

Installation Manual



AIR SUSPENSION KIT

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

Will not fit E-Sprinter models

Use this heavy duty air suspension kit to level your truck's stance and eliminate your vehicle's sag, sway and bottoming out while providing added support for an overall smooth & safe ride.

* See application guide for proper fitment.

L6663_REV1_05.04.2026

Please read the entire manual prior to starting the installation to ensure you can complete it once started. If you are unsure whether you are qualified to install the Air Suspension kit, consult a qualified service professional before beginning the installation.

SAFETY WARNINGS!

You must read and abide by the instructions found in this manual, paying close attention to the helpful (+), cautionary (!) or dangerous (!) warning icons highlighting important safety recommendations and maintenance suggestions throughout this manual. **Failure to abide by all instructions in this manual will void the warranty.**



HELPFUL INSTALL TIP

Additional information that could potentially make the job a little easier.



PLEASE USE CAUTION

Unsafe practices could result in damage to you or your vehicle, or others.



DANGER WARNING

Hazards which could result in severe personal injury or death.

- ! **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.
- ! **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.
- ! **An 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.**

- ! For safe and proper operation of the vehicle, never operate the vehicle under the minimum or over the maximum listed PSI in the air spring(s), (see: *MIN/MAX PSI* chart on the final page of this manual). Staying within the pressure limits will ensure a reasonable duration of the air springs. **Failure in doing so may result in damage to your vehicle and will void the warranty.**

BEFORE STARTING THE INSTALLATION

- ! **Always read your vehicle owner's manual and follow all instructions and warnings therein prior to modifying your vehicle.**
- ! Ensure the application information is correct for the make, model and year of the vehicle you are installing the kit on.
- ! It is recommended to always jack the vehicle on the axle. If lifting the vehicle with a floor jack or hoist on the frame, never allow the air spring to limit the travel of the axle. Suspending the axle with the air spring limiting the axle travel **will damage the air spring and void the warranty.** (This warning does not apply to In-Coil Springs)
- ! The air spring must have clearance between itself and the surrounding components to prevent any contact when the air spring is inflated or compressed. Trimming off excess bolt length may also be required to ensure no contact with the spring or other suspension components can be made once installed. **Failure to do so will void the warranty.**
- ! 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.
- ! This kit contains push-to-connect fittings; using scissors or wire cutters to cut the nylon air line will distort the line and cause the connection to leak. The air line must be cut off squarely with the hose cutter provided in this kit, or a sharp utility knife. **Failure to do so will void the warranty.**
- + It is recommended to use additional thread sealant or Teflon tape on fittings during the installation for a proper seal.
- ! Always ensure the bolts are not over-torqued; especially when a torque value is provided, failing to use the provided torque value(s) can lead to **premature failure and will void the warranty.**
- + It is recommended to use a good quality anti-seize on all fasteners to reduce the chance of corrosion and help facilitate removal, if required at a later date.



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**

KIT CONTENTS

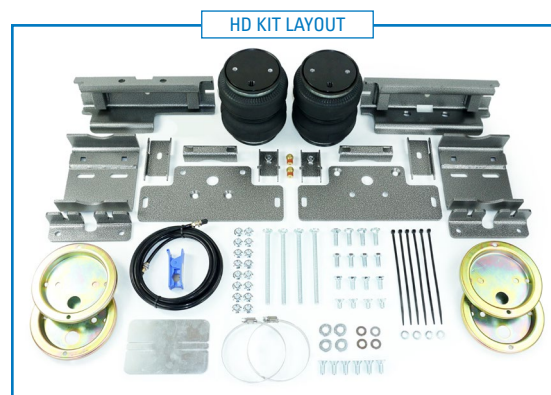
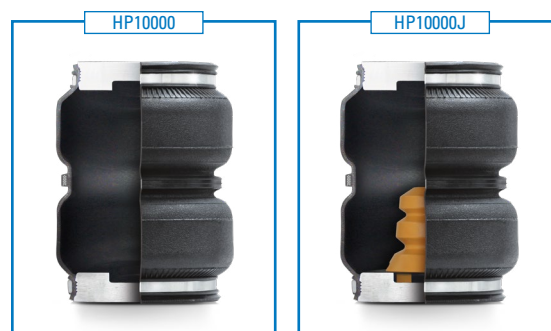
Please confirm the items below are provided in your kit before starting the installation.

HEAVY DUTY KITS		QTY	PART #
A¹	Double Convoluted Spring	2	HP10000
C¹	Roll Plate	4	HP10054
D¹	Straight Fitting, 1/4" NPT	2	HP1099

HEAVY DUTY JOUNCE BUMPER KITS		QTY	PART #
B¹	Double Convoluted Spring w/ Jounce Bumper	2	HP10000J
C¹	Roll Plate	4	HP10054
D¹	Straight Fitting, 1/4" NPT	2	HP1099

XTREME DUTY KITS		QTY	PART #
A²	Double Convoluted Spring	2	HP10438
C²	Roll Plate	4	HP10069
D²	Straight Fitting, 3/8" NPT	2	HP1385

XTREME DUTY JOUNCE BUMPER KITS		QTY	PART #
B²	Double Convoluted Spring w/ Jounce Bumper	2	HP10438J
C²	Roll Plate	4	HP10069
D²	Straight Fitting, 3/8" NPT	2	HP1385



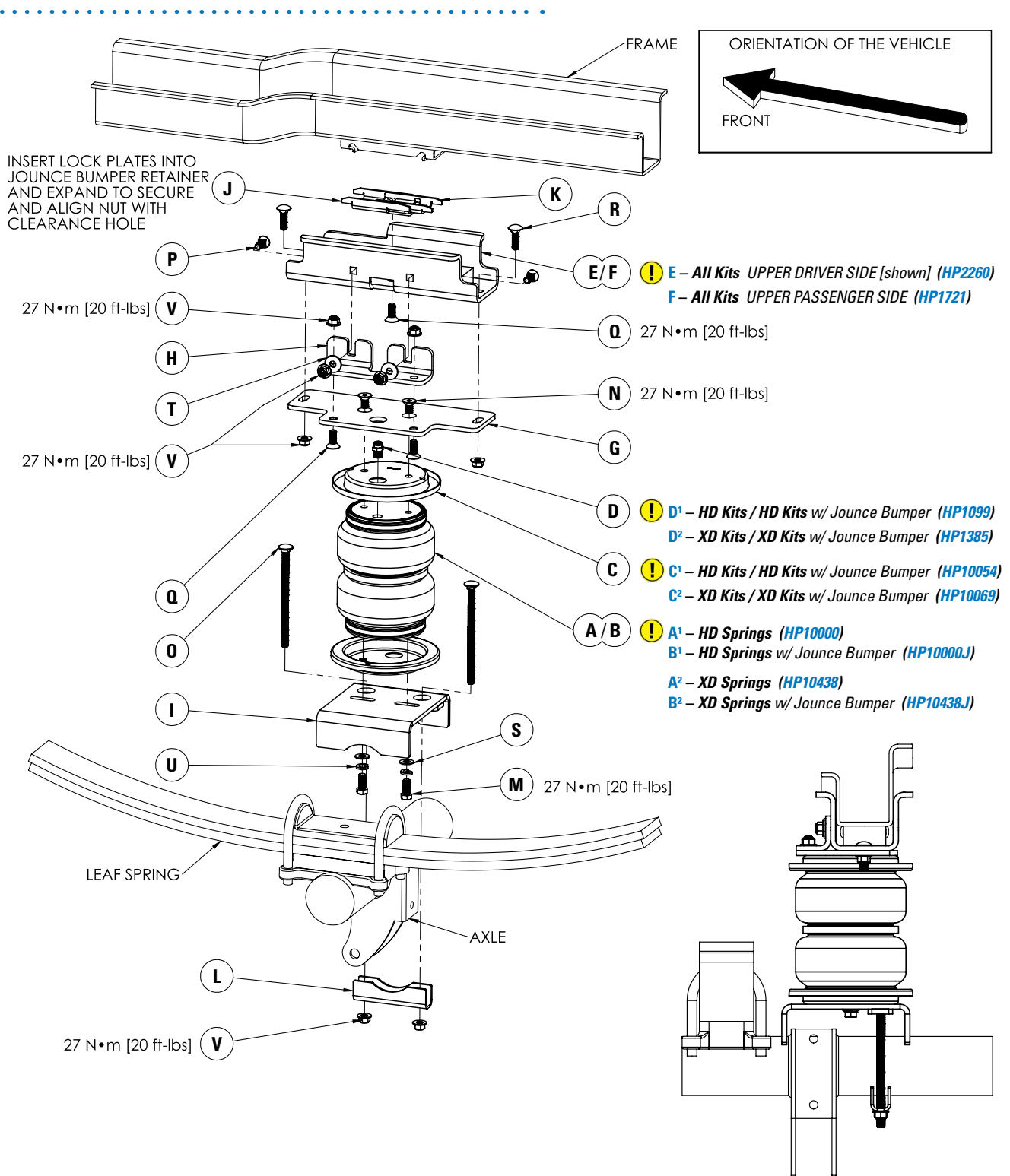
KIT CONTENTS		QTY	PART #
E	Bracket, Upper Driver	1	HP2260
F	Bracket, Upper Passenger	1	HP1721
G	Bracket, Upper Air Bag	2	HP1724
H	Bracket, Upper Support	2	HP1725
I	Bracket, Lower Axle	2	HP1726
J	Plate, Jounce Outer Lock	2	HP1717
K	Plate, Jounce Inner Lock	2	HP1718
L	Axle Strap	2	HP1530
M	Bolt, 3/8" – 24 x 7/8" Hex Head	4	HP1002
N	Bolt, 3/8" – 24 x 3/4" Countersunk	4	HP1008
O	Bolt, 3/8" – 16 x 6" Carriage	4	HP1685
P	Bolt, 3/8" – 16 x 1" Square Neck Plow	4	HP1734
Q	Bolt, 3/8" – 16 x 1" Countersunk	6	HP1704
R	Bolt, 3/8" – 16 x 1.25" Carriage	4	HP1149
S	Washer, 3/8" Flat	4	C653
T	Washer, 3/8" Wide Flat	4	C18006
U	Washer, 3/8" Split Lock	4	C18007
V	Nut, 3/8" Nylon Lock Flange	16	HP1975
W	Heat Shield	1	HP0012
X	Worm Gear Ring Clamp	2	HP1001
Y	Airline Hose Assembly	1	HP1344
Z	Tie Strap	6	C11618

REQUIRED TOOLS

- Hoist or Floor Jack
- Safety Glasses
- Pipe Thread Sealant
- Standard Combination Wrenches
- 7/32" Hex Allen Wrench
- Metric & Standard Sockets
- Hose Cutter (included) or Sharp Utility Knife
- Spray Bottle with Dish Soap/Water
- Air Compressor/Compressed Air Source (to test/fill air springs)
- Heavy Duty Drill
- 3/8 & 5/16 drill bits (very sharp)
- 3/8 Nut Driver
- Safety Stands
- Torque Wrench
- Ratchet

KIT EXPLOSION DIAGRAM

DRIVER SIDE ASSEMBLY SHOWN (Passenger side assembly is mirrored)



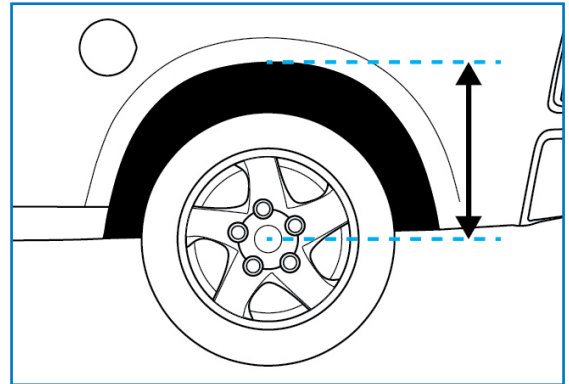
INSTALLATION INSTRUCTIONS

1 MEASURE STOCK RIDE HEIGHT & CLEARANCE

Park the vehicle on a level surface and remove any unnecessary weight from the vehicle to attain a "Normal Ride Height".

Using a measuring tape, measure the distance between the center of the wheel hub and the bottom of the fender well (see Figure 1A for reference) this will give you your stock Normal Ride Height.

Note the ride height for all four tires.



1A

2 REMOVE REAR WHEELS

+ PLEASE NOTE: This step is optional for this installation but will make the install easier to complete.

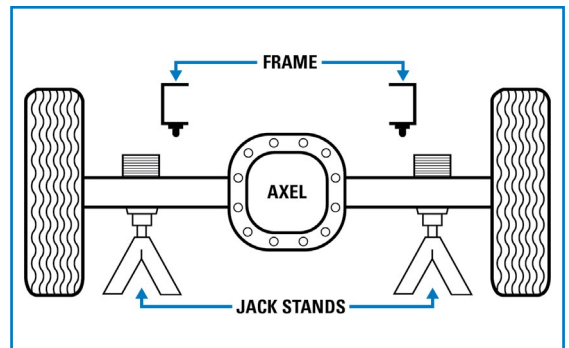
Place wheel chocks in front of and behind both front wheels.

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 (as shown in Figure 1B).

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

Remove rear wheels.



1B

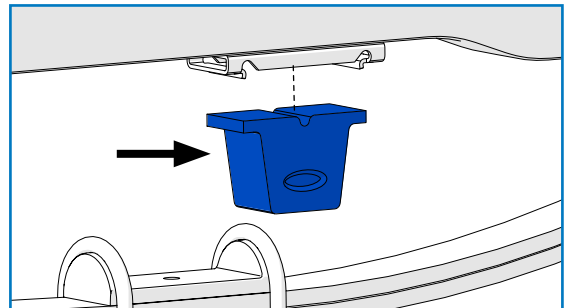
3 REMOVE BUMP STOP & STRIKE BLOCK

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

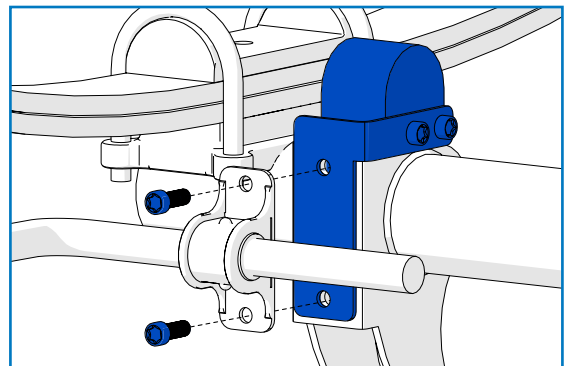
Use a Torx drive socket to remove the bolts attaching the sway bar to the axle (as shown in Figure 3B).

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

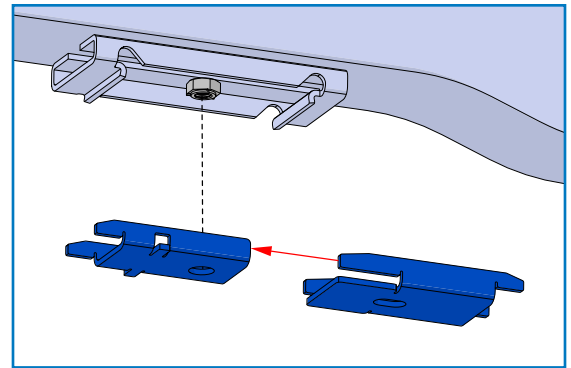


3B

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

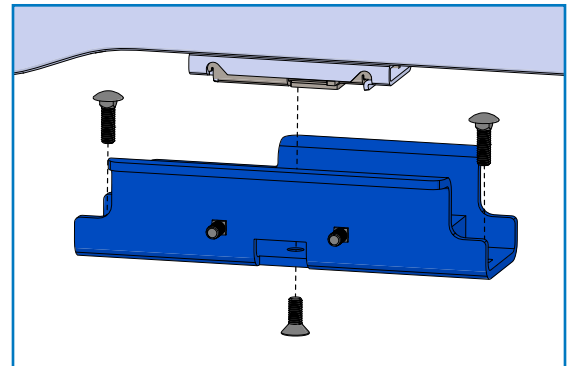
5 INSTALL UPPER BRACKET TO FRAME

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 in Figure 5).

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

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



5

Torque countersunk bolt to 27 N•m (20 ft-lbs).

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.

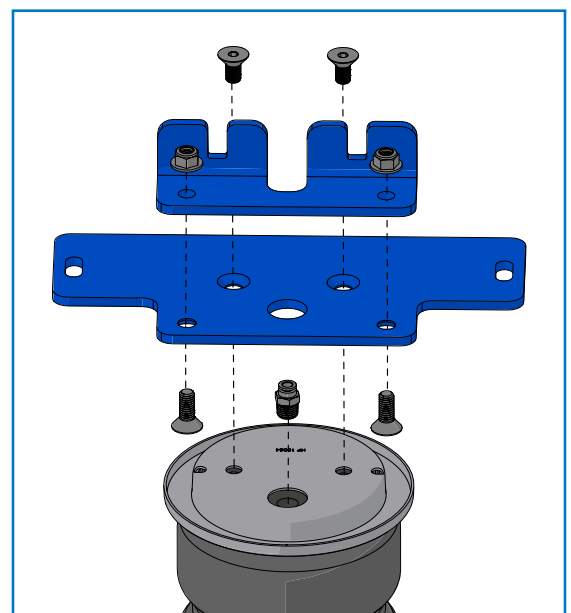
⊕ The use of thread sealant or Teflon tape is recommended.

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

Torque hardware to 27 N•m (20 ft-lbs).

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

Torque hardware to 27 N•m (20 ft-lbs).



6

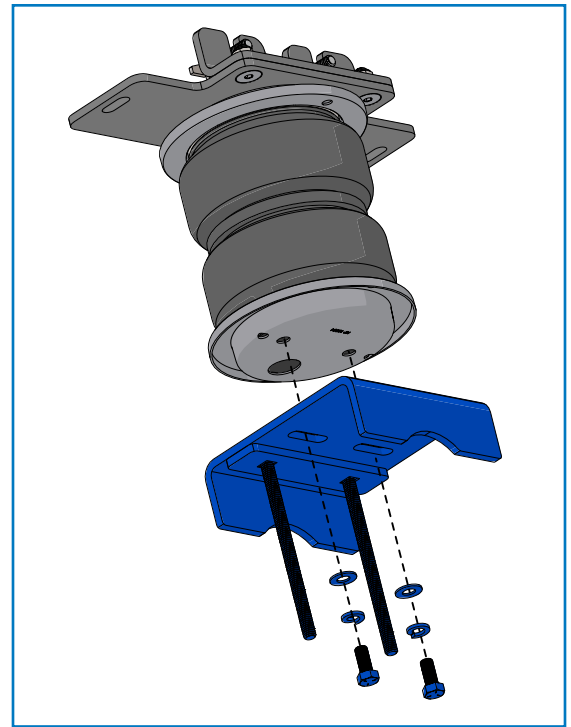
7 ASSEMBLE AIR SPRINGS AND LOWER BRACKETS

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

+ *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 27 N•m (20 ft-lbs).



7

8 INSTALL SPRING ASSEMBLY

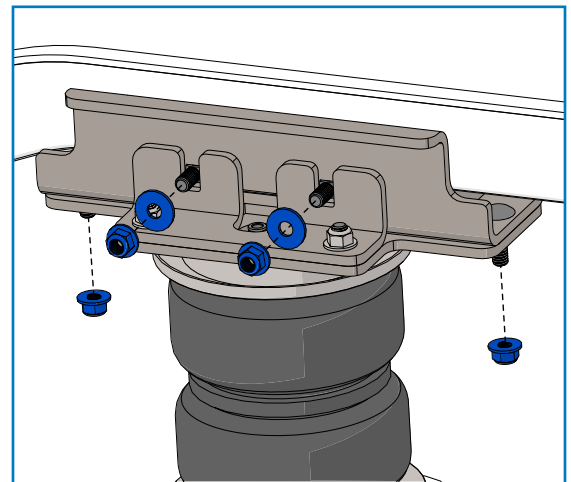
Place the air spring assembly in the vehicle (as shown in Figure 8).

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" nylon lock flange nuts.

Torque nuts to 27 N•m (20 ft-lbs).

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

Torque nuts to 27 N•m (20 ft-lbs).



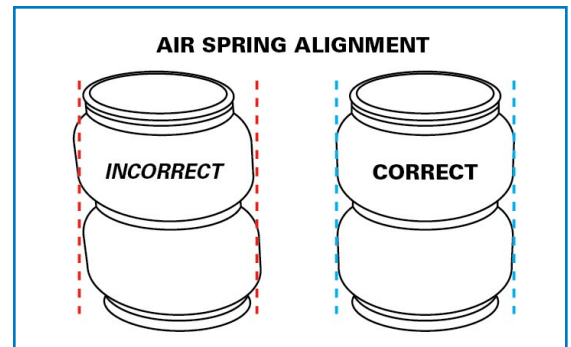
8

9 SECURE SPRING ASSEMBLY TO AXLE

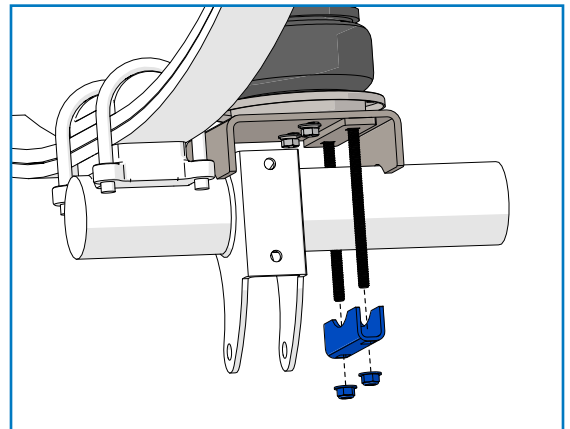
Position the lower bracket on the axle to achieve the best vertical spring alignment (see Figures 9A & 9B for reference).

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

REPEAT STEPS 3-9 on the other side of the vehicle



9A



9B

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.



10

INSTALL AIR LINE

Two fill valves are provided in this kit. The most common place to install them is in place of the license plate fasteners. Alternatively, two 5/16" holes can be drilled in a location of your choosing.

Cut the air line assembly into two equal lengths with the hose cutter provided in this kit or a sharp utility knife.

⚠ PLEASE NOTE: This kit contains **push-to-connect fittings**; using scissors or wire cutters to cut the nylon air line will distort the line and cause the connection to leak. The air line must be cut off squarely with a hose cutter or a sharp utility knife.

Install one air line at a time starting at the fill valve location. 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 A for assembly). There should be enough valve exposed after installation – approximately 1/2" – to easily apply a pressure gauge or an air chuck.

Route the air line back to the NPT fitting on the air spring, then cut the hose to length. 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 the air lines using the provided tie-straps, away from any moving items and heat sources.

CHECK SYSTEM FOR LEAKS

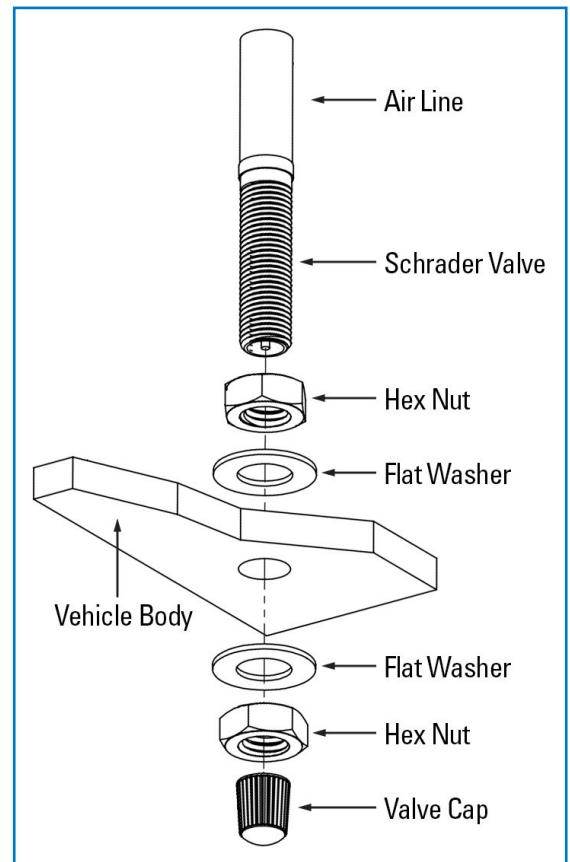
Using the *MIN/MAX PSI* chart on the following page; inflate both air springs to 10 psi less than the maximum recommended pressure for the air spring part number included in this kit; then use a mixture of dish soap and water on all air line connections to detect any air leaks. Large, expanding bubbles indicate a leak (as shown in Figure B).

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

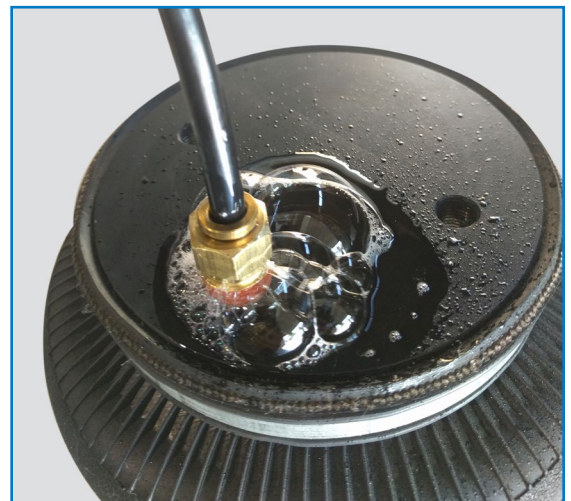
Recheck the pressure on the following day. If one or both of air springs have lost pressure, an air leak is present and must be repaired.

CONGRATULATIONS! You have completed the install

After Installation continues on the following page.



A



*Air Spring & NPT Air Fitting may differ between kits

B

Thank you again, and congratulations on the installation of your Air Suspension kit.

AFTER COMPLETING THE INSTALLATION

- ❗ The air spring must have clearance between itself and the surrounding components to prevent any contact when the air spring is inflated or compressed. Trimming off excess bolt length may also be required to ensure no contact with the spring or other suspension components can be made once installed. **Failure to do so will void the warranty.**
- ❗ If the vehicle's tires were removed during the installation; re-install and torque all wheel fasteners (lug nuts) to the manufacturer's specifications. Re-torque all wheel fasteners after the first 500 miles of driving.
- ❗ **Review your vehicle owner's manual and adhere to all instructions and post-installation requirements related to vehicle modifications.**

OPERATING YOUR VEHICLE WITH AIR SUSPENSION

Air springs have minimum and maximum recommended pressure requirements:

MIN / MAX PSI: REQUIREMENTS FOR YOUR AIR SPRING(S)				
PART #	SPRING STYLE	SPRING TYPE	MIN PSI	MAX PSI
HP10687	In-Coil	STANDARD DUTY	5 PSI	50 PSI
HP10560		STANDARD DUTY	5 PSI	70 PSI
HP10001	Sleeve Style	STANDARD DUTY	10 PSI	100 PSI
HP10173		STANDARD DUTY		
HP10199		STANDARD DUTY		
HP10083	Single Convolutd	HEAVY DUTY	5 PSI	100 PSI
HP10083J		HEAVY DUTY with JOUNCE BUMPER	0 PSI* / 5 PSI	100 PSI
HP10000	Double Convolutd	HEAVY DUTY	5 PSI	100 PSI
HP10000J		HEAVY DUTY with JOUNCE BUMPER	0 PSI* / 5 PSI	100 PSI
HP10068	Large Double Convolutd	HEAVY DUTY	5 PSI	100 PSI
HP10438	Double Convolutd	EXTREME DUTY	5 PSI	100 PSI
HP10438J		EXTREME DUTY with JOUNCE BUMPER	0 PSI* / 5 PSI	100 PSI

** Springs with a jounce bumper can be run at zero PSI when vehicle is unloaded only*

Never operate the vehicle under the minimum or over the maximum listed PSI in the air spring(s). Staying within the pressure limits will ensure maximum air spring life. **Failure in doing so may result in damage to your vehicle and void the warranty.**

- ❗ **It is recommended to check the air pressure in your air springs daily, for the first 5 days, to ensure a leak has not developed.**

Air springs are designed to maintain the vehicle's 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

It is recommended to always jack the vehicle on the axle. If lifting the vehicle with a floor jack or hoist on the frame, never allow the air spring to limit the travel of the axle. Suspending the axle with the air spring limiting the axle travel **will damage the air spring and void the warranty.** (This warning does not apply to In-Coil Springs)

WARRANTY

See accompanying limited warranty included with this kit for details.