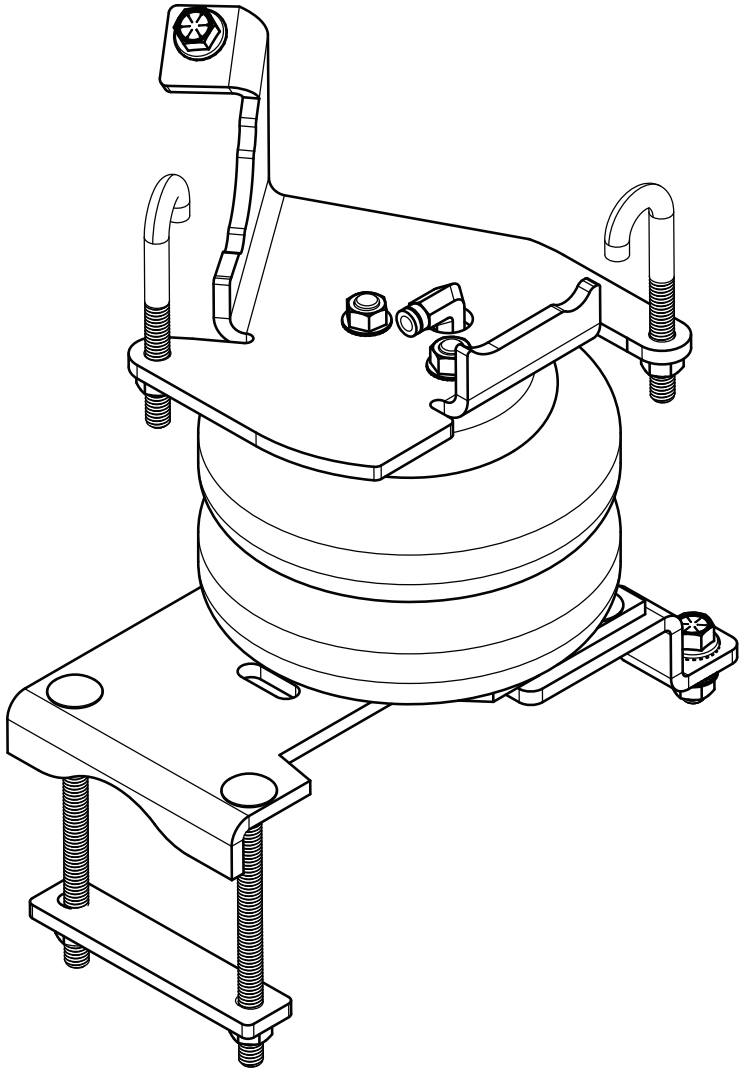
2649

AIRIDE

firestoneairide.com

INSTALLATION INSTRUCTIONS



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! 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.

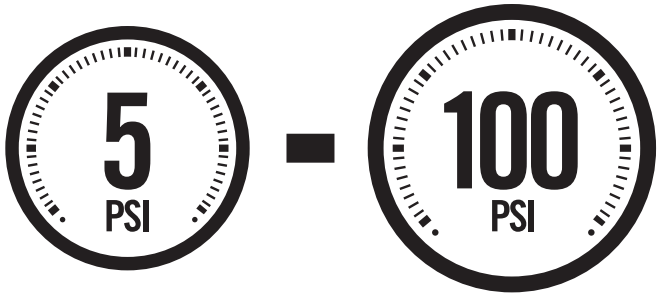
INFLATING THE AIR SPRINGS
When inflating air springs, add air pressure in small quantities, checking air pressure frequently. The air springs have much less air volume than a tire, so they inflate much more quickly.

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 or WRI-760-3461 retail pack).

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

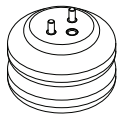
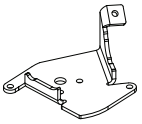
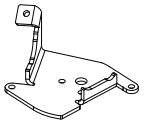
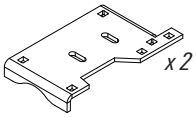
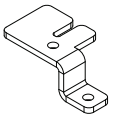
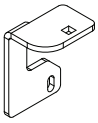


MINIMUM PRESSURE ***MAXIMUM PRESSURE (LOADED)***

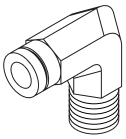
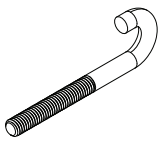
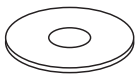
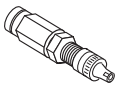
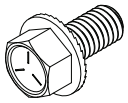
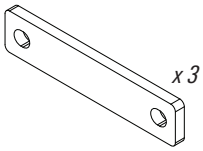
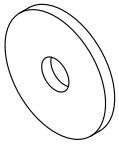
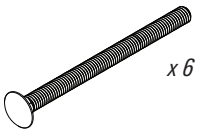
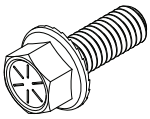
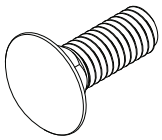
PARTS

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

MAIN KIT CONTENTS

PT # 6781	 x 2 AIR SPRING	PT # 5975	 x 1 UPPER LEFT	PT # 5976	 x 1 UPPER RIGHT
PT # 5977	 x 2 LOWER MAIN	PT # 9414	 x 1 RED AIR LINE TUBE (18 FEET)	PT # 5978	 x 1 LOWER LEFT
PT # 5979	 x 1 LOWER RIGHT				

A21-760-2649 HARDWARE PACK

PT # 3101	 x 2 1/4 NPT x 1/4 TUBE ELBOW	PT # 9483	 x 1 INFLATION VALVE BRACKET	PT # 3524	 x 4 J-HOOK
PT # 3033	 x 4 5/16" FLAT WASHER	PT # 3022	 x 19 3/8" - 16 FLANGE LOCK NUT	PT # 9036	 x 6 RED NYLON TIE
PT # 3032	 x 2 INFLATION VALVE AND VALVE CAP ASSEMBLY	PT # 3069	 x 2 3/8-16 x .75" HEX HEAD FLANGE SCREW	PT # 0899	 x 2 THERMAL SLEEVE
PT # 5850	 x 3 SPREADER BAR	PT # 9488	 x 2 LARGE NYLON TIE	PT # 0532	 x 2 3/8 FLAT WASHER LARGE
PT # 3501	 x 6 3/8-16 X 5 CARRIAGE BOLT	PT # 3106	 x 3 3/8-16 X 1.00 HEX HEAD FLANGE SCREW	PT # 3072	 x 1 3/8-16 X 1 CARRIAGE BOLT

CONTENTS AND OVERVIEW

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PAGE **7** LOOSELY ATTACH LOWER BRACKET TO AIR SPRING BOTTOM

PAGE **8** ORIENT EACH SPRING TO LOWER BRACKETS

PAGE **9** ATTACH UPPER BRACKETS

PAGE **10** ATTACH LOWER LEFT & RIGHT BRACKET TO AXLE

PAGE **11** WIRE HARNESS REROUTING AND SECURING

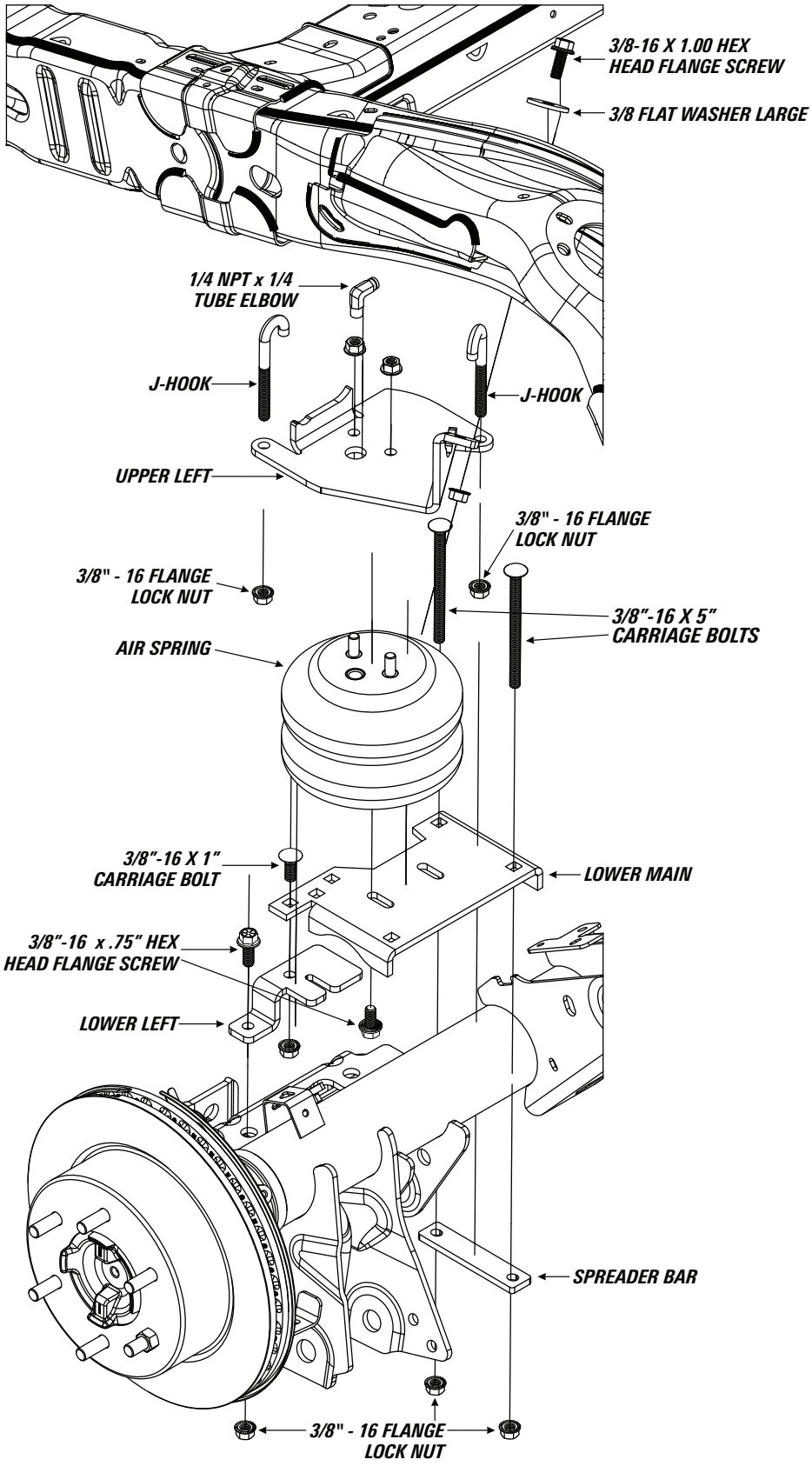
PAGE **12** CUT THE AIR LINE TUBE INTO TWO EQUAL LENGTHS

PAGE **13** INSTALLING AIR LINE TUBE INTO AIR FITTINGS AND INFLATION VALVE & ROUTE AND SECURE AIR LINE TUBES

PAGE **14** CHECKING THE AIR SYSTEM

PAGE **15** FIXING AN AIR LEAK

PAGE **16** FINISH THE INSTALLATION



1.1 Lift the vehicle and support the frame with safety stands. Lower the axle to create space for the air springs between the frame and axle.

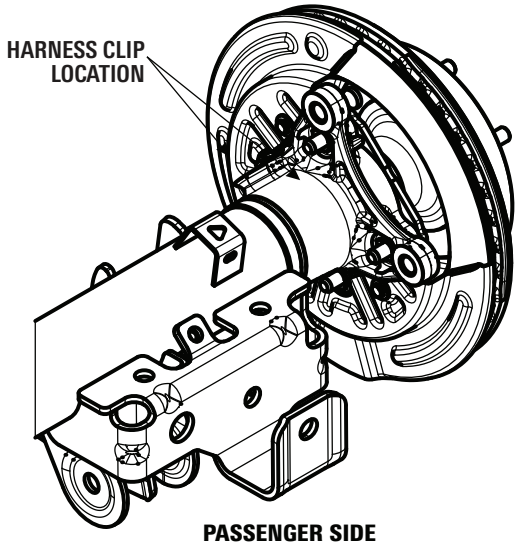
1.2 Remove both wheels.

1.3 Detach the wiring harness clips from the axle tube brackets on both sides.

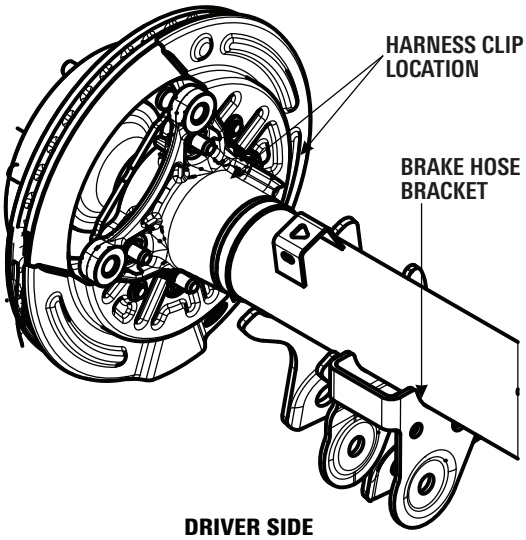
1.4 On the driver's side, remove the clip-on tab from the four-bar mount and the 8mm bolt from the brake hose bracket.

1.5 Save the bolt for later use.

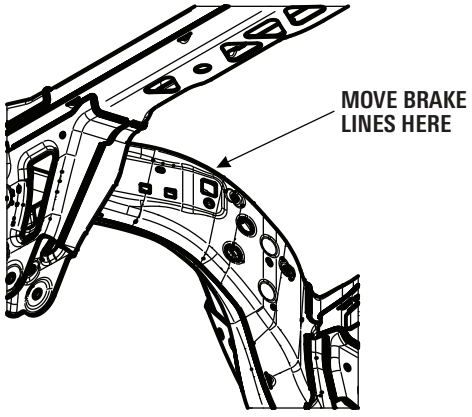
1.6 Gently pry the brake lines away from the driver's side frame rail by 1/8".



PASSENGER SIDE



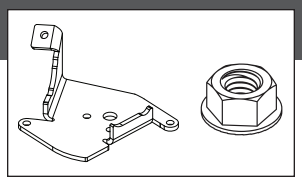
DRIVER SIDE



DRIVER SIDE FRAME RAIL

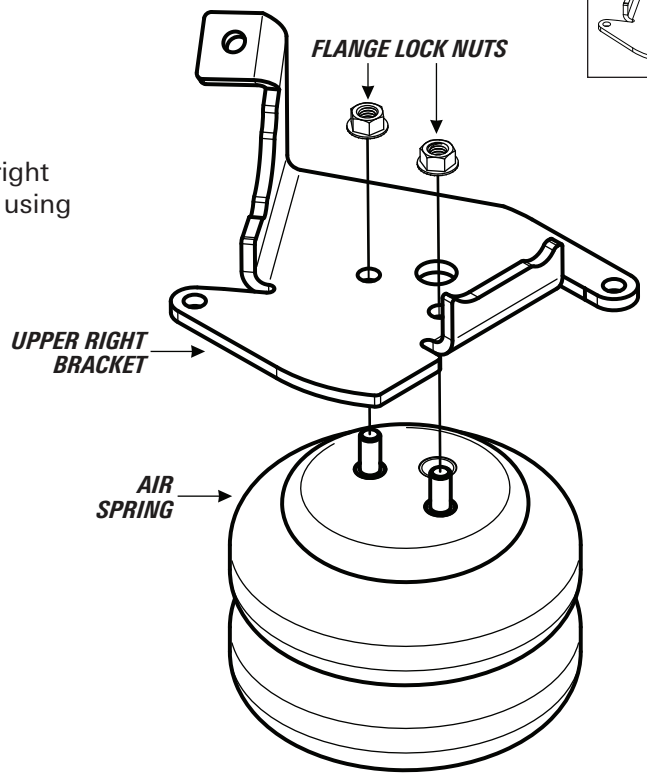
START THE INSTALLATION ON THE LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD.

2 ASSEMBLE THE AIR SPRING/UPPER BRACKET

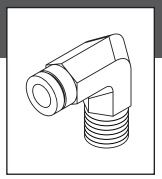


2.1 Attach the upper left (5975) and right (5976) brackets to the air springs using 3022 flange lock nuts.

2.2 Tighten to 28 lb-ft.

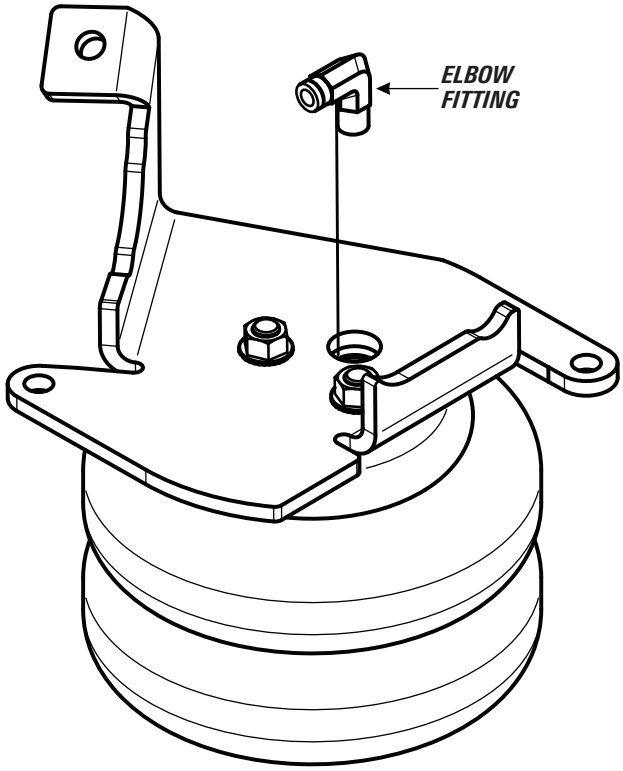


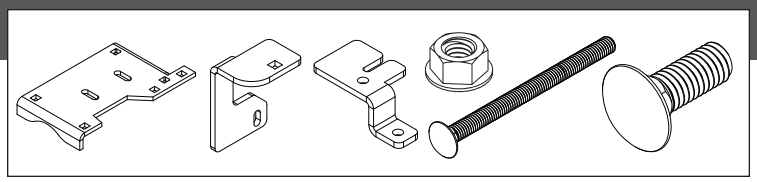
3 INSTALL AIR FITTING



3.1 Thread 3101 air fitting into air spring.

3.2 Securely tighten air fitting with tubing opening facing air spring studs.

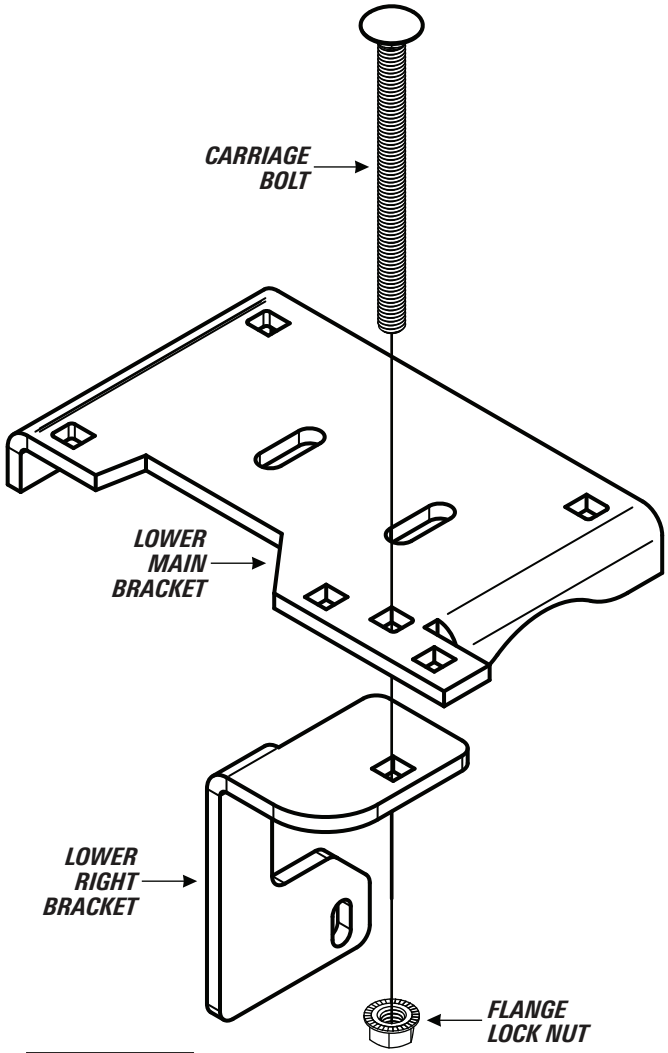




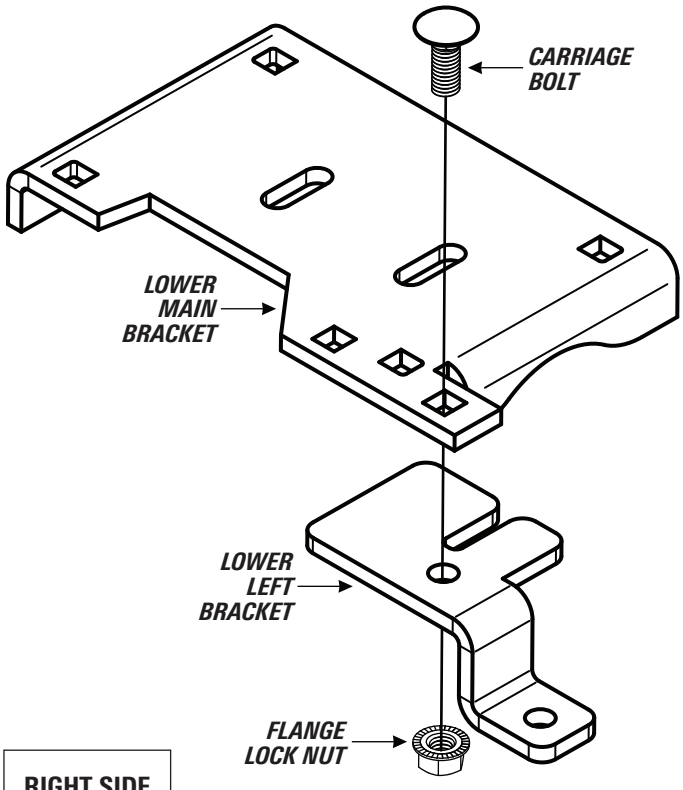
4.1 Using two 5977 brackets, create the left and right lower bracket assemblies

4.2 Attach a 5978 using a 3501 bolt and 3022 nut as shown for the left subassembly

4.3 Attach a 5979 using a 3072 bolt and 3022 nut as shown for the right subassembly

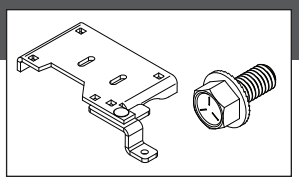


LEFT SIDE



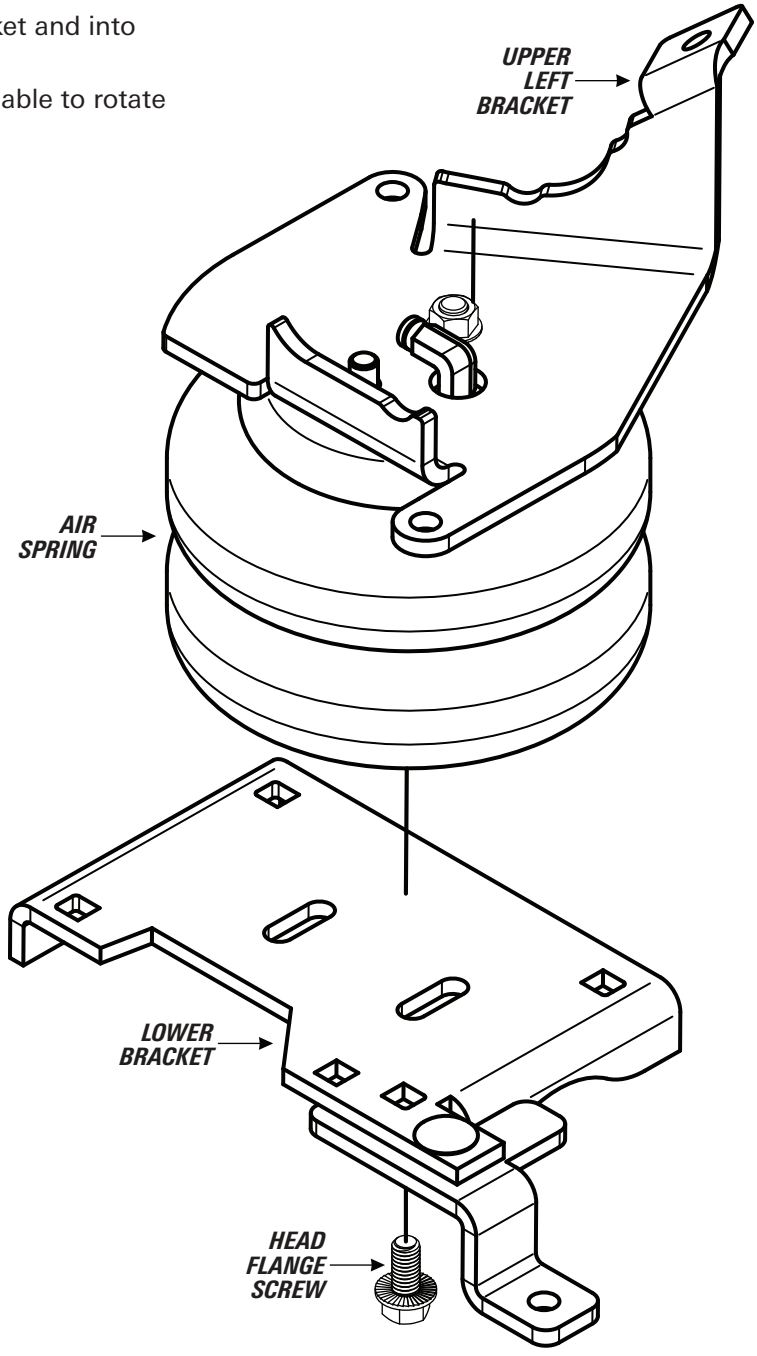
RIGHT SIDE

5 LOOSELY ATTACH LOWER BRACKET TO AIR SPRING BOTTOM



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

5.2 Do not tighten – you will need to be able to rotate spring for proper orientation.





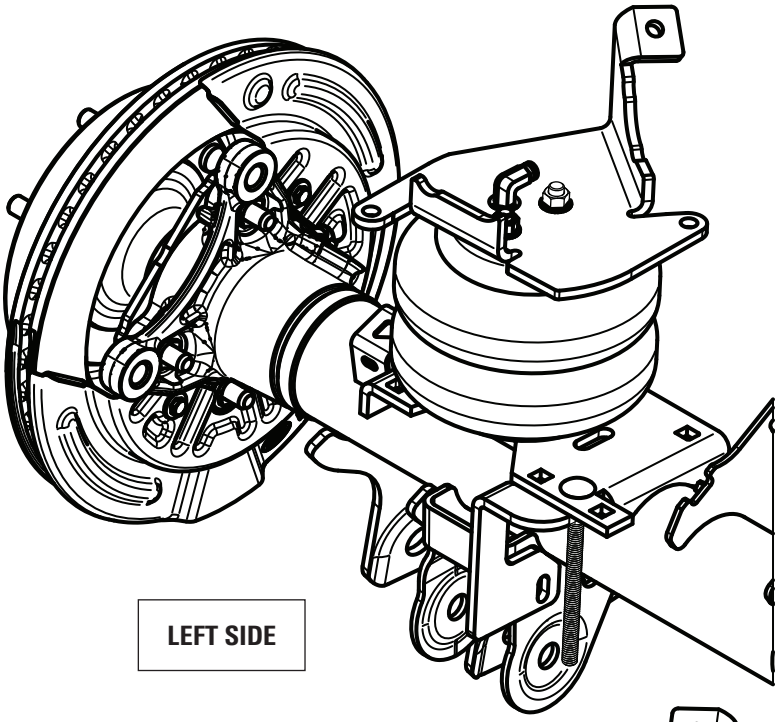
x 2

6.1 Place corresponding bracket and spring assembly in position over axle for each side.

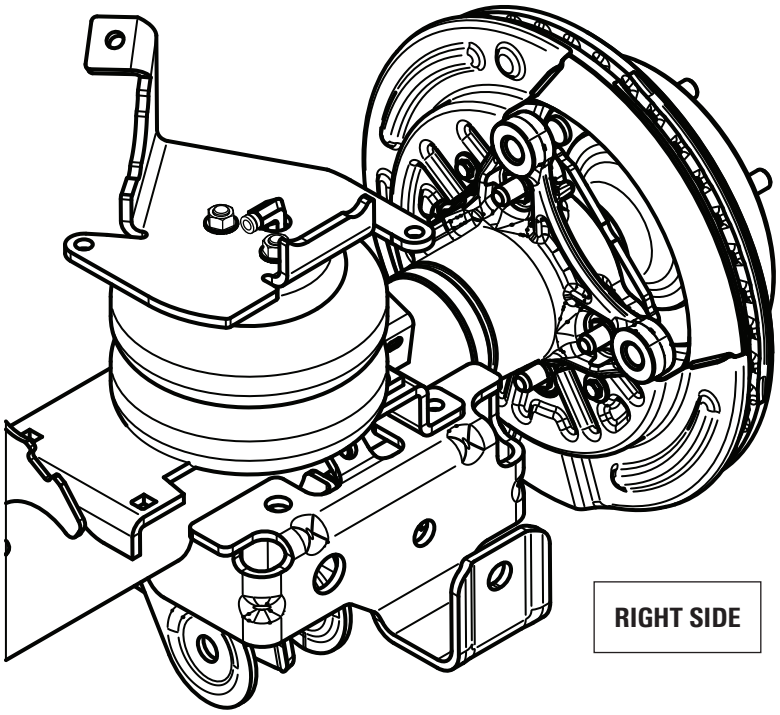
6.2 Accurately mark this position on lower spring plate and lower bracket for the left and right.

6.3 Remove spring from upper bracket.

6.4 With marks aligned, secure spring to lower bracket by tightening 3069 bolts to 28 lb-ft

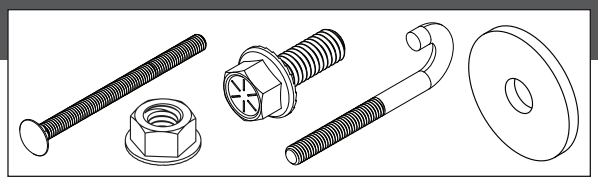


LEFT SIDE



RIGHT SIDE

7 ATTACH UPPER BRACKETS



7.1 Lower the vehicle until the frame contacts the upper bracket.

7.2 Insert J-bolts into openings in frame and into the upper brackets.

7.3 Loosely attached the J-bolts with 3022 nuts.

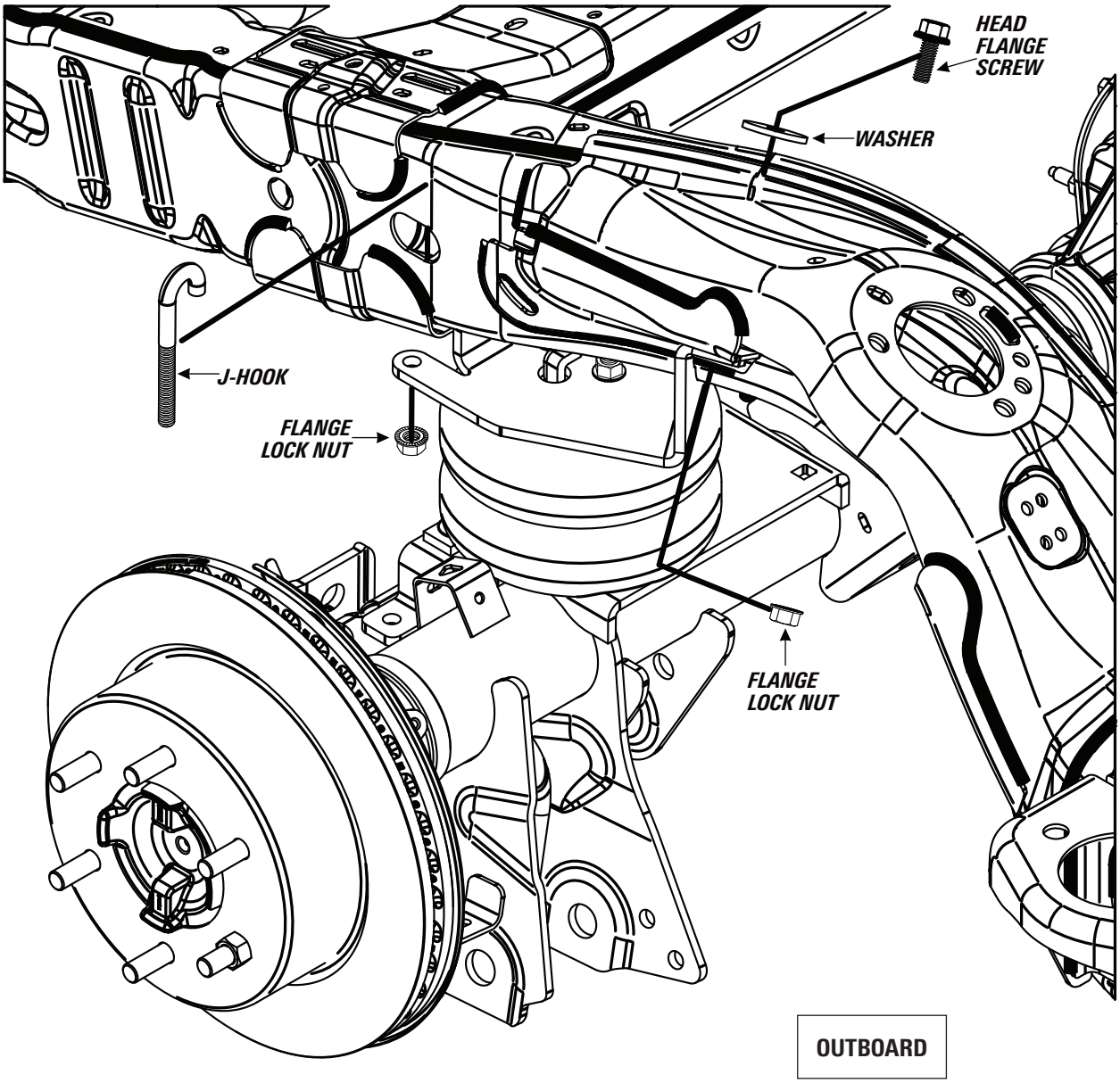
7.4 Install a 3106 bolt with 0532 washer through the frame rail and into the tab on each upper bracket.

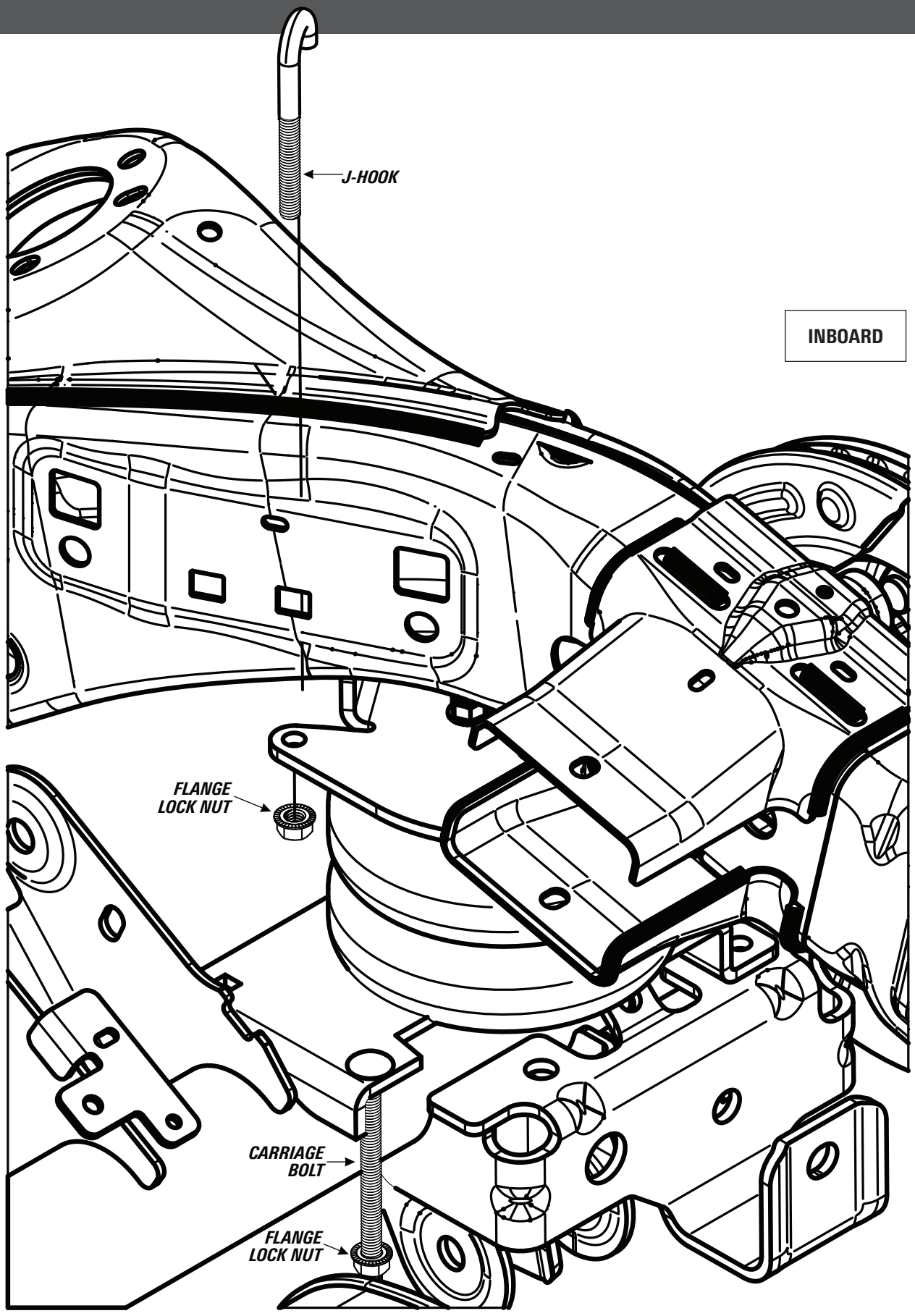
7.5 Loosely attached them with a 3022 nut.

7.6 Adjust the upper brackets positioning to ensure proper contact with the frame rail.

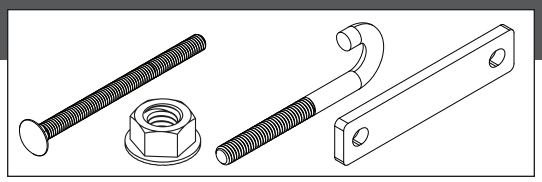
7.7 Make sure air fitting is rotated towards center of vehicle.

7.8 Tighten all 3022 nuts to 28 lb-ft.




J-HOOK
INBOARD
FLANGE
LOCK NUT
CARRIAGE
BOLT
FLANGE
LOCK NUT

8 ATTACH LOWER LEFT BRACKET TO AXLE



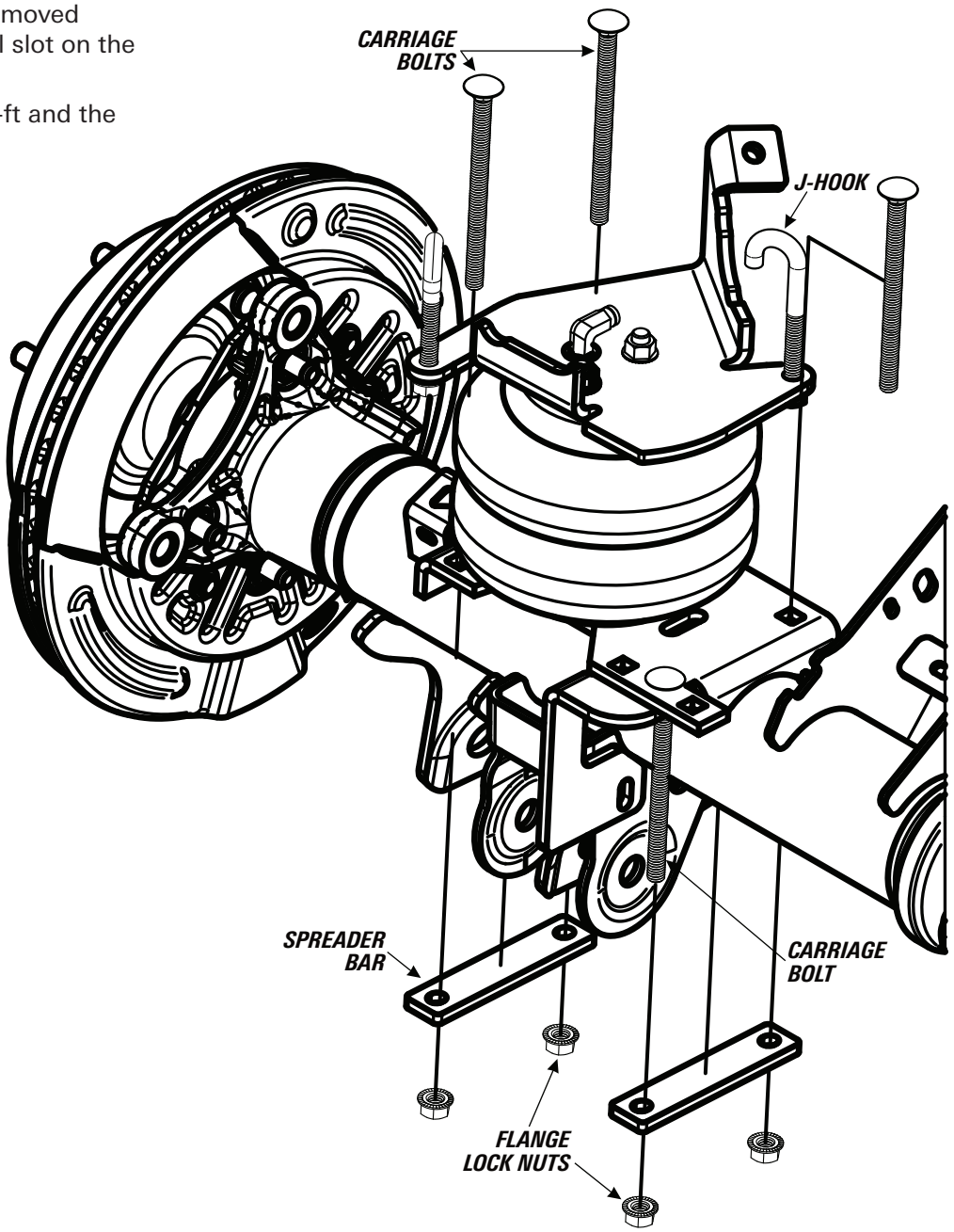
8.1 With lower bracket in position, insert three 3501 carriage bolts into the appropriate holes.

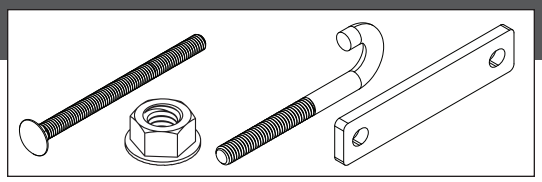
8.2 Place a 5850 spreader bar on each pair of carriage bolts.

8.3 Loosely attach the spreader bars with 3022 nuts.

8.4 Re-install the 8mm bolt removed previously into the vertical slot on the bracket assembly.

8.5 Tighten lock nuts to 28 lb-ft and the 8mm bolt to 13 lb-ft





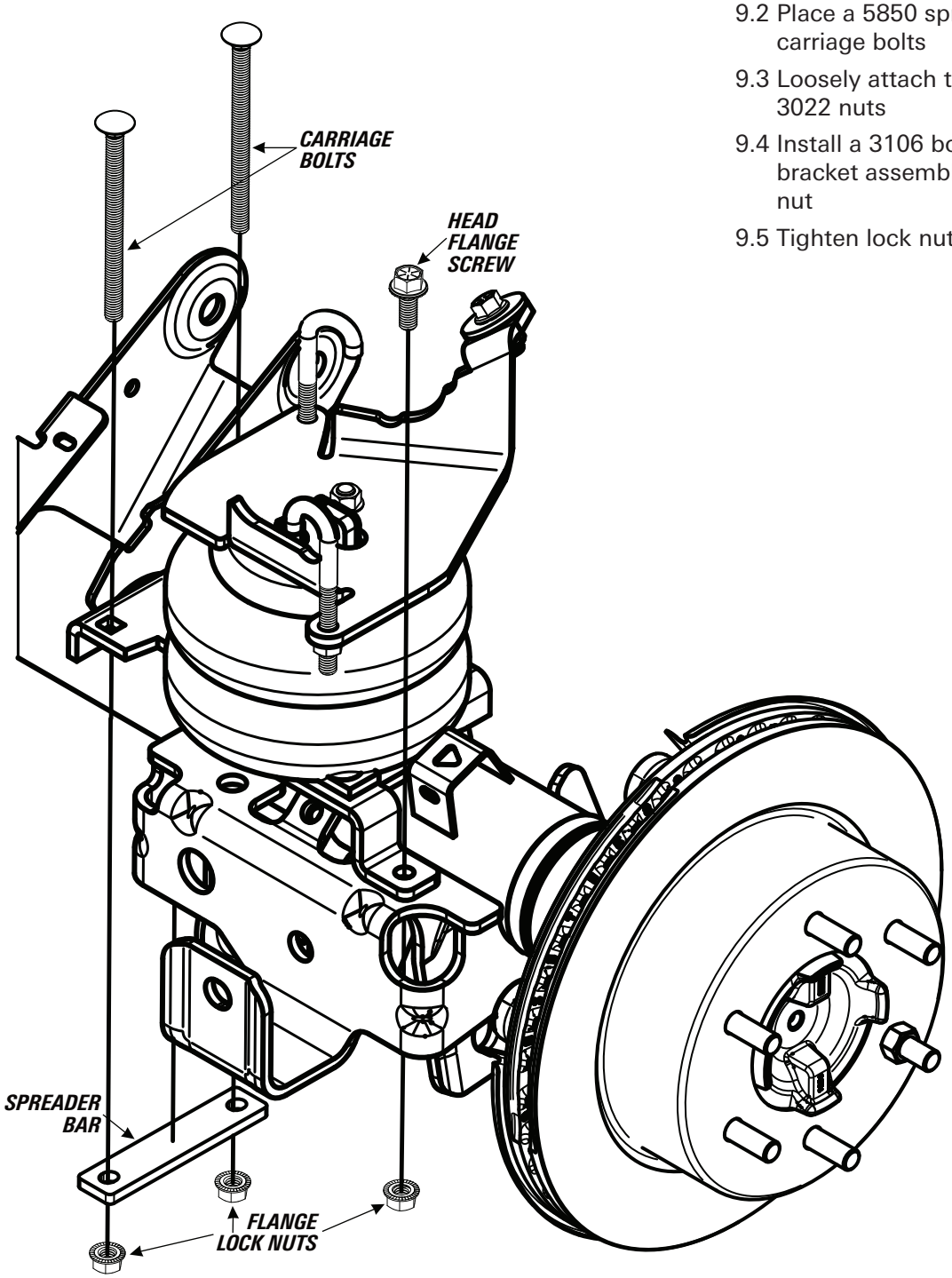
9.1 With lower bracket in position, insert two 3501 carriage bolts into the appropriate holes

9.2 Place a 5850 spreader bar on the pair of carriage bolts

9.3 Loosely attach the spreader bar with 3022 nuts

9.4 Install a 3106 bolt through the top of the bracket assembly and retain with a 3022 nut

9.5 Tighten lock nuts to 28 lb-ft



10 WIRE HARNESS REROUTING AND SECURING

10.1 or the left side, secure the wiring harness that was disconnected from the axle boss in the "Prepare for Installation" section.

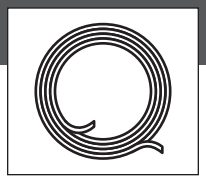
10.2 Bundle the harness with a zip tie and reposition the spring clip to the rear of the four-bar mount on the axle.

10.3 For the right side, secure the wiring harness that was disconnected from the axle boss in the "Prepare for Installation" section.

10.4 Use a zip tie to attach the harness to the inside carriage bolt and the forward hole on the axle boss.

10.5 Once completed, you can place the tires back onto the vehicle and torque the lug nuts according to the specifications required for the specific Bronco model.

11 CUT THE AIR LINE TUBE INTO TWO EQUAL LENGTHS



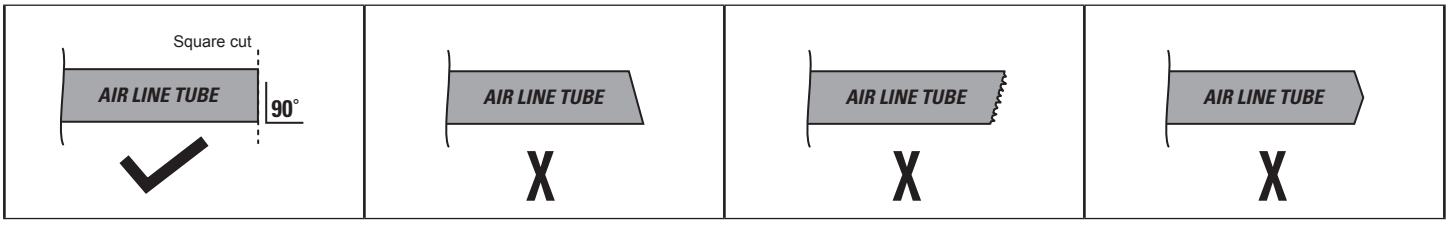
1 Match air line tube ends.



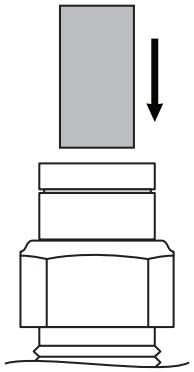
2 Find center of air line tube, make a square cut with tube cutter or sharp utility knife.

DO	DON'T
Make sure the cut is as square as possible. Use a tube cutter or sharp utility knife.	Fold or kink the air line tube. Cut the air line tube at an angle. Use pliers, scissors, snips, saws, or side cutters.

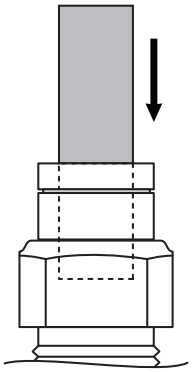
PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE



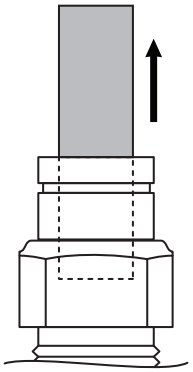
1 Insert end of air line tube into air fitting.



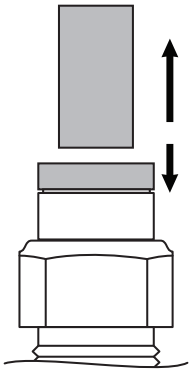
2 Push air line tube into air fitting as far as possible.



3 Gently pull on the air line tube to check for a secure fit.



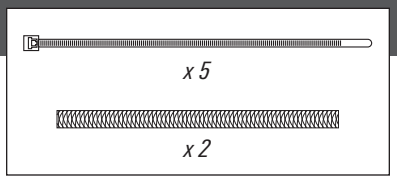
4 To remove, push down collar and gently pull air line tube away.



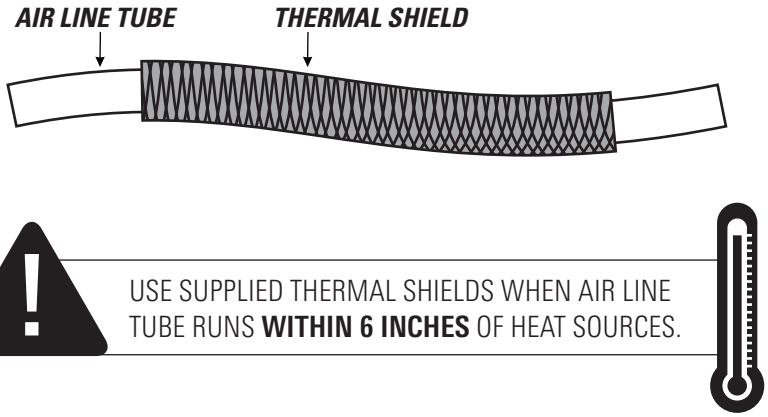
Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

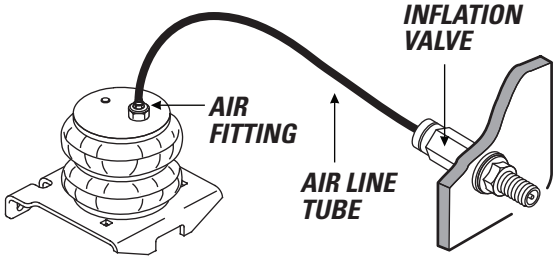
13 ROUTE AND SECURE AIR LINE TUBES

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.

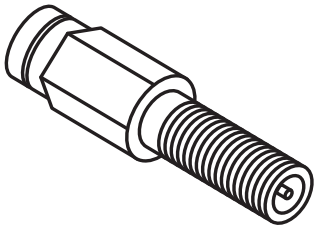


DO	DON'T
Select routes protected from heat, debris, and sharp edges. Use thermal shields near heat sources. Use Nylon ties to secure the air line tube.	Bend or sharply curve air line tubes. Leave air line tube exposed to sharp edges. Use unnecessary lengths of air line tube. Route air line tube near moving parts. Let air line tube hang unsecured from vehicle. Scar air line tube while routing.





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



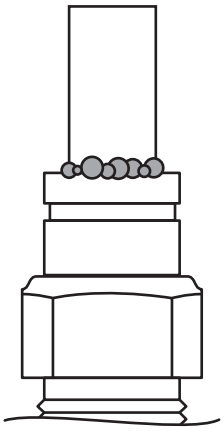


AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING.

2 Spray fittings with soap and water mixture.

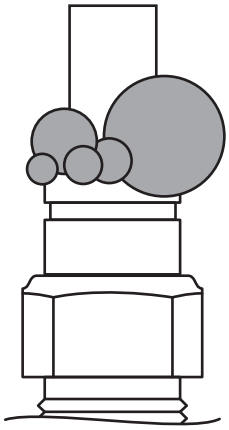


3 Observe bubbles.



SMALL SOAP BUBBLES THAT DO NOT EXPAND

✓



SOAP BUBBLES THAT EXPAND

X

NO LEAKS?

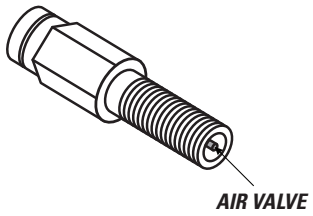
Congratulations! Continue to step 16 to finish installation. Review the Operating Instructions.

LEAK?

Bummer. Continue to step 15 to fix the leak.

15 FIXING AN AIR LEAK

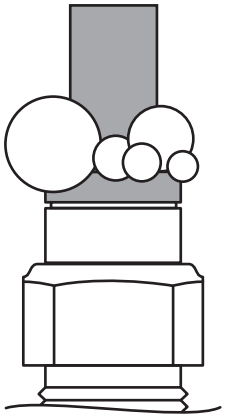
1 Press the air valve on end of inflation valve to release all air pressure.





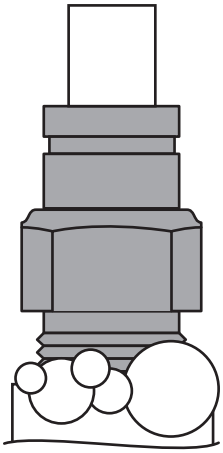
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR LINE TUBES FROM AIR FITTINGS.

LEAK AT AIR LINE TUBE AND AIR FITTING



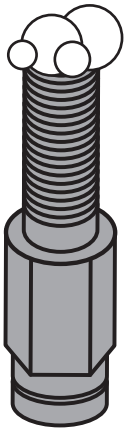
Release air line tube (see page 11). Review proper cuts and procedures in step 9. Repeat steps 10 and 12.

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

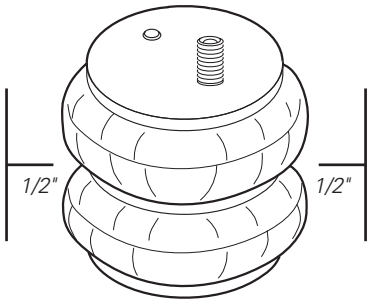
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

READ AND UNDERSTAND THE OPERATING INSTRUCTIONS

The 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.



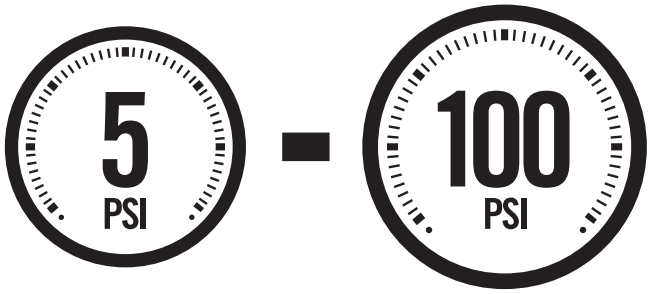
USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



! 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)*

2649

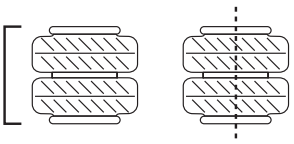
AIRIDE

firestoneairide.com

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 paperwork 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!

5 1/2" - 6 1/2"



NEED INSTALLATION HELP?

Email us at **rrtech@fsip.com**. Please include photos, kit number, and the year, make, and model of the vehicle to help us better diagnose and understand any problems you may be experiencing.

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