

Installation Manual



10302

Air Spring Accumulator Tank Kit

Increases the working volume of your air spring system and reduces the harsh ride associated with some air springs



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.



Thank you and congratulations on the purchase of an Air Spring Accumulator Tank Kit.

This kit was designed to increase the working volume of your air suspension spring system and reduce the harsh ride associated with some air springs.

Please read the entire installation manual prior to starting the installation to ensure you can complete the installation once started.

KIT CONTENTS

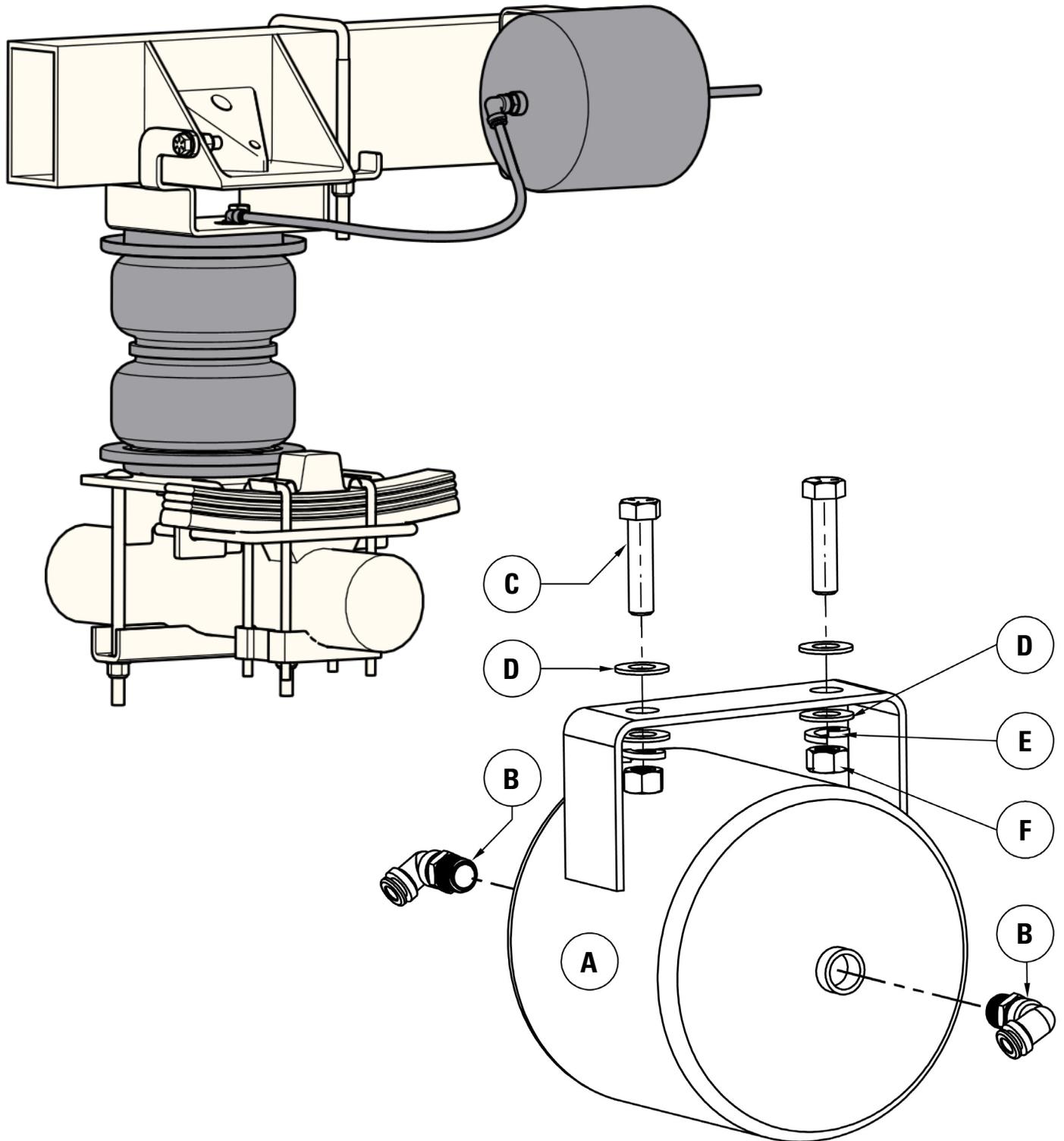
Reference the kit explosion diagram on the following page for part assembly.



KIT CONTENTS			REQUIRED TOOLS	
	QTY	PART #		
A Auxiliary Air Tank, 1/2 Gallon	2	C11940	• Hoist or Floor Jack	• Safety Stands
B 1/4" NPT 90° Fittings	4	C10527	• Safety Glasses	• Torque Wrench
C 3/8" x 1.5" NC Hex Head Cap Screw	4	C18018	• Pipe Thread Sealant	• Ratchet
D 3/8" Flat Washer	8	C653	• Standard Combination Wrenches	
E 3/8" Lock Washer	4	C18007	• 7/32" Hex Allen Wrench	
F 3/8" NC Nut	2	C11572	• 1-1/8" Wrench or Deep Socket	
G Nylon Air Brake Tube	192"	M8280	• Metric & Standard Sockets	
H Nylon Hose Cutter (<i>not shown</i>)	1	HP10208	• Spray Bottle with Dish Soap/Water	
I Zap Straps	8	C11618	• 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.

ASSEMBLY SHOWN:



BEFORE STARTING THE INSTALLATION:

1. If your vehicle is already equipped with air bags it will be necessary to support the axle. Letting the axle hang under the vehicle with no support can over extend the air bag and cause damage to it. Failure in doing so may result in a void warranty.
2. 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.

Raise the rear axle high enough to obtain a comfortable working height, it may be necessary to remove both rear wheels.

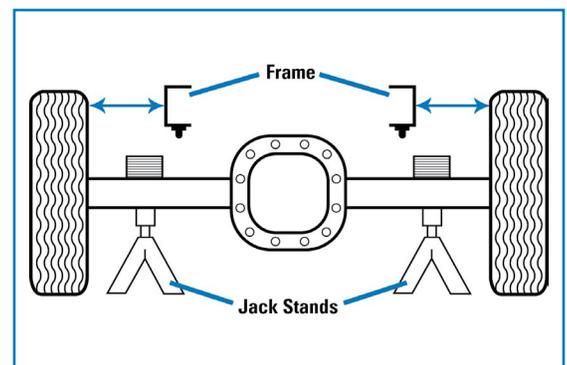
2 INSTALL THE AUXILIARY TANK

Install the air fittings into the tank according to the kit contents diagram on the previous page.

Choose two suitable mounting locations under your vehicle for the air tanks.

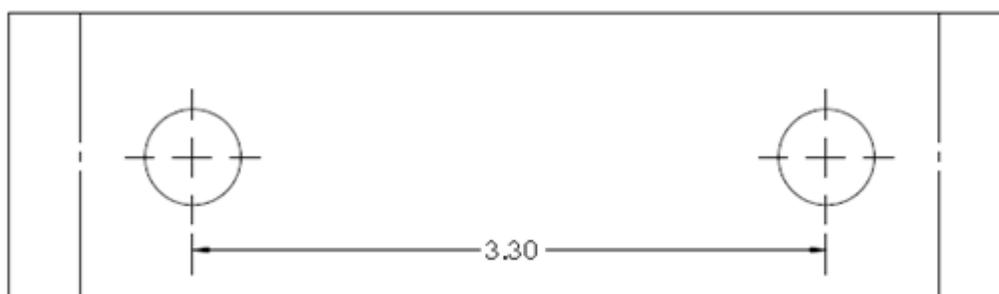
Cut out Figure 2 "Drill Template" below and use it as a template for drilling the mounting holes.

Drill four holes using a 3/8" drill bit and mount the air tanks with the supplied fasteners.



1

DRILL TEMPLATE



PLEASE NOTE: If printing out the Drill Template online, make sure your printer is not scaling the image or stretching it. Open your print dialogue box and select print at 100% scale.

2

3 INSTALL THE AIRLINE

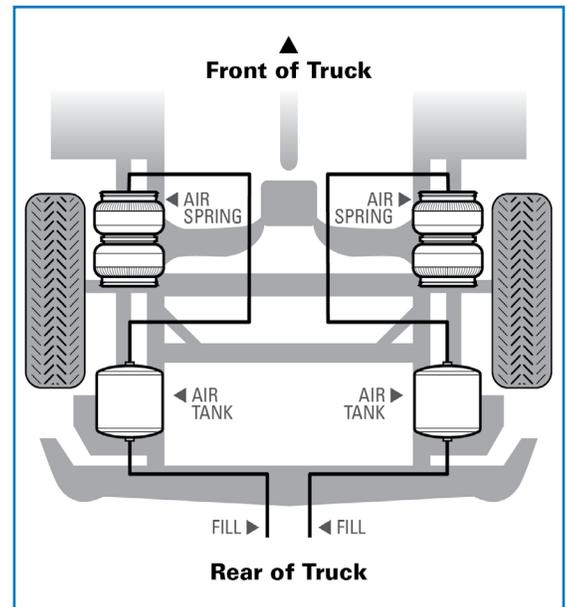
Using the supplied nylon hose cutter* and black nylon air line, install the air tanks into the system according to Figure 3.

***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**

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.



3

4 CHECK SYSTEM FOR LEAKS

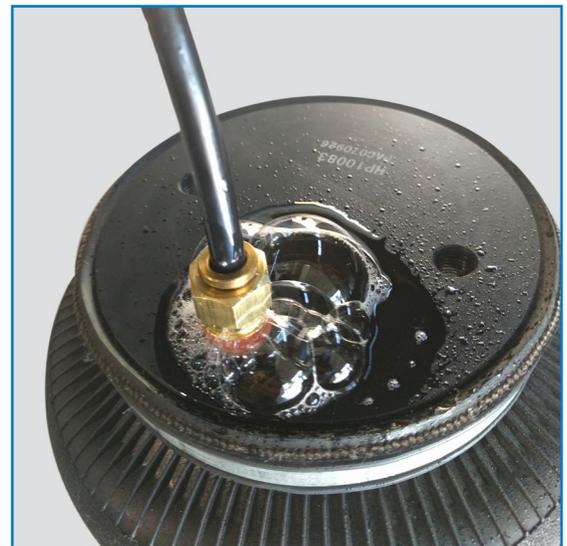
Inflate both air springs to 90 PSI, and then use a mixture of dish soap and water on all air line connections to detect any air leaks (as shown in Figure 4).

Repair as necessary and retest.

Inflate the air springs to a predetermined value, and on the following day recheck 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.



4

5 AFTER THE INSTALLATION IS COMPLETED

Install the wheels (if they were removed), and torque the fasteners to the manufacturer's specifications.

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 (see Warranty Note on following page).

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.

