

REVO
AIR ASSISTED COIL TECHNOLOGY **ATS**
USER'S MANUAL

INITIAL START UP AND SYSTEM ADJUSTMENT

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IMPORTANT

TAKE A MINUTE TO READ THIS IMPORTANT INFORMATION

VEHICLE SAFETY

If total payload is greater than 500lb, the vehicle must be operated in LOW range to reduce speed and allow greater distance for braking. Overloading or carrying tall, off-center, or unsecured loads will increase your risk of losing control. Loads should be centered and carried as low as possible in the box. For stability on rough or hilly terrain, reduce speed and cargo, as well as avoiding side-hilling (riding across slopes).

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 tag in the cargo box of the vehicle. Consult your local dealership for additional GVWR specifications.

APPROPRIATE AIR PRESSURE

For the 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, and personal preference.

ONCE INSTALLED SUCCESSFULLY, FOLLOW THE PRESSURE REQUIREMENTS FOR THE AIR SPRINGS.



ABOUT THE SYSTEM

This system is designed to be controlled with either the included Air Command Dual Remote or the Air Command Dual App for Android and Apple mobile devices. The system can be operated simultaneously with either option, however for the initial set up it is recommended to use the Dual Remote. The Dual Remote is tested and paired to the ECU prior to shipping to make sure that it functions correctly.

Upon initial power up, the ECU will remain active for two hours to allow for initial remote setup. The system is designed to “go to sleep” during periods of inactivity to reduce the draw on the vehicle’s battery. If you installed the fuse and the remote won’t connect, start the machine and once the system detects an increase in voltage it will wake up. Under normal operating conditions, the system will power down after the ignition has been turned off for 10 minutes.

IMPORTANT: The installation process must be completed before attempting the following steps. Refer to the **INSTALLATION GUIDE** for installation steps and procedures.



STEP ONE: CONNECT DUAL REMOTE (RECOMMENDED)

NOTE: Check the battery status of the remote prior to initiating the start-up and adjustment procedures.

- A. Turn the vehicle's ignition switch to the ON position.
- B. Press any button on the Dual Remote to turn it on.
- C. If you receive a “CONNECTION NOT FOUND” message on the display, start the engine to ensure the ECU is awake, then select “RETRY” on the remote.
- D. The remote should pair with the ECU, and a “CONNECTED” message will appear on the display. Proceed to the “HOW TO ADJUST YOUR SYSTEM” section.
- E. If the Dual Remote does not pair with the ECU, refer to the troubleshooting section on page 7 of this manual.



STEP TWO: DOWNLOAD AND CONNECT DUAL APP (OPTIONAL)

- A. Download the app from Google Play or the Apple Store (search for “Air Command Dual”).
- B. Turn the vehicle's ignition switch to the ON position and open the Air Command App on your device.
- C. Select SCAN and click on the ECU from the screen.
- D. Follow the onscreen prompts to link the ECU and then press NEXT.
- E. Enter the default passkey is 123456.
- F. If the Dual App does not pair with the ECU, refer to the troubleshooting section on page 10 of this manual.



STEP THREE: ADJUST THE AIR PRESSURE

- A. Start by setting the air pressure to 10 psi on both front and rear systems using the Dual Remote or Air Command App, and save this setting as **MEMORY 1** for unloaded use.
- B. Load the machine while ensuring not to exceed the manufacturer's GVWR.
- C. Increase air pressure as needed to level the machine, mimicking its stance when unloaded.
- D. Drive the machine forward or backward on level ground, letting it come to a stop naturally without brakes.
- E. Perform visual checks and adjust air pressure incrementally (by ± 10 psi) until the ride height is level.

WARNING: DO NOT EXCEED 100 psi of OPERATING PRESSURE

- F. Repeat steps C and D to confirm the stability of the ride height.

NOTE: If this is a normal or consistent load scenario (i.e. snow plow, water tank, trailer), once an adequate pressure setting is found, save this setting as **MEMORY 2** for use when loaded.

NOTE: Spring preloads are preset at the factory per model, altering the spring preload from the factory position will **VOID THE WARRANTY**.





STEP FOUR: ADJUST THE DAMPING

After setting the air pressure to achieve the desired ride height(s) in **STEP 3**, follow these steps to adjust the damper control knobs on each shock. This ensures a comfortable and stable ride. Although the damper adjusters are preset to the middle of their range from the factory, users can customize the settings to suit their preferences based on the terrain and load conditions.

- A. Turn the adjuster knob clockwise (in the SLOW direction) until it stops, this is the fully closed position (or position ZERO).
- B. Then turn the adjuster knob counterclockwise (in the FAST direction) and count the number of clicks or detents that are indexed every 1/2 turn.
- C. Set adjuster knobs on both shocks to the same position (left to right).

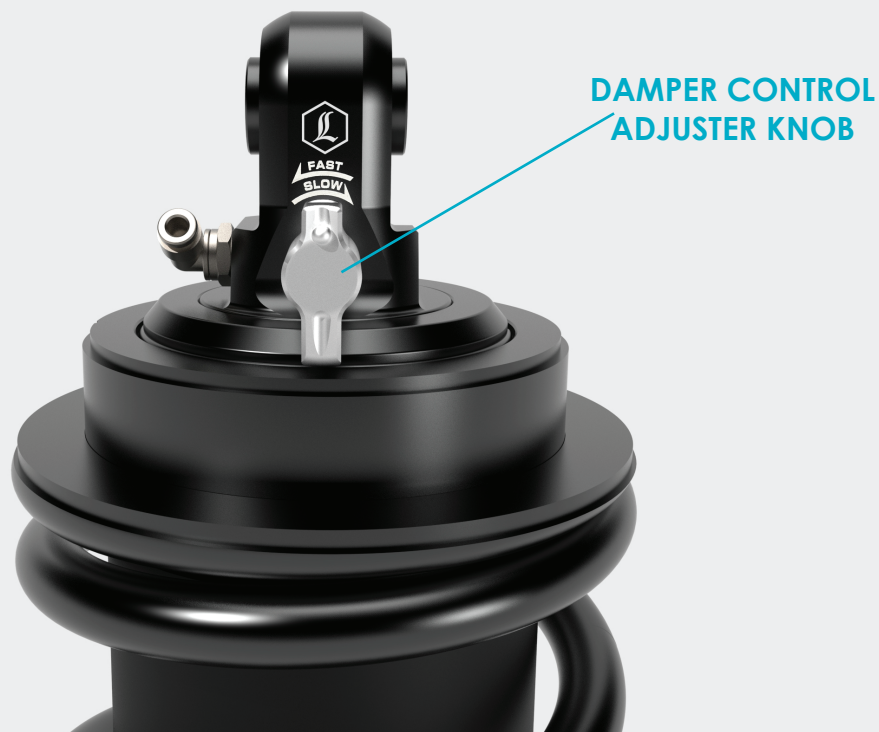
NOTE: Front and rear settings may differ due to air pressure settings and load conditions.

Tips for Fine-Tuning:

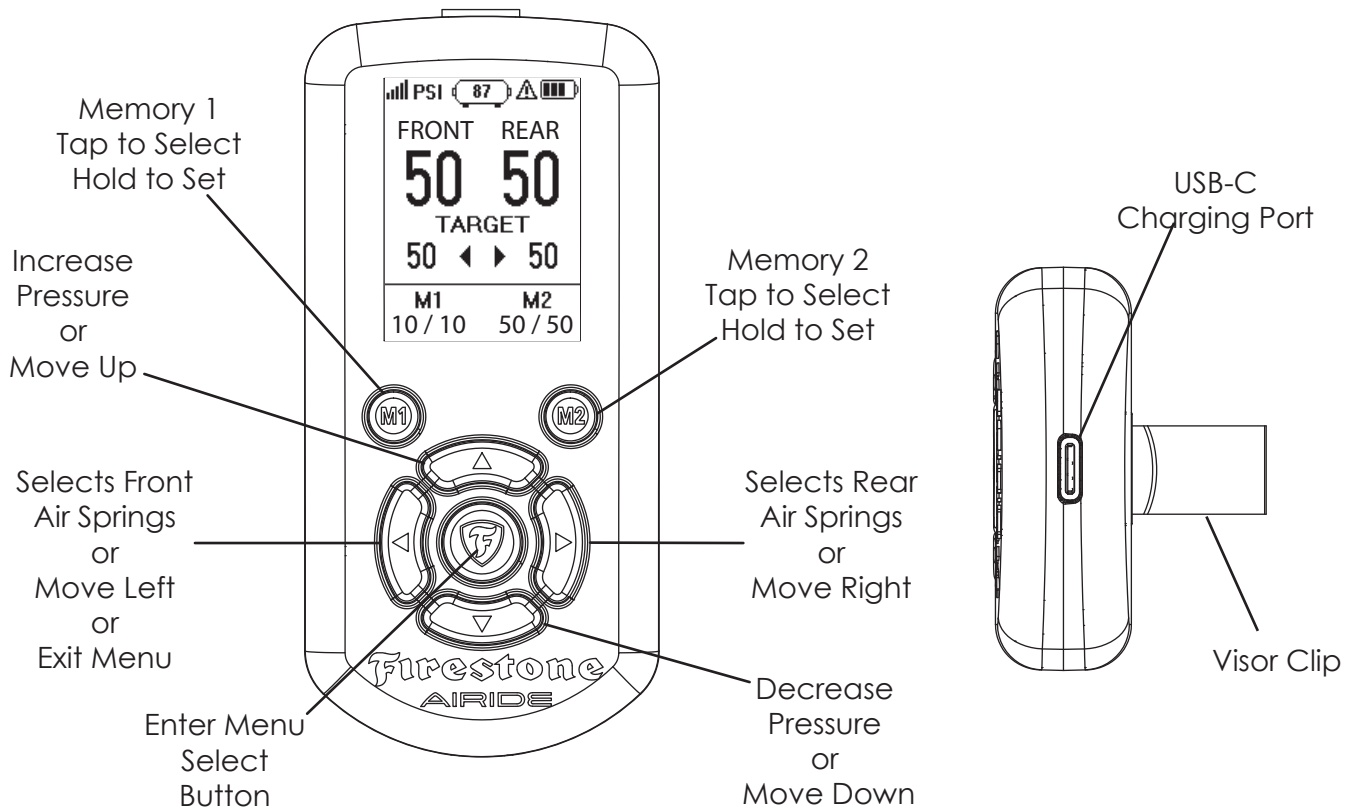
When increasing air pressures for heavy loads, slow down the damping by turning the adjuster clockwise to provide more stability.

When air pressures are decreased, speed up the damping by turning the adjuster counterclockwise to offer a more comfortable ride.

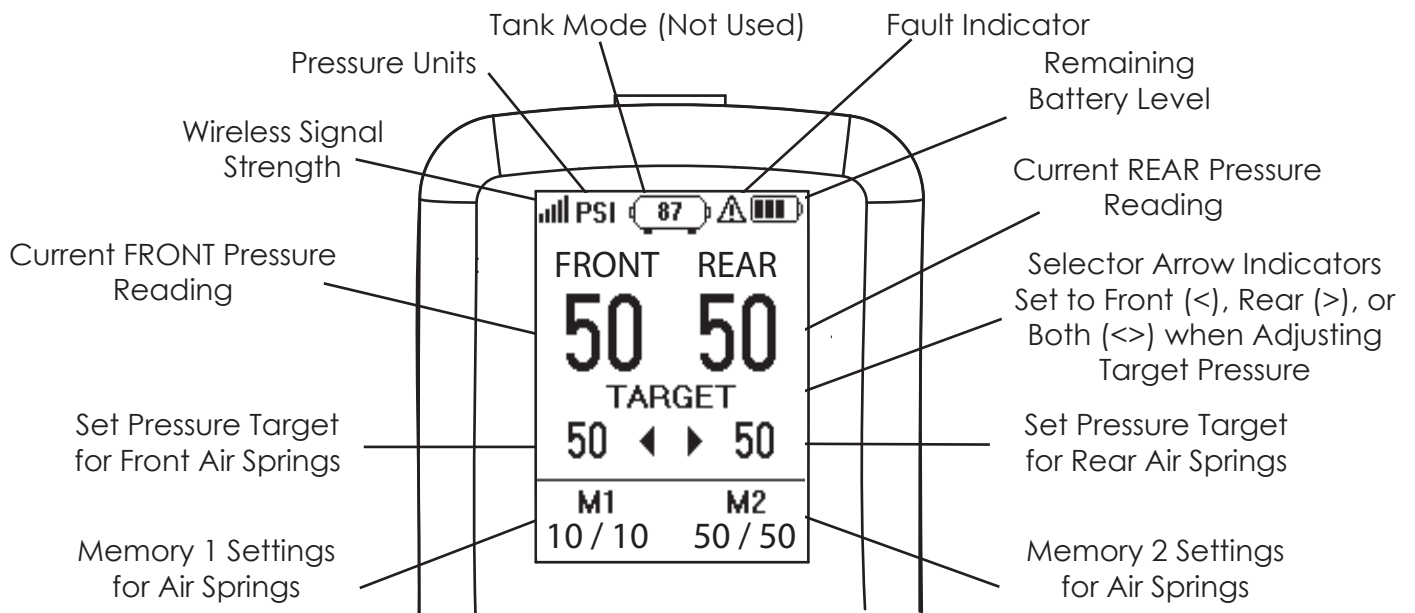
If the suspension feels bouncy or oscillates, turn the adjuster clockwise to slow down the damping. If the suspension feels harsh or unresponsive, turn the adjuster counterclockwise to speed up the damping.



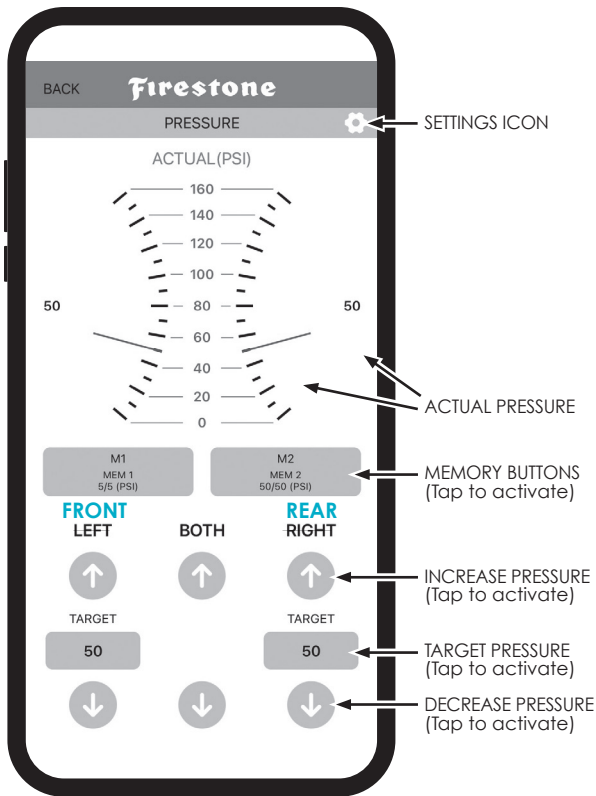
FUNCTIONS OF REMOTE BUTTONS



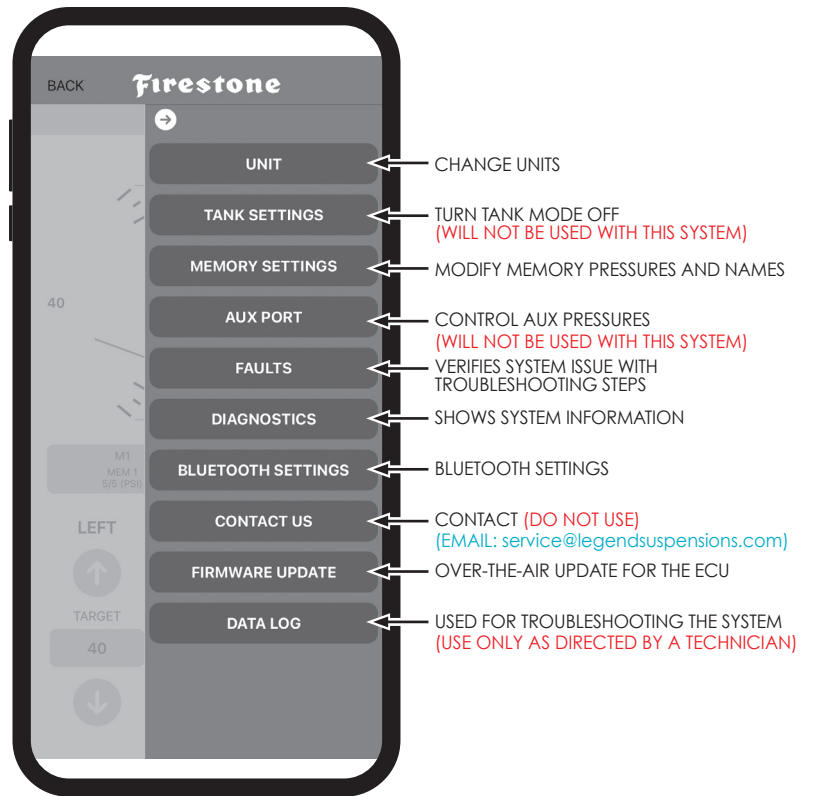
HOME SCREEN LAYOUT



MAIN SCREEN



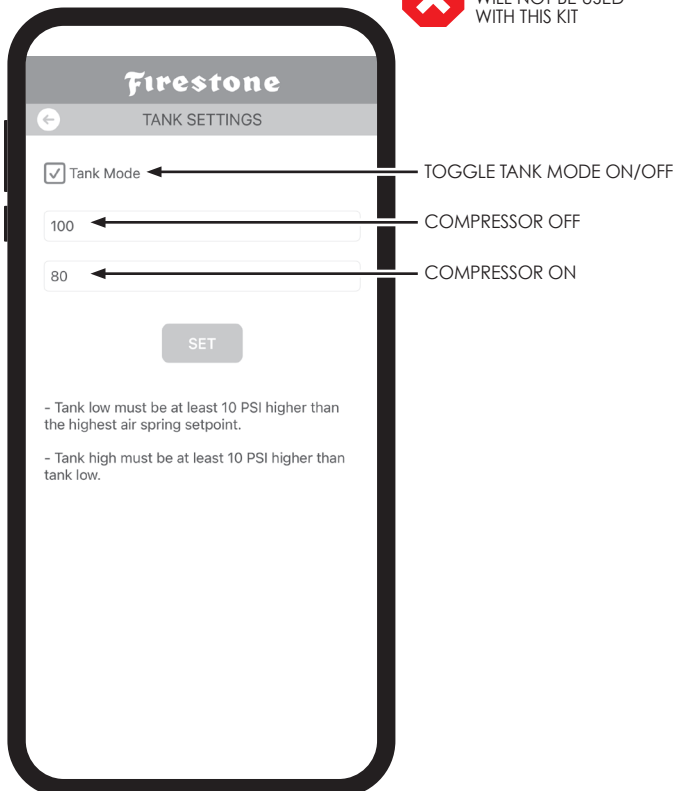
SETTINGS



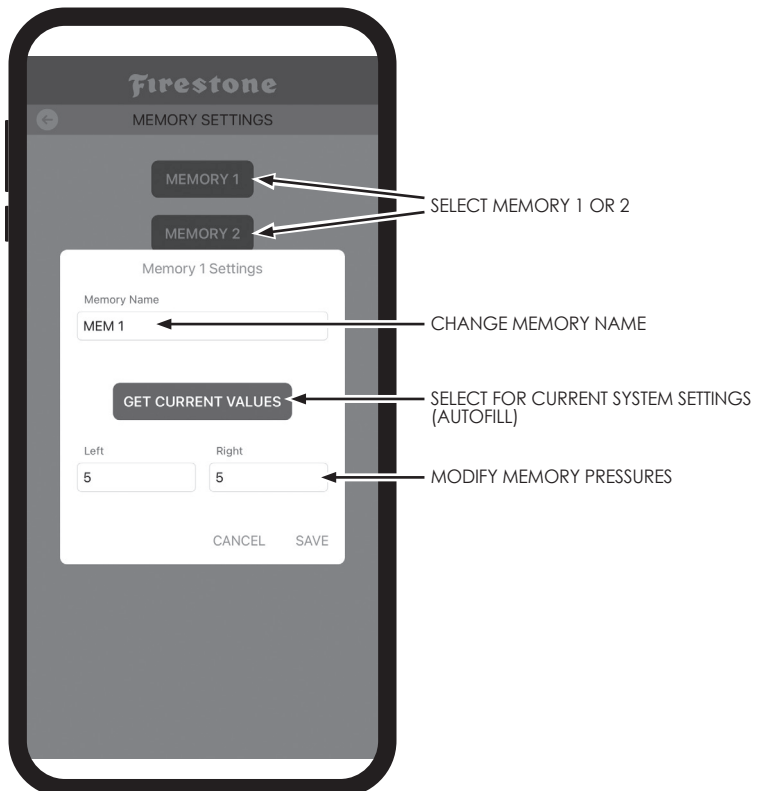
TANK SETTINGS



TANK MODE WILL NOT BE USED WITH THIS KIT



MEMORY SETTINGS

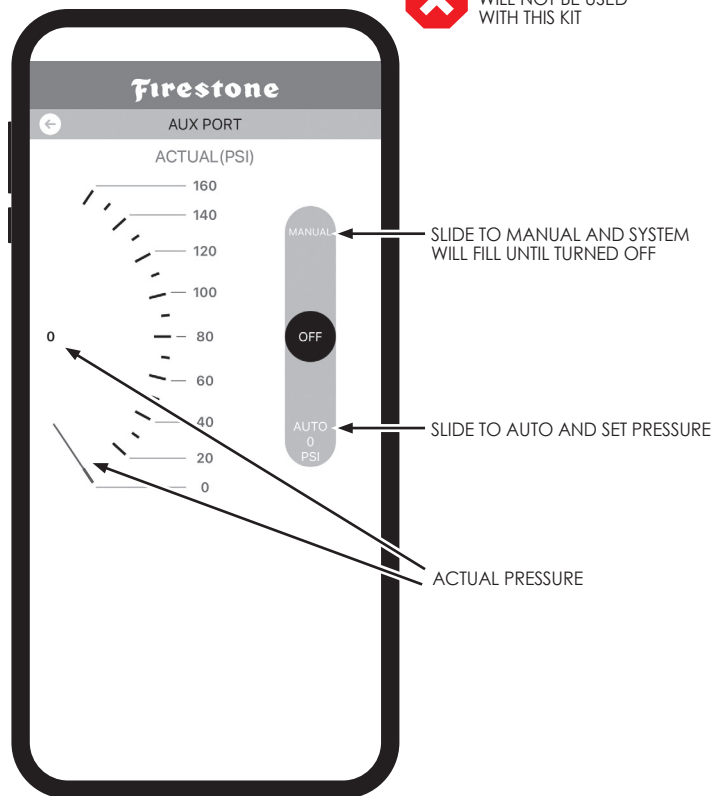


USING THE AIR COMMAND™ DUAL APP

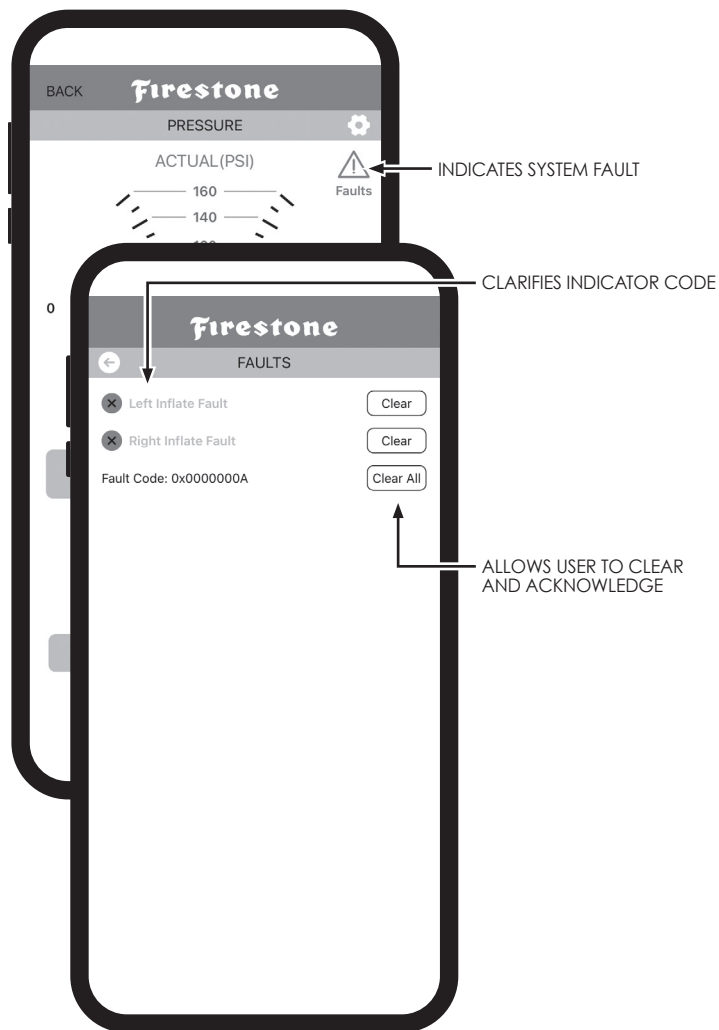
AUXILIARY



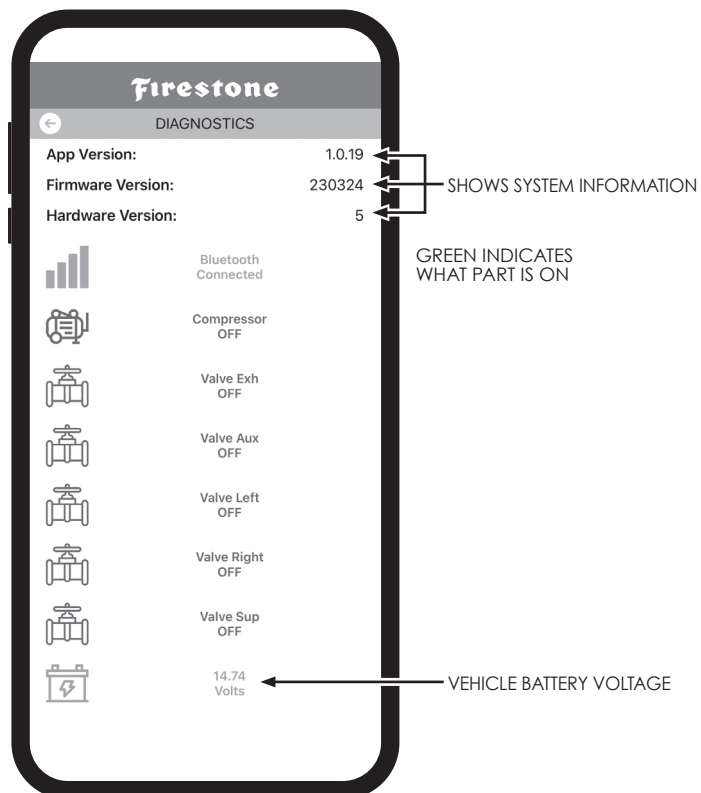
AUXILIARY MODE
WILL NOT BE USED
WITH THIS KIT

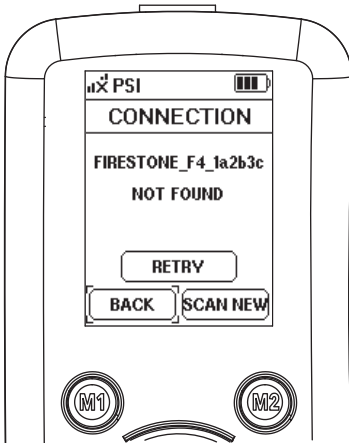


SYSTEM FAULT



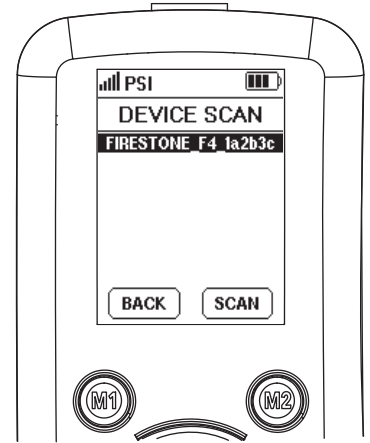
DIAGNOSTICS



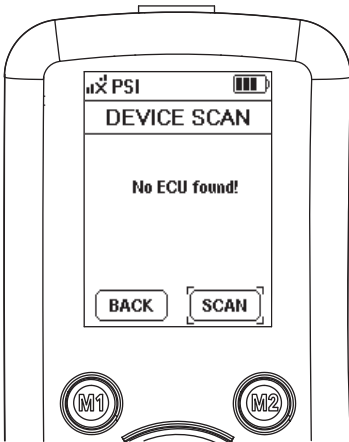
CONNECTING TO AN ECU**1** Initial Connection

Each remote is tested and paired with an ECU prior to shipping to make sure it functions correctly. Expect to see that an ECU is not found when first turning on the remote.

Move to and enter the 'Scan New' function to find your ECU.

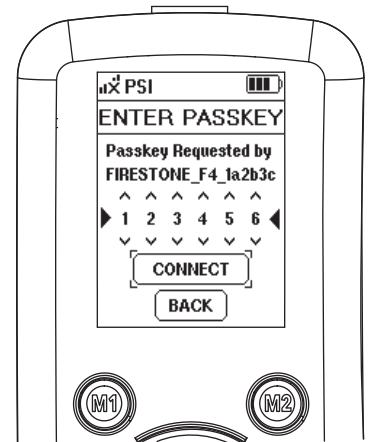
2 Device Scan

This page shows all ECUs found when a new scan is complete. To make initial startup easier, only have one ECU powered on at a time. The first ECU found will automatically be selected and highlighted at the top of the screen. Press the F-shield Button to connect to that ECU.

3 Device Scan Continued

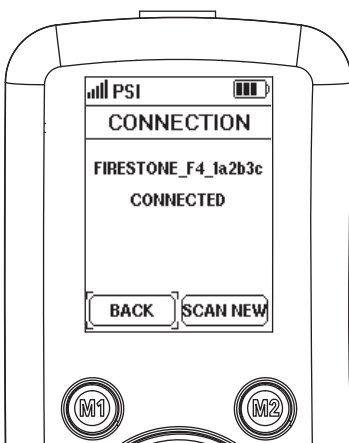
If no ECU is found, none will be selectable to connect to. If that is the case, please make sure power is getting to the ECU.

If the ECU has a green LED flashing the power is on, but no connection has been made. Once connected the LED should stop flashing but stay green.

4 Enter Passkey

The connection process requires a Passkey to pair with the ECU. The default Passkey is 123456.

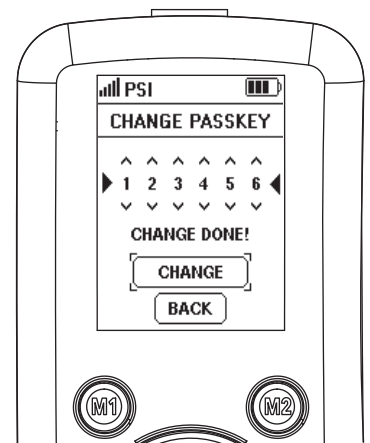
If the ECU has been connected to a phone app double check that the Passkey is the same as on the app. The remote will ask for a different Passkey if incorrect. Once successful, the remote will return to the home screen.

5 Connection

Shows if the remote is connected to the system.

*Not Found is usually caused by the system not having power.

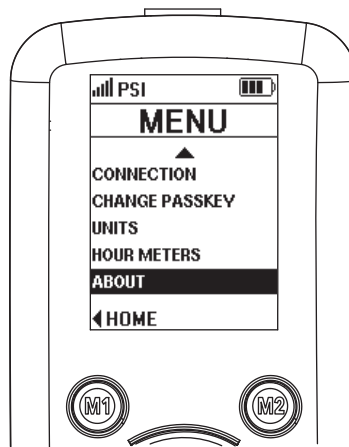
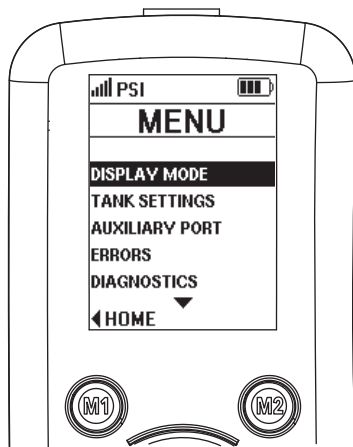
*Not Connected is usually caused by an incorrect Passkey. It has found the unit, but cannot connect.

6 Change Passkey

It is possible to change the remote passkey in the menu settings shown on the next page.

*Remember, the default passkey is 123456.

MENU SCREEN

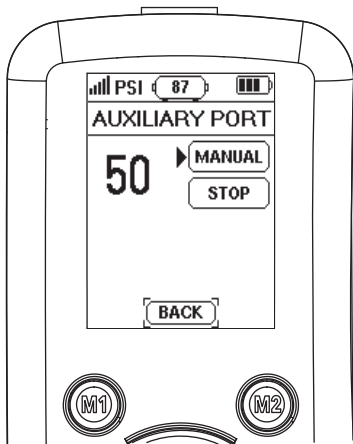


Menu

Pressing the center F-Shield Button provides access to the remote menu. All additional settings are available here.

Use the Up ▲ and Down ▼ Arrow Buttons to navigate the menu. Press the Left ◀ Arrow to exit to the Home Screen.

ADDITIONAL FEATURES



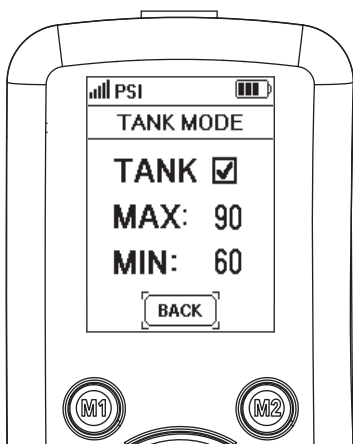
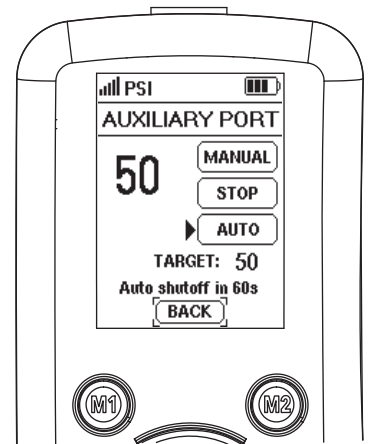
Auxiliary Port



AUXILIARY MODE
WILL NOT BE USED
WITH THIS KIT

Manual Mode, when selected, will run the compressor until the user presses the stop button. Measured pressure is shown on the left.

Automatic Mode is only available when Tank Mode is not active. Set desired target pressure and compressor will run until pressure is met or it has ran for 60 seconds. It can be ran multiple times if needed.



Tank Mode



TANK MODE
WILL NOT BE USED
WITH THIS KIT

Check when a tank is connected to the air spring system.

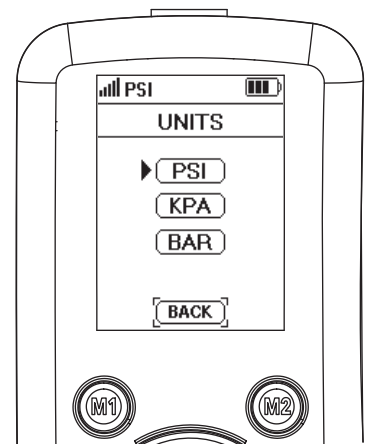
Minimum pressure must be greater than pressure in the air springs.

Maximum pressure can be set at most 40 PSI greater than minimum pressure.

Units

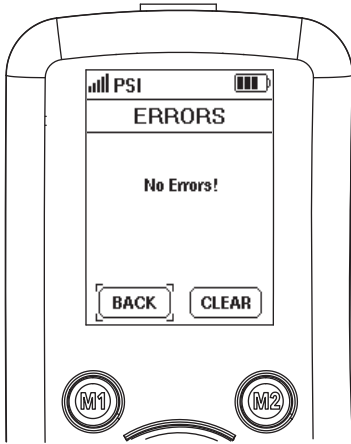
Select pressure unit of measure.

PSI - Imperial
KPA - Metric (SI)
BAR - Metric



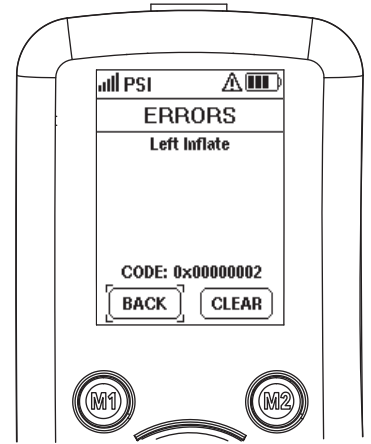
DATA ANALYTICS

Errors

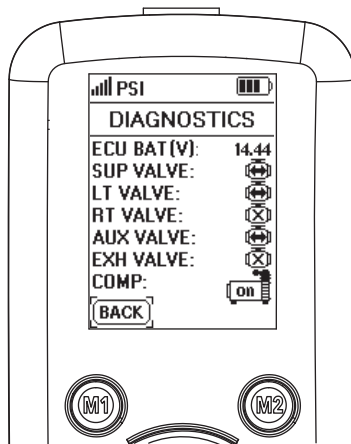


Error codes help diagnose issues with the physical system. These codes identify pressure leaks, inflation issues, wiring problems, etc. Refer to the troubleshooting guide in the manual provided in the Air Command Kit for working through initial common issues.

Once the issue is resolved make sure to clear the errors. This will also reset (remove) the error indicator from the top right of the screen and allow the system to operate normally.



If these codes or system issues persist, please reach out to:
service@legendsuspensions.com

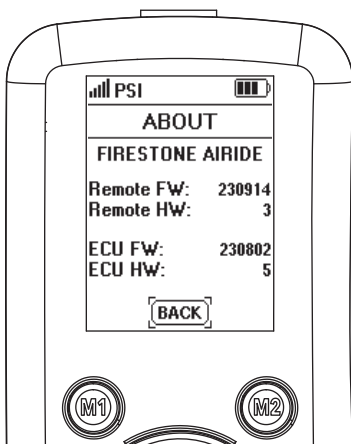
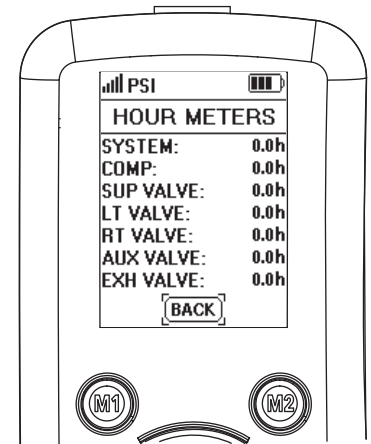


Diagnostics

This page shows current operation of all air valves and compressor states (on or off) and the battery voltage coming into the ECU.

Hour Meters

This page shows how long the ECU, compressor, and air valves have operated since the system was installed.

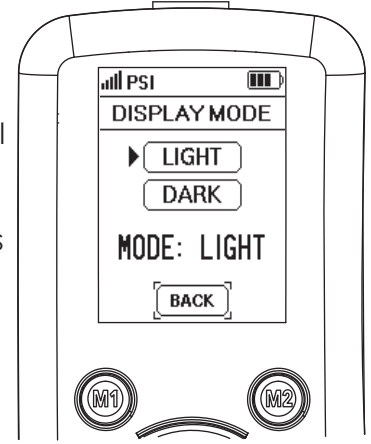


About

This page provides the current Firmware and Hardware information for both the Remote and ECU.

Display Mode

The Air Command Dual Remote comes standard with Dark Mode activated. The user has the ability to change between more or less LEDs lit depending on preference and ambient conditions.



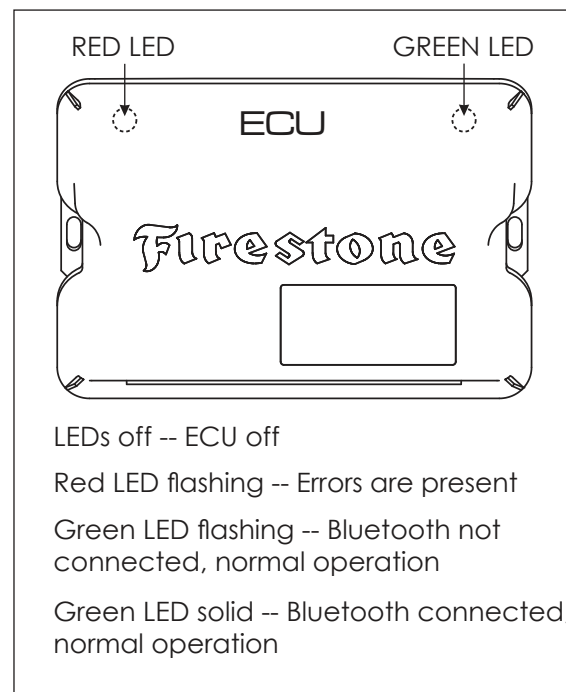
FACTORY RESET (TROUBLESHOOTING ONLY)

- Remove fuse from the 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 ten minutes.

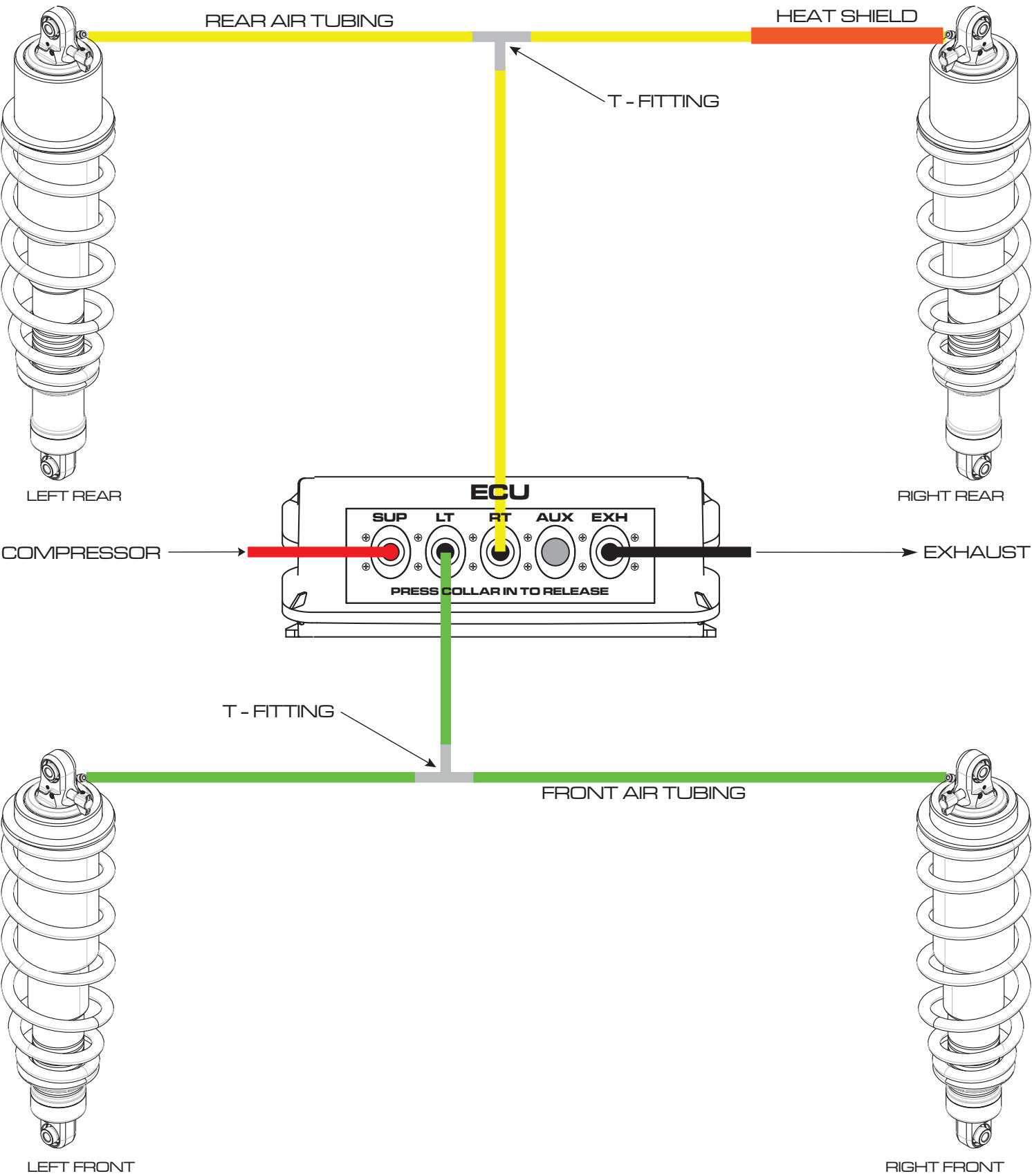
ECU INDICATOR LIGHTS (Inside Case)



PERFORM AN OVER THE AIR (OTA) 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 ten 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 approximate 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.



USING PUSH-TO-CONNECT FITTINGS

Your kit includes Push-to-Connect fittings to connect the Air Tubing to hardware. Use the instructions and tips below to aid in the installation and removal process.

DO

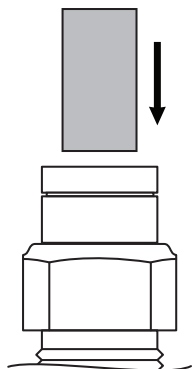
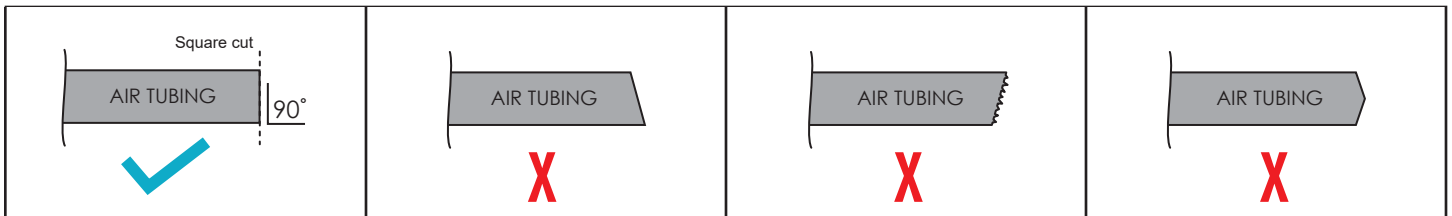
Use the supplied tube cutter to make sure the cuts are as square as possible.

DON'T

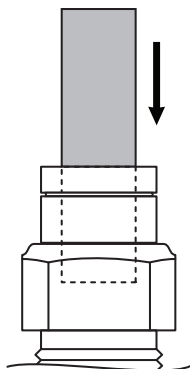
Fold, kink, or cut the Air Tubing at an angle.

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

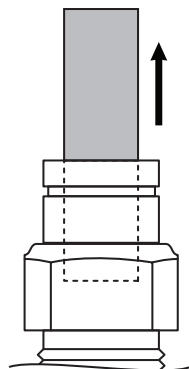
PROPER AND IMPROPER CUTS IN THE AIR TUBING



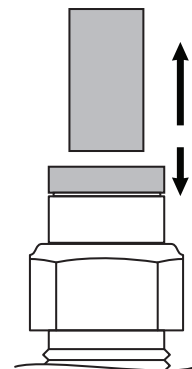
Insert end of Air Tubing into Air Fitting.



Push Air Tubing into Air Fitting as far as possible.



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



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

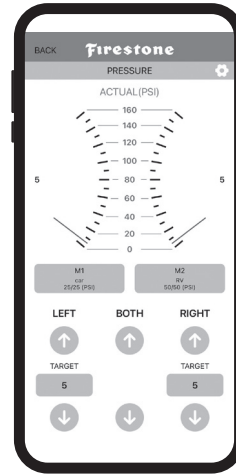
Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.



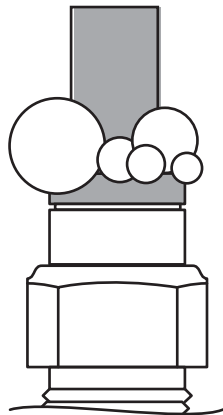
EXHAUST ALL AIR FROM THE SYSTEM PRIOR TO RELEASING AIR TUBING FROM AIR FITTINGS.



Use the Air Command™Dual App or Dual Remote to deflate the Air Springs to 5 PSI.

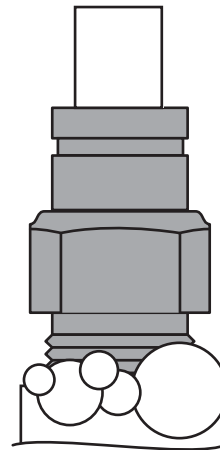


LEAK AT AIR TUBING AND AIR FITTING



Release Air Tubing and Review Proper Cuts and Procedures on Page 10.

LEAK AT BASE OF AIR FITTING



Tighten Air Fitting One Turn or Until Leak Stops.

STILL HAVE A LEAK?

If the leak persists, or if there is an issue with a leaking part, please email us photos to help us better diagnose and understand any problems you may be experiencing.

NOTES