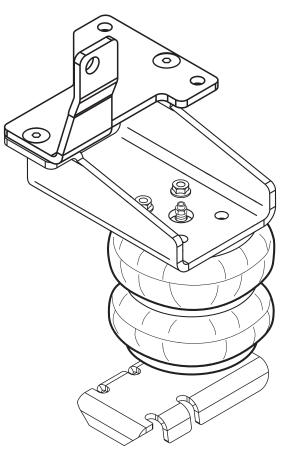


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### **INSTALLATION INSTRUCTIONS**





**Firestone Industrial Products** 

2594

# **! IMPORTANT**

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

**DO NOT INSTALL IF THE TRUCK HAS BEEN LIFTED AND THE STOCK JOUNCE BUMPER SPACERS ARE NOT ON THE VEHICLE.** *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.

#### **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 # 6781	x 2	AIR SPRING	PT # 5862		x 1	RIGHT FRAME BRACKET	PT # 1004	$\bigcirc$	x 1	HEAT SHIELD
PT # 5863	x 2	UPPER BRACKET	PT # 5895	••••••••••••••••••••••••••••••••••••••	x 2	LOWER BRACKET	PT # 9414		x 1	AIR LINE TUBE (18 FEET)
PT # 5861	х 1	LEFT FRAME BRACKET	PT # 5894		x 2	1/4" SPACER	PT # 5893	000	x 2	SPRING CLAMP PLATE

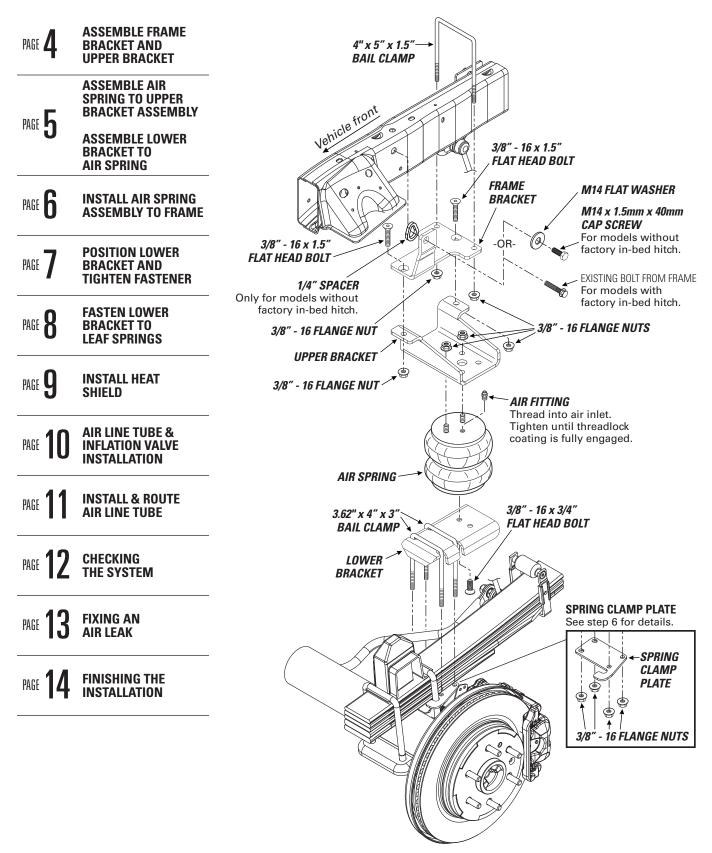
#### A24-760-7560 INFLATION VALVE BRACKET KIT



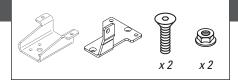
#### A21-760-2594 HARDWARE PACK

PT # 3270		x2	3/8" - 16, 4" x 5" x 1.5" BAIL CLAMP	PT # 3134	x 4	3/8" - 16, 3.62" x 4" x 3" BAIL CLAMP	PT # 9036	x 6 RED NYLON TIE
PT # 3022	9	x 10	3/8" - 16 FLANGE LOCK NUT	PT # 3032	x 2	INFLATION VALVE AND VALVE CAP ASSEMBLY	РТ # 0899	x 2 THERMAL SLEEVE
PT # 3033	0	x 4	5/16" FLAT WASHER	PT # 3046	x 2	1/4" STRAIGHT AIR FITTING	PT # 3470	x 2 M14 FLAT WASHER
PT # 3398		x 4	3/8" - 16 x 1.5" FLAT HEAD BOLT	PT # 3370	x 2	3/8" - 16 x 3/4" FLAT HEAD BOLT	PT # 3512	x 2 M14 x 1.5mm x 40mm CAP SCREW

# **CONTENTS AND OVERVIEW**



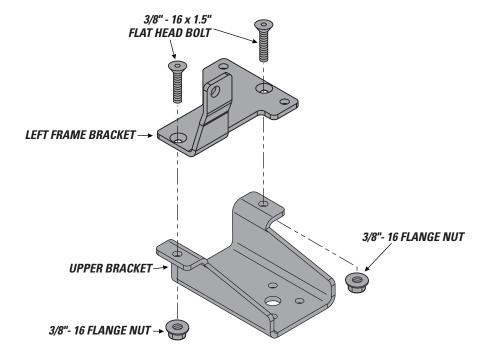
#### ASSEMBLE FRAME BRACKET AND UPPER BRACKET

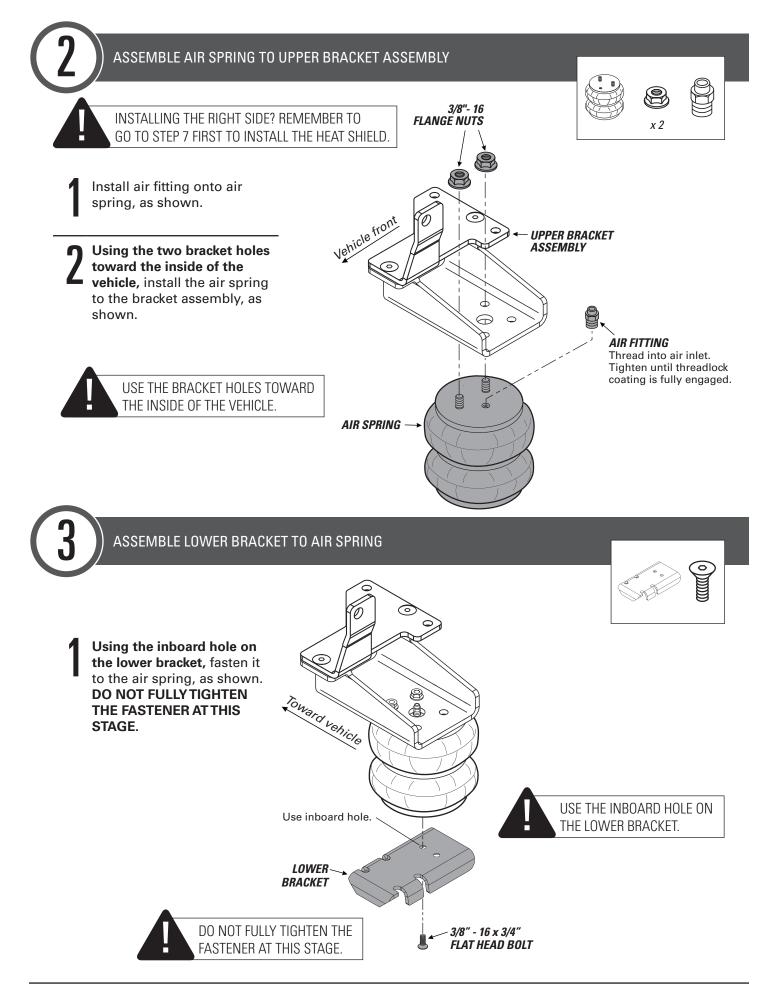


Connect brackets using flat head bolts and flange nuts, as shown.

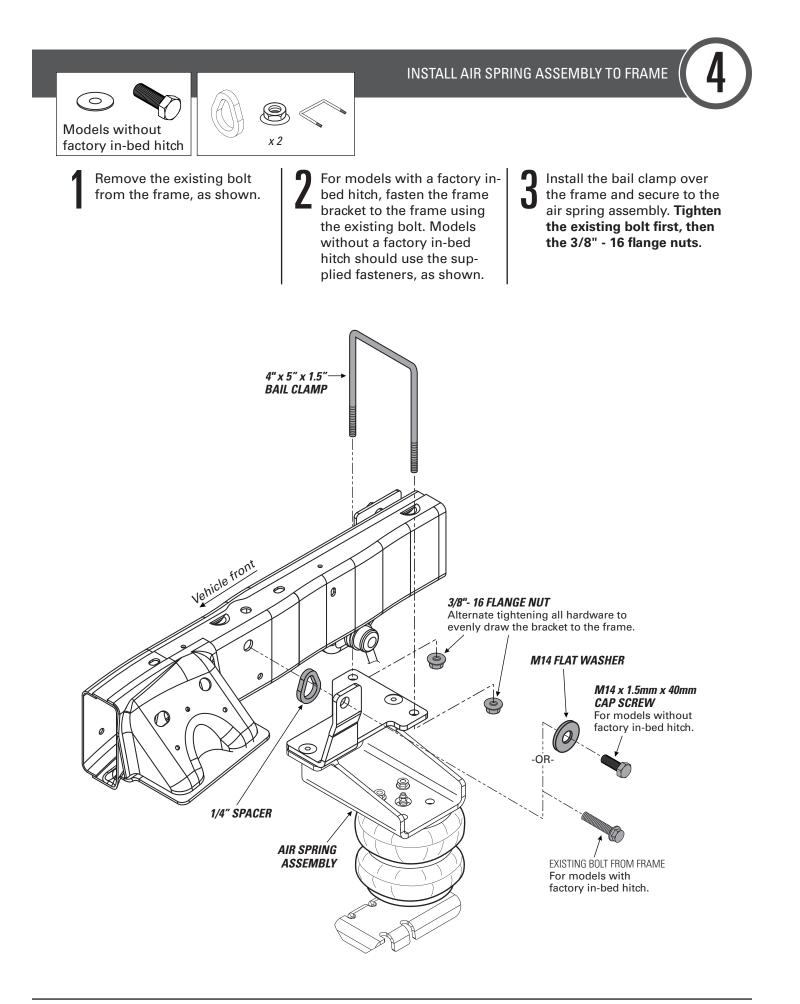


START THE INSTALLATION ON THE LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD.

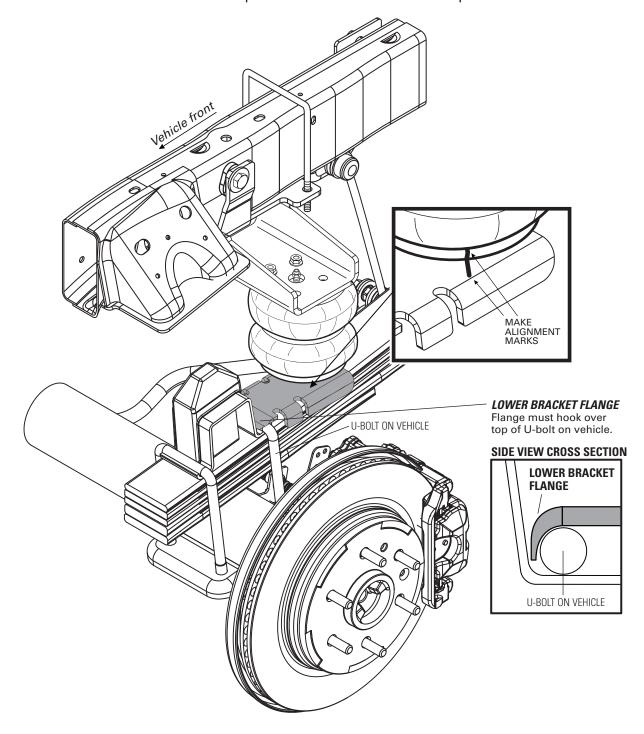


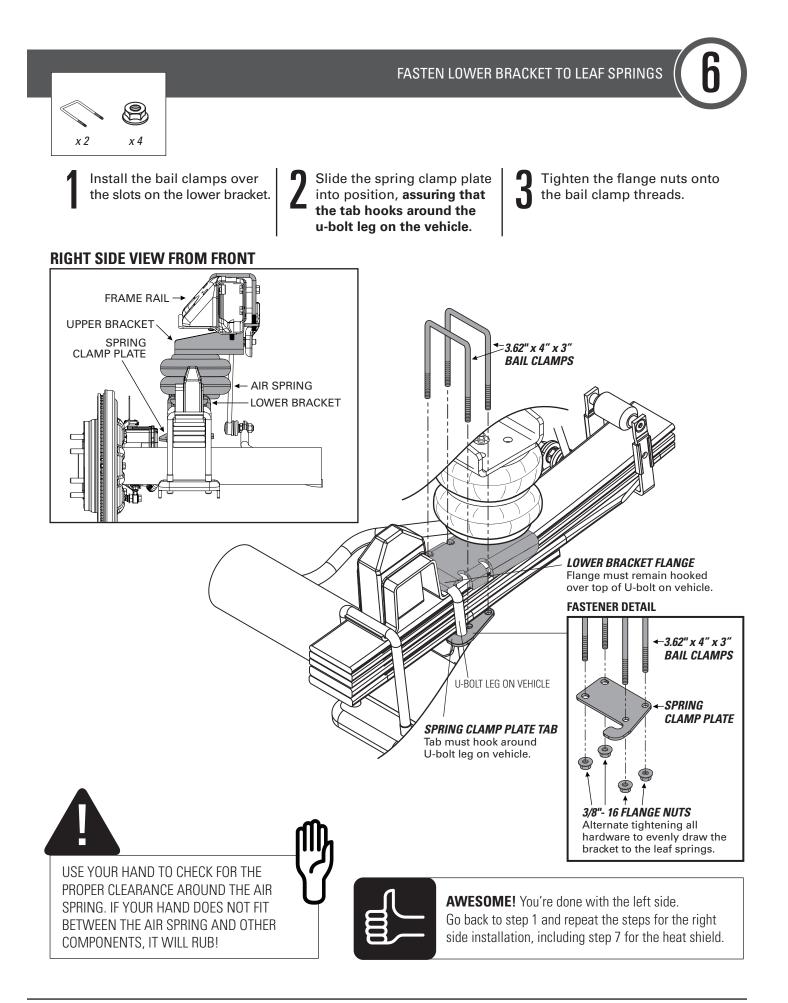


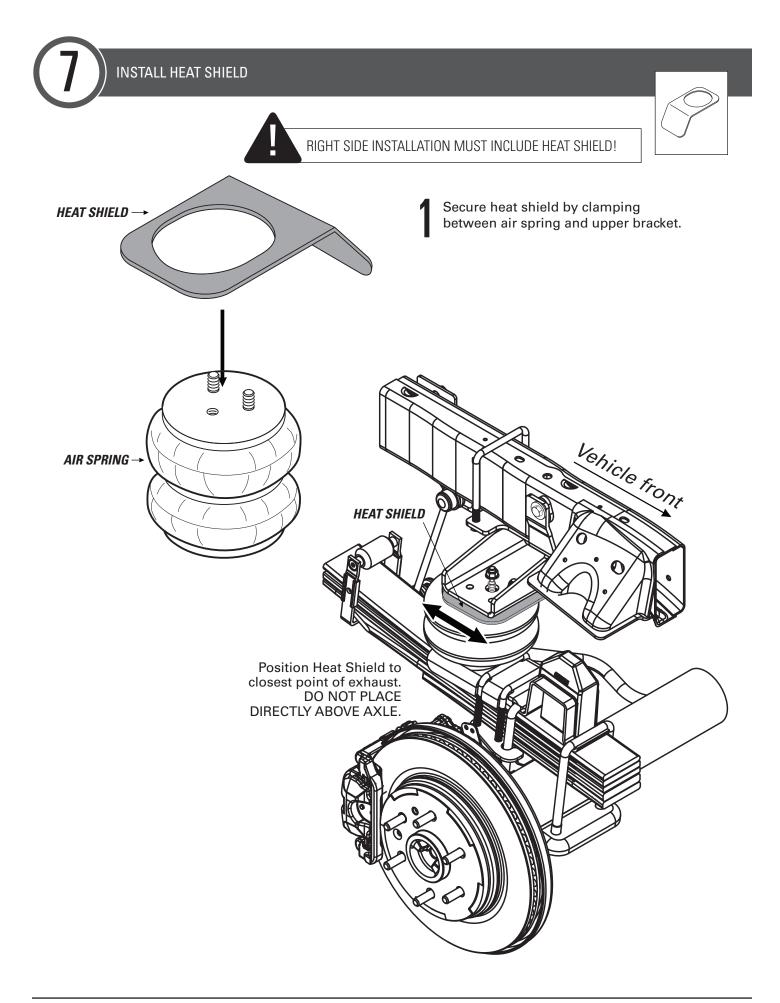
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Dry fit the assembly by positioning the lower bracket so that the tapered flange hooks over the top of the u-bolt on the vehicle, as shown. Make alignment marks, as shown. Using alignment marks ensures that the air spring isn't twisted during final assembly. **3** Match alignment marks you made, then fully tighten the 3/8" - 16 x 3/4" flat head bolt on the bottom of the lower bracket.

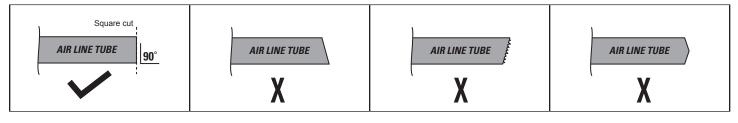






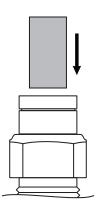
**INSTALL INFLATION VALVES** х2 x 4 x 2 х2 IF USING THE OPTIONAL NO-DRILL INFLATION VALVE BRACKET, CHOOSE OPTION 1. IF DRILLING, CHOOSE OPTION 2. INFLATION VALVES MUST BE ACCESSIBLE BY AN AIR CHUCK. Secure the air inflation Install inflation valve Select a protected location to valve bracket to a proinstall the inflation valves, assembly as shown. tected, secure location. such as the bumper or the PROCEEDTO STEP 3. body of the vehicle. Drill two 5/16" holes for **AIR LINE TUBE** LARGE Inflation Valve install 5/16" - 16 FLAT WASHER NYLON TIES locations. 5/16" **INFLATION VALVE** 0 INFLATION EXAMPLE **VALVE NUT INFLATION** Vehicle body, VALVES bumper or VÁLVE CAP Inflation valve inflation valve BUMPER install locations. bracket. CUT THE AIR LINE TUBE INTO TWO EQUAL LENGTHS Match air line tube ends. Find center of air line tube, make a square cut with tube **AIR LINE TUBE** cutter or sharp utility knife. DON'1 Fold or kink the air line tube. Make sure the cut is as square as possible. Cut the air line tube at an angle. Use a tube cutter or sharp utility knife. Use pliers, scissors, snips, saws, or side cutters.

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

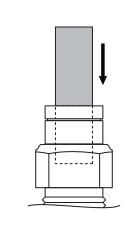




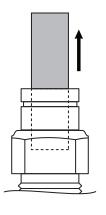
Insert end of air line tube into air fitting.



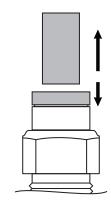
Push air line tube into air fitting as far as possible.



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.

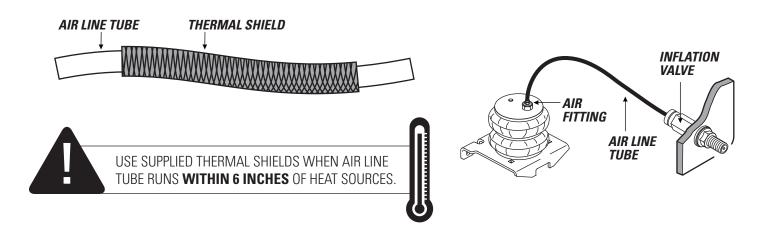
x 5	
x 2	



Select routes protected from heat, debris, and sharp edges. Use thermal 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.



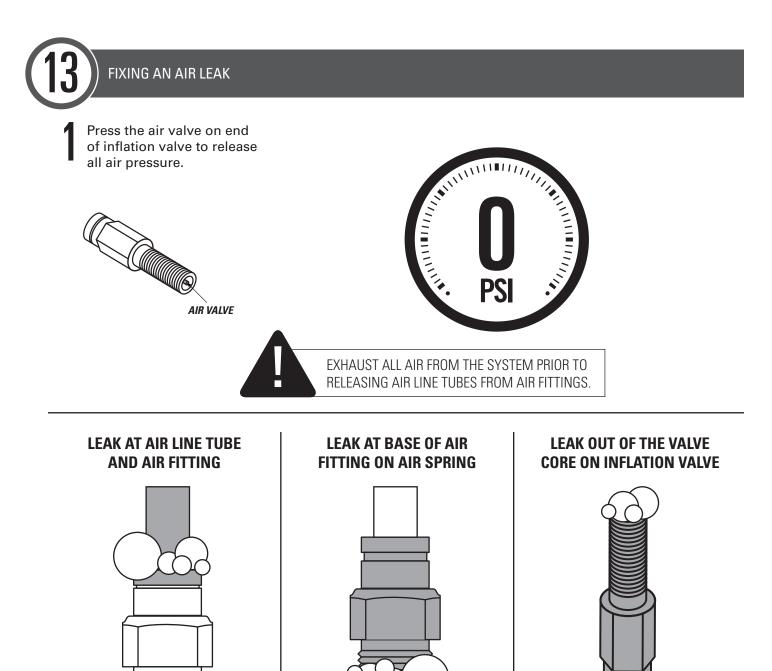
CHECKING THE AIR SYSTEM Place an air chuck onto the Spray fittings with inflation valve and fill the soap and water system to 70 PSI. mixture. -----WATER SOAP AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING. Observe bubbles. Source **SOAP BUBBLES SMALL SOAP BUBBLES THAT EXPAND** THAT 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.

RA

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.



#### SAFELY RETURN VEHICLE TO OPERATIVE STATE

If you removed any wheels during installation, install the wheels and torgue 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**

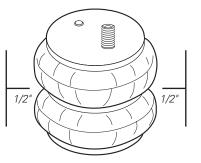
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

#### 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 7" - 8" 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<sup>™</sup> equipped! Show it off with the supplied decal!

7" - 8"

### **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.



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