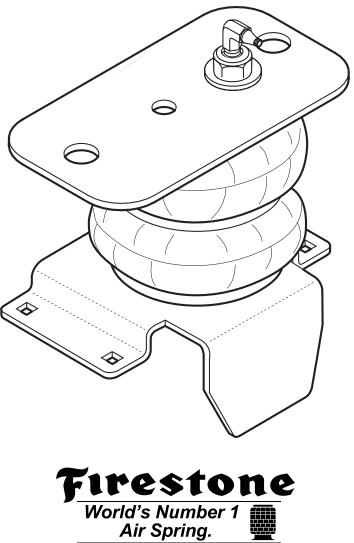


riderite.com

### **INSTALLATION INSTRUCTIONS**



FIRESTONE INDUSTRIAL PRODUCTS COMPANY

05-19

# **! IMPORTANT**

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

#### This kit is to be used on a pickup truck only, and 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.

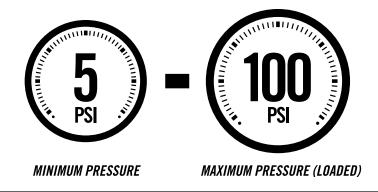
#### **APPROPRIATE AIR PRESSURE**

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).

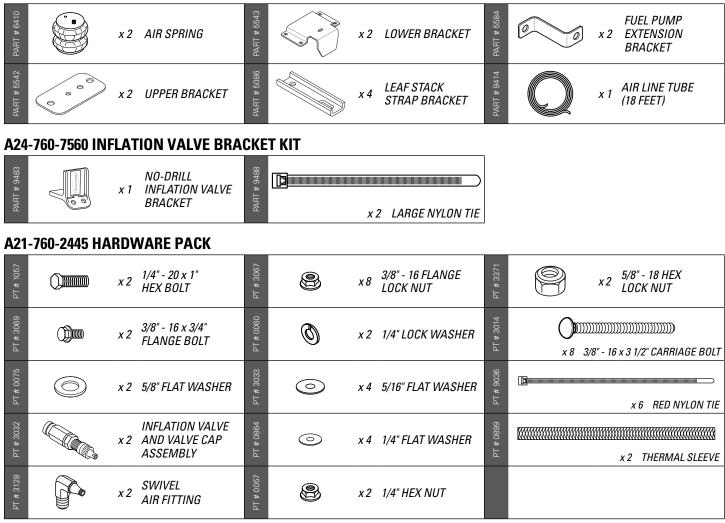
#### ONCE INSTALLED SUCCESSFULLY, FOLLOW THESE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS:



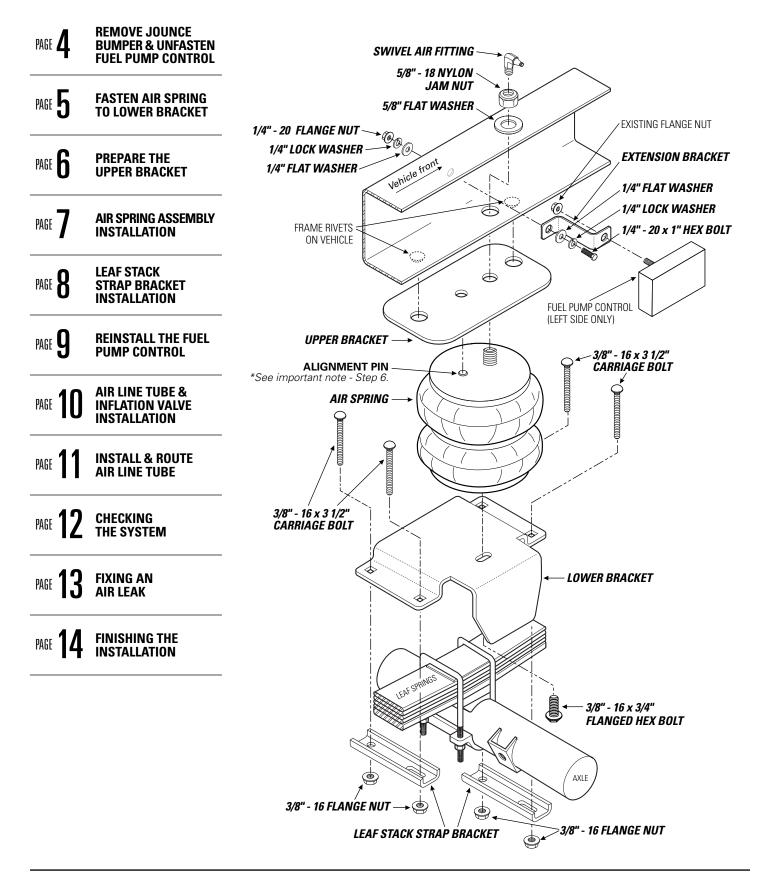
# PARTS

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

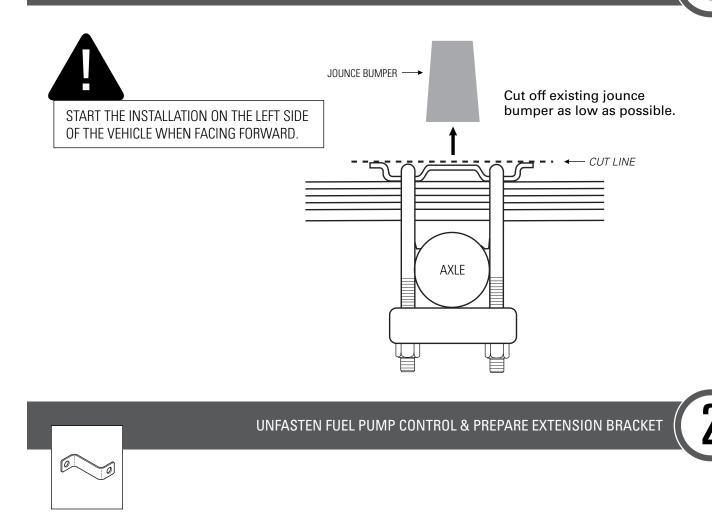
#### **MAIN KIT CONTENTS**



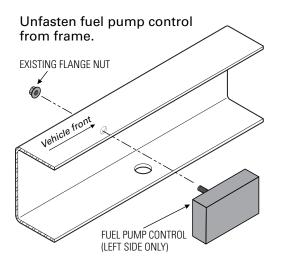
# **CONTENTS AND OVERVIEW**



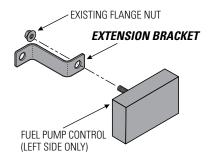
#### **REMOVE EXISTING JOUNCE BUMPER**

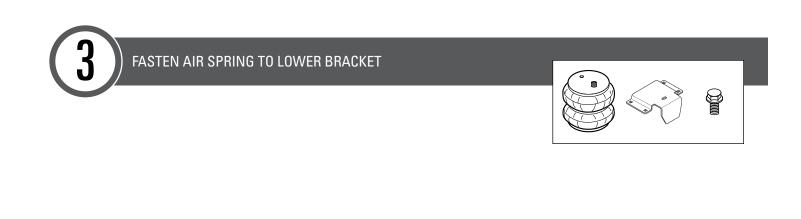


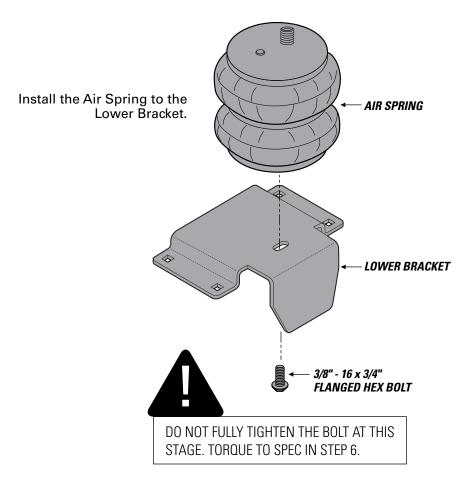
#### **LEFT SIDE ONLY**

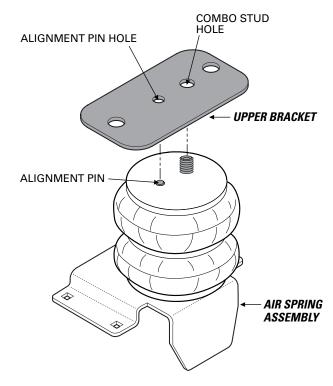


Use existing flange nut to fasten the fuel pump control to the Extension Bracket. Do not yet fasten the Extension Bracket to the vehicle frame.



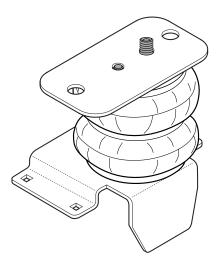






Place the Upper Bracket on top of the Air Spring, as shown.

Make sure the Alignment Pin is fully seated in the alignment pin hole in the Upper Bracket.



0

**INSTALL AIR SPRING ASSEMBLY** Follow guidelines below to dry fit assembly. Make alignment marks as shown. THE EMERGENCY BRAKE BRACKET MAY NEED TO BE Remove assembly and SLIGHTLY BENT TO ALLOW PROPER CLEARANCE. match alignment marks vou made. SWIVEL AIR FITTING Thread onto inside of Air Combo Stud. Fully tighten the 3/8"-16 x 3/4" Tighten until threadlock coating is fully engaged Flanged Hex Head Bolt on the DO NOT OVERTIGHTEN. bottom of the Lower Bracket. 5/8" - 18 NYLON JAM NUT Thread onto outside of Air Combo Stud. Insert the combo stud on 5/8" FLAT WASHER top of the Air Spring into the hole in the vehicle frame.

Make sure two holes in the Upper Bracket align with the frame rivets on the vehicle.

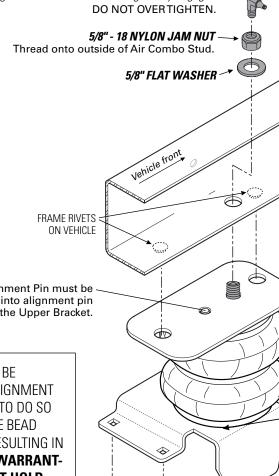
Securely fasten the top of the Air Spring and install the Swivel Air Fitting, as shown.

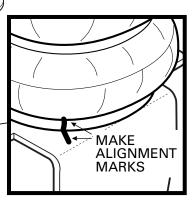


NOTE: Alignment Pin must be correctly seated into alignment pin hole on the Upper Bracket.

ALIGNMENT PIN ON AIR SPRING MUST BE INSTALLED TO FULLY SEAT INTO THE ALIGNMENT HOLE IN THE UPPER BRACKET. FAILURE TO DO SO WILL CAUSE IT TO BE PUSHED INTO THE BEAD PLATE, CREATING AN AIR LEAK, AND RESULTING IN AN AIR SPRING FAILURE THAT IS NOT WARRANT-ABLE. THE ALIGNMENT PIN CANNOT HOLD 2,500 LBS! IT IS USED FOR ALIGNMENT ONLY!

> Carriage Bolt holes in Lower Bracket fall on either side of the leaf spring stack.

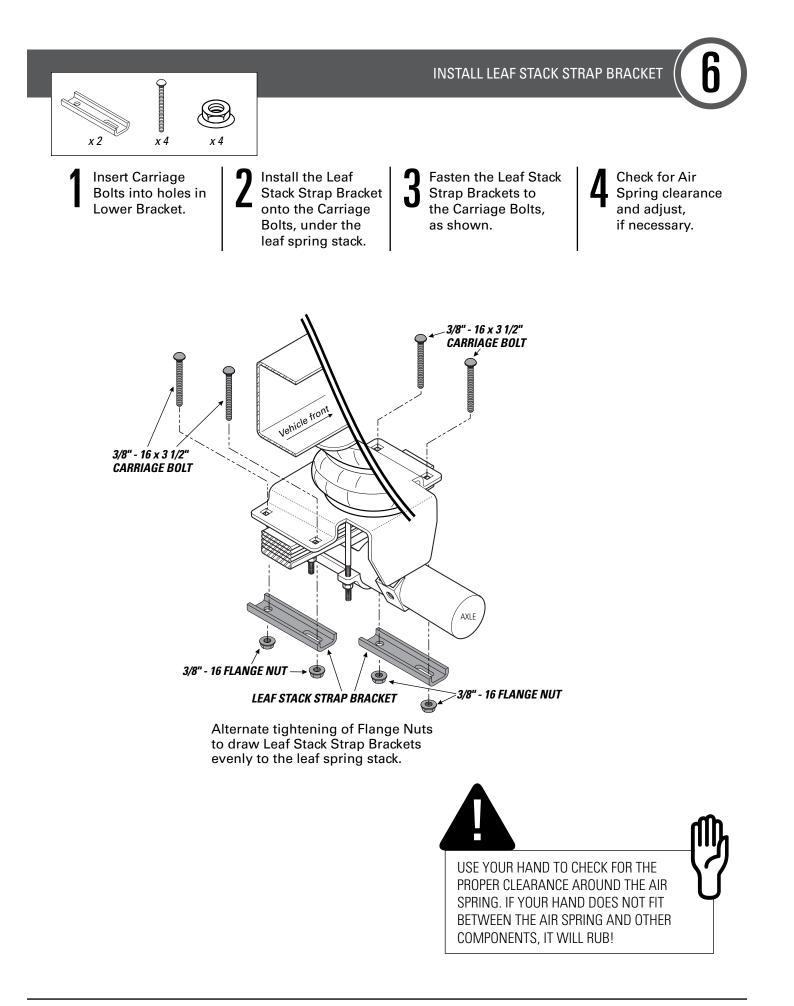


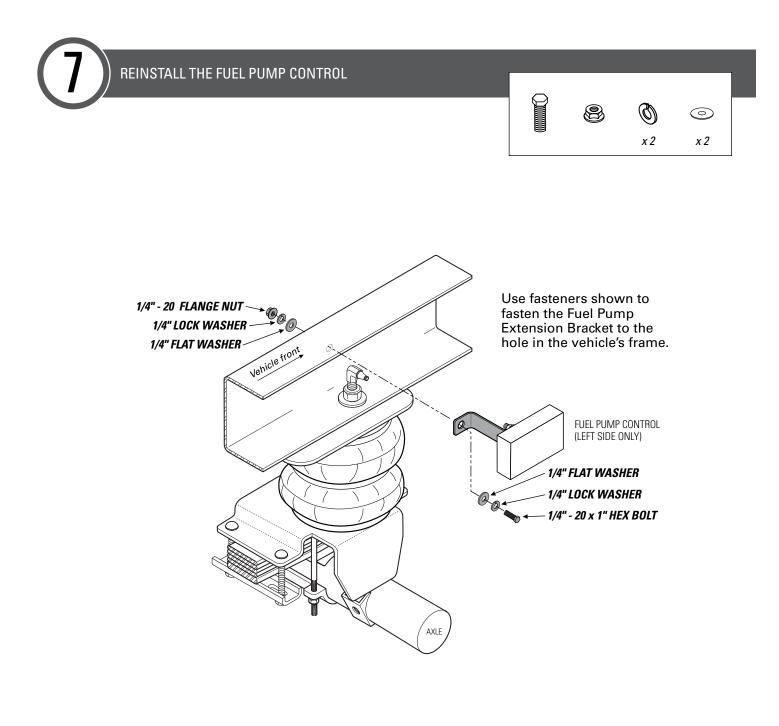


BRACKET EXTENSION WILL CONTACT AXLE TUBE ON MOST STOCK VEHICLES. CONTACT IS NOT REQUIRED FOR PROPER OPERATION.

AXLE

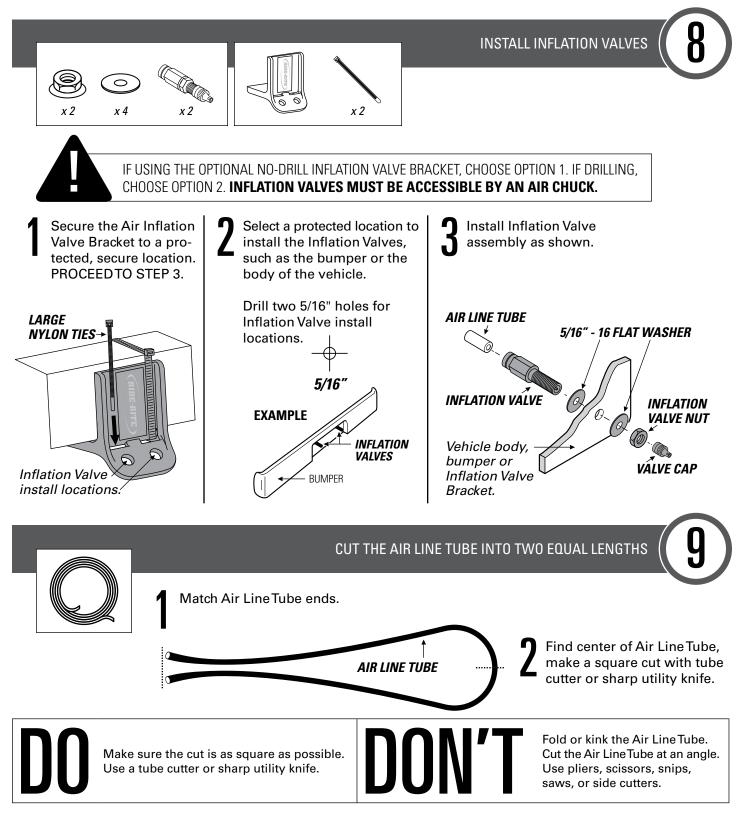
LEAF SPRIN



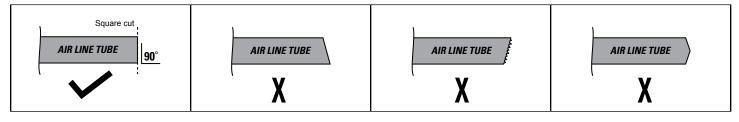


-//	
51	

**AWESOME!** You're done with the left side. The right side installation is the same, with the exception of the Fuel Pump Bracket. Go complete Steps 1-6 for the right side, then continue to Step 8.

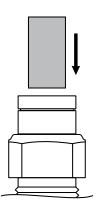


#### PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE

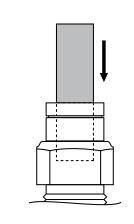




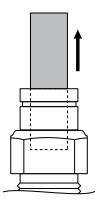
Insert end of Air LineTube into Air Fitting.



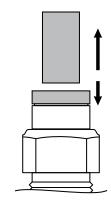
Push Air Line Tube into Air Fitting as far as possible.



Gently pull on the Air Line Tube to check for a secure fit.



To remove, push down collar and gently pull Air Line Tube away.

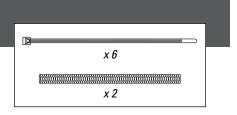


**Removal Tip:** Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.



#### 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.

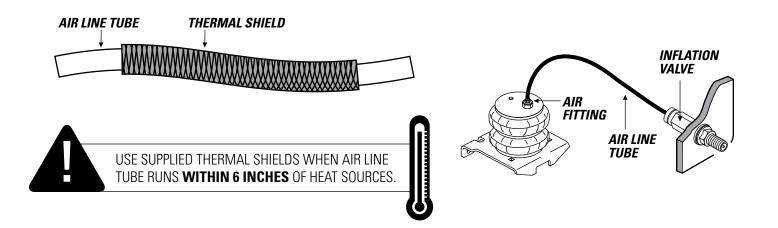


DO

Select routes protected from heat, debris, and sharp edges. UseThermal Shields 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.



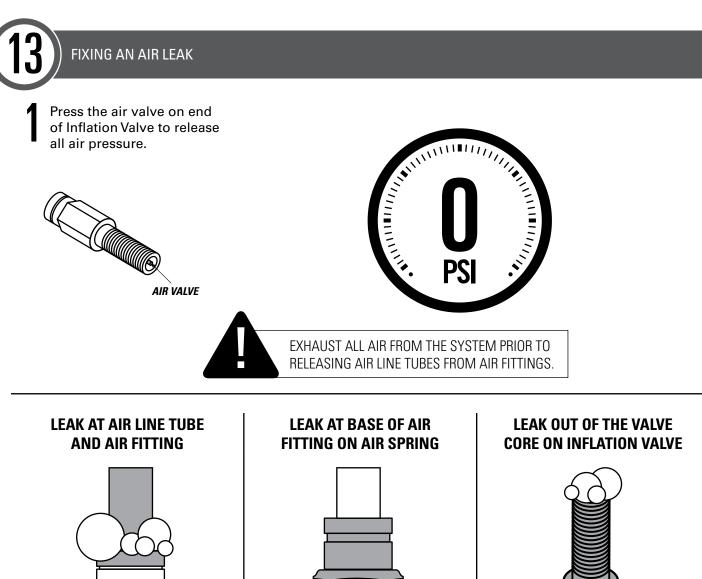
CHECKING THE AIR SYSTEM Place an air chuck onto the Spray fittings with Inflation Valve and fill the soap and water system to 70 PSI. mixture. PS WATER SOAP AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING. Observe bubbles. Source **SOAP BUBBLES SMALL SOAP BUBBLES THAT EXPAND** THAT DO NOT EXPAND X

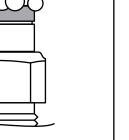
## **NO LEAKS?**

Congratulations! Continue to Step 14 to finish installation. Review the Operating Instructions.

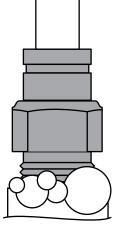
LEAK?

Bummer. Continue to Step 13 to fix the leak.





Release Air Line Tube (see page 11). Review proper cuts and procedures in Step 9. Repeat Steps 10 and 12.



Tighten Air Fitting one turn or until leak stops.



Tighten valve core with valve core wrench on Inflation Valve Cap.

### **STILL HAVE A LEAK?**

Refer to the Troubleshooting section of the Instruction Manual. If the leak persists, or if there is an issue with a leaking part, call 1-800-888-0650; Option 1; Option 1 for Tech Support.



#### 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**

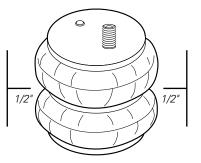
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

#### 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 investement by reading the Operating Instructions.



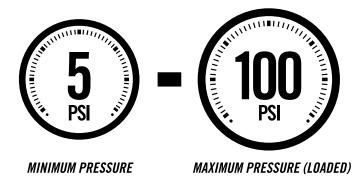
USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



### **! 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.



### riderite.com

### **BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:**

AIR HELPER SPRINGS

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? 1-800-888-0650

Or, email us at **rrtech@fsip.com**. If emailing, please include photos to help us better diagnose and understand any problems you may be experiencing.





5 1/2" - 6 1/2"

