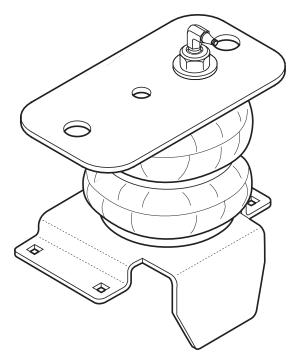
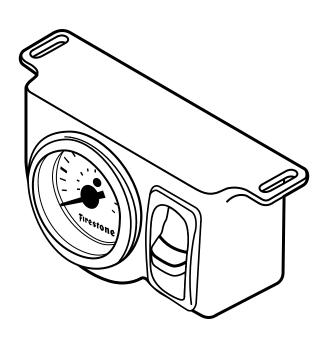


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INSTALLATION INSTRUCTIONS



SECTION 1 - AIR SPRING



SECTION 2 - AIR ACCESSORY



! IMPORTANT

PLEASE DON'T HURT YOURSELF. YOUR KIT OR YOUR VEHICLE. TAKE A MINUTE TO READ THIS IMPORTANT INFORMATION.

This kit is to be used on a pickup truck only, and DOES NOT INCREASE YOUR VEHICLE'S MAXIMUM LOAD.

SAFE INSTALLATION

Please take all safety precautions during installation. A hydraulic jack can fail, and if that happens, you can be seriously hurt, or worse, if you are relying on it to hold up the vehicle. If you use a hydraulic jack, secure jack stands in the appropriate locations and chock any tires still touching the ground.

Wear safety glasses or goggles. Your eyes may be lower than some parts and pieces, and you don't want to lose an eye.

Remove the possibility of any electrical issues by disconnecting the negative battery cable.

KIT CLEARANCE

There must be a minimum of 1/2" clearance around all installed components when the Air Springs are inflated and under a load. The Air Springs must flex and expand during operation, so the clearance keeps the kit from rubbing against parts of the vehicle.

VEHICLE GVWR

NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

INFLATING THE AIR SPRINGS

When inflating Air Springs, add air pressure in small quantities, checking air pressure frequently. The Air Springs have much less air volume than a tire, so they inflate much more quickly.

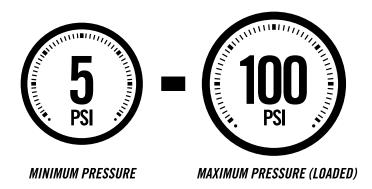
PRESSURE TO LOAD

The Air Springs will support approximately 50 lbs. of load for each PSI of inflation pressure (per pair). For example, 50 PSI of inflation pressure will support a load of 2500 lbs. per pair of Air Springs.

APPROPRIATE AIR PRESSURE

For best ride, use only enough air pressure in the Air Springs to level the vehicle when viewed from the side (front to rear). This will vary, depending on the load, location of the load, condition of the existing suspension, and personal preference.

ONCE INSTALLED SUCCESSFULLY, FOLLOW THESE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS:



SECTION 1 PARTS

Compare the parts below to your kit. Assure you have all pieces, and organize them for an easier installation.

AIR SPRING CONTENTS

PART # 6410		x 2	AIR SPRING	PART # 5543	x 2	LOWER BRACKET	PART # 5584	0 0	x 2	FUEL PUMP EXTENSION BRACKET
PART # 5542	6	x 2	UPPER BRACKET	PART # 5086	x 4	LEAF STACK STRAP BRACKET	PART # 9414		x 1	AIR LINE TUBE (18 FEET)

A24-760-7560 INFLATION VALVE BRACKET KIT



AIR SPRING HARDWARE PACK

PT # 1057	x 2 1/4" - 20 x 1" HEX BOLT	PT # 3067		x8	3/8" - 16 FLANGE LOCK NUT	PT # 3371	x 2 5/8" - 18 HEX LOCK NUT	
PT # 3069	3/8" - 16 x 3/4" x 2 FLANGE BOLT	PT # 0060	0	x 2	1/4" LOCK WASHER	PT # 3014	x 8 3/8" - 16 x 3 1/2" CARRIAGE BOL	
PT # 0075	x 2 5/8" FLAT WASHER	PT # 3033	0	x 4	5/16" FLAT WASHER	PT # 9036	x 15 RED NYLON TIE	
PT # 3032	INFLATION VALVE x 2 AND VALVE CAP ASSEMBLY	PT # 0864	0	x 4	1/4" FLAT WASHER	PT # 0899	x 4 THERMAL SLEEVE	
PT # 3128	x 2 SWIVEL X 2 AIR FITTING	PT # 0057	8	x2	1/4" HEX NUT			

CONTENTS AND OVERVIEW

SECTION 1

PAGE 4 REMOVE JOUNCE BUMPER & UNFASTEN FUEL PUMP CONTROL

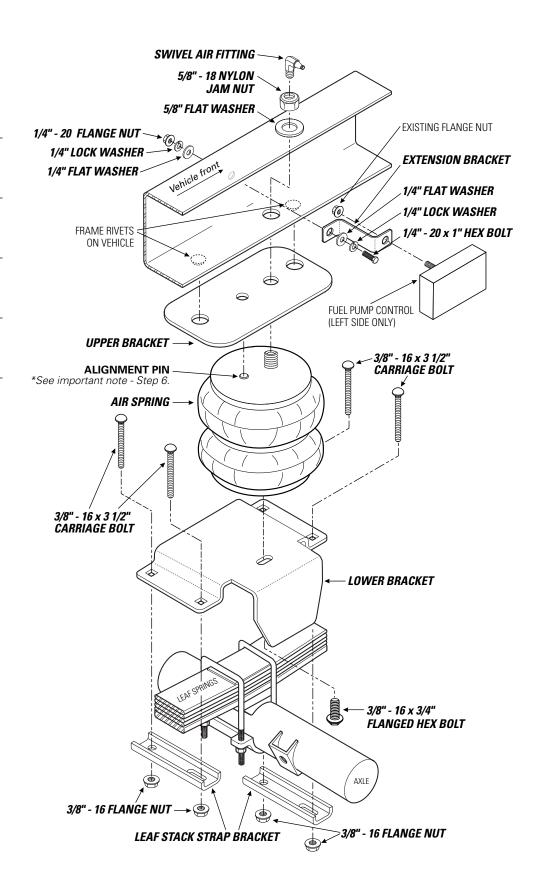
PAGE 5 FASTEN AIR SPRING TO LOWER BRACKET

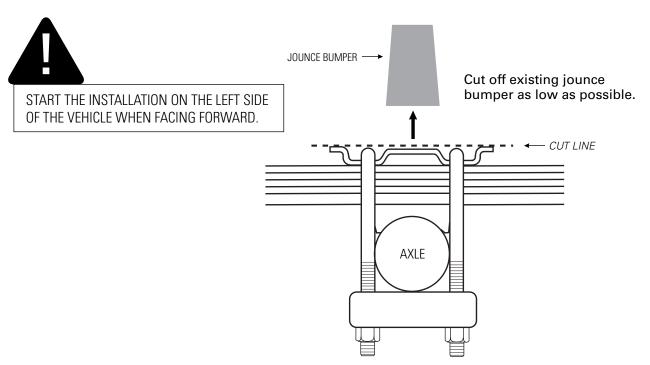
PAGE 6 PREPARE THE UPPER BRACKET

PAGE AIR SPRING ASSEMBLY INSTALLATION

PAGE 8 LEAF STACK STRAP BRACKET INSTALLATION

PAGE **9** REINSTALL THE FUEL PUMP CONTROL



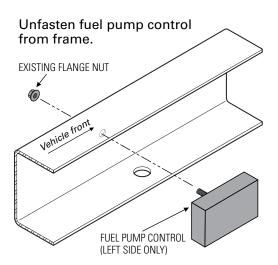


UNFASTEN FUEL PUMP CONTROL & PREPARE EXTENSION BRACKET

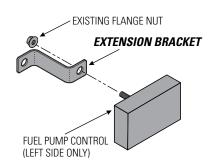
2

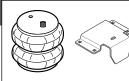


LEFT SIDE ONLY

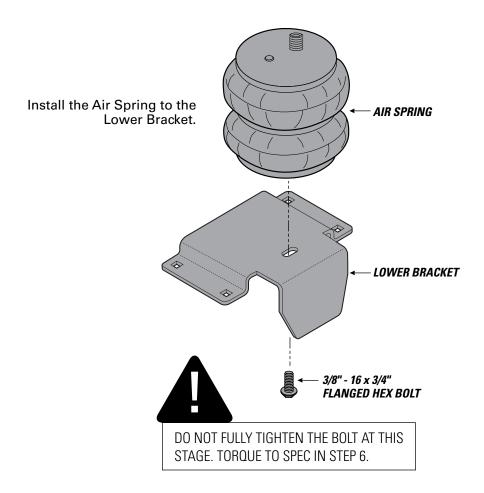


Use existing flange nut to fasten the fuel pump control to the Extension Bracket. Do not yet fasten the Extension Bracket to the vehicle frame.

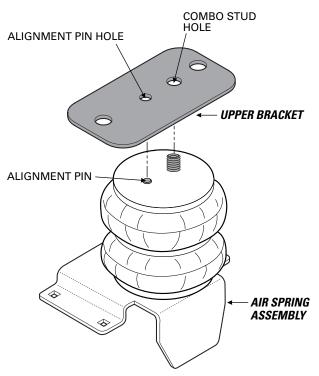






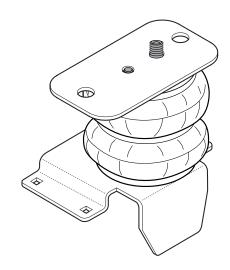






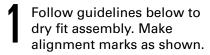
Place the Upper Bracket on top of the Air Spring, as shown.

Make sure the Alignment Pin is fully seated in the alignment pin hole in the Upper Bracket.





INSTALL AIR SPRING ASSEMBLY



Remove assembly and match alignment marks you made.

Fully tighten the 3/8"-16 x 3/4" Flanged Hex Head Bolt on the bottom of the Lower Bracket.

Insert the combo stud on top of the Air Spring into the hole in the vehicle frame.

Make sure two holes in the Upper Bracket align with the frame rivets on the vehicle.

Securely fasten the top of the Air Spring and install the Swivel Air Fitting, as shown.

> NOTE: Alignment Pin must be correctly seated into alignment pin hole on the Upper Bracket.

ALIGNMENT PIN ON AIR SPRING MUST BE INSTALLED TO FULLY SEAT INTO THE ALIGNMENT HOLE IN THE UPPER BRACKET. FAILURE TO DO SO WILL CAUSE IT TO BE PUSHED INTO THE BEAD PLATE, CREATING AN AIR LEAK, AND RESULTING IN AN AIR SPRING FAILURE THAT IS **NOT WARRANT-**ABLE. THE ALIGNMENT PIN CANNOT HOLD

2,500 LBS! IT IS USED FOR ALIGNMENT ONLY!

Carriage Bolt holes in Lower Bracket fall on either side of the leaf spring stack.







THE EMERGENCY BRAKE BRACKET MAY NEED TO BE SLIGHTLY BENT TO ALLOW PROPER CLEARANCE.

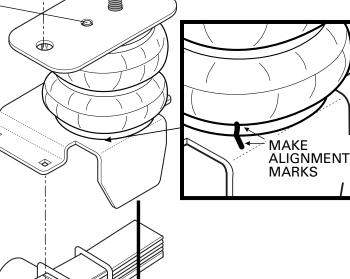
SWIVEL AIR FITTING

Thread onto inside of Air Combo Stud. Tighten until threadlock coating is fully engaged DO NOT OVERTIGHTEN.

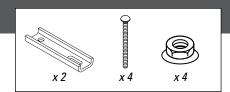
5/8" - 18 NYLON JAM NUT

Thread onto outside of Air Combo Stud. 5/8" FLAT WASHER ~

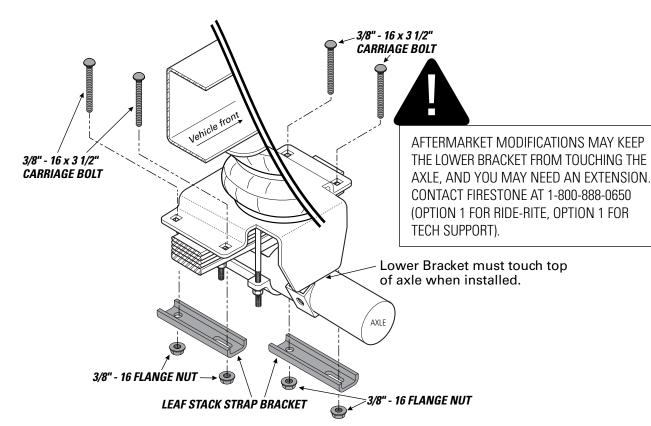
FRAME RIVETS = ON VEHICLE



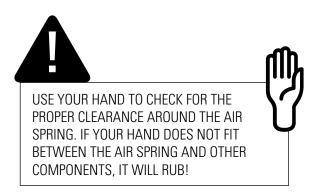
LEAF SPRI

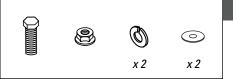


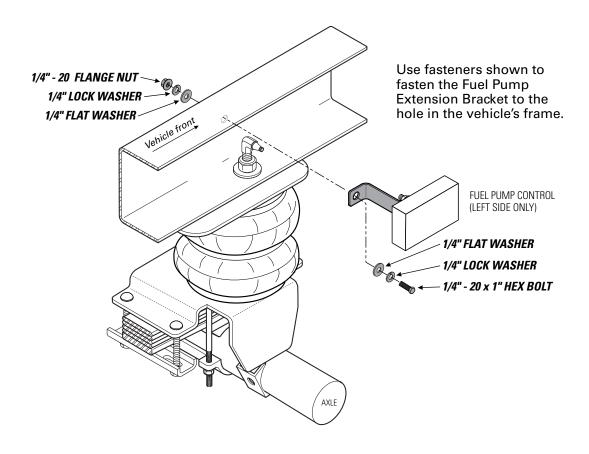
- Insert Carriage
 Bolts into holes in
 Lower Bracket.
- 2 Install the Leaf
 Stack Strap Bracket
 onto the Carriage
 Bolts, under the
 leaf spring stack.
- Fasten the Leaf Stack Strap Brackets to the Carriage Bolts, as shown.
- Check for Air Spring clearance and adjust, if necessary.



Alternate tightening of Flange Nuts to draw Leaf Stack Strap Brackets evenly to the leaf spring stack.







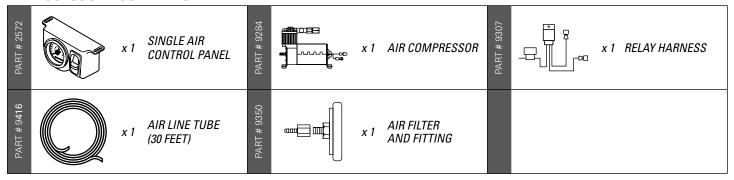


AWESOME! You're done with the left side. The right side installation is the same, with the exception of the Fuel Pump Bracket. Go complete Steps 1-6 for the right side, then continue to Section 2.

SECTION 2 PARTS

Compare the parts below to your kit. Assure you have all pieces, and organize them for an easier installation.

AIR ACCESSORY CONTENTS



AIR ACCESSORY HARDWARE PACK

PART # 3087		x 7 10-32 x 1" MACHINE SCREW	PART # 9078	x 1	SMALL RING TERMINAL	PART # 3055		1/8 NPT PUSH- x 1 TO-CONNECT STRAIGHT FITTING
PART # 30 88		x 7 10-32 LOCK NUT	PART # 9083	x 2	WIRE CONNECTOR	PART # 9041		x 1 LARGE RING TERMINAL
PART # 3086	<u></u>	x 14 #10 FLAT WASHER	PART # 3025	x 1	PUSH-TO- CONNECT T-FITTING	PART # 9036	[B	x 15 NYLON TIE

CONTENTS AND OVERVIEW

SECTION 2

PAGE 12 PLANNING THE INSTALL

PAGE 13 PREPARE AIR COMPRESSOR & CONTROL PANEL

PAGE 14 DRILL HOLES FOR AIR COMPRESSOR INSTALLATION

PAGE 15 INSTALL THE AIR COMPRESSOR

PAGE 16 AIR COMPRESSOR TO CONTROL PANEL AIR LINE TUBE

PAGE 17 AIR SPRINGS TO CONTROL PANEL AIR LINE TUBE

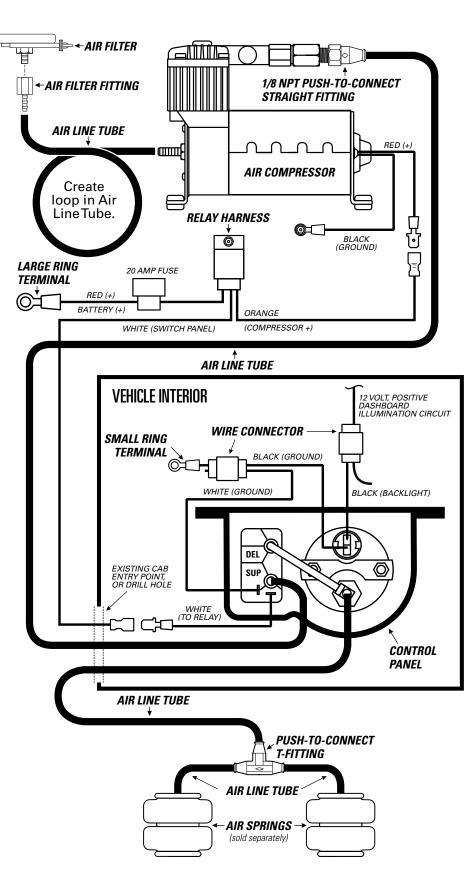
PAGE 10 INSTALL RELAY HARNESS

PAGE 19 FINISH CONTROL PANEL WIRING & INSTALLATION

PAGE 20 INSTALL THE AIR FILTER & CLEAN UP INSTALLATION

PAGE 21 TEST THE SYSTEM

PAGE **22** FIX AN AIR LEAK

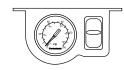


PLANNING THE INSTALL

THESE PLANNING STEPS WILL HELP YOU SAVE TIME AND WILL MAKE THE INSTALLATION EASIER.

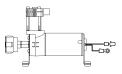
DETERMINE THE MOUNTING LOCATION FOR THE CONTROL PANEL

- Mount inside the vehicle cab, in a place where you will not hit or kick it.
- Allow room for the Air Line Tube to run without sharp curves or bends.
- Do not obstruct your view or ability to safely operate the vehicle.



DETERMINE THE MOUNTING LOCATION FOR THE AIR COMPRESSOR

- Provide ample air flow.
- Protect from airborne debris and moisture.
- If using the optional Frame Installation Kit (Part # 2497), consider the guidelines above, and follow Kit's instructions.



PLAN INSTALLATION ROUTES FOR WIRING AND AIR LINES INTO CAB

- If possible, use existing factory grommet, such as where a wiring harness enters the cab.
- If not possible, drill a hole large enough for two Air Line Tubes and a ground wire. Make sure the wiring and Air Line Tubes are not exposed to sharp metal edges that can damage them.

SOAK AIR LINE TUBE ENDS IN HOT WATER BEFORE INSTALLING ONTO BARBED FITTINGS

-The hot water makes the air line tube easier to work with and enables it to shrink onto the barbed fitting for a better seal.



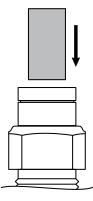
TAPE ALL ELECTRICAL CONNECTIONS

- Use electrical tape to appropriately secure and protect all electrical connections.

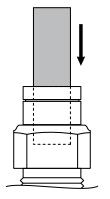
USING PUSH-TO-CONNECT FITTINGS FOR AIR LINES

Your kit includes push-to-connect fittings to connect the Air Line Tubes to hardware. Use the instructions below when using the air line.

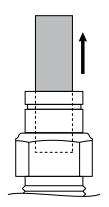
Insert end of Air Line Tube into Air Fitting.



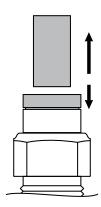
Push Air Line Tube into Air Fitting as far as possible.



Gently pull on the Air Line Tube to check for a secure fit.



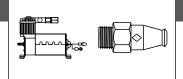
To remove, push down collar and gently pull Air Line Tube away.



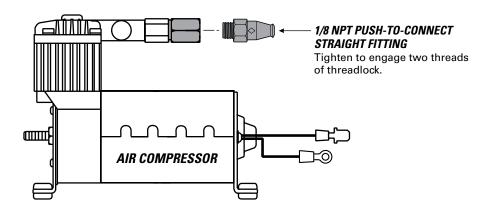
Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.



PREPARE THE AIR COMPRESSOR



Install 1/8 NPT Push-to-Connect
Straight Fitting to the head of the
Air Compressor.



7 DRILL HOLES FOR CONTROL PANEL INSTALLATION

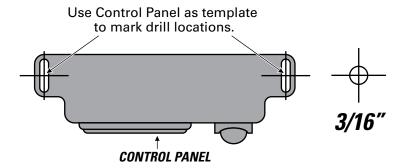
Use the location you selected during the Planning the Installation step on Page 12.



Using the Control Panel slots as a template, mark two drill locations with a punch or marking tool.

2 Drill a 3/16" diameter hole on each center mark.

Do not mount the Control Panel until Step 8.





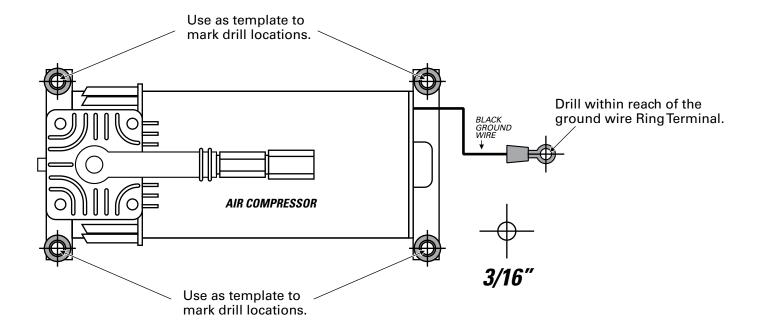


IF YOU ARE USING THE OPTIONAL FIRESTONE AIR COMPRESSOR MOUNTING KIT (PART # 2497), SKIP THIS STEP AND REFER TO THE MOUNTING KIT'S INSTRUCTIONS.

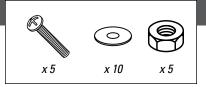


CHECK SURROUNDING AREA AND BACK SIDE OF MOUNTING LOCATION TO AVOID DRILLING INTO EXISTING LINES OR WIRING.

- Using the Air Compressor as a template, mark four drill locations with a punch or marking tool.
- Mark ground wire fastening location within reach of the ground wire Ring Terminal.
- Prill 3/16" diameter holes. Remove any burrs and debris from drill holes.



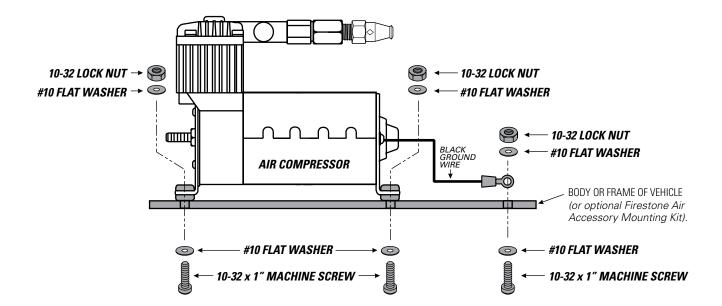






DO NOT OVER TIGHTEN MOUNTING BOLTS AND NUTS. TOO MUCH TORQUE CAN CRUSH THE BRASS INSERTS AND RUBBER ISOLATORS.

- Mount the Air Compressor to the drill hole location using the supplied fasteners. DO NOT OVERTIGHTEN.
- Mount the black ground wire RingTerminal using the supplied fasteners. Assure that the Ring Terminal makes a solid contact with bare metal for a proper ground. (Optionally, you can run the negative to the negative battery terminal.)





TO CREATE A PROPER GROUND, ASSURE THE GROUND RING TERMINAL CONTACTS BARE METAL AND IS FASTENED SECURELY. AFTER INSTALLATION, YOU MAY OPTIONALLY COAT THE RING TERMINAL IN SILICONE TO PROTECT IT FROM CORRODING.





Use the route you selected during the Planning the Installation step on Page 12.

Route the Air Line Tube from the Air Compressor to the Control Panel, leaving room to secure line safely. Use guidelines below to cut.



EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR TUBES FROM AIR FITTINGS.

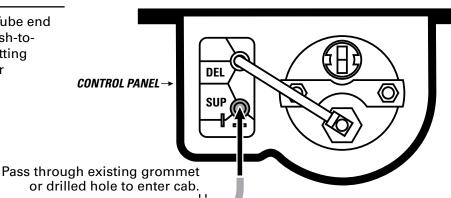


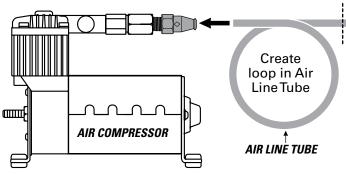
Install the Air Line Tube end onto the barbed fitting on the back of the Control Panel switch as shown.



FOR PROPER INSTALLATION, SOAK AIR LINE TUBE ENDS IN HOT WATER BEFORE INSTALLING ONTO BARBED FITTINGS.

Install the Air Line Tube end into the 1/8 NPT Push-to-Connect Straight Fitting on the top of the Air Compressor.







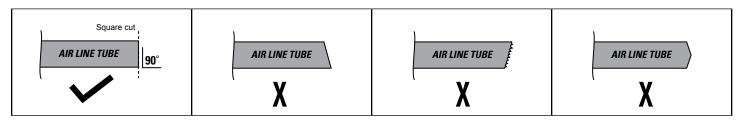
THE AIR LOOP CREATES A TRAP FOR CONDENSATION TO GATHER. WITHOUT THIS TRAP, THE AIR COMPRESSOR COULD BE DAMAGED BY WATER INTAKE.

Make sure the cut is as square as possible. Use a tube cutter or sharp utility knife.

DON'T

Fold or kink the Air Line Tube. Cut the Air LineTube at an angle. Use pliers, scissors, snips, saws, or side cutters.

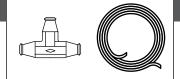
PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE





INSTALL T-FITTING AND ROUTE AIR LINE TUBE TO CONTROL PANEL

Use the route you selected during the Planning the Installation step on Page 12.





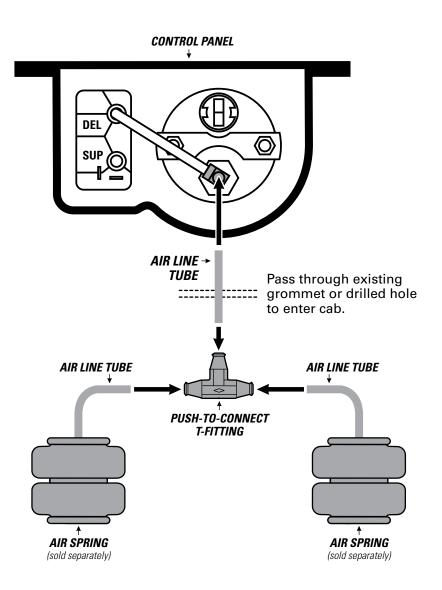
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR TUBES FROM AIR FITTINGS.





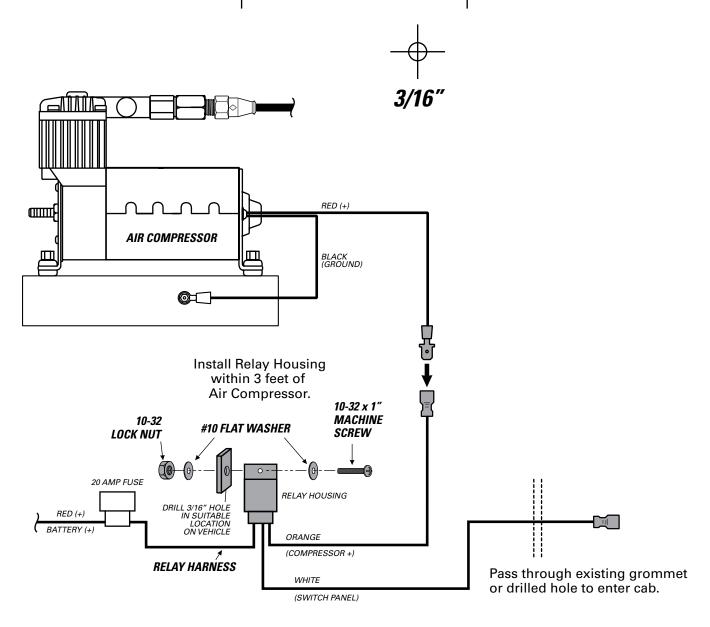
FOR PROPER INSTALLATION, SOAK AIR LINE TUBE ENDS IN HOT WATER BEFORE INSTALLING ONTO BARBED FITTINGS.

- Route the Air Line Tube from the Control Panel to the Air Springs.
- 2 Install the Air Line Tube end onto the barbed fitting on the back of the Control Panel pressure gauge as shown.
- Determine a safe location for the Push-to-Connect T-fitting, where Air Line Tubes from the Air Springs and the Control Panel can safely meet.
- Install the Air Line Tubes from the Air Springs into opposite ends on the Push-to-Connect T-fitting, as shown.
- Install the Air Line Tube from the Control Panel to the single end on the Push-to-Connect T-fitting.

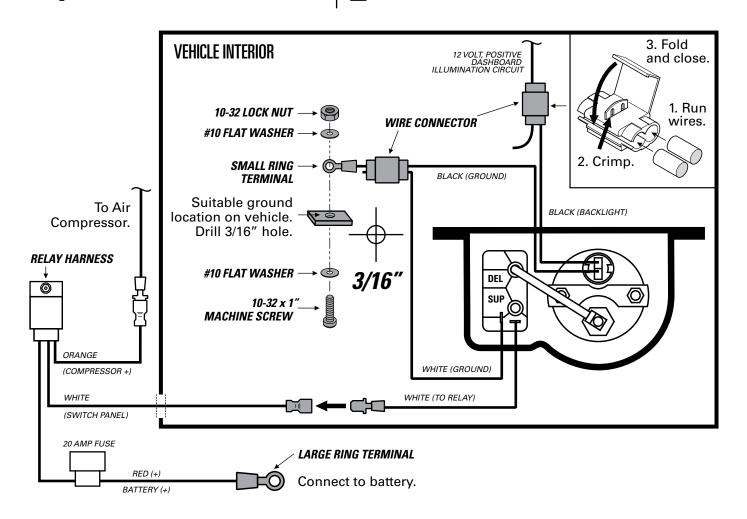




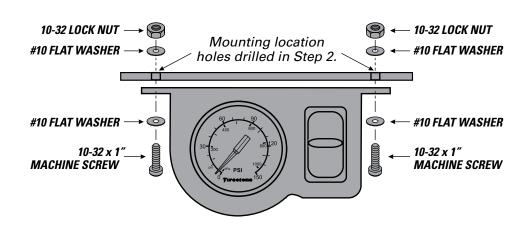
- Select a safe location within 3 feet of the Air Compressor.
- Mark and drill a 3/16" hole to mount the relay housing on the Relay Harness. Secure with fasteners shown.
- Route the white wire with the female spade connector labeled "switch panel" to the Control Panel.

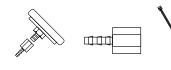


 Connect wires, install Ring Terminals and Wire Connectors as shown below. **2** Fasten Control Panel ground wires to vehicle as shown.



Install the Control Panel using the supplied fasteners.

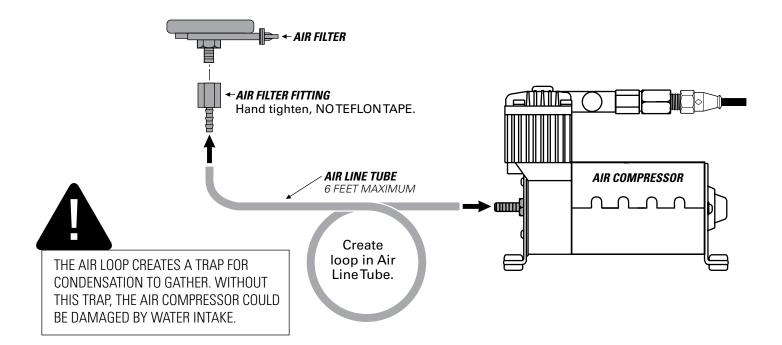






FOR PROPER INSTALLATION, SOAK AIR LINE TUBE ENDS IN HOT WATER BEFORE INSTALLING ONTO BARBED FITTINGS.

- Install the 1/4 NPT x 1/4"
 Tube Fitting onto the
 Air Filter Inlet as shown,
 hand tighten.
- Use supplied Nylon Ties to secure the Air Filter to a dry, protected location no more than 6 feet from the Air Compressor.
- Cut a length of Air Line Tube to run from the Air Compressor to the Air Filter. Attach the Air Line Tube to the barbed fittings as shown below.





CLEAN UP INSTALLATION

10

Clean up the installation using supplied Nylon Ties, and return all factory parts and materials to operative state.

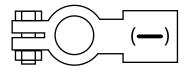


USING SUPPLIED NYLON TIES, SECURE ALL WIRING AND AIR LINE TUBE IN A MANNER THAT DOES NOT OBSTRUCT YOUR VIEW OR ABILITY TO SAFELY OPERATE THE VEHICLE.

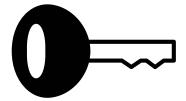


With the Air Command Kit and your Air Springs installed, you are ready to test the system.

Re-attach the negative battery cable.

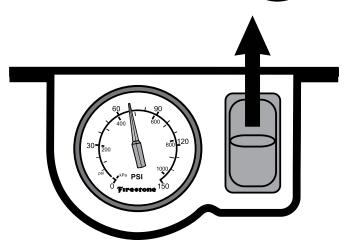


1 Turn on your vehicle's ignition.



Push paddle switch up to inflate the Air Springs to 70 PSI.

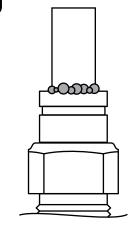




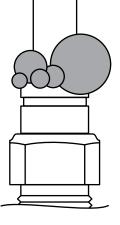
Spray fittings with soap and water mixture.



Observe bubbles.



SMALL SOAP BUBBLES THAT DO NOT EXPAND



SOAP BUBBLES
THAT EXPAND



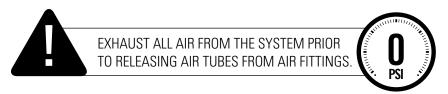
X

NO LEAKS?

Congratulations! You're riding right with the flip of a switch! Remember to review the Operating Instructions.

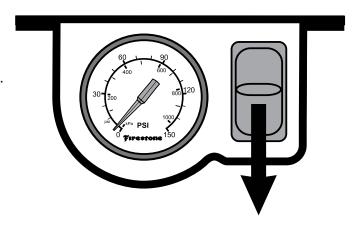
LEAK?

Bummer. Continue to Step 11 to fix the leak.

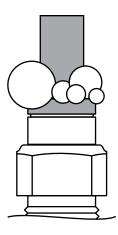


Push paddle switch down to release all air pressure from the Air Springs.

NOTE: While doing this, if you get a quick burst of air prior to the gauge dropping to 0 PSI, your lines are incorrectly swapped.

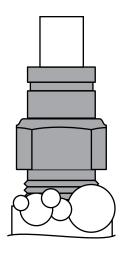


LEAK AT AIR LINE TUBE AND AIR FITTING



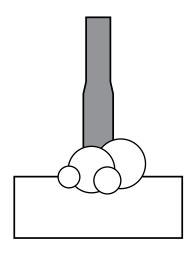
Release Air LineTube (see page 12).
Review proper cuts and
procedures in Step 5. Repeat
installation steps.

LEAK AT BASE OF AIR FITTING ON AIR SPRING



Tighten Air Fitting one turn or until leak stops.

LEAK AT A BARBED FITTING



Being careful not to scar the metal barbs, cut away, check for debris. Trim AirTube Line, soak for 5 minutes in hot water. Reinstall.

STILL HAVE A LEAK?

Refer to the Troubleshooting section of the Instruction Manual. If the leak persists, or if there is an issue with a leaking part, call 1-800-888-0650; Option 1; Option 1 for Tech Support.



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SAFELY RETURN VEHICLE TO OPERATIVE STATE

If you removed any wheels during installation, install the wheels and torque the lug nuts to the manufacturer's specifications. Safely remove any jack stands and wheel chocks used during installation. Re-attach the negative battery cable.

READ AND UNDERSTAND THE OPERATING INSTRUCTIONS

The Ride-Rite system can improve handling and comfort. Take the time to learn how to properly use and maintain your investement by reading the Operating Instructions.

BEFORE YOU DRIVE, CONFIRM THE FOLLOWING: =
☐ Do you have a minimum of 5PSI in your Air Springs?
☐ Are your Air Springs standing 5 1/2" - 6 1/2" tall? 5 1/2" - 6 1/2"
☐ Are your Air Springs properly aligned, left-to-right and front-to-back?
☐ Are your nuts and bolts tight?
☐ Put your paper work back into the sleeve and keep it in your glove compartment for future reference.
☐ Secure all Air Line Tubes and wiring inside the cab and on the outside of the truck.
☐ The system passes the leak test and holds air.
☐ The Air Compressor ground ring terminal is contacting bare metal, and coated with silicone if possible.
☐ Make sure no wiring, Air Line Tubes, or hardware obstruct your vision or ability to safely operate the vehicle
☐ There is a loop in the Air Line Tubes as shown to prevent water or debris from getting into the Air Compressor head and damaging it.
☐The air gauge backlight turns off when the ignition is off, or when dashboard lights do not illuminate.
☐ You've been baggedand now your suspension is Airide equipped! Show it off with the supplied decal!

NEED INSTALLATION HELP? 1-800-888-0650

Select Option 1 for Ride-Rite; Select Option 1 for Technical Support.

Or, email us at rrtech@fsip.com. If emailing, please include photos to help us better diagnose and understand any problems you may be experiencing.



@rideriteair



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Firestone RideRite



Firestone Ride-Rite

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