

## LEVEL COMMAND

### INSTALLATION INSTRUCTIONS

Congratulations on your purchase of a new Level Command kit. This kit was designed to provide inflation control of your air helper springs. This kit will be an asset to your vehicle, meeting nearly all of your air supply needs.

Please take a few minutes to read through the instructions, identify the components, and learn how to properly install your Level Command kit.

#### NOTE:

*The Level Command kit can be used with all air helper spring products. If you are installing an air suspension system, do not install the air line tubing to the air springs as stated in the suspension system instruction manual. If you are adding the Level Command kit to an existing air suspension system, you will need to deflate the air springs and remove the air line tubing.*

### NOTE ON CONNECTING THE AIR LINE TUBING:

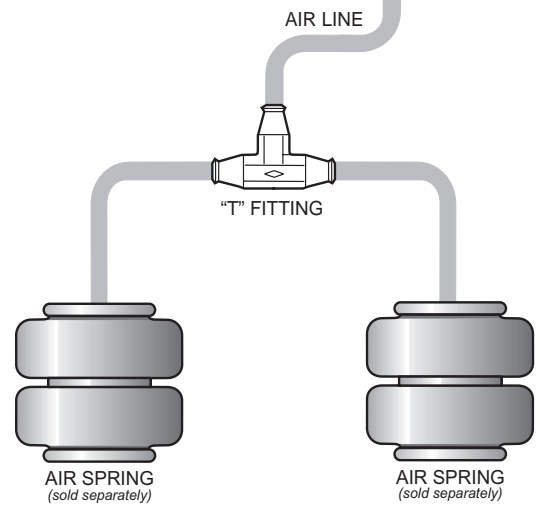
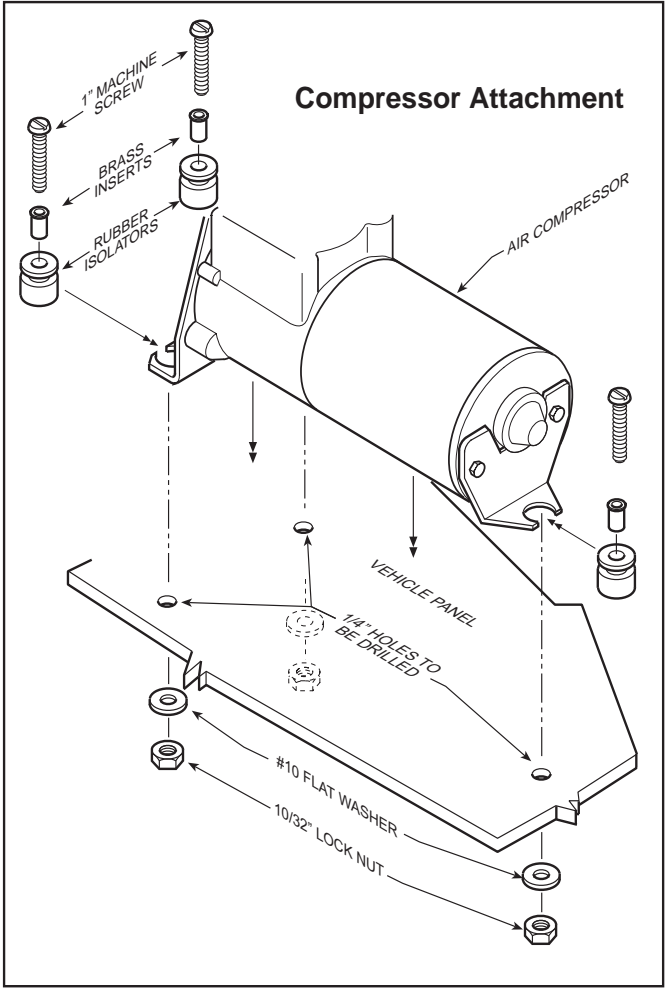
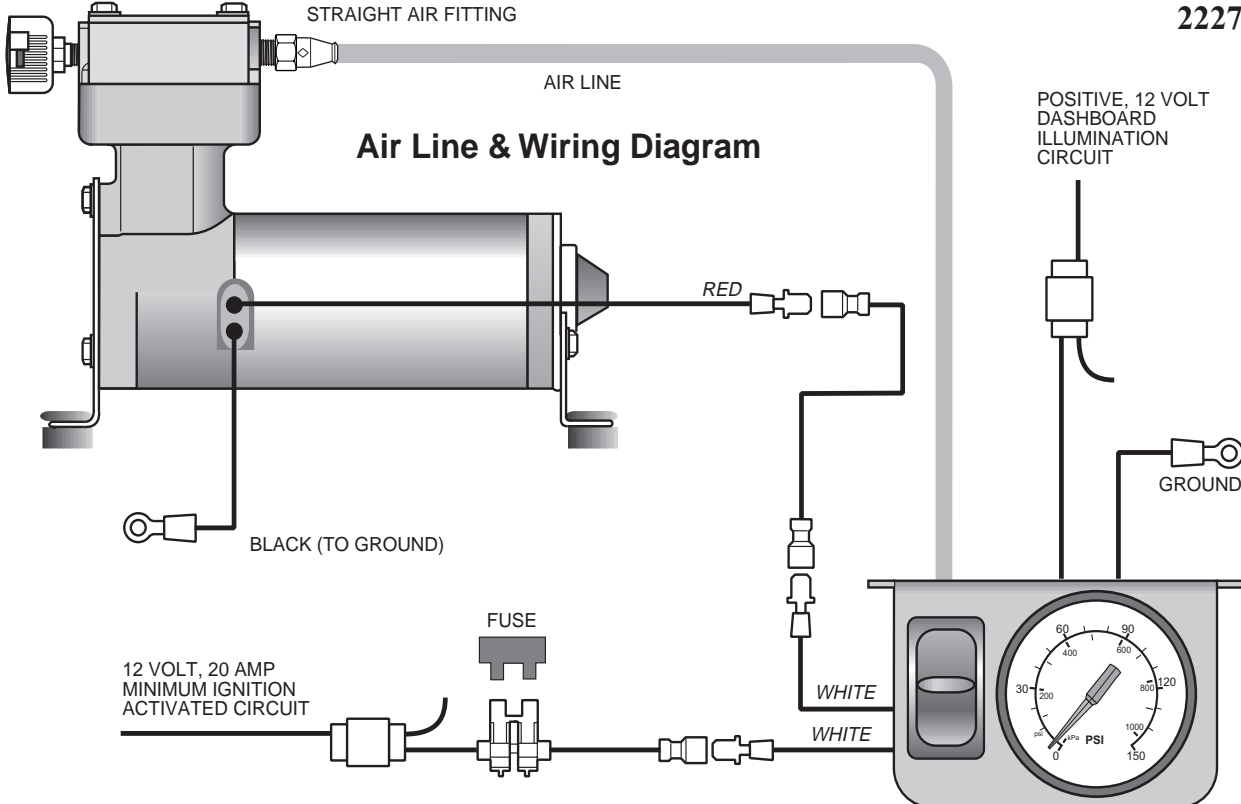
Cut the air line tubing as squarely as possible. To connect the air line tubing to the fittings, push the tubing into the fittings as far as possible. If for any reason the tubing must be removed, first release the air pressure from the air helper spring. Push the collar toward the body of the fitting and pull out the tubing. To reassemble, make sure the tubing is cut squarely and push the tubing back into the fitting.

### TOOLS REQUIRED:






- 3/16" DRILL BIT
- 1/4" DRILL BIT
- WIRE CRIMPER/STRIPPER
- PHILLIPS SCREW DRIVER
- (2) 7/16" WRENCHES
- 3/8" DRILL BIT
- POWER DRILL
- PLIERS
- UTILITY KNIFE
- CENTER PUNCH

### PARTS LIST

SINGLE AIR CONTROL PANEL	1	#10 FLAT WASHER	7
COMPRESSOR 9210	1	15 FT. 16 GAGE WIRE	1
30 FT. AIR LINE TUBING	1	IN-LINE FUSE HOLDER	1
1/8" NPT PUSH-TO-CONNECT STRAIGHT FITTING 3055	1	20 AMP BLADE FUSE	1
PUSH-TO-CONNECT T-FITTING 3025	2	FEMALE SPADE CONNECTOR	2
10 -32 x 1" MACHINE SCREW	5	MALE SPADE CONNECTOR	1
10 -32 LOCK NUT	5	RING TERMINAL	1
		WIRE CONNECTOR	2
		NYLON TIE	15



**Connectors:**

-  Male spade connector
-  Female spade connector
-  Ring Terminal
-  Wire connector
-  Inline fuse connector

**Figure "A"**

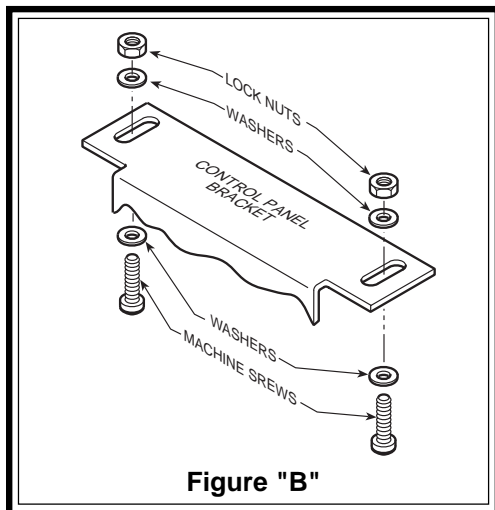


Figure "B"

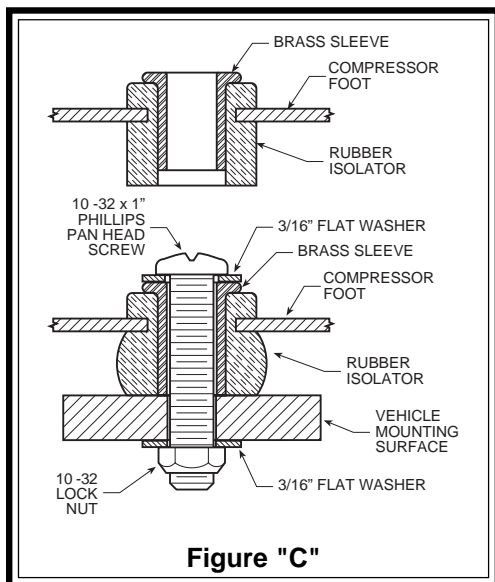


Figure "C"

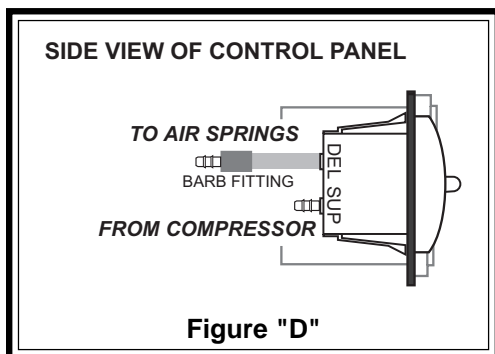


Figure "D"

### STEP 1 - SELECT A MOUNTING LOCATION FOR THE CONTROL PANEL

Select a mounting surface under the dashboard or other protected location. Using the control panel as a template, mark each of the mounting points with a center punch. Drill a 3/16" diameter hole on each center mark *see Figure "B"*. Do not attach the control panel at this time.

### STEP 2 - PREPARE THE COMPRESSOR

Install the rubber isolator feet to the compressor from the bottom of the compressor foot. Insert the brass sleeve into the top of the rubber isolator foot *see Figure "C"*. Install the push-to-connect male fitting into the threaded exhaust port on the compressor head *see Figure "A"*. Tighten the fitting sufficiently to engage *at least two threads* with pre-applied orange thread sealant. **DO NOT OVERTIGHTEN THE FITTING**. Install the air filter into the threaded inlet port on the compressor head (*finger tight*).

### STEP 3 - MOUNT THE COMPRESSOR

Begin by removing the negative battery cable. Select a convenient location to mount the compressor. This location should provide ample air flow and be protected from airborne debris and moisture. The mounting surface should be rigid to support the compressor, such as under the hood on a fender well or in a vented storage compartment. The compressor is oil-less and can be mounted in any orientation necessary for installation.

Using the compressor template and a center punch, mark and drill three 3/16" holes. Any burrs in the holes should be removed to prevent damage to the rubber isolators. Mount the compressor using the supplied 10 -32 x 1" machine screws, 10 -32 lock nuts, and 3/16" washers *see Figure "C"*. Maximum vibration isolation can be achieved by properly mounting the compressor. The machine screw and nut should be tightened only enough to bottom-out the brass insert *see Figure "C"*. **DO NOT OVERTIGHTEN**. Overtightening will crush the brass insert and the rubber isolator, thereby reducing vibration isolation.

### STEP 4 - ROUTE THE AIR LINE

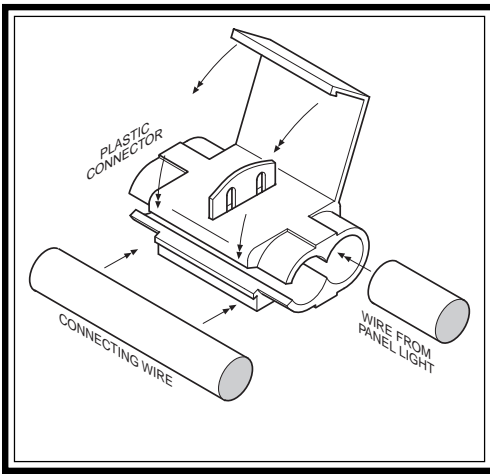
Before installing the air line tubing, ensure that there is no pressure in the air springs. To release the air pressure, remove the valve core from the manual inflation valves or release the pressure by using a tire gauge to depress the valve stem.

#### A) COMPRESSOR TO CONTROL PANEL

Cut a piece of air line tubing that will reach from the control panel to the compressor. Cut the air line tubing as squarely as possible and install the tubing on to the barbed fitting on the back of the switch marked SUP (supply) *see Figures "A" & "D"*. Before attaching the air line tubing to the control panel, soak the end (1") of the air line in warm water for a few minutes to soften the tubing. Do not use pliers to work the tubing on to the barbed fitting, as the tubing may be damaged. It may be necessary to drill a hole in the firewall to route the tubing. *Do not fold or kink the tubing*. Ensure that the tubing is protected from sharp edges when passing through the firewall.

#### B) CONTROL PANEL TO AIR SPRINGS

Cut a length of air line tubing that will reach from the control panel to the rear of the vehicle. Slide the tubing as far as possible onto the barbed fitting marked DEL (delivery) on the back of the paddle switch *see Figures "A" & "D"*. Before attaching the air line tubing to the barbed fitting on the gauge panel, soak the end of the tube (1") in hot water for a few minutes to soften the tubing. Do not use pliers to work the tubing on to the barbed fitting, as the tubing may be damaged. Install a T-fitting on the opposite end of the tubing at the rear of the vehicle. Route a length of air line tubing from the T-fitting to each air spring. Use the supplied nylon ties to secure the tubing to the vehicle. Make sure that the tubing is protected from sharp edges when passing through the firewall.



## STEP 6 - ATTACH THE CONTROL PANEL TO THE DASHBOARD

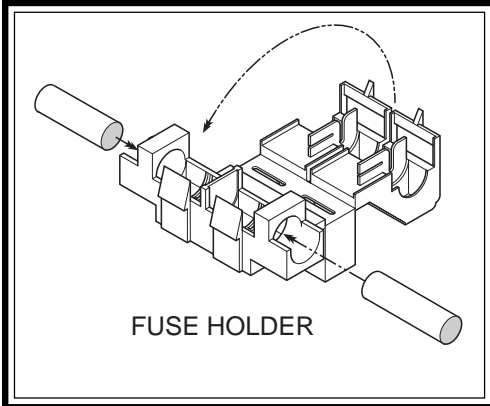
Place the air control panel on the dash where the holes were drilled in *Step 1*. Using the provided machine screws, lock nuts, and washers attach the air control panel to the dashboard or selected mounting surface *see Figure "B"*.

## STEP 7 - ROUTE THE ELECTRICAL WIRE

All necessary 16 gage electrical wire and connectors are enclosed with the kit. Review the electrical schematic before beginning installation *see Figure "A"*.

Cut a length of 16 gage wire that will reach from the positive wire (red) on the compressor to either white wire on the control panel. Strip 1/4" off each end of the 16 gage wire and crimp a female spade connector on to each end. Crimp a male spade connector on to the positive wire (red) from the compressor. Attach the 16 gage wire to the positive compressor wire by pushing the female and male spade connectors together. Attach the other end of the 16 gage wire to *either* white wire on the control panel in the same manner.

Cut another length of 16 gage wire that will reach from the control panel to a positive 12 Volt, 20 Amp minimum, ignition activated power source. Strip 1/4" off one end of the 16 gage length and crimp a female spade connector onto the wire. Attach the wire to the remaining white wire on the control panel by pushing the male and female spade connectors together. Attach the wire from the control panel to the power source using the supplied wire connector. Slide the wire connector over the existing power wire, then slide the un-stripped compressor wire into the wire connector. Close the wire connector over both wires with pliers *see Figure "E"*. Next, install the in-line fuse holder. Cut the compressor wire near the power source. Insert the un-stripped ends of the wires into the fuse holder. Use pliers to close the fuse holder over the wires and insert the 20 Amp blade fuse *see Figure "F"*.



## STEP 8 - WIRE THE CONTROL PANEL FOR ILLUMINATION

There are two wires (one red and one black) attached to the gauge on the back of the control panel. Connect the red wire to a fused dashboard illumination wire. Connect the black wire to a suitable ground source *see Figure "G"*.

Attach the end of the positive wire to a dashboard illumination wire using a wire connector. Slip the wire connector over the existing dashboard illumination wire and insert the un-stripped gauge panel wire into the wire connector. Close the wire connector over the wires with pliers *see Figure "E"*. Attach the black wire to a ground source by crimping a ring connector on to the wire and securing it to a suitable ground source on the vehicle. *Note:* Should additional wire be necessary to reach the dashboard illumination wire and ground source, use 16 gage multi-strand wire.

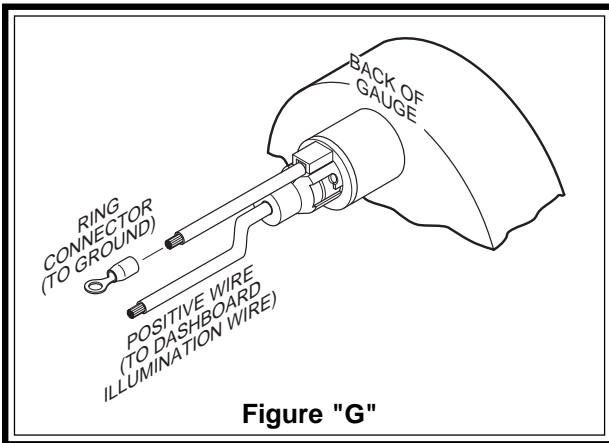


Figure "G"

## STEP 9 - CHECK THE SYSTEM

With the Level Command kit and your air helper springs installed, you are ready to test the system. Reattach the negative battery cable. Turn on the vehicle's ignition. Push the paddle switch up to inflate the air springs. The gauge will display how much air pressure is in the air springs. Inflate the air helper springs to 70 psi and check the fittings for air leaks with an applied solution of soap and water. If a leak is detected at a tubing connection, check to make sure that the tube is cut as square as possible and that it is pushed completely into the fitting. The tubing can easily be removed from the fitting. First, release the pressure from the air spring. Push the collar towards the body of the fitting and pull out the tube.

## SYSTEM OPERATION

The Level Command kit allows the air springs to be inflated from the inside of the vehicle. Push the paddle switch up to inflate the air springs and push the paddle switch down to deflate the air springs.

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