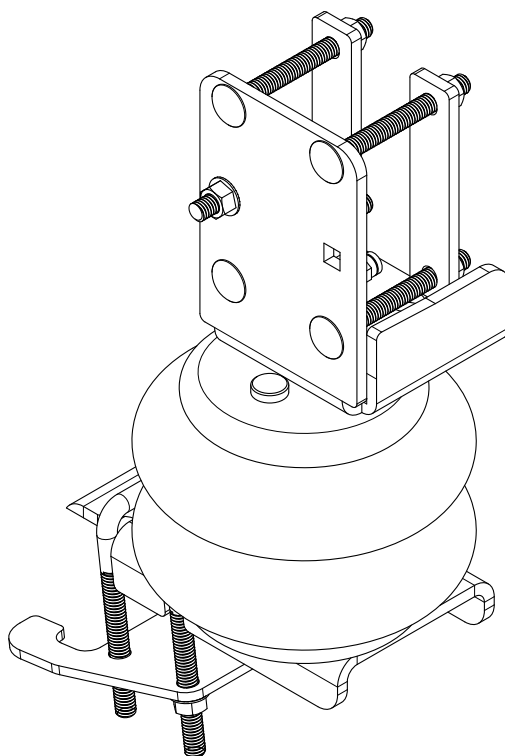


# Firestone

## AIRIDE

[firestoneairide.com](http://firestoneairide.com)

# INSTALLATION INSTRUCTIONS



**Firestone**  
Firestone Industrial Products

# ! 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**

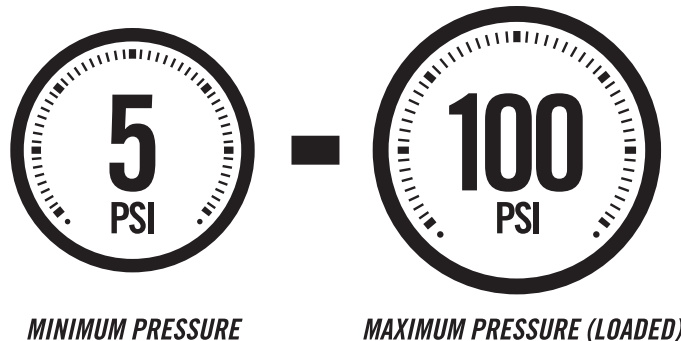
For best ride, use only enough air pressure in the air springs to level the vehicle when viewed from the side (front to rear). This will vary, depending on the load, location of the load, condition of the existing suspension, and personal preference.

## **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).


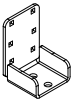
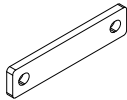
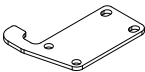
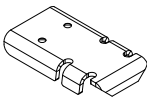


**ONCE INSTALLED SUCCESSFULLY, FOLLOW THESE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS:**




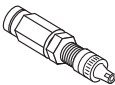


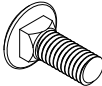
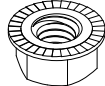







# PARTS

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

## MAIN KIT CONTENTS

PT # 6766	 x 2 AIR SPRING	PT # 5969	 x 2 UPPER BRACKET	PT # 5851	 x 4 SPREADER BAR
PT # 5893	 x 2 SPRING CLAMP PLATE	PT # 5934	 x 2 LOWER BRACKET	PT # 1004	 x 1 HEAT SHIELD
PT # 9415	 x 1 AIR LINE TUBING (22 FEET)				

## A21-760-2637 HARDWARE PACK

PT # 9483	 x 1 INFLATION VALVE BRACKET	PT # 3032	 x 1 INFLATION VALVE AND CAP	PT # 3033	 x 4 5/16" FLAT WASHER
PT # 3370	 x 2 3/8" - 16 x .75 FLAT HEAD SCREW	PT # 3072	 x 2 3/8" - 16 x 1 CARRIAGE BOLT	PT # 3022	 x 18 3/8" - 16 HEX HEAD FLANGE LOCK NUT
PT # 3134	 x 3 BAIL CLAMP 3/8" - 16 x 4	PT # 0899	 x 2 THERMAL SLEEVE	PT # 9036	 x 6 RED NYLON TIE
PT # 9488	 x 2 LARGE NYLON TIE	PT # 3031	 x 2 ELBOW FITTING	PT # 3482	 x 1 3/8" - 16 x 3.5 CARRIAGE BOLT
PT # 3332	 x 2 5/8" - 18 NYLON INSERT HEX THIN JAM NUT				

# CONTENTS AND OVERVIEW

PAGE **4** PREASSEMBLE  
UPPER BRACKET

PAGE **5** ATTACH UPPER  
BRACKET  
LOOSELY ATTACH  
LOWER BRACKET TO  
AIR SPRING BOTTOM

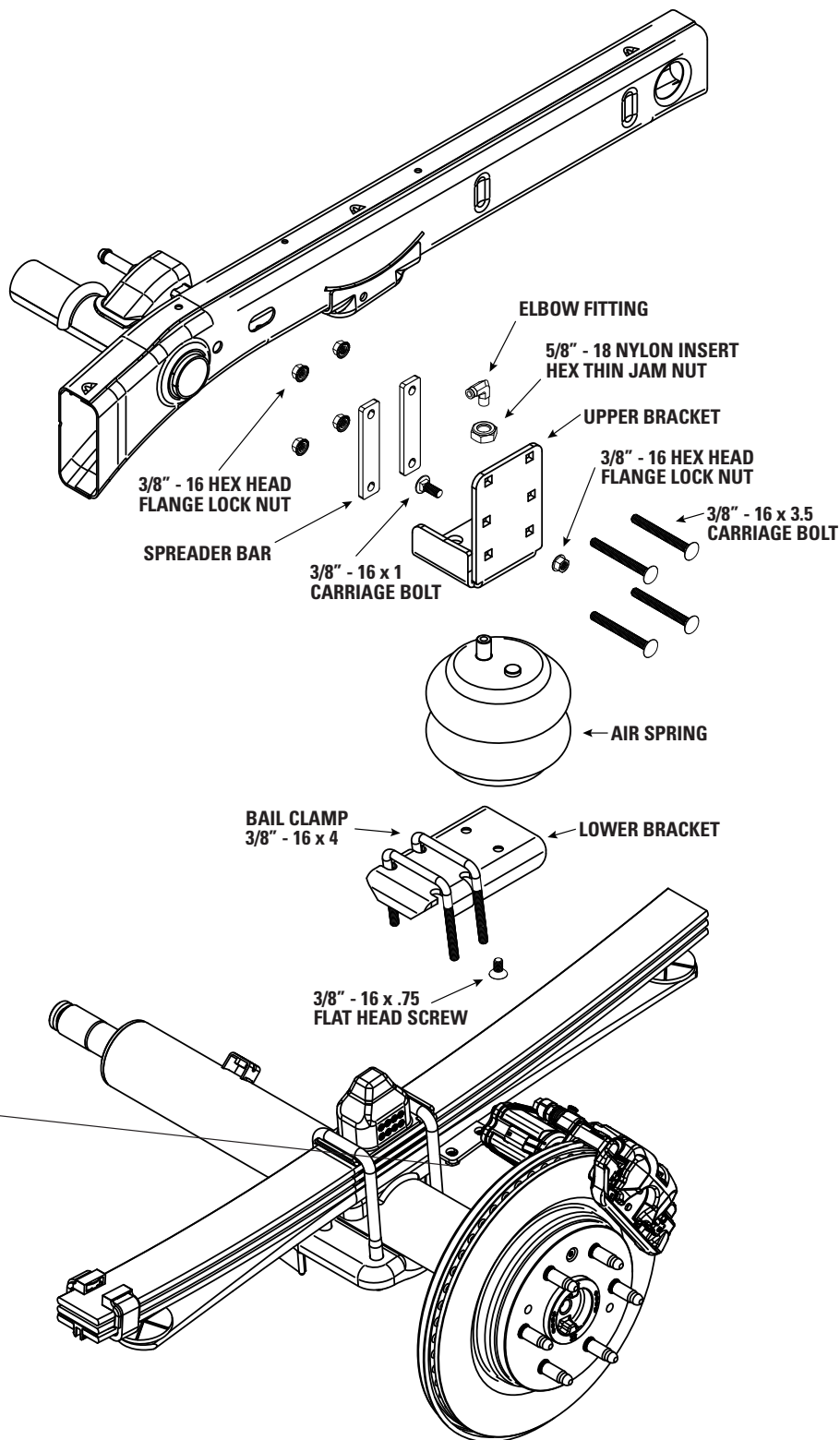
PAGE **6** ORIENT SPRING TO  
LOWER BRACKET

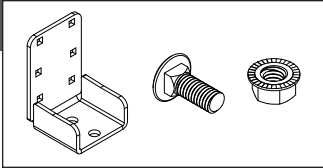
PAGE **7** INSTALL SPRING

PAGE **8** INSTALL AIR FITTING

PAGE **9** ATTACH LOWER  
BRACKET TO AXLE

PAGE **10** INSTALL HEAT SHIELD





**1** Attach one 3072 carriage bolt to forward center hole of 5969 bracket using 3022 nut.

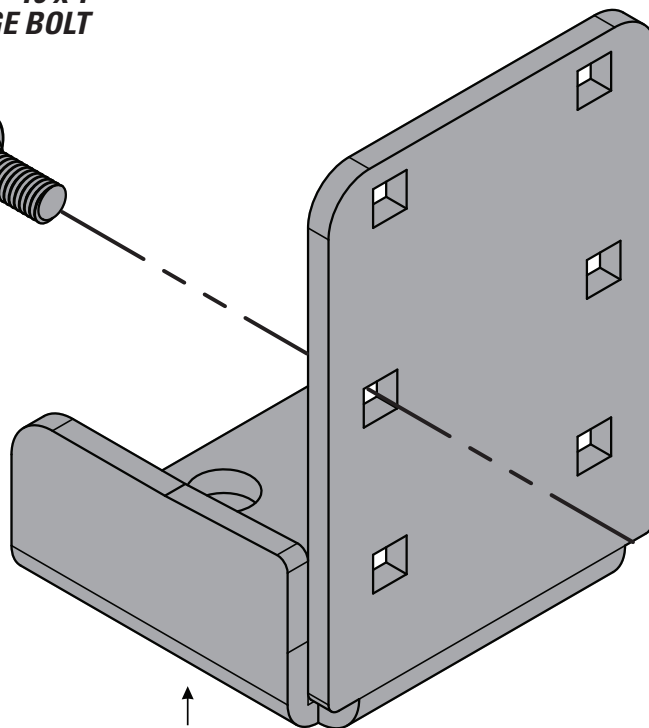
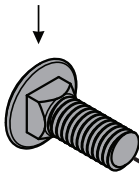
**2** Tighten to 23 lb-ft.

**3** The bolt head should be on the inside of the bracket with the threads pointing outward.



START THE INSTALLATION ON THE LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD (USA DRIVER SIDE).

**3/8" - 16 x 1  
CARRIAGE BOLT**



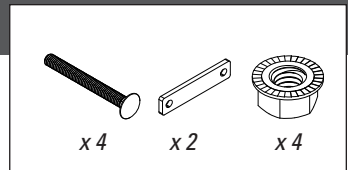
**UPPER BRACKET**



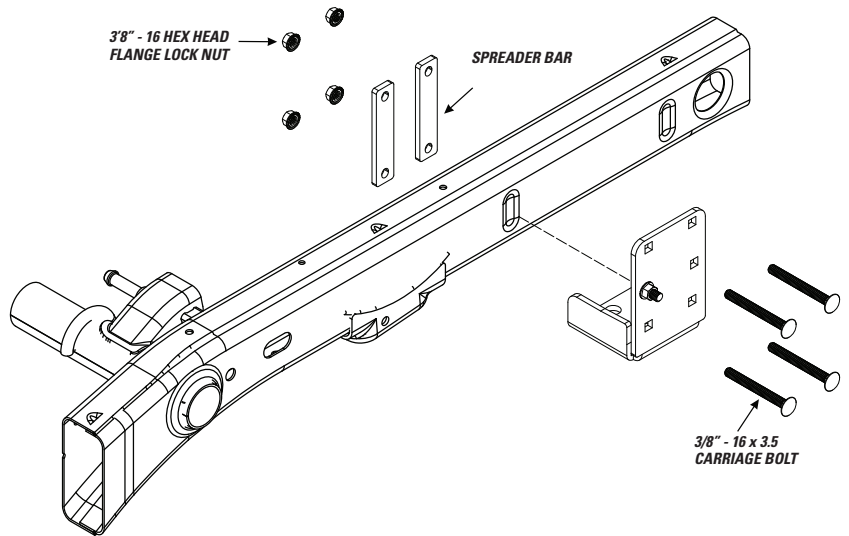
**3/8" - 16 HEX HEAD  
FLANGE LOCK NUT**

## 2

### ATTACH UPPER BRACKET

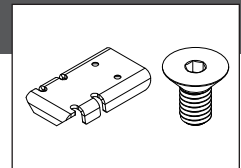


- 1 Align previously installed 3072 bolt head with depression in frame.
- 2 Use four 3482 bolts, two 5851 brackets/clamps, and four 3022 nuts to attach the upper bracket assembly to the frame.
- 3 The bottom flanges should be up against the frame with a possible slight gap on the inside edge and the vertical face of the bracket after tightening.
- 4 Tighten all fasteners to 23 lb-ft.

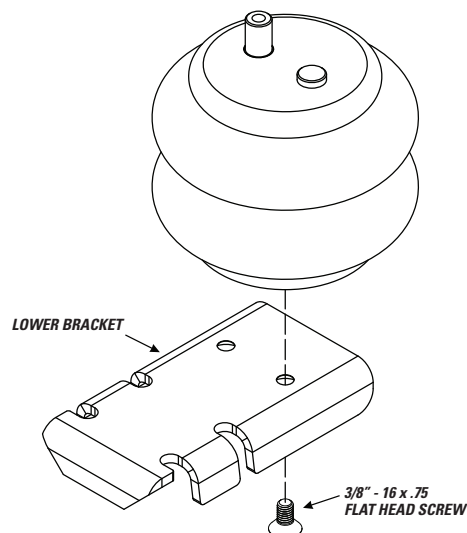


## 3

### LOOSELY ATTACH LOWER BRACKET TO AIR SPRING BOTTOM



- 1 Insert 3370 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.



DO NOT FULLY TIGHTEN THE FASTENER AT THIS STAGE.

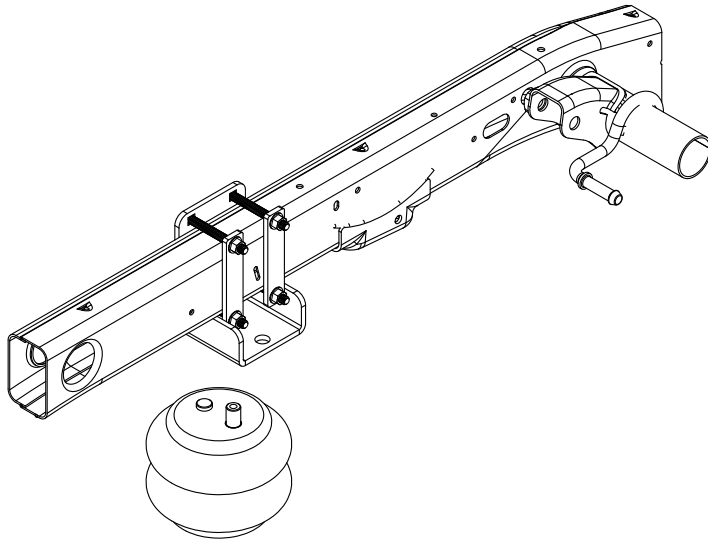


USE WHICHEVER HOLE ALLOWS THE GREATEST CLEARANCE AROUND AIR SPRING.

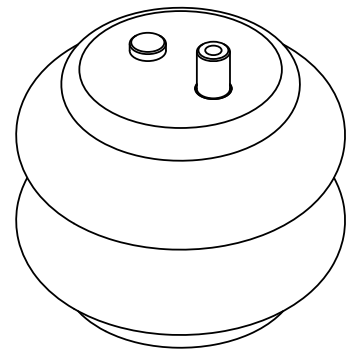
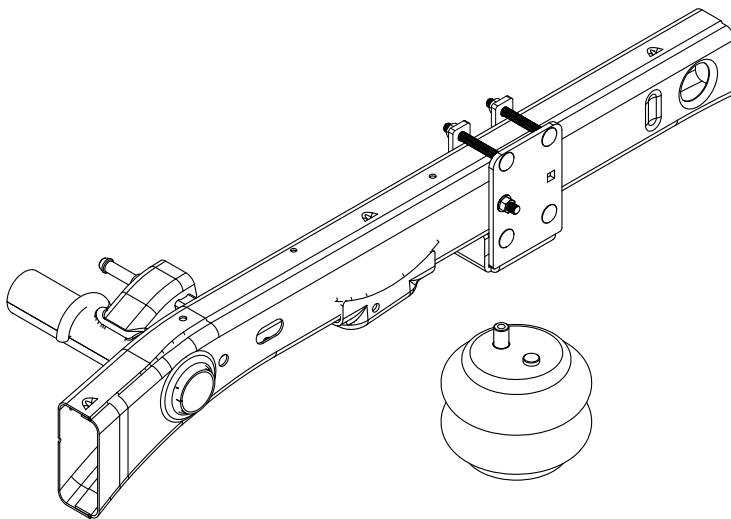
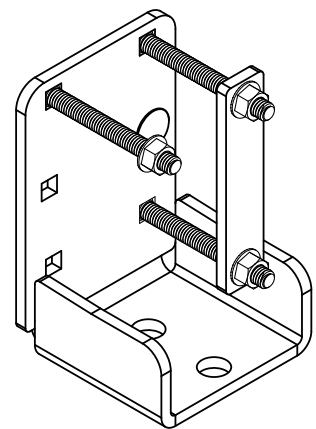
**1** Temporarily insert spring into upper bracket.

**2** Do not attach combo stud nut at this time.

**3** Ensure air spring index pin is fully seated into upper bracket hole.



PARTS HIDDEN  
FOR CLARITY



**4** Accurately mark this position on lower spring plate and lower bracket.

**5** Remove spring from upper bracket.

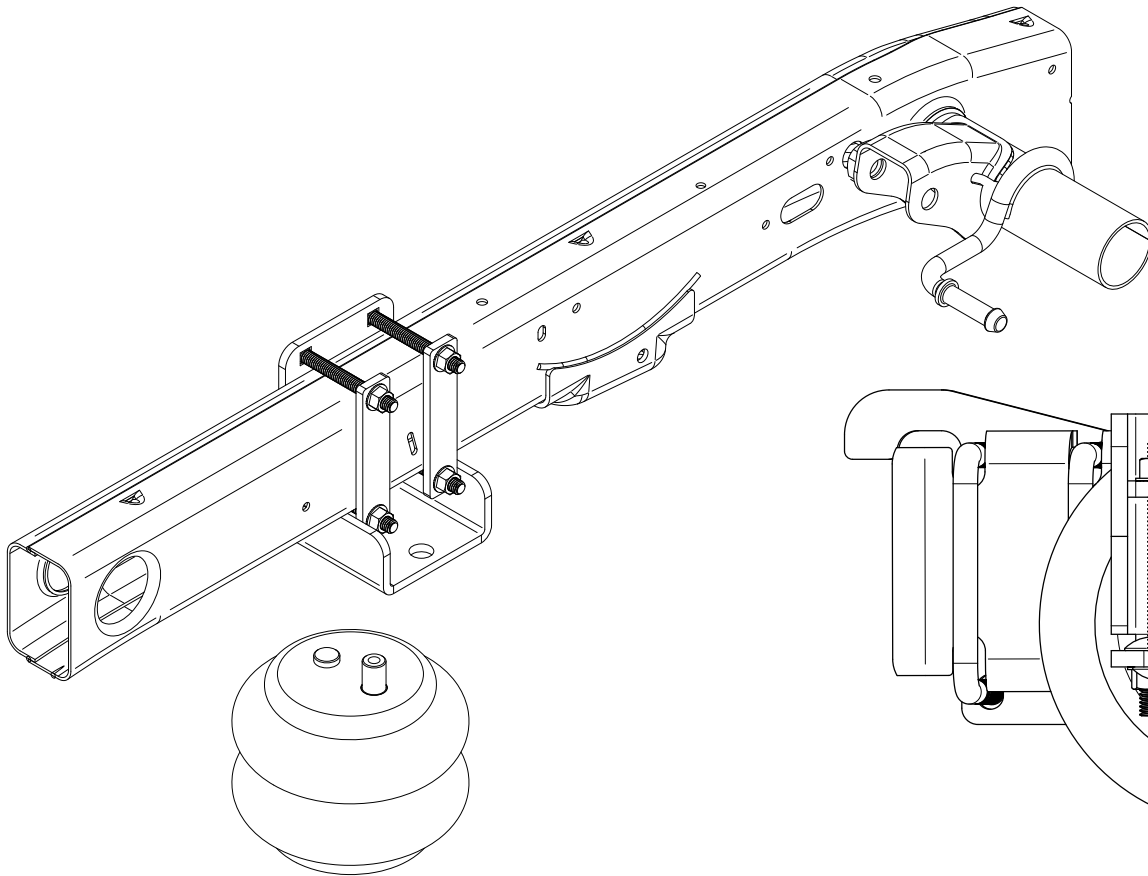
**6** With marks aligned, secure spring to lower bracket by tightening 3370 bolt.



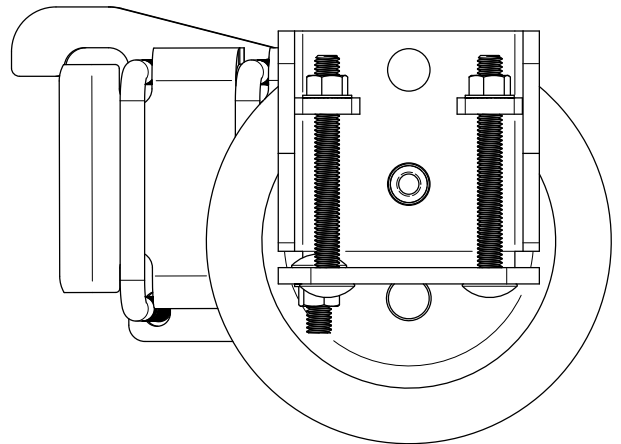
**1** Insert spring into upper bracket.

**2** Make sure air spring index pin is properly seated in upper bracket hole.

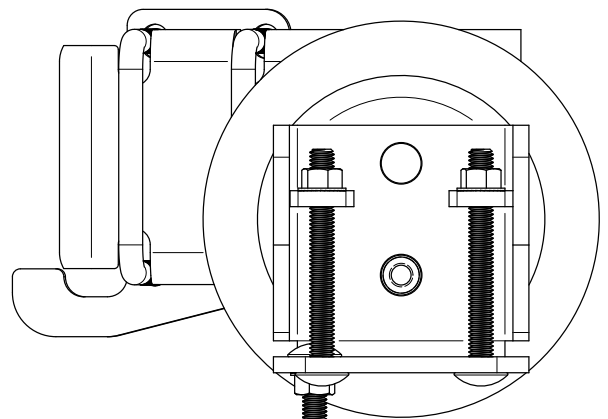
**3** Secure spring to upper bracket using 3332 jam nut



OUTBOARD



INBOARD



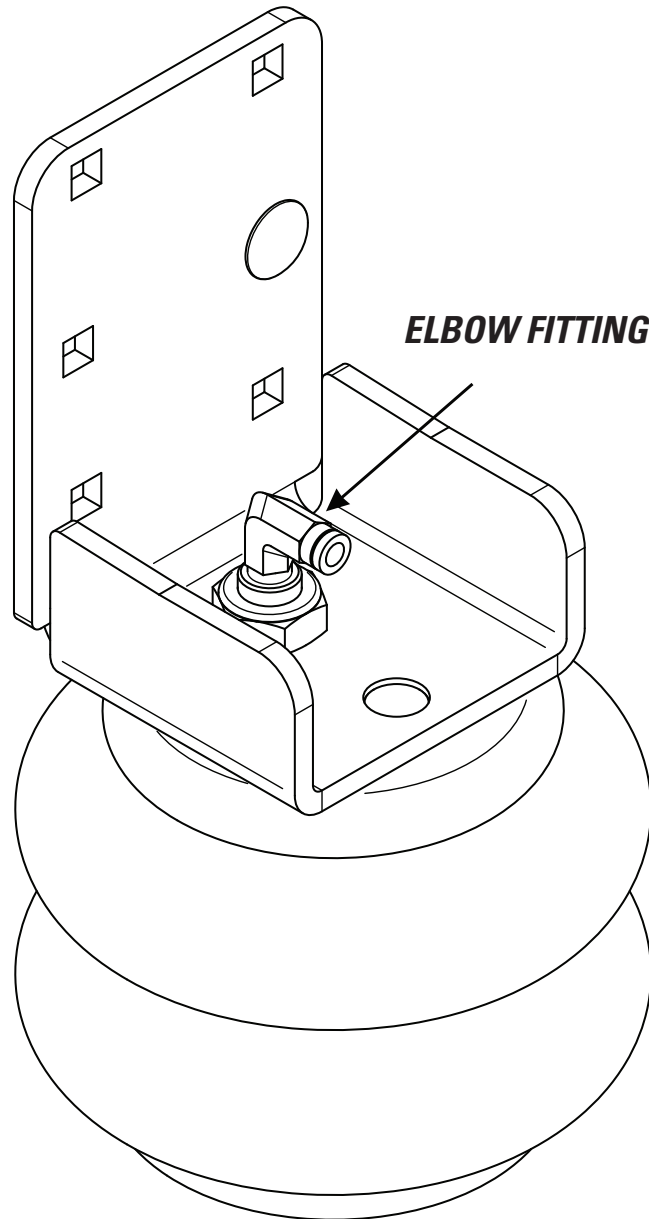
THE AIR FITTING MAY BE INSTALLED  
AT THIS POINT IF NECESSARY WHILE  
THE JAM NUT IS LOOSE





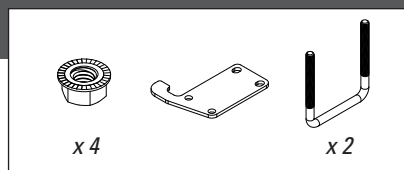
**1** Thread 3031 air fitting into air spring combo stud

**2** Securely tighten air fitting



# 7

## ATTACH LOWER BRACKET TO AXLE

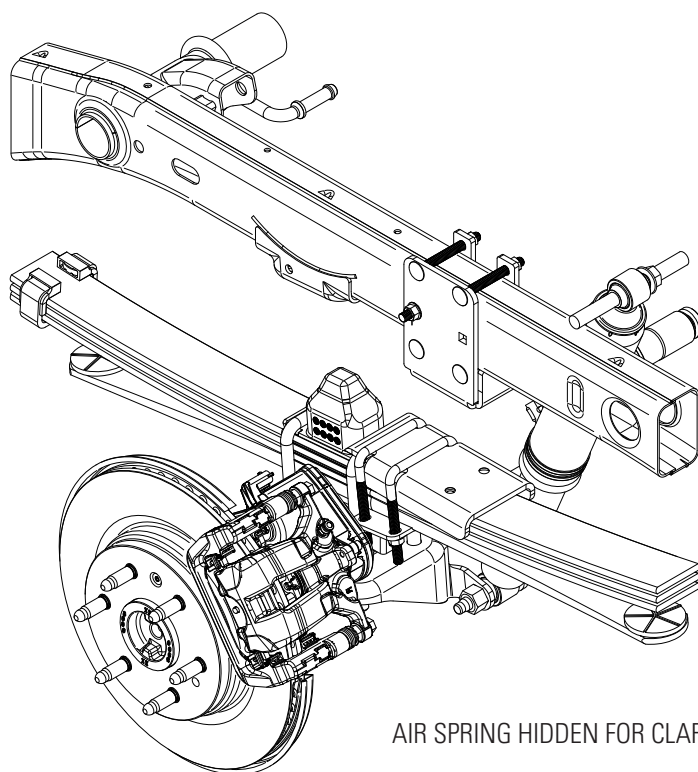
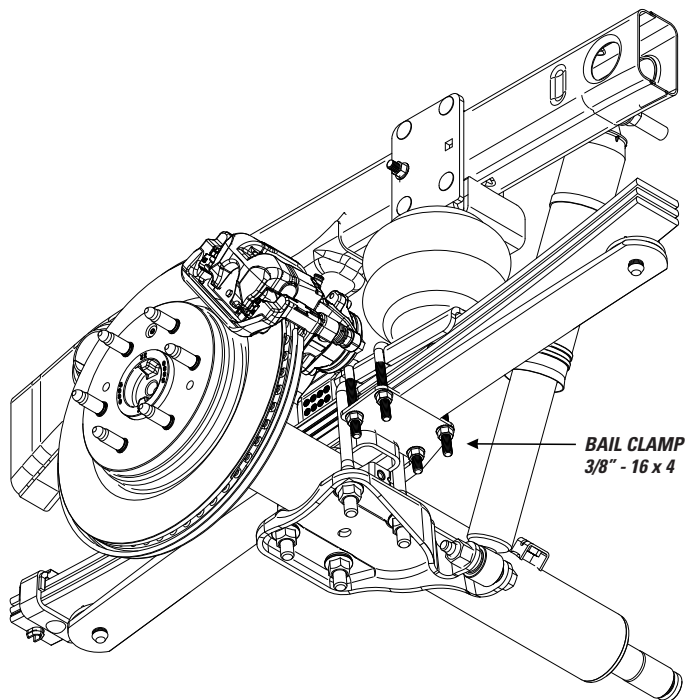


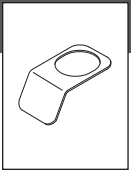
**1** Insert 3134 U-bolts into slots on 5934 lower bracket.

**2** Place assembly on leaf spring with front edge of bracket hooked over jounce bumper flange.

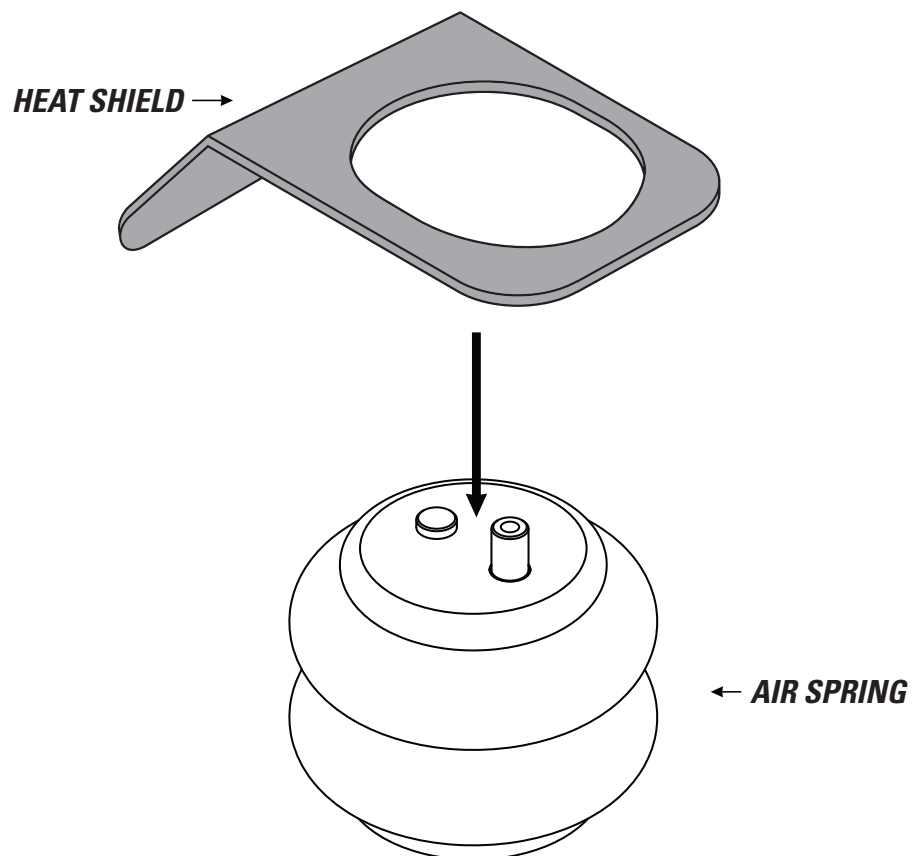
**3** Clamp assembly to leaf spring with 5893 plate - place hook on plate around U-bolts if possible.

**4** Secure lower bracket to axle with 3022 flange nuts on pre-installed carriage bolts.





- 1 Secure heat shield by clamping between air spring and upper bracket.



RIGHT SIDE INSTALLATION  
MUST INCLUDE HEAT SHIELD!

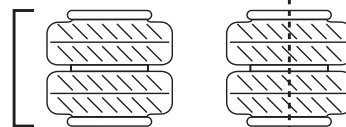
# Firestone

## AIRIDE

riderite.com

### 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™ equipped! Show it off with the supplied decal!



## NEED INSTALLATION HELP?

Email us at [rrtech@fsip.com](mailto:rrtech@fsip.com). Please include photos to help us better diagnose and understand any problems you may be experiencing.

**Firestone**  
Firestone Industrial Products

CONNECT WITH US



FirestoneIP



Firestone Ride-Rite