

Air Connect™



User Guide



Air Connect Compressor System



Watch the video

[Info on Table of Contents page](#)

Air Connect is offered in several versions:

- 44980EZ Pro EZ Single Path & 4400EZ Pro EZ Dual Path (EZ Mount Kits)
- 44100EZ Pro Tank Kit (EZ Mount + Tank Kit)
- 44780 Pro (No-Tank, No-EZ Mount Kit which includes controller, no compressor)

For maximum effectiveness and safety, please read these instructions completely before proceeding with installation.

Failure to read these instructions can result in an incorrect installation.



**Scan the QR Code
to learn more about
your warranty.**

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Video-enhanced installation guides

Visit airliftcompany.com/workshop/category/install-videos to access our installation video archive*.

Introduction

The purpose of this publication is to assist with the set up of the Air Connect™ air management system.

Air Lift Company reserves the right to make changes and improvements to its products and publications at any time. Contact Air Lift Company at **(800) 248-0892** or online at **www.airliftcompany.com** for the latest version of this user guide.

NOTATION EXPLANATION

Hazard notations appear in various locations in this publication. Information highlighted by one of these notations must be observed to help minimize risk of personal injury or possible improper installation, which may render the vehicle unsafe. Notes are used to help emphasize areas of procedural importance and provide helpful suggestions. The following definitions explain the use of these notations as they appear throughout this guide.

DANGER

INDICATES IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.

WARNING

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.

CAUTION

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN DAMAGE TO THE VEHICLE OR MINOR PERSONAL INJURY.

NOTE

Used to help emphasize areas of procedural importance and provide helpful suggestions.

TECH TIP

Used to provide helpful tips to ease the installation process.

Wireless Controller Features & Use

PLEASE READ - IMPORTANT PRODUCT INFORMATION

A wireless controller is included in the Air Connect Pro kits (P/N 44000EZ, 44100EZ, 44980EZ, 44780). It is not included in the app-only non-Pro kits (P/N 27100EZ, 27400, 27400EZ, 27980, 27980EZ) but is available as an additional accessory (P/N 73016).



Fig. 1

Single Path Wireless Controller Overview



Fig. 2

Dual Path Wireless Controller Overview



Fig. 3

Navigating the Menus

Press U1 + D1 together or U2 + D2 together to enter the system menus. While in the menus, use P1 to select a menu option and use P2 to go back. Figs. 2 & 3

Changing & Saving Presets

PRESET 1

Tap P1 once to display Preset 1. Double-tap to activate Preset 1. Press and hold to save current value(s) to Preset 1.

PRESET 2

Tap P2 once to display Preset 2. Double-tap to activate Preset 2. Press and hold to save current value(s) to Preset 2.

PRESET 3

Press P1 + P2 together to display Preset 3. Double-tap to activate Preset 3. Press and hold to save current value(s) to Preset 3.



NOTE

Changing presets on the display or app will take affect for both devices

Pairing a Wireless Controller or Mobile Device

The manifold will enter pairing mode for 3 minutes upon connecting the system to power. This may be done by unplugging the system's harness connector and plugging it back in or by pulling the fuse and reconnecting it. Pairing mode may also be enabled by cycling power to the ignition line 3 times consecutively in 10 seconds.

To pair a Wireless Controller, enable pairing mode on the manifold, navigate to the menus on the Wireless Controller and select the "Devices" submenu (Fig. 4). Select the manifold's serial number to pair the controller with the system.

To pair a mobile device, first download the Air Lift App. Open the app and find the manifold's serial number in the device list. Hit "Connect Now" to pair the mobile device to the system (Fig. 5).

Upon pairing a new wireless controller or mobile device, select the path mode that reflects the desired system operation. Figure 6 shows the wireless controller's "Path Mode" submenu.



NOTE

After pairing a mobile device, a popup to update system firmware may appear. Follow the on-screen prompts to update the system and the wireless controller's firmware. It is highly recommended to ensure the system's firmware is up to date before using the system.



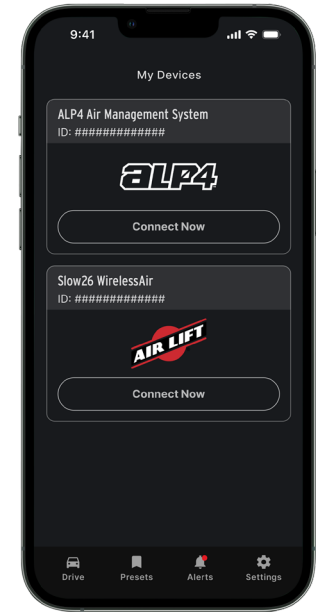
Wireless Controller Devices Menu

Fig. 4



Wireless Controller Path Mode Menu

Fig. 6



Air Lift App "My Devices"

Fig. 5

System Sleep & Wake Modes

The Air Connect system is always powered, but enters a low-power sleep mode after 5 minutes of inactivity. The system will wake up when movement is detected or when a previously connected device such as the Controller or Mobile App pairs with the system.

For non-tank kits, connecting the pink ignition wire on the harness to a 12v ignition source is optional. When connected, the system will wake up when the ignition is turned on.

The pink ignition wire is **NOT** optional on Air Connect Tank kits. Connection to a 12v ignition source is required for proper compressor function on Air Connect Tank kits.

Path Modes (Dual Path Variant Only)



CAUTION VERIFY THE SYSTEM HAS THE APPROPRIATE INSTALLATION SETUP PRIOR TO POWERING THE SYSTEM ON OR SELECTING A PATH MODE. FAILURE TO DO SO COULD RESULT IN UNEXPECTED FILLS OR EXHAUSTS.



NOTE Air Connect Dual Path can be ran in various modes, which are outlined below. To switch modes, enter the settings on the controller or App. and choose your desired path mode.

SINGLE PATH

Uses one common pressure setting to control both air ports simultaneously. In this mode, the system will attempt to constantly maintain the pressure setting on spring ports 1 and 2.

DUAL PATH

Uses two separate pressure settings to control each air port individually. In this mode, the system will attempt to constantly maintain each pressure setting on air ports 1 and 2, respectively.

SINGLE PATH + MANUAL AUX

Uses a pressure setting to control port 1 and allows for manual fills and deflates on port 2. Press and hold the increase pressure or decrease pressure button to perform fills and deflates. In this mode, the system will attempt to constantly maintain the pressure setting on port 1 only.

SINGLE PATH + TARGET AUX (APP ONLY)

Uses a pressure setting to control port 1 and allows for targeted fills and deflates on port 2. In this mode, the system will attempt to constantly maintain the pressure setting on port 1 only. Upon hitting "Run AUX", port 2 will fill/deflate to the pressure set by the user. This pressure will not be actively maintained by the system once achieved.



DANGER AUX PORT MAXIMUM ALLOWED PRESSURE IS 150 PSI/10.34BAR. ENSURE THAT ANY ACCESSORIES CONNECTED TO THE AUX PORT ARE PRESSURIZED WITHIN THEIR RECOMMENDED PRESSURE LIMITS TO MAINTAIN SAFE OPERATION.



CAUTION SOME COMPRESSORS MAY NOT SUPPORT THE MAXIMUM ALLOWED PRESSURE. BE SURE TO VERIFY THE COMPRESSOR'S MAX OPERATING PRESSURE BEFORE ATTEMPTING TO FILL TO HIGH PRESSURES TO PREVENT SYSTEM DAMAGE OR COMPRESSOR STALLS.

Air Spring Port Configurations FOR DUAL PATH MANIFOLD (PART NO. 72777)

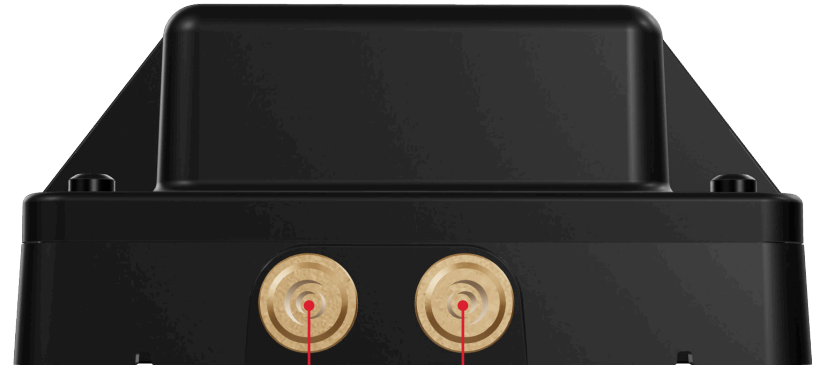


Fig. 7

Port Configurations	Air Spring Port 1	Air Spring Port 2
Dual Path Mode	L	R
Single Path Mode	L	R
Single + Manual AUX	L + R	AUX
Single + Target AUX	L + R	AUX

FOR SINGLE PATH MANIFOLD (PART NO. 72776)



Fig. 8

Port Configuration	Air Spring Port 2
Single Path Mode Only	L + R Control

Wireless Controller Path Modes

SINGLE PATH



Spring Port Pressure Setting

DUAL PATH



Left Spring Port Pressure Setting

Right Spring Port Pressure Setting

SINGLE + AUX MODE



Single Path Pressure Setting

AUX Port Current Pressure

System Settings



NOTE

Some settings may only be available via the Air Lift App. Download and pair the app to access the full list of system settings and features.

COMPRESSOR MODE/TANK MODE

Use Compressor Mode to drive a 16192 or 16060 compressor for filling the system. Switch to Tank Mode to drive an external valve for filling the system.

SERVICE MODE

When activated, all valve activity and outputs are disabled. This mode may be enabled/disabled via the app. This mode may also be disabled by cycling power to the ignition wire 3 times consecutively.

QUIET COMPRESSOR

With quiet compressor enabled, the system will wait until the vehicle is moving for at least 30 seconds before it will maintain an active preset.



NOTE

This setting is not available when in tank mode

MAXIMUM/MINIMUM PRESSURE

Choose the Air Lift kit that matches the installed system. Custom values for maximum and minimum pressure may be entered for systems that don't match.



WARNING

TO PREVENT DAMAGE TO THE SYSTEM, NEVER DEFLATE AN AIR SPRING BELOW 5 PSI/.34 BAR WITHOUT A JOUNCE BUMPER OR BUMP STOP. NEVER INFLATE BEYOND THE MANUFACTURER'S RECOMMENDED MAXIMUM PRESSURE.

UNITS

Toggle this setting to choose PSI or BAR as the system's units (Fig. 12).

PATH MODE (DUAL PATH SYSTEM ONLY)

Path mode allows you to choose between the various available path modes with your Dual Path system.

When changing the Path Mode, the system will prompt you with a note that reinstallation is required (Fig. 13), referencing that the air line connections may need to be changed depending on the setup and path mode being used.



Wireless Controller Units Menu Fig. 12



Wireless Controller Change Path Screen Fig. 13

App Controls

SINGLE PATH



Fig. 14

DUAL PATH

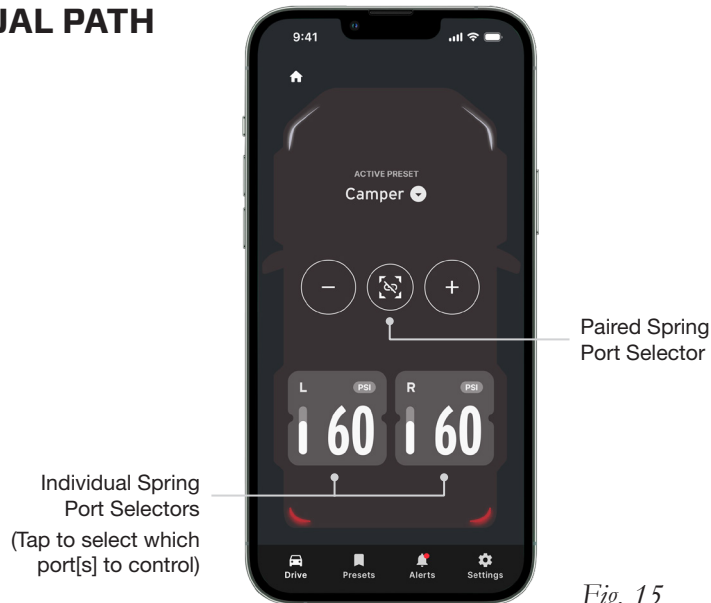


Fig. 15

Mode Display Icons

SINGLE + MANUAL AUX



Fig. 16

SINGLE + TARGET AUX



Fig. 17

System Troubleshooting

Fault Code	Fault Title	Description	Resolution/Troubleshooting
TEMP-00	Temperature Too Low	ECU Temperature too low	Allow the manifold to reach an acceptable temperature.
TEMP-01	Temperature Too High	ECU Temperature too high	Allow the manifold to reach an acceptable temperature.
VOLT-00	Battery Critically Under-Voltage	Battery voltage under 10V	This may indicate a weak or uncharged vehicle battery.
VOLT-01	Battery Warning Under-Voltage	Battery voltage under 11V	This may indicate a weak or uncharged vehicle battery.
VOLT-02	Battery Warning Over-Voltage	Battery voltage over 15V	System's battery voltage is near the maximum voltage this product is designed to support.
VOLT-03	Battery Critically Over-Voltage	Battery voltage over 16V	System's battery voltage is higher than what this product can support.
LEAK-00	Leak Detected	Quiet compressor OFF: System has performed 3 automatic fill events within 5 minutes on a spring port	Ensure that all plumbing is secure (all PTCs are fully connected, all fittings connected properly, etc.). Use the soapy water test if no obvious leaks are evident.
LEAK-01	Leak Detected	Quiet compressor ON: System has dropped 10+ PSI on a spring port in less than 5 minutes	Ensure that all plumbing is secure (all PTCs are fully connected, all fittings connected properly, etc.). Use the soapy water test if no obvious leaks are evident.
COMP-00	Compressor Under-Current	Compressor constant current draw is too low	Incorrect operating mode (tank kits should be switched to tank mode in the app settings), or a worn or poorly connected compressor. Verify electrical connections and compressor for excessive wear.
COMP-01	Compressor Over-Current	Compressor constant current draw is too high	Incorrect operating mode (tank kits should be switched to tank mode in the app settings), or a worn or poorly connected compressor. Verify electrical connections and compressor for excessive wear.
COMP-02	Compressor Fault	If a compressor has been enabled for 90+ seconds and the system hasn't increased by 3 PSI/.21 BAR	Could be caused by a leak anywhere in the system between the compressor and manifold. Ensure that all plumbing is secure (all PTCs are fully connected, all threaded fittings connected properly, etc.). Use the soapy water test if no obvious leaks are evident. If everything checks out with no leaks, it could indicate a faulty or weak compressor.
COMP-03	Compressor Over-Run	If a compressor has been enabled for a total of over 2 minutes and 40 seconds within a 30 minute time span	The compressor should be allowed to cool for ~27 minutes, assuming a 9% duty cycle. The fault should self-clear once the necessary amount of time has passed for its respective duty cycle.
SOLE-00	External Solenoid Over-Current	External Solenoid has too high of constant current draw	Incorrect operating mode (compressor kits should be switched to compressor mode in the app settings), or a worn or poorly connected external valve. Verify electrical connections and check for excessive wear.

System Troubleshooting (cont'd)

Fault Code	Fault Code	Fault Description	Resolution/Troubleshooting
SOLE-01	External Solenoid Under-Current	External Solenoid has too low constant current draw.	Incorrect operating mode (compressor kits should be switched to compressor mode in the app settings), or a worn or poorly connected external valve. Verify electrical connections and check for excessive wear.
SOLE-02	Solenoid Fault	The system hasn't increased by 3 PSI after: external solenoid has attempted to fill 3 times consecutively OR has been enabled for 15+ seconds.	Could be caused by a leak anywhere in the system between the valve and manifold. Ensure that all plumbing is secure (all PTCs are fully connected, all threaded fittings connected properly, etc.). Use the soapy water test if no obvious leaks are evident. If everything checks out with no leaks, it could indicate a faulty or weak valve.
PRESS-00	Sensor 1 Under Pressure	System detects a pressure outside the acceptable maximum or minimum.	The setting for allowed max/min pressure may be changed in the app settings.
PRESS-01	Sensor 1 Over Pressure	System detects a pressure outside the acceptable maximum or minimum.	The setting for allowed max/min pressure may be changed in the app settings.
PRESS-02	Sensor 2 Under Pressure	System detects a pressure outside the acceptable maximum or minimum.	The setting for allowed max/min pressure may be changed in the app settings.
PRESS-03	Sensor 2 Over Pressure	System detects a pressure outside the acceptable maximum or minimum.	The setting for allowed max/min pressure may be changed in the app settings.
MNTG-00	Improper Mounting Orientation	The system has been mounted outside the acceptable mounting orientation.	Reference the installation guide for information on acceptable mounting orientations.
INT-XX	Internal Fault	The system has an internal hardware fault.	Please contact Air Lift Company customer service at 800-248-0892

Replacement Part Information

If replacement parts are needed, contact the local dealer or call Air Lift customer service at **(800) 248-0892**. Most parts are immediately available and can be shipped the same day.

Contact Air Lift Company customer service at (800) 248-0892 first if:

- Parts are missing from the kit.
- Need technical assistance on installation or operation.
- Broken or defective parts in the kit.
- Wrong parts in the kit.
- Have a warranty claim or question.

Contact the retailer where the kit was purchased:

- If it is necessary to return or exchange the kit for any reason.
- If there is a problem with shipping if shipped from the retailer.
- If there is a problem with the price.

Contact Information

Mailing address

P.O. Box 80167
Lansing, MI 48908-0167

Shipping address for returns

2727 Snow Road
Lansing, MI 48917

Phone

Toll free: (800) 248-0892
International: (517) 322-2144

Email

service@airliftcompany.com

Web address

www.airliftcompany.com



Thank you for purchasing Air Lift Products!

NEED HELP?

Contact Air Lift Company Customer Service at
(800) 248-0892 or email service@airliftcompany.com.
For calls outside the U.S. or Canada, dial +1 (517) 322-2144.



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