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INSTALLATION INSTRUCTIONS





FIRESTONE INDUSTRIAL PRODUCTS COMPANY

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.

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

MAXIMUM PRESSURE (LOADED)

PARTS AND TOOLS

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

MAIN KIT CONTENTS



A21-760-2158 HARDWARE PACK

PART # 3087	C	x 7 10-32 x 1" MACHINE SCREW	PART # 9078	0-0	x 1	SMALL RING TERMINAL	PART # 3055	x 1	1/8 NPT PUSH- TO-CONNECT STRAIGHT FITTING
PART # 3008	9	x 7 10-32 LOCK NUT	PART # 9083	J.	x 2	WIRE CONNECTOR	PART # 9041	x 1	LARGE RING TERMINAL
PART # 3086	\odot	x 14 #10 FLAT WASHER	PART # 3025		x 1	PUSH-TO- CONNECT T-FITTING	PART # 9036		x 15 NYLON TIE

TOOLS REQUIRED:

<i>3/16" DRILL BIT (2) 7/16" WRENCHES OR SOCKETS 9/16" WRENCH OR SOCKET WIRE CRIMPER/STRIPPER</i>	PHILLIPS SCREW DRIVER POWER DRILL ELECTRICAL TAPE	PLIERS UTILITY KNIFE CENTER PUNCH OR MARKING TOOL	
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OPTIONAL:

EXTRA 18 GAUGE MULTI-STRANDED WIREEXTRA CRIMP CONNECTORSEXTRA 12 GAUGE MULTI-STRANDED WIRE3/16" DRILL BIT (If drilling through firewall)

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.





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 INSERT AND RUBBER ISOLATORS.

- Mount the Air Compressor to the drill hole location using the supplied fasteners. DO NOT OVER TIGHTEN.
- 2

Mount the black ground wire 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.









PSI III

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











CLEAN UP INSTALLATION

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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. h soap and water mixture. Source WATER SOAP **SMALL SOAP BUBBLES SOAP BUBBLES** THAT DO NOT EXPAND THAT EXPAND **NO LEAKS?** I FAK?

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

Firestone

Bummer. Continue to Step 11 to fix the leak.





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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BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

 \Box Secure all Air Line Tubes and wiring inside the cab and on the outside of the truck.

Air Line Tubes, or hardware obstruct your vision or ability to safely operate the vehicle.

 \Box 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.

The air gauge backlight turns off when the ignition is off, or when dashboard lights do not illuminate.

□ Put a minimum of 5PSI 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**. If emailing, please include photos to help us better diagnose and understand any problems you may be experiencing.



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