

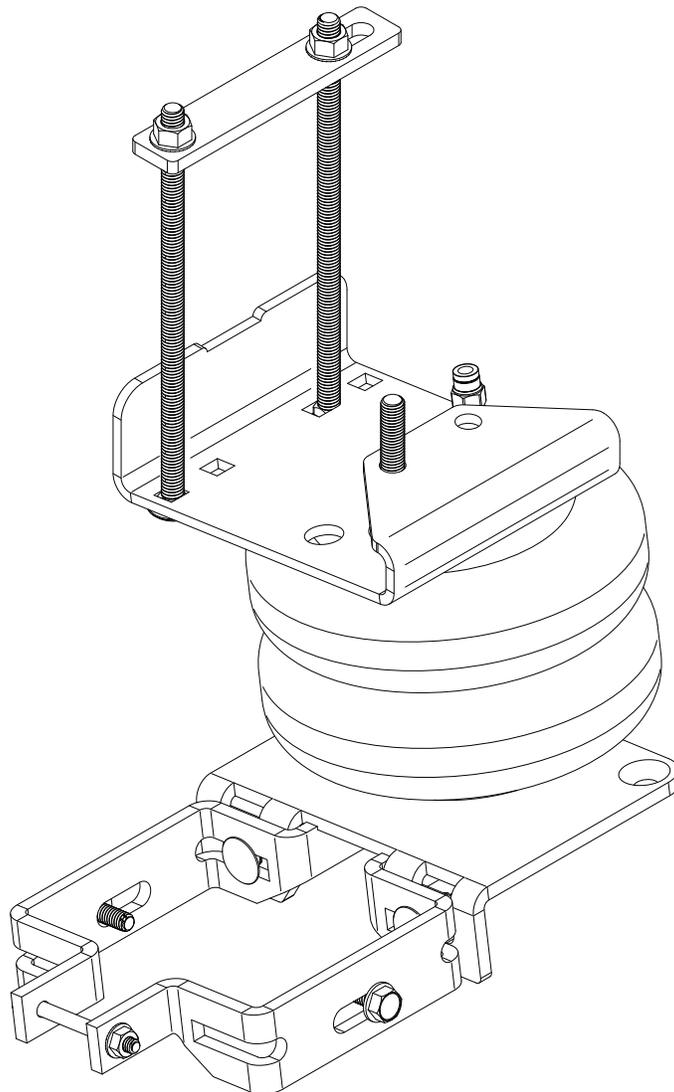


2627

AIRIDE

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INSTALLATION INSTRUCTIONS



! 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 1300 lbs. per pair of air springs.

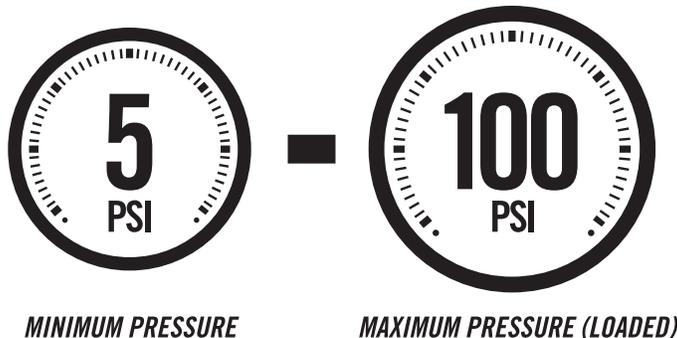
APPROPRIATE AIR PRESSURE

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).

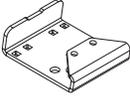
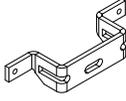
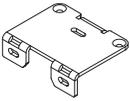
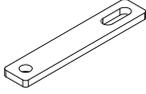
ONCE INSTALLED SUCCESSFULLY, FOLLOW THESE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS:



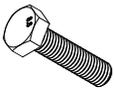
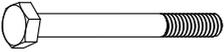
PARTS

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

MAIN KIT CONTENTS

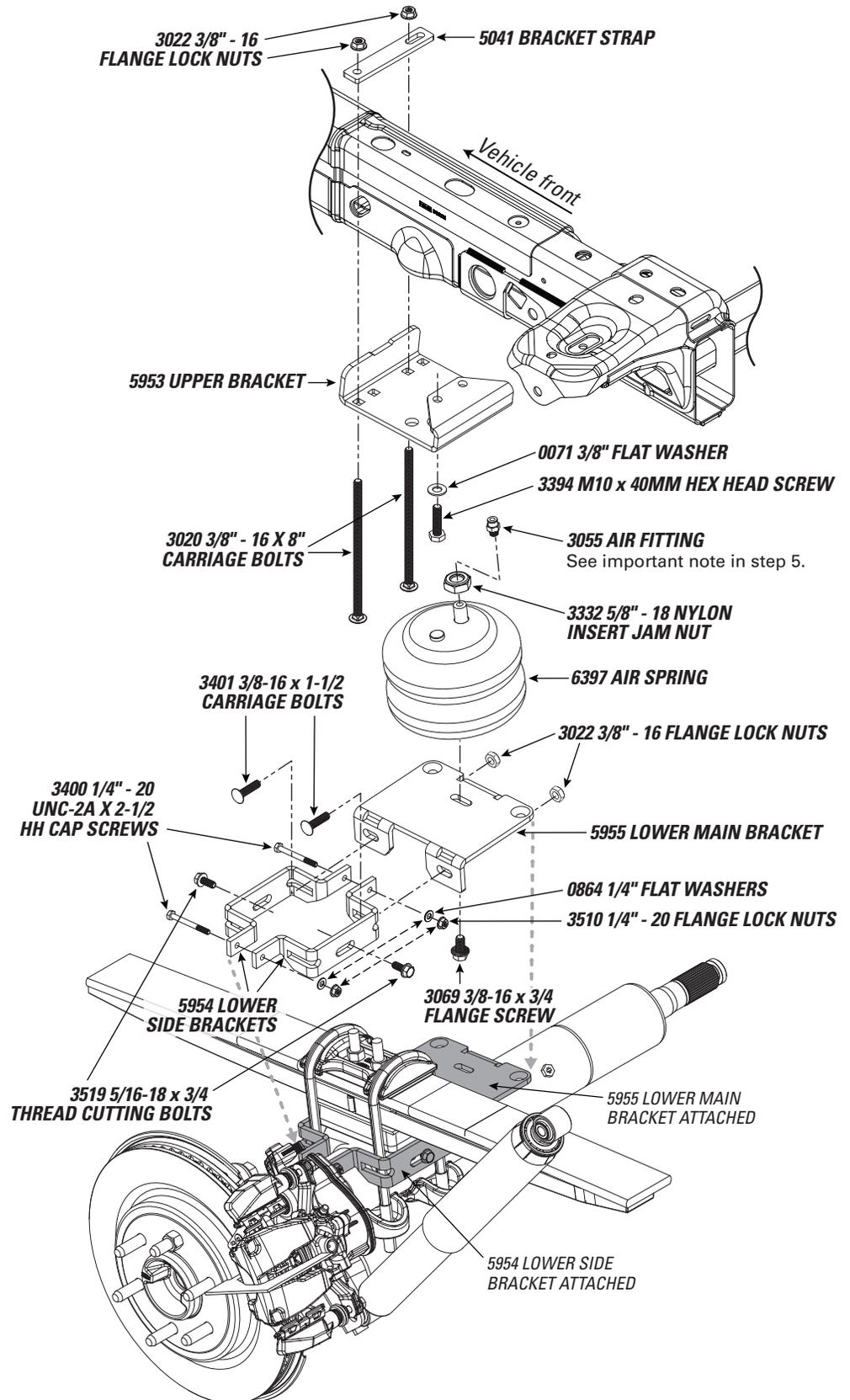
PT # 6397	 x2 AIR SPRING	PT # 5953	 x2 UPPER BRACKET	PT # 5954	 x4 LOWER SIDE BRACKET
PT # 5955	 x2 LOWER MAIN BRACKET	PT # 5041	 x2 BRACKET STRAP	PT # 1004	 x1 HEAT SHIELD
PT # 9414	 x1 RED AIR LINE TUBE (18 FEET)				

A21-760-2627 HARDWARE PACK

PT # 3055	 x2 AIR FITTING	PT # 3394	 x6 M10 x 40MM HEX HEAD SCREW	PT # 3519	 x4 5/16-18 x 3/4 THREAD CUTTING BOLT
PT # 3020	 x4 3/8" - 16 x 8" CARRIAGE BOLT	PT # 3400	 x4 1/4" - 20 UNC-2A x 2-1/2 HH CAP SCREW	PT # 3401	 x4 3/8-16 x 1-1/2 CARRIAGE BOLT
PT # 3069	 x2 3/8-16 x 3/4 FLANGE SCREW	PT # 3033	 x4 5/16" FLAT WASHER	PT # 0071	 x2 3/8" FLAT WASHER
PT # 0864	 x4 1/4" FLAT WASHER	PT # 3510	 x4 1/4" - 20 FLANGE LOCK NUT	PT # 3022	 x8 3/8" - 16 FLANGE LOCK NUT
PT # 3332	 x2 5/8" - 18 NYLON INSERT JAM NUT	PT # 3032	 x2 INFLATION VALVE AND VALVE CAP ASSEMBLY	PT # 9036	 x6 RED NYLON TIE
PT # 0899	 x2 THERMAL SLEEVE	PT # 9483	 x1 NO-DRILL INFLATION VALVE BRACKET	PT # 9488	 x2 LARGE NYLON TIE

CONTENTS AND OVERVIEW

PAGE 4	REMOVE FACTORY JOUNCE BUMPER & ATTACH UPPER BRACKET
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PAGE 6	LOOSELY ATTACH LOWER BRACKET TO AIR SPRING BOTTOM & INSTALL AIR FITTING
PAGE 7	ORIENT SPRING TO LOWER BRACKET
PAGE 8	INSTALL SPRING
PAGE 9	INSTALL THE HEAT SHIELD
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



REMOVE FACTORY JOUNCE BUMPER

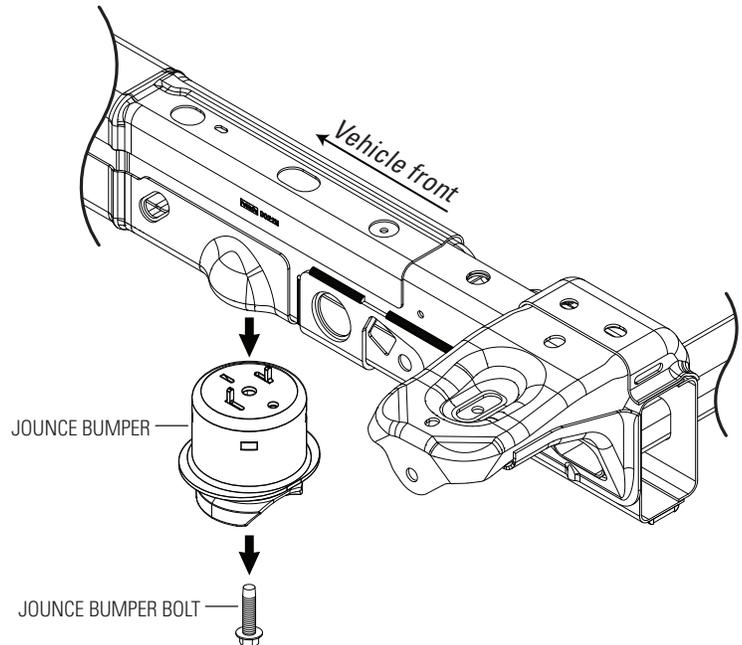
1



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

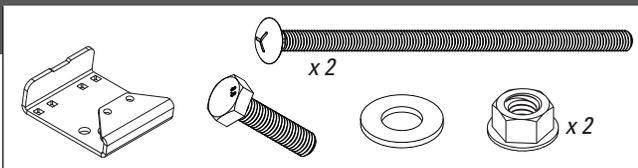
1 Insert a 13mm socket with extension into hole through bottom of jounce bumper.

2 Remove the attaching bolt and jounce bumper.



ATTACH UPPER BRACKET

2

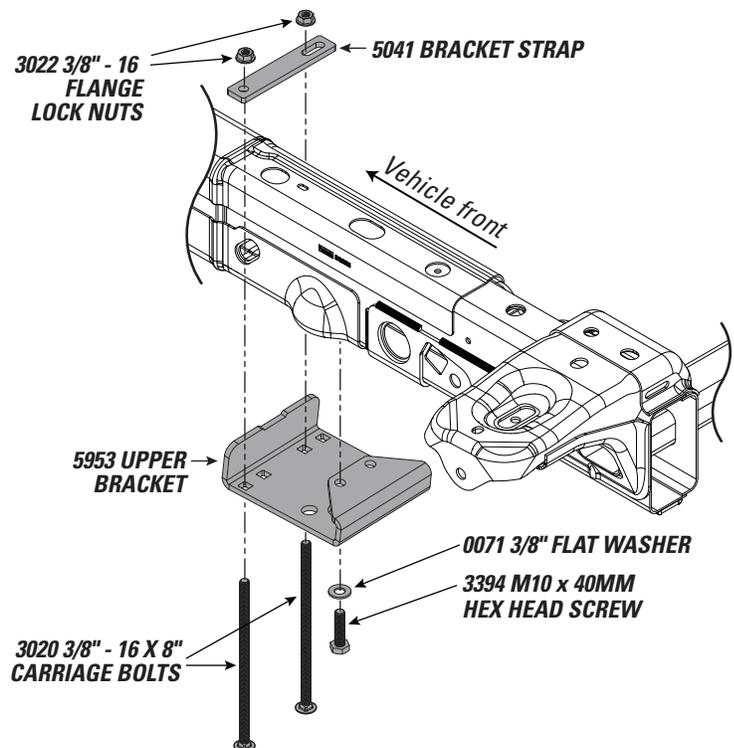


1 Use 0071 washer and 3394 bolt to attach 5953 upper bracket finger-tight.

2 The tallest part of the bracket is at the front and the overhang is towards the center of the vehicle as shown.

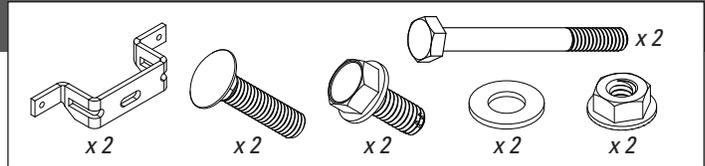
3 Use 5041 bracket strap, two 3020 carriage bolts, and two 3022 flange nuts to attach front end of bracket to frame rail as shown.

4 Tighten 3394 bolt first then tighten carriage bolts to 23 ft lbs. while ensuring bracket stays flush with and aligned to frame.



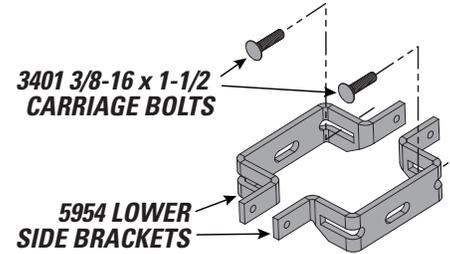
3

ATTACH LOWER SIDE BRACKETS



1 Remove the brake line tab bolts using 10mm socket.

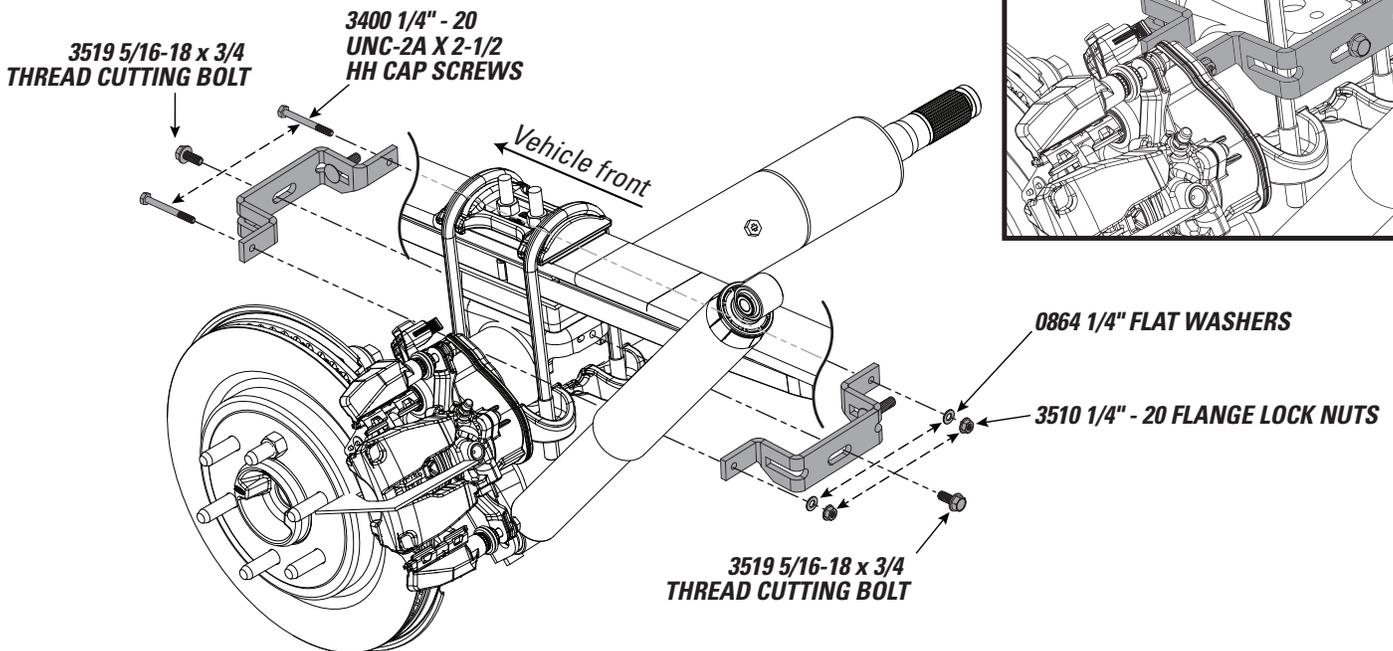
2 Insert 3401 carriage bolts into slots in side brackets (threads facing outward).



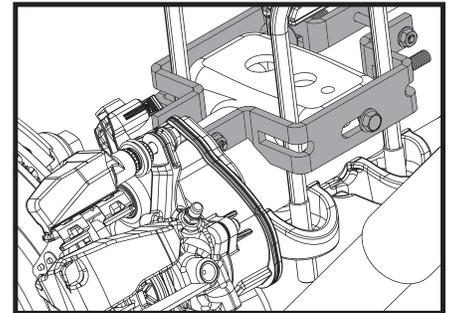
3 Attach lower side brackets to leaf spring perches using 3394 screws.

4 Fasten brackets together with a 3400 bolt, 0864 washer, and 3510 flange nut on each end.

5 Tighten assembly to 14 ft lbs.



LOWER SIDE BRACKETS MOUNTED

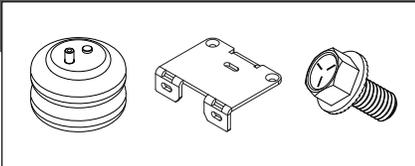


6 If ABS cable interferes, remove retaining clips and position cable out of the way and secure with a nylon tie.

7 The brake line bracket where the ABS cable is mounted may also interfere. If so, disconnect the cable and bend or trim the bracket as needed.

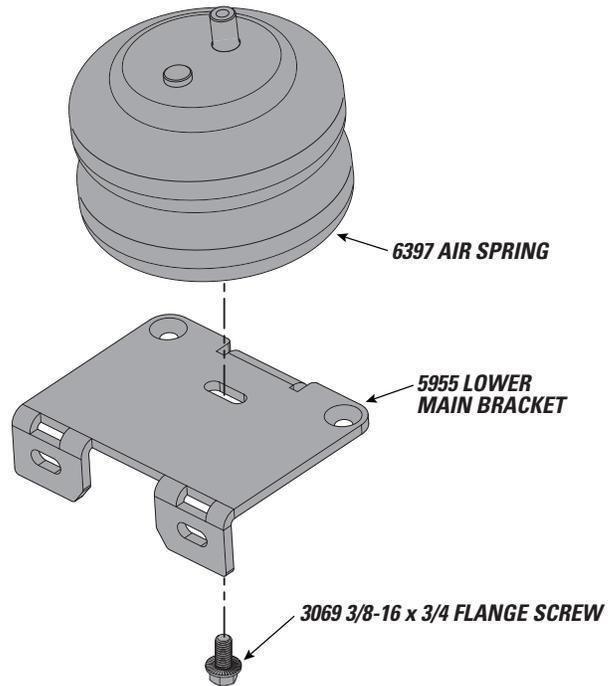
LOOSELY ATTACH LOWER BRACKET TO AIR SPRING BOTTOM

4



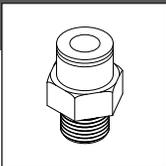
1 Insert 3069 bolt through lower bracket and into threads of spring.

2 DO NOT TIGHTEN – you will need to be able to rotate spring for proper orientation.



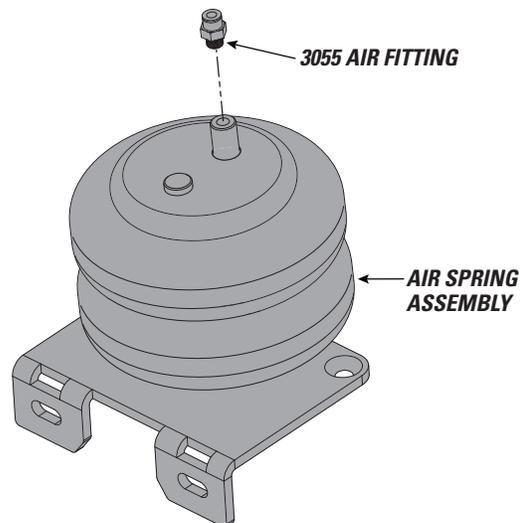
INSTALL AIR FITTING

5



1 Thread 3055 air fitting into air spring combo stud.

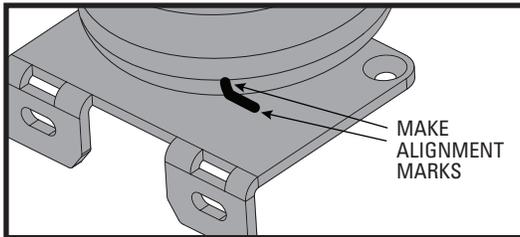
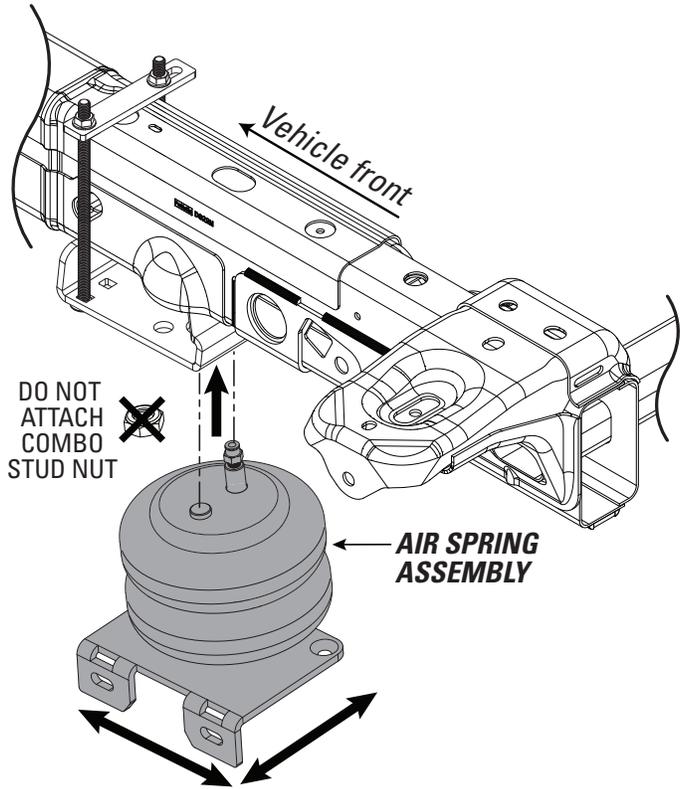
2 Securely tighten air fitting.



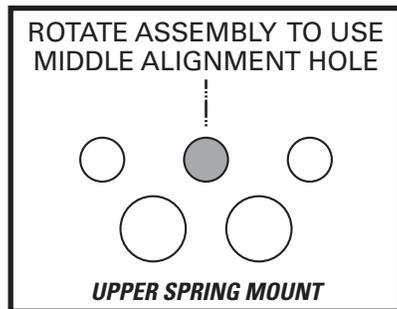
6

ORIENT SPRING TO LOWER BRACKET

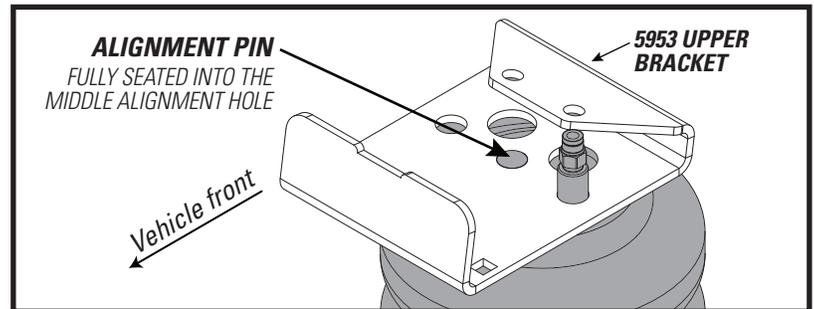
- 1 Temporarily insert spring into upper bracket.
- 2 Do not attach combo stud nut at this time.
- 3 Slide and rotate bracket for best alignment.
- 4 Accurately mark this position on lower spring plate and lower bracket.



VIEW FROM BELOW



VIEW FROM ABOVE, CENTER OF FRAME

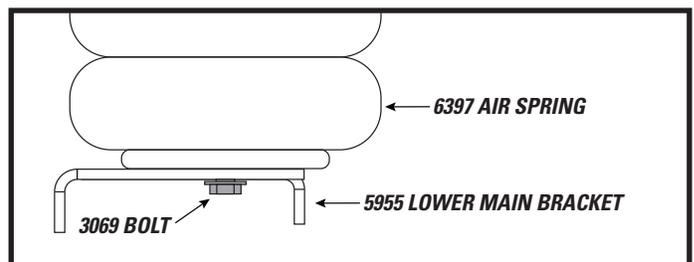


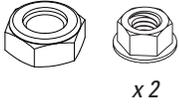
ALIGNMENT PIN ON AIR SPRINGS MUST BE INSTALLED TO FULLY SEAT INTO THE MIDDLE ALIGNMENT HOLE IN THE UPPER BRACKET. FAILURE TO DO SO WILL CAUSE IT TO BE PUSHED INTO THE BEAD PLATE, CREATING AN AIR LEAK, AND RESULTING IN AN AIR SPRING FAILURE THAT IS **NOT WARRANTABLE. THE ALIGNMENT PIN CANNOT HOLD 2,500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

- 5 Remove spring from upper bracket.

- 6 With marks aligned, secure lower bracket by tightening 3069 bolt.

SIDE VIEW





x 2

1 Insert spring into upper bracket.

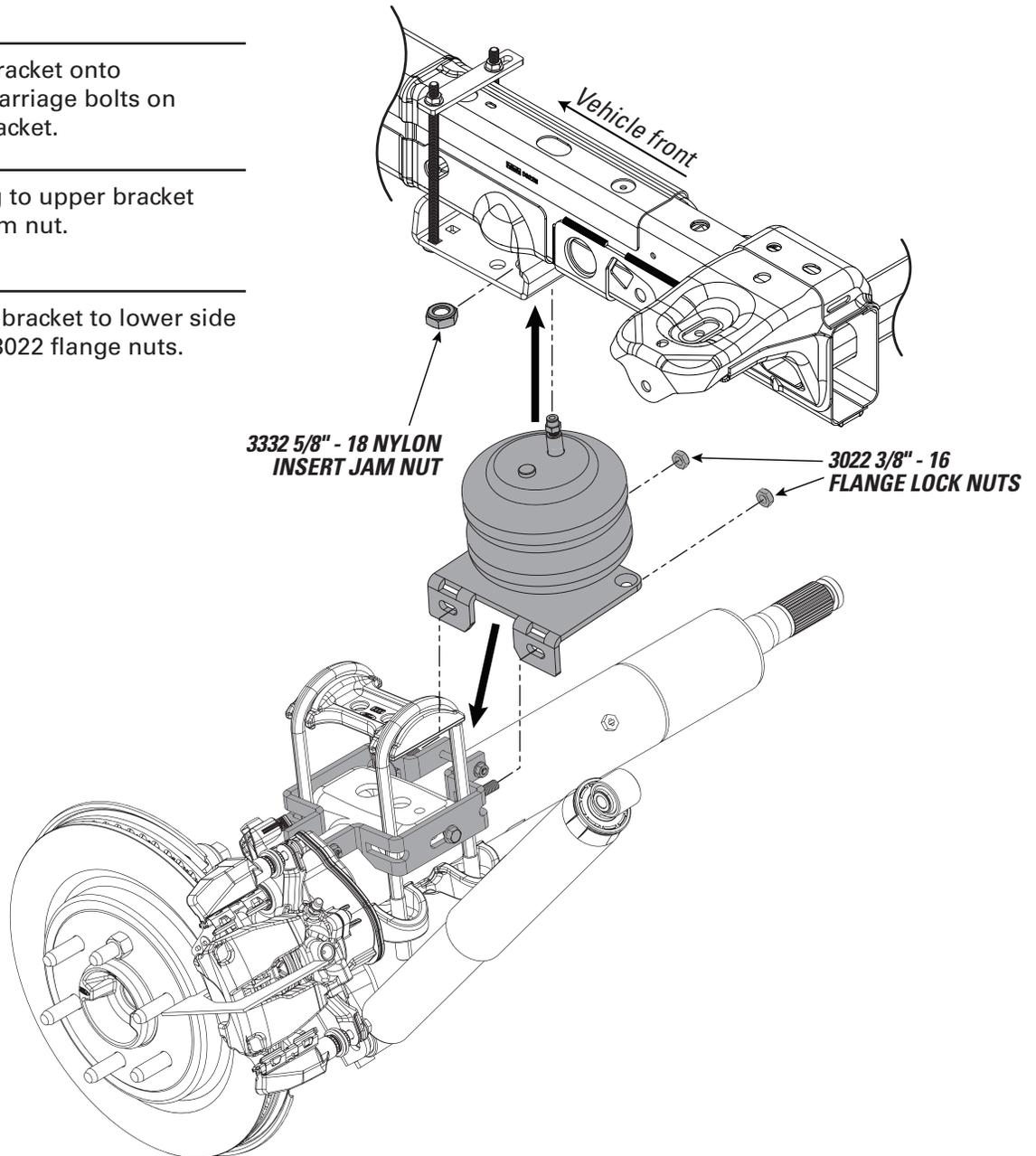
2 Slide lower bracket onto preinstalled carriage bolts on lower side bracket.

3 Secure spring to upper bracket using 3332 jam nut.

4 Secure lower bracket to lower side bracket with 3022 flange nuts.



INSTALLING THE RIGHT SIDE? REMEMBER TO INSTALL THE HEAT SHIELD IN STEP 8 FIRST!



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!



AWESOME! You're done with the left side. Go back to step 1 and repeat the steps for the right side installation, including step 7.

8

INSTALL THE HEAT SHIELD

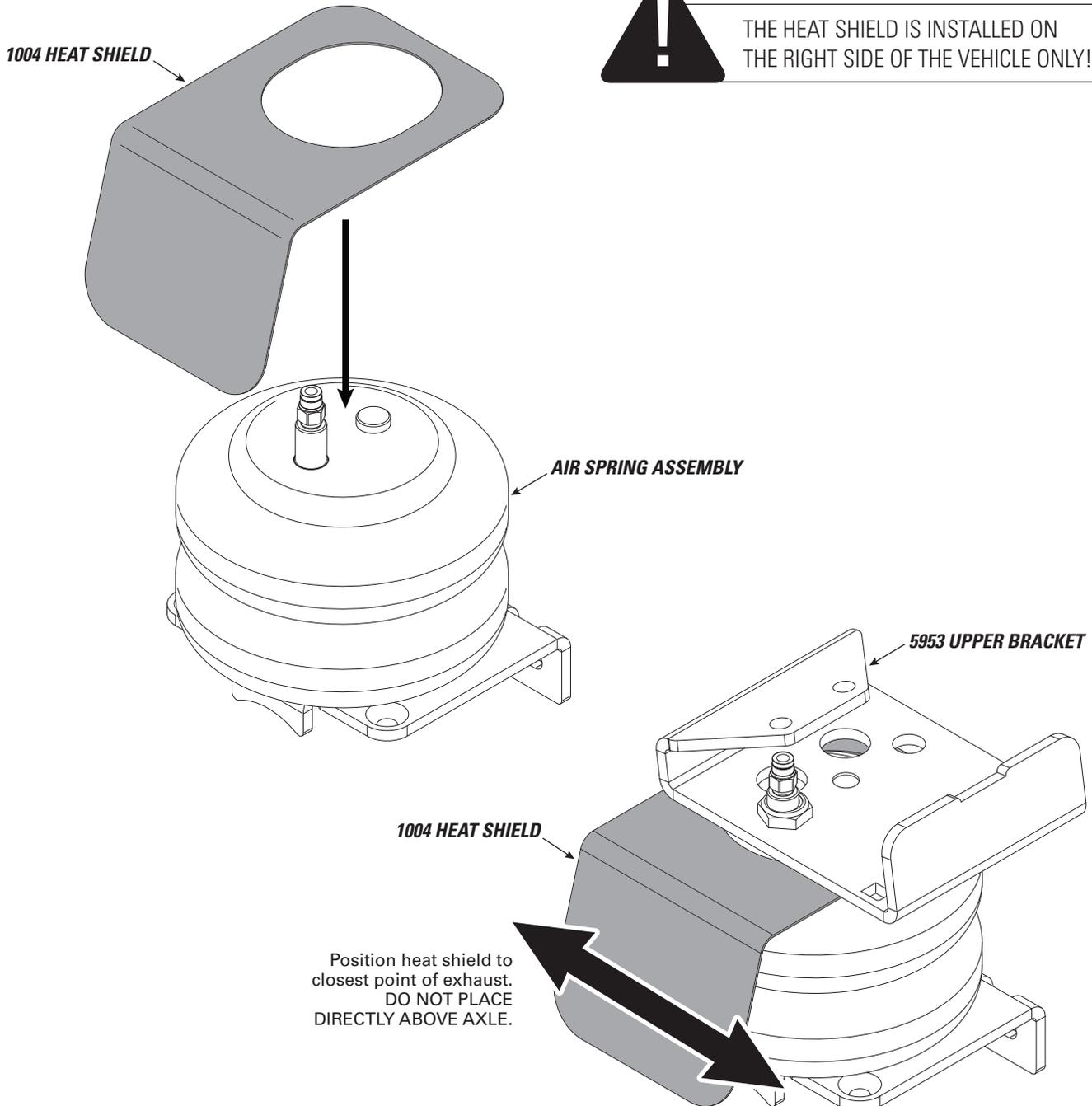


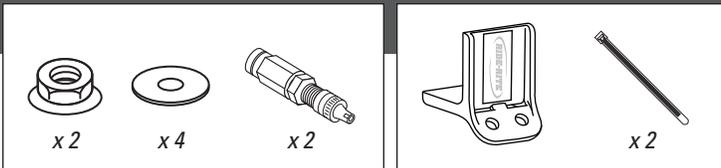
1 On the right side only, secure the heat shield by clamping it between the air spring and upper spring mount assembly.

2 Continue to step 6 to complete the right side installation.



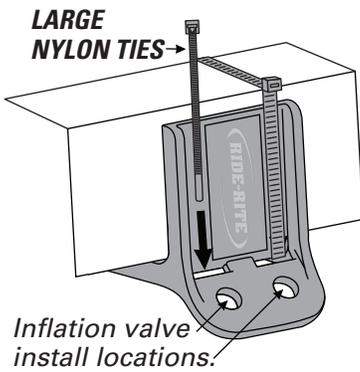
THE HEAT SHIELD IS INSTALLED ON THE RIGHT SIDE OF THE VEHICLE ONLY!





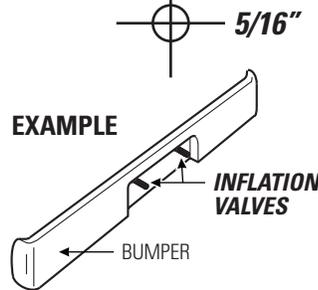
IF USING THE OPTIONAL NO-DRILL INFLATION VALVE BRACKET, CHOOSE OPTION 1. IF DRILLING, CHOOSE OPTION 2. **INFLATION VALVES MUST BE ACCESSIBLE BY AN AIR CHUCK.**

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

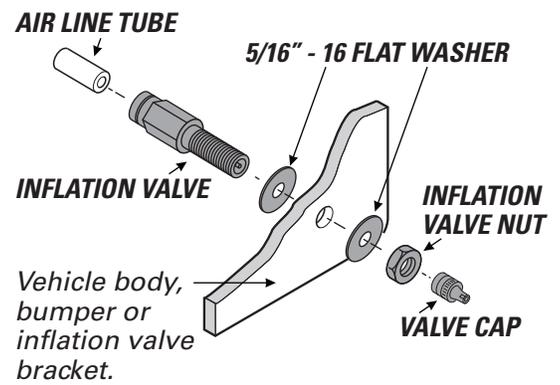


2 Select a protected location to install the inflation valves, such as the bumper or the body of the vehicle.

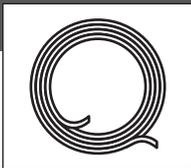
Drill two 5/16" holes for Inflation Valve install locations.



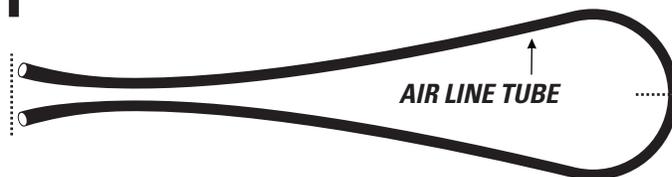
3 Install inflation valve assembly as shown.



CUT THE AIR LINE TUBE INTO TWO EQUAL LENGTHS



1 Match air line tube ends.



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

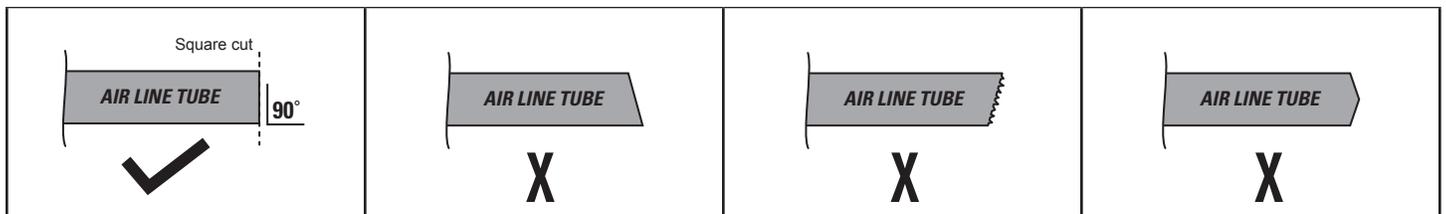
DO

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.

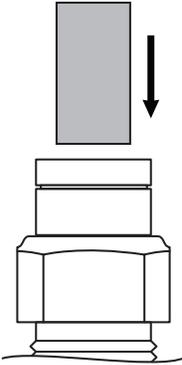
PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE



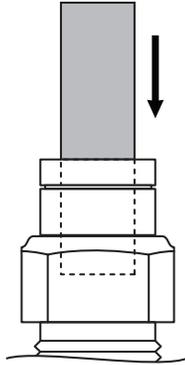
11

INSTALLING AIR LINE TUBE INTO AIR FITTINGS AND INFLATION VALVE

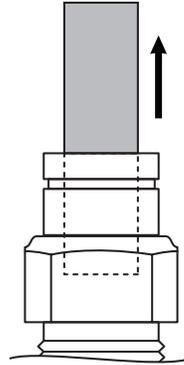
1 Insert end of air line tube into air fitting.



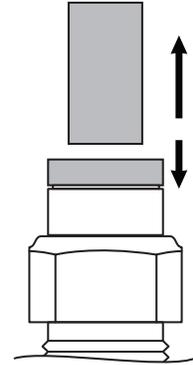
2 Push air line tube into air fitting as far as possible.



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.

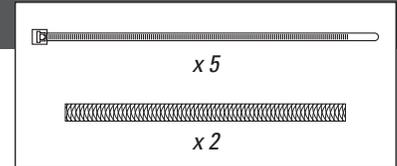


Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

12

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 sleeves near heat sources.
Use Nylon ties to secure the air line tube.

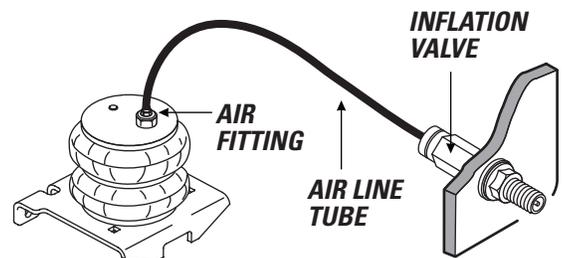
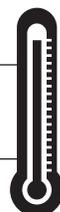
DON'T

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.

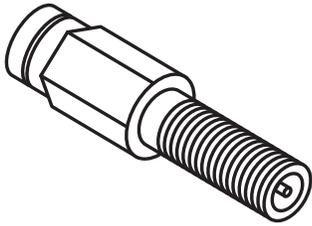
AIR LINE TUBE **THERMAL SLEEVE**



USE SUPPLIED THERMAL SLEEVES 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**.

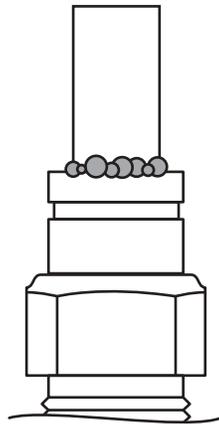


AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING.

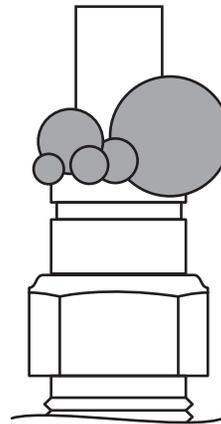
- 2** Spray fittings with soap and water mixture.



- 3** Observe bubbles.



**SMALL SOAP BUBBLES
THAT DO NOT EXPAND**



**SOAP BUBBLES
THAT EXPAND**



NO LEAKS?

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

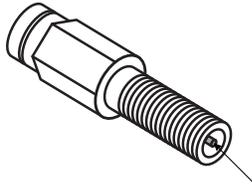
LEAK?

Bummer. Continue to step 14 to fix the leak.

14

FIXING AN AIR LEAK

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

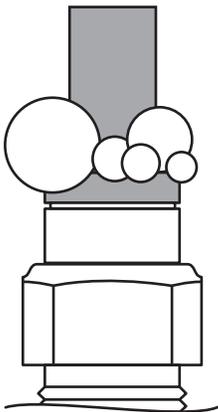


AIR VALVE



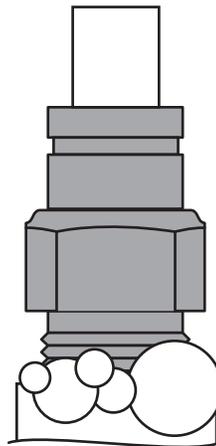
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR LINE TUBES FROM AIR FITTINGS.

LEAK AT AIR LINE TUBE AND AIR FITTING



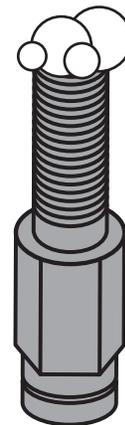
Release air line tube (see page 11). Review proper cuts and procedures in step 9. Repeat steps 10 and 12.

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. 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

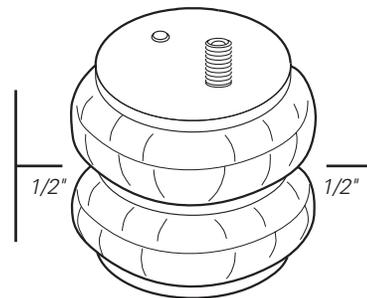
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

READ AND UNDERSTAND THE OPERATING INSTRUCTIONS

The Airide 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)



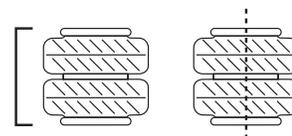
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BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

- 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 in your glove compartment for future reference.
- You've been bagged...and now your suspension is Airide™ equipped!

5 1/2" - 6 1/2"



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.

Firestone

Firestone Industrial Products

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