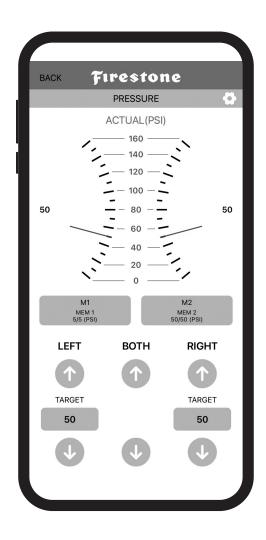


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### **INSTALLATION INSTRUCTIONS**



2631

## AIMPORTANT

#### PLEASE DON'T HURT YOURSELF, THE 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.

#### **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 THE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS. FOR FIRESTONE, GENERALLY:





MINIMUM PRESSURE

MAXIMUM PRESSURE (LOADED)



MINIMUM PRESSURE

MAXIMUM PRESSURE (LOADED)

RED LABEL AIR SPRING REQUIREMENTS:









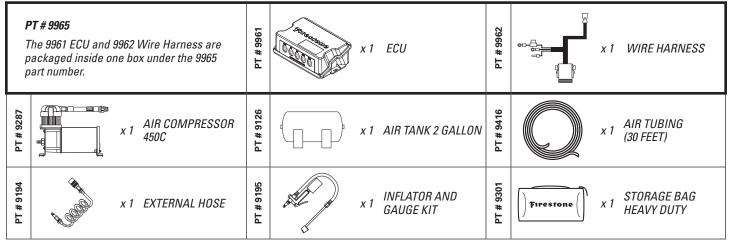
MAXIMUM PRESSURE (LOADED)



# PARTS

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

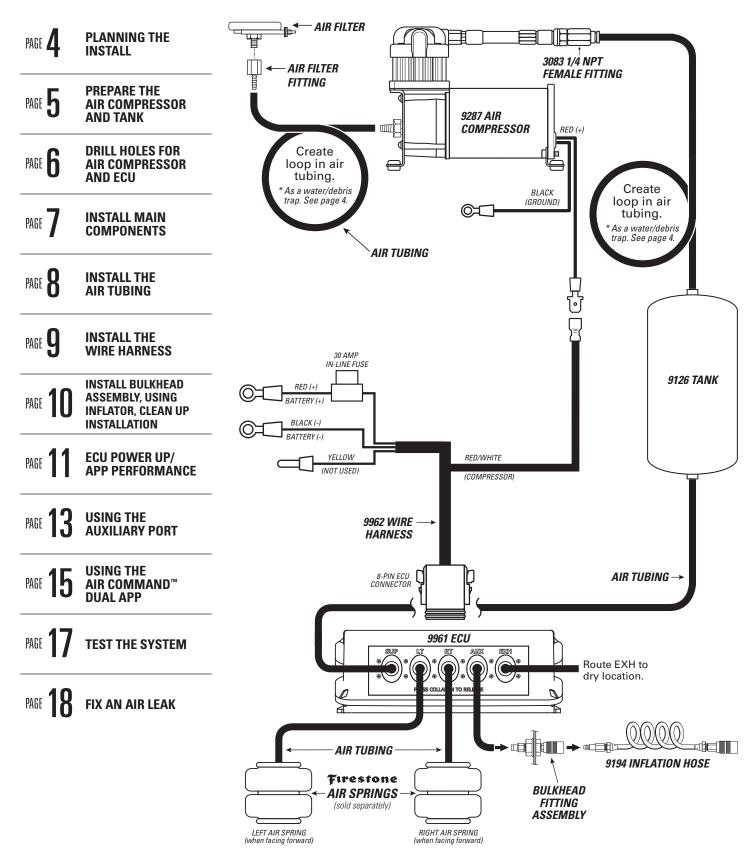
#### **MAIN KIT CONTENTS**



#### A21-760-2631 HARDWARE PACK

PT # 3087	Ð	x 4 10-32 x 1" MACHINE SCREW	PT # 3093	(†)	x 2	10-32 x 3/4" MACHINE SCREW	PT # 0070		x 4	3/8-16 x 1.00 HEX HEAD CAP SCREW GR2
PT # 3421	Ð	10-16 x 3/4" x 1 SELF-TAPPING SCREW	PT # 3088	Ø	x 6	10-32 NYLOCK NUT	PT # 3067	(j)	x 4	3/8-16 HEX HEAD FLANGE CENTER LOCK NUT
PT # 3086	$\bigcirc$	x 12 #10 FLAT WASHER	PT # 0071	$\bigcirc$	x 8	3/8 FLAT WASHER	PT # 9483	No No	x 1	INFLATION VALVE MOUNTING BRACKET
PT # 3046		x 3 1/4 STRAIGHT FITTING PTC	PT # 3083		x 1	1/4 NPT FEMALE 1/4 PTC	PT # 9196		x 1	DRY COUPLER FITTING
PT # 3146		x 1 /4 NPT ANCHOR x 1 COUPLING	PT # 3055		x 1	1/8 NPT PUSH- TO-CONNECT STRAIGHT FITTING	PT # 3025		x 2	1/4 PUSH- TO-CONNECT TEE
PT # 3032		INFLATION VALVE x 2 AND VALVE CAP ASSEMBLY	PT # 9488		x	4 LARGE NYLON TIE	PT # 0899			4 THERMAL SLEEVE
# 9036										
PT #		x 20 RED 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 AIR COMPRESSOR

- Provides ample air flow and is protected from airborne debris and moisture.
- Mount close enough to the ECU to allow Wire Harness connections to reach.
- If using the optional Firestone Air Accessory Mounting Kit, consider the
- guidelines above, and follow the kit's instructions.

#### DETERMINE THE MOUNTING LOCATION FOR THE ECU

- Mount close enough to the Air Compressor to allow Wire Harness connections to reach.
- Allow room for Air Tubing to connect to the Air Fittings on the ECU.
- Allow room for the 8-pin ECU connector to connect to the ECU.
- Allow room for the AirTubing to run without sharp curves or bends.
- Using supplied fasteners shown in Step 3 is recommended. If no other mounting option is available, see the sidebar on Step 2 for using the Large NylonTies.
- Select a location that is solid and secure on the body or frame of the vehicle, away from any moving parts, electrical or any other lines.

#### PLAN INSTALLATION ROUTES FOR WIRING AND AIR LINES

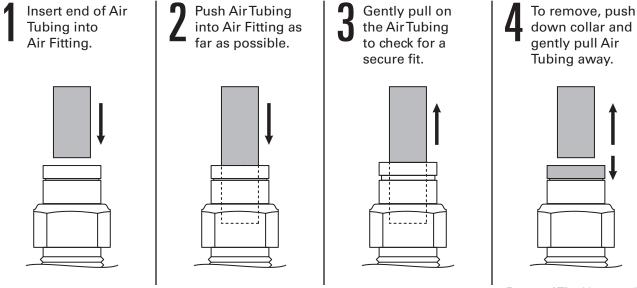
- Make sure the Wire Harness and Air Tubing are not exposed to sharp metal edges that can damage them.
- Use supplied Thermal Sleeves on Air Tubing when routing near heat sources.
- Use supplied Nylon Ties to secure Air Tubing and Wire Harness to the vehicle.
- Make a loop in the Air Tubing where shown. This creates a water/debris trap that protects the Air Compressor.
- Measure twice, cut once!

#### 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 AirTubing to hardware. Use the instructions below when using the AirTubing.



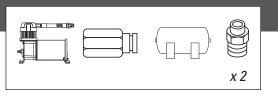
**Removal Tip:** Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.



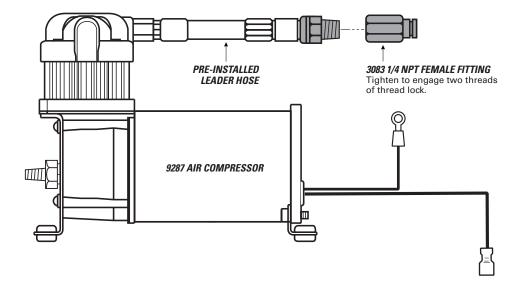


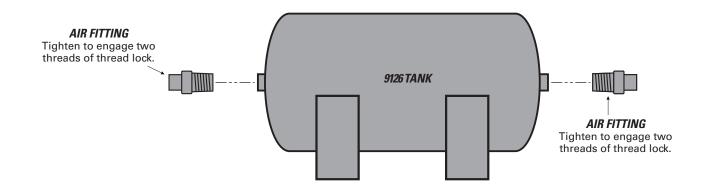


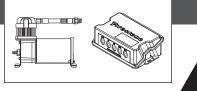
NOTE: Air Compressor can be mounted facing any direction.



Install 1/4 Female NPT Push-to-Connect Straight Fitting on the Check Valve.



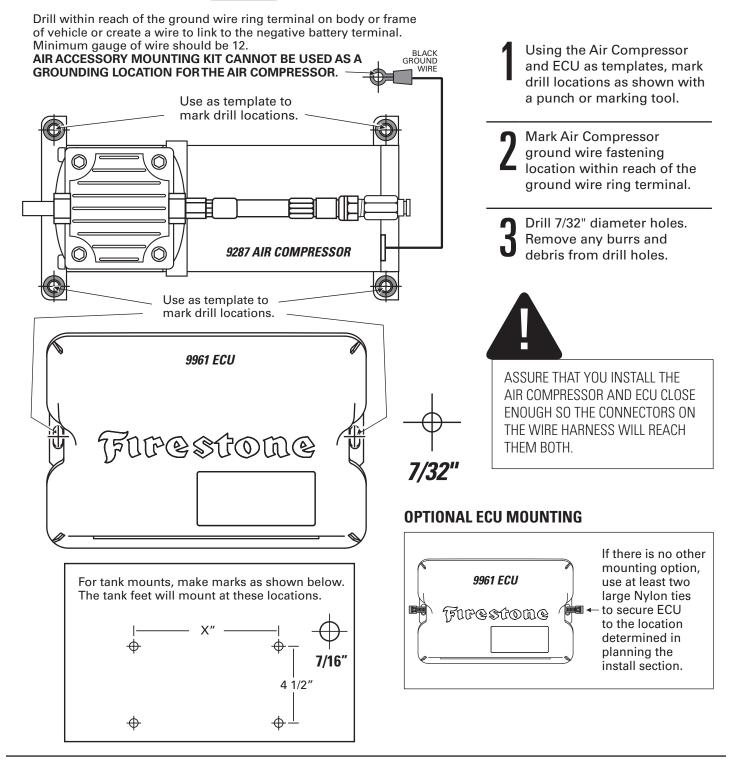




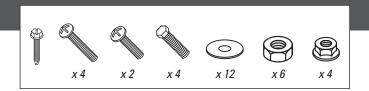


CHECK SURROUNDING AREA AND BACK SIDE OF MOUNTING LOCATION TO AVOID DRILLING INTO EXISTING LINES OR WIRING.

IF YOU ARE USING THE OPTIONAL FIRESTONE AIR ACCESSORY MOUNTING KIT, SKIP THIS STEP AND REFER TO THE MOUNTING KIT'S INSTRUCTIONS.

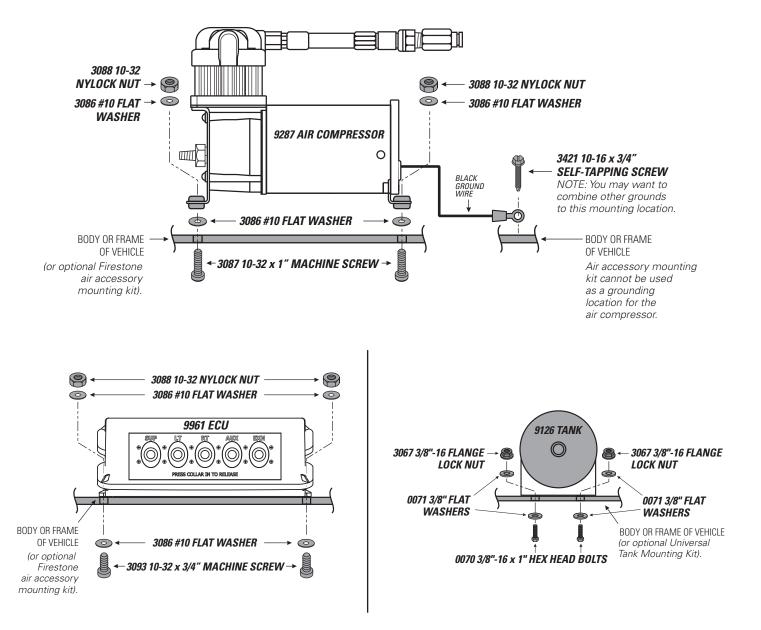


**INSTALL MAIN COMPONENTS** 



DO NOT OVER TIGHTEN MOUNTING BOLTS AND NUTS ON THE AIR COMPRESSOR. 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 ECU to the drill hole location using the supplied fasteners.
- 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.







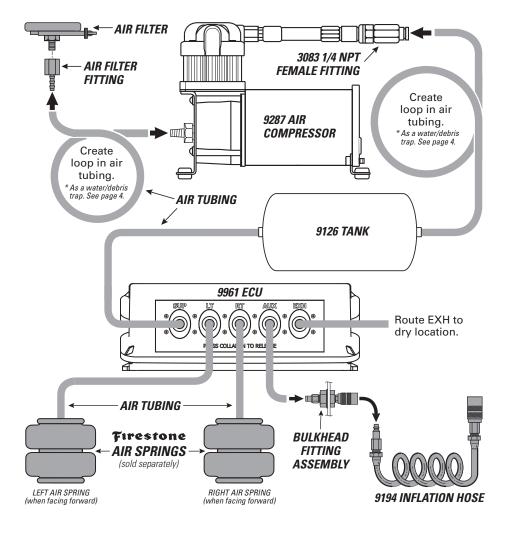
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR TUBING FROM AIR FITTINGS.

Route the AirTubing from the 1/4" NPT female fitting to the tank and from the tank to the Supply (SUP) Air Fitting on the ECU, leaving room to secure it safely. Use the guidelines on page 4 for proper push-to-connect fitting install.

2 Repeat Step 1 to route Air Tubing from the ECU to the Air Springs. Use the RT and LT Air Fittings on the ECU.

**3** Install Air Tubing to the Exhaust (EXH) Air Fitting to reduce exhaust noise and prevent dirt from clogging the port (recommended for off-road or dirty environments). Do not exceed 16" of Air Tubing, and secure it so the end turns to the ground.

Use supplied Nylon ties to install the air filter in a dry, secure place, away from dirt and debris. Periodically check the air filter during operation, and replace it when it becomes dirty.



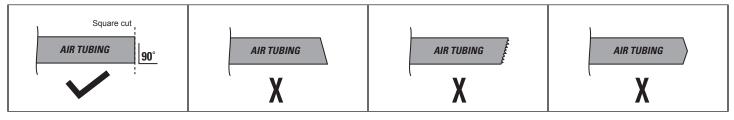
Make sure t Use a tube

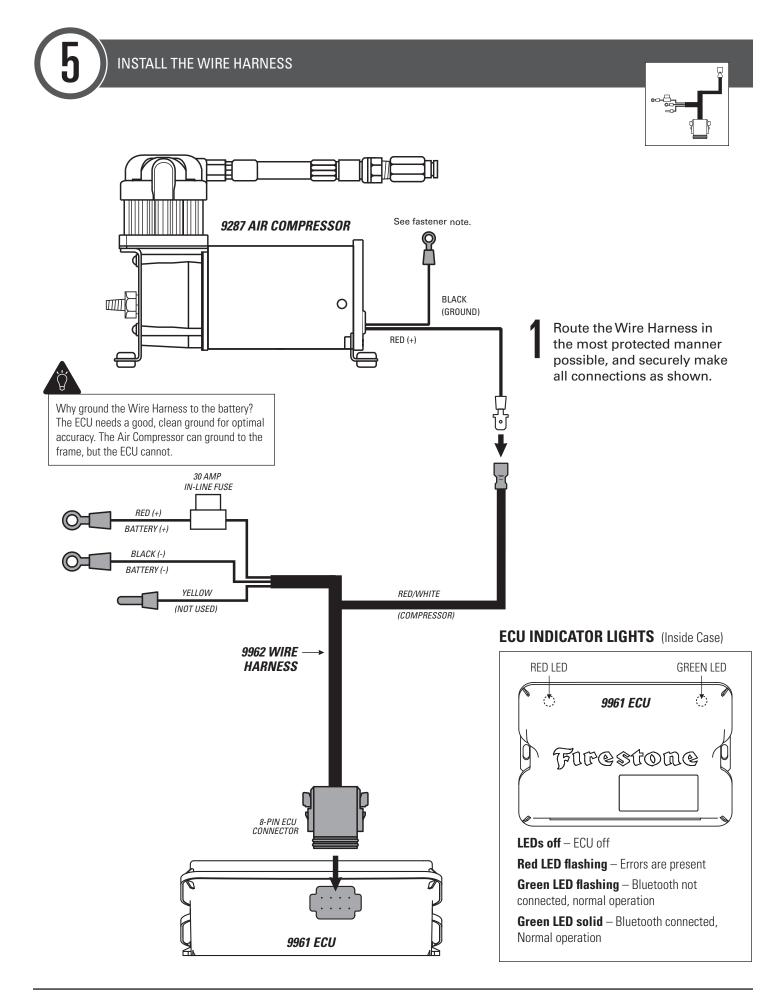
Make sure the cut is as square as possible. Use a tube cutter or very sharp utility knife.

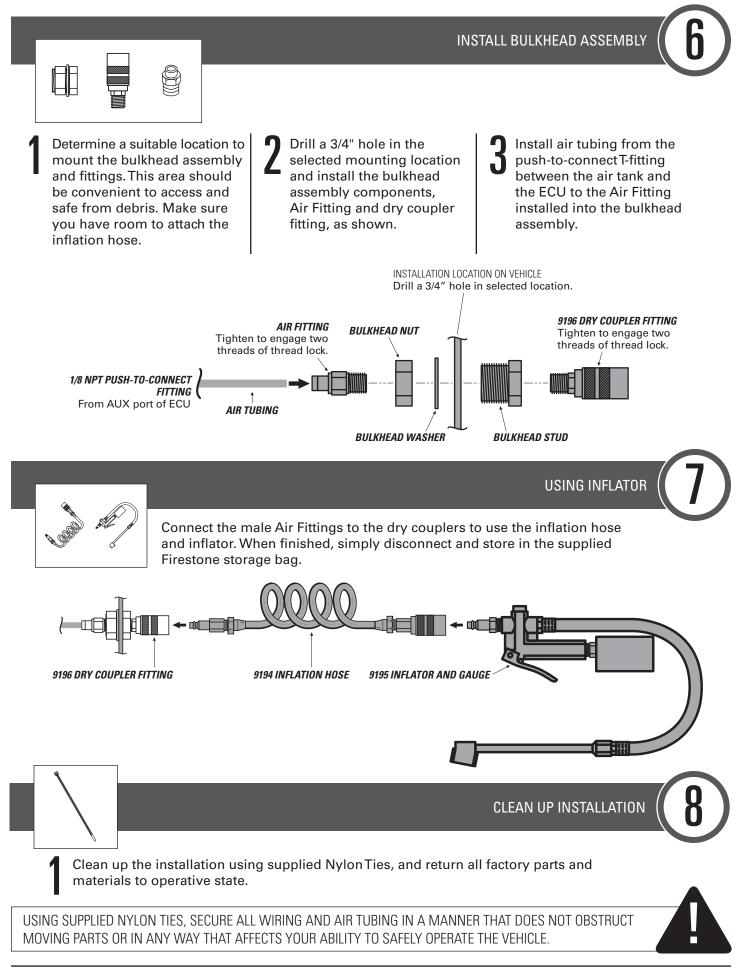


Fold or kink the AirTubing. Cut the AirTubing at an angle. Use pliers, scissors, snips, saws, or side cutters.

#### PROPER AND IMPROPER CUTS IN THE AIR TUBING







Download app from Google Play or Apple Store. Search for 'Air Command Dual'.

**7** Start the vehicle and open app.

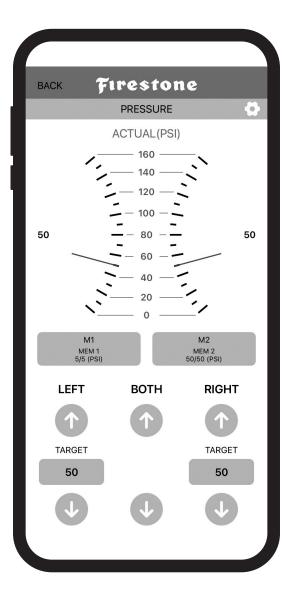
Select **SCAN** and click on the ECU from the screen.

Follow onscreen prompts to link to the ECU and press **NEXT.** 

5

Default passkey is **123456**.

**6** Select 'Settings' icon and turn on TANK MODE. This will maintain the tank pressure at the desired settings (On 90 psi - Off 120, for example).



A SOLID GREEN LED

ON THE ECU INDICATES

#### **FACTORY RESET** (TROUBLESHOOTING ONLY)

- Remove fuse from red wire by battery or remove wire harness connector from ECU
- Remove app from phone
- Reinstall fuse or plug wire harness connector back into the ECU
- Download the app

The ECU will remain active for two hours after initial installation or factory reset.

After voltage drop due to engine stop, the ECU will remain active for up to thirty minutes.

# BLUETOOTH IS CONNECTED 9961 ECU

#### OVER THE AIR FIRMWARE UPDATE

#### If an OTA update is available, a popup will appear on the app to activate.

After voltage drop due to engine stop, the ECU will remain active for five minutes.

- If you select SKIP, the firmware can be updated once connected to the app
- If you select INSTALL, the firmware will begin to update. This will take approximately 3-4 minutes
- Keep the app open during the update and stay within range of the ECU until complete
- Once OTA is complete, restart the app, use the default passkey, and use as normal

Select AUX PORT in the app settings menu

#### 2

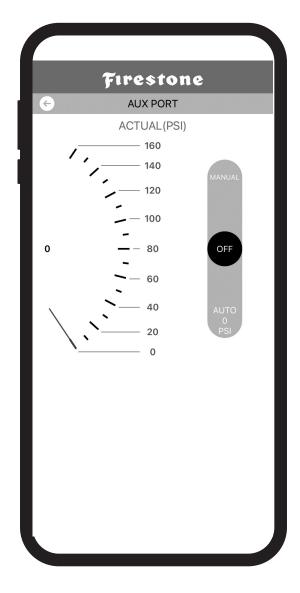
#### MANUAL MODE

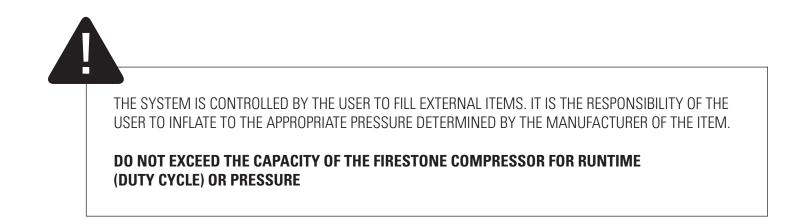
(slide from OFF to MANUAL)

- This will start the compressor and allow the user to monitor the air pressure that the auxiliary tubing is being used to fill.
- There is no timer using this setting

#### AUTO MODE

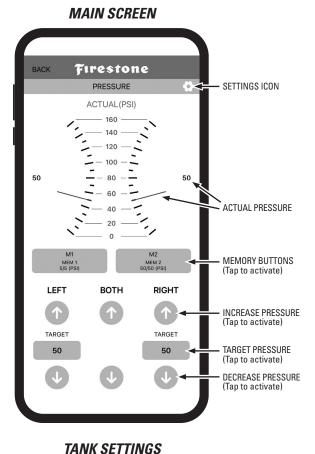
- Click AUTO and input a pressure
- Slide down to the AUTO setting to activate the system
- A timer will start to countdown and the system may cycle on/off as the external component is being filled



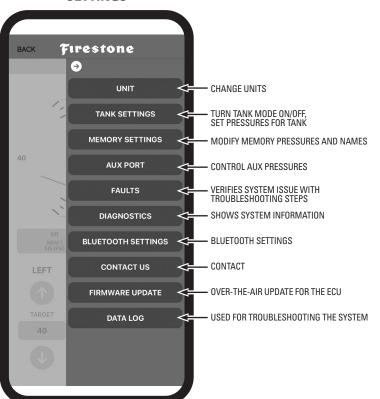


(11)

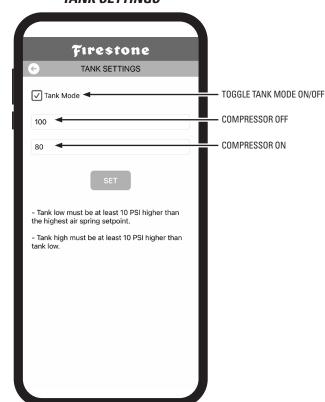
#### USING THE AIR COMMAND<sup>™</sup> DUAL APP

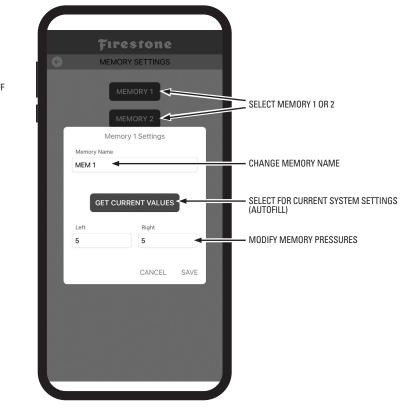


#### SETTINGS

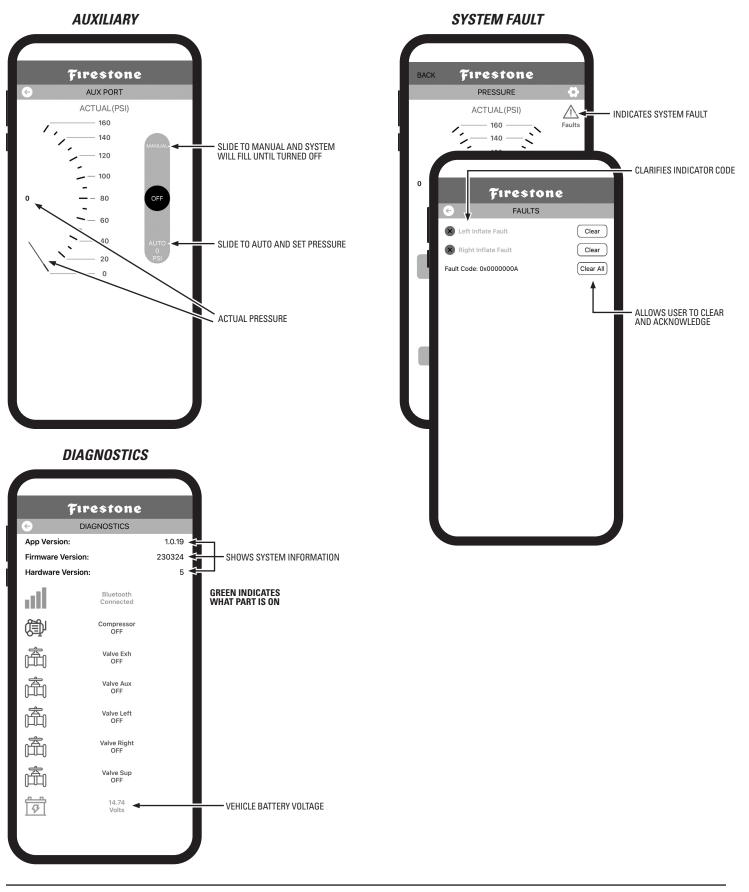


#### **MEMORY SETTINGS**





#### USING THE AIR COMMAND<sup>™</sup> DUAL APP



Firestone

TEST THE SYSTEM With the Air Command<sup>™</sup> Dual App and your Air Springs installed, you are ready to test the system. Reattach the negative Use the Air Command<sup>™</sup> Dual App to inflate the Air Springs to 70 PSI. battery cable. See Step 9 for details. Firestone





Spray fittings with soap and water mixture or glass cleaner.



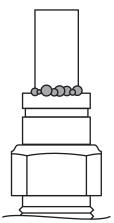
Observe bubbles. h

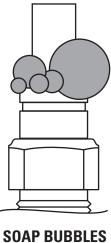
LEFT

вотн

 $\mathbf{\hat{T}}$ 

RIGHT





**SMALL SOAP BUBBLES** THAT DO NOT EXPAND



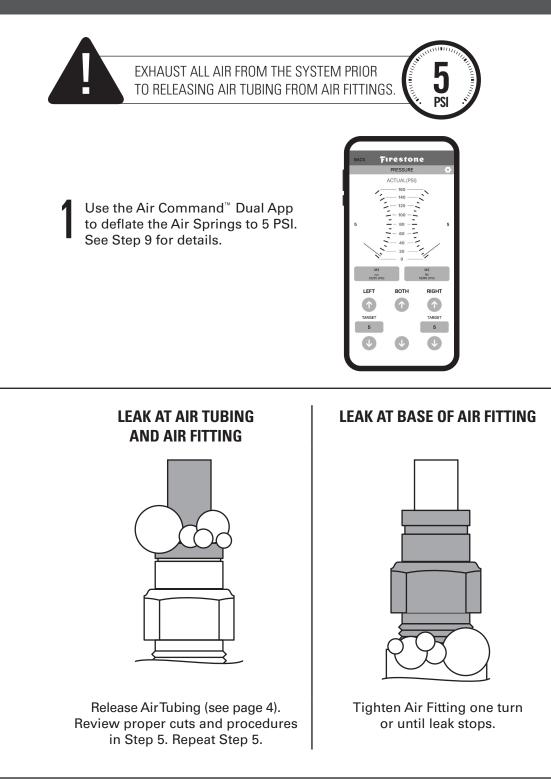
THAT EXPAND

## **NO LEAKS?**

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

Bummer. Continue to Step 13 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, 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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#### BEFORE YOU DRIVE, CONFIRM THE FOLLOWING:

- Secure all AirTubing and wiring.
- $\hfill\square$  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 Wire Harness is grounded to the negative (-) battery terminal. The ECU needs a good, clean, interference-free ground.
- □ There is a loop in the AirTubing as shown to prevent water or debris from getting into the Air Compressor head and damaging it.

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.



**Firestone Industrial Products** 

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