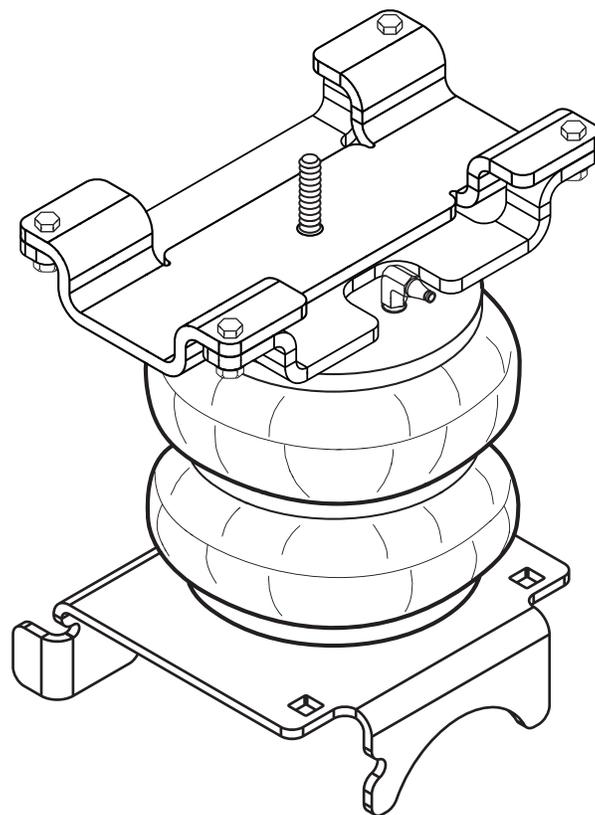




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INSTALLATION INSTRUCTIONS



Firestone

Firestone Industrial Products

! IMPORTANT

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

DO NOT INSTALL IF THE VEHICLE HAS BEEN LIFTED AND THE STOCK BOUNCE BUMPER SPACERS ARE NOT ON THE VEHICLE. THIS KIT DOES NOT INCREASE YOUR VEHICLE'S MAXIMUM LOAD.

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.

KIT CLEARANCE

There must be a minimum of 1/2" clearance around all installed components when the air springs are inflated and under a load. The air springs must flex and expand during operation, so the clearance keeps the kit from rubbing against parts of the vehicle.

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.

PRESSURE TO LOAD

The air springs will support approximately 50 lbs. of load for each PSI of inflation pressure (per pair). For example, 50 PSI of inflation pressure will support a load of 2500 lbs. per pair of air springs.

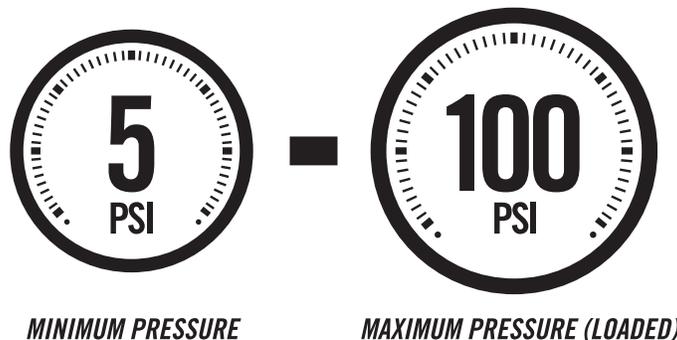
APPROPRIATE AIR PRESSURE

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).

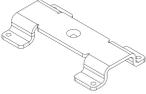
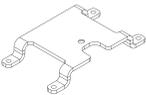
ONCE INSTALLED SUCCESSFULLY, FOLLOW THESE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS:



PARTS

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

MAIN KIT CONTENTS

PT # 6784	 x2 AIR SPRING	PT # 5927	 x2 LOWER BRACKET	PT # 0025	 x1 HEAT SHIELD
PT # 5925	 x2 FRAME BRACKET	PT # 0530	 x2 AXLE STRAP BRACKET	PT # 9415	 x1 AIR LINE TUBE (22 FEET)
PT # 5926	 x2 AIR SPRING BRACKET				

A24-760-7560 INFLATION VALVE BRACKET KIT

PT # 9483	 x1 NO-DRILL INFLATION VALVE BRACKET	PT # 9488	 x2 LARGE NYLON TIE
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A21-760-2621 HARDWARE PACK

PT # 3067	 x4 3/8" - 16 FLANGE LOCK NUT	PT # 0775	 x8 5/16" - 18 x 1" CAP SCREW	PT # 3032	 x2 INFLATION VALVE AND VALVE CAP ASSEMBLY
PT # 3033	 x4 5/16" FLAT WASHER	PT # 3078	 x8 5/16" - 18 FLANGE LOCK NUT	PT # 3031	 x2 AIR FITTING
PT # 3069	 x2 3/8" - 16 x 3/4" FLANGE BOLT	PT # 3293	 x2 M10-1.5 X 30MM FLAT HEAD SCREW	PT # 3012	 x4 3/8" - 16 x 3" CARRIAGE BOLT
PT # 5002	 x2 HOSE CLAMP	PT # 3514	 x2 3/8" - 16 x 1" FLAT HEAD SCREW	PT # 9036	 x6 RED NYLON TIE
				PT # 0899	 x2 THERMAL SLEEVE

OPTIONAL ITEMS

PT # 3025	 x1 T-FITTING
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Visit riderite.com to find the perfect air accessories for your kit.

CONTENTS AND OVERVIEW

PAGE **4** REMOVE JOUNCE BUMPER & INSTALL FRAME NUTS

PAGE **5** INSTALL UPPER BRACKET

PAGE **6** FASTEN AIR SPRING TO UPPER BRACKET

PAGE **7** INSTALL LOWER BRACKET ASSEMBLY

PAGE **8** SECURE LOWER BRACKET ASSEMBLY

PAGE **9** HEAT SHIELD & PASSENGER SIDE

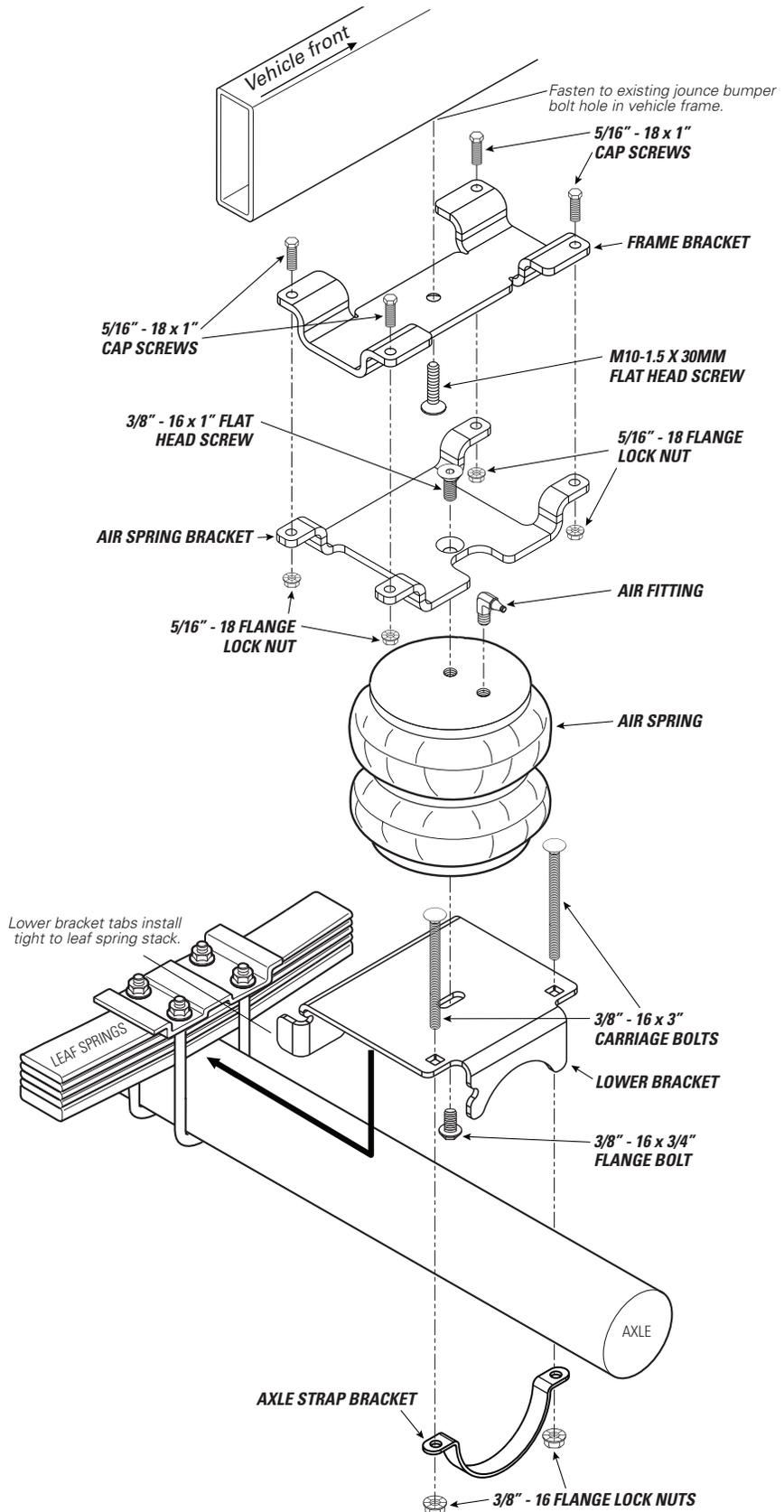
PAGE **10** AIR LINE TUBE & INFLATION VALVE INSTALLATION

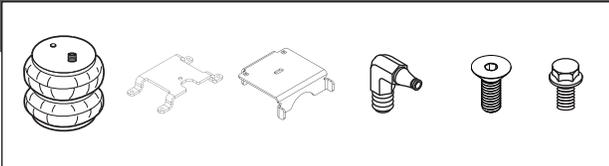
PAGE **11** INSTALL & ROUTE AIR LINE TUBE

PAGE **12** CHECKING THE SYSTEM

PAGE **13** FIXING AN AIR LEAK

PAGE **14** FINISHING THE INSTALLATION





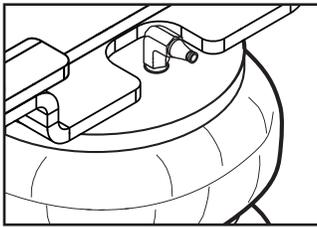
START THE INSTALLATION ON THE LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD.

1 Install air fitting to top of air spring, assuring it is facing the orientation shown.

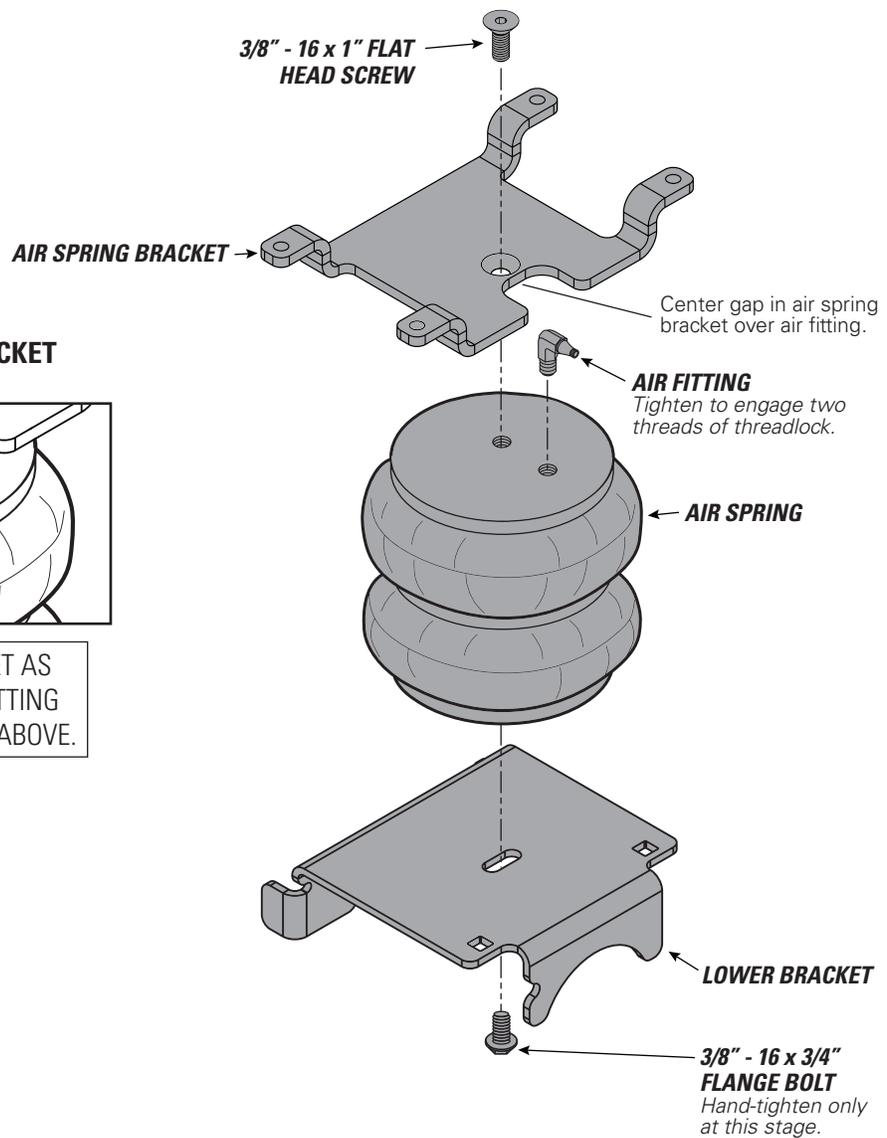
2 Fasten the air spring bracket to the top of the air spring, assuring the gap is centered around the air fitting. For right side, see step 6 for heat shield installation.

3 Fasten the lower bracket to the air spring as shown. **DO NOT FULLY TIGHTEN THE FASTENER AT THIS STAGE.**

AIR SPRING BRACKET ORIENTATION



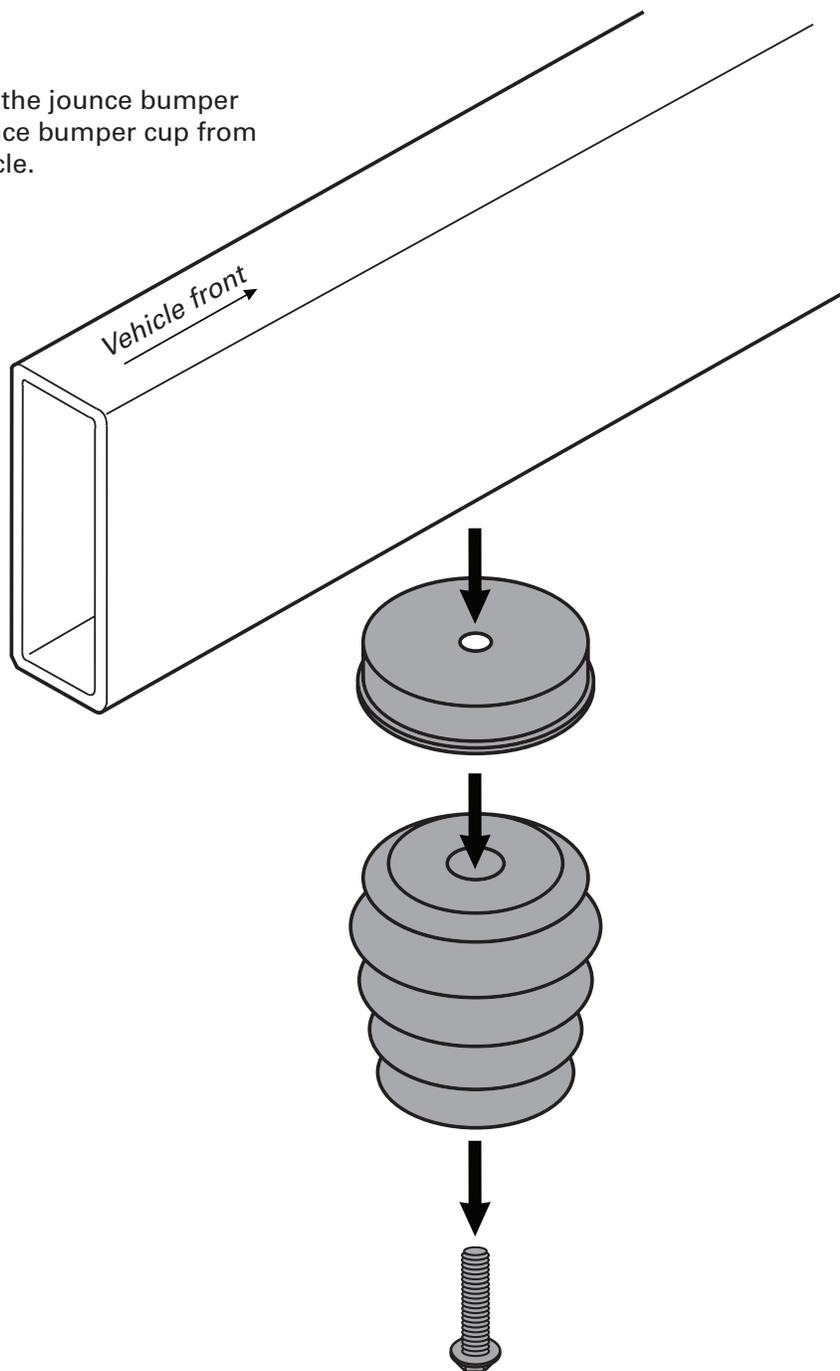
POSITION AIR SPRING BRACKET AS SHOWN. ASSURE THAT AIR FITTING FACES ORIENTATION SHOWN ABOVE.

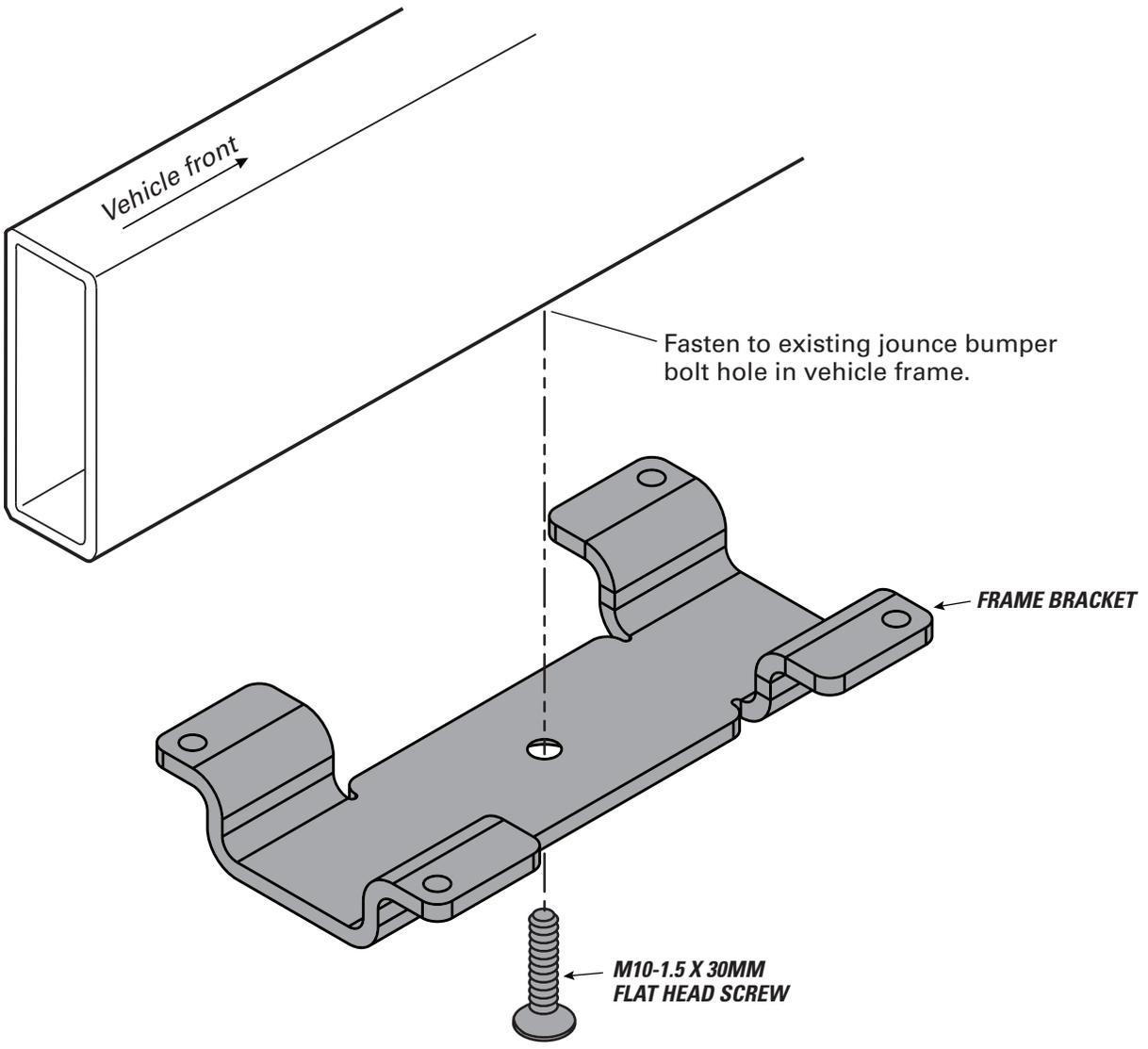
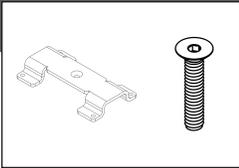


2

REMOVE JOUNCE BUMPER AND CUP FROM VEHICLE

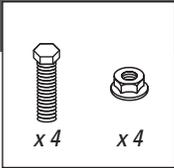
Remove the jounce bumper and jounce bumper cup from the vehicle.



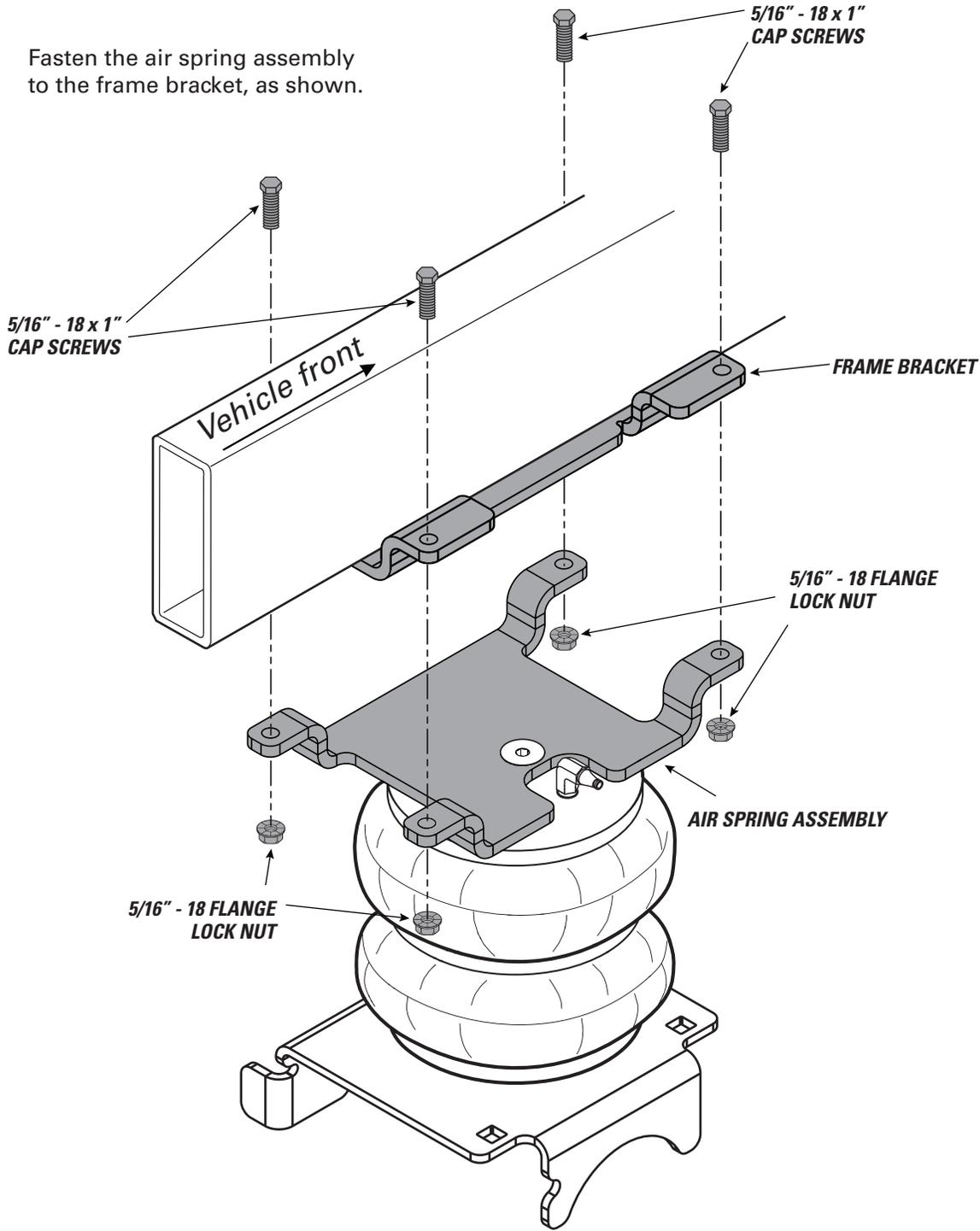


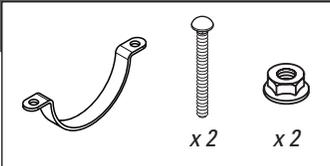
4

INSTALL AIR SPRING ASSEMBLY TO FRAME BRACKET



Fasten the air spring assembly to the frame bracket, as shown.





REMEMBER TO FULLY TIGHTEN THE BOLT TO THE BOTTOM OF THE AIR SPRING AS A FINAL STEP!

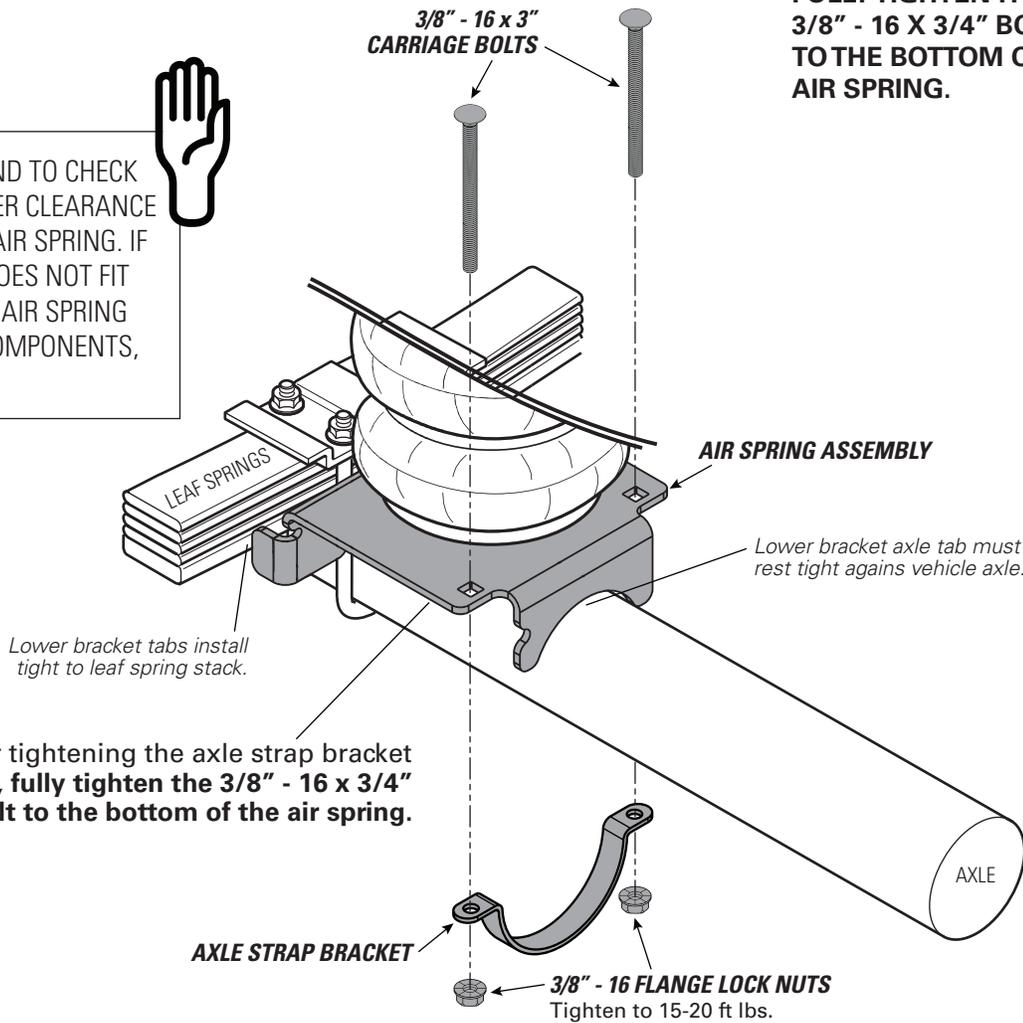


USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



1 Fasten the air spring assembly to the vehicle axle, as shown.

2 After tightening the axle strap bracket fasteners, **FULLY TIGHTEN THE 3/8" - 16 X 3/4" BOLT TO THE BOTTOM OF THE AIR SPRING.**



After tightening the axle strap bracket fasteners, **fully tighten the 3/8" - 16 x 3/4" bolt to the bottom of the air spring.**



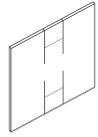
AWESOME! You're done with the left side. The right side is the same, with the addition of the heat shield. See step 7, then complete the steps for the right side installation.

6

INSTALL RIGHT SIDE WITH HEAT SHIELD



x 2



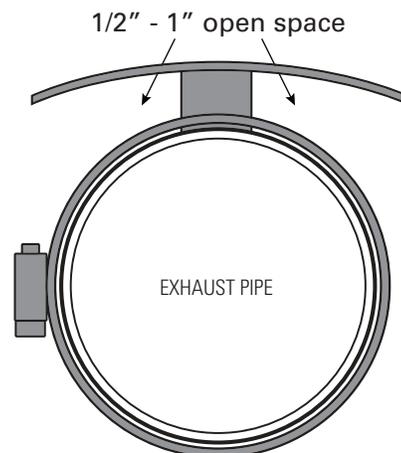
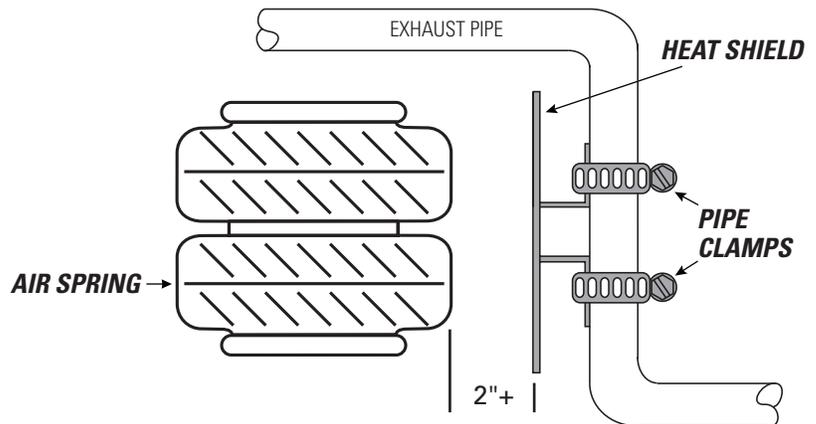
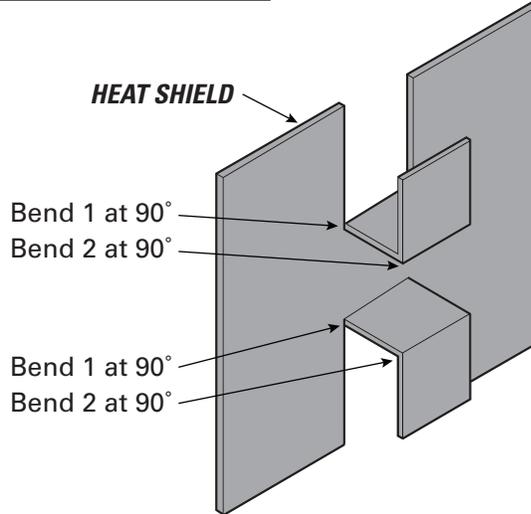
RIGHT SIDE INSTALLATION MUST INCLUDE HEAT SHIELD!

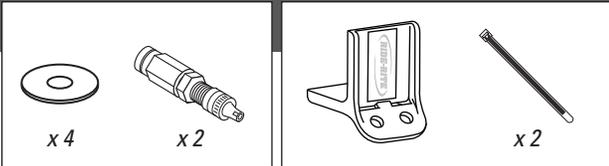
1 Bend both heat shield tabs, as shown.

2 Mount the heat shield between the air spring and the exhaust pipe using the two pipe clamps, as shown. Maintain clearance between the heat shield and vehicle parts, such as the axle or brake lines.

3 Mount the heat shield between the air spring and the exhaust pipe using the two pipe clamps, as shown.

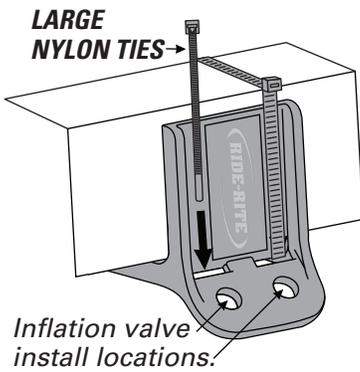
4 Bend the heat shield around the exhaust pipe, while allowing for open air space of 1/2" to 1", as shown.





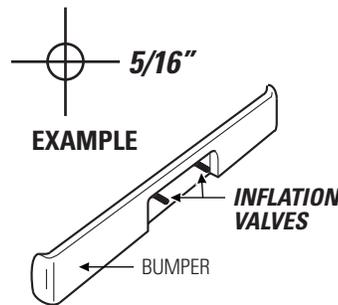
IF USING THE OPTIONAL NO-DRILL INFLATION VALVE BRACKET, CHOOSE OPTION 1. IF DRILLING, CHOOSE OPTION 2. **INFLATION VALVES MUST BE ACCESSIBLE BY AN AIR CHUCK.**

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

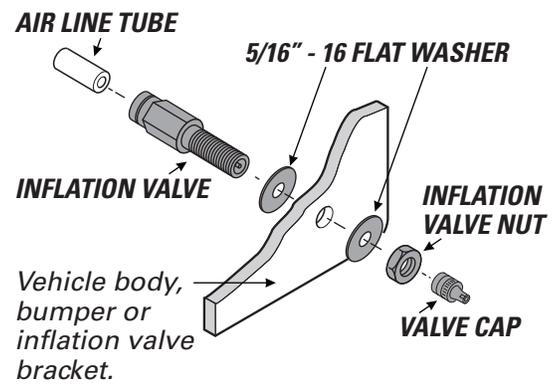


2 Select a protected location to install the inflation valves, such as the bumper or the body of the vehicle.

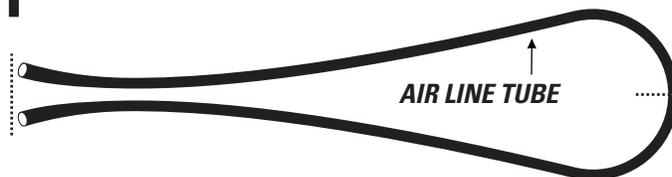
Drill two 5/16" holes for inflation valve install locations.



3 Install inflation valve assembly as shown.



1 Match air line tube ends.



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

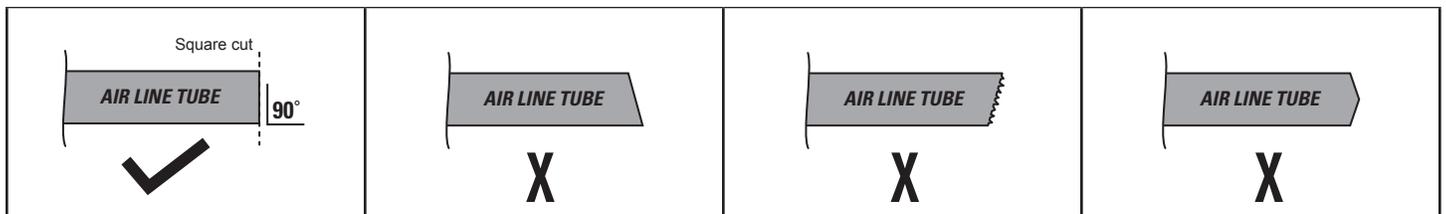
DO

Make sure the cut is as square as possible. Use a tube cutter or sharp utility knife.

DON'T

Fold or kink the air line tube. Cut the air line tube at an angle. Use pliers, scissors, snips, Saws, or side cutters.

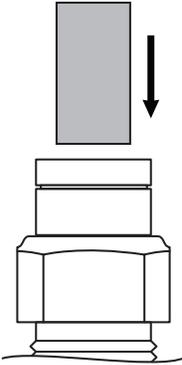
PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE



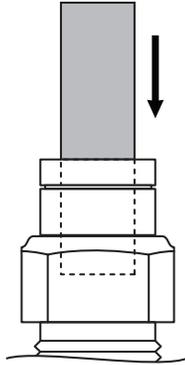
9

INSTALLING AIR LINE TUBE INTO AIR FITTINGS AND INFLATION VALVE

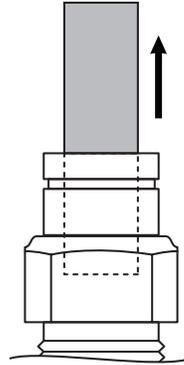
1 Insert end of air line tube into air fitting.



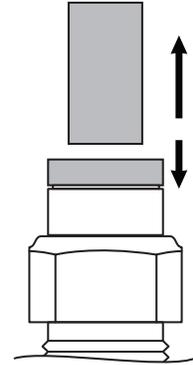
2 Push air line tube into air fitting as far as possible.



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.

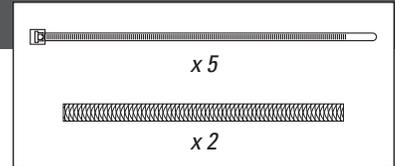


Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

10

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

Select routes protected from heat, Debris, and sharp edges.
Use thermal shields near heat sources.
Use nylon ties to secure the air line tube.

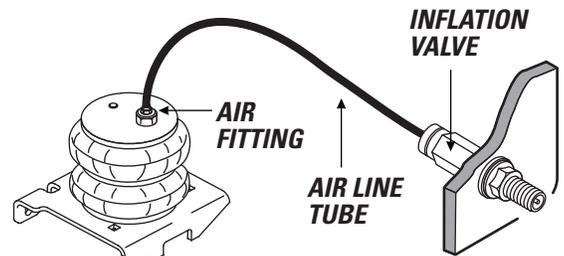
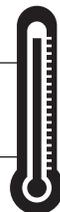
DON'T

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.

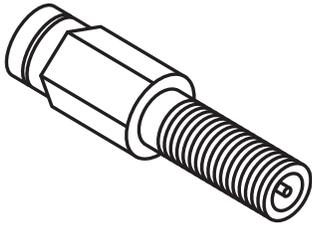
AIR LINE TUBE **THERMAL SHIELD**



USE SUPPLIED THERMAL SHIELDS WHEN AIR LINE TUBE RUNS **WITHIN 6 INCHES** OF HEAT SOURCES.



- 1** Place an air chuck onto the inflation valve and fill the system to **70 PSI**.

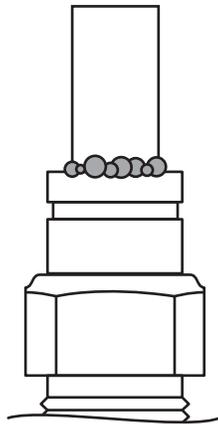


AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING.

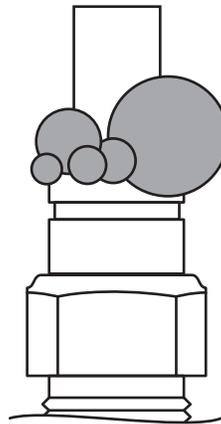
- 2** Spray fittings with soap and water mixture or glass cleaner.



- 3** Observe bubbles.



**SMALL SOAP BUBBLES
THAT DO NOT EXPAND**



**SOAP BUBBLES
THAT EXPAND**



NO LEAKS?

Congratulations! Continue to step 13 to finish installation. Review the Operating Instructions.

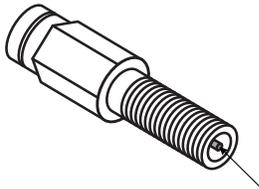
LEAK?

Bummer. Continue to step 12 to fix the leak.

12

FIXING AN AIR LEAK

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

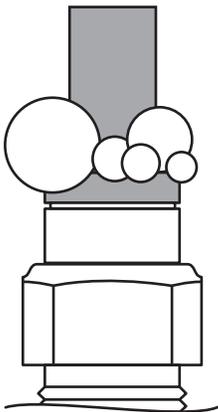


AIR VALVE



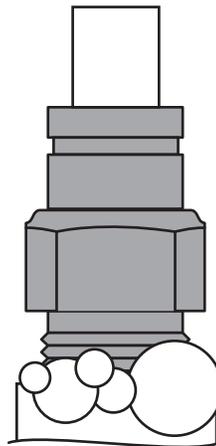
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR LINE TUBES FROM AIR FITTINGS.

LEAK AT AIR LINE TUBE AND AIR FITTING



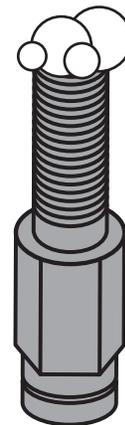
Release air line tube (see page 11). Review proper cuts and procedures in step 8. Repeat steps 9 and 11.

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.

DOUBLE-CHECK AIR SPRING CLEARANCE

Check the air springs once again for the proper 1/2" minimum clearance. Perform clearance check again when vehicle is under load.

VEHICLE GVWR

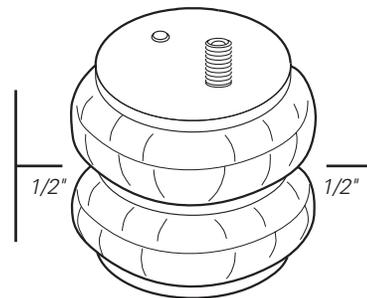
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

READ AND UNDERSTAND THE OPERATING INSTRUCTIONS

The Ride-Rite system can improve handling and comfort. Take the time to learn how to properly use and maintain your investment by reading the Operating Instructions.



USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



! 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



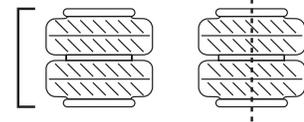
MAXIMUM PRESSURE (LOADED)



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BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

- Do you have a minimum of 5PSI in your air springs?
- Are your air springs standing 5 1/2" - 6 1/2" tall?
- Are your air springs properly aligned, left-to-right and front-to-back?
- Are your nuts and bolts tight?
- Put your paper work back into the sleeve and keep it in your glove compartment for future reference.
- You've been bagged...and now your suspension is Airide™ equipped! Show it off with the supplied decal!



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.

Firestone

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