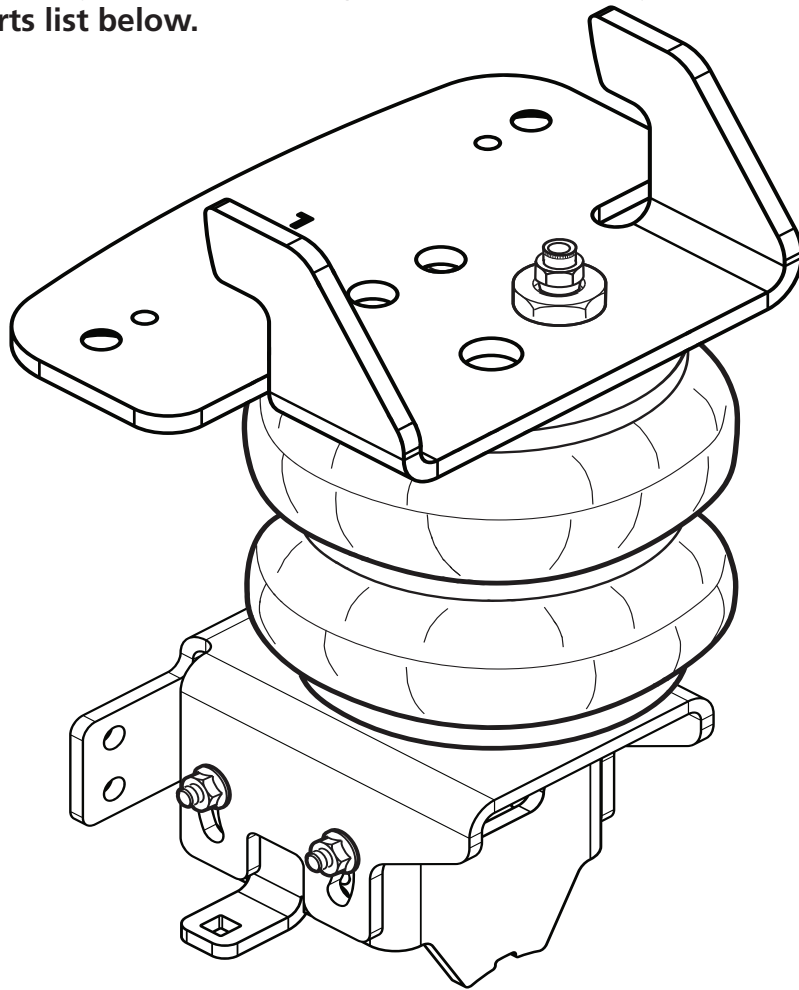




81223026 2017-2022 F350 4WD SRW (Not FX4)

Congratulations - your new TowPro Helper Springs are quality products capable of improving the handling and comfort of your vehicle. As with all products, proper installation is the key to obtaining all of the benefits your kit is capable of delivering. Please take a few minutes to read through the instructions to identify the components and learn where and how they are used. It is a good idea to start by comparing the parts in your kit with the parts list below.



! IMPORTANT

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



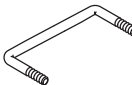
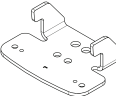


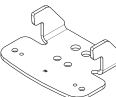


DO NOT INSTALL IF THE TRUCK HAS BEEN LIFTED AND THE STOCK JOUNCE BUMPER SPACERS ARE NOT ON THE VEHICLE. *This kit is to be used on a pickup truck only, and DOES NOT INCREASE YOUR VEHICLE'S MAXIMUM LOAD.*

REV1 2/11/2021








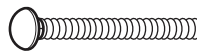
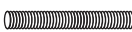
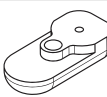




PARTS

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

MAIN KIT CONTENTS

PT # 6397	 x 2 AIR SPRING	PT # 5878	 x 2 LOWER AIR SPRING BRACKET	PT # 3077	 x 2 BAIL CLAMP
PT # 5872	 x 1 UPPER LEFT BRACKET	PT # 5916	 x 2 AXLE SUPPORT BRACKET	PT # 1004	 x 1 HEAT SHIELD
PT # 5873	 x 1 UPPER RIGHT BRACKET	PT # 5433	 x 2 AXLE STRAP BRACKET	PT # 9415	 x 1 AIR LINE TUBE (22 FEET)

A21-760-2620 HARDWARE PACK

PT # 3370	 x 4 3/8" - 16 x 3/4" FLAT HEAD SCREW	PT # 3067	 x 12 3/8" - 16 FLANGE LOCK NUT		
PT # 3033	 x 4 5/16" FLAT WASHER	PT # 3493	 x 12 3/8" FLAT WASHER	PT # 3055	 x 2 AIR FITTING
PT # 3069	 x 2 3/8" - 16 x 3/4" FLANGE BOLT	PT # 3332	 x 2 5/8" - 18 NYLON JAM NUT	PT # 3484	 x 4 3/8" - 16 x 7" CARRIAGE BOLT
PT # 3505	 x 2 10 - 24 x 2" THREADED ROD	PT # 3504	 x 4 3/8" - 16 FRAME NUT	PT # 9036	 x 6 RED NYLON TIE
PT # 3338	 x 8 3/8" - 16 x 1" HEX HEAD BOLT	PT # 3488	 x 4 3/8" - 16 NYLOCK NUTS	PT # 0899	 x 2 THERMAL SLEEVE

CONTENTS AND OVERVIEW

PAGE 4 REMOVE JOUNCE BUMPER & INSTALL FRAME NUTS

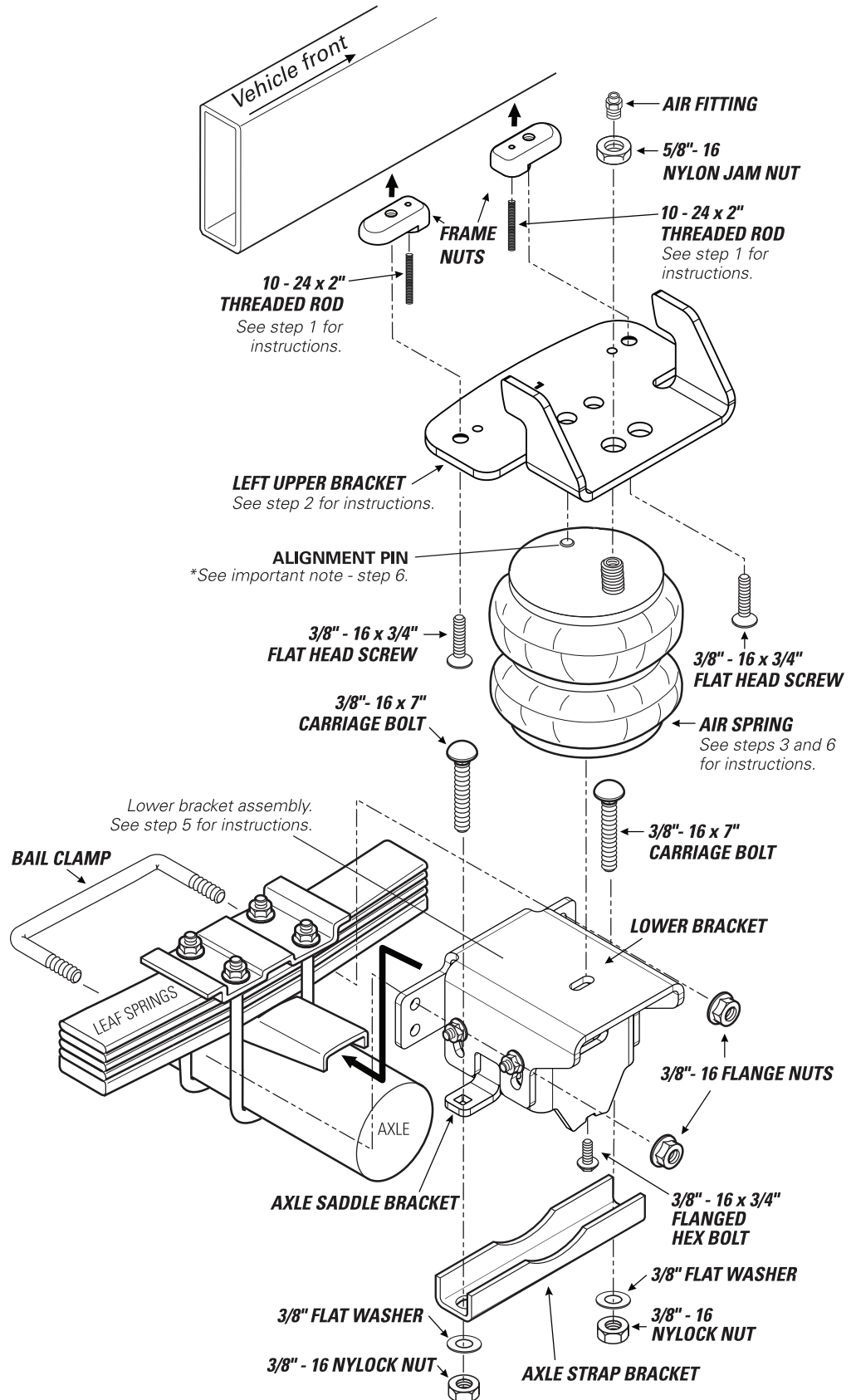
PAGE 5 INSTALL UPPER BRACKET & ASSEMBLE LOWER BRACKET TO AIR SPRING

PAGE 6 MEASURE DISTANCE BETWEEN TOP OF JOUNCE BUMPER STOP AND AXLE TO LOWER BRACKET & ASSEMBLE LOWER BRACKET ASSEMBLY

PAGE 7 INSTALL LOWER BRACKET ASSEMBLY AND AIR SPRING

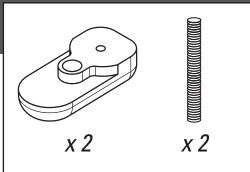
PAGE 8 SECURE LOWER BRACKET ASSEMBLY

PAGE 9 HEAT SHIELD & PASSENGER SIDE



REMOVE EXISTING JOUNCE BUMPER & INSTALL FRAME NUTS

1

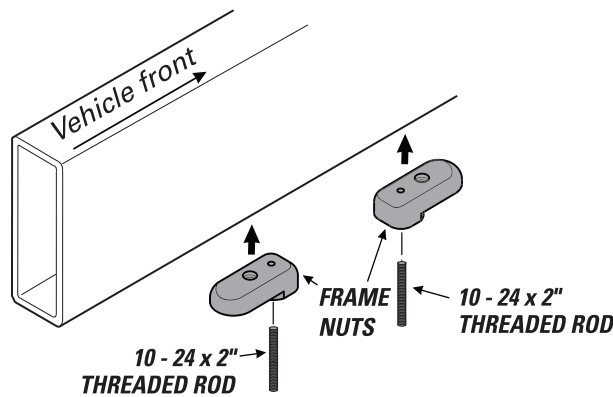


START THE INSTALLATION ON THE LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD.

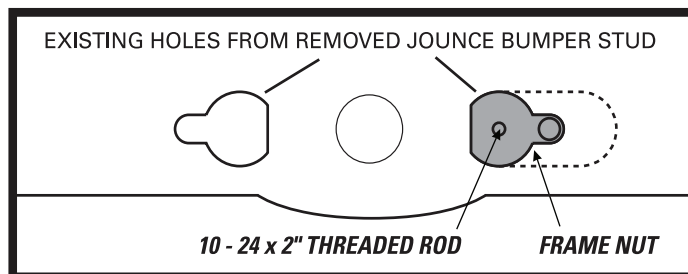
1 Remove the jounce bumper and the two studs holding it on. The two studs can be pried out with a flat head screw driver.

2 Thread the 10 - 24 x 2" threaded rods onto the frame nuts. These act as a grip to assist in installation.

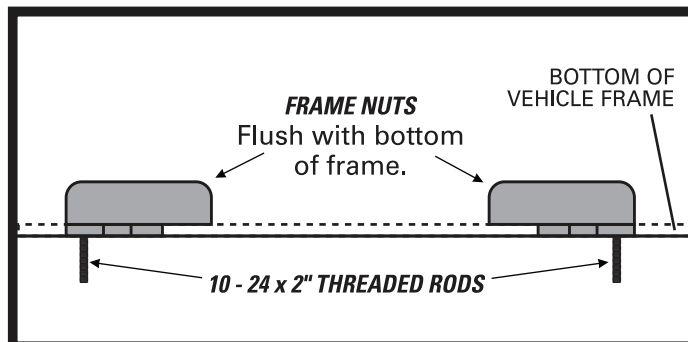
3 Insert the frame nuts into the hole in the frame where you removed the jounce bumper studs, seating the frame nuts so they are flush with the vehicle frame.



VIEW FROM BELOW



VIEW FROM SIDE



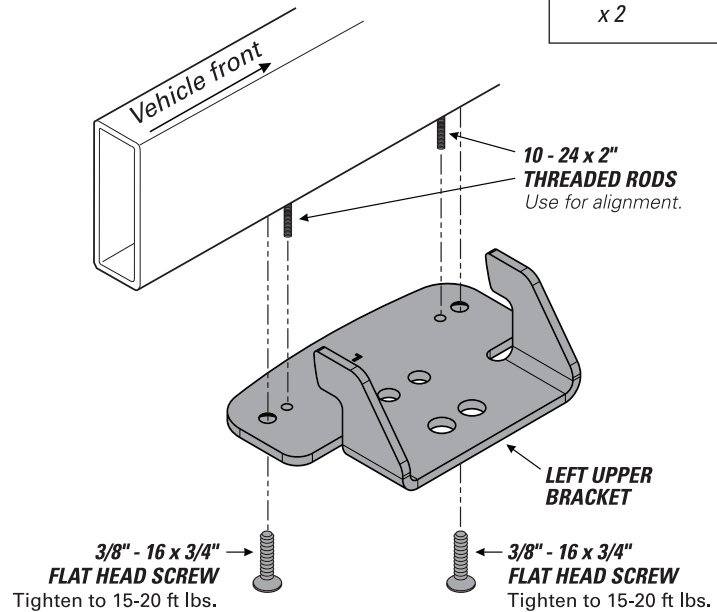
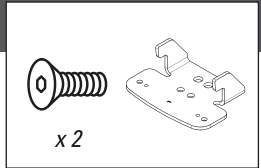
2

INSTALL UPPER BRACKET

1 Using the threaded rods as guides, slide the upper bracket into place, secure against the bottom of the vehicle frame.

2 Fasten upper bracket to the frame using the flat head screws, as shown.

3 Remove the threaded rods and save them for installation on the other side of the vehicle.

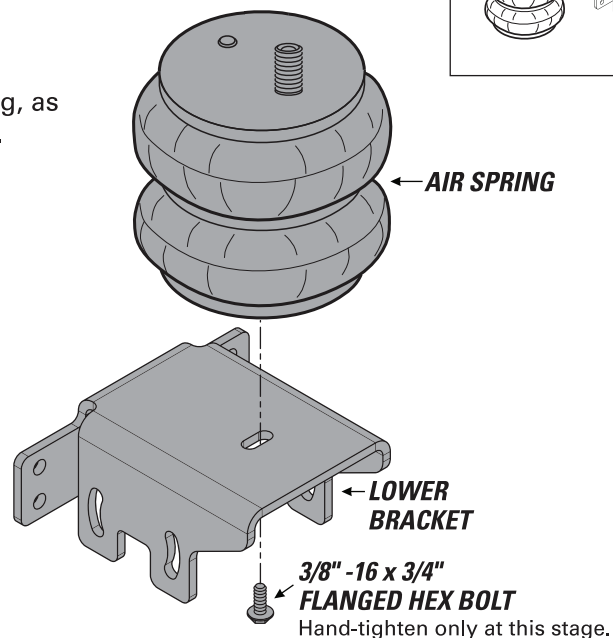
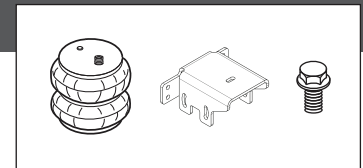


REMOVE THREADED RODS AFTER SECURING THE UPPER BRACKET. FAILURE TO DO SO COULD CAUSE THEM TO PUNCTURE THE AIR SPRING, RESULTING IN AN AIR SPRING FAILURE THAT IS **NOT WARRANTABLE**.

3

ASSEMBLE LOWER BRACKET TO AIR SPRING

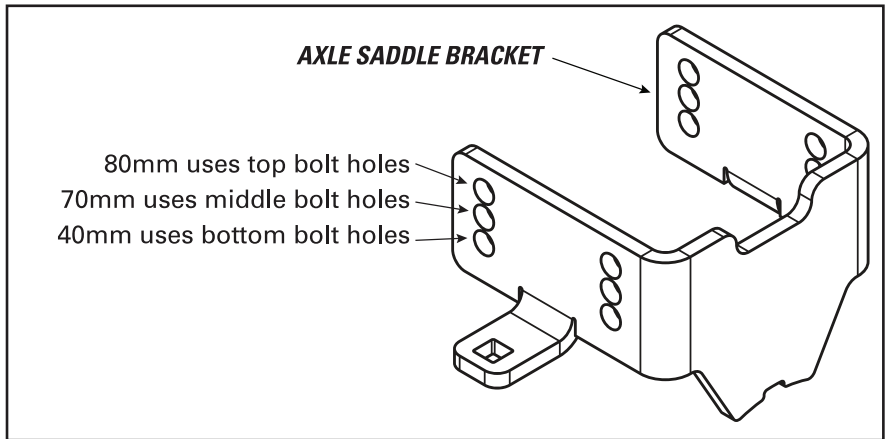
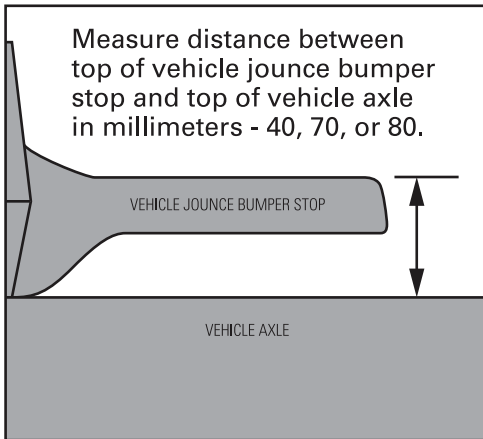
Attach the lower bracket to the air spring, as shown. **Hand-tighten only at this point.**



MEASURE DISTANCE BETWEEN TOP OF JOUNCE BUMPER STOP AND AXLE

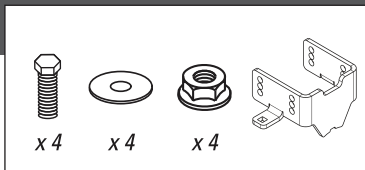
4

Take the measurement shown below and note for step 5.



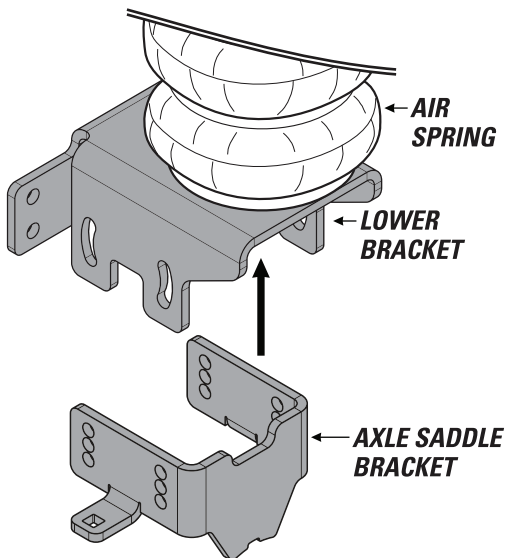
ASSEMBLE LOWER BRACKET ASSEMBLY

5

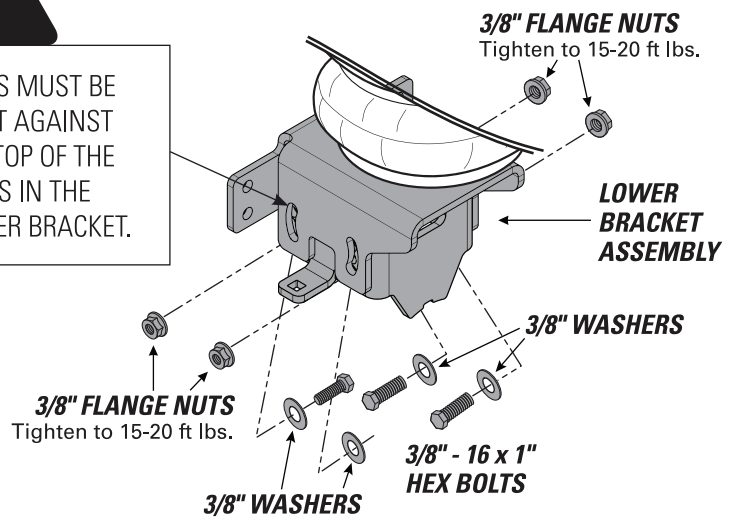


1 Using the holes selected in step 4, assemble the lower bracket and axle saddle bracket.

2 Assure that the bolts are tight against the top of the slots in the lower bracket. Fully-tighten all fasteners.



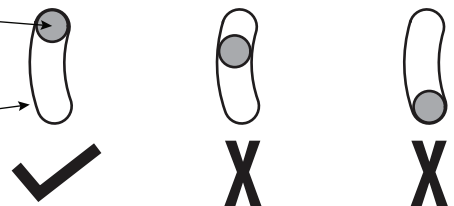
BOLTS MUST BE TIGHT AGAINST THE TOP OF THE SLOTS IN THE LOWER BRACKET.



HEX BOLT ALIGNMENT

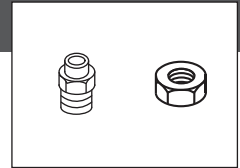
3/8" - 16 x 1" HEX BOLT
Align all 4 bolts to top of slot in lower bracket.

LOWER BRACKET SLOTS



6

INSTALL LOWER BRACKET ASSEMBLY & AIR SPRING



1 Fit the assembly into place. Assure the lower bracket tabs are tight against the vehicle leaf springs.

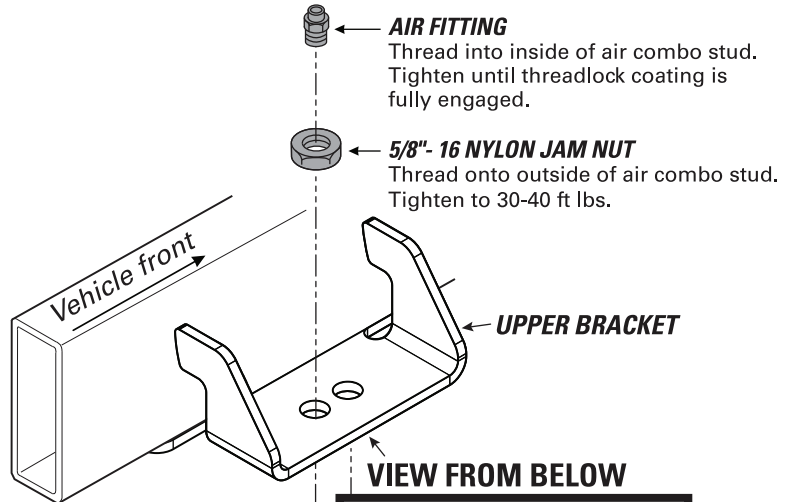


INSTALLING THE RIGHT SIDE? REMEMBER TO INSTALL THE HEAT SHIELD IN STEP 8 FIRST!

2 Rotate the air spring until the combo stud fits in the rear alignment hole in the upper bracket and the air spring alignment pin is fully-seated into the front alignment hole.

3 Fully tighten the top of the air spring to the upper bracket.

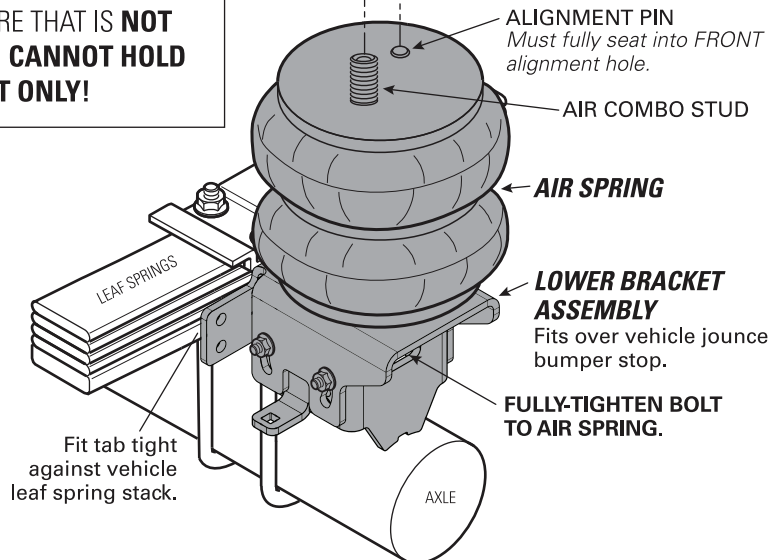
4 Assuring the bottom of the air spring does not twist, fully-tighten the bolt to the bottom of the air spring.

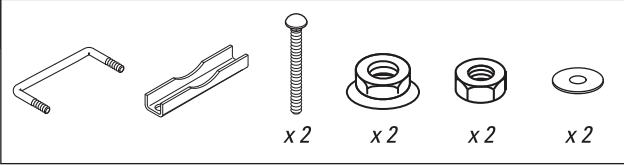


ALIGNMENT PIN ON AIR SPRINGS MUST BE INSTALLED TO FULLY SEAT INTO THE FRONT ALIGNMENT HOLE IN THE UPPER BRACKET. FAILURE TO DO SO WILL CAUSE IT TO BE PUSHED INTO THE BEAD PLATE, CREATING AN AIR LEAK, AND RESULTING IN AN AIR SPRING FAILURE THAT IS **NOT WARRANTABLE. THE ALIGNMENT PIN CANNOT HOLD 2,500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



DID YOU TIGHTEN THE BOLT TO THE BOTTOM OF THE AIR SPRING? **COMPLETE THIS BEFORE MOVING TO THE NEXT STEP!**



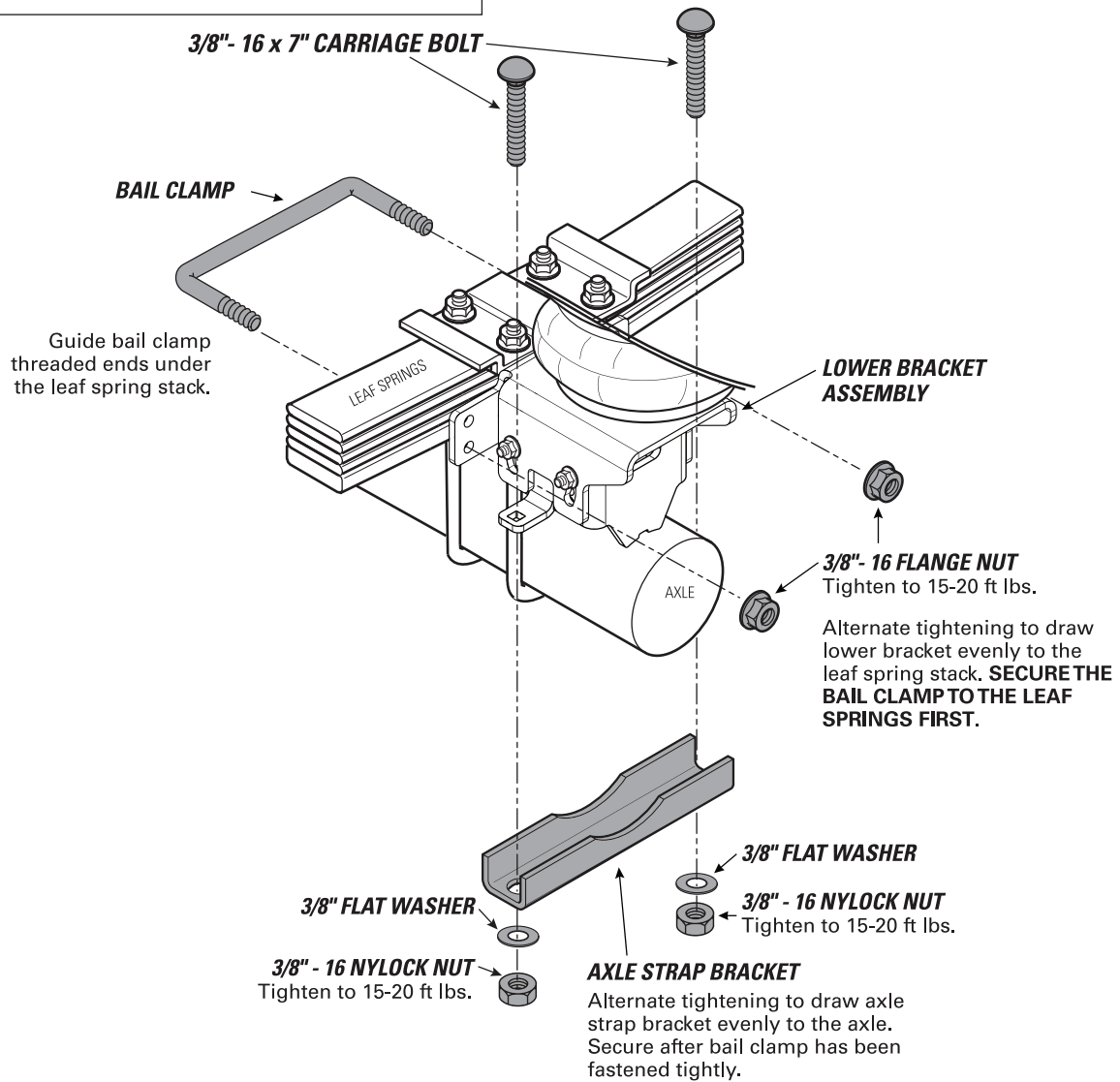


USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



1 Position the lower bracket assembly so that the axle tab rests on top of the axle. **Assure that the vehicle brake line is not pinched between the axle saddle bracket axle tab and vehicle axle.**

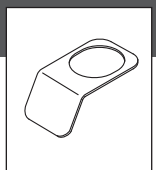
2 Install the bail clamp and the axle strap bracket, as shown.



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.

8

INSTALL RIGHT SIDE WITH HEAT SHIELD



! RIGHT SIDE INSTALLATION MUST INCLUDE HEAT SHIELD!

