

# Installation Manual

VERSION  
FRANÇAISE



## 10395-X KIT

Mercedes Sprinter 2500/3500 (2WD/4WD) SRW\*

*Eliminate your vehicle's sag, sway and bottoming out while providing added support for an overall smooth and safe ride with this extreme duty air suspension kit. Rated for up to 7500 lbs of load-leveling capacity<sup>+</sup>, this kit is ideally suited for those towing/hauling big loads on a regular basis.*

\* See application guide for proper fitment.



**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](http://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.**

***PLEASE NOTE:*** *The air bag must have clearance between itself and the surrounding components to prevent any contact when bag is inflated or compressed. Trimming off excess bolt length is also required to ensure no contact with the bag or other suspension components can be made once installed.*

#### ***Safety Warnings!***

- ❗ 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.
  - ❗ 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.
  - ❗ 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.
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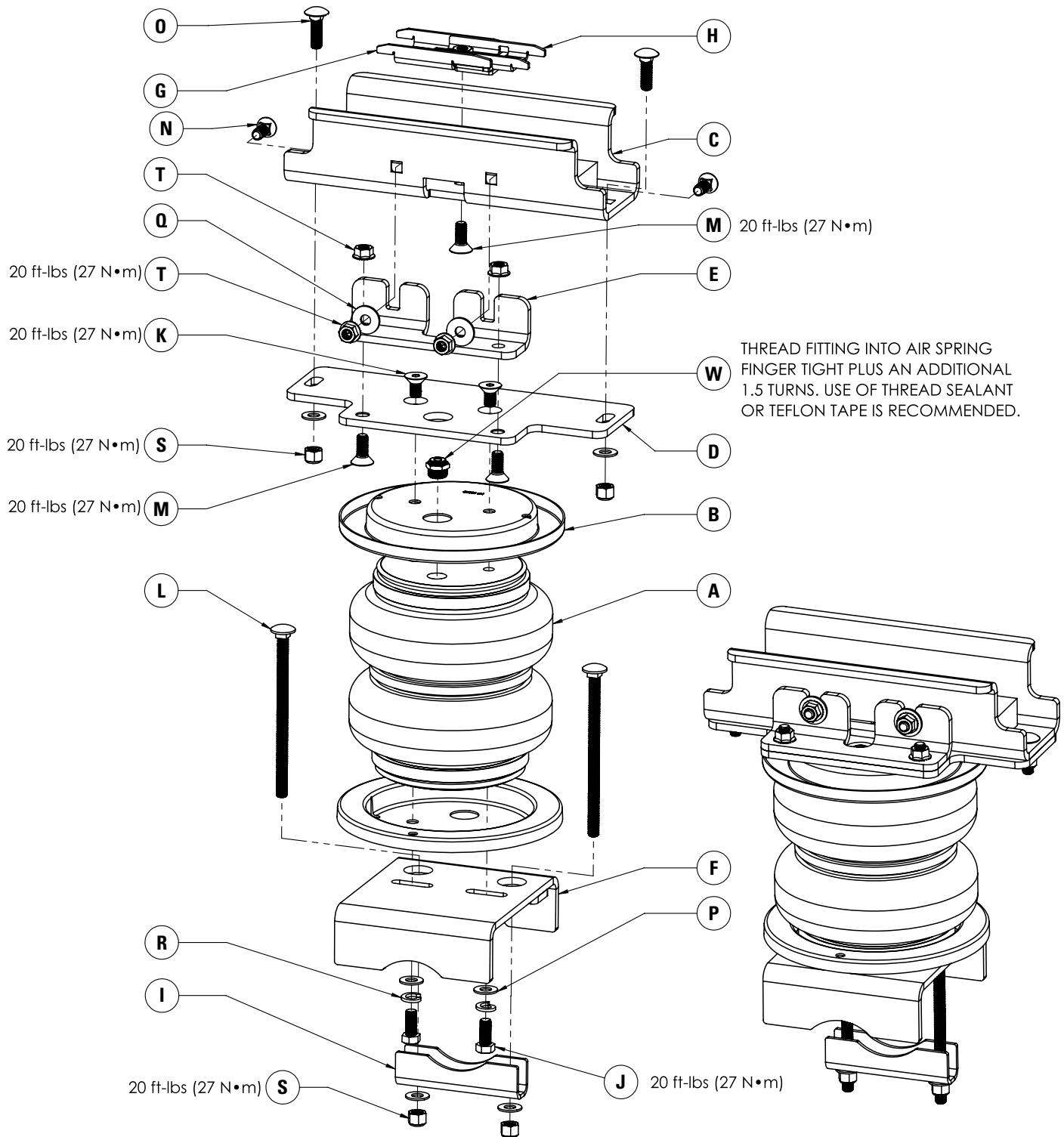
**KIT CONTENTS**

Reference the kit explosion diagram on the following page for part assembly.

KIT CONTENTS		QTY	PART #	REQUIRED TOOLS
<b>A</b>	Extreme Air Bag	2	HP10438	• Hoist or Floor Jack
<b>B</b>	Roll Plate	4	HP10069	• Safety Stands
<b>C</b>	Bracket, Upper	2	HP1721	• Safety Glasses
<b>D</b>	Bracket, Upper Air Bag	2	HP1724	• Torque Wrench
<b>E</b>	Bracket, Upper Support	2	HP1725	• Standard Combination Wrenches
<b>F</b>	Bracket, Lower	2	HP1726	• 7/32" Hex Allen Wrench
<b>G</b>	Plate, Jounce Outer Lock	2	HP1717	• 1-1/8" Wrench or Deep Socket
<b>H</b>	Plate, Jounce Inner Lock	2	HP1718	• Ratchet
<b>I</b>	Axle Strap	2	HP1530	• Metric & Standard Sockets
<b>J</b>	Bolt, 3/8" – 24 x 7/8" Hex Head	4	HP1002	• Hose Cutter (included) or Sharp Utility Knife
<b>K</b>	Bolt, 3/8" – 24 x 3/4" Countersunk	4	HP1008	• Pipe Thread Sealant
<b>L</b>	Bolt, 3/8" – 16 x 6" Carriage	4	HP1685	• Spray Bottle with Dish Soap/Water
<b>M</b>	Bolt, 3/8" – 16 x 1" Countersunk	6	HP1704	• Air Compressor/Compressed Air Source (to test/fill air springs)
<b>N</b>	Bolt, 3/8" – 16 x 1" Square Neck Plow	4	HP1734	
<b>O</b>	Bolt, 3/8" – 16 x 1.25" Carriage	4	HP1149	
<b>P</b>	Washer, 3/8" Flat	12	C653	
<b>Q</b>	Washer, 3/8" Wide Flat	4	C18006	
<b>R</b>	Washer, 3/8" Split Lock	4	C18007	
<b>S</b>	Nut, 3/8" Nylon Lock	8	HP1000	
<b>T</b>	Nut, 3/8" Serrated Flange	8	HP1338	
<b>U</b>	Heat Shield	1	HP0012	
<b>V</b>	Worm Gear Ring Clamp	2	HP1001	
<b>W</b>	NPT Brass Straight Air Fitting	2	HP1385	
<b>X</b>	Airline Hose Assembly (not shown)	1	HP1344	
<b>Y</b>	Tie Strap (not shown)	6	C11618	

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

### DRIVER SIDE ASSEMBLY SHOWN:



**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.***

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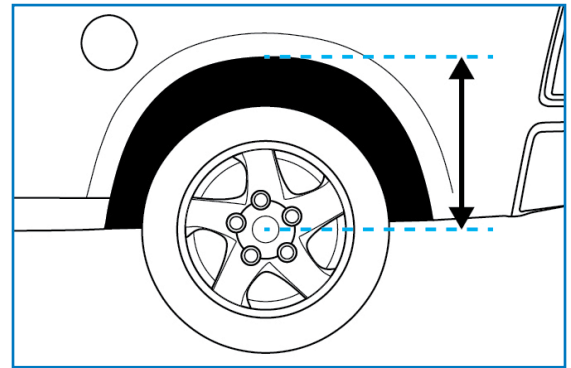
**1 MEASURE STOCK RIDE HEIGHT**

Park the vehicle on a level surface.

Remove any unnecessary weight from the vehicle to attain a Normal Ride Height. This is important for correct initial air spring set-up and adjustment.

Using a measuring tape, measure the distance between the center of the wheel hub and the bottom of the fender well (as shown in Figure 1) this will give you your ride height.

Note the ride height for all four corners.



1

**2 REMOVE REAR WHEELS**

Place wheel chocks in front of and behind both front wheels.

Raise the rear of the truck high enough to remove both wheels and attain a comfortable working height.

Place two jack stands under rear axle (shown in Figure 2).

Lower the vehicle until the axle is supported by the jack stands.

Remove rear wheels.



2

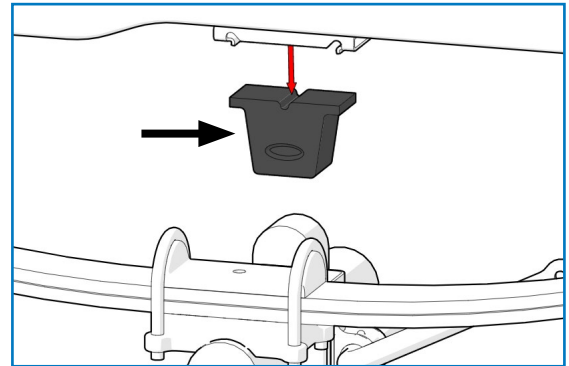
### 3 REMOVE BUMP STOP & STRIKE BLOCK

Using a long flat head screwdriver or pry bar, remove the frame mounted rubber jounce bumper (shown with an arrow in Figure 3A).

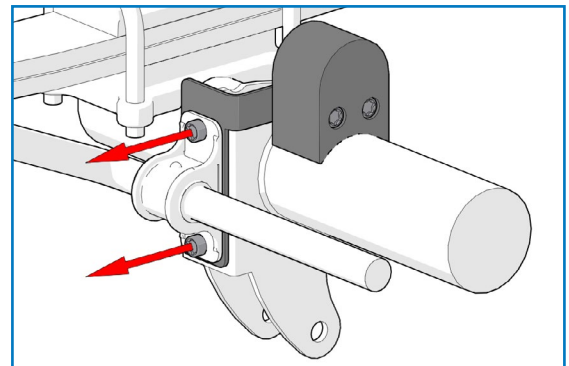
Use a Torx drive socket to remove the bolts attaching the sway bar to the axle (as shown with the arrows in Figure 3B).

Remove the strike block bracket and strike block assembly from the axle.

Reinstall the sway bar using the removed hardware and torque to factory specifications.



3A

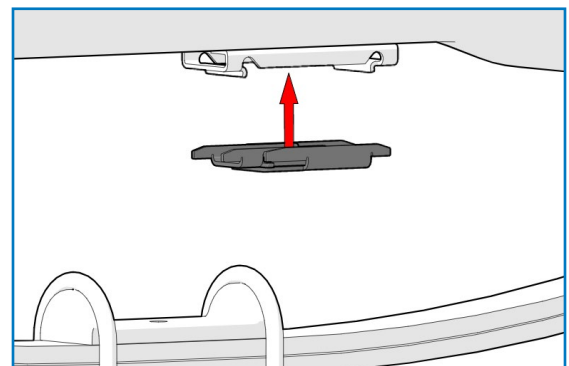


3B

### 4 INSERT JOUNCE BUMPER CLAMPS

Slide inner and outer jounce bumper clamps together and insert jounce bumper clamps into the jounce bumper retainer on the frame (as shown in Figure 4).

Expand the clamps and ensure their edges rest on the jounce bumper retainer.



4

### 5 INSTALL UPPER BRACKET TO FRAME

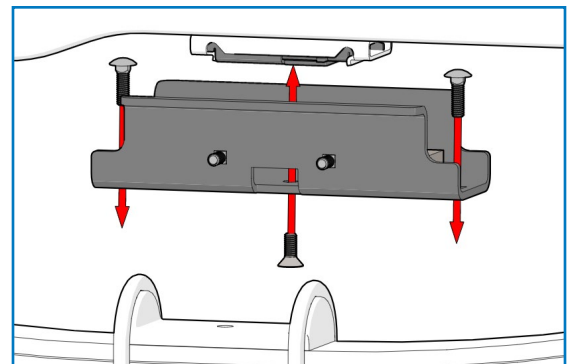
Using Figure 5 as reference, insert two 3/8"-16 x 1" square neck plow bolts through the square chamfered holes in the upper frame bracket.

Insert two 3/8"-16 x 1.25" carriage bolts through the non-chamfered square holes as shown.

Place the upper frame bracket on the frame and secure with a 3/8"-16 x 1" countersink bolt as shown.

**NOTE: A wiring harness may need to be unclipped from the frame on the driver's side to allow for installation.**

Torque countersunk bolt to 20 ft-lbs (37 N•m).



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## 6 ASSEMBLE AIR SPRINGS AND UPPER BRACKETS

Place a roll plate on the upper surface of the air bag (in the orientation shown in Figure 6).

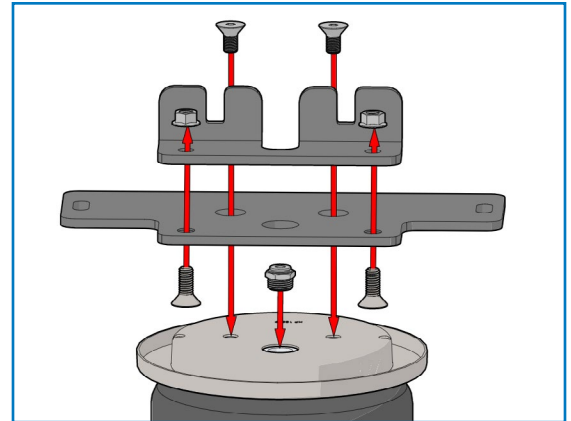
Thread air fitting into air springs finger tight plus an additional 1.5 turns. The use of thread sealant or Teflon tape is recommended.

Attach the air bag bracket and support bracket together using two 3/8"-16 x 1" countersunk bolts and two 3/8" serrated nuts.

Torque hardware to 20 ft-lbs (37 N•m).

Attach the bracket assembly to the air bag using two 3/8"-24 x 3/4" countersunk bolts.

Torque hardware to 20 ft-lbs (37 N•m).



6

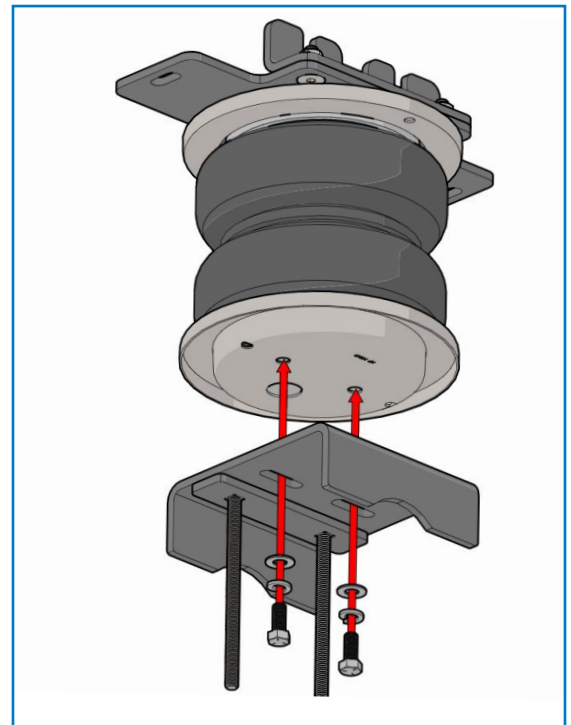
## 7 ASSEMBLE AIR SPRINGS AND LOWER BRACKETS

Insert two 3/8"-16 x 6" carriage bolts through the lower brackets (as shown in Figure 7).

**NOTE:** Carriage bolts must be inserted before attaching the air bag as the roll plate will block the holes.

Place a roll plate on the lower surface of the air bag and secure the lower bracket to the bag using two 3/8"-16 x 7/8" hex bolts, two 3/8" lock washers and two 3/8" flat washers.

Torque bolts to 20 ft-lbs (37 N•m).



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## 8 INSTALL SPRING ASSEMBLY

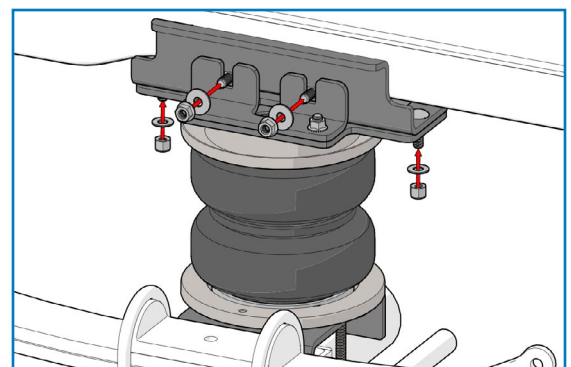
Place the air spring assembly in the vehicle (as shown in Figure 8).

Secure the support bracket to the upper frame bracket using the pre-installed plow bolts, two 3/8" wide flat washers and two 3/8" serrated flange nuts.

Torque nuts to 20 ft-lbs (37 N•m).

Secure the air bag bracket to the upper frame bracket using the pre-installed carriage bolts, two 3/8" flat washers and two 3/8" nylon lock nuts.

Torque nuts to 20 ft-lbs (37 N•m).



8



## 9 SECURE SPRING ASSEMBLY TO AXLE

Position the lower bracket on the axle to achieve the best vertical spring alignment (see Figures 9A & 9B for reference).

Secure the spring assembly to the axle using an axle strap, two 3/8" flat washers and two 3/8" nylon lock nuts (as shown in Figure 9B).

**Repeat Steps 3-9 for the Passenger side.**

## 10 INSTALL HEAT SHIELD

Bend tabs on the heat shield so the required 1/2" of dead space exists between the heat shield and exhaust when attached.

Attach the heat shield to the exhaust pipe using 2 worm gear clamps. Each hose clamp holds a bent tab against the exhaust pipe.

Ensure heat shield faces toward air spring.

## 11 INSTALL AIR LINE

**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

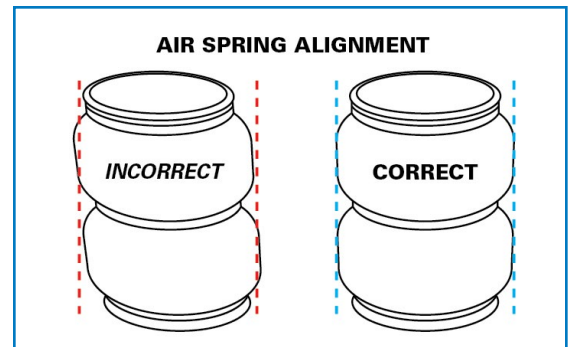
Provided in air spring kit are two fill valves. The most common place to install is in place of license plate fasteners. Alternatively, two 5/16" holes can be drilled in a convenient location.

Cut air line assembly into two equal lengths with hose cutter.

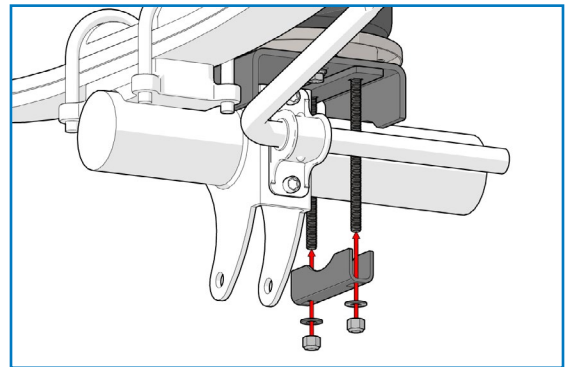
Install one air line, route the nylon air line to an air spring fitting and cut the hose. Moisten the end of the air line prior to inserting it into the fitting and push it in until it stops. Repeat with the other fill valve.

Secure airlines using the tie-straps, away from moving items and heat sources.

Place a 5/16" nut on the air valve. Leave enough of the inflation valve in front of the nut to extend through the hole, install a flat washer, and 5/16" nut and cap (reference Figure 11 on the following page for assembly). There should be enough valve exposed after installation—approximately 1/2"—to easily apply a pressure gauge or an air chuck.



9A



9B



10



**If an in-cab inflation kit is being installed, follow the instructions provided with that kit now.**

## 12 CHECK 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. Large, expanding bubbles indicate a leak (as shown in Figure 12).

Repair as necessary and retest.

Inflate air springs to a predetermined value and on following day recheck pressure. If one or both of air springs have lost pressure, an air leak is present.

Leak must be repaired, and then retested until no leaks exist.

## 13 AFTER COMPLETING THE INSTALLATION

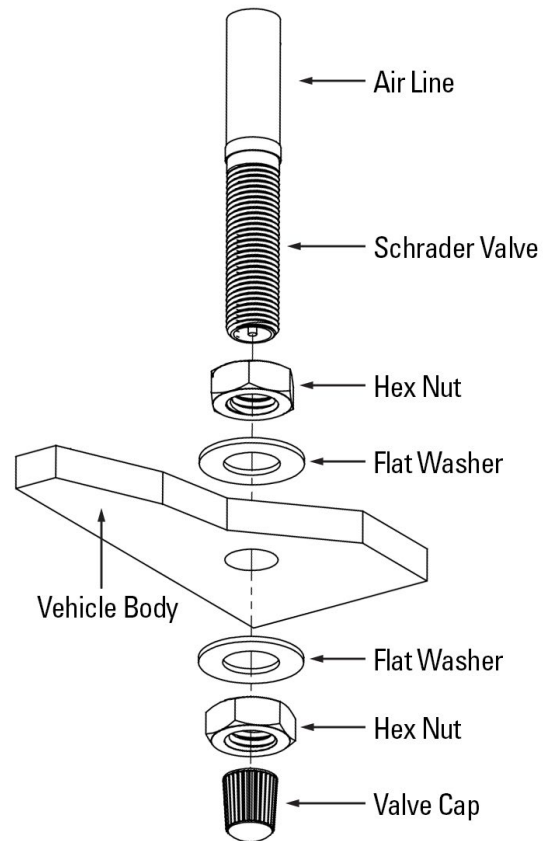
### PLEASE REMEMBER:

Install wheels and torque fasteners to manufacturer's specifications.

Re-torque all fasteners after first 500 miles of driving.

For safe and proper operation, never operate the vehicle under minimum of 10 psi or over maximum of 100 psi in air springs. Staying within pressure limit will ensure maximum air spring life. Failure in doing so may result in a void warranty (see **Note** below).

**NOTE: Do not exceed maximum vehicle payload. Failure to do so may result in failure of the air suspension kit and/or damage to your vehicle.**



11



12

***Thank you again, and congratulations on the installation of the air suspension kit.***

## 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.***

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