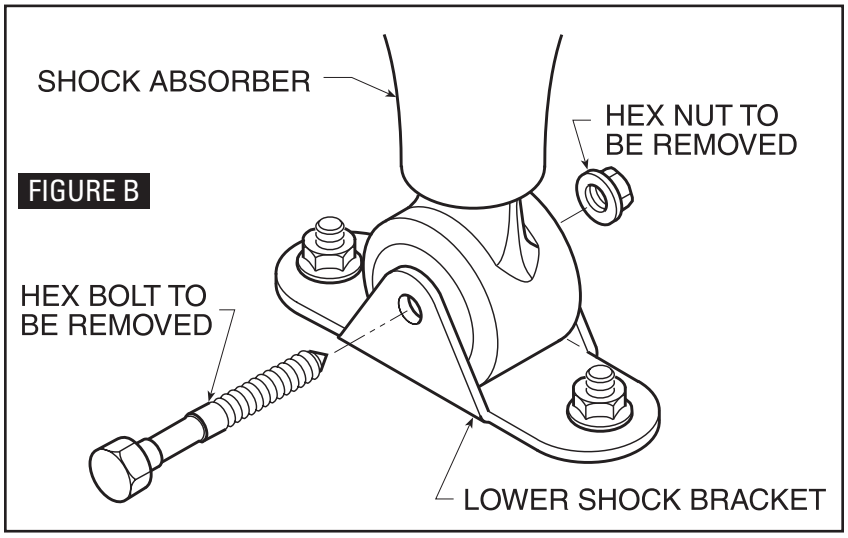


FIGURE B

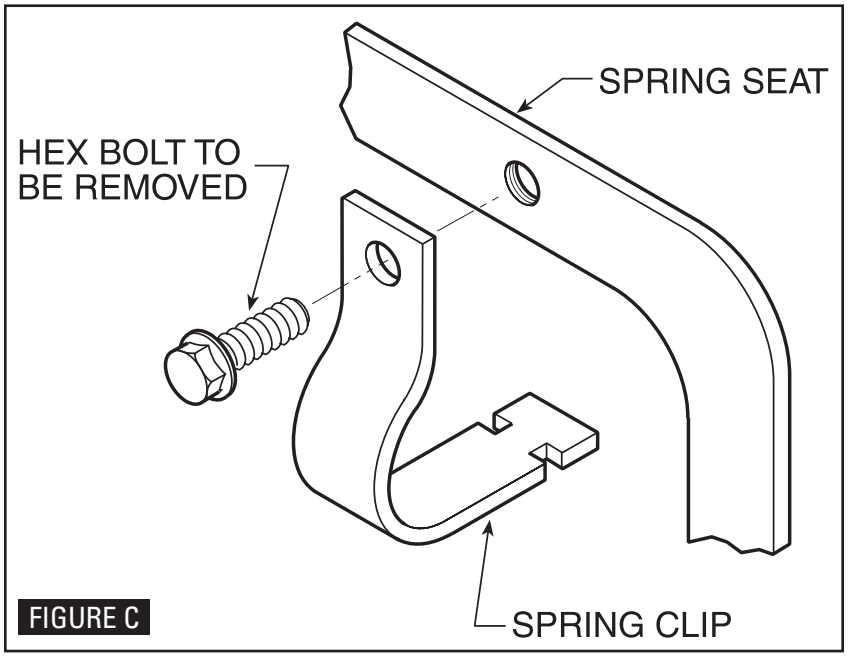


FIGURE C

3 AIR SPRING PREPARATION

1 Cut a section of air line tubing 3 inches in length and install into the push-to-connect fitting on the air spring (a "saw" cut with a sharp knife is preferred).

2 Exhaust the air from the air spring by rolling it up toward the air inlet.

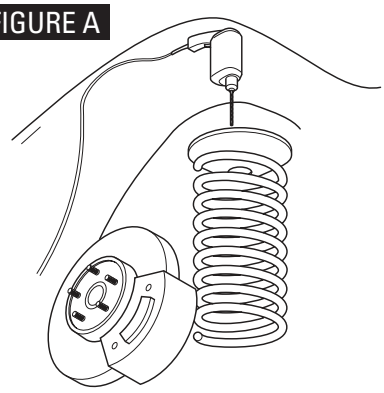
3 After the air is exhausted, install the plug into the 3" tubing coming out of the air spring **see Figure "B".**

PROCEED WITH STEP 3 FOR THE FOLLOWING VEHICLES;

Century, Celebrity, Cutlass Ciera 6000 and X, Skylark, Citation, Omega, Phoenix, Pathfinder, Trooper, Toronado, Riviera, El Dorado, SeVille, LeSabre, Electra, Park Avenue, DeVille, Olds 88, Olds 98, Bonneville, Volvo, and Ford, Lincoln, and Mercury vehicles.

REFER TO STEP 4 FOR VEHICLES NOT MENTIONED ABOVE.

FIGURE A



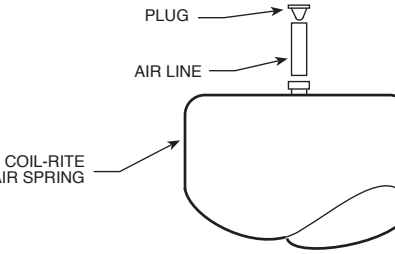
A Century, Celebrity, Cutlass Ciera 6000 and X, Skylark, Citation, Omega, Phoenix, Pathfinder, Trooper, Volvo and Ford, Lincoln and Mercury vehicles

Insert the top of the flattened air spring into the coil spring through the lowest opening in the coil spring with the push-to-connect air inlet at the bottom of the coil spring see **Figures "E" & "F".** The air spring supports will be installed in Step 3D.

B Toronado, Riviera, El Dorado, SeVille, LeSabre, Electra, Park Avenue, DeVille, Olds 88, Olds 98 and Bonneville

Insert the top of the flattened air spring into the coil spring through the lowest opening in the coil spring with the push-to-connect air inlet at the bottom of the coil spring see **Figures "E" & "F".** The air spring supports will be installed in Step 3D.

FIGURE B



C 1 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 any thing with sharp edges or corners, as this may damage the air spring.

2 When the air spring is completely within the coil spring, remove the plug and 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.

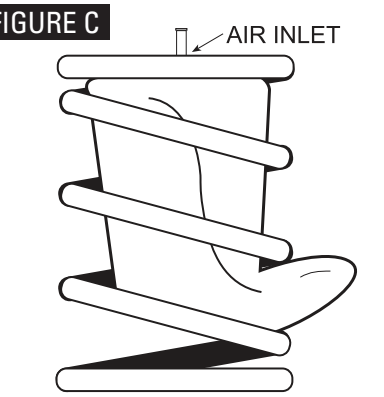
D INSTALL THE SUPPORTS - Century, Celebrity, Cutlass Ciera 6000 and X, Skylark, Citation, Omega, Phoenix, Pathfinder, Trooper, Volvo, and Ford, Lincoln, and Mercury vehicles

Push the air spring to the bottom of the coil spring and insert the protector between the air spring and the top spring seat **see Figure "D".**

Toronado, Riviera, El Dorado, SeVille, LeSabre, Electra, Park Avenue, DeVille, Olds 88, Olds 98 and Bonneville

Push the air spring to the top of the coil spring and insert the protector between the air spring and the bottom spring seat **see Figure "F".**

FIGURE C



REPEAT STEP 3 FOR THE OPPOSITE SIDE OF THE VEHICLE

PROCEED TO STEP 4 TO COMPLETE INSTALLATION

FIGURE D

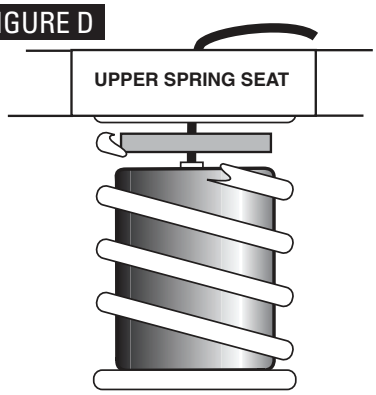


FIGURE E

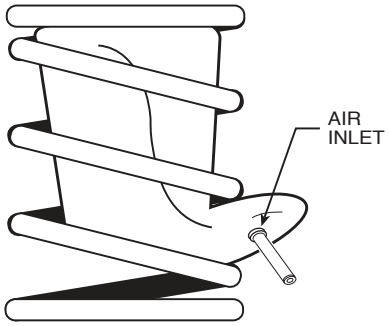
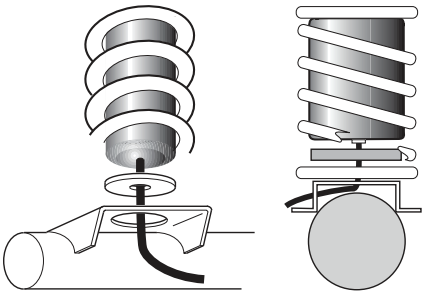


FIGURE F



4 PREPARE THE VEHICLE FOR INSTALLATION

Camaro, Firebird, Monza, Skyhawk, Starfire, Astre, Sunbird and Vega.

1. Remove the coil spring and spring insulator from the vehicle. Insert the air spring into the coil spring with the push-to-connect air fitting at the bottom of the coil spring **see Figure "E" & "F".**
2. The vehicles in this section do not have a hole in the lower spring seat. Locate the center of the lower spring seat and mark with a center punch. Drill a 3/8" hole through the center of the lower spring seat.
3. On the 1975 and newer Vega, Monza, Starfire, Skyhawk, and Sunbird the upper jounce bumper cone will need to be removed. The air spring will take the place of the jounce bumper cone.

5 RE-INSTALL THE ASSEMBLY

1. Re-install the upper spring insulator on the top of the coil spring. Index it so that the notch fits on the end of the coil spring.
2. Re-install the coil spring and the air spring assembly into the vehicle's spring seats, ensuring that the end of the coil spring is indexed properly into the notch in the spring seat.

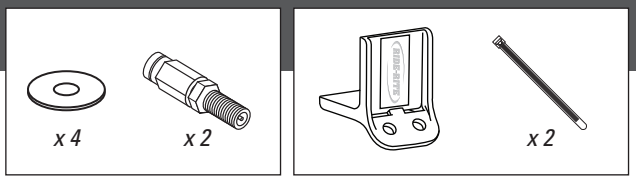
INSTALL THE SUPPORTS 6

Push the air spring to the top of the coil spring and insert the protector on the bottom of the air spring (air fitting end) **see Figure "F". REPEAT STEP 4 FOR THE OPPOSITE SIDE OF THE VEHICLE**

RE-ATTACH THE SHOCK ABSORBERS 7

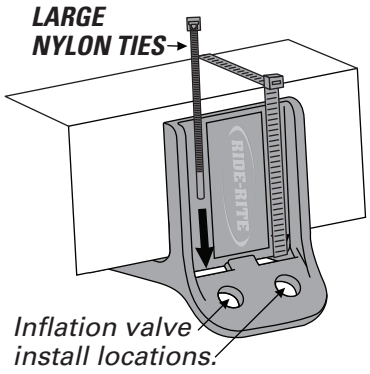
Attach the shock absorbers if removed earlier in the installation.

8 INSTALL INFLATION VALVES



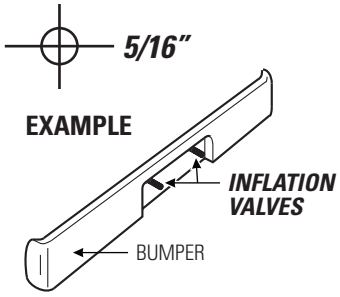
IF USING THE OPTIONAL NO-DRILL INFLATION VALVE BRACKET, CHOOSE OPTION 1. IF DRILLING, CHOOSE OPTION 2. **INFLATION VALVES MUST BE ACCESSIBLE BY AN AIR CHUCK.**

1 Secure the air inflation valve bracket to a protected, secure location. PROCEED TO STEP 3.

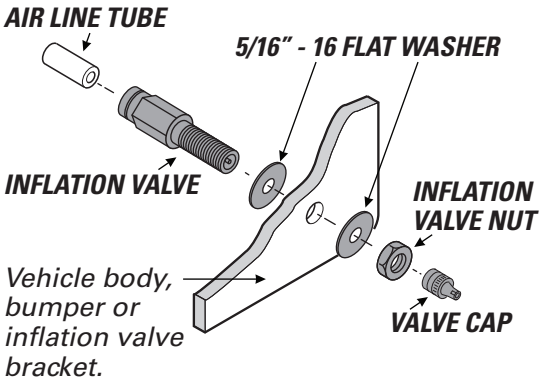


2 Select a protected location to install the inflation valves, such as the bumper or the body of the vehicle.

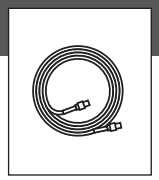
Drill two 5/16" holes for inflation valve install locations.



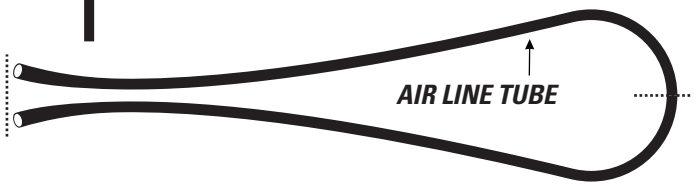
3 Install inflation valve assembly as shown.



CUT THE AIR LINE TUBE INTO TWO EQUAL LENGTHS 9



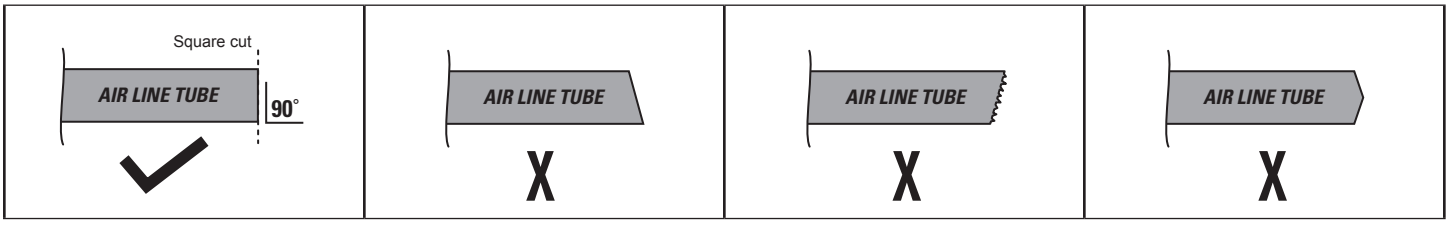
1 Match air line tube ends.



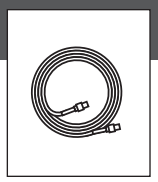
2 Find center of air line tube, make a square cut with tube cutter or sharp utility knife.

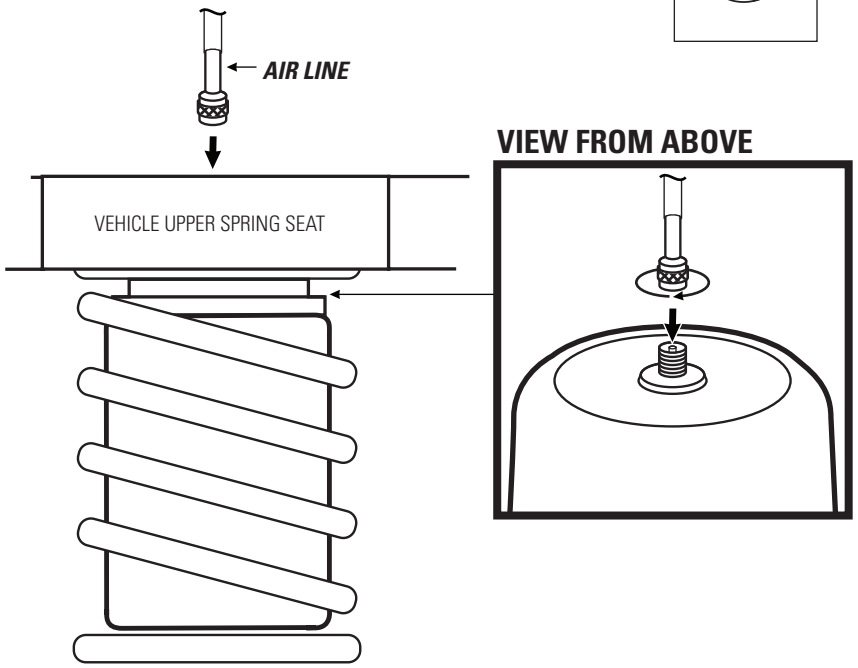
DO	DON'T
Make sure the cut is as square as possible. Use a tube cutter or sharp utility knife.	Fold or kink the air line tube. Cut the air line tube at an angle. Use pliers, scissors, snips, saws, or side cutters.

PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE



10 INSTALL AIR LINE TO AIR SPRINGS



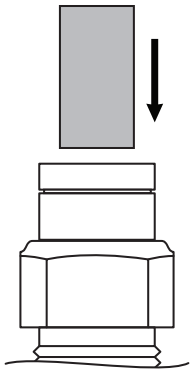


1. Screw the fitting that is on the air line tubing onto the air spring inflation valve stem coming out of the air spring.

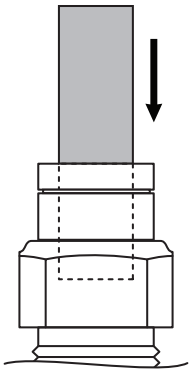
2. Route the tubing from the air spring to the inflation valve install location, making sure to avoid direct heat from the engine or exhaust pipe, and away from sharp edges.

AWESOME! You're done with the left side. Follow the same steps for the right side, then proceed to step 11 to finish installation.

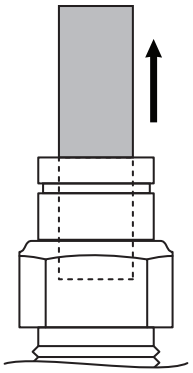
1 Insert end of air line tube into air fitting.



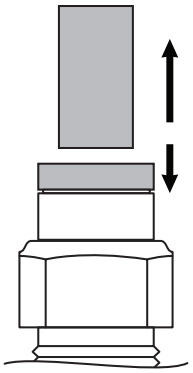
2 Push air line tube into air fitting as far as possible.



3 Gently pull on the air line tube to check for a secure fit.

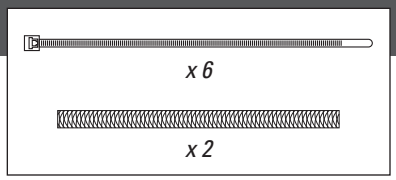


4 To remove, push down collar and gently pull air line tube away.



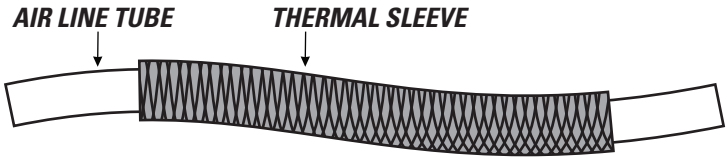
Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

12 ROUTE AND SECURE AIR LINE TUBES

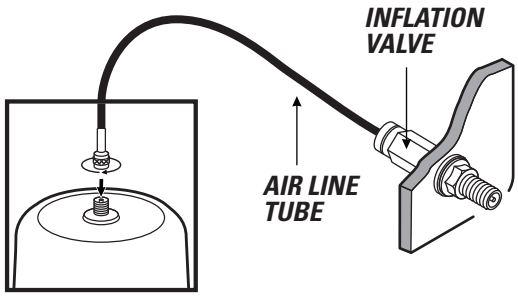


Air line tube routes will vary, depending on your truck, and requires you to choose the best path from the air springs to the inflation valves. Use the instructions below to help you choose.

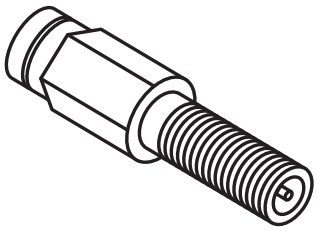
DO	DON'T
Select routes protected from heat, debris, and sharp edges. Use thermal sleeves near heat sources. Use Nylon ties to secure the air line tube.	Bend or sharply curve air line tubes. Leave air line tube exposed to sharp edges. Use unnecessary lengths of air line tube. Route air line tube near moving parts. Let air line tube hang unsecured from vehicle. Scar air line tube while routing.







1 Place an air chuck onto the inflation valve and fill the system to **35 PSI**.



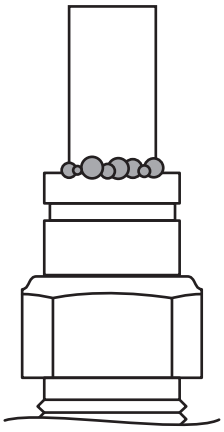


AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING.

2 Spray fittings with soap and water mixture or glass cleaner.

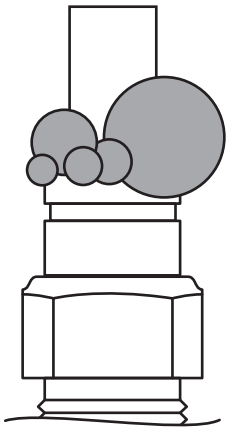


3 Observe bubbles.



SMALL SOAP BUBBLES THAT DO NOT EXPAND

✓



SOAP BUBBLES THAT EXPAND

X

NO LEAKS?

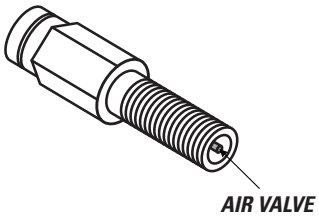
Congratulations! Continue to step 15 to finish installation. Review the Operating Instructions.

LEAK?

Bummer. Continue to step 14 to fix the leak.

14 FIXING AN AIR LEAK

1 Press the air valve on end of inflation valve to release all air pressure.



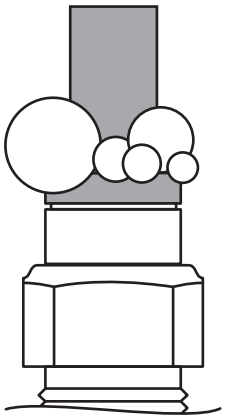
AIR VALVE





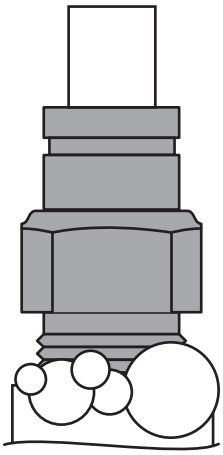
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR LINE TUBES FROM AIR FITTINGS.

LEAK AT AIR LINE TUBE AND AIR FITTING



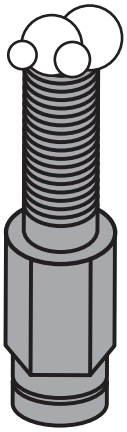
Release air line tube (see page 10). Review proper cuts and procedures in step 9. Repeat steps 11 and 13.

LEAK AT BASE OF AIR FITTING ON AIR SPRING



Tighten air fitting one turn or until leak stops.

LEAK OUT OF THE VALVE CORE ON INFLATION VALVE



Tighten valve core with valve core wrench on inflation valve cap.

STILL HAVE A LEAK?

Refer to the Troubleshooting section of the Instruction Manual.

SAFELY RETURN VEHICLE TO OPERATIVE STATE

If you removed any wheels during installation, install the wheels and torque the lug nuts to the manufacturer's specifications.

Safely remove any jack stands and wheel chocks used during installation.

Re-attach the negative battery cable.

VEHICLE GVWR

NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

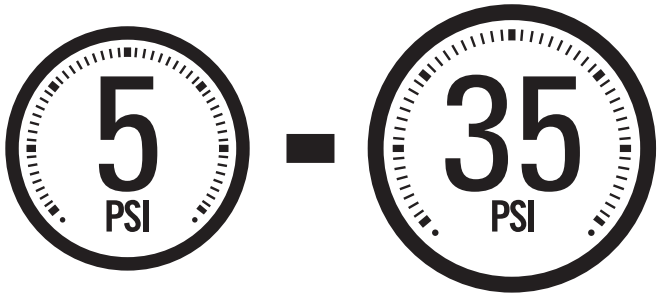
READ AND UNDERSTAND THE OPERATING INSTRUCTIONS

The Coil-Rite system can improve handling and comfort. Take a moment to review the operating instructions before hitting the road.

! IMPORTANT

A MINIMUM OF 5 PSI MUST BE MAINTAINED IN THE AIR SPRINGS AT ALL TIMES

Too much air pressure in the air springs will result in a firmer ride, while too little air pressure will allow the air springs to bottom out over rough conditions, and will not provide the improvement in handling that is possible.



MINIMUM PRESSURE *MAXIMUM PRESSURE (LOADED)*

AIRIDE

firestoneairide.com

BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

☐ Do you have a minimum of 5 PSI in your air springs?

☐ Put your paperwork in your glove compartment for future reference.

NEED INSTALLATION HELP?

Email us at **rrtech@fsip.com**. Please include photos to help us better diagnose and understand any problems you may be experiencing.