



4139 / 4140/ 4151
4153 / 4155 / 4186

INSTALLATION INSTRUCTIONS

Read installation instructions in its entirety before installing your Coil-Rite Kit

NOTE 1:

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.

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 pressure for your specific vehicle. Improper use or over inflation may cause property damage or severe personal injury.

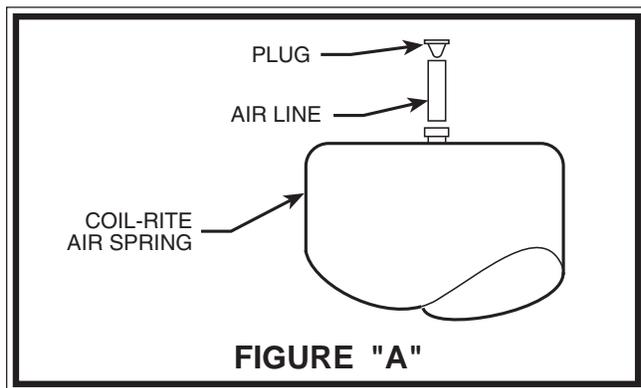


FIGURE "A"

PARTS LIST

DESCRIPTION	QTY.
AIR SPRING	2
LOWER SUPPORT	2
18' AIR LINE	1
NYLON TIE	6
PUSH-TO-CONNECT INFLATION VALVE	2
5/16" FLAT WASHER	4

23-8521

STEP 1 - PREPARE THE VEHICLE

Remove the negative battery cable. With the vehicle on a solid level surface chock the front wheels. Raise the rear of the vehicle using a lift or platform jack rated for your vehicle's weight. Remove the rear wheels. Lower the vehicle onto jack stands rated for your vehicle's 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. Do not put strain or tension on the flexible brake line.

STEP 3 - PREPARE THE AIR SPRING

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 4 - INSTALL THE AIR SPRING

Insert the top of the flattened air spring into the coil spring through the lowest opening of the coil spring with the push to connect air inlet at the bottom of the coil spring see Figure "B".

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 1/2" socket 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 from the air spring. The tubing can easily be removed from the air springs. Push the collar on the fitting towards the air spring and pull out the tubing. 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 "C".

STEP 6 - REATTACH THE SHOCK ABSORBER

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

OPERATING PRESSURE RANGE

Minimum - 5psi

Max (loaded) - 35psi

08-10

NCD-6141-5

COIL-RITE INSTALLATION PROCEDURE

REPEAT STEPS 3 - 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 is preferred). Select a location on the vehicle for the inflation valves. The location can be on the bumper or body of the vehicle, as long as it is a protected location so the valve will not be damaged, but maintain accessibility for the air chuck *see Figure "D"*. 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 "D"*. Be careful to avoid heat and sharp edges when fastening the tubing to the vehicle. Route the tubing away from the exhaust system.

STEP 8 - INSTALL THE INFLATION VALVE

Drill a 5/16" hole and install the air inflation valve using two 5/16" flat washers as supports *see Figure "E"*. Run the tubing from the air helper spring to the inflation valve, routing it to avoid direct heat from the exhaust pipe and away from sharp edges.

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). The air line tubing should not be bent or curved sharply, as it may buckle. Secure the tubing in place with the nylon ties provided. Push the end of the air line tubing into the inflation valve *see Figure "E"*.

STEP 9 - INFLATE AND TEST

Inflate the air springs to recommended maximum operating pressure (see page 1 for operating pressures). With an applied solution of soap and water, check for air leaks around the fittings and valve core. Replace the wheels and torque the lug nuts to the manufacturer's specification. Jack the vehicle up, remove the jack stands, and lower the vehicle to the ground. Remove the wheel chocks from the front wheels. Reattach the negative battery cable. We recommend inflating and deflating in 5 p.s.i. increments to find the ideal riding condition for your vehicle.

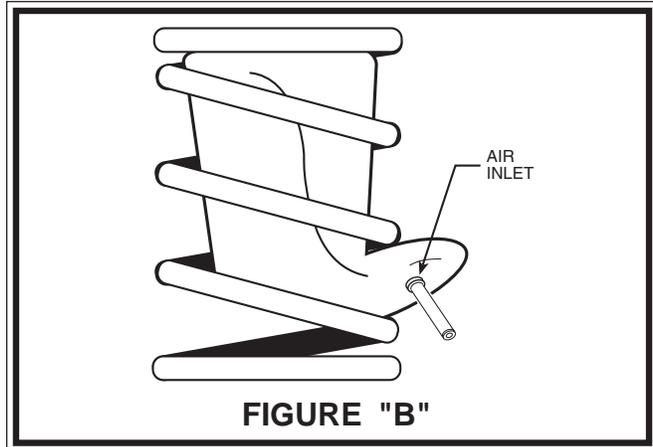


FIGURE "B"

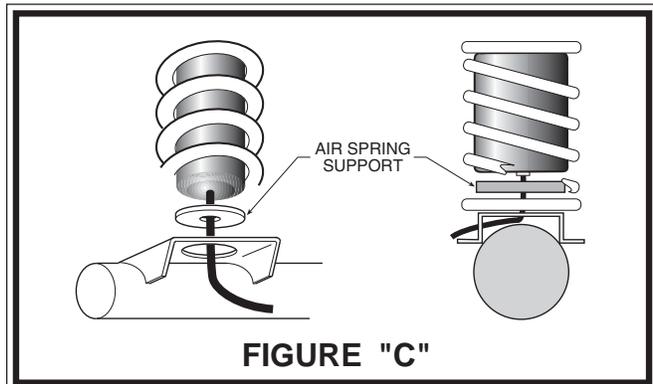


FIGURE "C"

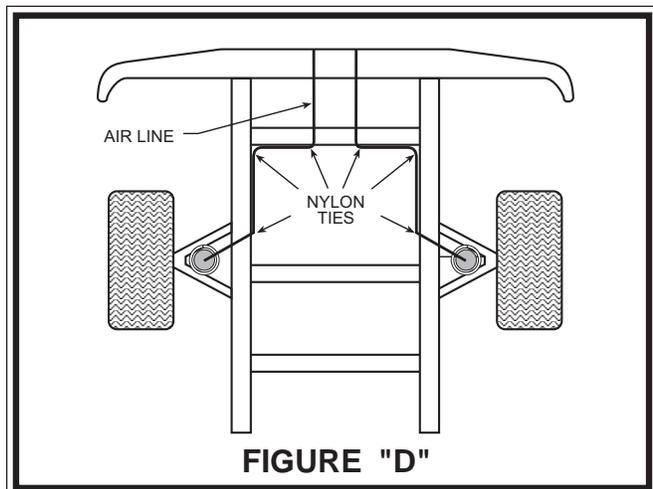


FIGURE "D"

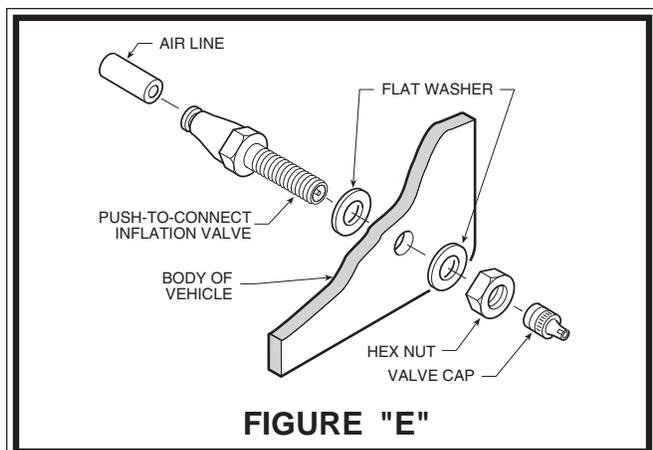


FIGURE "E"

NOTE: CHECK AIR PRESSURE ON A MONTHLY BASIS.

PLEASE TAKE ALL NECESSARY SAFETY PRECAUTIONS WHEN INSTALLING YOUR COIL-RITE KIT.

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

PARTS LIST

DESCRIPTION	QTY.
HEAT SHIELD	1
CLAMPS	2

EXHAUST CLEARANCE MODIFICATION

The exhaust clearance from the air spring should be no less than 2 inches. If necessary, loosen the exhaust clamps and rotate the the exhaust pipe to obtain additional clearance. Tighten the exhaust clamps after rotation.

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 degee 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"*.

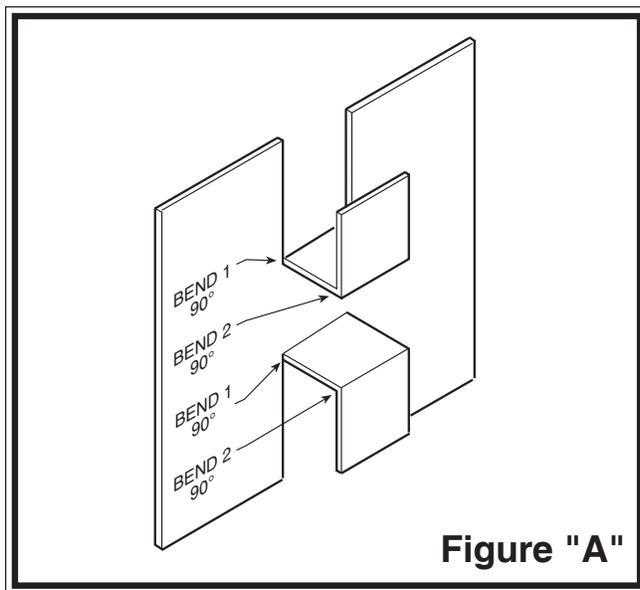


Figure "A"

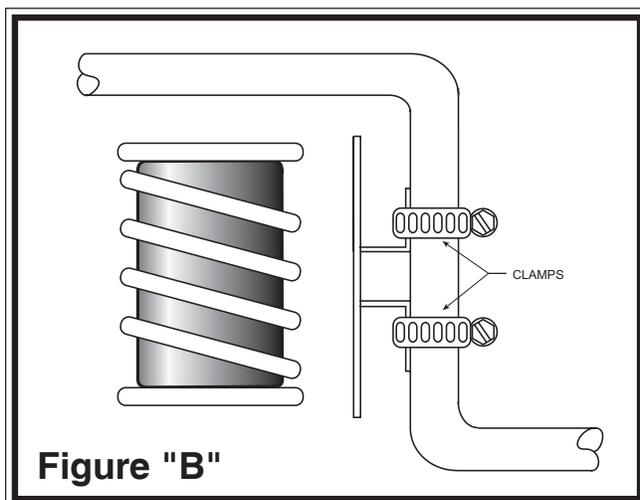


Figure "B"

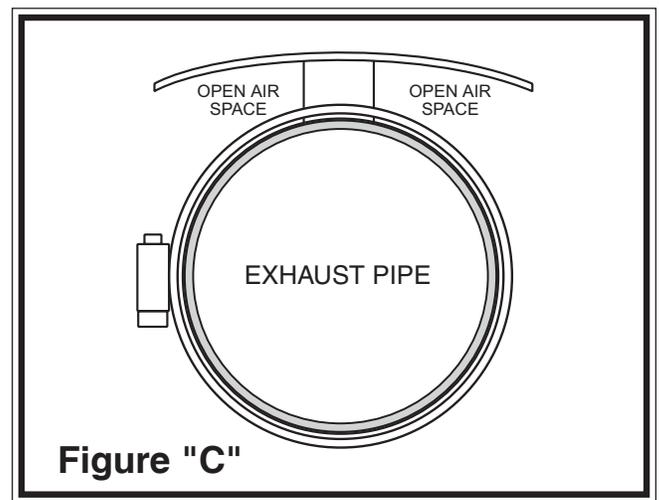
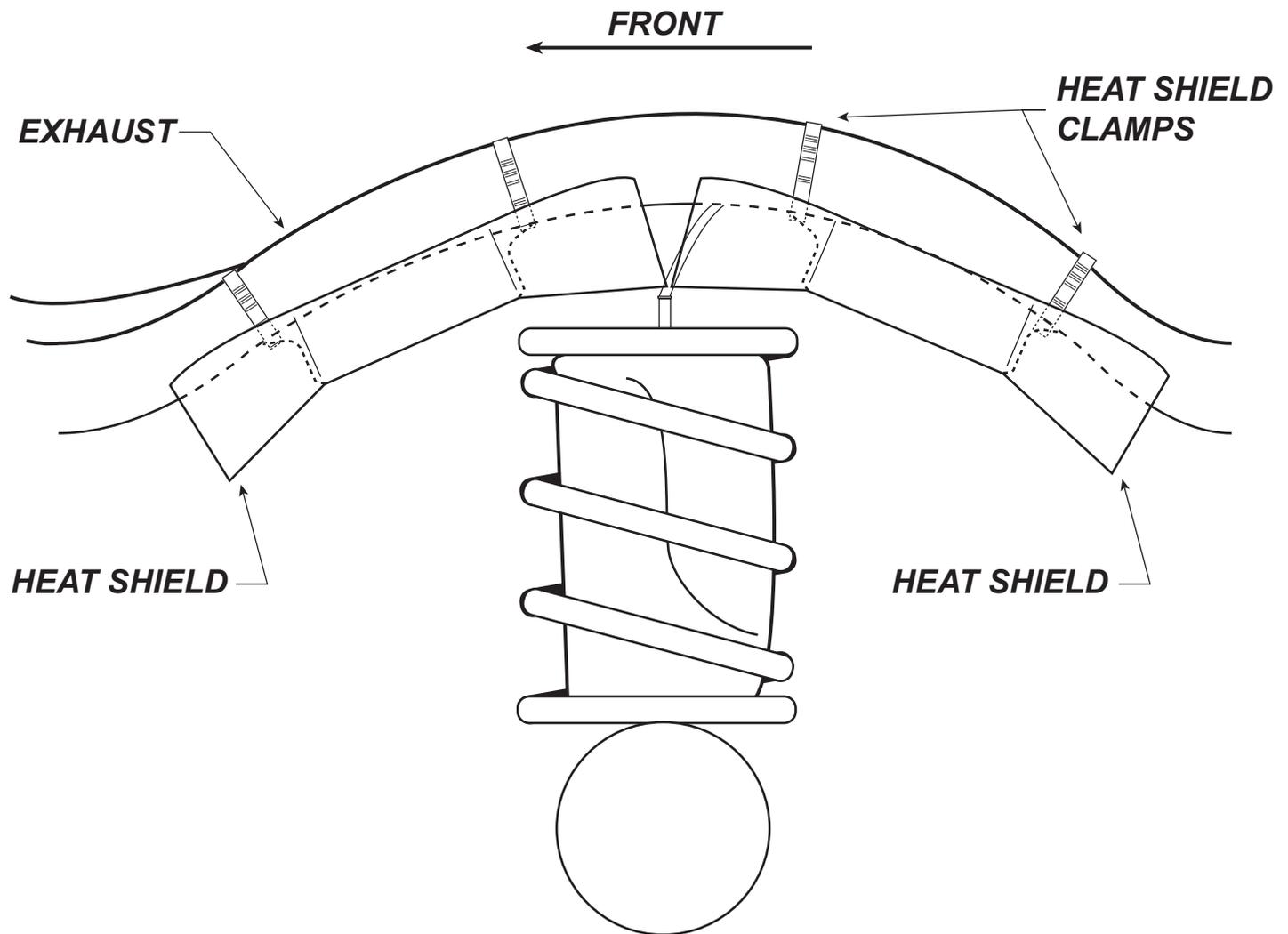


Figure "C"

NOTICE:

Avalanche, Escalade, Escalade EXT, Suburban 1500, Tahoe, Yukon 1500

Your vehicle will require the use of two heat shields. Make sure that the first heat shield is forward of the Coil-Rite spring, and the second heat shield is to the rear of the first heat shield.

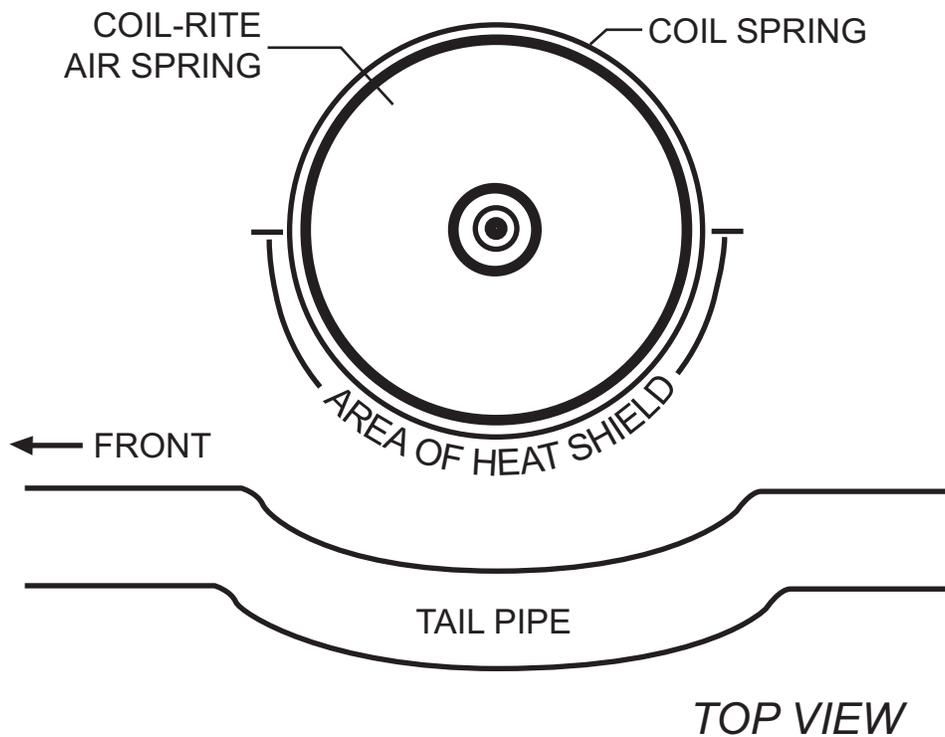
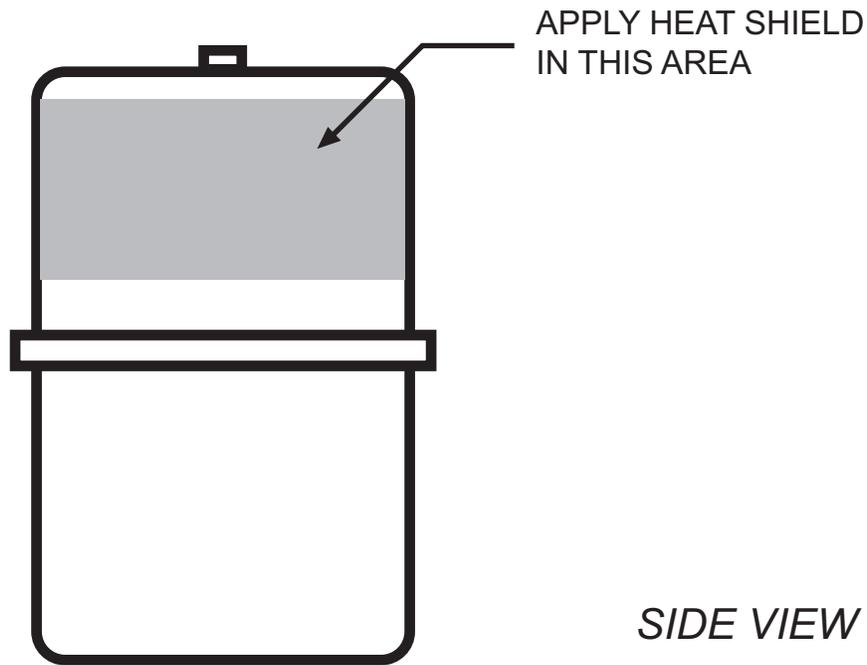


MAXIMUM PRESSURE: 35 PSI

For vehicles 2011 +

MAXIMUM PRESSURE: 25 PSI

For vehicles from 2000 to 2010



AIR SPRING HEAT SHIELD

To install the air spring heat shield, remove the backing on the adhesive side of the material and apply the heat shield to the upper section of the Coil-Rite air spring. See the “Side View” illustration. When the Coil-Rite air spring is installed inside the coil spring, make sure the heat shield is facing the tail pipe. See the “Top View”.



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 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.

FIRESTONE LIMITED LIFETIME AIR SPRING WARRANTY

Firestone Industrial Products Company LLC ("Firestone") warrants that its Ride Rite Air Spring Assembly will perform according to the manufacturer's specifications for as long as the vehicle on which the system was originally installed is owned by the original retail purchaser. This limited warranty does not include installation or other service charges for replacement.

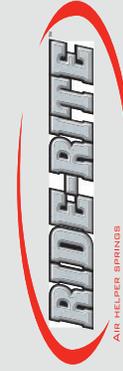
Warranty Period

The Air Spring is warranted for as long as the original purchaser owns the vehicle on which it was originally installed. The fasteners and upper and lower brackets which accompany the air spring are warranted for a period of twenty-four (24) months or 24,000 miles whichever occurs first. This warranty begins on the original retail delivery date.

What is Covered

Any implied warranties are limited in duration to the coverage period of this warranty (some states do not allow limitation on how long an implied warranty lasts so the above limitation may not apply to you). This Warranty runs in favor of the original retail purchaser when the Ride Rite Air Spring Assembly is used under normal operating conditions according to Firestone's specifications and installed on the appropriate application. This warranty does not apply to Ride Rite Air Spring Assemblies that have been improperly applied, improperly installed, used in racing or off road applications or used for commercial purposes. In addition, the warranty will not apply to products which have not been maintained and serviced according to the instructions that accompany the air spring assembly. The consumer will be responsible for any costs incurred in removing the product from the vehicle and the cost to return the air spring assembly to the dealer or installer from which it was purchased. If it is determined that the Ride Rite Air Spring Assembly failed as a result of a manufacturing defect, Firestone will repair or replace, at its option, any product or components subject to this warranty. You should retain a copy of your contract with your installer and your receipt as proof of the date of installation. This warranty is non-transferable and is not assignable in any way.

Firestone specifically excludes any obligation for consequential damages or incidental expenses including claims for loss of use of the product, loss of time, inconvenience, or commercial loss. This warranty gives you specific legal rights. You may also have other rights that may vary from state-to-state. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages. The above limitation or exclusion may not apply to you. There are no warranties, express or implied, including implied warranty of merchantability and fitness which extend beyond this warranty.



Firestone
World's Number 1
Air Spring.

FIRESTONE INDUSTRIAL PRODUCTS COMPANY