WirelessOne™

User Guide

Table of Contents

A. Introduction 4
Notation Explanation 4

B. Wireless Controller 5
Operation 5
Backlight 5
Pair the Manifold to the Wireless Controller. 6
Units 6
Troubleshoot 6
Wireless Controller Presets 7

C. Mobile App Pairing 8

D. Mobile App User Interface 9

E. Mobile App Configuration 10
Settings 10
App Presets. 12
Firmware Updates. 13

F. Troubleshooting. 14
Troubleshooting Guide 15
Replacing Batteries in the Wireless Controller. . 18
FCC and Industry Canada Information to User . 18
Finding Air Leaks 19
Fixing Leaks on Barbed Fittings. 19
Cutting Air Lines 20
Fixing Leaks on PTC Fittings 20

Warranty Information 21

Replacement Part Information 22

Contact Information 22

A. Introduction

WirelessOne™ is an on-board air compressor system designed to easily level the vehicle digitally. It can be operated both with the included wireless controller and with a free app, available for iOS and Android operating systems.

The kit includes a compressor, manifold, wiring harness, wireless digital controller, air line and integrating hardware. The system can be used inside or outside the vehicle for adjustments in full view of the vehicle.

The wireless digital controller is a compact, battery-powered unit. Three user-defined memory settings are provided for frequently used settings. As an added safety measure, WirelessOne maintains minimum air pressure of 5 PSI (.34BAR) in the system. The manifold is also weather resistant for maximum life expectancy.

⚠ CAUTION WHEN SETTING UP USING A TANK AND EXTERNAL SOLENOID, CONSIDERED INDIRECT COMPRESSOR FILL, TANK MODE MUST BE SELECTED IN SETTINGS. SIMILARLY, USING A DIRECT COMPRESSOR FILL SETUP (IE. THE COMPRESSOR FILLS THE AIR SPRINGS DIRECTLY) REQUIRES COMPRESSOR MODE TO BE SELECTED IN SETTINGS. USING EITHER MODE IN THE WRONG SETUP WILL LEAD TO SYSTEM ERRORS AND POOR PERFORMANCE.

NOTATION EXPLANATION

Hazard notations appear in various locations in this publication. Information which is 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 MACHINE OR MINOR PERSONAL INJURY.

B. Wireless Controller

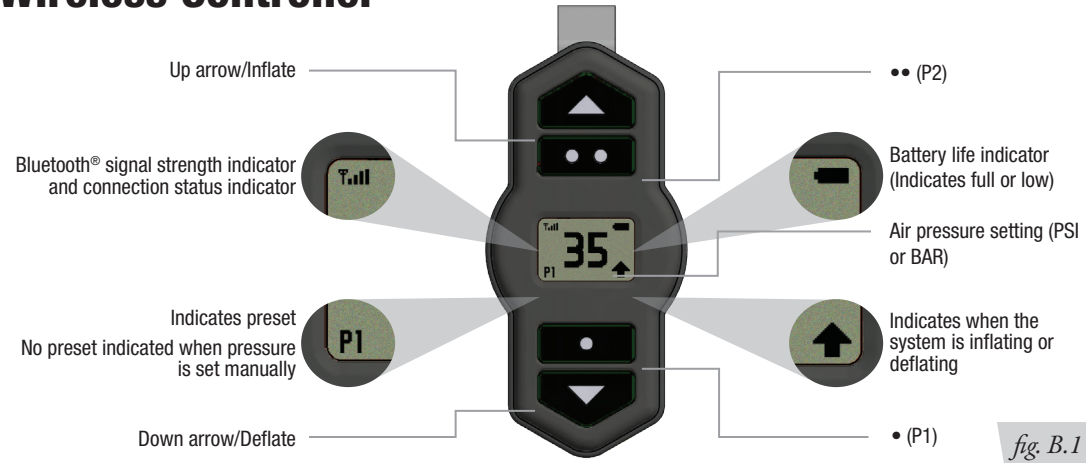


fig. B.1

OPERATION

1. Push any button to wake up the controller, which will show the desired pressure.
2. Press the up or down arrows to raise or lower the pressure in increments of 1 PSI or 0.1BAR.
3. Maximum pressure is 100 PSI (7BAR)*.

Maximum Pressure	100 PSI (7BAR)	Minimum Pressure	5 PSI (.34BAR)

*Maximum pressure varies. See chart on page 9.

BACKLIGHT

The controller display stays on for 40 seconds. The backlight automatically dims after 2 to 10 seconds, depending on battery condition, then goes off after an additional 30 seconds. Press any button to wake up the controller.

NOTE *To enter the menu, press and hold the center button for 5 seconds (Fig. B.1).*

NOTE *Tank mode can only be enabled or disabled through the mobile app.*

PAIR THE MANIFOLD TO THE WIRELESS CONTROLLER

The manifold will enter pairing mode for three minutes after the fuse is installed.

Once a device is paired, it will automatically connect if no other device is already connected. The wireless controller will go into sleep mode after 40 seconds, at which time it will disconnect from the system.

NOTE *The wireless controller comes with batteries installed. To operate the device, slowly pull the tab out of the battery compartment.*

1. To initiate pairing mode, remove the fuse, wait five seconds and reinstall.
2. Press any button to wake up the controller. It will automatically go to the pairing screen if it is not already paired with a manifold. Use the up and down arrow buttons to navigate the pairing menu. Select the device that matches the manifold serial number (Figs. B.2 & B.3).
3. Use the up and down arrows to choose the manifold. Press • (P1) to begin the pairing process.
4. The device will indicate “pairing” when it is connecting to a device. There is no Bluetooth password.
5. Once complete, the controller will either indicate “Pairing successful,” which means the devices are paired or “Pairing unsuccessful,” which will require the user to pull and reinstall the fuse and try again. Once the wireless controller is connected to the manifold, it will automatically connect each time the manifold is active and the controller is woken up.

NOTE *To enter the menu, press the inflate and deflate buttons simultaneously (Fig. B.1).*

UNITS

Choose Units from the menu to change between PSI and BAR (Fig. B.4). The factory default is PSI.

TROUBLESHOOT

Choose Troubleshoot from the menu to see system error messages. For more information about error messages, see *F. Troubleshooting.*

fig. B.2

fig. B.3

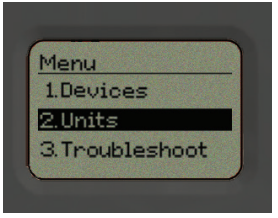


fig. B.4

WIRELESS CONTROLLER PRESETS

1. Set the pressure to the desired level using the inflate and deflate buttons (Fig. B.5).
2. To set each preset:

   Preset 1: Press and hold the • (P1) for 3 seconds.

   Preset 2: Press and hold •• (P2) for 3 seconds.

   Preset 3: Push and hold the • and •• buttons simultaneously for 3 seconds.
3. For example, after setting the desired pressure, press and hold the • to set preset 1.
4. The controller will indicate which preset is currently selected in the lower left corner.

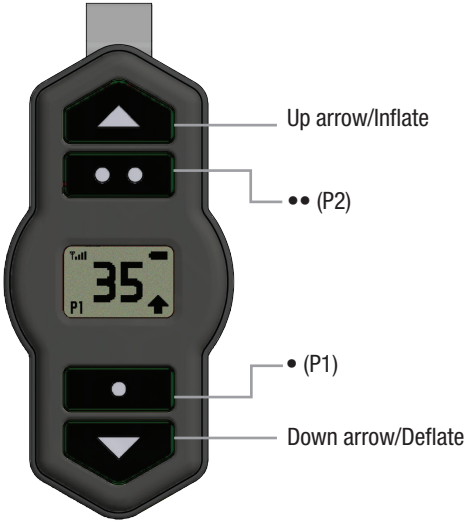


fig. B.5

C. Mobile App Pairing

1. Download the free Air Lift WirelessOne app from the Apple App Store for iOS. Search for Air Lift WirelessOne.

Download on the App Store

GET IT ON Google Play

2. Put the manifold in pairing mode by removing the fuse and reinstalling it after five seconds. The manifold will remain in pairing mode for three minutes after the fuse is reinserted.
3. The app will automatically go to the device's screen if no connected manifold is detected. Click on the device you want to pair. The manifold will have WirelessOne in the title (Fig. C.1 & Fig. C.2).
4. Once the mobile app is paired to the manifold via Bluetooth, it will connect automatically each time the manifold is active and the device is in range. Only one device can be connected at a time. To connect another device, the app on any device currently connected must be closed.
5. To pair a second mobile device, repeat the procedure on that device. The manifold can pair with up to 10 mobile devices. There is no limit to the number of manifolds one mobile device can pair with.

NOTE *The app cannot pair to the manifold if it is currently paired to a hand-held remote that is on.*

iOS

fig. C.1

Android

fig. C.2

D. Mobile App User Interface

1. When the app is open to the user interface, it shows the desired pressure (Fig. D.1 & Fig. D.2).
2. Press the up or down arrows to inflate or deflate in increments of 1 PSI (0.1BAR).
3. Click on the gear for each preset to set and name the presets.
4. Click on the air pressure number to manually enter a desired pressure.

Air Spring System	Minimum Pressure		Maximum Pressure	
	PSI	BAR	PSI	BAR
Air Lift 1000	5	.34	35	2.4
Air Lift 1000HD	5	.34	50	3.4
RideControl	5	.34	100	7
LoadLifter Series	5	.34	100	7

fig. D.1

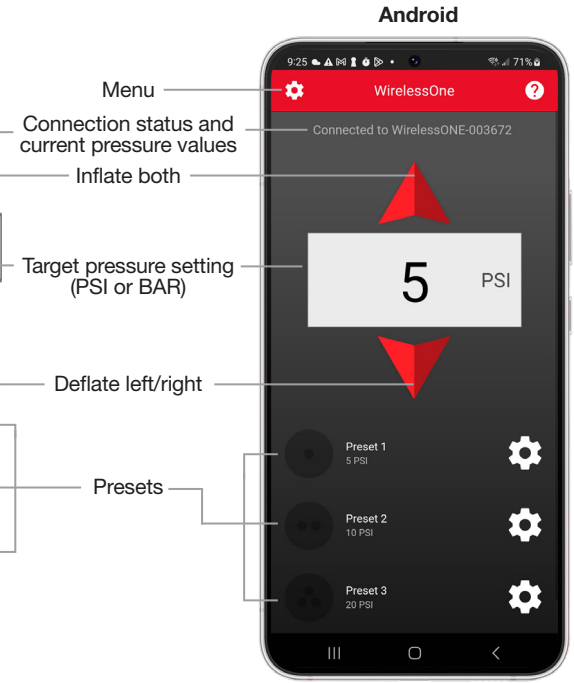


fig. D.2

E. Mobile App Configuration

SETTINGS

The Main Settings screen (Fig. E.1 & Fig. E.2) has these options:

NOTE *Settings are enabled when the check is next to the option.*

Devices

- Lists manifolds that are within range

Troubleshoot

- Displays system error messages (*See F. Troubleshooting*)
- Allows user to send pre-configured diagnostic email to Customer service for troubleshooting assistance

iOS

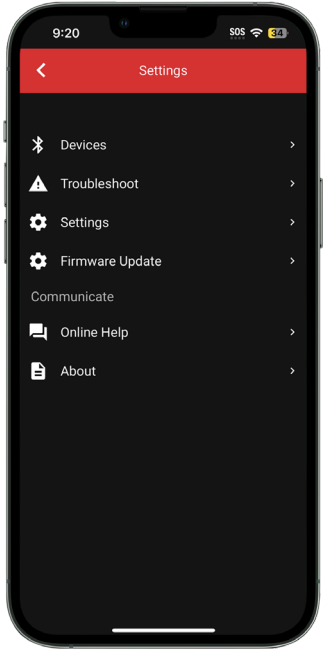


fig. E.1

Android

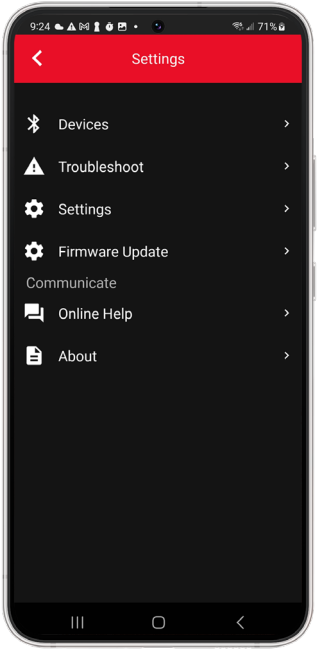


fig. E.2

Settings

- Pressure control units (PSI or BAR)
- Compressor/Tank Settings - Compressor is the default setup. Select Tank if you are using an auxiliary tank and external solenoid to supply the manifold

NOTE *Tank mode can only be enabled or disabled through the mobile app.*

- Prevent Screen Lock stops the mobile device screen from going to sleep while the app is open

Firmware Update

Communicate

Online Help

- Links to AirLiftCompany.com

About (Fig. E.3 & Fig. E.4)

- Shows the app software revision and manifold firmware revision

Use the arrow in the upper left corner to go back to the User interface.

iOS

fig. E.3

Android

fig. E.4

APP PRESETS

1. The app must be connected to the manifold to change presets (Fig. E.5 & Fig. E.6). Presets are stored on the manifold, so changes made in the app will also affect the wireless controller and vice versa.
2. Adjust presets by clicking on the gear next to each preset.
3. To adjust preset values, click on the name or pressure value and type the desired name and pressure.
4. Click “Accept” to save the preset or “Cancel” to close the preset screen.

iOS

fig. E.5

Android

fig. E.6

FIRMWARE UPDATES

1. The phone must be connected to the internet and the app must be connected to the manifold to change firmware on the manifold (Fig. E.7 & Fig. E.8).
2. Press start to begin the update process. A secondary confirmation will appear.
3. Press “OK” from the secondary confirmation pop-up and the update will begin (Fig. E.9 & Fig. E.10).
4. **DO NOT** close the app or turn the manifold off during this process.

iOS

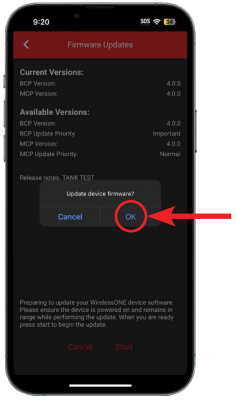


fig. E.9

Android

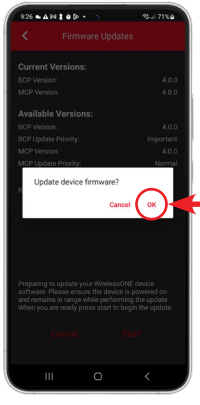


fig. E.10

iOS

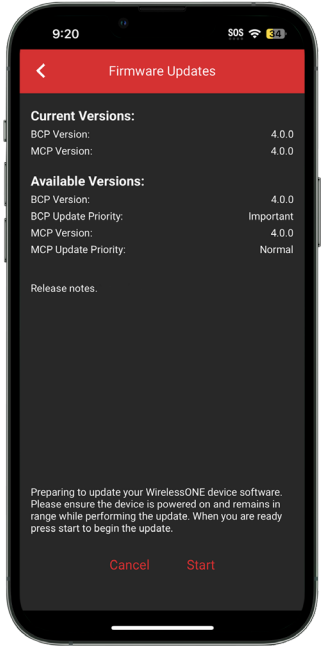


fig. E.7

Android

fig. E.8

F. Troubleshooting

For any code not listed, contact Air Lift Customer Service at **(800) 248-0892** or **service@airliftcompany.com.**

Error codes are labeled “Active Errors” and “Dormant Errors” on the app (Fig. F.1 & Fig. F.2). Active and dormant error codes are indicated by “A” and “D” on the wireless controller (Fig. F.3).

Use the “CLEAR ERRORS” button to clear current codes and check for presently active codes.

NOTE *Error codes can only be cleared by using the mobile app.*

Examples of error codes on the smartphone apps for iOS and Android

Example of an error code on the wireless controller

fig. F.3

iOS

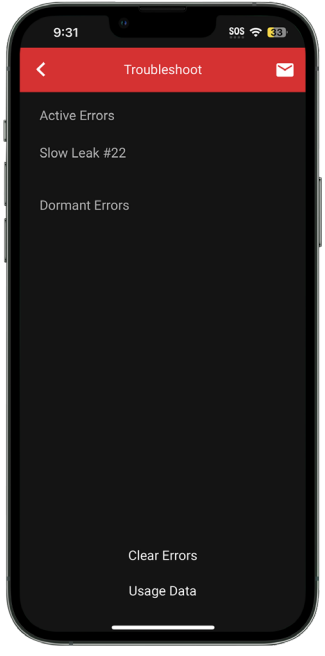


fig. F.1

Android

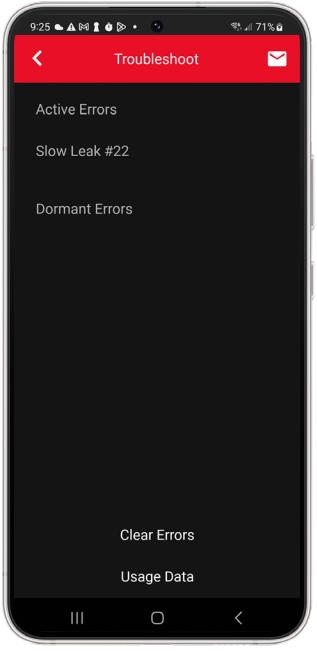


fig. F.2

TROUBLESHOOTING GUIDE

Problem	Error Code	Potential Cause	Solution
If the ignition wire is not connected, the system will only maintain a preset when the vehicle starts moving or is connected to the wireless controller or mobile app.			
Compressor doesn't run when inflation is commanded	1	Vehicle battery voltage is too low (below 9 volts)	Check the vehicle battery
	2	Vehicle battery voltage is too high (above 18 volts)	Check the vehicle battery and charging system
	3	Manifold temperature is too cold	Allow manifold to warm up
	4	Manifold temperature is too hot	Allow manifold to cool down. Move manifold to location that is not near heat sources
	14	Compressor under-current	Check battery and ground connections. Disconnect the compressor and test on the bench using 12 volts. Remove and reinstall the 15A fuse to reset the fault.
	15	Compressor over-current	Use the mobile app to clear the error code. Disconnect the compressor and test on the bench using 12 volts
	18	Compressor duty cycle limit has been reached	Allow the compressor to sit idle until the cool down period (15 minutes) has been reached
	19	Blockage in the compressor or system which is preventing air flow	Check for system blockages or frozen moisture in the air lines. Remove and reinstall the 15A fuse to reset the fault
	-	Bad ground, poor wire connections, bad compressor or bad manifold	Disconnect the compressor and test on the bench using w12 volts

TROUBLESHOOTING GUIDE (CONTINUED)

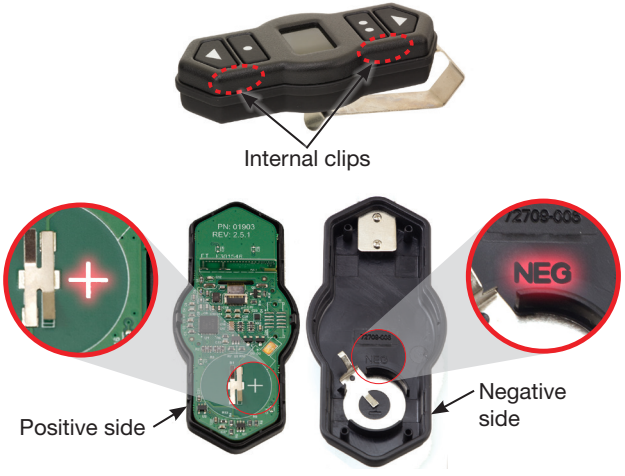
Problem	Error Code	Potential Cause	Solution
System does not exhaust when deflation is commanded	1	Vehicle battery voltage is too low (below 9 volts)	Check the vehicle battery
	2	Vehicle battery voltage is too high (above 18 volts)	Check the vehicle battery and charging system
	3	Manifold temperature is too cold	Allow manifold to warm up
	4	Manifold temperature is too hot	Allow manifold to cool down. Move manifold to location that is not near heat sources
Nothing happens when the vehicle is turned on	-	If the ignition wire is not connected, the system will only maintain a preset if the vehicle starts moving or is connected to the wireless controller or mobile app	Connect the optional ignition wire if desired. Connect to the manifold using the remote or mobile app to wake the system up for quicker adjustments
Nothing happens when making an adjustment with the remote	-	When first powering on the wireless controller, the Bluetooth connection is established in the background. Changes to the desired pressure can be made while connecting, but the adjustment command won't be sent until the Bluetooth connection is complete and signal strength icon is visible in the upper left corner of the screen	Wait for the Bluetooth connection to complete. The last adjustment will automatically be made once the connection is established

TROUBLESHOOTING GUIDE (CONTINUED)

Problem	Error Code	Potential Cause	Solution
Unable to connect to the manifold with the remote	-	Wireless controller batteries are low	Check wireless controller battery icon. Change batteries if necessary (See page 20)
	-	Blown 15A fuse	Check 15A fuse. Enter the pairing screen on the remote or the devices menu on the mobile app and see if the manifold is visible via Bluetooth
	-	Weak Bluetooth signal	Ensure the manifold is mounted forward of the rear axle. Move manifold to a location that is not shielded by metal
	-	Wireless controller has become unpaired from the manifold	Re-pair the remote by removing and re-inserting the 15A fuse. The manifold will be in pairing mode for 3 minutes after power is applied
System does not maintain/reach ride height	21	Large leak in the system	Locate and correct leak (See Finding Air Leaks and Fixing Leaks on Barbed Fittings and Fixing Leaks on PTC Fittings). Remove and reinstall the 15A fuse to reset the fault
	-	The vehicle could be overloaded	If the air pressure in the system is at its max pressure of 100 PSI (7BAR), the system will stop inflating.
	-	Compressor mode is enabled in a tank setup	Put the system in tank mode via settings in the app
Compressor runs often without commanding an inflate adjustment	22	Small air leak in the system	Locate and correct leak (See Finding Air Leaks and Fixing Leaks on Barbed Fittings and Fixing Leaks on PTC Fittings)
Compressor turns on when commanding fill, but does not hit pressure target	15	The system is set to tank mode in a compressor setup	Put the system in compressor mode via settings in the app

REPLACING BATTERIES IN THE WIRELESS CONTROLLER

1. To install the two CR2032 batteries in the wireless controller, use a small flat screwdriver to separate the two halves of the controller by prying apart the internal clip locations.
2. Stack the batteries positive to negative inside the rear cover with the positive end pointed in the direction of the circuit board. Take note of “NEG” on the case and “+” symbol on the circuit board.
3. Snap the front cover/circuit board onto the rear cover.



FCC AND INDUSTRY CANADA INFORMATION TO USER

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Note: Changes or modifications not expressively approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Remote
FCC ID: 2ANLC-0MQ228171 IC: 23130-0MQ228171

Manifold
FCC ID: 2ANLC-HJL71117 IC: 23130-HJL71117

FINDING AIR LEAKS

1. Inflate the air springs to 30 PSI (2.1BAR).
2. Spray all connections with a solution of liquid dish soap and water. Wait 30 seconds and check for bubbles which indicate leaks.
3. Check the air pressure again after 24 hours. A 2-4 PSI (.14-.28BAR) loss after initial installation is normal. Retest for leaks if the loss exceeds 5 PSI (.34BAR).
4. After checking for leaks, deflate the springs to the minimum pressure required to restore the system to normal ride height.

FIXING LEAKS ON BARBED FITTINGS

1. If there is a leak at the Schrader valve, tighten the valve with a valve core tool.
2. If there is a leak at any barbed fitting, cut the air line 1 1/2” (38mm) behind the fitting. Use a pair of pliers or locking pliers to twist and pull the air line off of the fitting. Do not cut the air line lengthwise at the fitting because this could nick the barbs, likely causing it to leak.
3. Reinstall the air line and the air line clamp if the fitting has one. Make sure the air line covers all barbs.

CUTTING AIR LINES

When cutting air lines, use a hose cutter and make clean, square cuts. Do not use scissors or wire cutters because these tools will deform the air line, causing it to leak around fittings. Do not cut the lines at an angle.

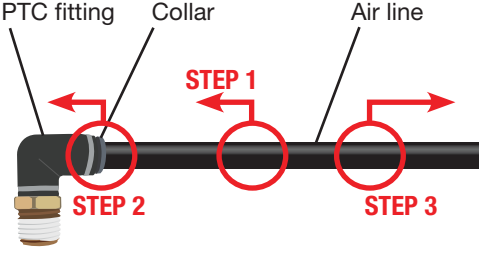
The maximum bend radius for 1/4” air line is 1” (25mm). Do not bend the air line more than the maximum bend radius or side load the fitting connections. Air lines are to be installed straight into fittings.

FIXING LEAKS ON PTC FITTINGS

After insertion, check the PTC fitting connection by pulling on each line to verify a robust connection.

To release the air line from the connection, first release all air from the system. Push in on the air line (step 1), push the collar in (step 2), and with the collar depressed, pull the air line out of the fitting (step 3).

To reconnect, push the air line into the fitting and pull to verify a robust connection.



TIPS

- To ensure a proper seal, cut off the end of the air line just beyond the witness mark before reinstalling in the fitting.
- If the fitting is leaking at the threads, it may be necessary to remove and re-apply thread sealant on the threads and re-install 1 1/2 turns beyond finger tight.

Scan the QR Code to learn more about your warranty.

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: +1 (517) 322-2144
Email	service@airliftcompany.com
Web address	www.airliftcompany.com

Need Help?

Contact Customer Service at: (800) 248-0892
or email: service@airliftcompany.com
For calls outside the U.S. or Canada: (517) 322-2144

MADE IN USA
WITH GLOBAL
COMPONENTS

AD-946 • (052302) • ERN 9474 • JJC-0426 • Printed in the USA

Air Lift Company 2727 Snow Road Lansing, MI 48917

California: ⚠WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov