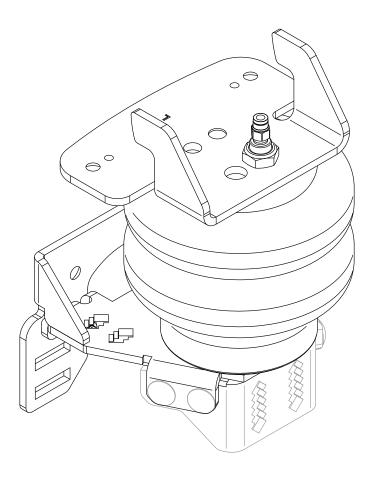
Firestone AIRIDE

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INSTALLATION INSTRUCTIONS



2716

! 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. 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:



MINIMUM PRESSURE



MAXIMUM PRESSURE (LOADED)

PARTS

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

MAIN KIT CONTENTS

PT # 8397	x 2	AIR SPRING	PT # 5949	x 2	LOWER FRAME BRACKET	PT # 5950	e ve	x 2	THREAD PLATE
PT # 5881	x 1	UPPER LEFT BRACKET	PT # 5952	x 2	LEAF SPRING BRACKET	PT # 1004	\bigcirc	x 1	HEAT SHIELD
PT # 5880	x 1	UPPER RIGHT BRACKET	PT # 5957	x 2	SUPPORT BRACKET	PT # 9153	Q	x 1	AIR LINE TUBE (22 FEET)
PT # 5958	x 2	LOWER BRACKET	PT # 5336	x 2	AIR SPRING SPACER	PT # 5946		x 8	UNIVERSAL AXLE BRACKET
PT # 5959	x 2	SHORT SUPPORT BRACKET	PT # 0045	x 2	PROTECTOR				



A21-760-2716 HARDWARE PACK

PT # 3067	x 26 3/8" - 16 FLANGE LOCK NUT	PT # 3514	0	x 6	<i>3/8" - 16 x 1" FLAT HEAD CAP SCREW</i>	PT # 3032	INFLATION VALVE x 2 AND VALVE CAP ASSEMBLY
PT # 3033	○ x 4 5/16" FLAT WASHER	PT # 3430		х 2	<i>3/8" - 16 x 2" FLAT HEAD CAP SCREW</i>	PT # 3055	x 2 AIR FITTING
PT # 0899	x 2 THERMAL SLEEVE	PT # 3481		Х2	<i>3/8" - 16 x 3" CARRIAGE BOLT</i>	PT # 3502	x 8 3/8" - 16 x 6" CARRIAGE BOLT
PT # 3020	() x 4 3/8" - 16 X 8" CARRIAGE BOLT	PT # 3332	0	x 2	5/8" - 18 NYLON JAM NUT	PT # 9168	x 10 BLACK NYLON TIE
PT #9488	x 2 LARGE NYLON TIE	PT # 9483	0	x 1	NO-DRILL INFLATION VALVE BRACKET	PT # 3072	x 8 3/8" - 16 x 1" CARRIAGE BOLT
PT # 3515	3/8" - 16 x 2.5" (6) x 4 FLAT HEAD CAP SCREW						

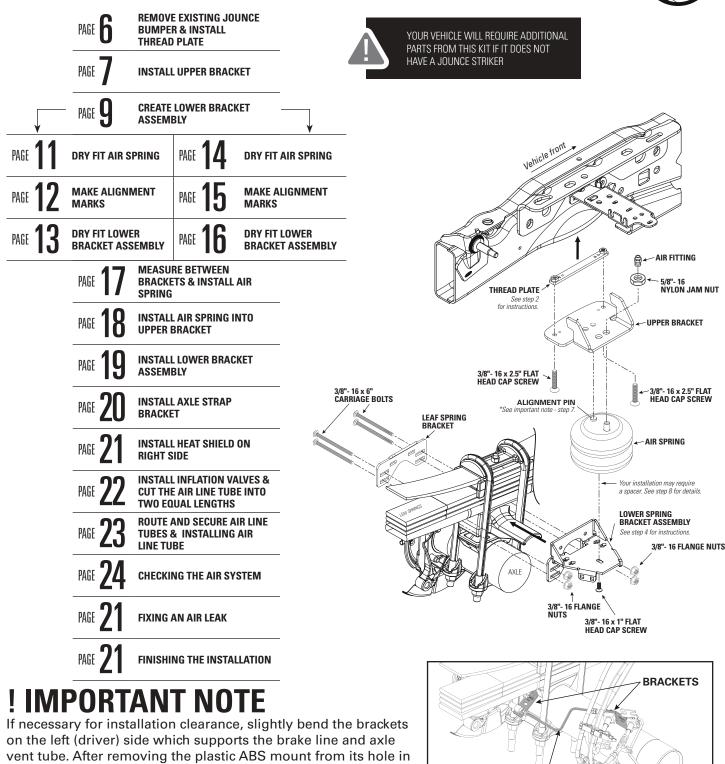
! NOTICE

This kit includes components that allow multiple build configurations.

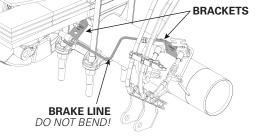
Not every part will be used for each configuration.

CONTENTS AND OVERVIEW

JOUNCE STRIKER CONFIGURATION SHOWN – CHECK YOUR VEHICLE FIRST!



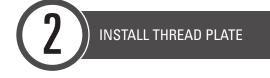
the axle bracket, use an adjustable wrench or similar tool to bend the bracket approximately 1/8" (3mm). Replace the ABS mount when proper clearance is obtained.



REMOVE EXISTING JOUNCE BUMPER



Remove the existing jounce bumper and fastener clips from the vehicle frame.



NYLON TIE 🦴

x2

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Attach nylon ties to the thread plate, as shown. These act as installation guides for the thread plate and upper bracket. They will be removed in a later step.

THREAD PLATE

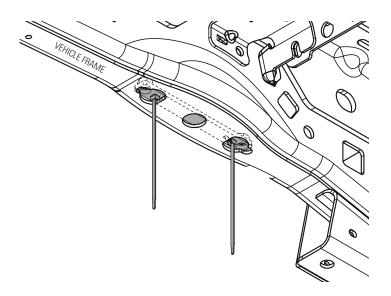
NYLON TIE

Insert the thread plate into the vehicle frame, as shown. Use nylon ties as handles to position thread plate.

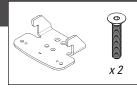
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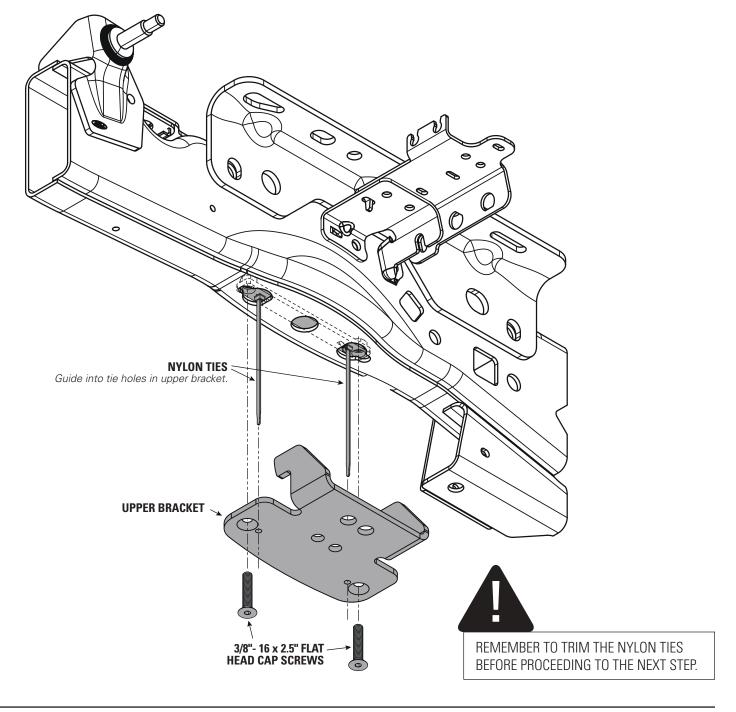
INSTALL UPPER BRACKET



Guide the two nylon ties into the inner holes in the upper bracket.

While holding the thread plate in place with the nylon ties, hand-thread the fasteners in place.

Once the fasteners have begun engaging the threads, use snips or a knife to trim the nylon ties flush with the frame. Fully-tighten the fasteners.

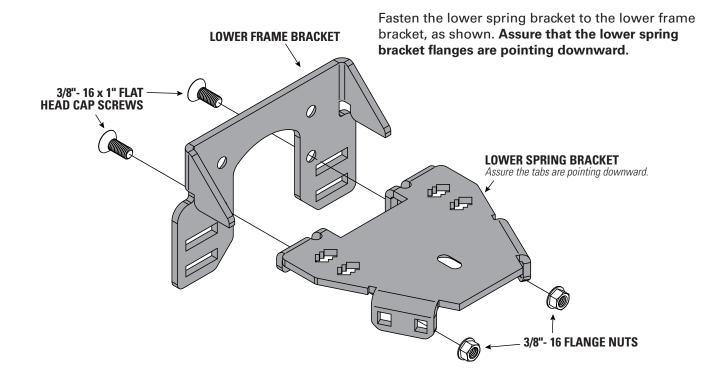


! WARNING

The lower bracket <u>must</u> be supported by the factory jounce striker (if present) or by the installation of the appropriate support bracket.

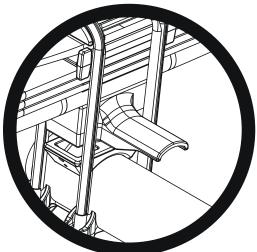
Failure to support the lower bracket will cause mounting system failure and void all warranty.





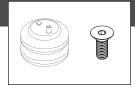
! NOTICE

If your truck has a jounce striker plate as shown below, continue to the next step.



If it does not, skip to step 5 on page 14.

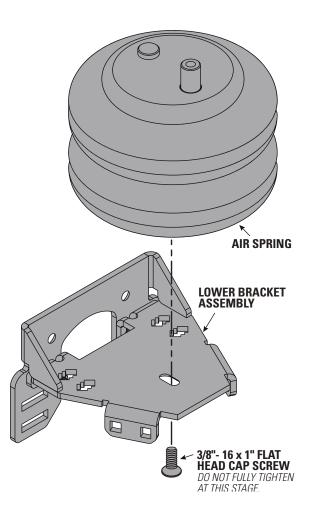
DRY FIT AIR SPRING



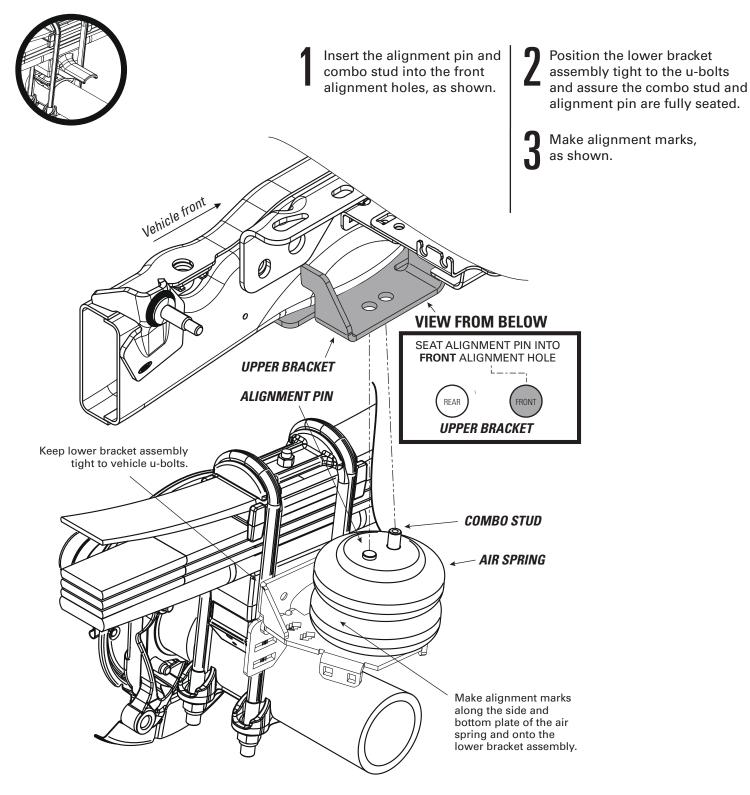
Jounce striker plate version only



Fasten the air spring to the lower spring bracket. **DO NOT FULLY TIGHTEN AT THIS STAGE**.



Jounce striker plate version only



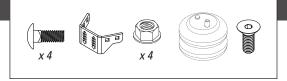
DRY FIT LOWER BRACKET ASSEMBLY Jounce striker plate version only x 4 LEAF SPRING BRACKET FLANGE 3/8"- 16 x 6" Fit between vehicle leaf spring u-bolts, if possible. **CARRIAGE BOLTS** LEAF SPRING BRACKET LOWER SPRING LEAFSPRINGS **BRACKET ASSEMBLY** æ 3/8"- 16 FLANGE NUTS DO NOT FULLY TIGHTEN AXLE AT THIS STAGE.

Remove air spring and fastener from lower bracket assembly. Install the lower bracket assembly so that it is tight against the vehicle jounce tongue and leaf spring stack. **Do not fully tighten at this stage**. You will remove the assembly after the next step.

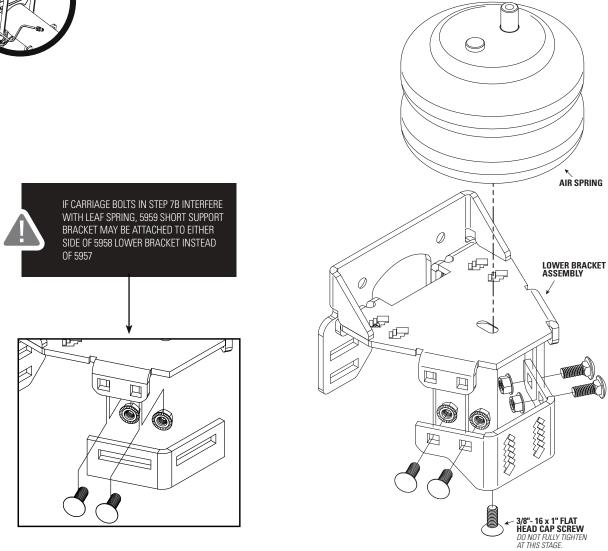
Continue to bracket measuring instructions step 8 on page 17.

DRY FIT AIR SPRING

Support bracket version only

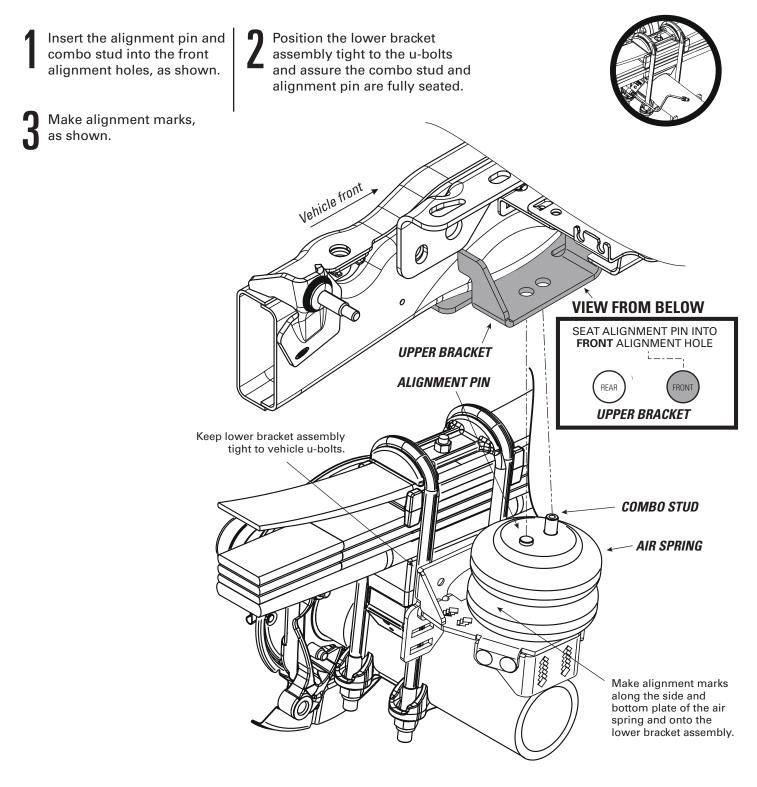


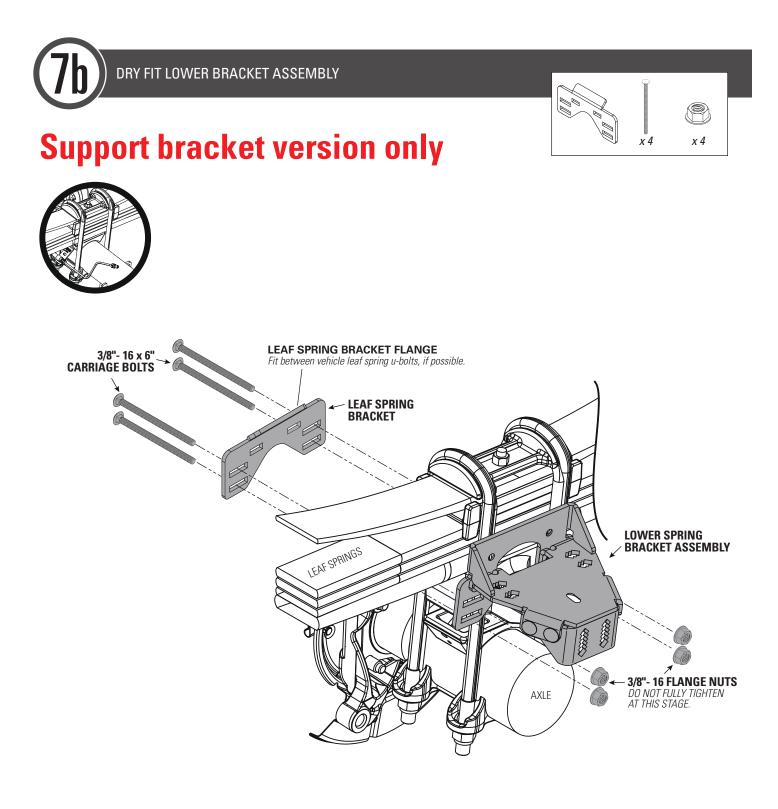




Fasten the air spring to the lower spring bracket. **DO NOT FULLY TIGHTEN AT THIS STAGE.**

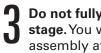
Support bracket version only



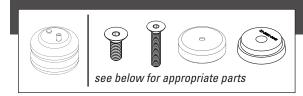


Remove air spring and fastener from lower bracket assembly.

Install the lower bracket assembly so that it is tight against the vehicle jounce tongue and leaf spring stack.

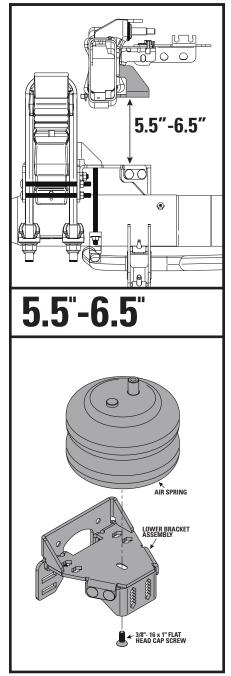


Do not fully tighten at this stage. You will remove the assembly after the next step.

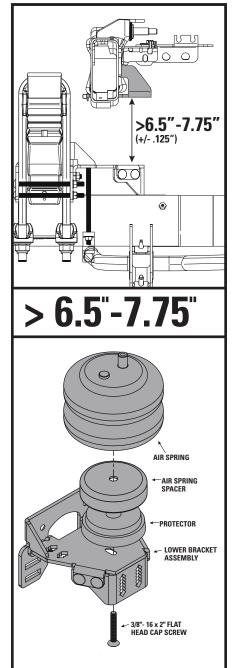


With vehicle unloaded on level ground and supporting its own weight, measure the distance between the bottom of the upper bracket and the top of the lower bracket. Use your measurement to follow the appropriate steps below.

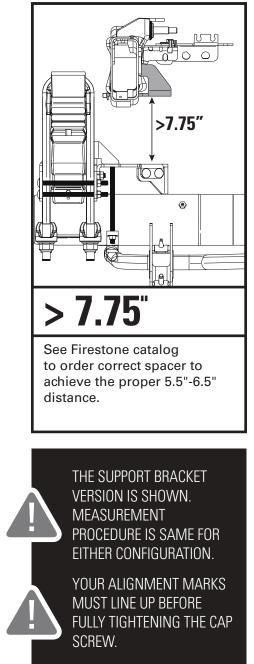
STANDARD INSTALLATION

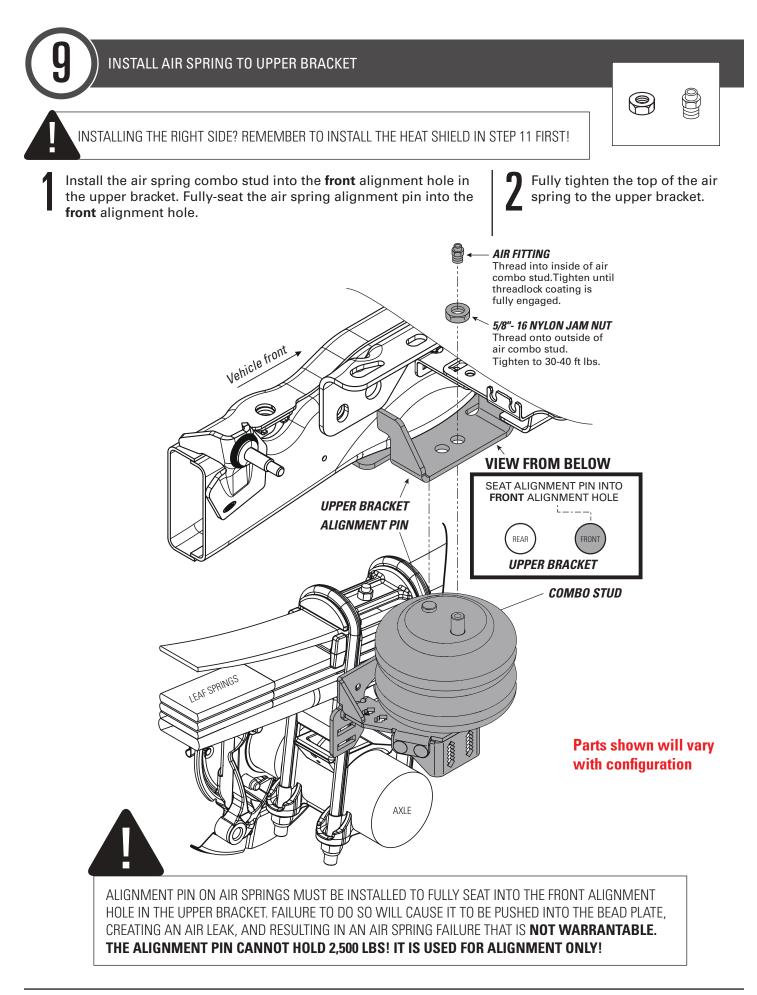


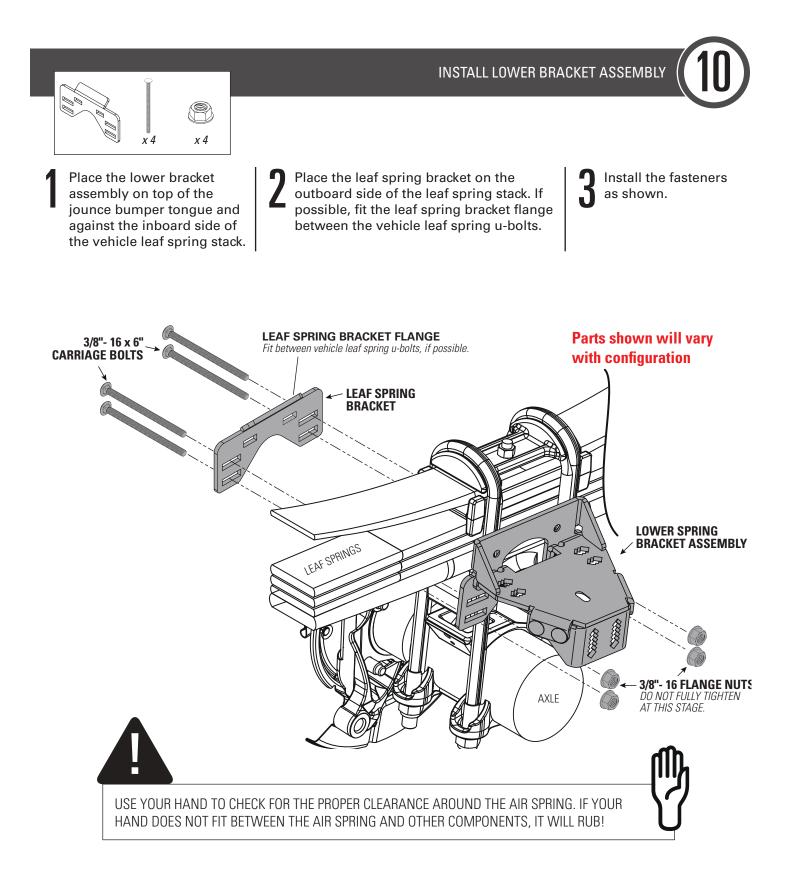
INSTALLATION WITH SPACER



LARGER SPACER REQUIRED









AWESOME! You're done with the left side. The right side is the same, with the addition of the heat shield. See step 8, then complete the steps for the right side installation.

INSTALL AXLE STRAP BRACKET

Link two pairs of universal axle brackets together to form an "M" as shown below.

Insert large carriage bolt into the hole of the lower bracket closest to the leaf spring and axle tube with the bolt as upright as possible.

Loosely attach one pair of universal axle brackets across the bottom with a small carriage bolt with a flange lock nut.

Connect both pairs of universal axle brackets across the bottom with a small carriage bolt and a flange lock nut.

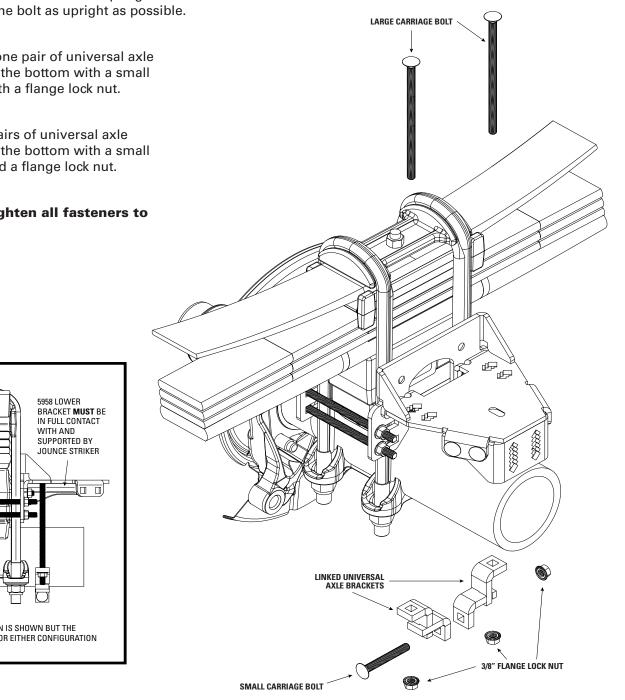
Completely tighten all fasteners to 23 ft-lb.

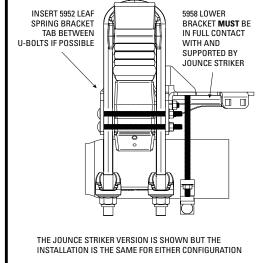


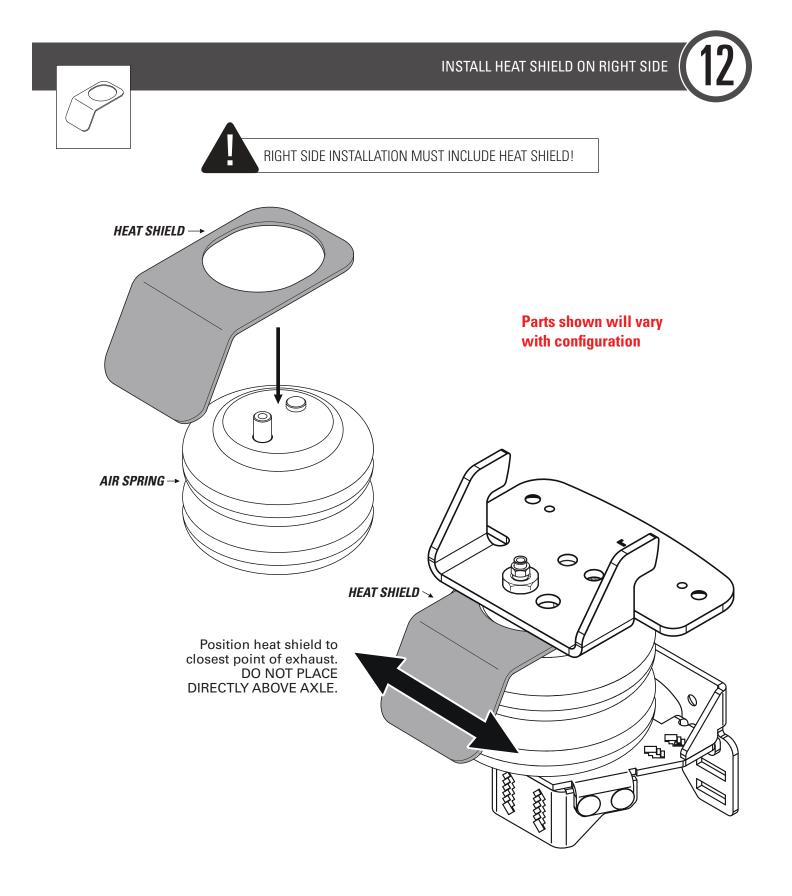
THE SUPPORT BRACKET VERSION IS SHOWN. THE INSTALLATION IS THE SAME FOR EITHER CONFIGURATION.

x 2

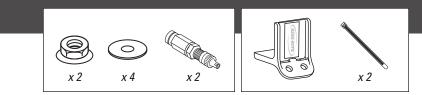
x 2



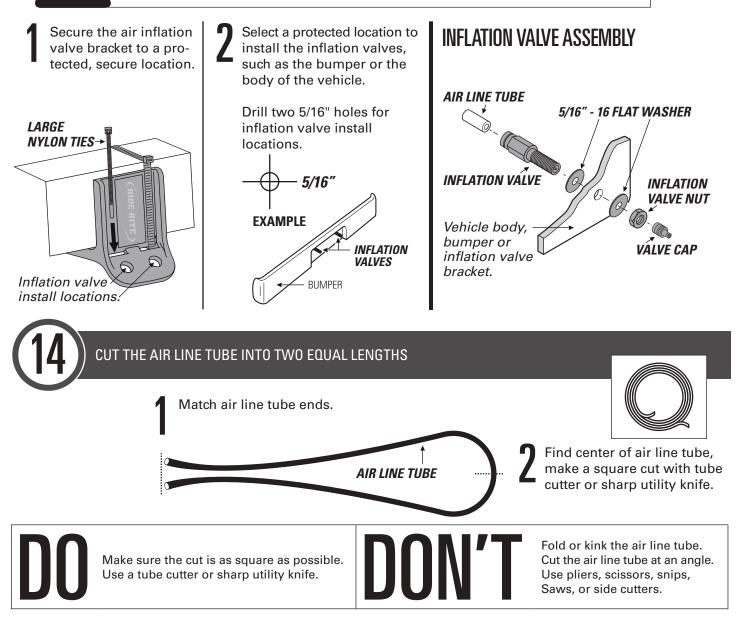




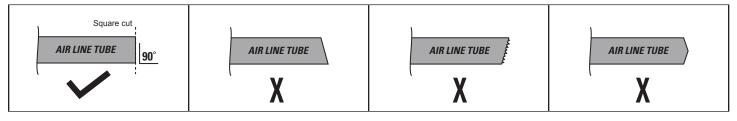
INSTALL INFLATION VALVES

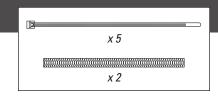


IF USING THE OPTIONAL NO-DRILL INFLATION VALVE BRACKET, CHOOSE OPTION 1. IF DRILLING, CHOOSE OPTION 2. **INFLATION VALVES MUST BE ACCESSIBLE BY AN AIR CHUCK.**



PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE





ROUTE AND SECURE AIR LINE TUBES



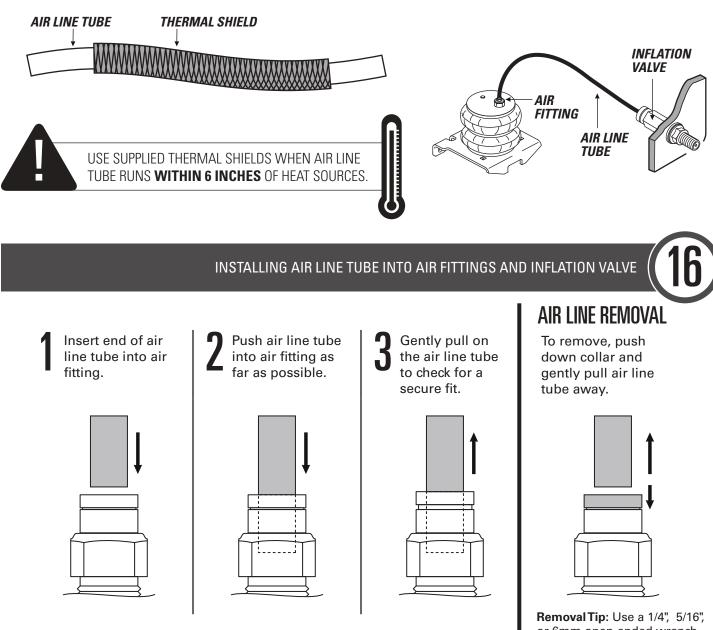
Air line tube routes will vary, depending on your truck, and requires you to choose the best path from the air springs to the inflation valves. Use the instructions below to help you choose.



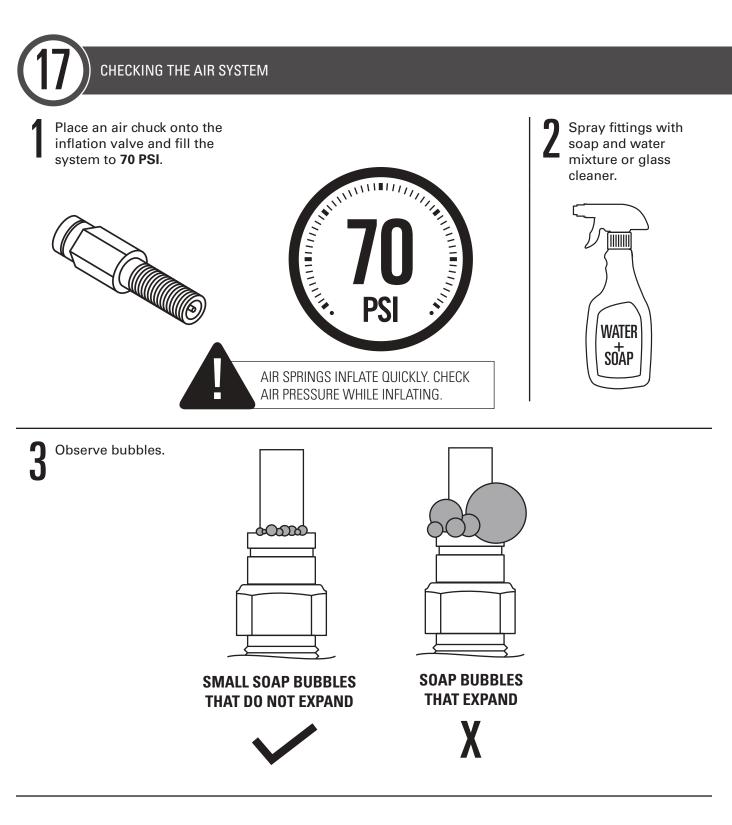
Select routes protected from heat, Debris, and sharp edges. Use thermal shields near heat sources. Use nylon ties to secure the air line tube.



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.



or 6mm open-ended wrench to push the collar down.



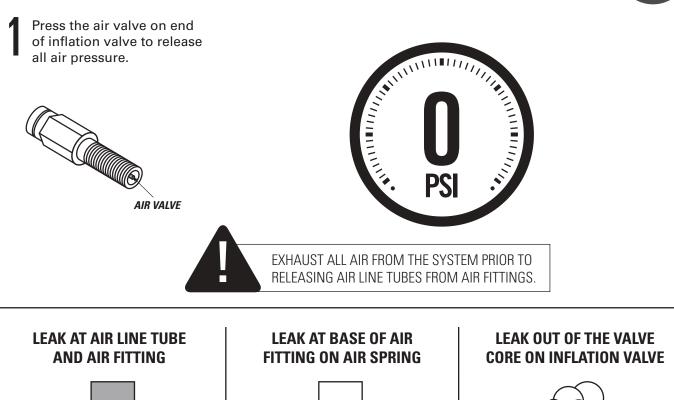
NO LEAKS?

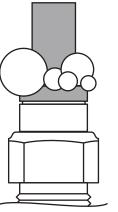
Congratulations! Continue to step 18 to finish installation. Review the Operating Instructions.

LEAK?

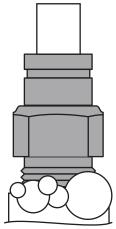
Bummer. Continue to step 17 to fix the leak.

FIXING AN AIR LEAK

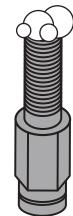




Release air line tube (see page 15). Review proper cuts and procedures in step 13. Repeat steps 15 and 16.



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 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

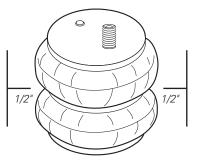
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

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.



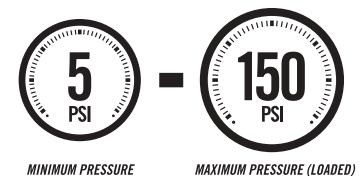
USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



! 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.



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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?
- \Box Put your paper work in your glove compartment for future reference.
- □You've been bagged...and now your suspension is Airide[™] equipped!

NEED INSTALLATION HELP? 1-800-888-0650

Select Option 1 for Airide; Select Option 1 for Technical Support.

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.



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