



4104  
4105  
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# Installation Instructions

READ INSTALLATION INSTRUCTIONS IN ITS ENTIRETY BEFORE INSTALLING YOUR COIL-RITE KIT

## NOTE:

If your vehicle is equipped with vibration dampers between the turns of the coil, it is necessary that these be removed before installing the air springs.

## STEP 1 – VEHICLE PREPARATION

Remove the positive battery cable. With the vehicle on a solid level surface chock the front wheels. Raise the rear wheels of the vehicle using a lift or platform jack rated for your vehicle weight. Remove the rear wheels. Lower the vehicle 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.)

## STEP 2 – SHOCK ABSORBERS

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

## STEP 3 – AIR SPRING PREPARATION

Cut a section of air line tubing 3 inches in length and install into the push-to-connect fitting on the air spring. Exhaust the air from the air spring by rolling it up toward the air inlet. After the air has been exhausted, install the plug into the tubing coming out of the air spring **see Figure "A"**.

## STEP 4A – INSTALL THE AIR SPRING

(General Motors vehicles, Taurus and Sable station wagons. On HHR, remove jounce bumper first.)

Insert the top of the flattened air spring into the coil spring through the middle of the coil spring with the push to connect air inlet at the middle of the spring pointing to the center of the vehicle **see Figure "B"**.

## PARTS LIST

| DESCRIPTION                      | QTY. |
|----------------------------------|------|
| AIR SPRINGS                      | 2    |
| 18' AIR LINE                     | 1    |
| NYLON TIES                       | 6    |
| PUSH-TO-CONNECT INFLATION VALVES | 2    |
| 5/16" FLAT WASHERS               | 4    |
| PLUGS                            | 2    |

## STEP 4B – INSTALL THE AIR SPRING

(Chrysler, Dodge, Plymouth vehicles, Ford Thunderbird and Mercury Cougar)

**Note:** Do not remove the coil spring on the Thunderbird or Cougar

The vehicles in this section do not have a hole in the lower spring seat. Mark the hole to be drilled with a center punch in the center of the lower spring seat. Drill a 3/8" hole in the center of the lower spring seat **see Figure "C"**.

The jounce bumper within the coil spring will have to be trimmed to accommodate the air spring. Mark the jounce bumper 1/2" down from the top of the metal retainer. Cut the jounce bumper at this mark and smooth the edges with a file **see Figure "D"**.

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"**.

## 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.

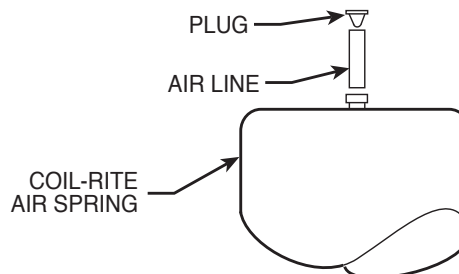


FIGURE "A"

## RECOMMENDED OPERATING PRESSURES

PASSENGER CARS

5 – 35 P.S.I.

## STEP 4C—INSTALL THE AIR SPRING

(Eagle Summit station wagon and Mitsubishi Expo)

**Note:** Your vehicle may not have a hole in the lower spring seat to allow the air line to pass through. If no hole exists, follow “Prepare the vehicle for installation.” If your vehicle does have a clearance hole, proceed to “Installing the air spring.”

## PREPARE THE VEHICLE FOR INSTALLATION

Mark the hole to be drilled with a center punch in the center of the lower spring seat. Drill a 3/8" hole in the center of the lower spring seat **see Figure “C”**.

## STEP 4D—INSTALLING THE AIR SPRING (NISSAN)

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”**.

## STEP 5—ADJUST 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 or 1/2" extension. Do NOT use any thing with sharp edges or corners, as this may damage the air spring.

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. Insert the lower support between the air spring and the lower spring seat **see Figure “F”**.

## STEP 6—RE-ATTACH THE SHOCK ABSORBER

Attach the shock absorber if it was removed earlier in the installation.

**Repeat steps 4 through 6 for the opposite side of the vehicle**

## STEP 7—ROUTE THE AIR LINE

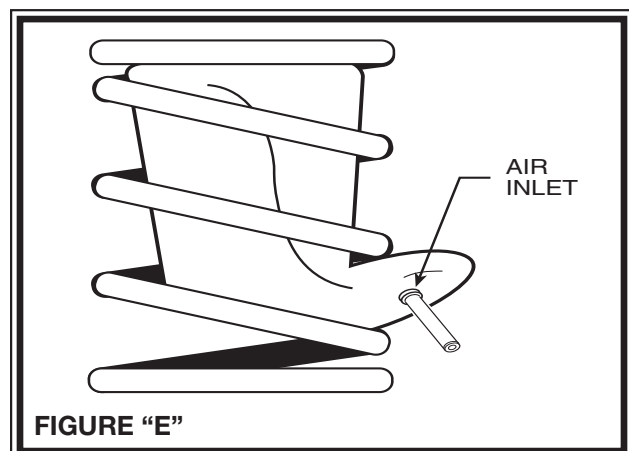
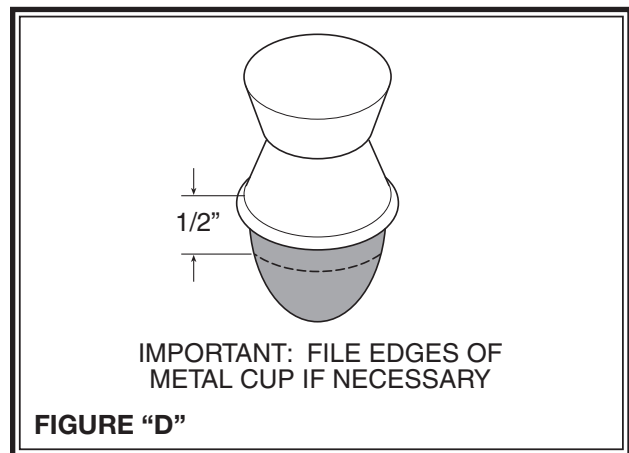
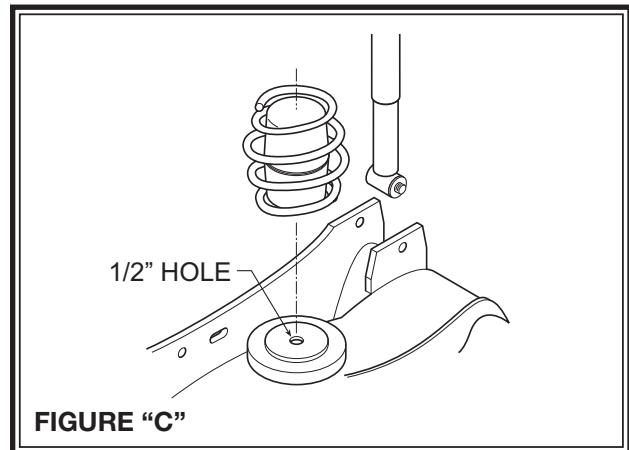
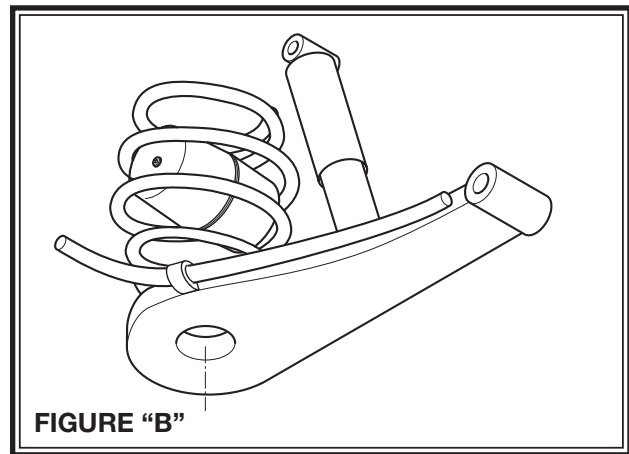
Cut the air line tubing into two equal lengths, making sure the tubing is cut as squarely as possible (a “saw” cut with a sharp knife or razor blade is preferred). Select a location for the inflation valves in a protected area, such as: on the bumper or body (Note: The inflation valve will be installed in Step 8).

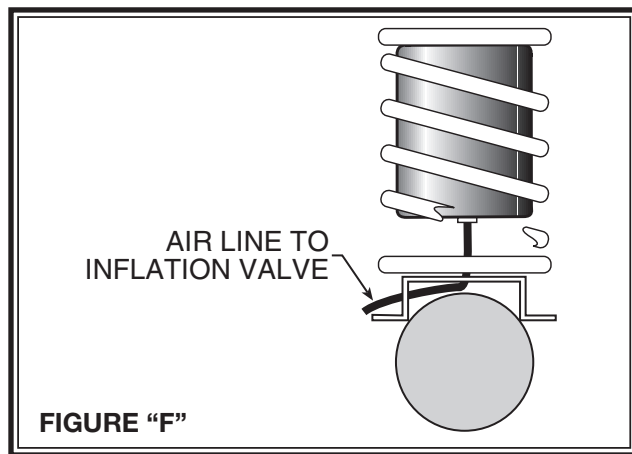
Insert the air line tubing into the push-to-connect fitting on the air spring as far as possible. Route the air line from the air spring to the desired inflation valve location.

With the tubing routed from the air spring to the location of the inflation valve use, the nylon ties supplied to secure the air line tubing to the vehicle as shown in **Figure “G”**. Be careful to avoid areas of high heat and sharp edges when fastening the tubing to the vehicle.

## STEP 8 - INSTALL THE INFLATION VALVE

Drill a 5/16" hole where you wish to mount the inflation valve. Remember to keep the inflation valve in a protected area that is easily accessible. Attach the inflation valve to the bumper or body of the vehicle as shown in **Figure “H”**. Tighten all nuts at this time.





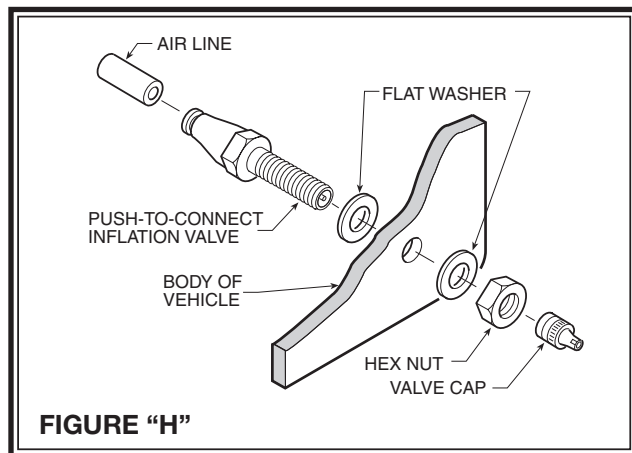
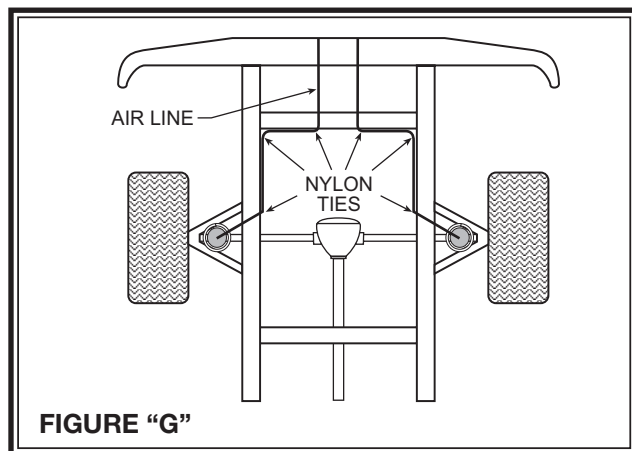
Cut the excess air line tubing so that it will fit easily into the inflation valve, making sure the end is cut squarely (a "saw" cut with a sharp knife is preferred). Push the end of the tubing into the inflation valve as far as possible.

### **STEP 9—INFLATE AND TEST**

Inflate the air springs to recommended maximum 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 small increments to find the ideal riding condition for your vehicle.

### **STEP 10—COMPLETION**

Installation is now complete. Replace the wheels and torque the lug nuts to the manufacturer's specification. Raise the vehicle and remove the jack stands and lower the vehicle to the ground. Re-attach the positive battery cable.





# Do Not Return This Product to the Dealer or Distributor

## If you are

- missing parts,
- experiencing installation problems, or
- have technical concerns regarding this product,

you may contact a Firestone Technical Service Representative at [rrtech@fsip.com](mailto:rrtech@fsip.com) or at 800-888-0650 (option 1, and then option 2). Representatives are available from 7:30 a.m. – 4:30 p.m. Eastern on Monday – Friday, excluding holidays. If you are located outside of the United States, you should first contact your distributor or dealer directly with any issues.

When contacting Technical Service, please have the kit or part # ready, along with the make, model, and year of the vehicle. You may also need to provide details, such as 2WD/4WD or if the vehicle has been lifted or lowered from stock height.

If you have a warranty concern, please include in your email a detailed description of the situation, a photo(s) of the issue, and your contact information, including ship-to address.

**WARRANTY COVERAGE\***— The Ride-Rite™ kits, components, and accessories are warranted against defects in workmanship and materials. This warranty does not cover service or labor charges, neglect...to the product.

### **PERIOD OF COVERAGE:**

- |                                             |                                                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------|
| • Ride-Rite air springs – Lifetime Limited  | • Work-Rite load assists – 2 Years Limited                                       |
| • Sport-Rite air springs – Lifetime Limited | • Air-Rite accessories – 2 Years Limited                                         |
| • Coil-Rite air springs – Lifetime Limited  | • Brackets, hardware, fittings, air line, and other components – 2 Years Limited |
| • Level-Rite air springs – Lifetime Limited |                                                                                  |

**HOW TO MAKE A WARRANTY CLAIM** — If you purchased your air springs in the U.S. or Canada and believe you have a part with a warrantable defect, call Firestone directly at 1-800-888-0650.

International customers should contact their distributors or dealers directly with any problems.

(\*) Please refer to the “Firestone Limited Lifetime Air Spring Warranty” for details, terms, and conditions.

## **WARRANTY QUESTIONS**

Go to [www.riderite.com/installation-support](http://www.riderite.com/installation-support)

Select “Warranty Info” tab