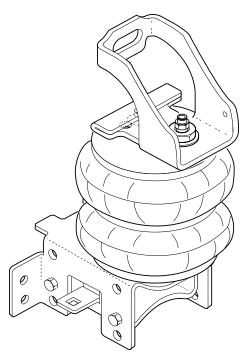
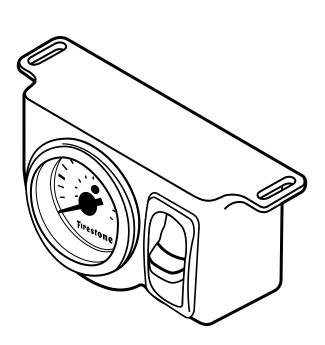


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### **INSTALLATION INSTRUCTIONS**





**SECTION 1 - AIR SPRING** 

**SECTION 2 - AIR ACCESSORY** 



2801

### **! IMPORTANT**

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

**DO NOT INSTALL IF THE TRUCK HAS BEEN LIFTED AND THE STOCK JOUNCE BUMPER SPACERS ARE NOT ON THE VEHICLE.** *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.

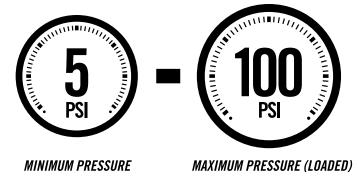
#### **APPROPRIATE AIR PRESSURE**

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.

#### **OPTIONAL T-FITTING**

This kit includes Inflation Valves and Air Line Tube for each Air Spring, allowing you to compensate for unbalanced loads. If you prefer a single Inflation Valve system to provide equal pressure to both Air Springs, your dealer can supply the optional "T" fitting (Part # 3025 or WRI-760-3461 retail pack).

#### 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 # 6401		x 2	AIR SPRING	PART # 5379	60	x 2	SADDLE BRACKET	PART # 3077		x 2	BAIL CLAMP
PART # 5572		x 2	UPPER BRACKET	PART # 1163	a P	x 2	AXLE STRAP BRACKET	PART # 1004	$\bigcirc$	x 1	HEAT SHIELD
PART # 5380	to o o o	x 2	LOWER BRACKET	PART # 5477		x 2	1/2" SPACER	PART # 941 <b>4</b>	Q	x 1	AIR LINE TUBE (18 FEET)

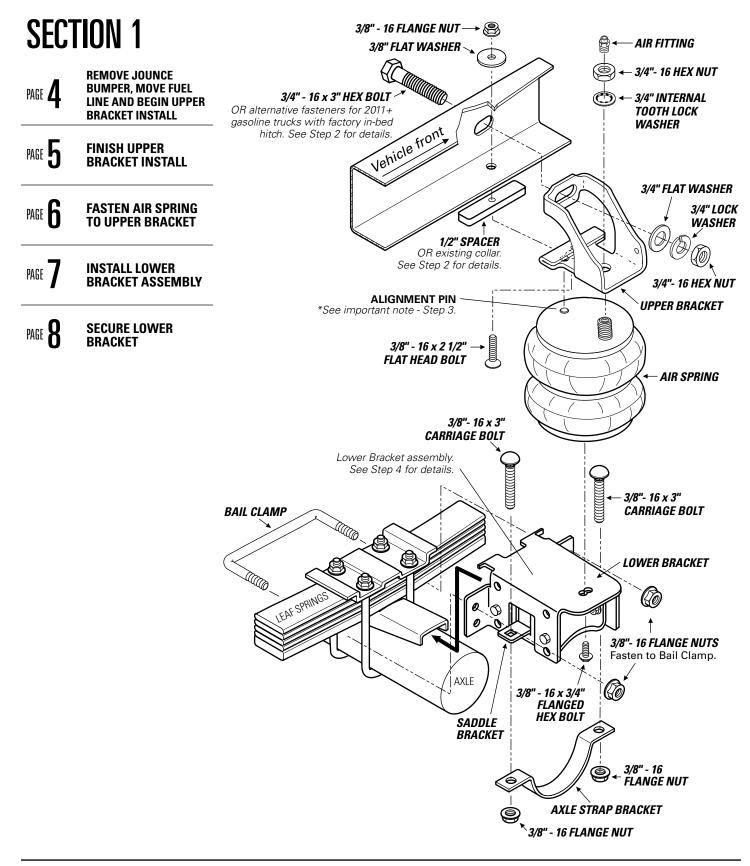
### A24-760-7560 INFLATION VALVE BRACKET KIT

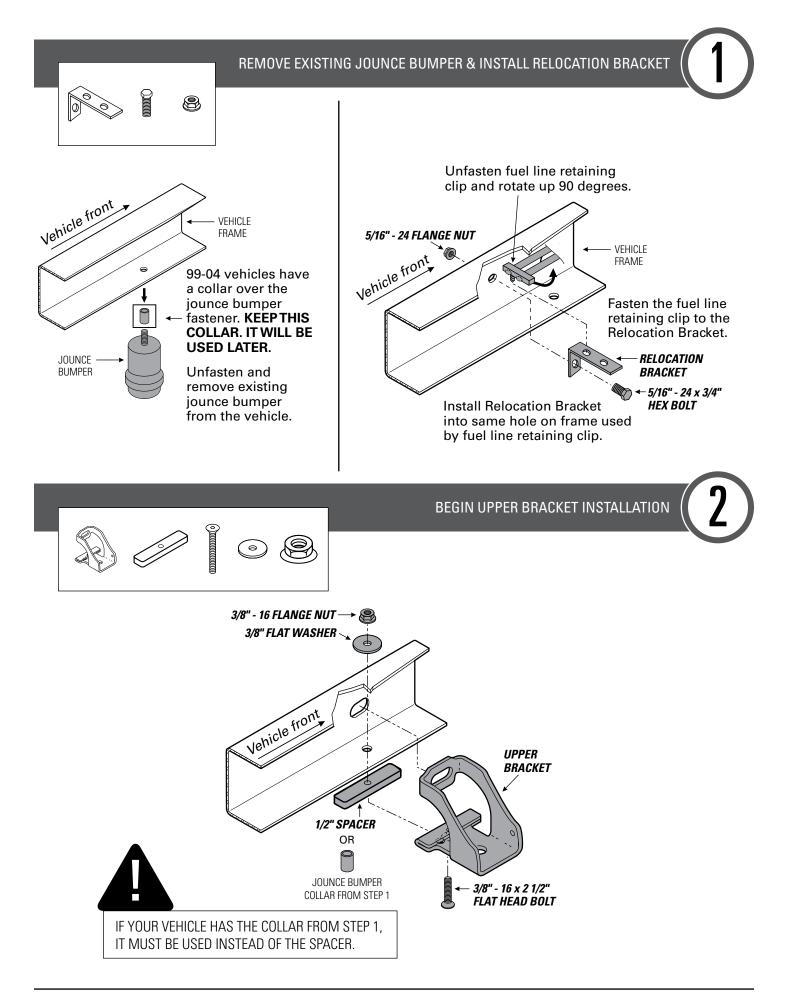


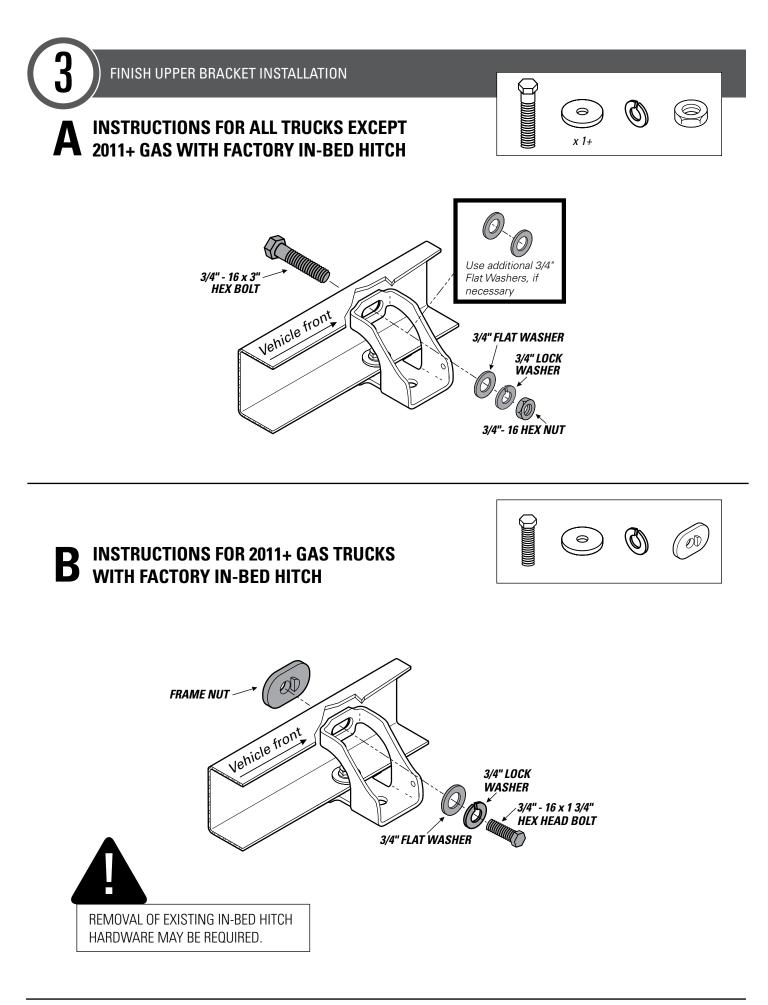
### **AIR SPRING HARDWARE PACK**

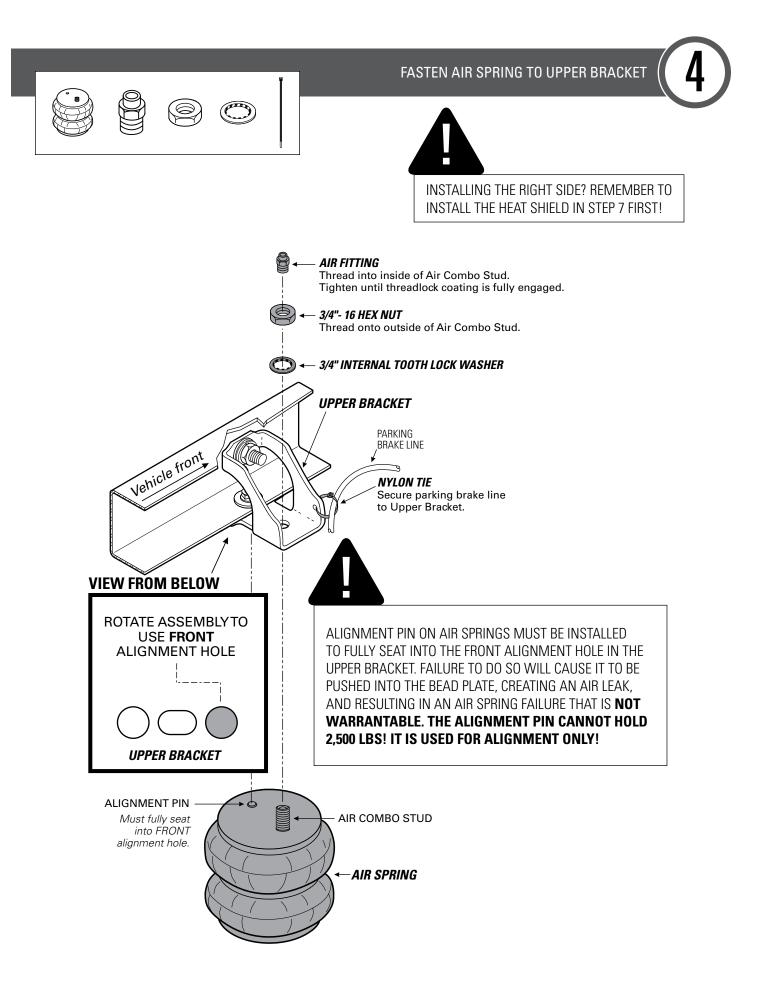
PT # 0065		x 1	5/16" - 24 x 3/4" HEX HEAD BOLT	PT # 3067	8	x 18	3/8" - 16 FLANGE LOCK NUT	PT # 3296	x 2 3/4" LOCK WASHER		
PT # 3056	<b>(</b>	x 1	5/16" - 24 FLANGE NUT	PT # 0532	0	x 2	3/8" LARGE FLAT WASHER	PT # 3032	INFLATION VALVE x 2 AND VALVE CAP ASSEMBLY		
PT # 3033	0	x 4	5/16" FLAT WASHER	PT # 3350		x 2	3/4" - 16 x 1 3/4" HEX HEAD BOLT	PT # 3046	x 2 AIR FITTING		
PT # 3069		x 2	3/8" - 16 x 3/4" FLANGE BOLT	PT # 3295	0	x 4	3/4″ - 16 HEX NUT	PT # 3012	x 4 3/8" - 16 x 3" CARRIAGE BOLT		
PT # 3411	0	x 2	3/4" THICK WASHER	PT # 3412	eD	x 2	3/4" - 16 FRAME NUT	PT # 9036	x 15 RED NYLON TIE		
PT # 0070		x 8	3/8" - 16 x 1" HEX HEAD BOLT	PT # 3064	$\bigcirc$	x 2	INTERNAL TOOTH LOCK WASHER	PT # 0899	x 4 THERMAL SLEEVE		
PT # 3345	() )	x 2	3/8" - 16 x 2 1/2" FLAT HEAD BOLT	PT # 3113	0	x 8	3/4" FLAT WASHER	PT # 3328	()_)))))))))) x 2 3/4" - 16 x 3" HEX HEAD BOLT		
PT # 5428	000	x 1	FUEL LINE RELOCATION BRACKET								

# **CONTENTS AND OVERVIEW**









**INSTALL LOWER BRACKET ASSEMBLY** 

Follow steps below to dry fit assembly. Make alignment marks as shown.

2 Place bottom of Lower Bracket on the axle of the vehicle.

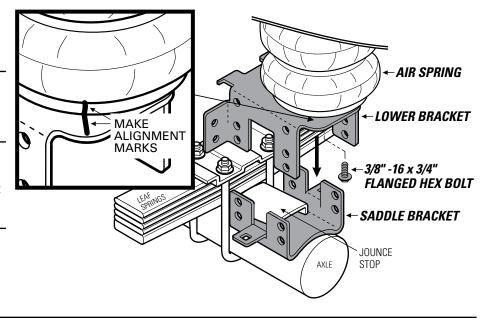
**3** Place the Upper Bracket above the Lower Bracket as shown. Assure both are tight against the leaf spring stack.

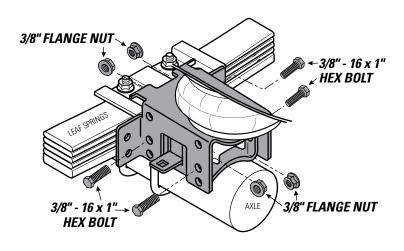
Match the alignment marks and secure the Air Spring to the Upper Bracket, as shown.

Position the Lower Bracket
as low as possible, while
still clearing the jounce stop
on the vehicle.

Choose the bolt holes in both brackets that best line up the Lower Bracket with the Saddle bracket. Make sure the Lower Bracket is parallel to the ground.

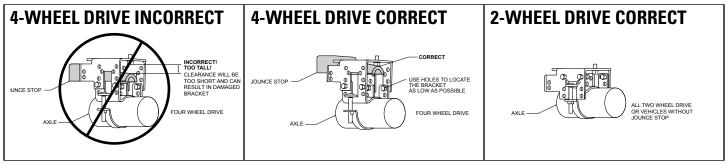
Use supplied fasteners in the bracket holes you chose.



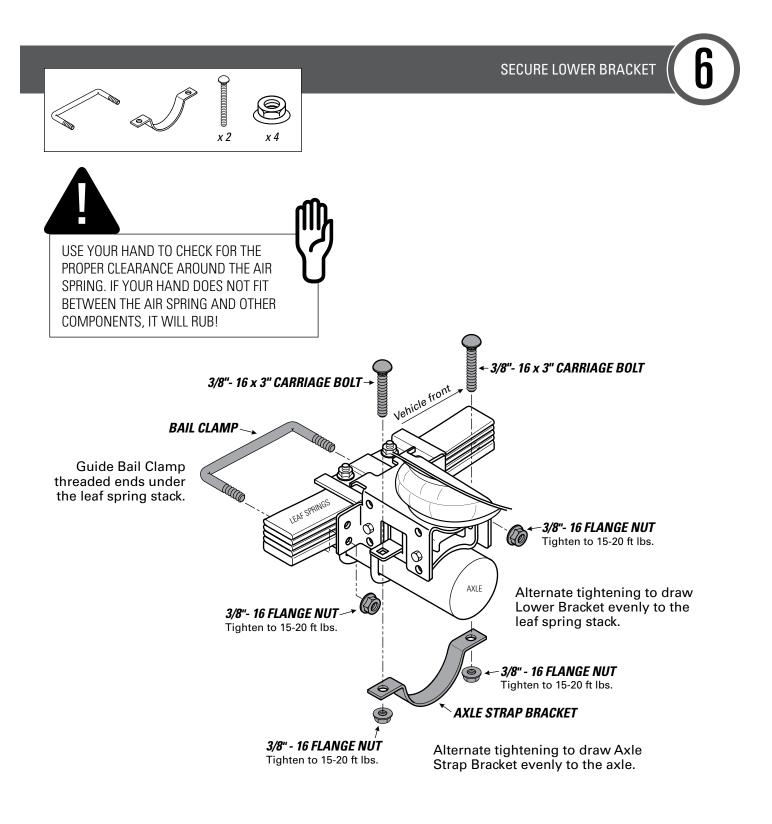


### **! IMPORTANT: INSTALL ON THE LOWEST SETTING POSSIBLE FOR YOUR VEHICLE**

FAILURE TO DO SO CAN RESULT IN DAMAGED BRACKETS AND CAN VOID YOUR WARRANTY

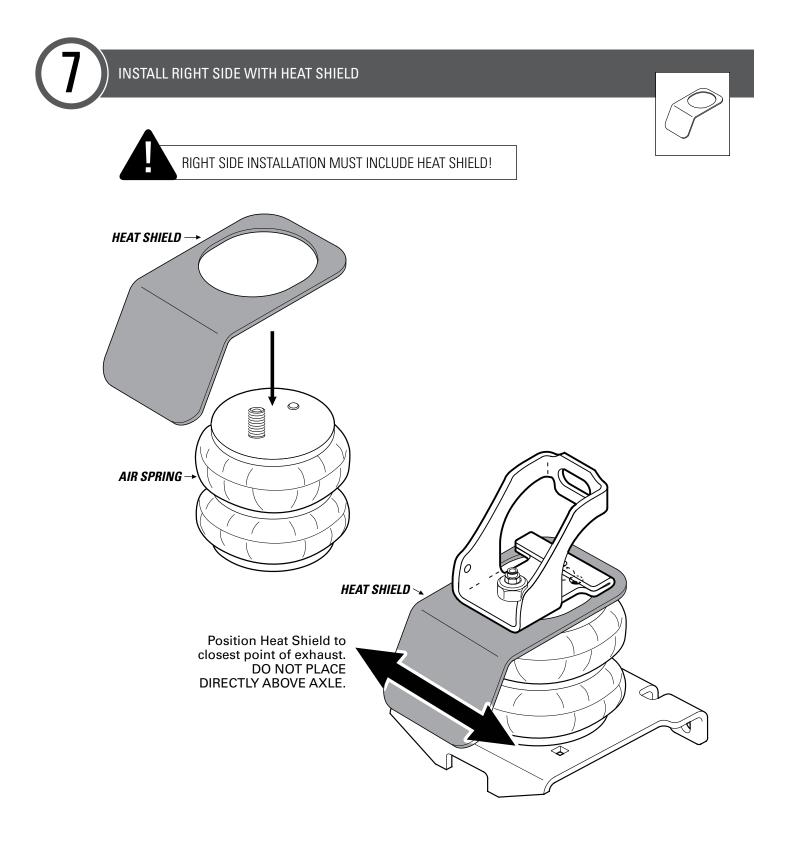


Firestone





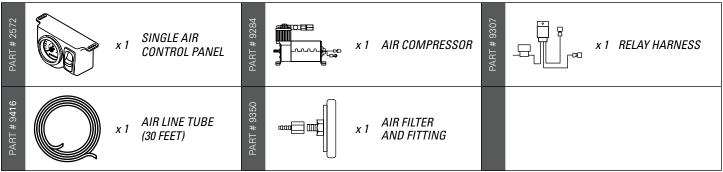
**AWESOME!** You're done with the left side. The right side is the same, with the addition of the Heat Shield. See Step 7, then complete the steps for the right side installation.



# **SECTION 2 PARTS**

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

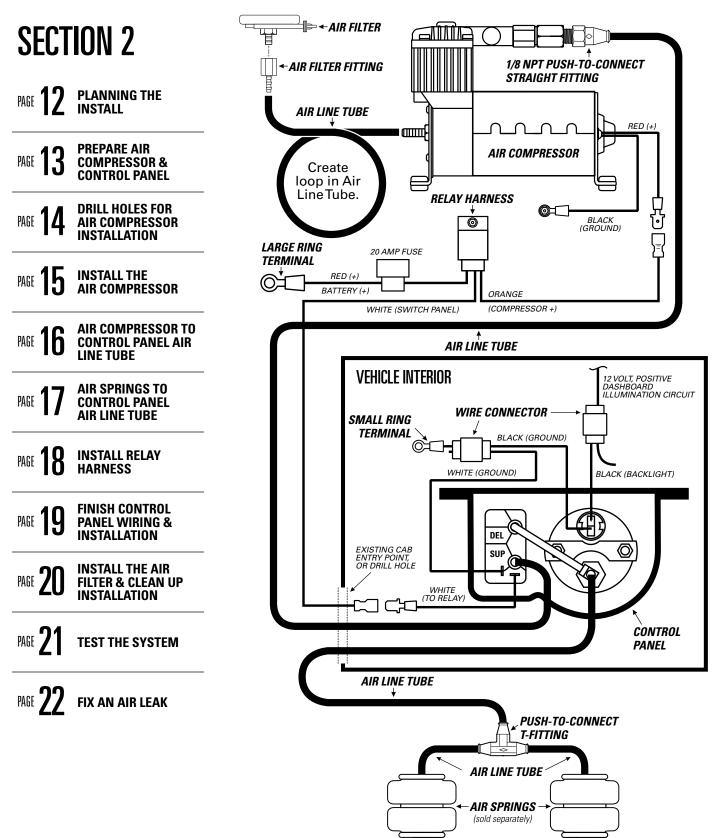
### **AIR ACCESSORY CONTENTS**



### **AIR ACCESSORY HARDWARE PACK**

PART # 3087		x 7 10-32 x 1" MACHINE SCREW	PART # 9078	DFØ	x 1	SMALL RING TERMINAL	PART # 3055	x 1	1/8 NPT PUSH- TO-CONNECT STRAIGHT FITTING
PART # 30 <b>88</b>	0	x 7 10-32 LOCK NUT	PART # 9083	<b>F</b>	x 2	WIRE CONNECTOR	PART # 9041	x 1	LARGE RING TERMINAL
PART # 3086	$\bigcirc$	x 14 #10 FLAT WASHER	PART # 3025		x 1	PUSH-TO- CONNECT T-FITTING	PART # 9036		x 15 NYLON TIE

# **CONTENTS AND OVERVIEW**



# 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.

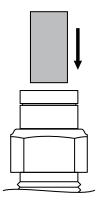
### TAPE ALL ELECTRICAL CONNECTIONS

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

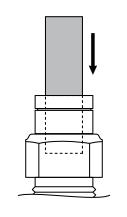
### USING PUSH-TO-CONNECT FITTINGS FOR AIR LINES

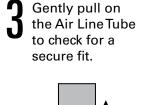
Your kit includes push-to-connect fittings to connect the Air Line Tubes to hardware. Use the instructions below when using the air line.

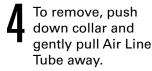
Insert end of Air LineTube into Air Fitting.

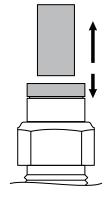


Push Air Line Tube into Air Fitting as far as possible.







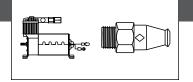


**Removal Tip:** Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

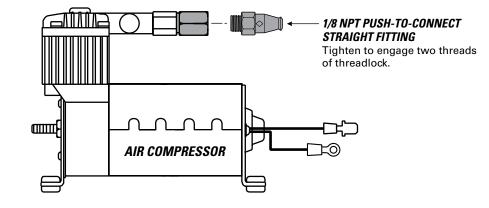


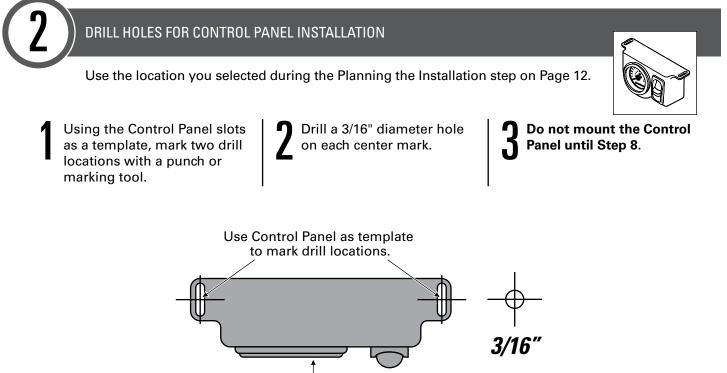


PREPARE THE AIR COMPRESSOR

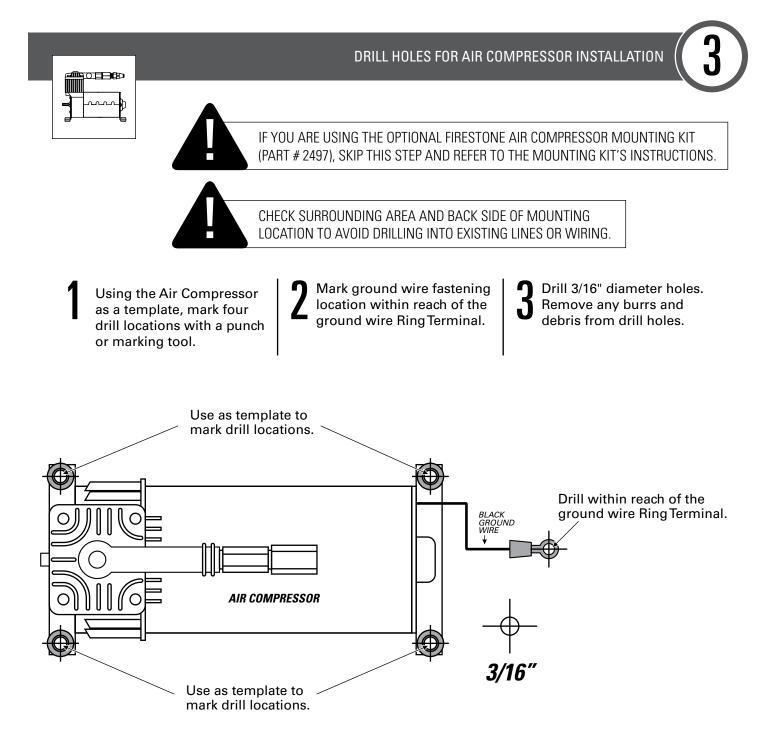


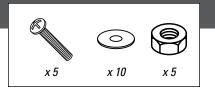
Install 1/8 NPT Push-to-Connect Straight Fitting to the head of the Air Compressor.





CONTROL PANEL



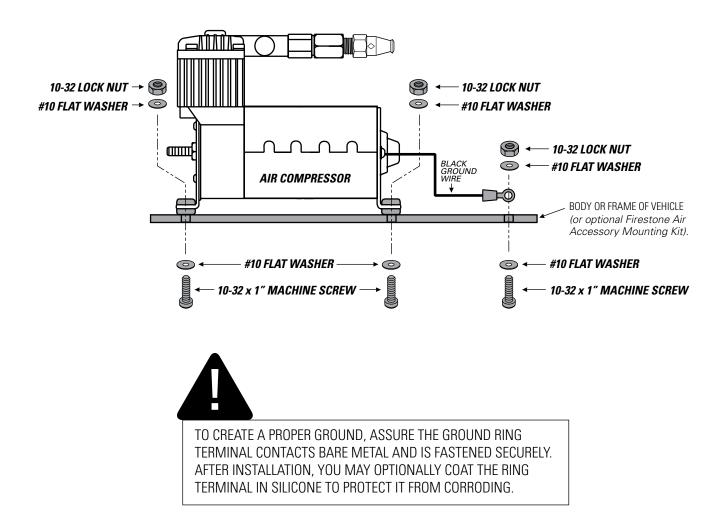


### DO NOT OVER TIGHTEN MOUNTING BOLTS AND NUTS. TOO MUCH TORQUE CAN CRUSH THE BRASS INSERTS AND RUBBER ISOLATORS.

Mount the Air Compressor to the drill hole location using the supplied fasteners. DO NOT OVERTIGHTEN.

2

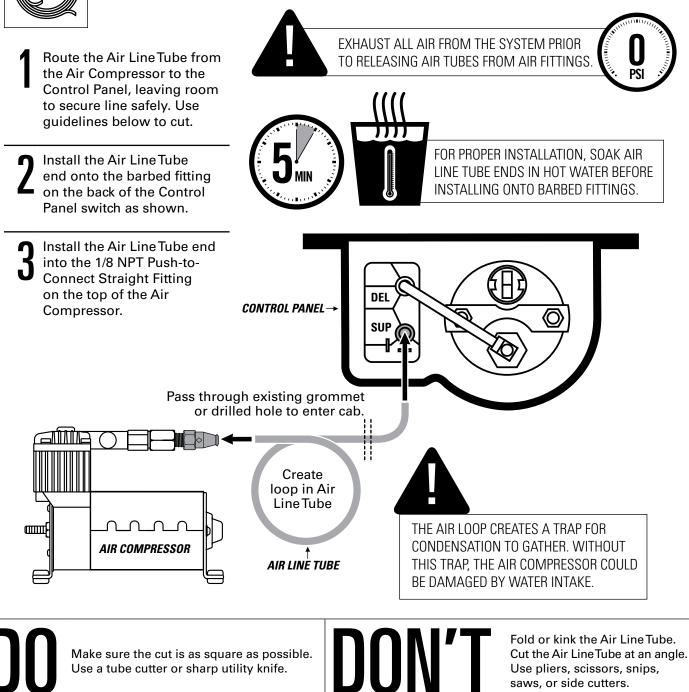
Mount the black ground wire RingTerminal using the supplied fasteners. Assure that the Ring Terminal makes a solid contact with bare metal for a proper ground. (Optionally, you can run the negative to the negative battery terminal.)



#### ROUTE AIR LINE TUBE FROM AIR COMPRESSOR TO CONTROL PANEL

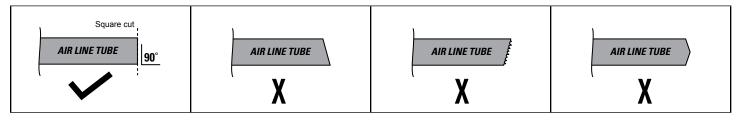


Use the route you selected during the Planning the Installation step on Page 12.



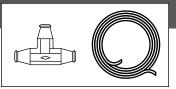
Make sure the cut is as square as possible. Use a tube cutter or sharp utility knife.

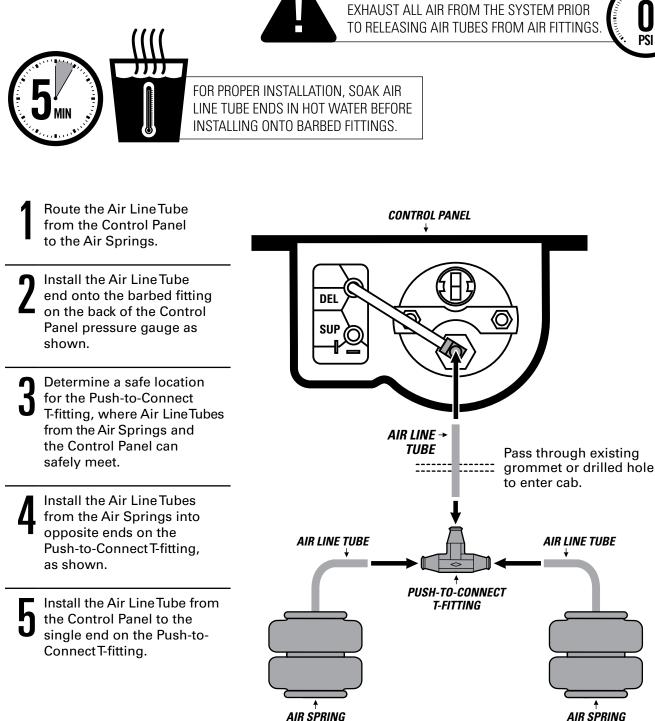
#### **PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE**



Use pliers, scissors, snips, saws, or side cutters.

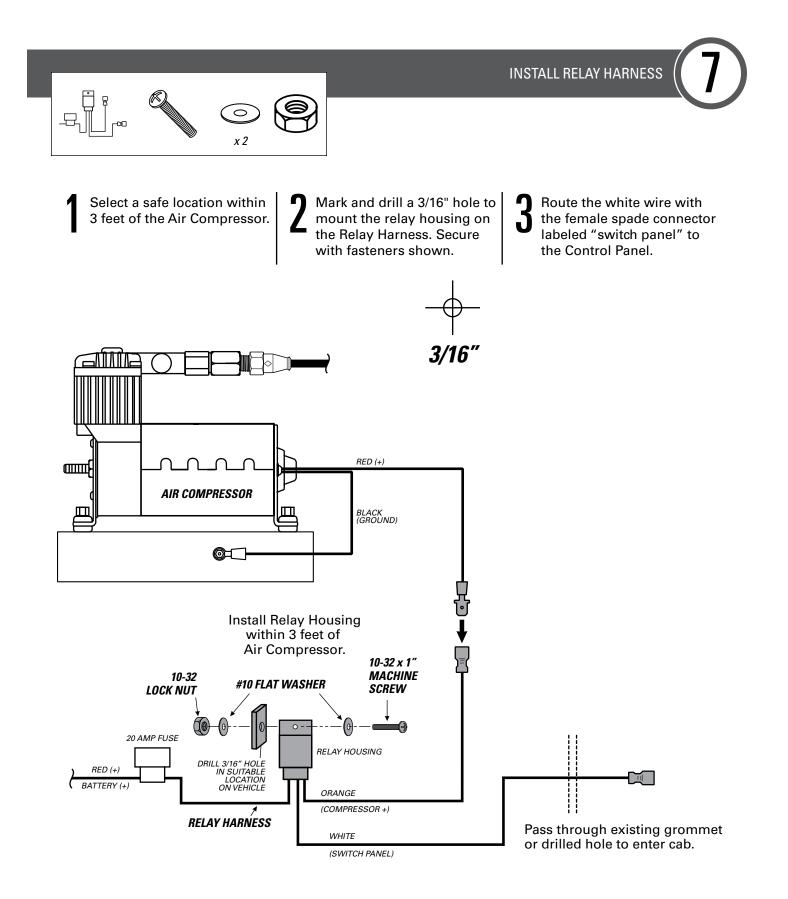
Use the route you selected during the Planning the Installation step on Page 12.

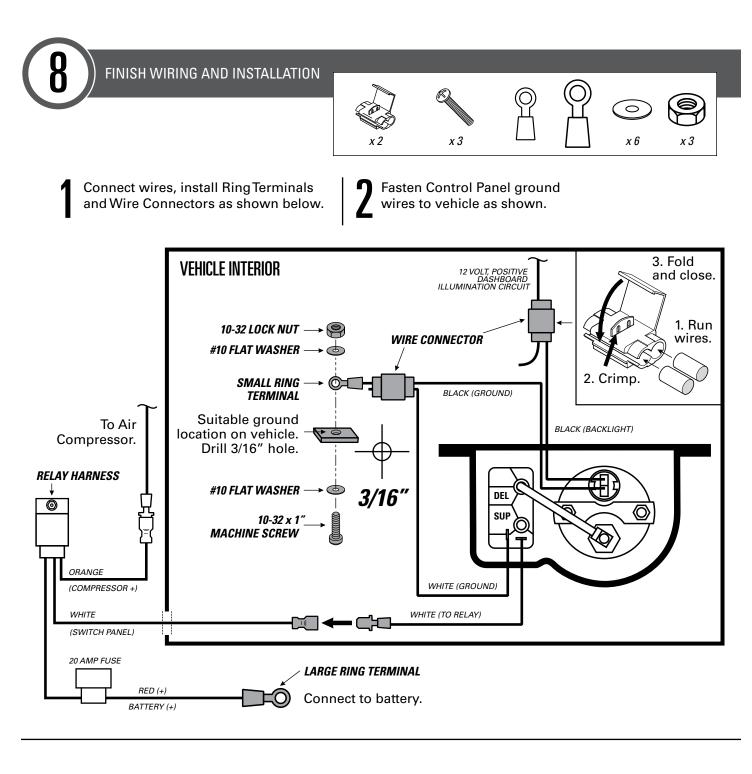


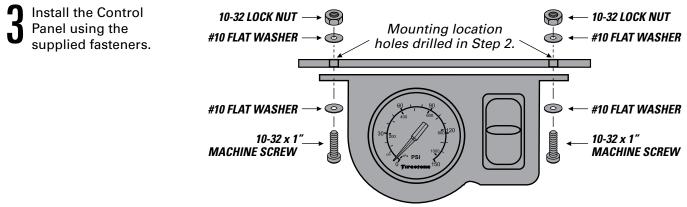


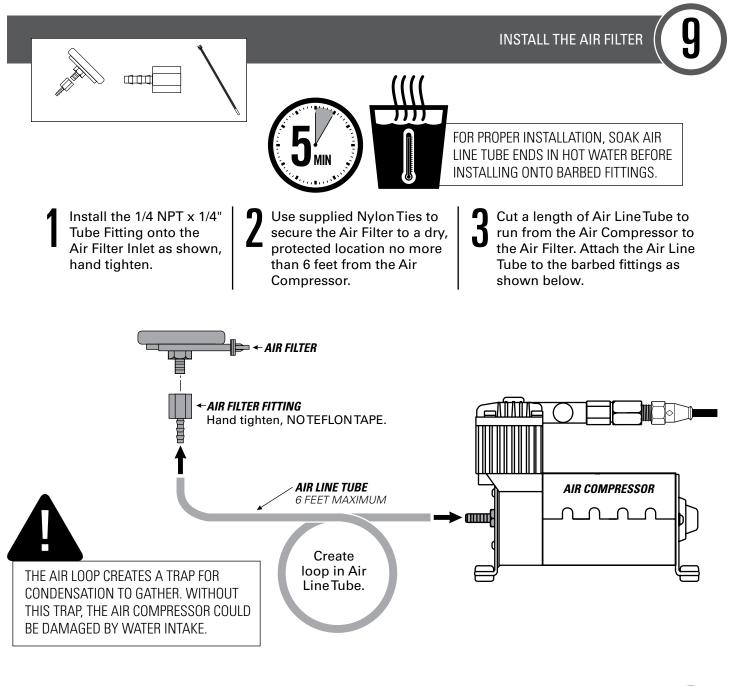
(sold separately)

(sold separately)









**CLEAN UP INSTALLATION** 

(10)

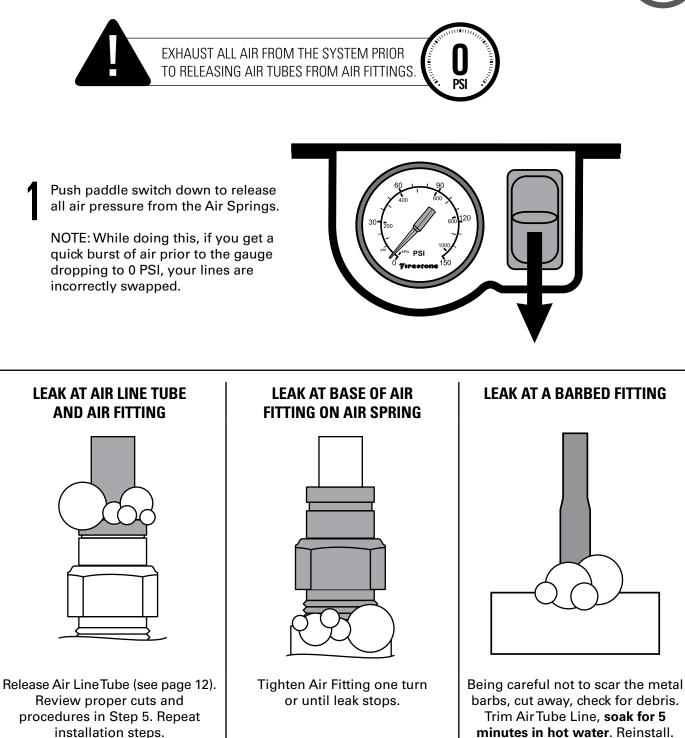
Clean up the installation using supplied Nylon Ties, and return all factory parts and materials to operative state.



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.

TEST THE SYSTEM With the Air Command Kit and your Air Springs installed, you are ready to test the system. Re-attach the negative Push paddle switch up to inflate the Air Springs to 70 PSI. battery cable. Turn on your vehicle's ignition. Spray fittings with Observe bubbles. soap and water mixture. Source WATER SOAP **SMALL SOAP BUBBLES SOAP BUBBLES** THAT DO NOT EXPAND THAT EXPAND **NO LEAKS?** IFAK? Congratulations! You're riding right with the flip of a Bummer. Continue to Step 11 to fix the leak. switch! Remember to review the Operating Instructions.





### **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" 7" tall?
- Are your Air Springs properly aligned, left-to-right and front-to-back?
- Are your nuts and bolts tight?

**CONNECT WITH US** 

- 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 LineTubes, 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 bagged...and now your suspension is Airide equipped! Show it off with the supplied decal!

### **NEED INSTALLATION HELP? 1-800-888-0650**

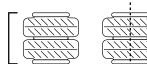
Select Option 1 for Ride-Rite; Select Option 1 for Technical Support.

@rideriteair

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



You Tube

**Firestone Ride-Rite** 

Firestone RideRite

5 1/2" - 7"





**78**N'