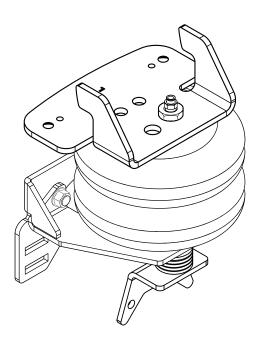
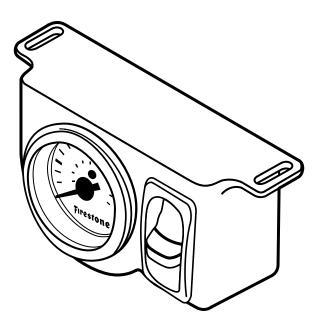


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INSTALLATION INSTRUCTIONS



SECTION 1 - AIR SPRING



SECTION 2 - AIR ACCESSORY

2-23

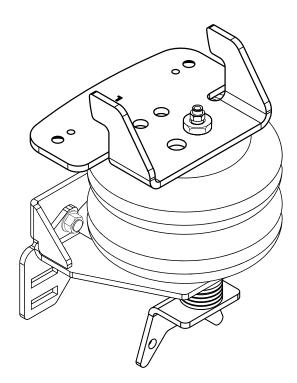
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INSTALLATION INSTRUCTIONS

Does your vehicle have an aftermarket lift kit? See step 8. You may need to purchase a spacer in order to use this kit.





Firestone Industrial Products

2625

! 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 TONGUES 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:



MINIMUM PRESSURE



MAXIMUM PRESSURE (LOADED)

PARTS

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

MAIN KIT CONTENTS

PT # 6397	x 2	AIR SPRING	PT # 5939		x 2	LOWER FRAME BRACKET	PT # 5940	e te	x 2	THREAD PLATE
PT # 5872	x 1	UPPER LEFT BRACKET	PT # 5942		x 2	LEAF SPRING BRACKET	PT # 1004	\bigcirc	x 1	HEAT SHIELD
PT # 5873	x 1	UPPER RIGHT BRACKET	PT # 5941	Contraction of the second seco	x 2	SUPPORT BRACKET	PT # 9415	Q	x 1	AIR LINE TUBE (22 FEET)
PT # 5938	x 2	LOWER SPRING BRACKET	PT # 5336	0	x 2	AIR SPRING SPACER				

A24-760-7560 INFLATION VALVE BRACKET KIT

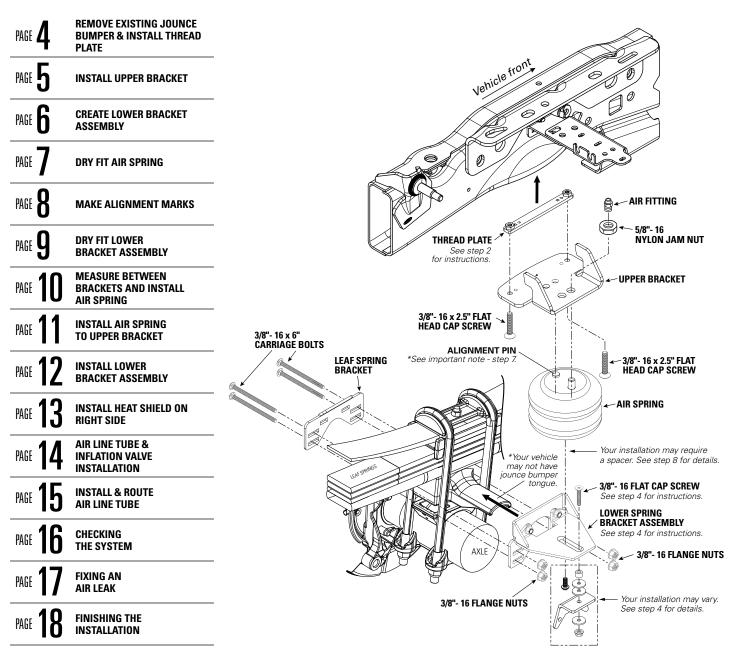
NO-DRILL x 1 INFLATION VALVE BRACKET PT # 9488

x 2 LARGE NYLON TIE

A21-760-2625 HARDWARE PACK

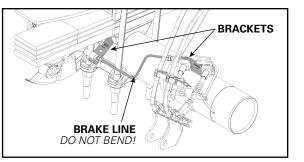
PT # 3022		x 18 3/8" - 16 FLANGE LOCK NUT	PT # 3514	0	x 6	3/8" - 16 x 1" FLAT HEAD CAP SCREW	PT # 3032	INFLATION VALVE x 2 AND VALVE CAP ASSEMBLY
PT # 3033	\odot	x 4 5/16" FLAT WASHER	PT # 3430		x 6	3/8" - 16 x 2" FLAT HEAD CAP SCREW	PT # 3055	x 2 AIR FITTING
PT # 3106		x 2 3/8" - 16 x 1" FLANGE BOLT	PT # 3515		x 6	3/8" - 16 x 2.5" FLAT HEAD CAP SCREW	PT # 3502	x 8 3/8" - 16 x 6" CARRIAGE BOLT
PT # 3150		x 2 3/8" - 16 x 2" FLANGE BOLT	PT # 3332	9	x 2	5/8" - 18 NYLON JAM NUT	PT # 9036	x 10 RED NYLON TIE
PT # 0532	\odot	x 18 3/8" FLAT WASHER	PT # 5224	0	x 2	SPACER	PT # 0899	x 2 THERMAL SLEEVE

CONTENTS AND OVERVIEW



IMPORTANT NOTE

If necessary for installation clearance, slightly bend the brackets on the left (driver) side which supports the brake line and axle vent tube. After removing the plastic ABS mount from its hole in the axle bracket, use an adjustable wrench or similar tool to bend the bracket approximately 1/8" (3mm). Replace the ABS mount when proper clearance is obtained.



REMOVE EXISTING JOUNCE BUMPER

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Remove the existing jounce bumper and fastener clips from the vehicle frame.

INSTALL THREAD PLATE



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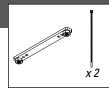
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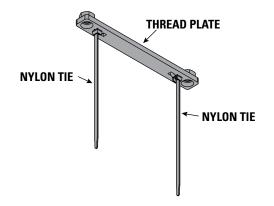
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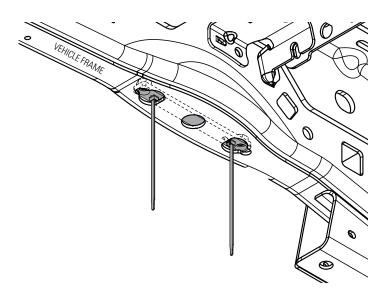
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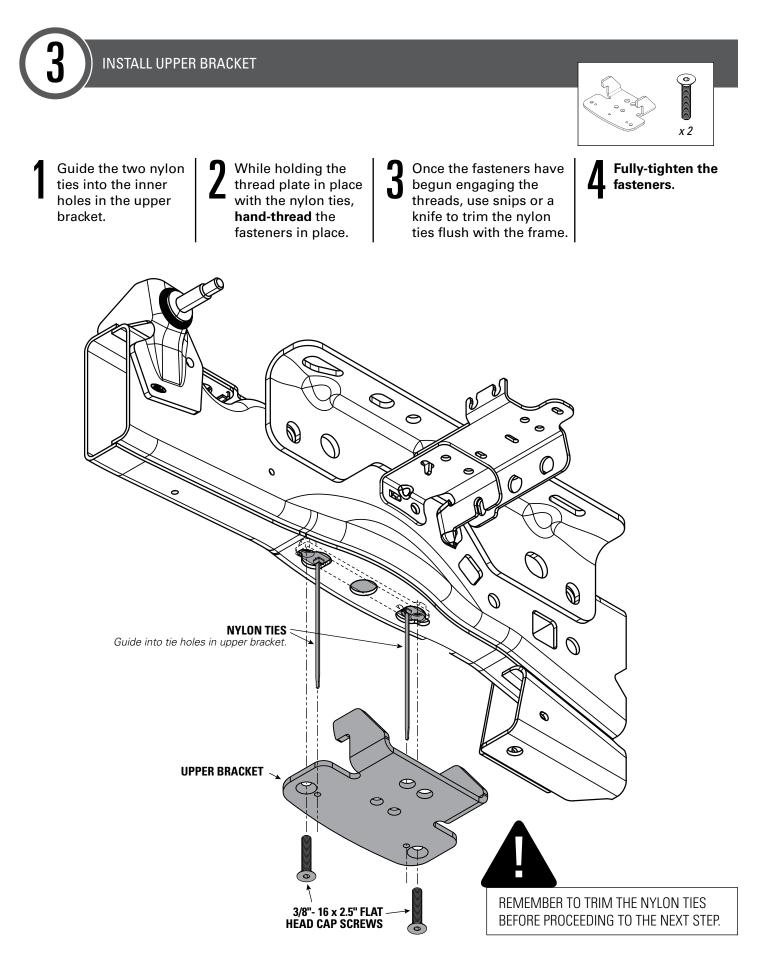


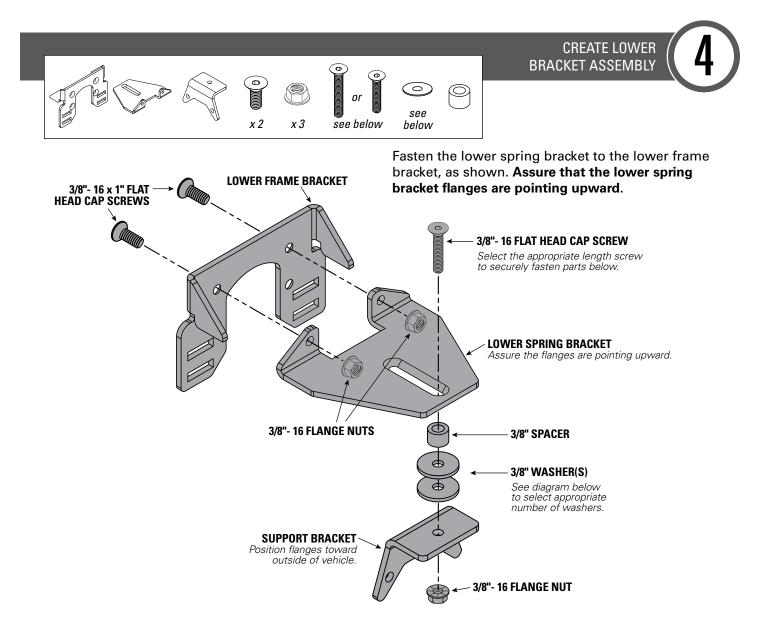
Attach nylon ties to the thread plate, as shown. These act as installation guides for the thread plate and upper bracket. They will be removed in a later step.

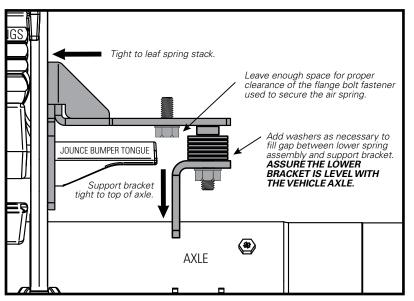


Insert the thread plate into the vehicle frame, as shown. Use nylon ties as handles to position thread plate.









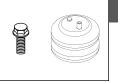
DRY FIT TO DETERMINE WASHERS

Place the lower bracket assembly tight to the leaf springs. If your vehicle has a jounce bumper tongue, leave enough space to allow proper clearance for the flange bolt used to secure the air spring, as shown.

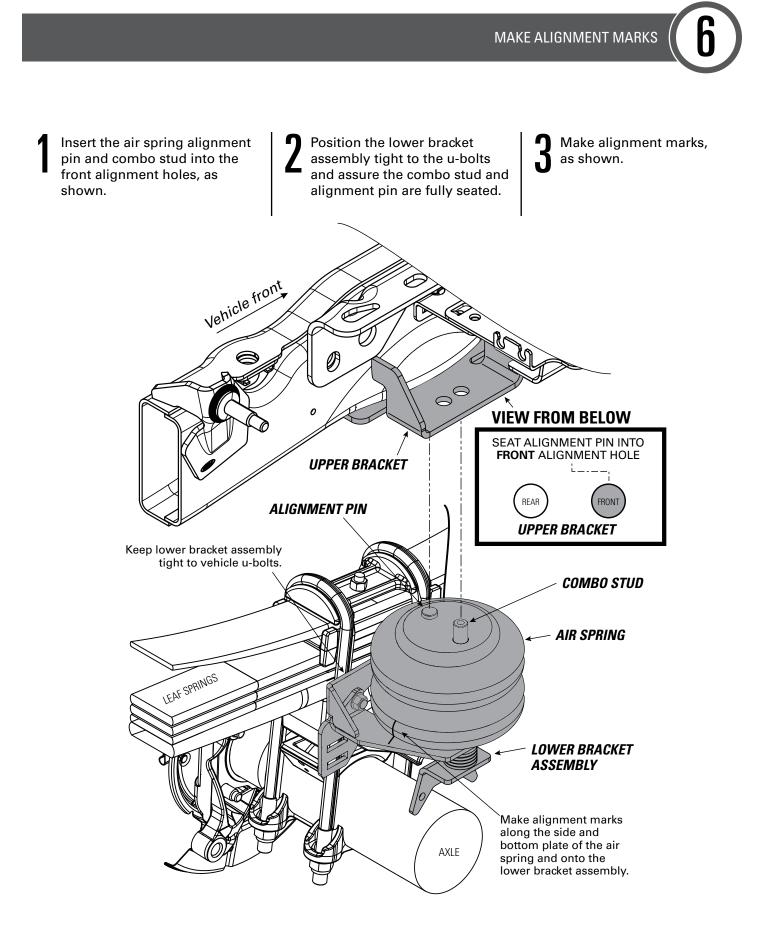
Position the support bracket so it is **tight** to the top of the axle. Install selected 3/8"-16 flat head cap screw, spacer, and enough washers to fill the gap and provide enough space for the flat head bolt, as shown. **ASSURETHE LOWER BRACKET IS LEVEL WITH THE VEHICLE AXLE**.

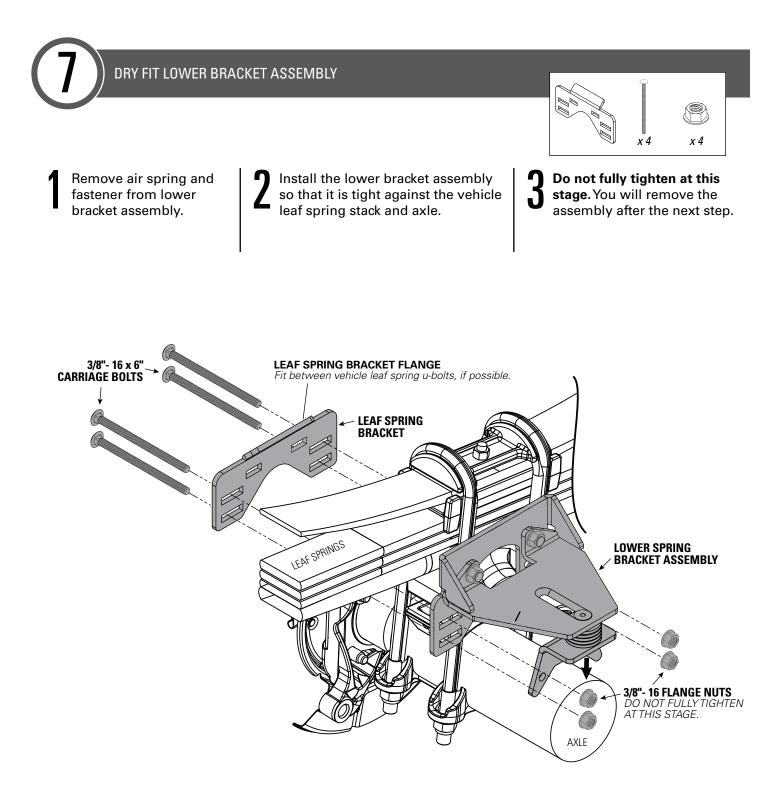
Fully-tighten the 3/8"-16 flange nut to the flat head cap screw.

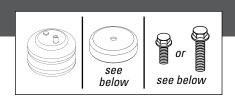
DRY FIT AIR SPRING



Fasten the air spring to the lower spring bracket. **DO NOT FULLY TIGHTEN AT THIS STAGE**. **AIR SPRING** LOWER BRACKET ASSEMBLY 3/8"- 16 x 1" FLANGE BOLT DO NOT FULLY TIGHTEN ATTHIS STAGE.

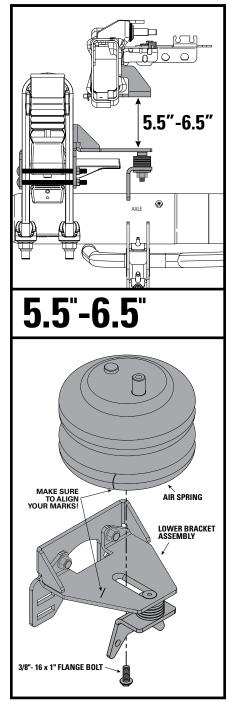




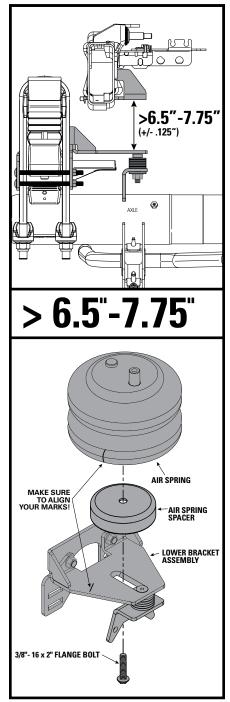


With vehicle unloaded on level ground and supporting its own weight, measure the distance between the bottom of the upper bracket and the top of the lower bracket. Use your measurement to follow the appropriate steps below.

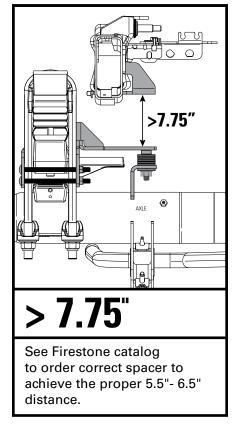
STANDARD INSTALLATION



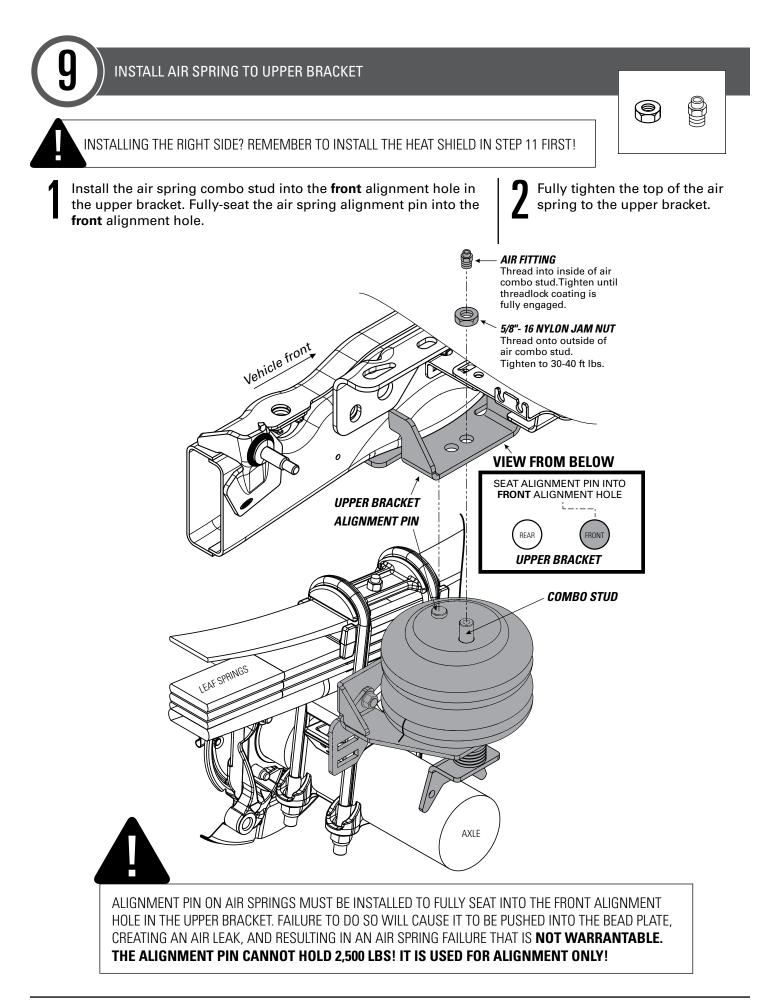
INSTALLATION WITH SPACER

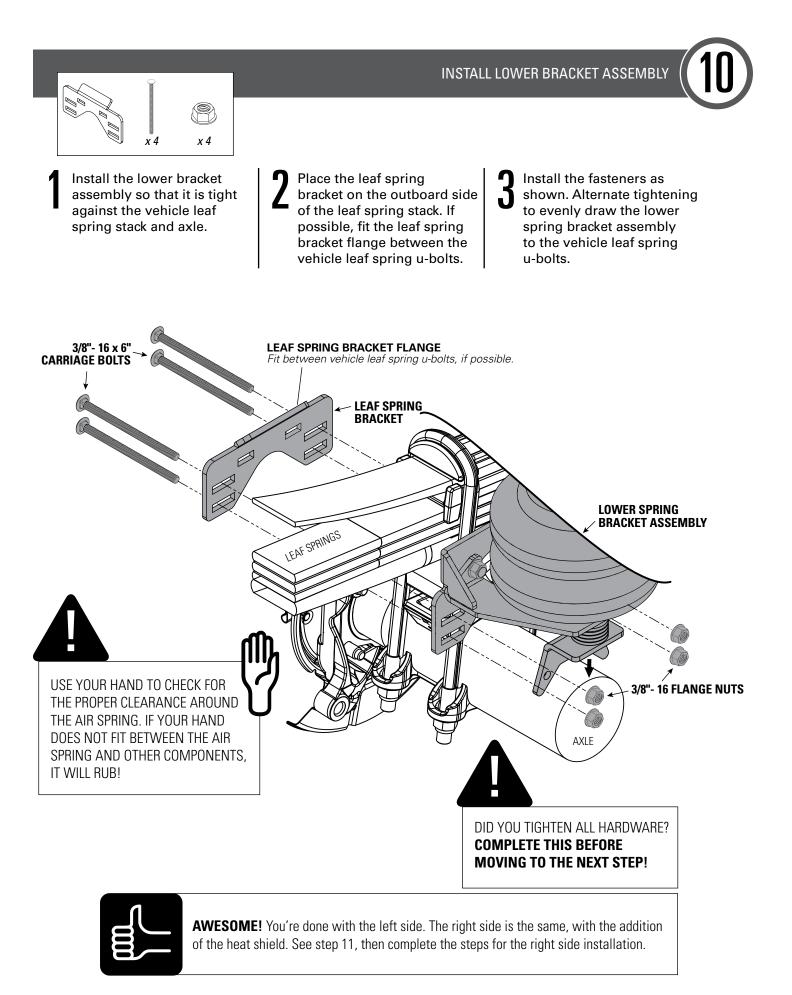


LARGER SPACER REQUIRED

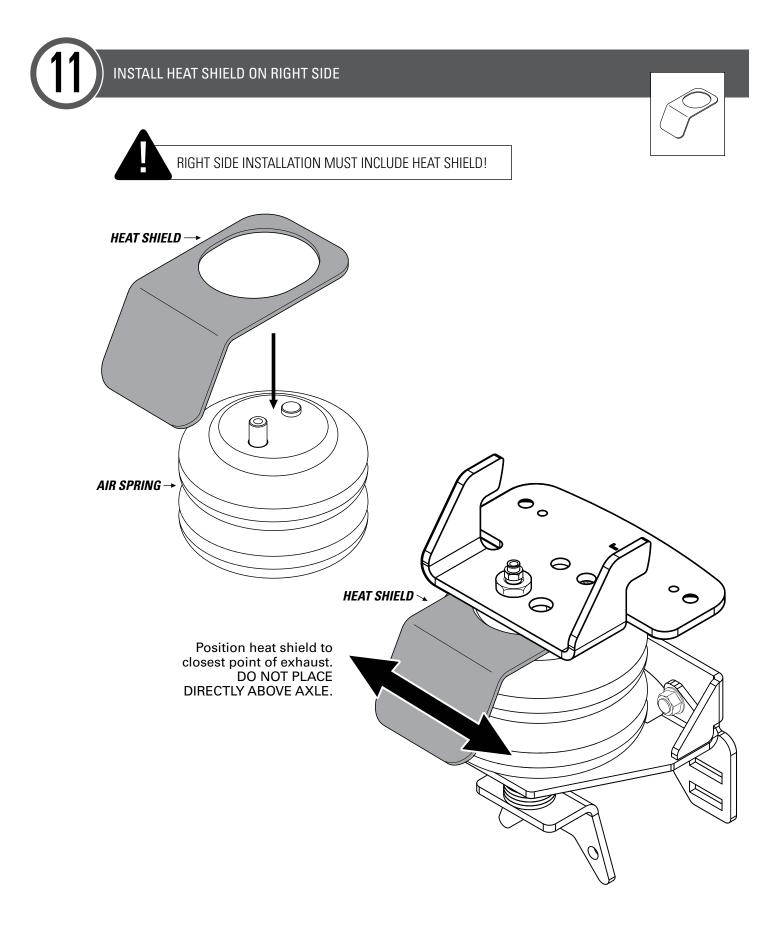






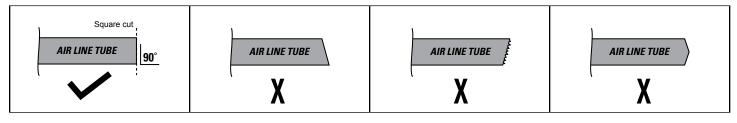


Firestone



INSTALL INFLATION VALVES х 2 x 4 х2 x 2 IF USING THE OPTIONAL NO-DRILL INFLATION VALVE BRACKET, CHOOSE OPTION 1. IF DRILLING, CHOOSE OPTION 2. INFLATION VALVES MUST BE ACCESSIBLE BY AN AIR CHUCK. Secure the air inflation Select a protected location to INFLATION VALVE ASSEMBLY valve bracket to a proinstall the inflation valves, tected, secure location. such as the bumper or the body of the vehicle. **AIR LINE TUBE** Drill two 5/16" holes for 5/16" - 16 FLAT WASHER LARGE inflation valve install NYLON TIES locations. **INFLATION VALVE** 0, 5/16" INFLATION **VALVE NUT EXAMPLE** Vehicle body, bumper or VÁLVE CAP INFLATION inflation valve VALVES bracket. Inflation valve BUMPER install locations. CUT THE AIR LINE TUBE INTO TWO EQUAL LENGTHS Match air line tube ends. Find center of air line tube, make a square cut with tube AIR LINE TUBE cutter or sharp utility knife. DON'T Fold or kink the air line tube. Make sure the cut is as square as possible. Cut the air line tube at an angle. Use a tube cutter or sharp utility knife. Use pliers, scissors, snips, Saws, or side cutters.

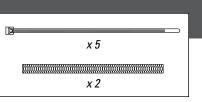
PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE

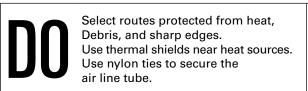




ROUTE AND SECURE AIR LINE TUBES

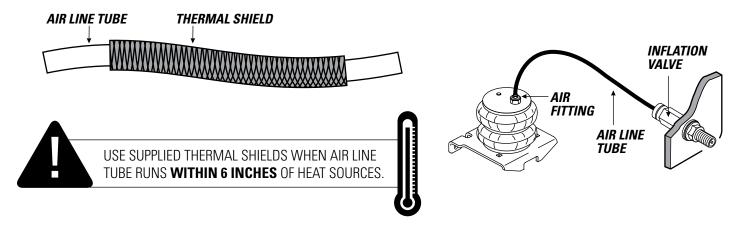
Air line tube routes will vary, depending on your truck, and requires you to choose the best path from the air springs to the inflation valves. Use the instructions below to help you choose.







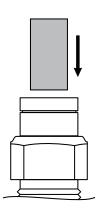
Bend or sharply curve air line tubes. Leave air line tube exposed to sharp edges. Use unnecessary lengths of air line tube. Route air line tube near moving parts. Let air line tube hang unsecured from vehicle. Scar air line tube while routing.



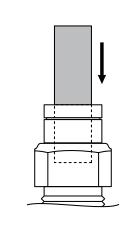


INSTALLING AIR LINE TUBE INTO AIR FITTINGS AND INFLATION VALVE

Insert end of air line tube into air fitting.



Push air line tube into air fitting as far as possible.

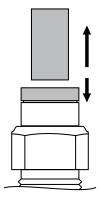


Gently pull on the air line tube to check for a secure fit.

cure 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.

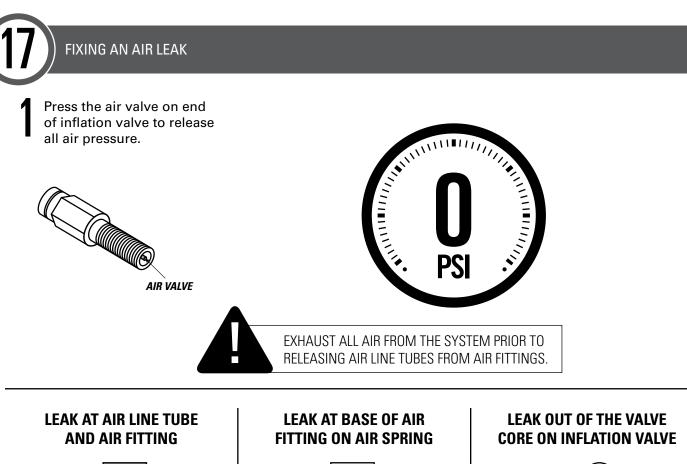
CHECKING THE AIR SYSTEM Place an air chuck onto the Spray fittings with inflation valve and fill the soap and water mixture or glass system to 70 PSI. cleaner. A THE REAL PROPERTY AND A PS WATER SOAP AIR SPRINGS INFLATE QUICKLY. CHECK AIR PRESSURE WHILE INFLATING. Observe bubbles. Source **SOAP BUBBLES SMALL SOAP BUBBLES THAT EXPAND** THAT DO NOT EXPAND X

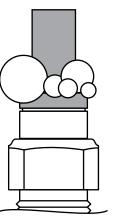
NO LEAKS?

Congratulations! Continue to step 18 to finish installation. Review the Operating Instructions.

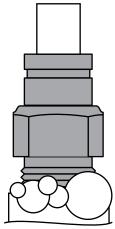
LEAK?

Bummer. Continue to step 17 to fix the leak.





Release air line tube (see page 15). Review proper cuts and procedures in step 13. Repeat steps 15 and 16.



Tighten air fitting one turn or until leak stops.

Tighten valve core with valve core wrench on inflation valve cap.

STILL HAVE A LEAK?

Refer to the Troubleshooting section of the Instruction Manual.



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.

DOUBLE-CHECK AIR SPRING CLEARANCE

Check the air springs once again for the proper 1/2" minimum clearance. Perform clearance check again when vehicle is under load.

VEHICLE GVWR

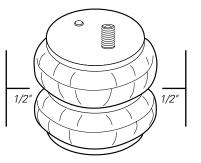
NEVER exceed the maximum load recommended by the vehicle manufacturer (GVWR). The GVWR can be found in your vehicle's owner's manual or on the data plate on the driver's side door. Consult your local dealership for additional GVWR specifications.

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 investment by reading the Operating Instructions.



USE YOUR HAND TO CHECK FOR THE PROPER CLEARANCE AROUND THE AIR SPRING. IF YOUR HAND DOES NOT FIT BETWEEN THE AIR SPRING AND OTHER COMPONENTS, IT WILL RUB!



! IMPORTANT

A MINIMUM OF 5 PSI MUST BE MAINTAINED IN THE AIR SPRINGS AT ALL TIMES

Too much air pressure in the air springs will result in a firmer ride, while too little air pressure will allow the air springs to bottom out over rough conditions, and will not provide the improvement in handling that is possible.



MINIMUM PRESSURE

MAXIMUM PRESSURE (LOADED)



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BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

Do you have a minimum of 5PSI in your air springs?

Are your air springs standing 5.5" - 6.5" tall?

- 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.

□You've been bagged...and now your suspension is Airide[™] equipped! Show it off with the supplied decal!

5.5" - 6.5"

NEED INSTALLATION HELP?

Email us at **rrtech@fsip.com**. Please include photos to help us better diagnose and understand any problems you may be experiencing.



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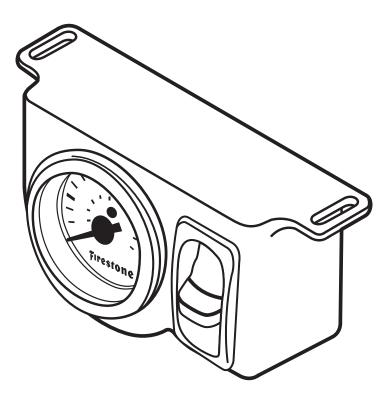


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INSTALLATION INSTRUCTIONS





Firestone Industrial Products

2158

! IMPORTANT

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

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.

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

Be sure to review the load limits noted in the air spring kit installation instructions (sold separately).

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:



MINIMUM PRESSURE

PARTS

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

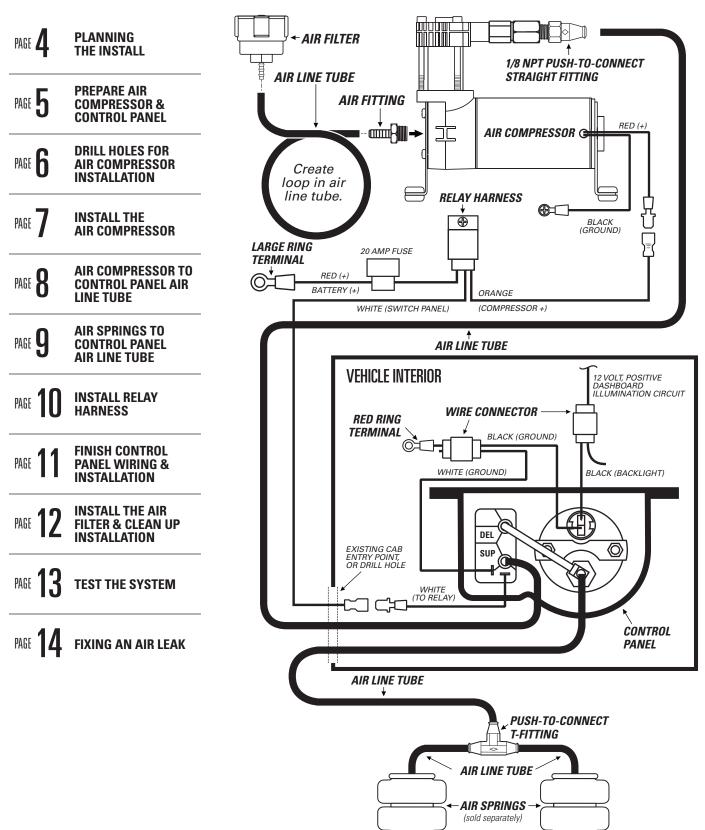
MAIN KIT CONTENTS

PT # 2572	x 1 SINGLE AIR X 1 CONTROL PANEL	PT # 9523	AIR COMPRESSOR	PT # 9307	x 1 RELAY HARNESS
PT # 9416	x 1 AIR LINE TUBE (30 FEET)				

A21-760-2158 HARDWARE PACK

PT # 3087	() Internet in the second	x 8 10-32 x 1" MACHINE SCREW	PT # 9078	□-0	x 1	RED RING TERMINAL	PT # 3055	1/8 NPT PUSH- x 1 TO-CONNECT STRAIGHT FITTING
PT # 3088		x 8 10-32 LOCK NUT	PT # 9083		x 2	WIRE CONNECTOR	PT # 9041	x 1 LARGE RING TERMINAL
PT # 3086	\odot	x 16 #10 FLAT WASHER	PT # 3025		x 1	PUSH-TO- CONNECT T-FITTING	PT # 9036	x 15 NYLON TIE
PT # 3025		x 1 1/4" PUSH-TO- CONNECT TEE	PT # 9041	D-9	x 1	BLUE RING TERMINAL		

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.

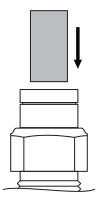
TAPE ALL ELECTRICAL CONNECTIONS

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

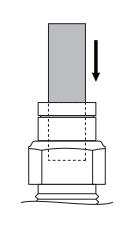
USING PUSH-TO-CONNECT FITTINGS FOR AIR LINES

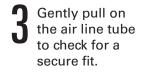
Your kit includes push-to-connect fittings to connect the air line tubes to hardware. Use the instructions below when using the air line.

Insert end of air line tube into air fitting.

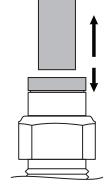


Push air line tube into air fitting as far as possible.

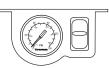




To remove, push down collar and gently pull air line tube away.

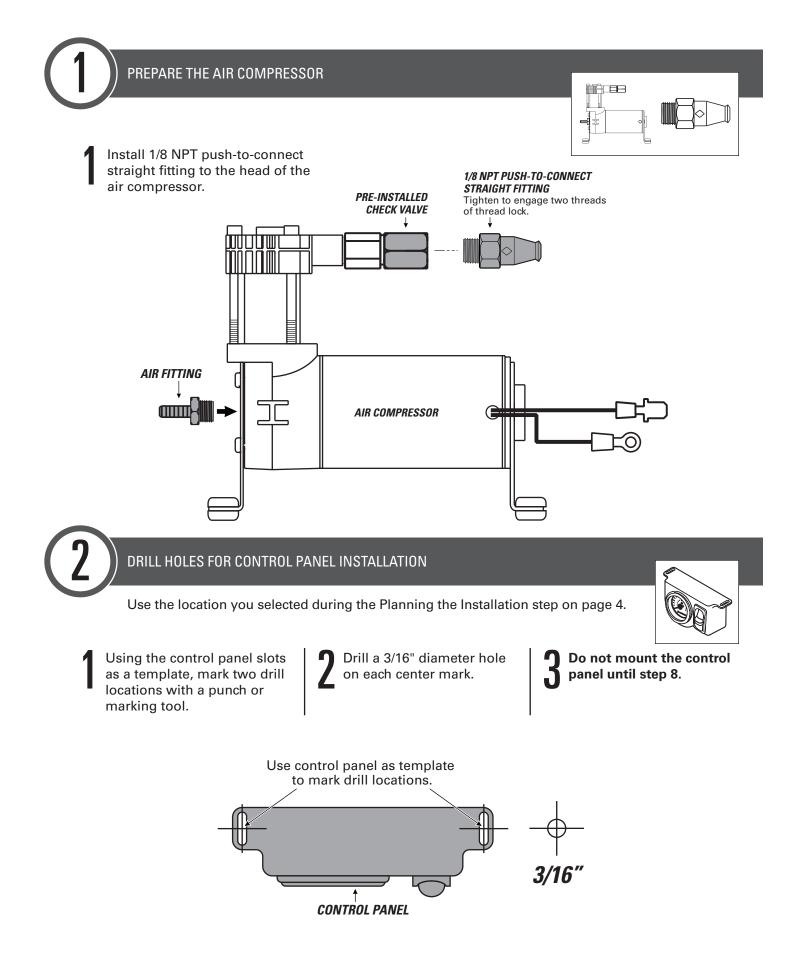


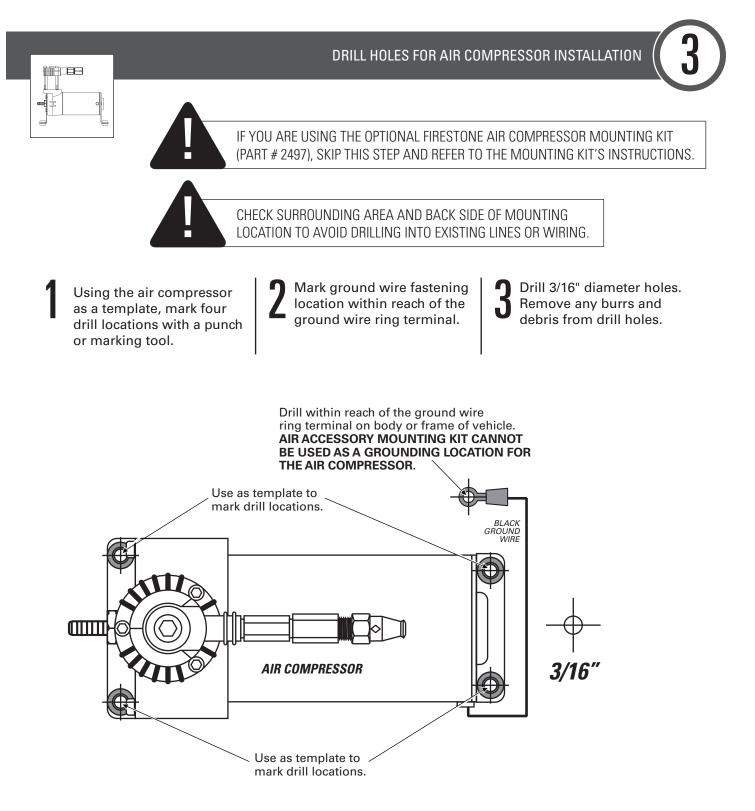
Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

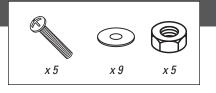










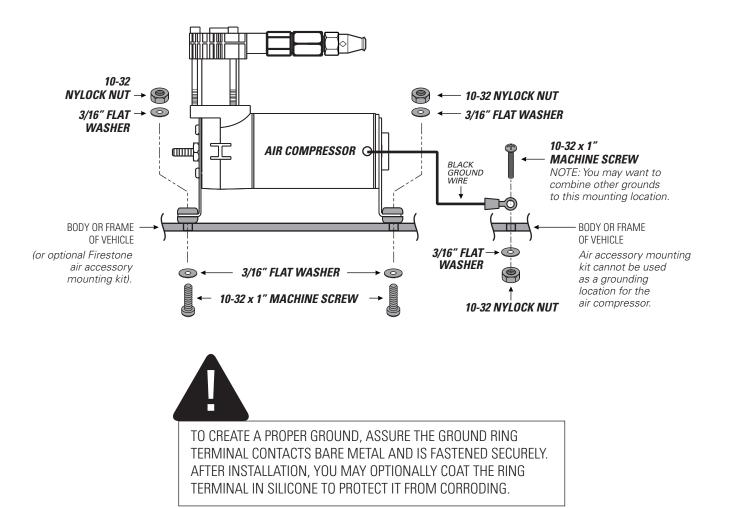


DO NOT OVER TIGHTEN MOUNTING BOLTS AND NUTS. TOO MUCH TORQUE CAN CRUSH THE BRASS INSERTS AND RUBBER ISOLATORS.

Mount the air compressor to the drill hole location using the supplied fasteners. DO NOT OVERTIGHTEN.

2

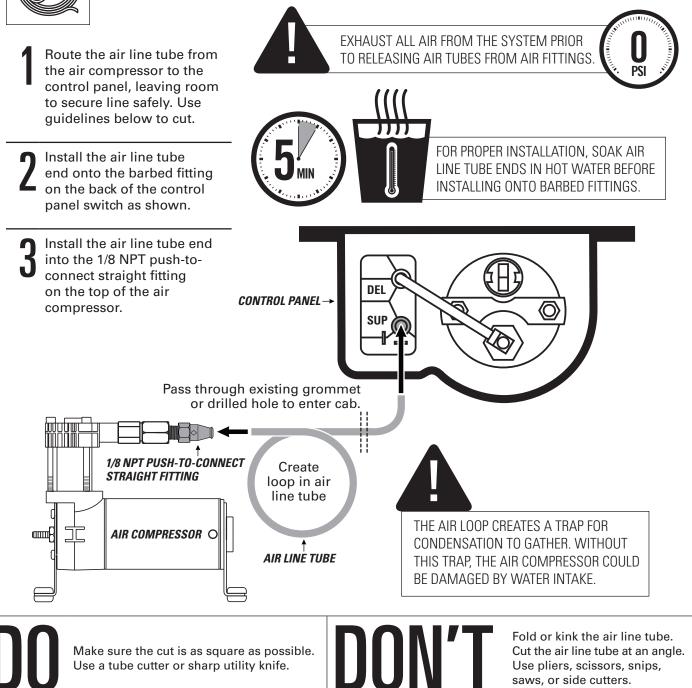
Mount the black ground wire ring terminal using the supplied fasteners. Assure that the ring terminal makes a solid contact with bare metal for a proper ground. (Optionally, you can run the negative to the negative battery terminal.)



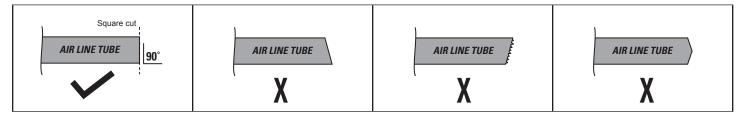
ROUTE AIR LINE TUBE FROM AIR COMPRESSOR TO CONTROL PANEL



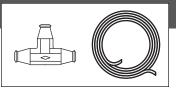
Use the route you selected during the Planning the Installation step on page 4.

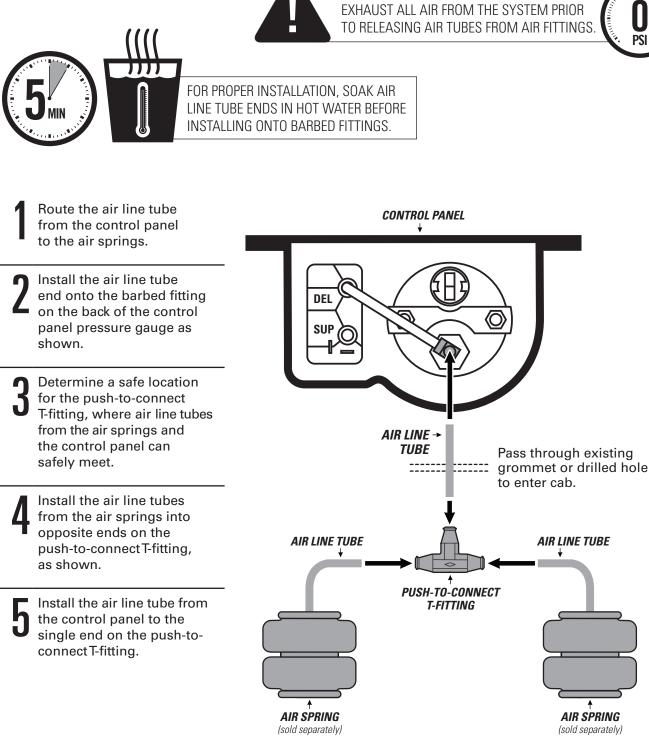


PROPER AND IMPROPER CUTS IN THE AIR LINE TUBE

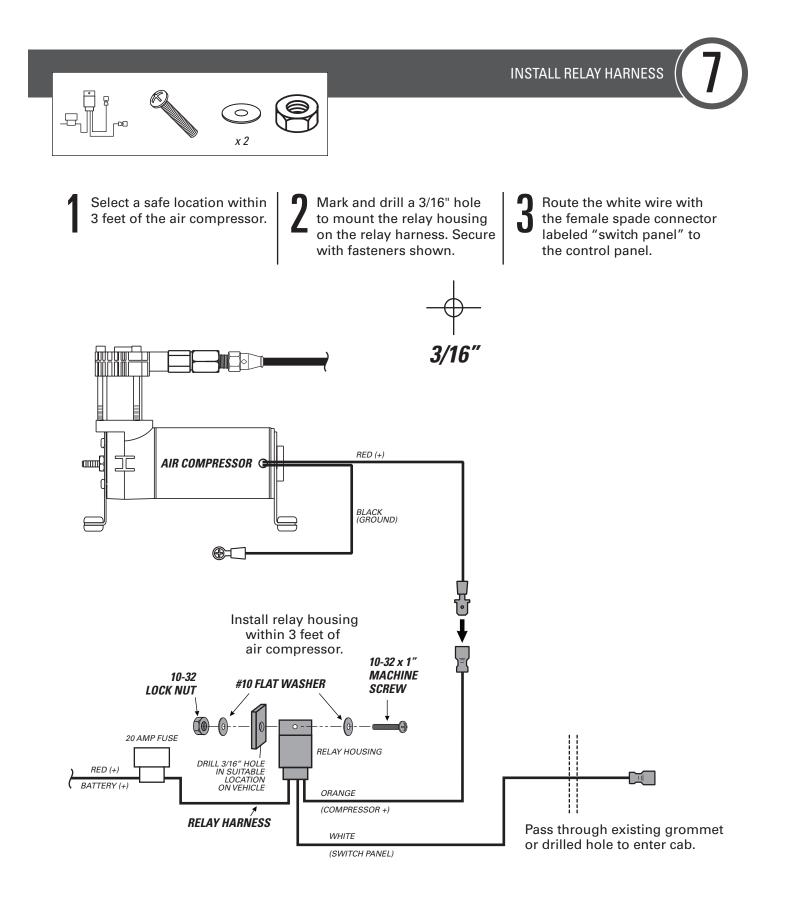


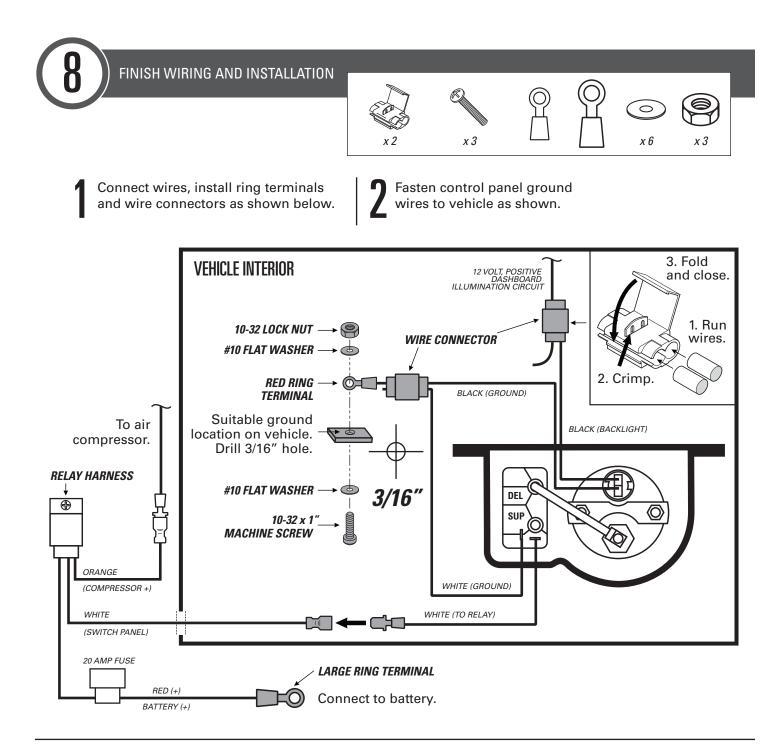
Use the route you selected during the Planning the Installation step on page 4.

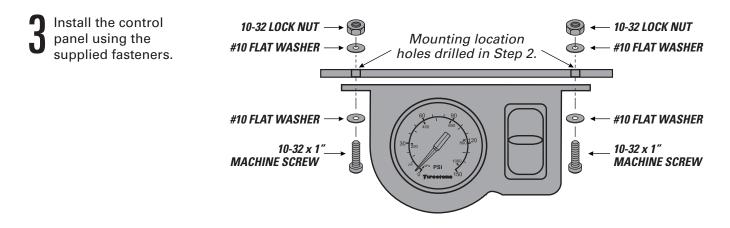




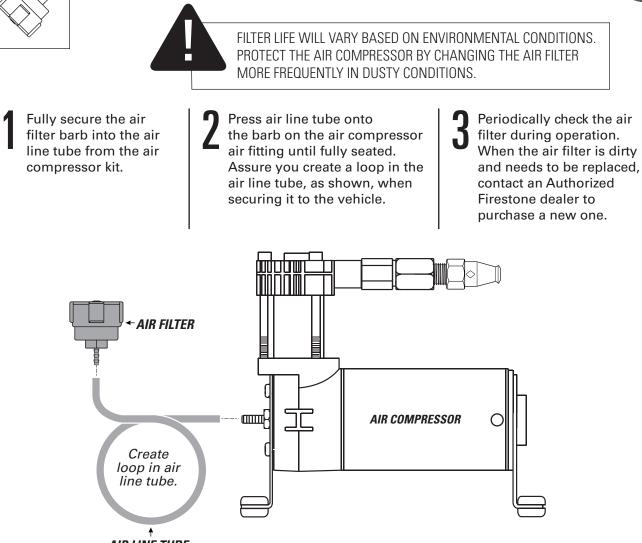
(sold separately)







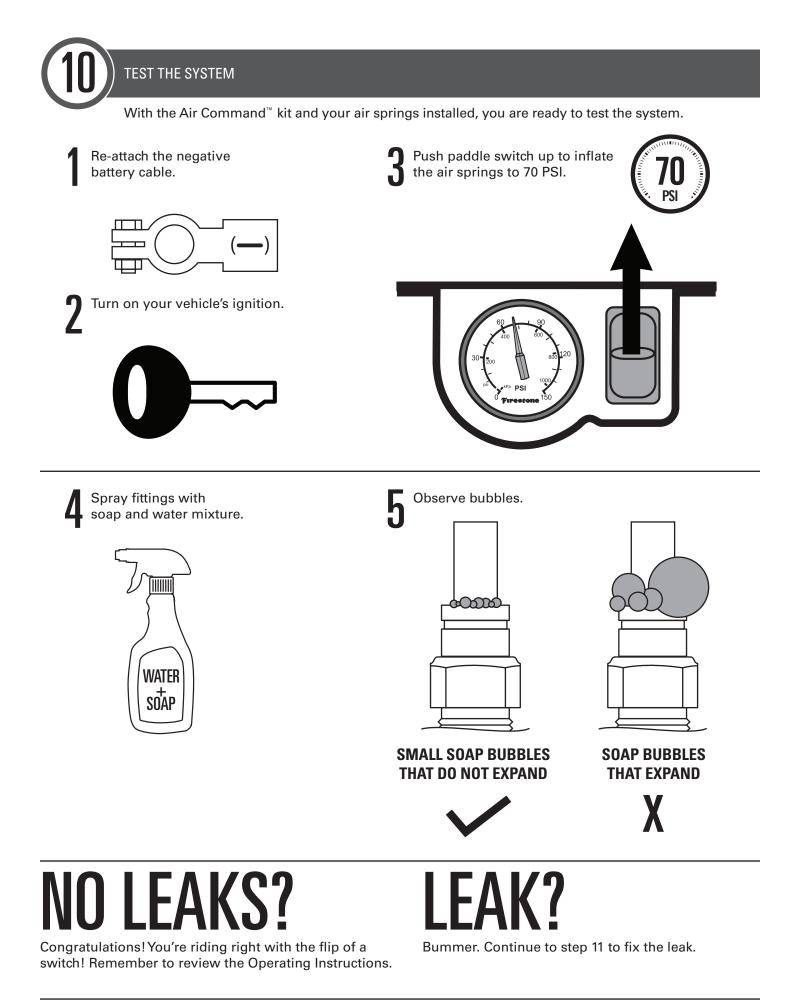




AIR LINE TUBE FROM AIR COMPRESSOR KIT

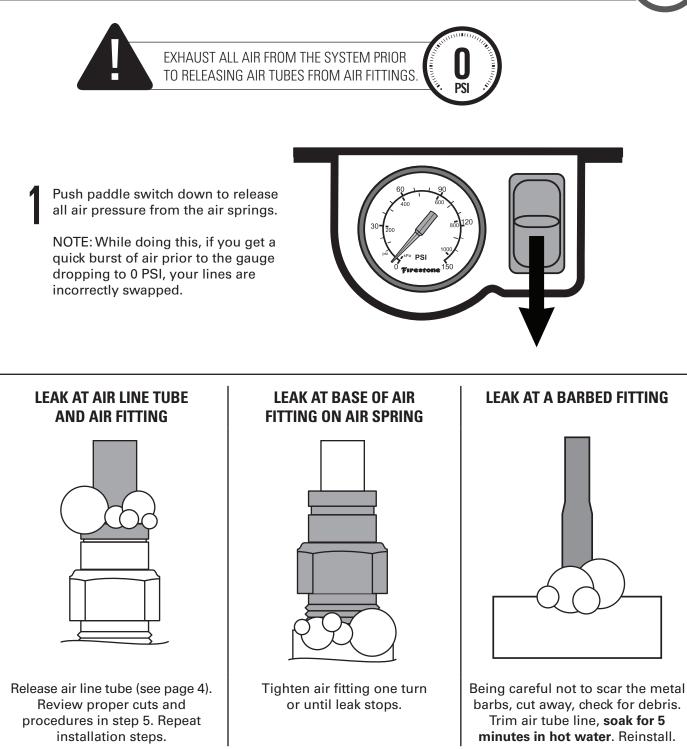
 1
 Clean up the installation using supplied Nylon ties, and return all factory parts and materials to operative state.

 VINING AND AIR LINE TUBE IN A MANNER THAT DOES NOT OBSTRUCT YOUR VIEW OR ABILITY TO SAFELY OPERATE THE VEHICLE.



Firestone





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.



riderite.com

BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

Secure all air line tubes and wiring inside the cab and on the outside of the truck.

A Make sure no wiring, air line tubes, or hardware obstruct your vision or ability to safely operate the vehicle.

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.

 \Box 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.

□ Put a minimum of 5 PSI in the air springs, unloaded.

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**. Please include photos to help us better diagnose and understand any problems you may be experiencing.



Firestone Industrial Products



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** 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
- Sport-Rite air springs Lifetime Limited
- Coil-Rite air springs Lifetime Limited
- Level-Rite air springs Lifetime Limited
- Work-Rite load assists 2 Years Limited
- Air-Rite accessories 2 Years Limited
- Brackets, hardware, fittings, air line, and other components 2 Years 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, terns, and conditions.

WARRANTY QUESTIONS

Go to www.riderite.com/installation-support

Select "Warranty Info" tab