LOGIQ™

AIR SUSPENSION SOLUTIONS

Installation Instructions *Rev.01*

AIR SPRING KIT (COIL REPLACEMENT)

89-52220 TOYOTA TUNDRA (2022+)

WARNING! – READ BEFORE USE

READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE INSTALLATION.

INSTALLATION BY A CERTIFIED PROFESSIONAL MECHANIC IS HIGHLY RECOMMENDED.

LOGIQ™ IS NOT RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.

20 PSI MINIMUM — **BEFORE LIFTING TRUCK AIR SPRINGS MUST BE INFLATED**

150 PSI MAX AIR SPRING PRESSURE

NEVER EXCEED MANUFACTURER'S MAXIMUM PAYLOAD OR GVWR

CALIFORNIA RESIDENTS - PROP 65

WARNING: This product can expose you to chemicals including Di(2-ethylhexyl) phthalate (DEHP), which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov/product.

WARRANTY

LOGIQ™ provides a limited lifetime warranty to the original purchaser of products, that the product be free from defects in workmanship and materials when used on cars and trucks as specified by LOGIQ™ and under normal operating conditions. This warranty is subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy that is available at logiqair.com/warranty. Air compressors are a wearing component and are covered by a 2-year warranty from the date of purchase. The warranty does not provide coverage for abuse, operation in a manner not consistent with the product's design, or damage resulting from exposure to the elements.

⚠ WARNING & DISCLAIMERS

By installing this product you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

Installation Instructions
AIR SPRING KIT (COIL REPLACEMENT)
89-52220 TOYOTA TUNDRA (2022+)

TOOLS REQUIRED
JACK & JACK STANDS
SAFETY GLASSES
TORQUE WRENCH
SOCKET DRIVER
AIR LINE CUTTER (OR RAZOR BLADE)
12MM WRENCH (X2)
5/16" DRILL BIT & DRILL
19MM SOCKET
17MM SOCKET
12MM SOCKET
9/16" SOCKET & WRENCH
5/32" ALLEN KEY

APPLICATION NOTES
TRUCK COMPATIBILITY
TRUCKS EQUIPPED WITH FACTORY AIR SUSPENSION REQUIRE ADDITIONAL ADAPTER KIT 89-52220-AET
IF TRUCK IS LIFTED 1"-3"IN THE REAR, REMOVE THE REAR SPACERS BEFORE INSTALLING THE AIR SPRINGS
IF TRUCK IS LIFTED MORE THAN 3" IN THE REAR, ADD SPACER KIT 89-52220-3
IF YOUR LIFT INCLUDES BUMPSTOP SPACERS, THOSE MUST BE RETAINED
5TH WHEEL COMPATIBILITY
ALL HITCHES ARE COMPATIBLE

QTY	PARTS INCLUDED
1	DRIVER SIDE AIR SPRING ASSEMBLY
1	PASSENGER SIDE AIR SPRING ASSEMBLY
1	HARDWARE KIT
1	MANUAL INFLATION KIT
1	HEAT WRAP KIT
	HARDWARE KIT CONTENTS
2	SWAY BAR BRACKET
2	3/8"-16 NYLON LOCKING NUT
2	3/8" FLAT WASHER
2	1/4"-20 X 5/8" BUTTON HEAD CAP SCREW
2	1/4" FLAT WASHER
1	2ML RED THREADLOCKER PACKET
	MANUAL INFLATION KIT CONTENTS
16	8" ZIP TIES
2	INFLATION VALVE TO 1/4" PTC FITTING
1	16' ROLL 1/4" AIR LINE
	HEAT WRAP KIT CONTENTS
1	25' ROLL HEAT WRAP
2	HOSE CLAMP

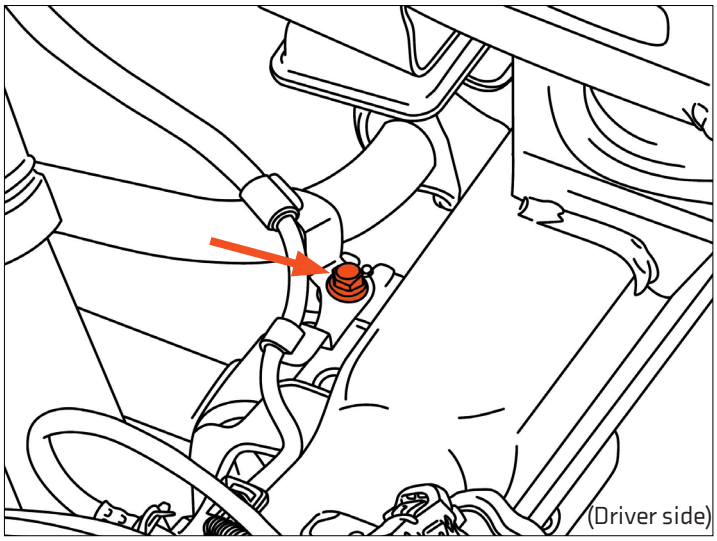
STEP 1 PREPARE TRUCK

Note original ride height measurement from center of rear fender arch to ground.

Safely lift truck and support with jack stands under the frame.

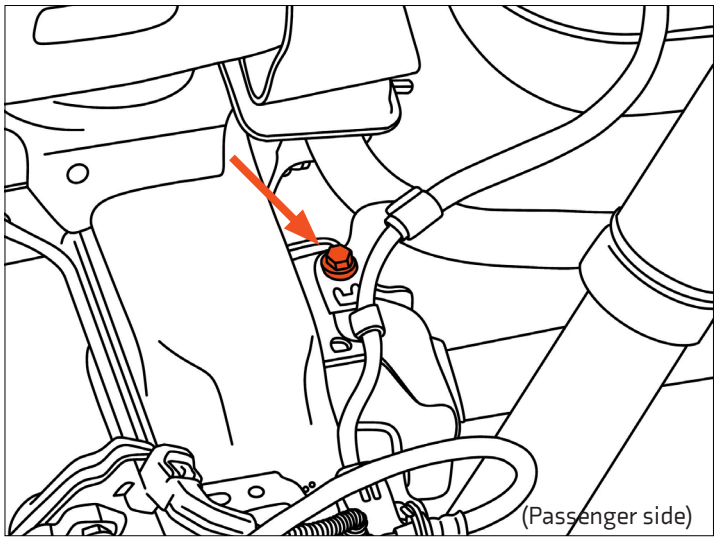
Remove rear wheels.

STEP 2 REMOVE FACTORY COIL SPRINGS

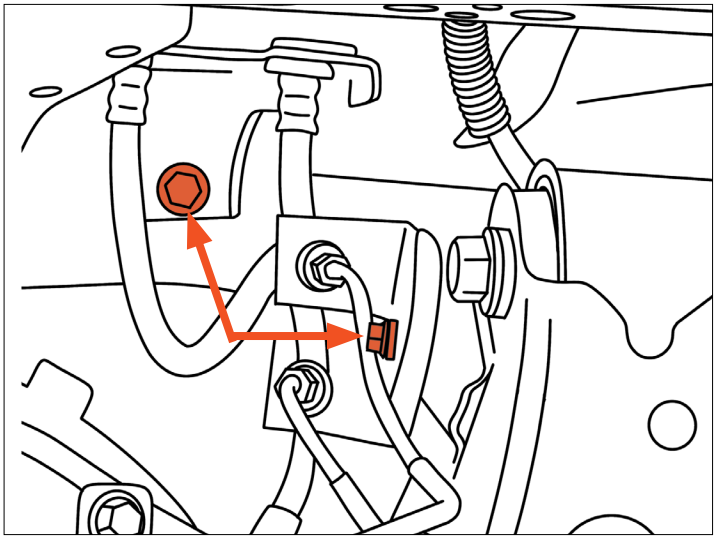


Un-bolt the indicated E-brake line bracket from the axle using a 12MM socket.

Retain the factory hardware.



Repeat for passenger side.



Un-bolt both of the indicated brake line brackets from the axle and crossmember using a 12MM socket.

Retain the factory hardware.

Un-bolt the upper sway bar endlink bolt on each side using a 17MM socket.

Un-bolt the axle mounted side of the panhard bar using a 19MM socket.

Remove the upper shock nut on each side using a 19MM socket or wrench.

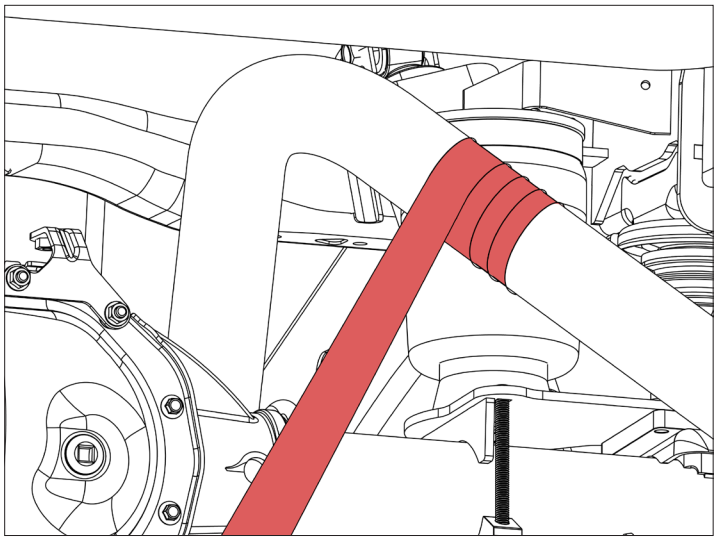
Droop the suspension.

Now there should be enough room to remove the factory coil springs and isolators. Remove the coil springs and isolators.

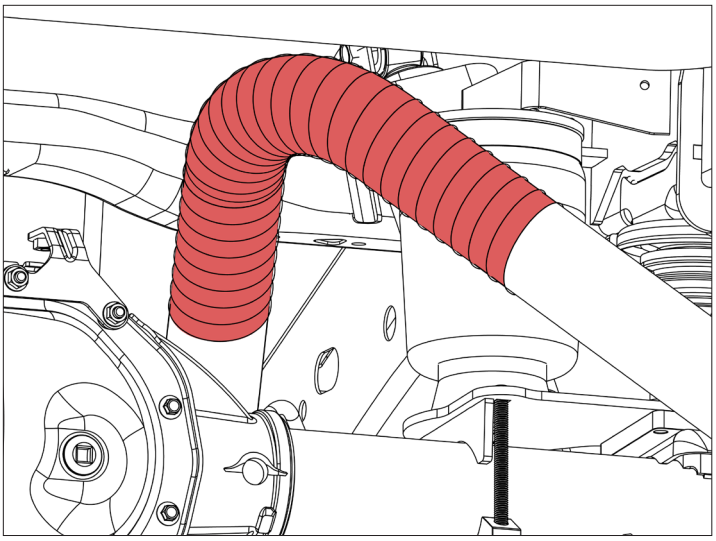
Check the spring perches to ensure all pieces have been removed and there is no debris in the mounting areas before proceeding.

NOTE: If you have the factory 1.5" lift kit, you must remove the rear coil spring spacers from the upper spring perches before proceeding.

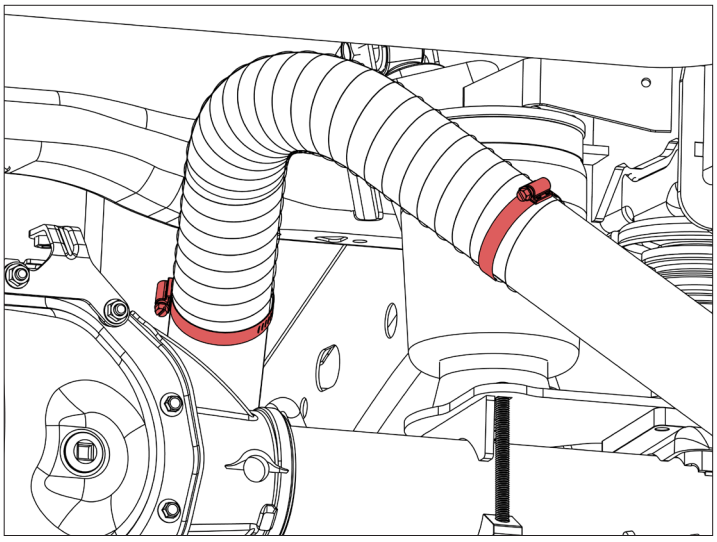
STEP 3 APPLY HEAT WRAP



Begin roughly 12 inches behind where the air spring will be mounted and wrap toward the front of the vehicle.



Ensure you have overlap that is about half the thickness of the heat wrap like shown.

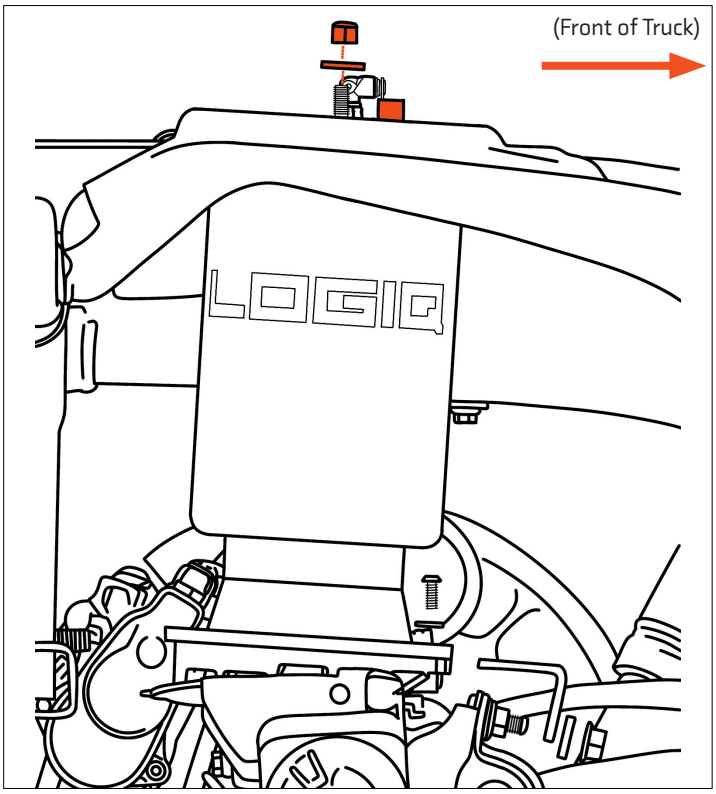


Once the **whole roll** has been wrapped onto the exhaust, attach the provided hose clamps to each end of the wrap as shown.

Ensure the wrap extends at-least 12 inches in front and behind the air spring (more is better if there is enough wrap).

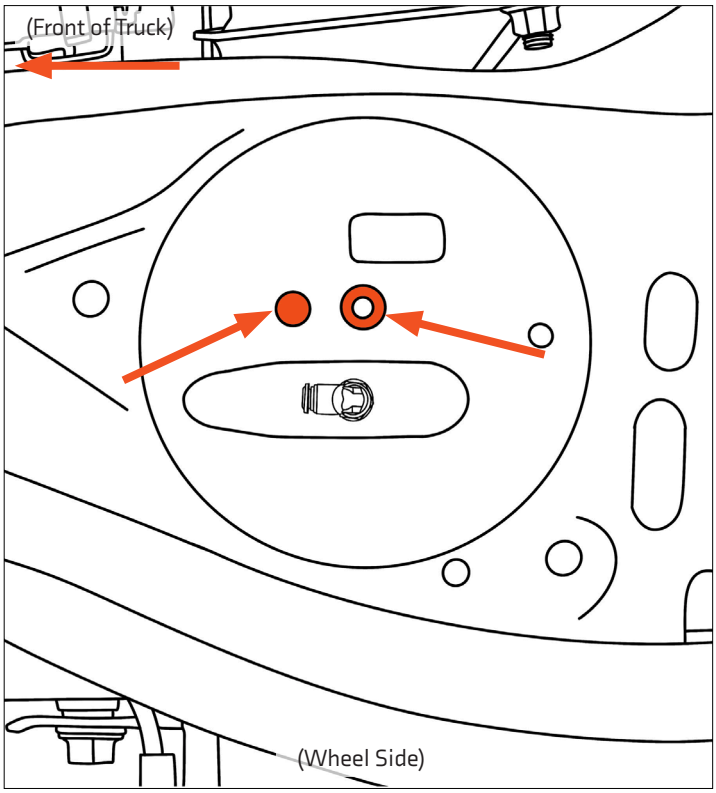
Trim any excess clamp stick-out with a pair of metal snips.

STEP 4 ATTACH DRIVER SIDE AIR SPRING (TOP CAP)



Driver side air spring will be installed in the orientation shown.

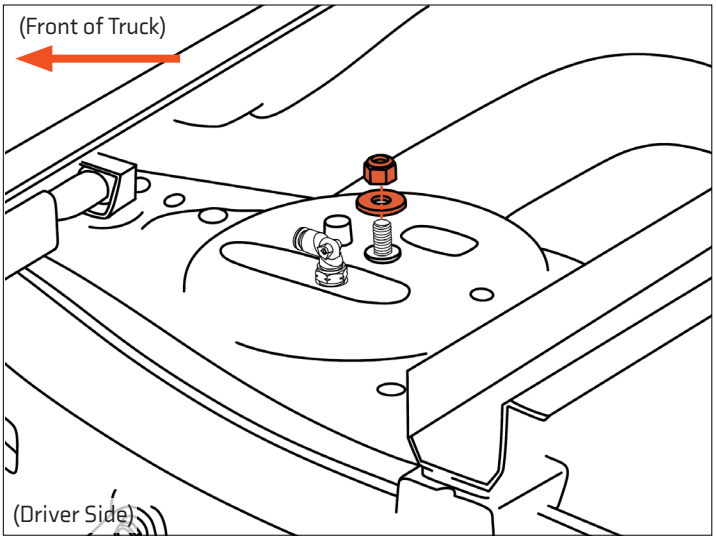
To install the air spring, start with the top cap (highlighted).



Align the air spring top cap with the upper perch holes as shown.

Ensure the locating dowel goes into the front-most hole and the locating washer on the stud seats fully in the rear-most hole.

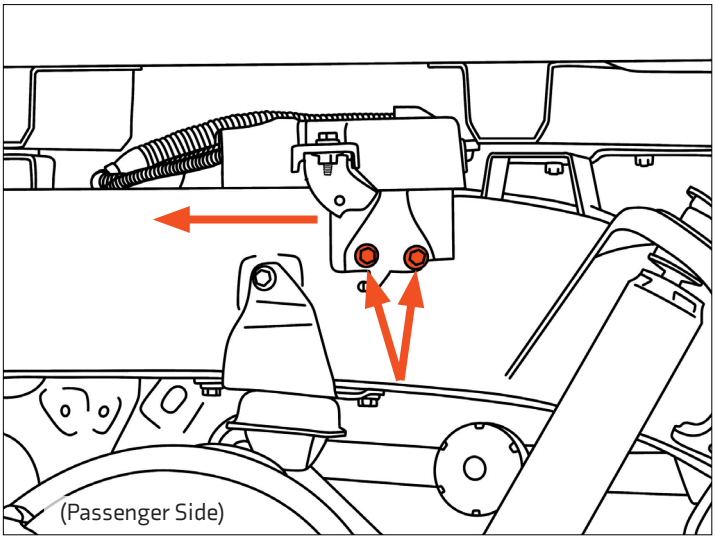
The air fitting should be lined up with the large slot as shown.



Once aligned properly, attach the top cap using the provided 3/8" washer and nut.

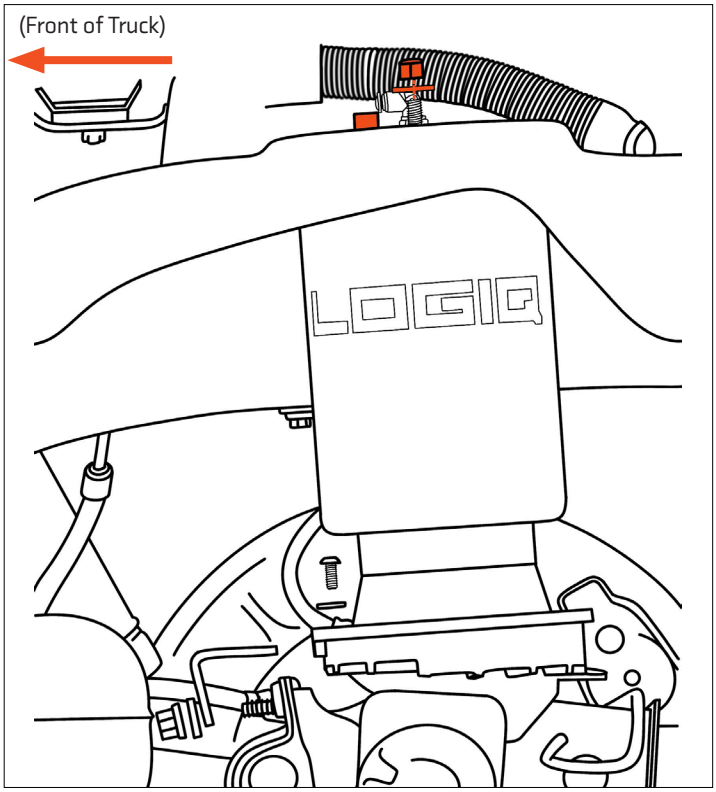
Snug the nut to ensure the stud locating washer stays seated when attaching the piston.

STEP 5 ATTACH PASSENGER SIDE AIR SPRING (TOP CAP)

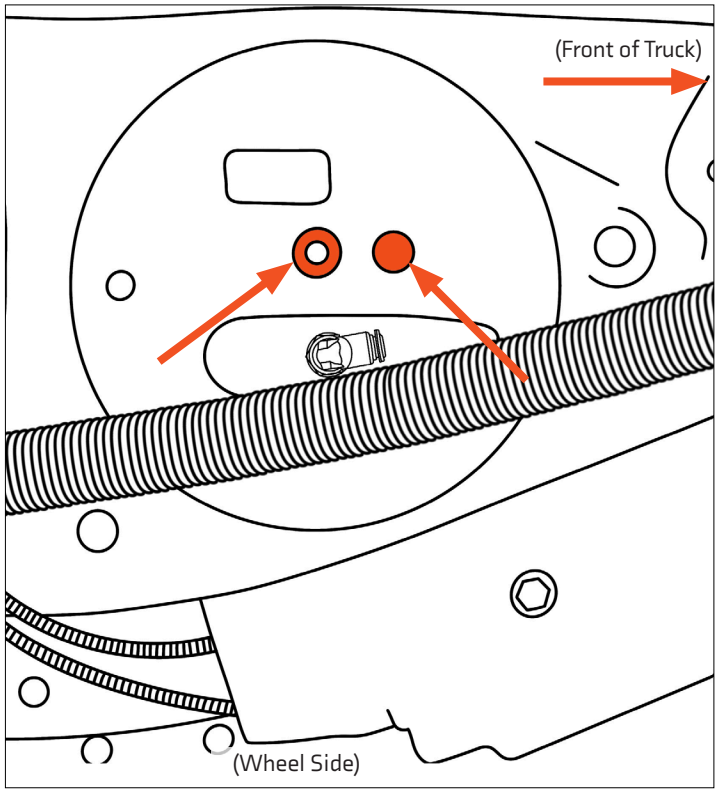


Before starting the passenger side installation, remove the two bolts holding the fuel pump ECU bracket to the frame using a 12MM socket. Retain the factory hardware.

Move the assembly over to the left enough so you have a better view of the upper spring perch.



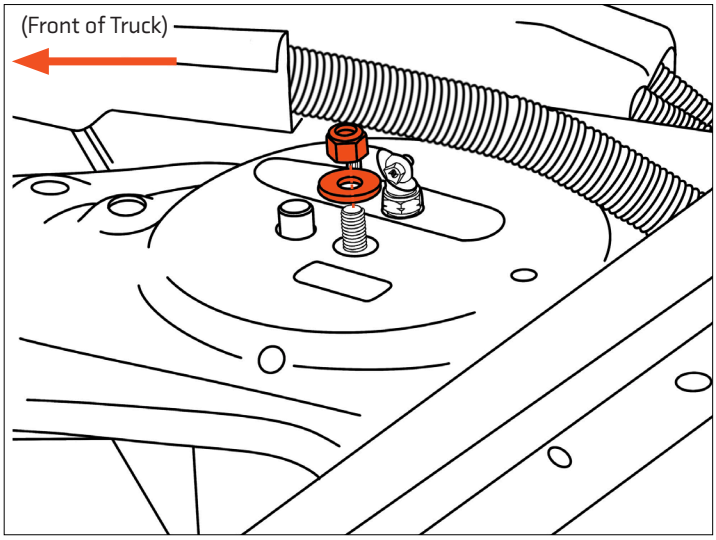
Passenger side air spring will be installed in the orientation shown.



Align the air spring top cap with the upper perch holes as shown.

Ensure the locating dowel goes into the front-most hole and the locating washer on the stud seats fully in the rear-most hole.

The air fitting should be lined up with the large slot as shown.



Once aligned properly, attach the top cap using the provided 3/8" washer and nut.

Snug the nut to ensure the stud locating washer stays seated when attaching the piston.

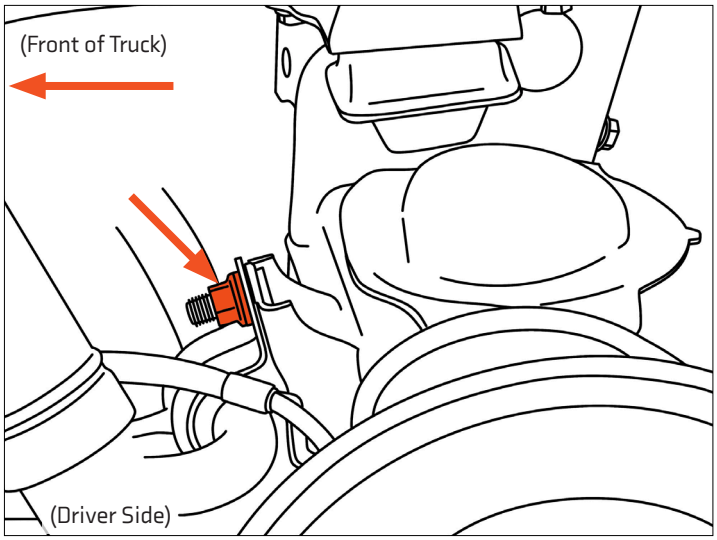
STEP 6 AIR LINE ROUTING

When used with an on-board air management system, refer to the on-board air management system installation instructions before routing the air lines.

When not using an on-board air management system, mount inflation valves at desired location using 5/16" drill bit.

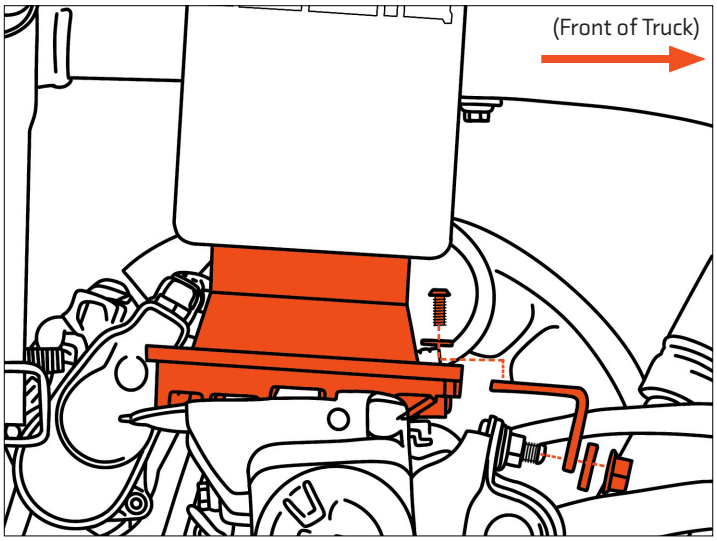
Route air line from each inflation valve to each air fitting on both of the air spring assemblies. **Avoid hot exhaust and sharp edges. Cut air line square and free from burrs with air line cutter or razor blade!**

STEP 7 ATTACH DRIVER SIDE AIR SPRING (PISTON)



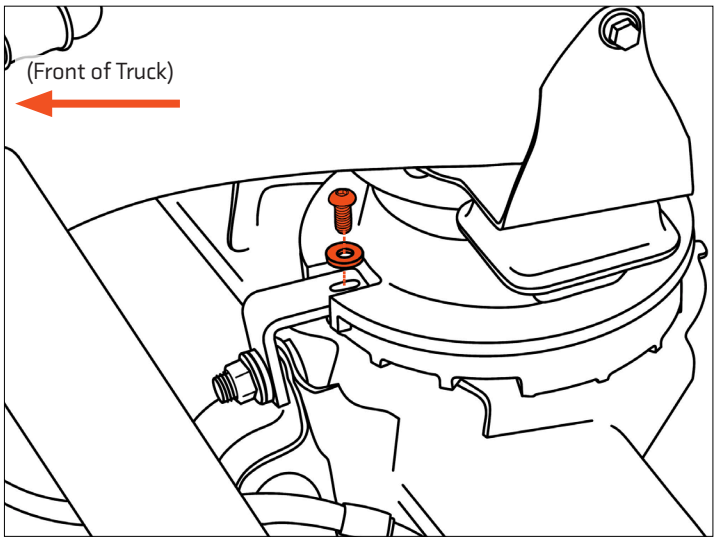
Remove the indicated axle sway bar mount nut and washer using a 17MM socket.

Retain the factory hardware.



Inflate the air spring to 5 PSI to extend the piston down to reach the axle pearch.

The air spring piston will be attached to the lower perch on the axle with the provided sheet metal bracket and 1/4" screw, as shown.

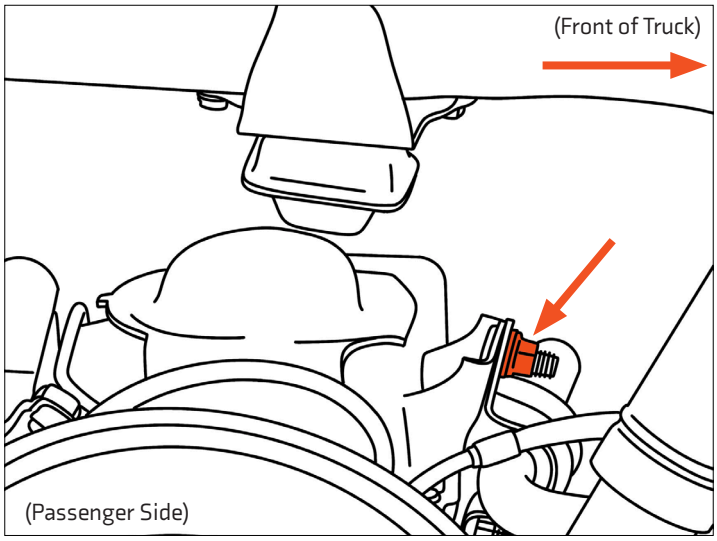


Slide the provided sheet metal sway bar bracket onto the sway bar mount stud and re-install the factory nut & washer.

Ensure the bracket is aligned in the slot on the air spring piston. Snug the factory nut but do not tighten.

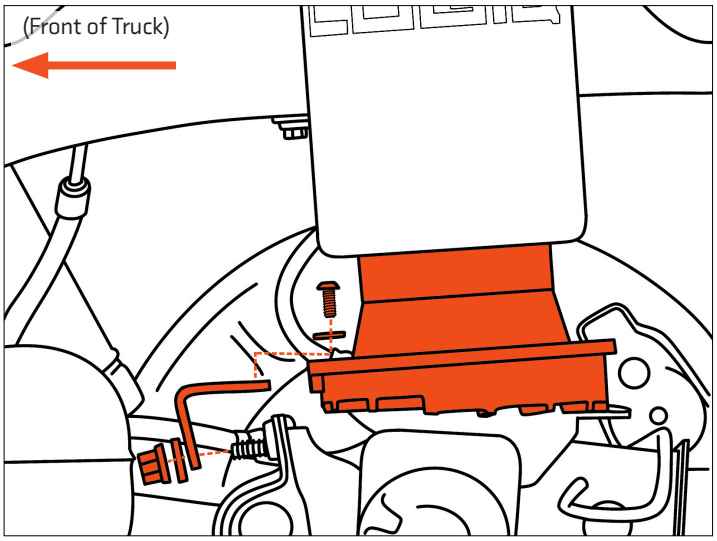
Install the provided 1/4" screw and flat washer with some of the provided threadlocker to secure the bracket to the air spring piston.

STEP 8 ATTACH PASSENGER SIDE AIR SPRING (PISTON)



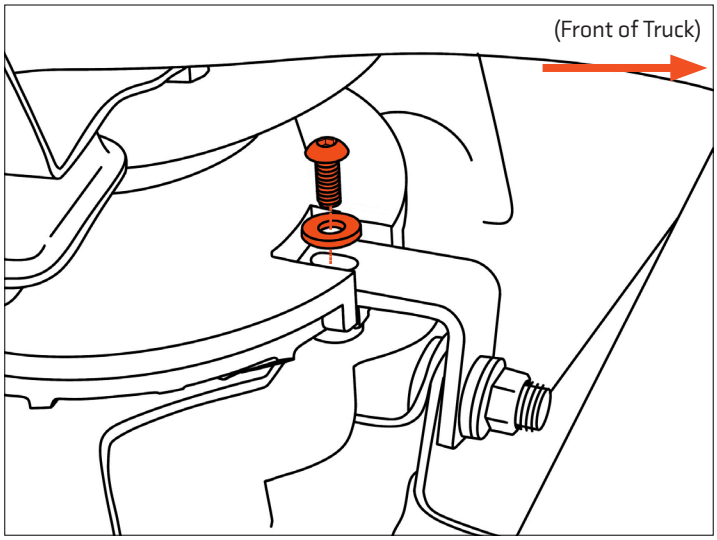
Remove the indicated axle sway bar mount nut and washer using a 17MM socket.

Retain the factory hardware.



Inflate the air spring to 5 PSI to extend the piston down so it reaches the axle.

The air spring piston will be attached to the lower perch on the axle with the provided sheet metal bracket and 1/4" screw, as shown.

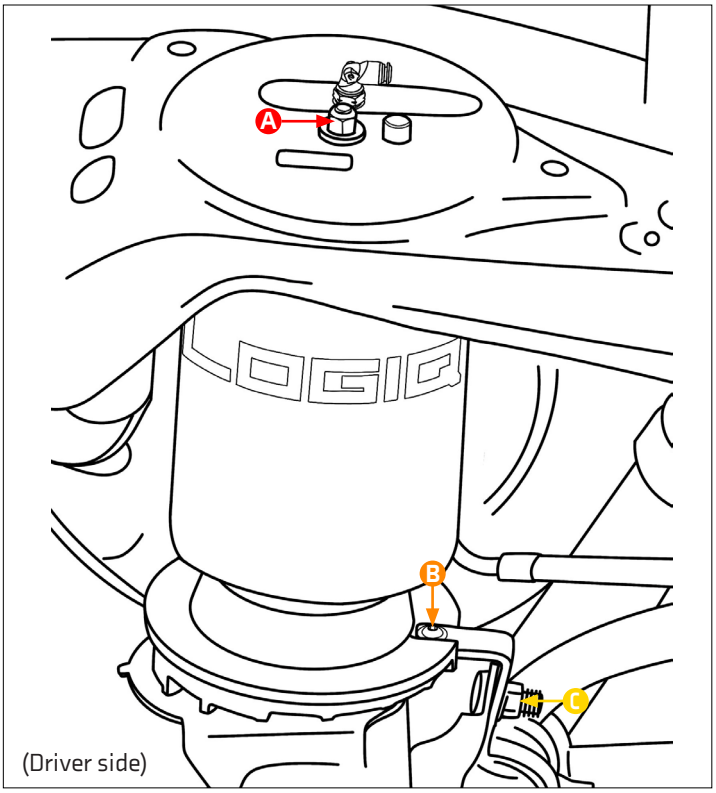


Slide the provided sheet metal sway bar bracket onto the sway bar mount stud and re-install the factory nut & washer.

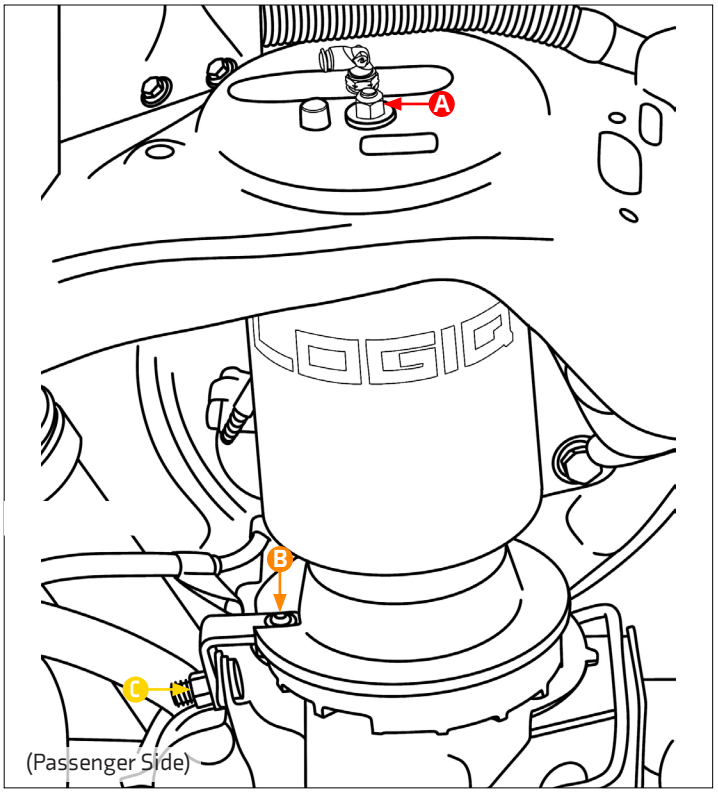
Ensure the bracket is aligned in the slot on the air spring piston. Snug the factory nut but do not tighten.

Install the provided 1/4" screw and flat washer with some of the provided threadlocker to secure the bracket to the air spring piston.

STEP 9 TORQUE HARDWARE



(Driver side)



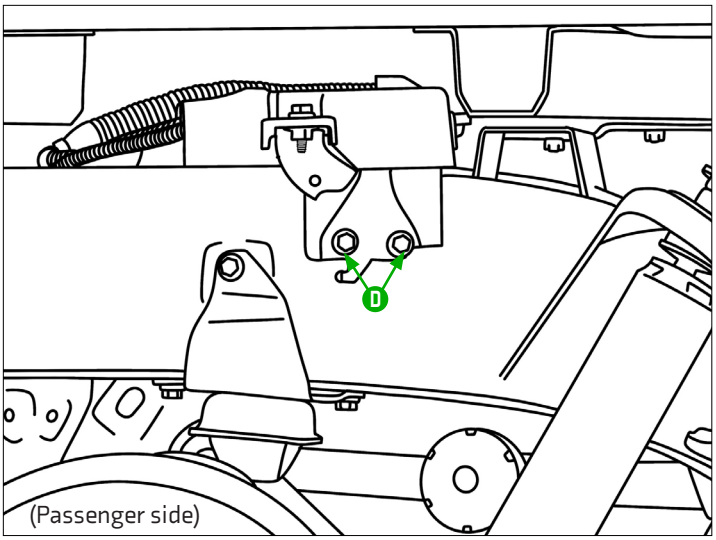
(Passenger Side)

A Torque the 3/8" nuts to **10 FT. LB.** using a 9/16" socket.

B Torque the 1/4" piston screws to **84 IN. LB.** using a 5/32" allen.

C Torque the sway bar nut to **64 FT. LB.** using a 17mm socket.

D Re-install factory bolts and torque the fuel pump ECU bracket to **22 FT. LB.**



(Passenger side)

Reinstall all factory suspension hardware and torque to factory spec.

Panhard: 103 FT. LB.

Shock: 37 FT. LB.

Sway Bar Endlink: 55 FT. LB.

Brake Line Brackets: 20 FT. LB.

STEP 10 FINAL SAFETY CHECKS

Check for leaks at fittings with soapy water.

Verify all fasteners are torqued properly.

Use a tape measure and inflate the air springs until the ride height matches the original ride height measurement from center of rear fender arch to ground.

Note – This will be your unloaded air spring pressure setting and can be varied from 0" to +3" based on user preference.

⚠ WARNING & DISCLAIMERS CONTINUED

Safety Warnings

MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.

Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control during abrupt maneuvers.

Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death.

Driver and passengers must **ALWAYS** wear seat belts, avoid quick sharp turns and other sudden maneuvers. LOGIQ™ does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your vehicle under the influence of alcohol or drugs.

Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.

It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lifting of their vehicle before the purchase and installation of any LOGIQ™ products.

Raised vehicles have altered viewing angles than stock vehicles. This can lead to larger or different blind spots than the driver is accustomed. It is the responsibility of the driver to be aware of this and check their surroundings at all times while the vehicle is in motion and immediately prior to operating vehicle. Failure to do so can lead to damages, injury, or death.

Installation Warning

All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks.

Use caution during all disassembly and assembly steps to ensure suspension components are not over extended causing damage to any vehicle components and parts included in this kit.

Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.

LOGIQ™ recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components.

Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.

Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

Larger tire and wheel combinations may increase leverage on suspension, steering, and related components.

Due to payload options and initial ride height variances, the amount of lift/lower is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

⚠ WARNING & DISCLAIMERS

SAEJ2492 Warning

By installing this product, you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

Headlamp Warning

A lifted or lowered vehicle may have different headlight aim performance. LOGIQ™ recommends marking and recording the headlight beam position before kit installation and then adjusting, if necessary, the headlamps to the same height settings after kit installation. Set the vehicle on a level surface 10' to 15' from a solid wall or garage door. (This is a general distance with some manufacturers requiring different distances.) Note the top height of the low beam's bright spot, the top of the most intense part of the beam, for driver and passenger side. Height may vary from side to side. Repeat this procedure and adjust after lift kit is installed. Adjust if the aim is off by turning the adjusters gradually (a quarter of a turn) and looking to see where the new alignment falls. It may be easier to block one headlamp while adjusting the other. Consult the owner operation manual for procedures to adjust headlights - many automakers offer headlight aiming specs. Some states have their own specifications when it comes to headlight aim, so it's best to follow those rules when aligning headlights.

FAILURE TO PERFORM THE POST INSPECTION CHECKS MAY RESULT IN VEHICLE COMPONENT DAMAGE AND/OR PERSONAL INJURY OR DEATH TO THE DRIVER AND/OR OTHERS.

Final Checks & Adjustments

Once the vehicle is lowered to the ground, check all parts which have rubber or urethane components to ensure proper torque. Torque lug nuts to the wheel manufacturer specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes hoses and ABS lines for adequate slack at full extension, adjust as necessary.

RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THEREAFTER.

Vehicle Handling Warning

Increasing the height of your vehicle raises the center of gravity and can affect stability and control. Use caution on turns and when making steering corrections.

Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

Wheel Alignment/Headlamp Adjustment

It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is recommended that your vehicle alignment be checked after any off-road driving.

In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment. If the vehicle is equipped with active or passive safety/collision monitoring and/or avoidance systems including, but not limited to, camera- or radar-based systems, check and adjust your vehicle's systems for proper aim and function.