

Installation Manual



10328 KIT

Toyota Tacoma (4WD)*+ & (2WD) Prerunner*

*** This kit may require the use of additional spacers.
See "Important Vehicle Fitment Guide" on page 2 for fitment details.**

Use the most advanced air springs on the market to eliminate your vehicle's sag, sway and bottoming out. This heavy duty air suspension kit levels your truck's stance while providing added support for an overall smooth and safe ride.



WARNING: This product can expose you to the chemical Hexavalent Chromate, 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**

IMPORTANT

This air suspension kit will not increase the GVWR (*Gross Vehicle Weight Rating*), as the GVWR is determined by the vehicle manufacturer. **Do not exceed the maximum capacity listed by the vehicle manufacturer.**

Safety Warning!

Serious personal injury or death may result from an air spring failure or accident due to improper installation or air spring pressure operation or maintenance. Please read and abide the instructions, safety recommendations and maintenance suggestions throughout this manual.

Safety Warning!

Inflating an unsecured air spring is dangerous. If it bursts, it could be hurled into the air with explosive force resulting in serious personal injury or death. Never inflate an air spring unless it is secured to the vehicle.

Safety Warning!

Removing and replacing air springs can be dangerous. This is only a job for a qualified service professional. Never perform air spring service procedures without proper training, tools, and equipment.

IMPORTANT VEHICLE FITMENT GUIDE

- While this kit is designed to fit Toyota Tacoma 4WD vehicles, additional [Tacoma Spacer Kits](#) can be purchased to accommodate vehicles with up to a 3" lift. Refer to the [Air Spring Application Guide](#) for applicable model years.

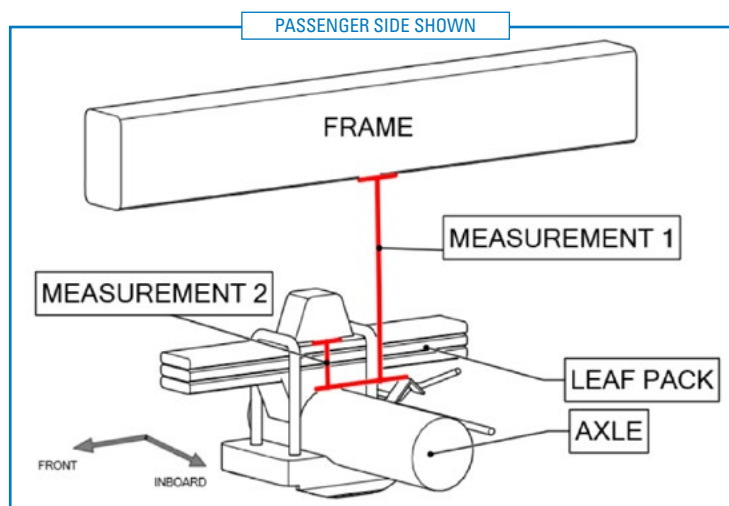
IMPORTANT: Your vehicle must have a jounce bumper that is stock, or equivalent to the stock jounce bumper

IMPORTANT: Certain model years of this generation of Toyota Tacoma pickup trucks were issued a manufacturer recall affecting the leaf spring assemblies. This Air Suspension Kit was designed to fit vehicles either unaffected by the recall or those that have had the leaf spring assemblies replaced by Toyota. If you are unsure of whether your vehicle was affected/repared, contact your local Toyota dealership

- Record the following measurements and compare them to the table to determine if this kit will fit your vehicle:

Measurement 1 = _____

Measurement 2 = _____



Measurement 1 (Frame to Axle)	Measurement 2 (Leaf Pack to Axle)	Additional Kit Requirements
0" – 8"	N/A	This kit cannot be installed
8" – 9"	2" or greater	No additional requirements
9" – 10"	3" or greater	10329 spacer kit required
10" – 11"	4" or greater	10330 spacer kit required
11" – 12"	5" or greater	10331 spacer kit required
12"+	N/A	This kit cannot be installed

Kit Contents

A	Air Spring	(2)	X	Split Loom	(18")
B	Upper Bracket	(2)	Y	Heat Shield	(1)
C	Lower Bracket	(2)	Z	Hose Clamps	(2)
D	Lower Bracket Support	(2)	A1	Installation Manual	(1)
E	2 ½" Air Spring Extension	(2)	A2	Warranty Sheet & Card	(1)
F	Frame Strap	(2)	A3	AMP Decal	(1)
G	Axle Strap	(2)	A4	Replacement Air Spring Sheet & Decal	(1)
H	3/8" Flat Washer	(12)			
I	3/8" Nyloc Nut	(4)			
J	3/4" Jam Nut	(2)			
K	3/8" – 16 X 6" Hex Head Cap Screw	(8)			
L	3/8" – 16 X 7" Carriage Bolt	(4)			
M	1/2" Flat Washer	(6)			
N	1/2" Serrated Flange Nut	(4)			
O	1/2" – 13 X 1.375" Hex Head Cap Screw	(4)			
P	1/2" – 13 X 3.5" Hex Head Cap Screw	(2)			
Q	M8 x 1.25 x 50mm Hex Head Cap Screw	(1)			
R	1/8" Push to Connect Air Fitting	(2)			
S	Brake Line Spacer	(1)			
T	Zip Ties	(8)			
U	Blue Thread Loctite	(1)			
V	Tube Cutter	(1)			
W	Airline	(1)			

Tools Required

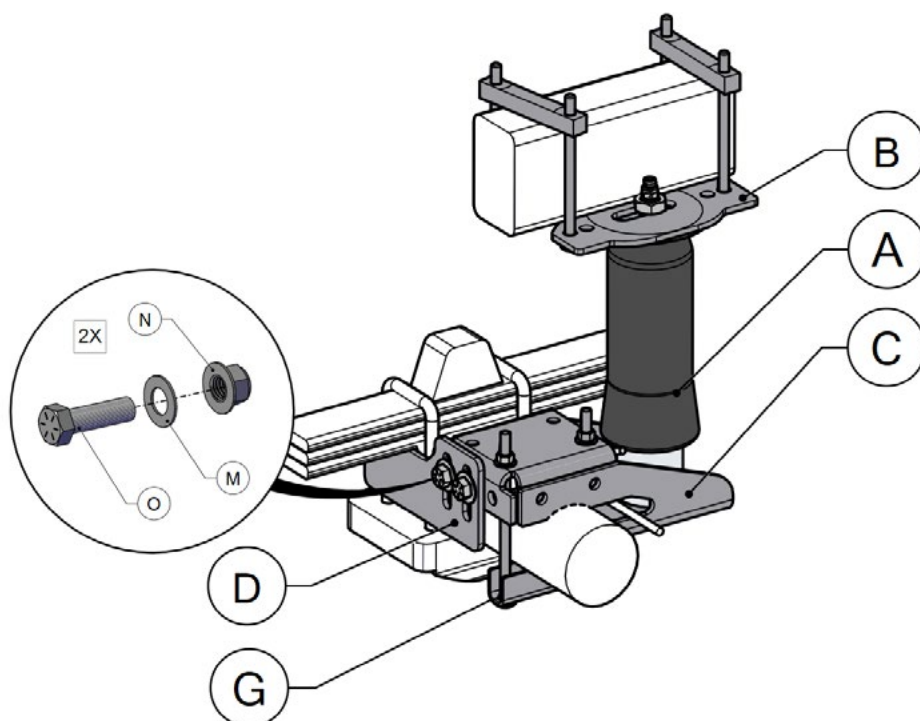
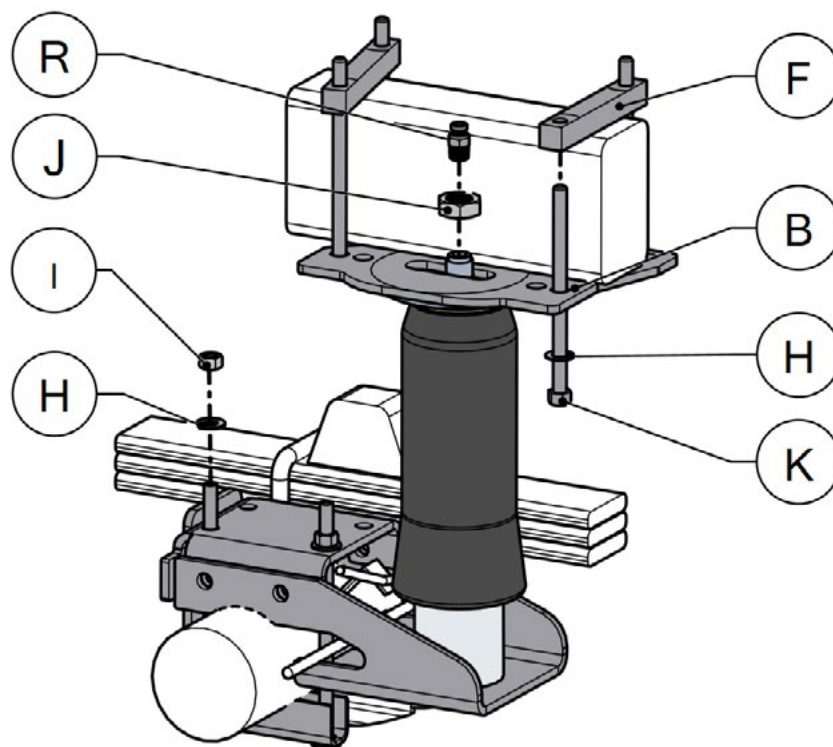
Open End or Box Wrenches
Ratchet & Socket Set
Torque Wrench [15-105 ft-lbs][20-142 N.m]
Hoist or Floor Jack
Spray Bottle with Dish Soap & Water
Tape Measure

Please make sure all the items shown in this explosion diagram are provided in your kit before starting the installation.

PASSENGER ASSEMBLY SHOWN:

NOTE: The following diagrams are for the passenger side installation. Reverse orientations when installing on the driver side.

The following diagrams may not depict all the items included in the kit. Refer to the following steps for full installation instructions.





WARNING: This product can expose you to the chemical Hexavalent Chromate, 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*

Thank you and congratulations on the purchase of an air suspension kit. Please read the entire manual prior to starting the installation to ensure you can complete it once started.

IMPORTANT

This air suspension kit will not increase the GVWR (*Gross Vehicle Weight Rating*), as the GVWR is determined by the vehicle manufacturer. **Do not exceed the maximum capacity listed by the vehicle manufacturer.**

Safety Warning!

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BEFORE STARTING THE INSTALLATION:

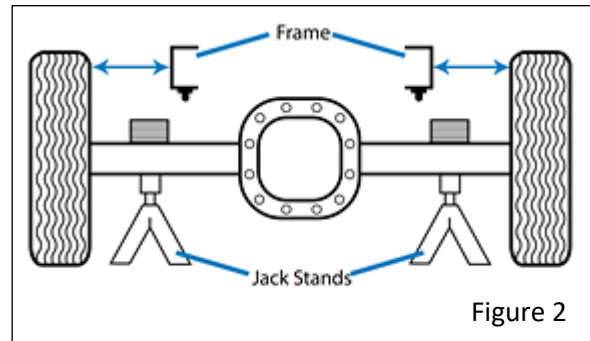
1. Ensure the application information is correct for the make, model and year of the vehicle you are installing the kit on.
2. Some vehicles are equipped with a rear wheel brake proportioning valve. Check with the manufacturer before installing the air spring kit, as it may affect braking performance.
3. It is recommended to use a good quality anti-seize on all fasteners. This will reduce the chance of corrosion on the fasteners and will help facilitate removal, if required at a later date.

PLEASE NOTE:

This kit contains push-to-connect fittings; using scissors or wire cutters to cut the nylon airline will distort the line and cause the connection to leak. THE AIRLINE MUST BE CUT OFF SQUARELY WITH THE NYLON HOSE CUTTER PROVIDED IN THIS KIT OR A SHARP UTILITY KNIFE.

1. RAISE THE REAR AXLE

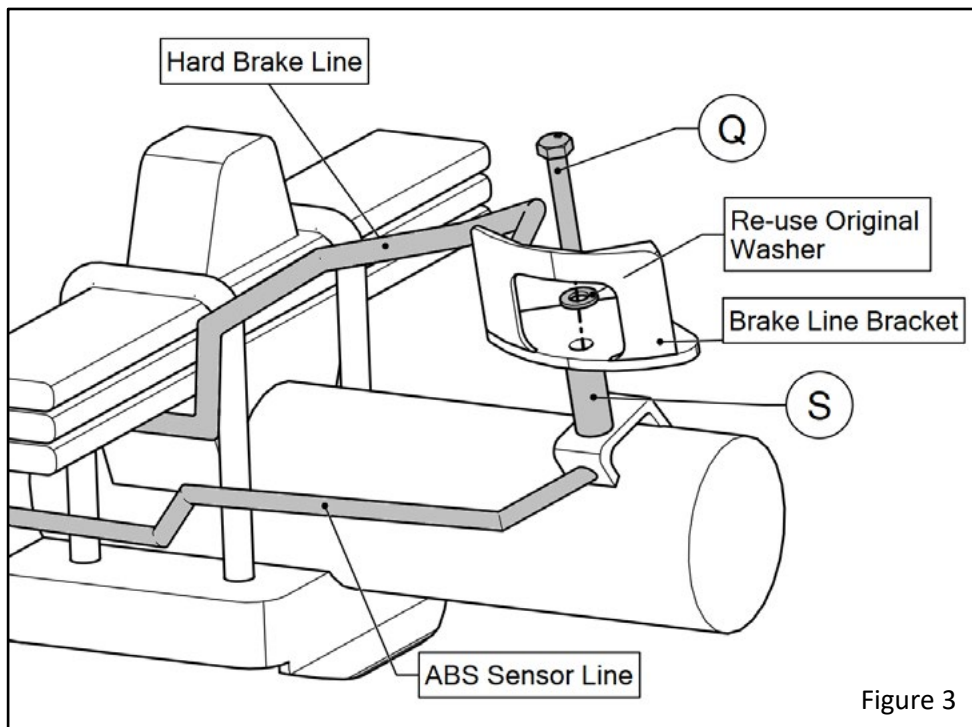
- Park the vehicle on a level surface and remove any unnecessary weight from the vehicle.
- Raise the rear axle high enough to attain a comfortable working height.
- Place two jack stands under the chassis (Figure 2).
- Lower the floor jack until the vehicle chassis is supported by the jack stands.



2. INSTALL PREPERATION

- The brake line bracket on the drives side of the vehicle needs to be relocated to allow clearance for the lower bracket.
- Unscrew the OE bolt holding the brake line bracket to the axle. Discard the bolt, but keep the washer.
- Install the brake line bracket spacer (S) and fasten it to the vehicle using the old washer and the supplied M8 bolt (Q). Refer to Figure 3. Refer to the vehicle service manual for torque specifications.


CAUTION: Do not bend or kink the hard brake lines excessively when relocating the brake line bracket.




3. INSTALL THE LOWER BRACKET

- Place the lower bracket (C) onto the axle as shown in Figure 4.
- Attach the lower bracket assembly to the vehicle using the axle strap (G), carriage bolts (L), and 3/8" hardware (C/I).
- Adjust the lower bracket so it sits parallel with frame rail directly above it. Check for clearance to ensure it does not interfere with any brake lines.
- Torque the 3/8" axle strap hardware to 20 ft-lbs [27 N.m]
- Use the supplied 1/2" hardware to attach the leaf pack support bracket (D) to the lower bracket (C). Refer to Figure 5
- Push the leaf pack support bracket (D) up so that it contacts the underside of the leaf pack and prevents the lower bracket from rotating.

Torque the 1/2" hardware to 105-125 ft-lbs [142-169 N.m]

 **CAUTION:** You must torque the hardware in Figure 5 to the values specified above. Failure to do so will result in failure of the air suspension kit, and/or damage to your brake lines.

 **NOTE:** Use the supplied split loom (X) and zip ties (T) to secure brake lines away from the lower bracket, and to prevent chafing.

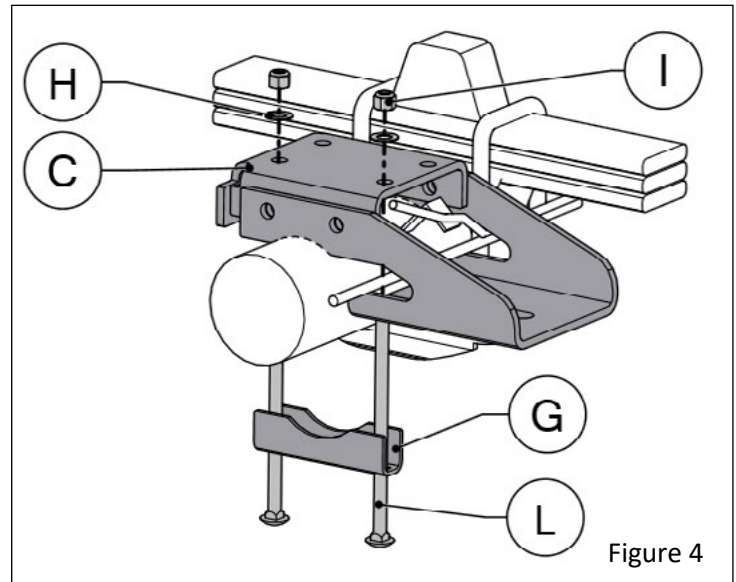


Figure 4

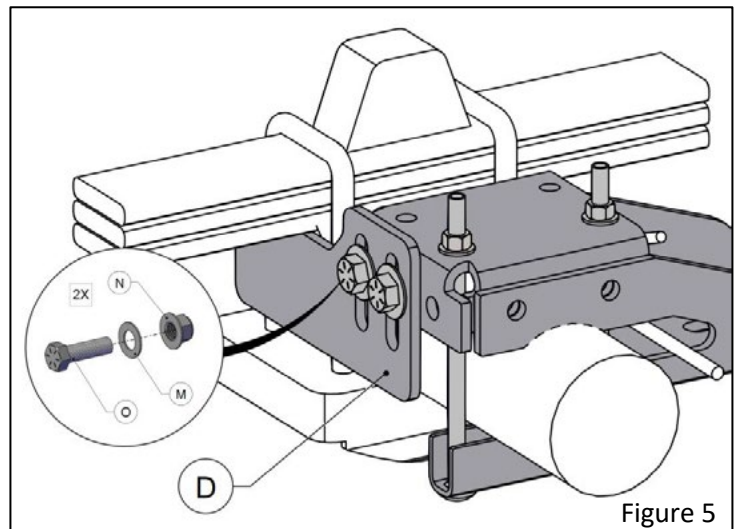


Figure 5

4. INSTALL THE UPPER BRACKET

- Install the upper bracket (B) onto the frame as shown in Figure 6.
- Torque the 3/8" hardware to 15 ft-lbs [20 N.m]



NOTE: Apply two drops of the supplied Loctite to the threads of each frame strap before installing the fasteners.

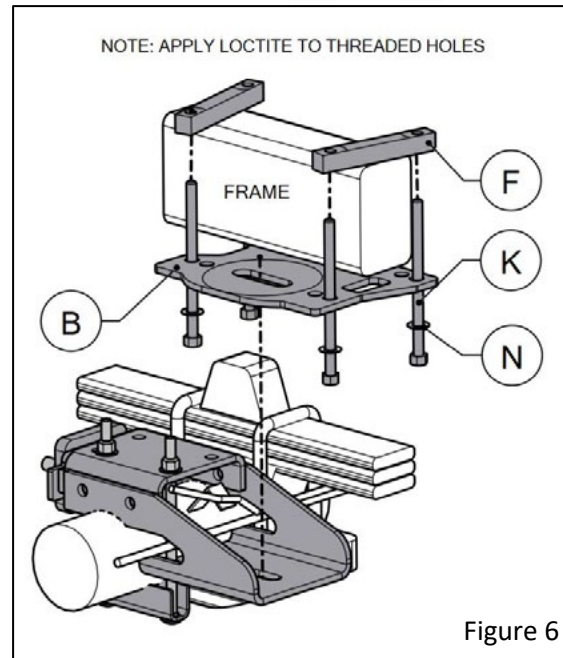


Figure 6

5. INSTALL THE AIR SPRING

- Install the air spring (A) into the vehicle as shown in Figure 7.
- Use a 3/4" jam nut (J) to secure the air spring (A) to the upper bracket (B).
- Use a 1/2" bolt (P) and washer (M) to secure the air spring (A) and spacer block (E) to the lower bracket.
- Position the air spring so that it sits vertically and does not interfere with any vehicle components.
NOTE: The spacer block (E) must be at least 1" away from any vehicle components (brake lines, OE brackets, etc.)
- Torque the 3/4" jam nut (J) to 25 ft-lbs [34 N.m]
- Apply two drops of Loctite to the 1/2" bolt (R) and install it into the bottom of the air spring. Torque the bolt to 25 ft-lbs [34 N.m].
- Install the air fitting (R) into the top of the air spring. Finger tighten and turn an extra 1-1.5 times to tighten

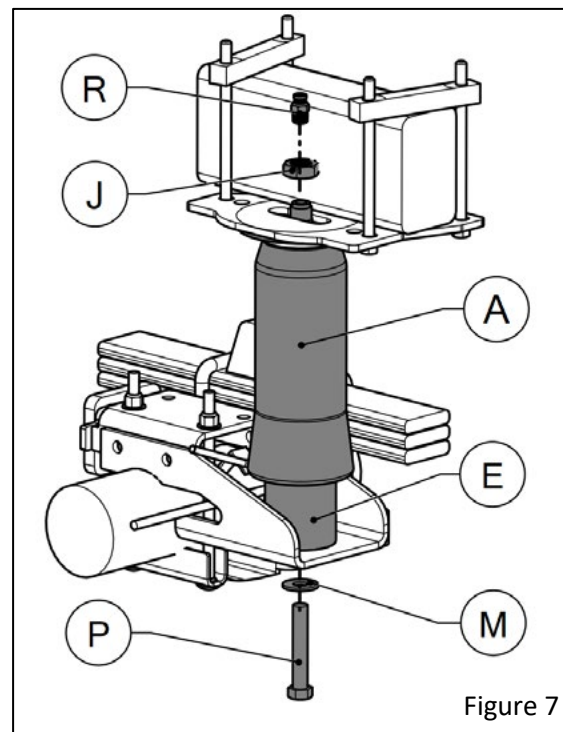
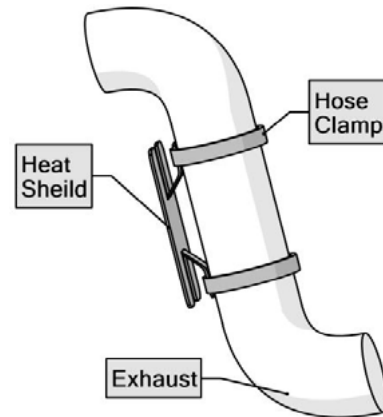


Figure 7

Congratulations on completing the installation for the passenger side. Reverse orientations and repeat steps 1-5 for the driver side before proceeding onto the following steps.

6. INSTALL THE HEAT SHIELD

- Bend the tabs on the Heat Shield (Y) so there is the necessary $\frac{1}{2}$ " dead space between the Heat Shield and the exhaust pipe when attached.
- Attach the Heat Shield to the exhaust pipe using two Hose Clamps (Z). Each Hose Clamp holds a tab against the exhaust pipe. Make sure the Heat Shield is facing toward the Air Spring.

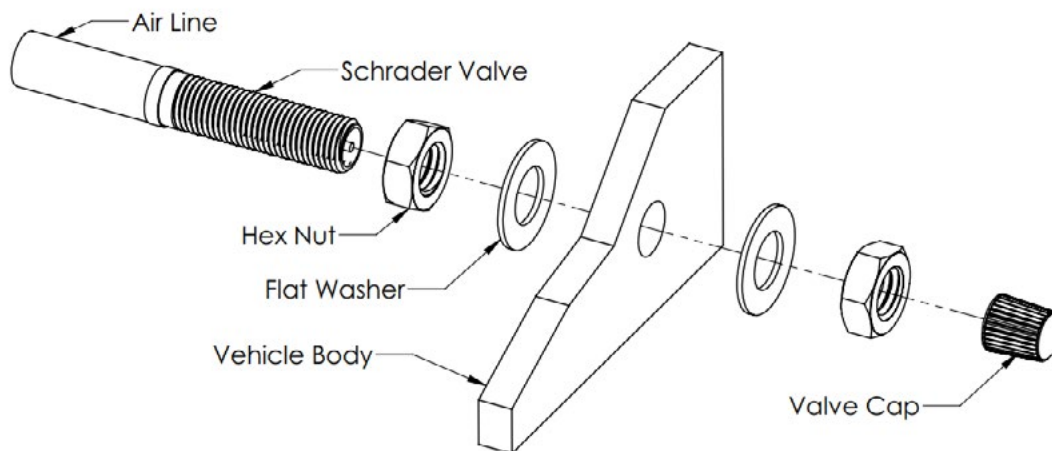


7. INSTALL THE AIR LINES

- Provided in the basic air spring kit are two fill valves. The most common place to install them is to replace the license plate fasteners with the fill valves. Alternatively, two $\frac{5}{16}$ " holes can be drilled in a convenient location.
- Install one airline according to the figure below. Route the nylon hose to an air spring fitting, cut the hose and connect to the air spring fitting. Repeat with the other fill valve.
- Secure the airlines away from moving items and heat sources with the tie straps provided in the kit.
- If an in-cab inflation kit is being installed, follow the instructions provided with it.



CAUTION: This kit contains push-to-connect fittings, using scissors or wire cutters to cut the nylon airline will distort the line and cause the connection to leak. THE AIRLINE MUST BE CUT OFF SQUARELY WITH A SHARP RAZOR KNIFE OR THE TUBE CUTTER PROVIDED IN THE KIT.



8. CHECK THE SYSTEM FOR LEAKS

- Inflate both air springs to 90 PSI, and then use a mixture of dish soap and water on all air line connections to detect any air leaks. Repair as necessary and re-test.
- Inflate the air springs to a predetermined value, and on the following day re-check the pressure. If one or both the air springs have lost pressure, an air leak is present. The leak must be repaired, and then retested until no leaks exist.



9. AFTER THE INSTALLATION IS COMPLETE, PLEASE REMEMBER

- Re-torque all the fasteners after the first 500 miles of driving.
- For safe and proper operation, never operate the vehicle under the minimum of 10 PSI or over the maximum of 100 PSI. Staying within the pressure limit will ensure maximum air spring life. Failure in doing so may result in a void warranty (Refer to the warranty section on the following page).

 **Do not exceed maximum vehicle payload. Failure to do so may result in failure of the air suspension kit**

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OPTIONAL ACCESSORIES

Optional dual needle air gauges are available to monitor pressure in each spring from vehicle cab, as well as a full line of air compressors, air tanks, and solenoids built to work with and control your air spring system.

OPERATING YOUR VEHICLE WITH AIR SUSPENSION

Air springs have minimum and maximum pressure requirements. Never operate your vehicle with less than 10 psi in air spring and never inflate air springs over 100 psi. Damage to air springs will result.

Check air pressure in air springs daily for first couple of days to ensure a leak has not developed. Air springs are designed to maintain the vehicles stock ride height with a load. Do not use the air springs as a means to lift vehicle with no load. This will result in a harsh ride.

SERVICING YOUR VEHICLE WITH AIR SUSPENSION

When lifting the vehicle with a floor jack or hoist on the frame, never allow the air spring to limit the travel of the axle. Try to always jack the vehicle on the axle. Suspending the axle with the air spring limiting the axle travel will damage the air spring and void the air spring warranty.

WARRANTY

To be eligible for warranty, the owner must submit their warranty card or register online within 30 days of the purchase date.

NOTE: The owner's warranty will be void if air springs are run with less than the minimum of 10 psi.