REVO

AIR ASSISTED COIL TECHNOLOGY

AⅡTS

USER'S MANUAL

LEGEND SUSPENSIONS

⚠ 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.

10 PSI - **100 PSI**

MINIMUM PRESSURE   MAXIMUM PRESSURE (LOADED)

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.

1. 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.

2. 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.
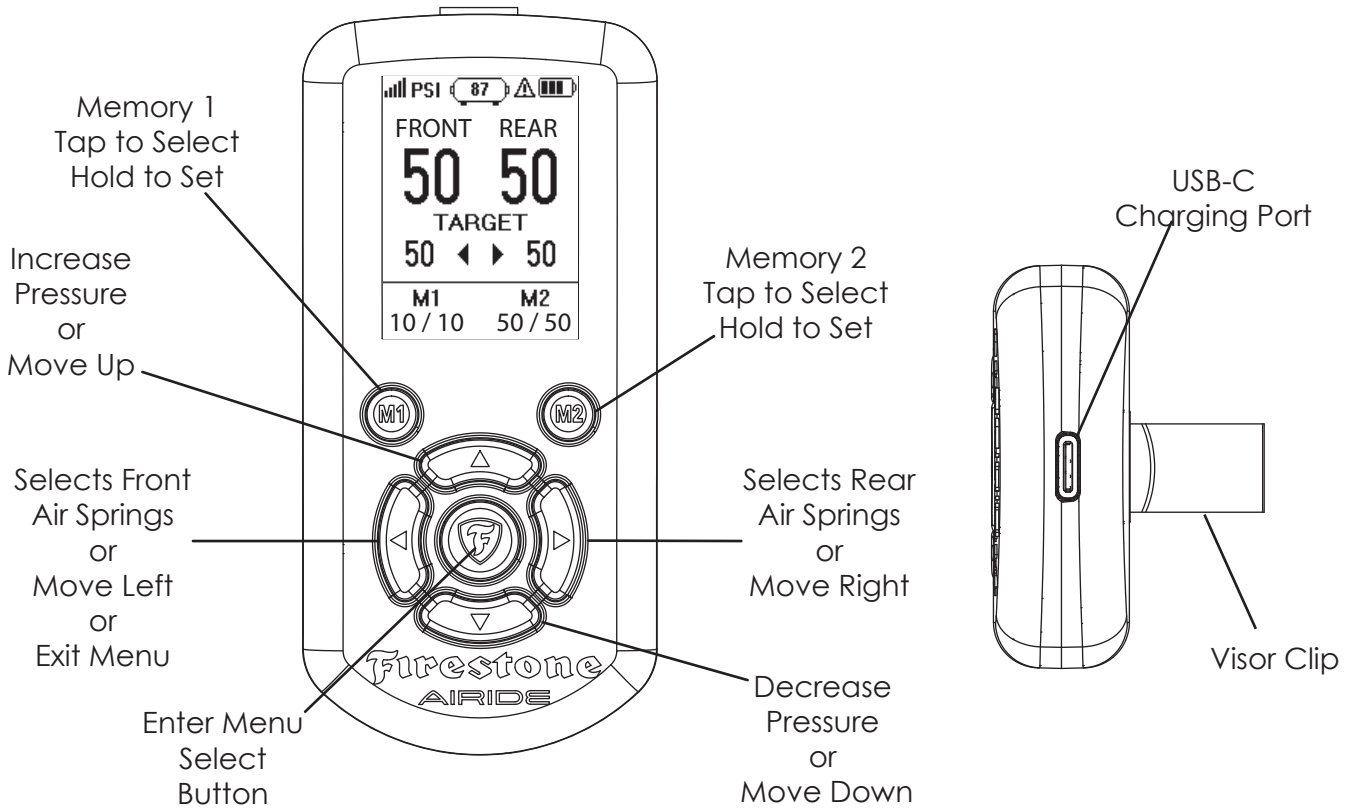
When air pressures are decreased, speed up the damping by turning the adjuster counter clockwise to offer a more comfortable ride.

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.
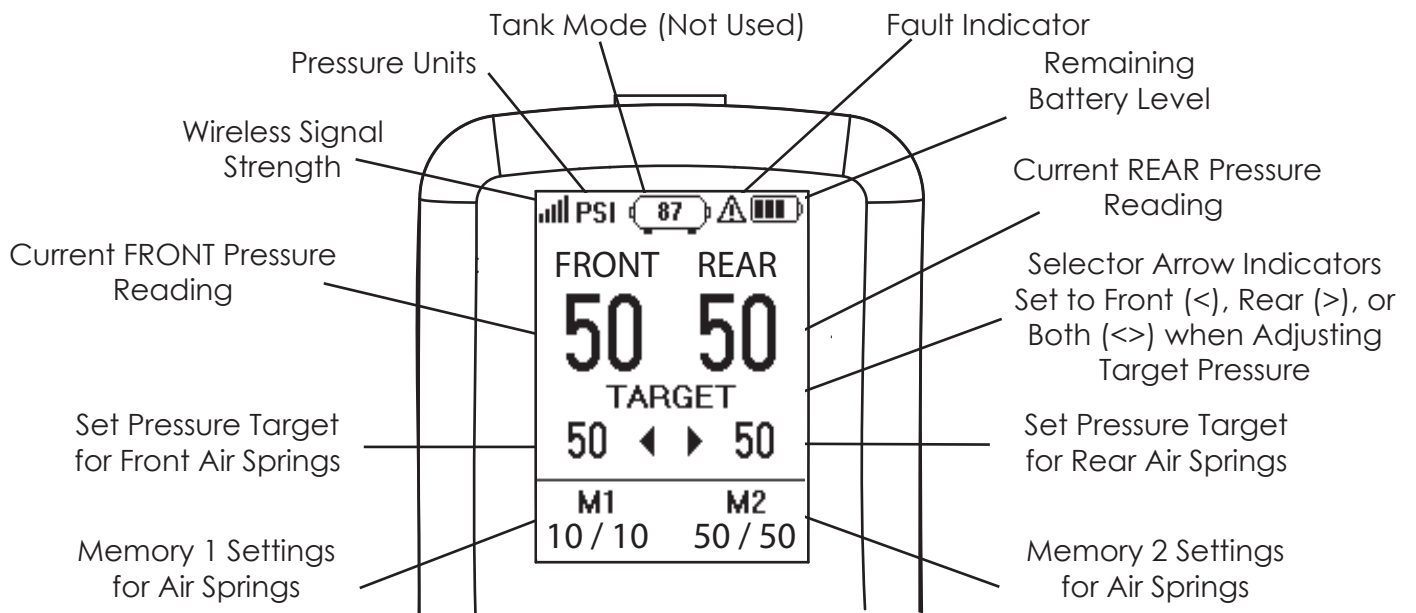
DAMPER CONTROL ADJUSTER KNOB

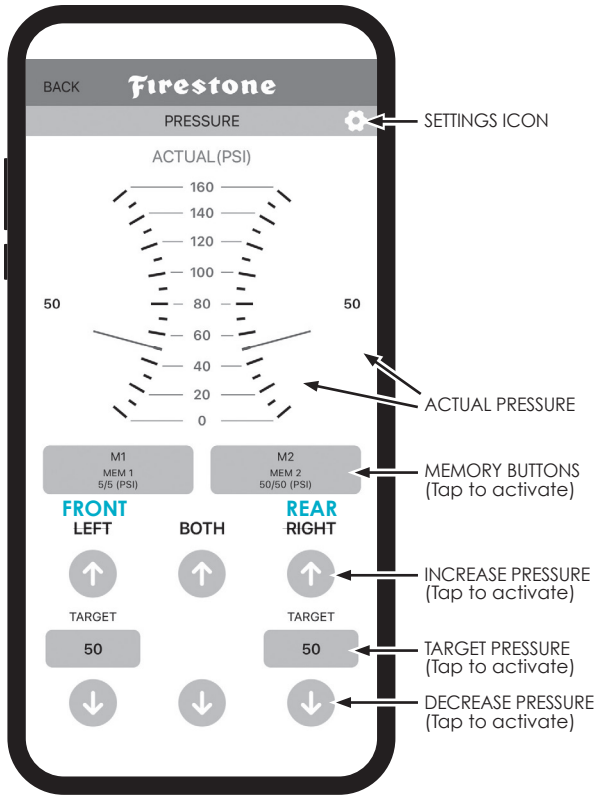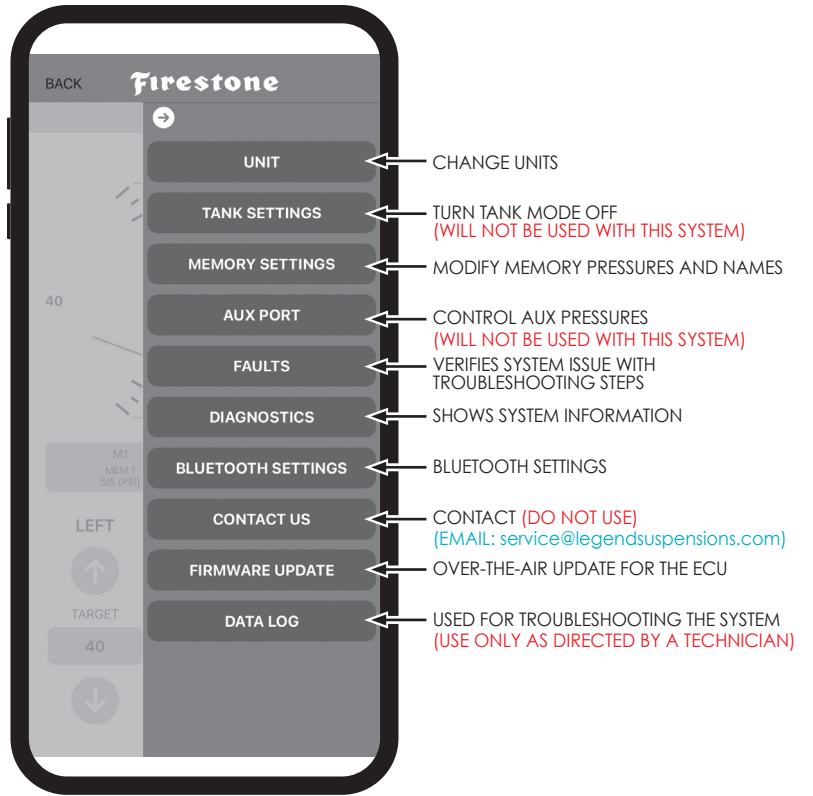## FUNCTIONS OF REMOTE BUTTONS

Memory 1
Tap to Select
Hold to Set

Increase
Pressure
or
Move Up

Selects Front
Air Springs
or
Move Left
or
Exit Menu

Enter Menu
Select
Button

Memory 2
Tap to Select
Hold to Set

Selects Rear
Air Springs
or
Move Right

Decrease
Pressure
or
Move Down

USB-C
Charging Port

Visor Clip

FRONT   REAR

50   50

TARGET

50 ◀ ▶ 50

M1   M2
10 / 10   50 / 50

HOME SCREEN LAYOUT

Tank Mode (Not Used)

Pressure Units

Wireless Signal
Strength

Current FRONT Pressure
Reading

Set Pressure Target
for Front Air Springs

Memory 1 Settings
for Air Springs

Fault Indicator

Remaining
Battery Level

Current REAR Pressure
Reading

Selector Arrow Indicators
Set to Front (<), Rear (>), or
Both (<>) when Adjusting
Target Pressure

Set Pressure Target
for Rear Air Springs

Memory 2 Settings
for Air Springs

FRONT   REAR

50   50

TARGET

50 ◀ ▶ 50

M1   M2
10 / 10   50 / 50

MAIN SCREEN

BACK **Firestone**

PRESSURE ⚙ ← SETTINGS ICON

ACTUAL (PSI)

160
140
120
100
50 80 50
60
40
20
0

← ACTUAL PRESSURE

| M1 MEM 1 5/5 (PSI) | M2 MEM 2 50/50 (PSI) | ← MEMORY BUTTONS (Tap to activate) |

FRONT **REAR**
LEFT BOTH RIGHT

↑ ↑ ↑ ← INCREASE PRESSURE (Tap to activate)

TARGET TARGET

50 50 ← TARGET PRESSURE (Tap to activate)

↓ ↓ ↓ ← DECREASE PRESSURE (Tap to activate)

SETTINGS

BACK **Firestone**

→

UNIT ← CHANGE UNITS

TANK SETTINGS ← TURN TANK MODE OFF (WILL NOT BE USED WITH THIS SYSTEM)

MEMORY SETTINGS ← MODIFY MEMORY PRESSURES AND NAMES

AUX PORT ← CONTROL AUX PRESSURES (WILL NOT BE USED WITH THIS SYSTEM)

FAULTS ← VERIFIES SYSTEM ISSUE WITH TROUBLESHOOTING STEPS

DIAGNOSTICS ← SHOWS SYSTEM INFORMATION

BLUETOOTH SETTINGS ← BLUETOOTH SETTINGS

CONTACT US ← CONTACT (DO NOT USE) (EMAIL: service@legendsuspensions.com)

FIRMWARE UPDATE ← OVER-THE-AIR UPDATE FOR THE ECU

DATA LOG ← USED FOR TROUBLESHOOTING THE SYSTEM (USE ONLY AS DIRECTED BY A TECHNICIAN)

40

M1 MEM 1 5/5 (PSI)

LEFT

↑

TARGET

40

↓

TANK SETTINGS

❌ TANK MODE WILL NOT BE USED WITH THIS KIT

Firestone

← TANK SETTINGS

☑ Tank Mode ← TOGGLE TANK MODE ON/OFF

100 ← COMPRESSOR OFF

80 ← COMPRESSOR ON

SET

- Tank low must be at least 10 PSI higher than the highest air spring setpoint.

- Tank high must be at least 10 PSI higher than tank low.

MEMORY SETTINGS

Firestone

← MEMORY SETTINGS

MEMORY 1
MEMORY 2 ← SELECT MEMORY 1 OR 2

Memory 1 Settings

Memory Name

MEM 1 ← CHANGE MEMORY NAME

GET CURRENT VALUES ← SELECT FOR CURRENT SYSTEM SETTINGS (AUTOFILL)

Left Right

5 5 ← MODIFY MEMORY PRESSURES

CANCEL SAVE

AUXILIARY

❌ AUXILIARY MODE WILL NOT BE USED WITH THIS KIT

Firestone

AUX PORT

ACTUAL (PSI)

160
140
120
100
80
60
40
20
0

0

MANUAL

OFF

AUTO
0
PSI

◄ SLIDE TO MANUAL AND SYSTEM WILL FILL UNTIL TURNED OFF

◄ SLIDE TO AUTO AND SET PRESSURE

ACTUAL PRESSURE

DIAGNOSTICS

Firestone

DIAGNOSTICS

App Version:	1.0.19
Firmware Version:	230324
Hardware Version:	5

SHOWS SYSTEM INFORMATION

GREEN INDICATES WHAT PART IS ON

Bluetooth
Connected

Compressor
OFF

Valve Exh
OFF

Valve Aux
OFF

Valve Left
OFF

Valve Right
OFF

Valve Sup
OFF

14.74
Volts

VEHICLE BATTERY VOLTAGE

SYSTEM FAULT

BACK **Firestone**

PRESSURE

ACTUAL (PSI)

160
140

0

⚠ Faults

INDICATES SYSTEM FAULT

CLARIFIES INDICATOR CODE

Firestone

FAULTS

❌ Left Inflate Fault   [Clear]

❌ Right Inflate Fault   [Clear]

Fault Code: 0x0000000A   [Clear All]

ALLOWS USER TO CLEAR AND ACKNOWLEDGE

CONNECTING TO AN ECU

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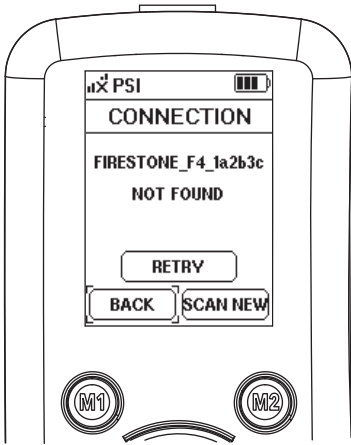
Each remote is tested and paired with an ECU prior to shipping to make sure it functions correctly. Expect to see that an ECU is not found when first turning on the remote.

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

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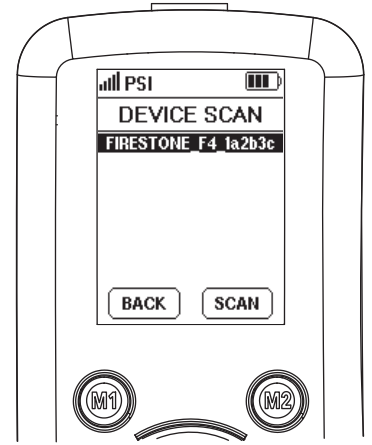
This page shows all ECUs found when a new scan is complete. To make initial startup easier, only have one ECU powered on at a time. The first ECU found will automatically be selected and highlighted at the top of the screen. Press the F-sheild Button to connect to that ECU.

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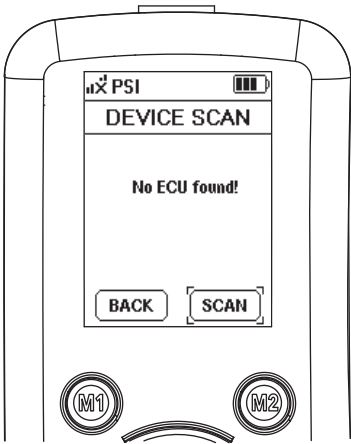
If no ECU is found, none will be selectable to connect to. If that is the case, please make sure power is getting to the ECU.

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

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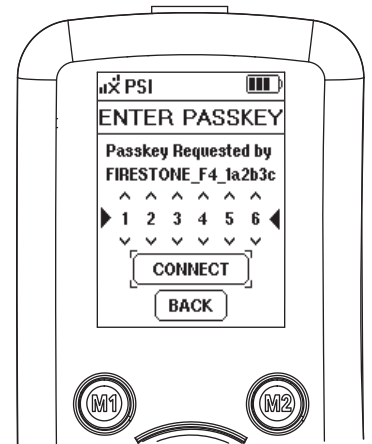
The connection process requires a Passkey to pair with the ECU. The default Passkey is 123456.

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
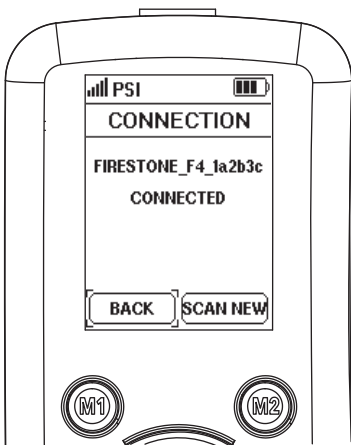
Shows if the remote is connected to the system.

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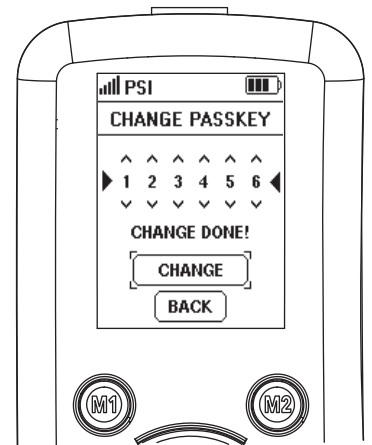
It is possible to change the remote passkey in the menu settings shown on the next page.

*Remember, the default passkey is 123456.

MENU SCREEN
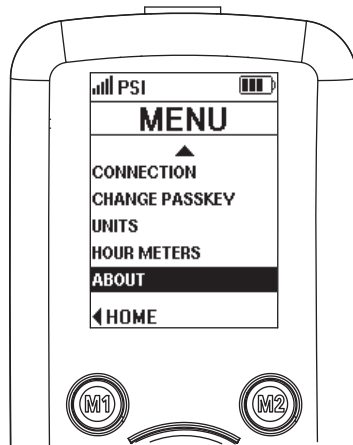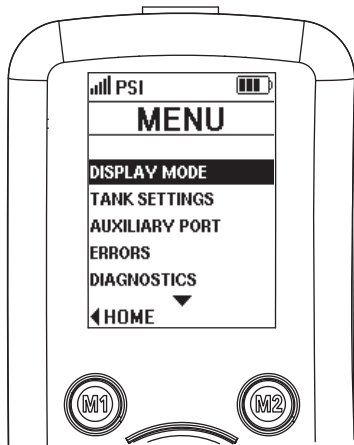
Menu

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
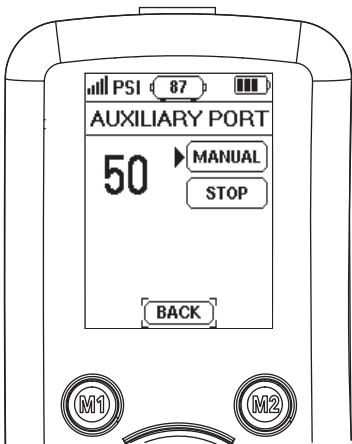
Auxiliary Port ❌ AUXILIARY MODE WILL NOT BE USED WITH THIS KIT

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.
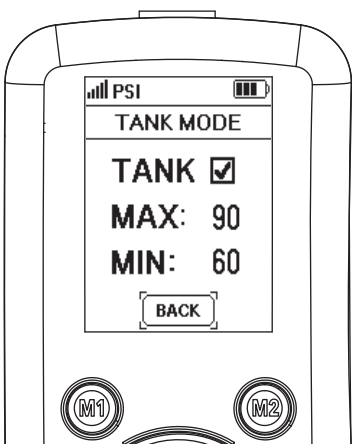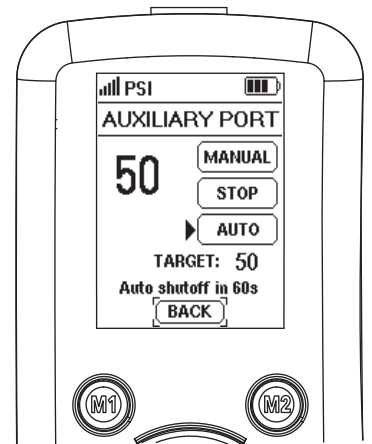
Tank Mode ❌ TANK MODE WILL NOT BE USED WITH THIS KIT

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
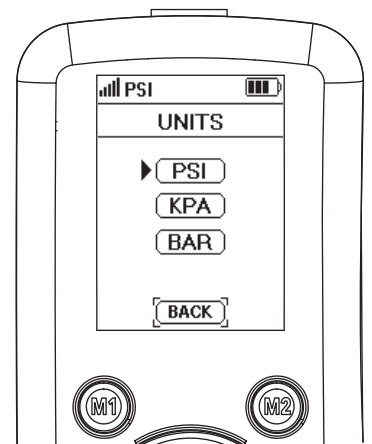
DATA ANALYTICS

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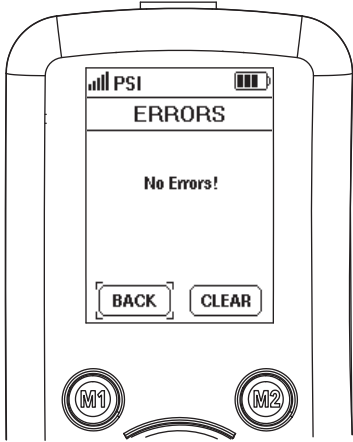
Error codes help diagnose issues with the physical system. These codes identify pressure leaks, inflation issues, wiring problems, etc. Refer to the troubleshooting guide in the manual provided in the Air Command Kit for working through initial common issues.

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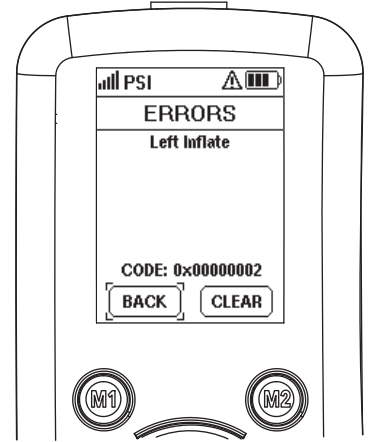
If these codes or system issues persist, please reach out to:
service@legendsuspensions.com
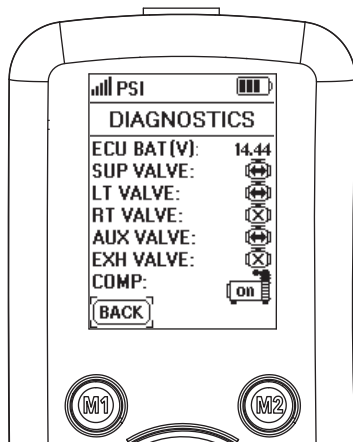
Diagnostics

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.
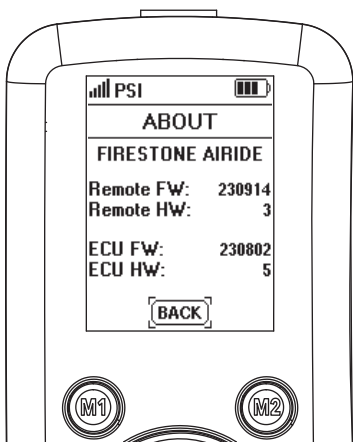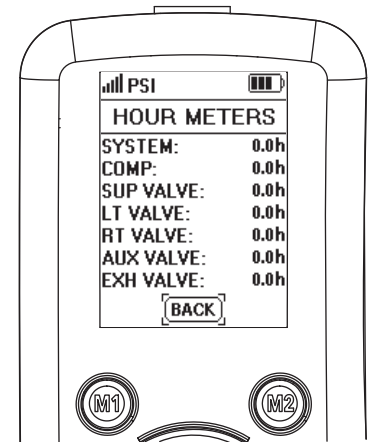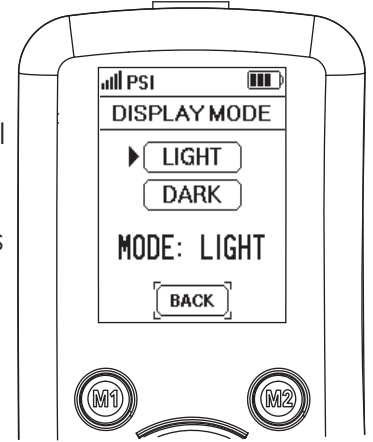
About

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.
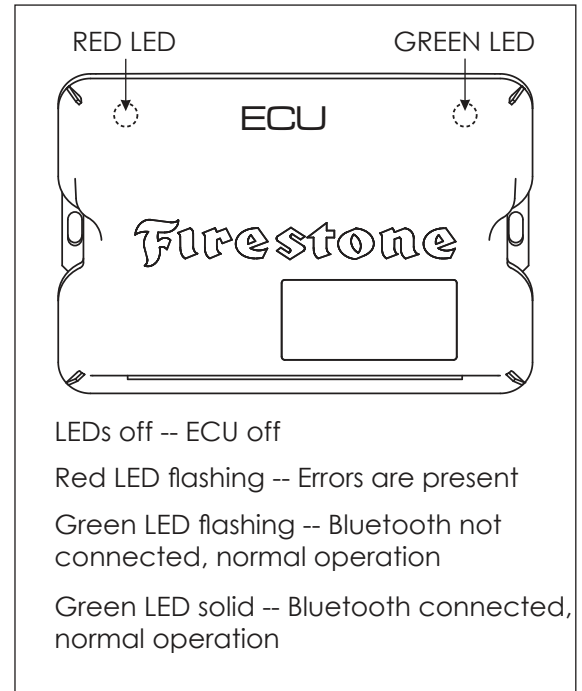
FACTORY RESET
(TROUBLESHOOTING ONLY)

- 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.
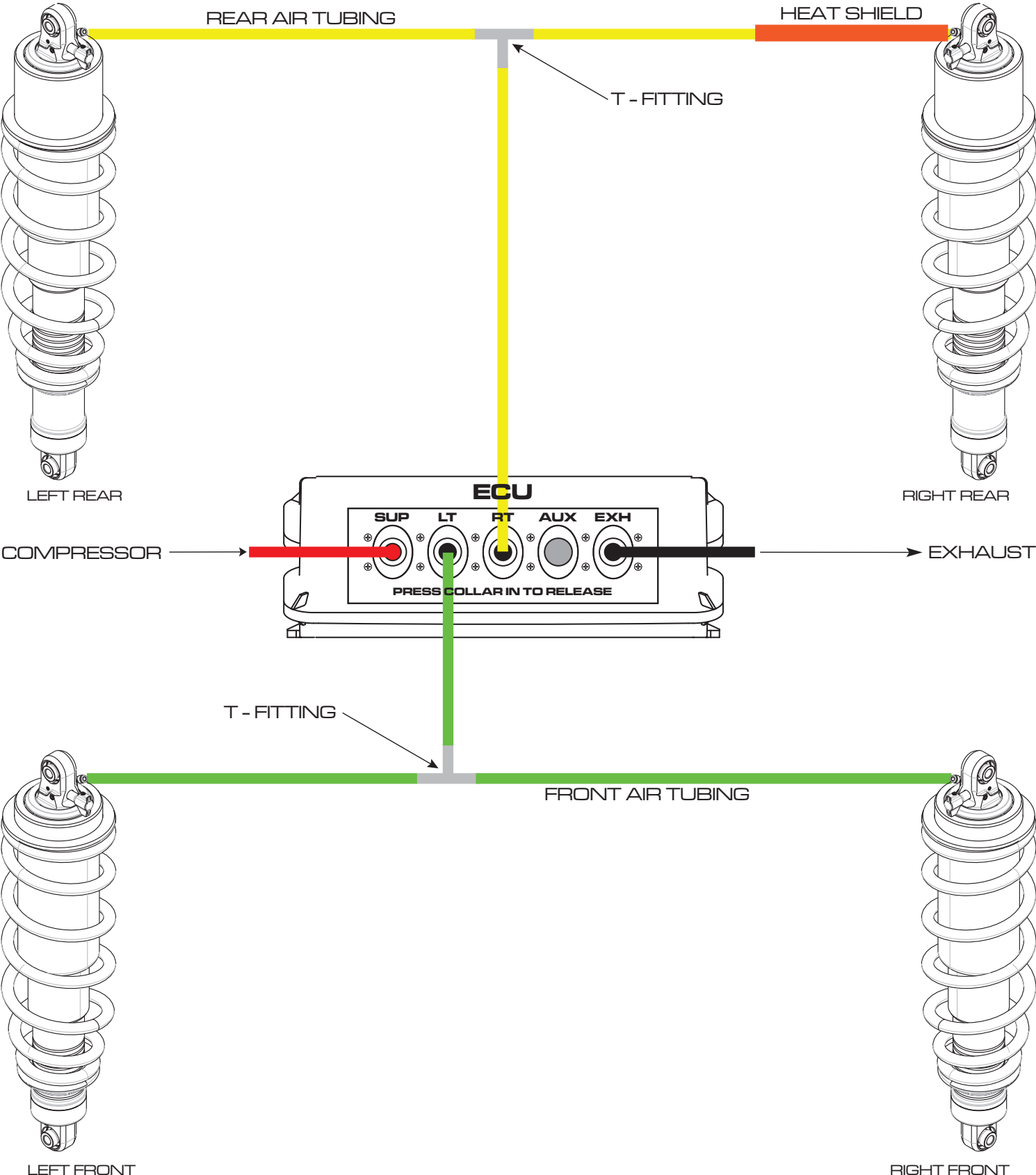
ECU INDICATOR LIGHTS (Inside Case)

LEDs off -- ECU off

Red LED flashing -- Errors are present

Green LED flashing -- Bluetooth not connected, normal operation

Green LED solid -- Bluetooth connected, normal operation

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.

REAR AIR TUBING

HEAT SHIELD

T - FITTING

LEFT REAR

RIGHT REAR

ECU

SUP   LT   RT   AUX   EXH

COMPRESSOR

EXHAUST

PRESS COLLAR IN TO RELEASE

T - FITTING

FRONT AIR TUBING

LEFT FRONT

RIGHT FRONT

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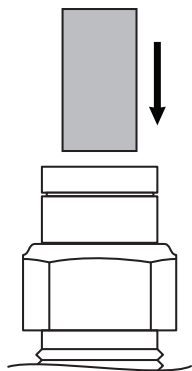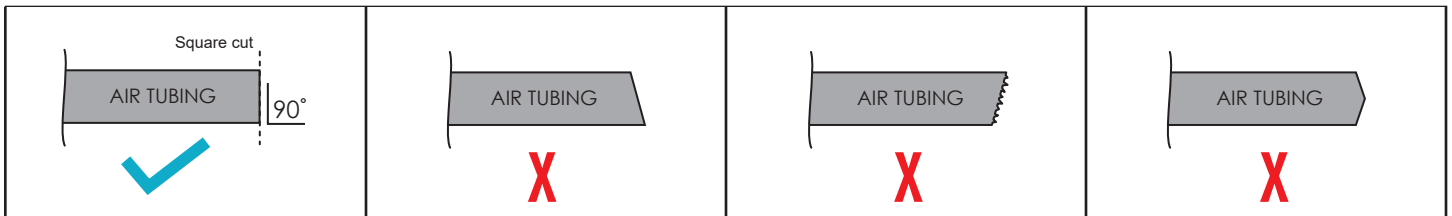
DO
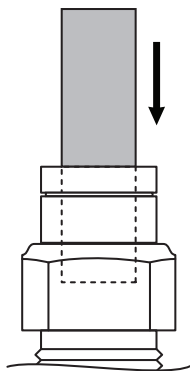Use the supplied tube cutter to make sure the cuts are as square as possible.

DON'T
Fold, kink, or cut the Air Tubing at an angle.

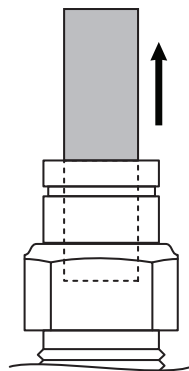Use pliers, scissors, saws, snips, or side cutters.
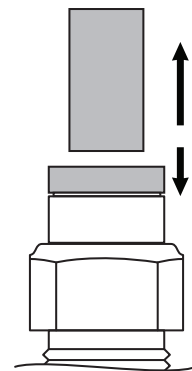
PROPER AND IMPROPER CUTS IN THE AIR TUBING

Square cut
AIR TUBING 90°
✓

AIR TUBING
X

AIR TUBING
X

AIR TUBING
X

1. Insert end of Air Tubing into Air Fitting.

2. Push Air Tubing into Air Fitting as far as possible.

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

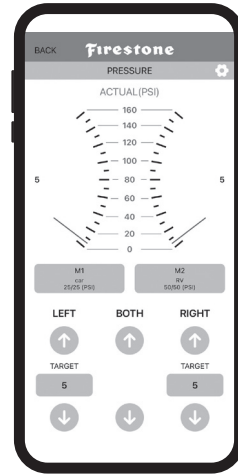**4.** To remove, push down collar and gently pull Air Tubing away.

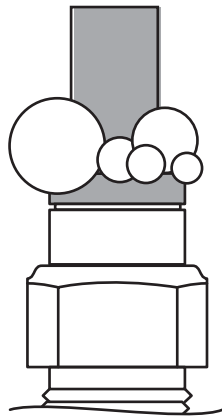Removal Tip: Use a 1/4", 5/16", or 6mm open-ended wrench to push the collar down.

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

5 PSI

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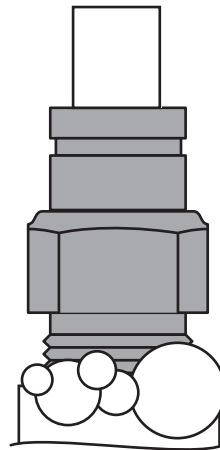

LEAK AT AIR TUBING AND AIR FITTING

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.