

# Installation Manual



## 10339 KIT

Chevrolet Colorado / GMC Canyon (2WD/4WD)\*  
*Will not fit ZR2 or AT4 Models*

*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.*

\* 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)*

### 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.

### KIT CONTENTS

**Please make sure all the items shown in the kit contents below are included in your kit before beginning the installation. Reference the kit explosion diagram on the following page for part assembly.**

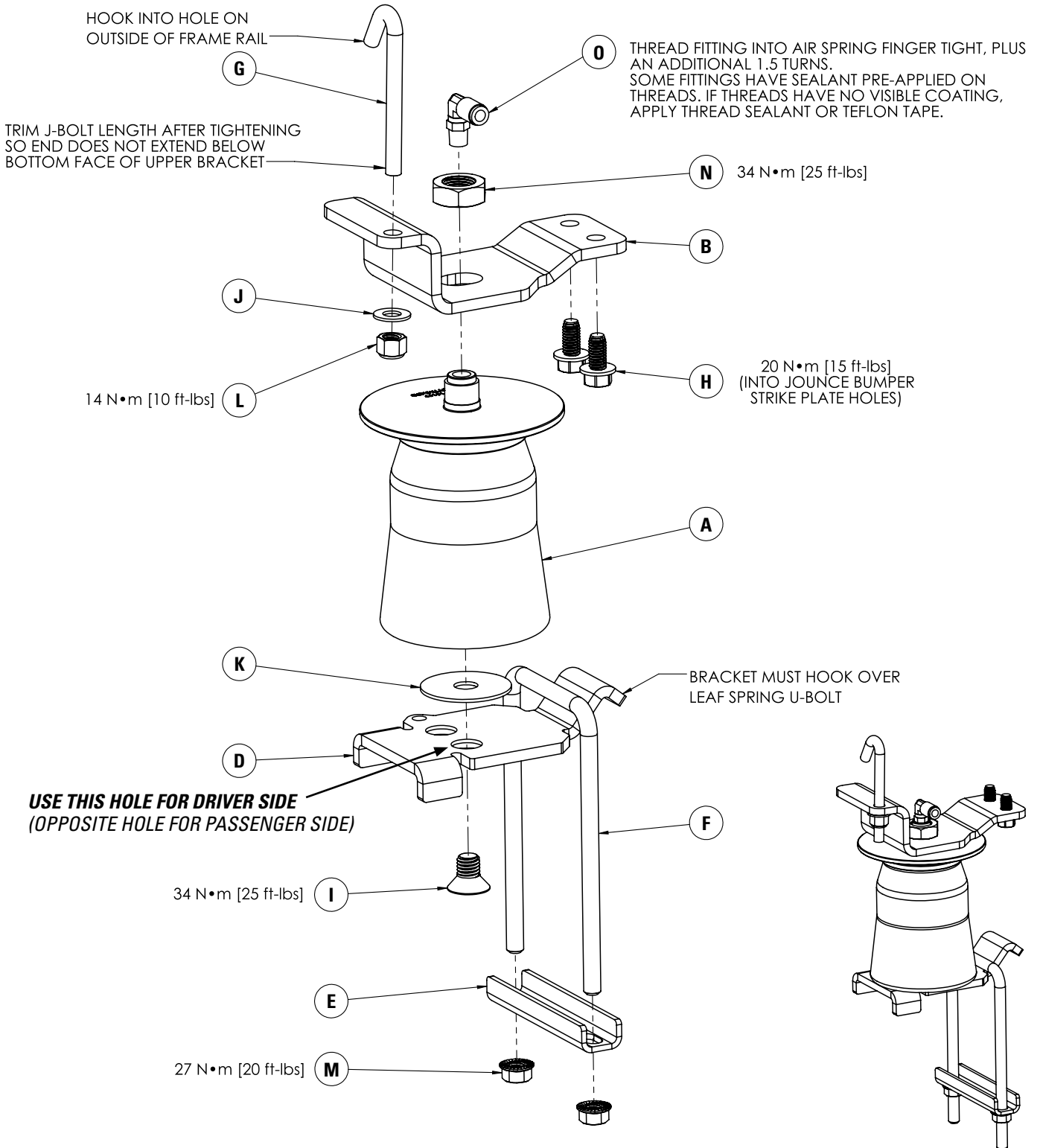
KIT CONTENTS		QTY	PART #
<b>A</b>	Air Spring 5" Sleeve Style	2	HP10199
<b>B</b>	Upper Bracket (Driver Side)	1	HP1566
<b>C</b>	Upper Bracket (Passenger Side)	1	HP1567
<b>D</b>	Lower Bracket	2	HP1568
<b>E</b>	Clamp Bracket	2	HP0113
<b>F</b>	U-Bolt	2	HP1018
<b>G</b>	J-Bolt	2	HP1337
<b>H</b>	Bolt, 3/8" - 16 x 3/4" Self Threading Flange	4	HP1569
<b>I</b>	Bolt, 1/2" - 13 x 3/4" Flat Head	2	HP1342
<b>J</b>	Washer, 3/8" Flat	2	C653
<b>K</b>	Washer, 1/2" x 2" OD Thin Flat	2	HP1010
<b>L</b>	Nut, 3/8" Nylon Lock	2	HP1000
<b>M</b>	Nut, 3/8" Serrated Flange	4	HP1338
<b>N</b>	Nut, 3/4" Jam	2	HP1076
<b>O</b>	90° Swivel Fitting 1/4" Hose to 1/8" NPT	2	HP1019
<b>P</b>	Heat Shield	1	HP0012
<b>Q</b>	Worm Gear Ring Clamp	2	HP1001

### REQUIRED TOOLS

- Hoist or Floor Jack
- Safety Stands
- Safety Glasses
- Torque Wrench
- Standard Combination Wrenches
- 7/32" Hex Allen Wrench
- 1-1/8" Wrench or Deep Socket
- Ratchet
- Metric & Standard Sockets
- Hose Cutter (included) or Sharp Utility Knife
- Pipe Thread Sealant
- Spray Bottle with Dish Soap/Water
- Air Compressor/Compressed Air Source (to test/fill air springs)

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

**DRIVER SIDE ASSEMBLY SHOWN (MIRRORED FOR PASSENGER SIDE):**



**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 MEASURE STOCK RIDE HEIGHT**

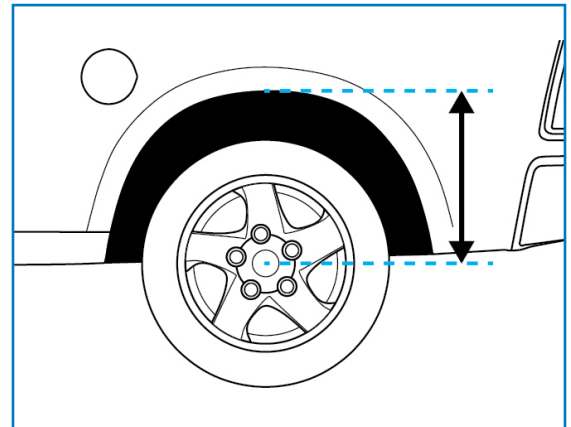
Park the vehicle on a level surface.

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**

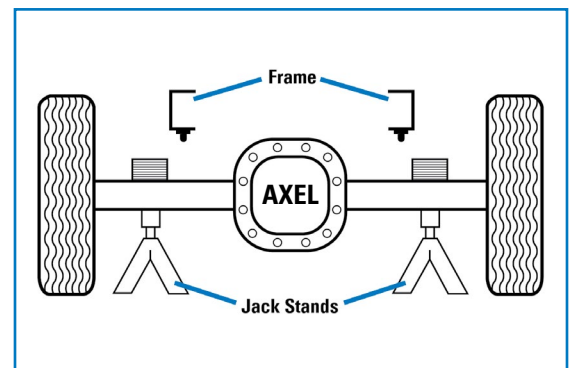
Place wheel chocks in front of and behind both front wheels.

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 ASSEMBLE THE AIR SPRING

Place the Driver Side upper bracket (HP1566) on top of the air spring and secure with jam nut.

Torque jam nut to 34 N•m (25 ft-lbs)

Install the 90° swivel air fitting into the air spring, finger tight, then tighten an additional 1 to 1.5 turns.

#### Turn over the air spring assembly.

Place a 1/2" flat washer over the hole in the bottom of the air spring.

Then (using Figure 3B as reference), line up the "Driver Side" hole in the lower bracket (shown with a black arrow) and secure it with a flat socket head bolt.

Torque bolt to 34 N•m (25 ft-lbs).

- ⓘ Ensure the edges of the upper and lower brackets are parallel and oriented (as shown in Figure 3A).

#### Repeat for second air spring with Passenger Side upper bracket (HP1567)

- ⚠ **PLEASE NOTE:** Passenger Side lower bracket uses the opposite hole from the one used on the Driver Side. (Passenger side shown with a white arrow in Figure 3B).

### 4 PREPARE JOUNCE BUMPER STRIKE PLATE

Locate 8mm holes in each jounce bumper strike plates on each side, on underside of frame rail.

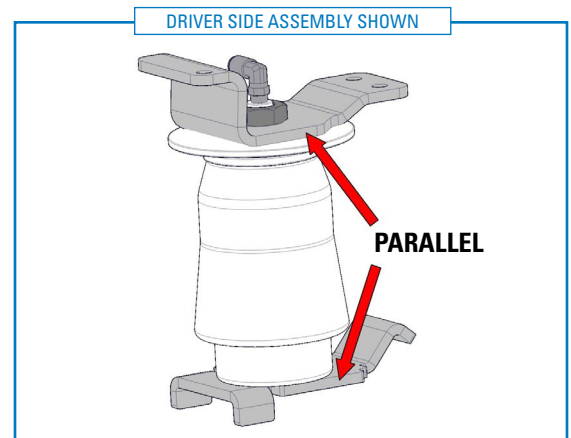
Thread self-tapping bolt into 8mm hole until bolt head is approximately 1/4" from strike plate.

Once complete, remove bolt.

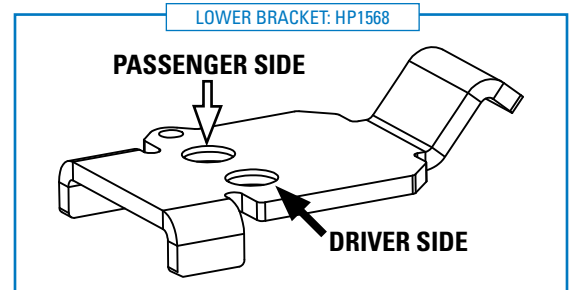
Repeat for the remaining 8mm holes.

### 5 RELOCATE E-BRAKE CABLE

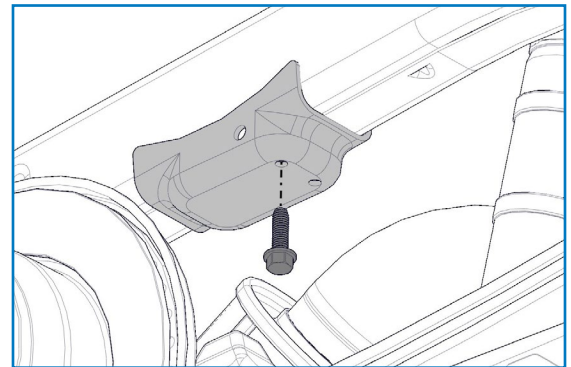
Relocate passenger e-brake cable from upper loop to lower loop of bracket.



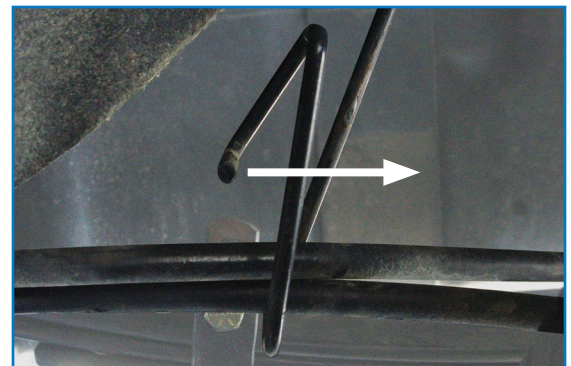
3A



3B



4



5



## 6 INSTALL AIR SPRING ASSEMBLY

Compress the air spring assembly by hand as needed to fit between the top of leaf spring and frame.

The air spring should sit forward of the axle, with the lower bracket "finger" hooked over the axle U-bolt (as shown in Figure 6A).

Place the square U-bolt over the lower bracket and leaf springs.

Install the clamp and secure with flange nuts.

Torque to 27 N•m (20 ft-lbs)

Trim the ends of the U-bolt that extend past nut.

Hook the J-bolt into the opening on outside of the frame rail, install the washer and thread on the Nyloc nut, but do not tighten.

Lightly coat the self-tapping bolts with anti-seize compound and insert through the upper bracket to secure it to strike plate/frame (as shown in Figure 6B).

Torque self-tapping bolts to 20 N•m (15 ft-lbs)

Torque Nyloc nut on J-bolt to 14 N•m (10 ft-lbs)

**Repeat for opposite side.**

## 7 SECURE E-BRAKE CABLE

Loosely secure the passenger e-brake cable to the lower bracket on driver side using tie strap (as shown in Figure 7).

## 8 INSTALL HEAT SHIELD

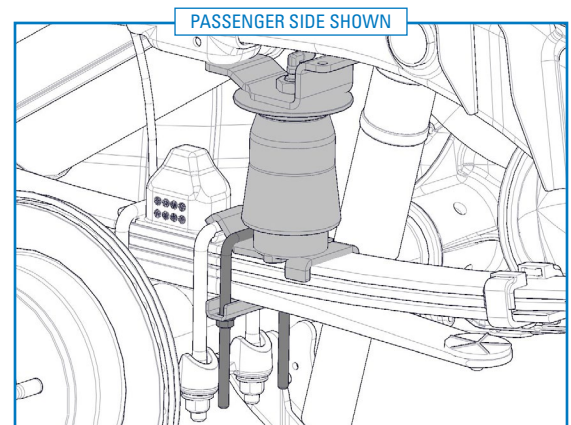
Bend the tabs on heat shield so that there will be the necessary 1/2" dead space between the heat shield and the exhaust when the heat shield is attached.

Attach the heat shield to exhaust pipe using the supplied worm gear clamps.

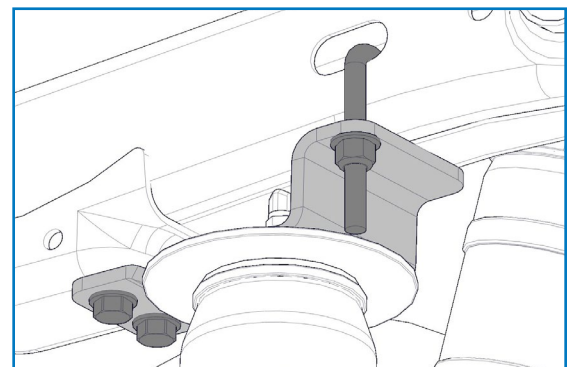
Each hose clamp holds a bent tab against the exhaust pipe.

Ensure heat shield faces toward the air spring (as shown in Figure 8).

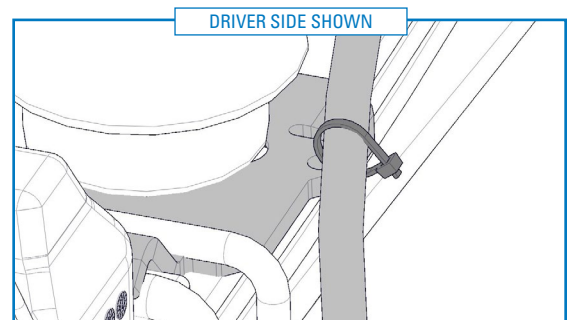
**⚠ Diesel model exhaust shown as the example. Gas model's will mount the heat shield in similar location.**



6A



6B



7



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## 9 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.

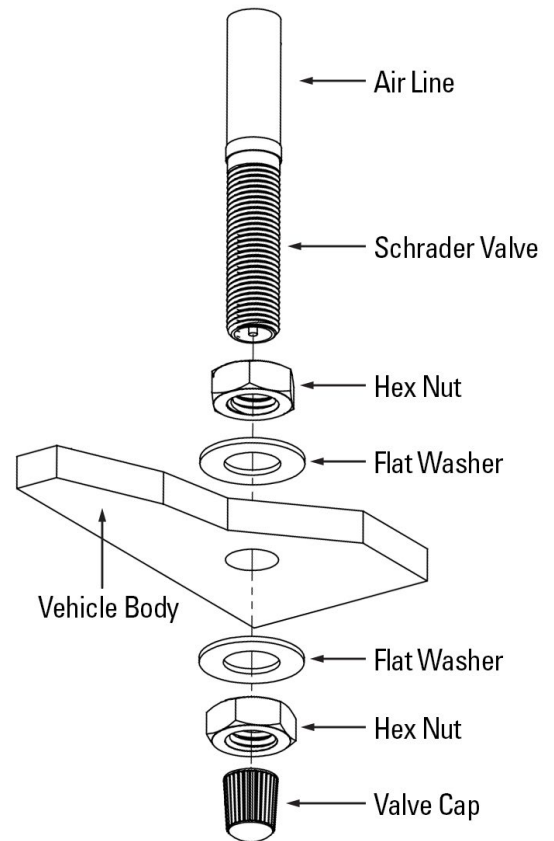
Place a 5/16" nut on the air valve. Leave enough of the inflation valve in front of the nut to extend through the hole, install a flat washer, and 5/16" nut and cap (reference Figure 9 for assembly). There should be enough valve exposed after installation—approximately 1/2"—to easily apply a pressure gauge or an air chuck.

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

## 10 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 10). 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.



9



10

## 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.

**⚠ 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.**

***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

***The owner's warranty will be void if air springs are run with less than the minimum of 10 psi. See additional warranty for details.***