

Installation Manual



10339 KIT

Chevrolet Colorado / GMC Canyon (2WD/4WD)*
Including ZR2

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.

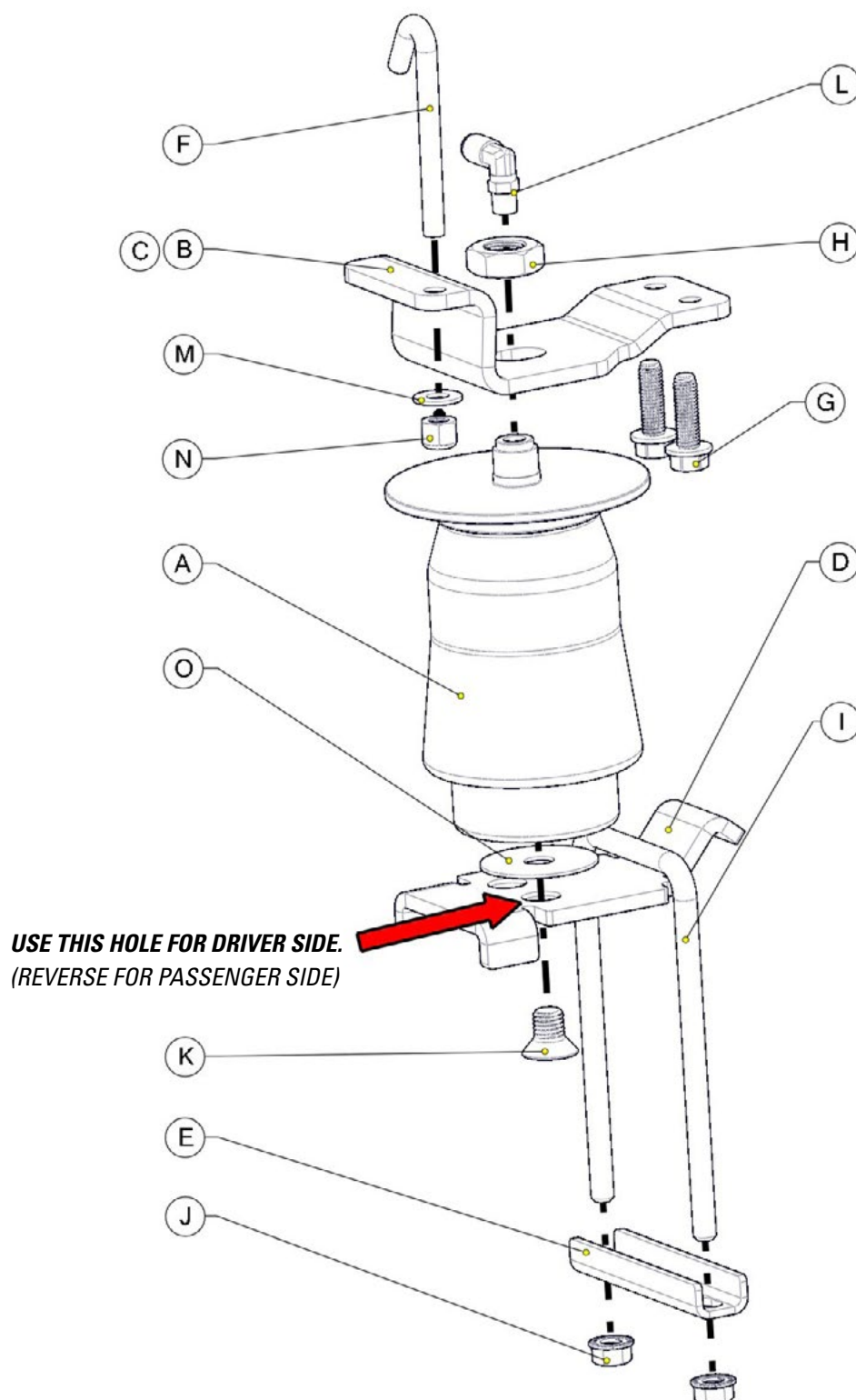
KIT CONTENTS

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

KIT CONTENTS		QTY	REQUIRED TOOLS
A	Air Spring	2	• Hoist or Floor Jack
B	Upper Bracket (Driver Side) HP1566	1	• Safety Stands
C	Upper Bracket (Passenger Side) HP1567	1	• Safety Glasses
D	Lower Bracket	2	• Torque Wrench
E	Clamp	2	• Standard Combination Wrenches
F	J-Bolt, 3/8"-16 x 3.75" LG.	2	• 7/32" Hex Allen Wrench
G	Self-Tapping Bolt, 3/8"-16 x 3/4" LG.	4	• 1-1/8" Wrench or Deep Socket
H	Jam Nut, 3/4"-16	2	• Ratchet
I	Square U-Bolt, 3/8"-16 x 3.125" I/S x 6.25" LG.	2	• Metric & Standard Sockets
J	Flange Nut, 3/8"-16	4	• Hose Cutter (included) or Sharp Utility Knife
K	Flat Socket Head Cap Screw, Countersunk, 1/2"-13 x 3/4"	2	• Pipe Thread Sealant
L	90° Swivel Brass Air Fitting	2	• Spray Bottle with Dish Soap/Water
M	Flat Washer, 3/8"	2	• Air Compressor/Compressed Air Source (to test/fill air springs)
N	Nyloc Nut, 3/8"-16	2	
O	Flat Washer, 1/2"	2	
P	Tie Straps (<i>not shown</i>)	8	
Q	Heat Shield (<i>not shown</i>)	1	
R	Worm Gear Ring Clamp (2 1/2" to 4 1/2" I.D.) (<i>not shown</i>)	2	
S	Tube Cutter (<i>not shown</i>)	1	
T	Air Line w/ Schrader Valves (<i>not shown</i>)	1	

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.

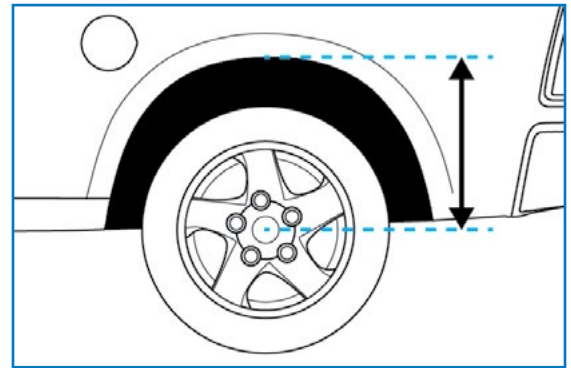
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1 MEASURE STOCK RIDE HEIGHT

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

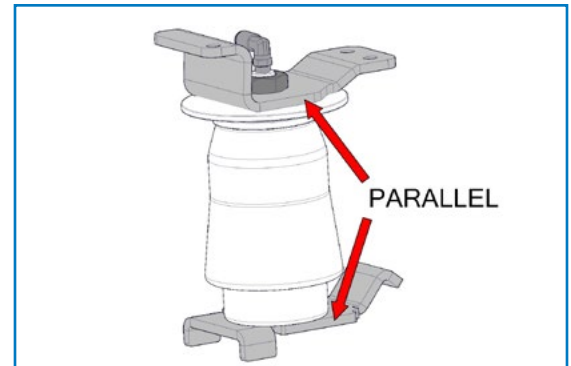
3 ASSEMBLE THE AIR SPRING

Place Driver Side upper bracket (HP1566) on air spring, secure with jam nut. Torque to 25 ft.-lbs (34 N-m).

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

Turn over air spring, place 1/2" flat washer on air spring, then lower bracket. Insert flat socket head cap screw, countersunk, torque to 25 ft.-lbs. (34 N-m). Ensure edges upper and lower brackets are parallel and oriented (as shown in Figure 3).

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



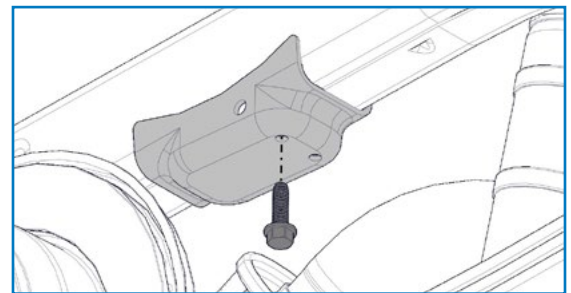
3

4 PREPARE JOUNCE BUMPER STRIKE PLATE

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

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

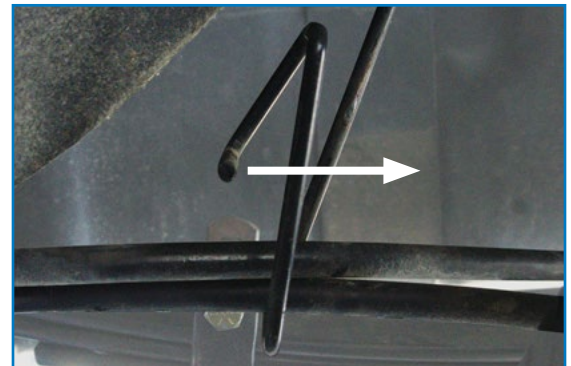
Repeat for remaining 8 mm holes.



4

5 RELOCATE E-BRAKE CABLE

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



5

6 INSTALL AIR SPRING ASSEMBLY

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

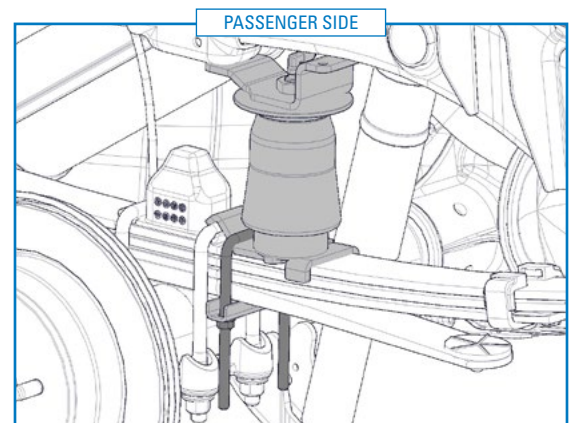
Air spring should sit forward of the axle, with lower bracket "finger" hooked over axle U-bolt (as shown in Figure 6A).

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

Install clamp and secure with flange nuts.

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

Trim ends of U-bolt that extend past nut (optional).



6A

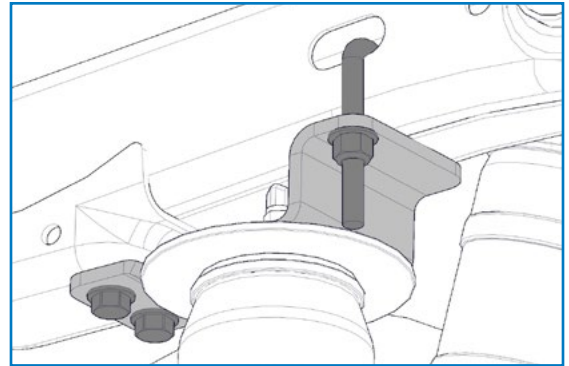
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Hook J-bolt into opening on outside of frame rail, install washer and thread on Nyloc nut. Do not tighten.

Lightly coat self-tapping bolts with anti-seize compound and insert through upper bracket to secure it to strike plate/frame (as shown in Figure 6B). Torque to 15 ft.-lbs. (20 N-m).

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

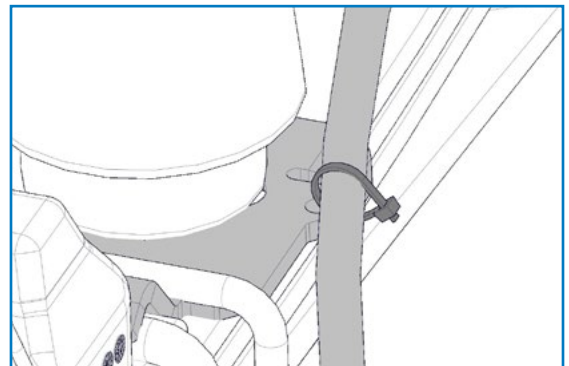
Repeat for opposite side.



6B

7 SECURE E-BRAKE CABLE

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



7

8 INSTALL HEAT SHIELD

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

Attach heat shield to exhaust pipe using worm gear clamps. Each hose clamp holds a bent tab against the exhaust pipe. Ensure heat shield faces toward air spring (as shown in Figure 8).

Diesel model exhaust shown. Gas models mount heat shield in similar location.



8

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.

... Step Continues on Following Page

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.

AFTER COMPLETING THE INSTALLATION

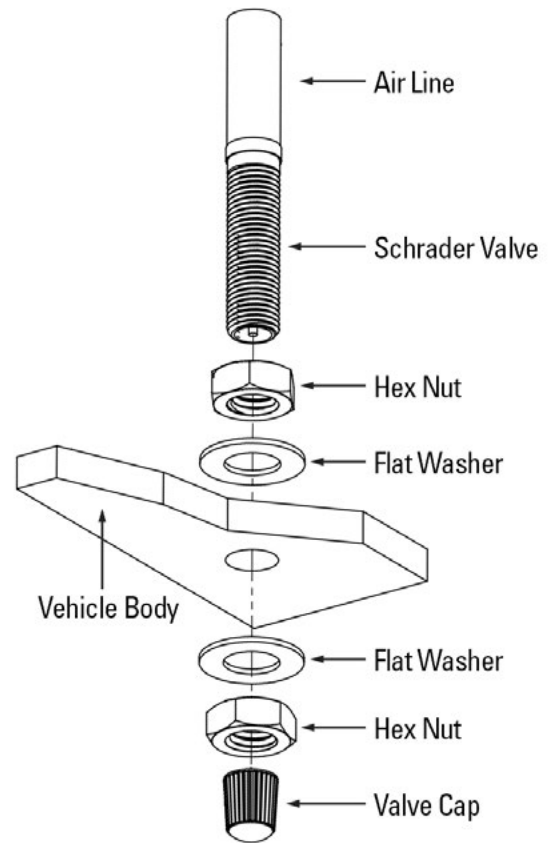
PLEASE REMEMBER:

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.



9



10

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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