

## Dual Air Command III

### INSTALLATION INSTRUCTIONS

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

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

#### NOTE:

The Dual Air Command III kit can be used with most air helper spring products. If you are installing an air helper spring kit, do not install the air line tubing into the air springs as stated in the air helper spring manual. If you are adding the Dual Air Command III kit to an existing air helper spring 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 square as possible. To connect the air line tubing to the fitting, push the tubing into the fitting as far as possible, see Figure "C". If for any reason the tubing must be removed, first release the air pressure from the air system, then push the collar toward the body of the fitting and the tubing can be removed. To reassemble, make sure the tubing is cut square and push the tubing back into the fitting.

### PARTS LIST

COMPRESSOR	9287	1	FEMALE FITTING	1
AIR TANK	9413	1	T FITTING	3
PRESSURE SWITCH	9016	1	MAILE FITITNG	2
DUAL AIR CONTROL PANEL		1	INFLATION VALVE	1
30' AIR LINE TUBING	9416	2	NYLON TIE	15
25' EXTENSION HOSE		1	15', 18 GAGE WIRE	1
10-32 X 1" MACHINE SCREW		6	15', 16 GAGE WIRE	1
10-32 LOCK NUT		6	FEMALE TERMINAL	2
#10 FLAT WASHER		12	MALE TERMINAL	1
3/8"-16 X 1" HEX BOLT		2	RING TERMINAL	1
3/8"-16 FLANGED HEX NUT		2	WIRE CONNECTOR	2
3/8" FLAT WASHER		2	IN-LINE FUSE HOLDER	1
5/16" FLAT WASHER		2	30 AMP FUSE	1

### STEP 1—PREPARE THE COMPONENTS

#### A) COMPRESSOR

Install the 1/4 NPT fitting onto the end of the stainless steel leader hose coming out of the compressor. Install the air filter onto the compressor, **as shown in Figure "A"**.

#### B) AIR TANK

Thread two 1/4 NPT fittings and pressure switch into the air ports on the air tank, **see Figure "A"**. Tighten the fittings securely to engage at least two threads with the pre-applied orange thread sealant.

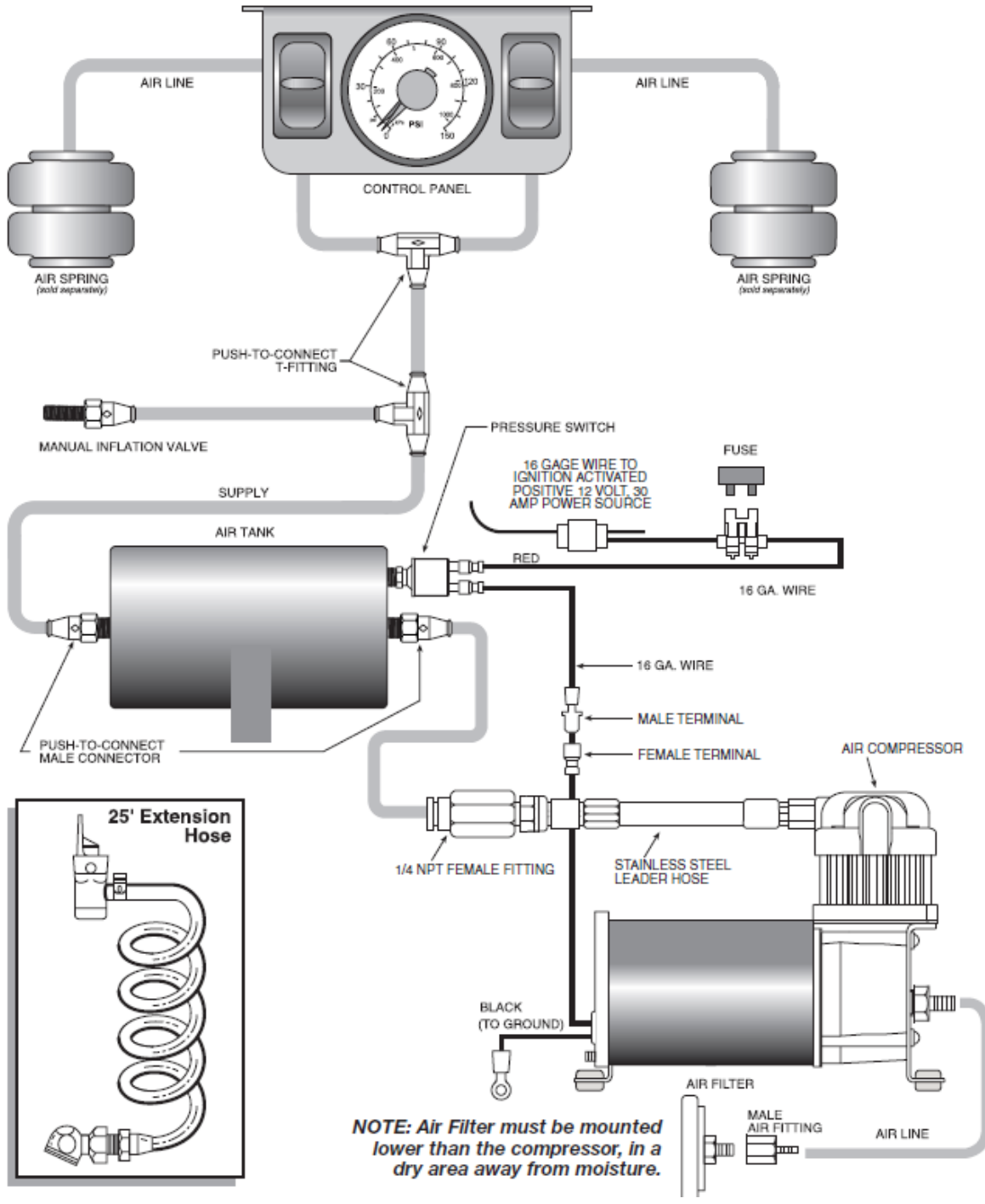
#### C) CONTROL PANEL

Cut two pieces of air line tubing 3-1/2" in length, making the cut as square as possible. Insert one end of each 3-1/2" piece of air line into the hole marked **IN** on the back of the paddle switches **see Figure "C"**. Insert the remaining ends of the tubing into a push-to-connect T-fitting **see Figure "A"**.

### STEP 2—SELECT A MOUNTING LOCATION

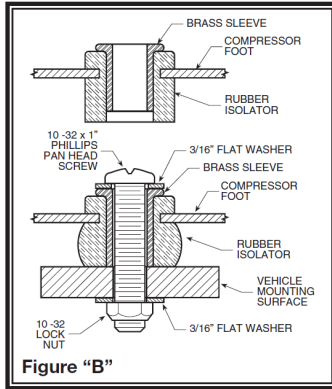
#### A) COMPRESSOR ATTACHMENT

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.



**Connectors:**

	Female Terminal Connector		Wire Connector		Inline Fuse Holder		Ring Terminal		Male Terminal
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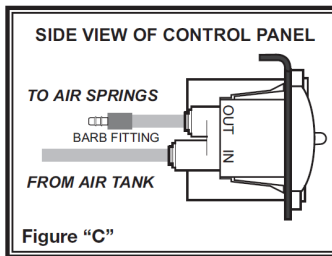
Using the compressor as a template drill four 3/16" holes in the mounting surface. Any burrs in the holes should be removed to prevent damage to the rubber isolators. Mount the compressor using the supplied 10-32 x 1" machine screws, 10-32 lock nuts and #10 washers, **see Figure "B"**. The machine screw and nut should be tightened only enough to bottom-out the brass insert **see Figure "B"**. Do not over tighten the bolt. By over tightening will crush the brass insert and the rubber isolator, thereby reducing vibration isolation. Attach the ring terminal on the negative wire to a suitable ground source on the vehicle.

### B) AIR TANK ATTACHMENT

Select a location to mount the air tank close to the air compressor. This should be in a protected location to prevent damage from rocks or airborne debris. Mark and drill two 7/16" holes 2-1/2" apart. Bolt the air tank in place using the 3/8"-16 x 1-1/2" hex bolts with the 3/8"-16 flanged hex nuts and the 3/8" washers. Ensure that the installation allows unrestricted access to the air prints on the tank.

### C) CONTROL PANEL ATTACHMENT

Select a mounting surface for the control panel under the dashboard of your vehicle or other protected location. Using the control panel as a template, center mark the mounting holes on the dashboard. Drill a 3/16" hole on each center mark **see Figure "C"**. Do not attach the control panel to the dashboard at this time.

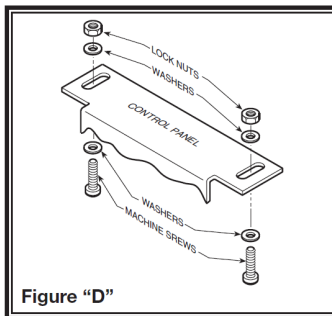


### STEP 3—ROUTE THE AIR LINE

#### A) AIR TANK AND COMPRESSOR TO CONTROL PANEL

Cut a piece of air line tubing that will reach from the control panel to the air tank. Insert the end of the air line tubing into the T-fitting on the back of the control panel. Route the air line to the air tank **see Figures "A" and "C"**. It may be necessary to drill a hole in the firewall to route the air line tubing. Make sure that the air line tubing is protected from sharp edges. A rubber grommet may be installed in the hole in the firewall to protect the tubing from chafing. Insert the other end of the tubing into the either fitting on the air tank. Secure the tubing to the vehicle with the provided Nylon ties. Do not fold or kink the air line tubing.

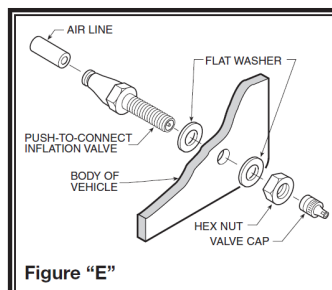
Cut a piece of air line tubing that will reach from the air tank to the air compressor. Insert one end of the air line tubing into the fitting on the air compressor. Route the air line tubing to the air tank, avoiding sharp edges and direct heat. Insert the other end of the air line tubing into the remaining fitting on the air tank **see Figure "A"**. Secure the air line tubing to the vehicle with the provided Nylon ties.



#### B) CONTROL PANEL TO AIR SPRINGS

Cut two lengths of air line tubing that will reach from the gauge panel to each of the air helper springs. Route the air line tubing so that the left paddle switch controls the left air spring and the right paddle switch controls the right air spring. It may be necessary to drill a hole in the firewall to allow the air line tubing to reach the rear of the vehicle. Ensure that the air line tubing is protected from sharp edges. Before installing the tubing to the gauge panel, soak one end of the tubing (1") in hot water for a few minutes to soften the tubing. Slide the tubing onto the barbed fitting on the back of the gauge panel as far as possible. Do not use pliers to work the air line onto the barbed fitting, as the air line tubing may be damaged.

Install the other end of the air line tubing into the fitting on the air spring **see Figure "A"**. Insert the tubing as far as possible into the fitting. Route the tubing to avoid sharp edges and direct heat from the exhaust system. Secure the tubing to the vehicle with the Nylon ties provided.



### STEP 4—INSTALL THE MANUAL INFLATION VALVE

Cut the air line tubing in a convenient location between the control panel and the air tank. Install a T-fitting between the control panel and the air tank **see Figure "A"**. Select a location on the vehicle for the manual inflation valve. This location can be anywhere on the chassis of the vehicle, as long as it is in a protected location so the valve will not be damaged, but maintain accessibility for the air chuck.

Drill a 5/16" hole and install the air inflation valve using to 5/16" washers **see Figure "E"**. Route a length of air line tubing from the T-fitting to the inflation valve. Push the end of the air line tubing into the inflation valve and T-fitting as far as possible. Route the air line tubing to avoid direct heat from the exhaust pipe and away from sharp edges. Secure the air line tubing to the frame with Nylon ties.

#### **STEP 5—ROUTE THE ELECTRICAL WIRE**

Review the electrical schematic before beginning installation **see Figure "A"**.

If necessary, cut a length of 16 gage wire from the 15' length included with this kit to run from the compressor to the pressure switch on the tank. Strip both ends of the wire. On one end crimp a female spade terminal; on the other crimp a male spade terminal. Place the female terminal on one side of the pressure switch and then connect the other end to the compressor female terminal. Route a length of wire from the pressure switch to a positive 12 Volt, 30 Amp (minimum), ignition activated power source on the vehicle. Cut a length of 16 gage wire from the 15' length with this kit. Crimp a blue female spade terminal on to one end. Install the female spade terminal over the other male terminal on the pressure switch. Connect the opposite end of the pressure switch wire to a 12 Volt power supply using a wire connector. Slide the wire connector over the existing wire and insert the un-stripped wire from the pressure switch into the wire connector. Close the wire connector over both wires with pliers **see Figure "F"**.

Install the in-line fuse holder in the positive pressure switch wire. Cut the pressure switch wire near the wire connector and insert the un-stripped ends of the wire into the fuse holder. Close the fuse holder over the wires with pliers and install the 30 Amp fuse **see Figure "G"**.

#### **STEP 6—WIRE THE CONTROL PANEL FOR ILLUMINATION**

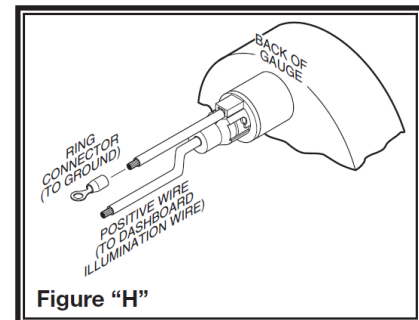
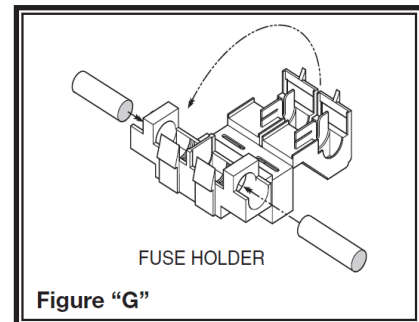
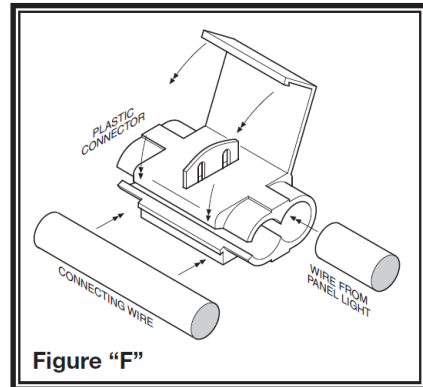
There are two wires attached to the gauge on the back of the control panel. Connect one wire to a fused dashboard illumination wire. Connect the other wire to a suitable ground source **see Figure "H"**. **Note:** Use the supplied 18 gage wire to reach to reach a dashboard illumination wire and ground source.

#### **STEP 7—ATTACH THE CONTROL PANEL TO THE DASHBOARD**

Install the control panel on the dashboard where the holes were drilled in Step 2C. Attach the panel to the dashboard or other mounting surface using 10-32 x 1" machine screws, 10-32 lock nuts and #10 washers **see Figure "D"**.

#### **STEP 8—TEST THE SYSTEM**

With The Dual Air Command III kit and air helper springs installed, you are ready to test the system. Reattach the negative battery cable.





# Do Not Return This Product to the Dealer or Distributor

## If you are

- missing parts,
- experiencing installation problems, or
- have technical concerns regarding this product,

you may contact a Firestone Technical Service Representative at [rrtech@fsip.com](mailto:rrtech@fsip.com) or at 800-888-0650 (option 1, and then option 2). Representatives are available from 7:30 a.m. – 4:30 p.m. Eastern on Monday – Friday, excluding holidays. If you are located outside of the United States, you should first contact your distributor or dealer directly with any issues.

When contacting Technical Service, please have the kit or part # ready, along with the make, model, and year of the vehicle. You may also need to provide details, such as 2WD/4WD or if the vehicle has been lifted or lowered from stock height.

If you have a warranty concern, please include in your email a detailed description of the situation, a photo(s) of the issue, and your contact information, including ship-to address.

**WARRANTY COVERAGE\***— The Ride-Rite™ kits, components, and accessories are warranted against defects in workmanship and materials. This warranty does not cover service or labor charges, neglect...to the product.

### **PERIOD OF COVERAGE:**

- |   |  |
|---|--|
| • Ride-Rite air springs – Lifetime Limited  | • Work-Rite load assists – 2 Years Limited                                       |
| • Sport-Rite air springs – Lifetime Limited | • Air-Rite accessories – 2 Years Limited   |
| • Coil-Rite air springs – Lifetime Limited  | • Brackets, hardware, fittings, air line, and other components – 2 Years Limited |
| • Level-Rite air springs – Lifetime Limited |  |

**HOW TO MAKE A WARRANTY CLAIM** — If you purchased your air springs in the U.S. or Canada and believe you have a part with a warrantable defect, call Firestone directly at 1-800-888-0650.

International customers should contact their distributors or dealers directly with any problems.

(\*) Please refer to the “Firestone Limited Lifetime Air Spring Warranty” for details, terms, and conditions.

## **WARRANTY QUESTIONS**

Go to [www.riderite.com/installation-support](http://www.riderite.com/installation-support)  
Select “Warranty Info” tab