Wireless**AIR**™

App Only, **No Controller** with EZ **Mount**™

AIR LIFT®
Since 1949

User Guide

IDENTIFYING THE DIFFERENCES BETWEEN KITS

Should you need to contact Air Lift customer service, you will need to know which kit you are inquiring about:
The first-generation WirelessAir or the second-generation. The kits are easily identifiable by looking at the manifold, which
is likely mounted under the vehicle.

FIRST GENERATION PN 72000

Manifold

SECOND GENERATION PN 73000EZ

Manifold

Table of Contents

⚠ CAUTION

WIRELESSAIR IS SHIPPED WITH A DEFAULT MAXIMUM PRESSURE OF 100 PSI (6.9BAR). OVERINFLATING THE AIR BAG CAN CAUSE PRODUCT DAMAGE. SEE WIRELESS APP TO CHANGE AIR BAG TYPE (IF NEEDED).

A. Introduction

WirelessAIR™ App Only, No Controller with EZ Mount is an on-board air compressor system designed to easily level the vehicle digitally. It can be operated with a free app, available for iOS and Android operating systems.

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

WirelessAIR™ App Only, No Controller with EZ Mount is a dual path system with three user-defined memory settings to provide quick access to frequently used settings. As an added safety measure, WirelessAIR™ App Only, No Controller with EZ Mount maintains minimum air pressure (5 PSI [.34BAR]) in the system. The manifold is also weather resistant for maximum life expectancy.

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.

SYSTEM FUNCTIONALITY

- Maintain mode is intended to ensure that air spring pressure does not drop below the target pressure value. Therefore, the system will only inflate to maintain a pressure but it will never deflate when a load is added. Preset values should be set after the vehicle is loaded (except for Air Lift 1000 Series).

- The wireless app primarily displays the target pressure. The actual pressure is only shown when the system is making an adjustment. Keep in mind that if you set a target pressure and then add or remove load, the actual pressure will likely change. Preset values should be commanded after the vehicle is loaded or unloaded (except for Air Lift 1000 Series).

- When the system performs an inflate, the exhaust valve will temporarily open to relieve compressor head pressure. An audible exhaust sound will be heard during an inflate.

- During an inflate, the compressor will slowly start up to build pressure. This slow start is noticeable and is expected behavior. It does not indicate a bad compressor.

- The system limits the maximum pressure to the air spring depending on the air spring kit installed. **The default is 100 PSI (6.9BAR)** so if using an air spring kit other than a LoadLifter or RideControl kit, you will need to change the air bag type.

- The system uses Bluetooth technology and can only hold a connection with one mobile device at a time. If a device is connected, you cannot connect another device to the mobile app until the connection is closed.

- To avoid constant adjustments, the system will target within 2 PSI (.14BAR) of the target pressure. Therefore, there may be instances where a single increment or decrement of the target pressure does not force an adjustment.

- When power is cycled to the manifold, it will target the last stored target pressure. An audible adjustment may be heard. Cycling power includes removing and reinstalling the fuse, disconnecting and reconnecting the manifold connector or performing a firmware update which results in a restart.

SYSTEM FUNCTIONALITY (CONT.)

- Whenever you have a new device to pair to the manifold, the power to the manifold will need to be cycled. Cycling power includes removing and reinstalling the fuse or disconnecting and reconnecting the manifold connector.

- The compressor duty cycle limits the compressor's on time in order to protect the compressor and ensure longevity. When a compressor over-run fault is set, the system will not inflate and a wait period is needed until the compressor will operate again.

- The system has advanced fault detection in order to prevent system damage and ensure system longevity. Some faults do require a manifold power cycle to clear. This is to ensure that the cause is evaluated and resolved before causing any potential damage. Please refer to *F. Troubleshooting Guide* for instructions on resetting faults.

- Use of the ignition wire is required. When it is connected to a switched ignition source, the system will only turn on while ignition is on and will remain off while ignition is off. However, if the mobile app is connected and paired to the system before the system goes to sleep, opening the mobile app will wake the system and it will be fully functional.

B. Pair the Manifold to the Mobile App

1. Download the free Air Lift WirelessAir app from the Apple App Store for iOS and from Google Play for Android. Search for Air Lift WirelessAir.

2. You can put the manifold in pairing mode by removing the fuse and reinstalling it after five seconds or by disconnecting and reconnecting the manifold connector. The manifold will remain in pairing mode for five minutes after the fuse is reinserted.

3. The app will automatically go to the devices screen if no connected manifold is detected. Click on the device you want to pair. The manifold will have WirelessAir in the title, along with the serial number. Each device also shows the connection status (Fig. B.1 or B.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 4 devices. If a 5th device is paired the first device will be removed. There is no limit to the number of manifolds one mobile device can pair with.
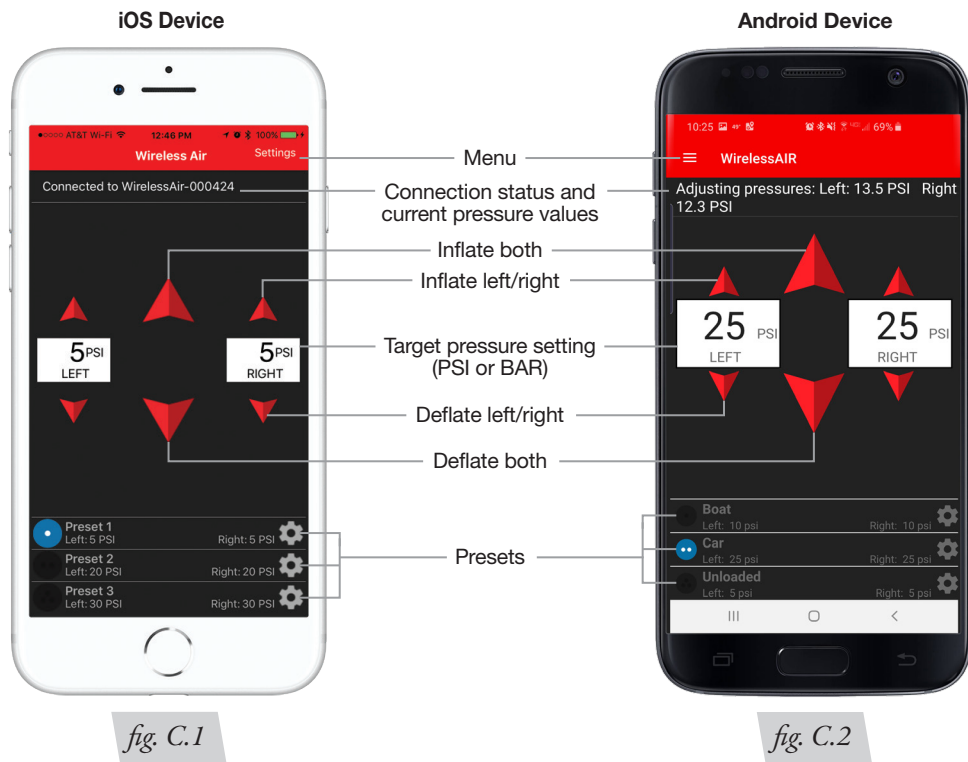
iOS Device

Android Device
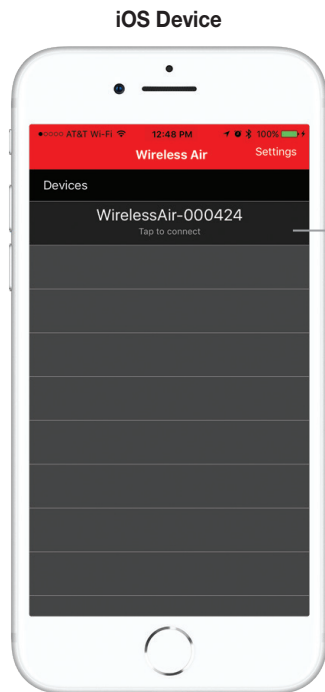
Manifold title

fig. B.1
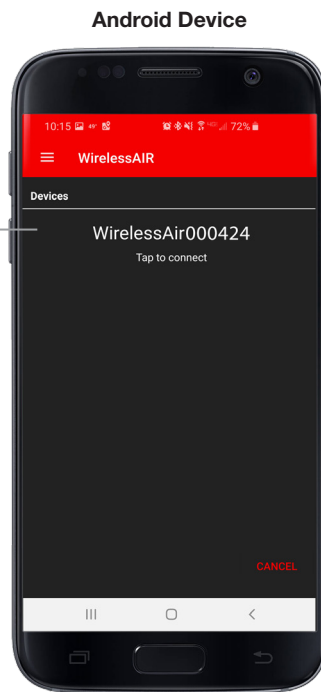
fig. B.2

C. Mobile App User Interface

1. When the app is open to the user interface, it shows the desired pressure (Fig. C.1 or C.2).

2. Press the up or down arrows to inflate or deflate in increments of 1 PSI (0.1BAR).

3. To select a preset, press anywhere inside the row containing the desired preset name. To obtain the preset, press inside the row a second time.

NOTE *Maximum pressure will depend on the type of air spring selected. The default is LoadLifter series (100 PSI [6.9BAR]).*

iOS Device

Android Device

Menu

Connection status and
current pressure values

Inflate both

Inflate left/right

Target pressure setting
(PSI or BAR)

Deflate left/right

Deflate both

Presets

iOS Device screen contents:

Wireless Air — Settings

Connected to WirelessAir-000424

5 PSI LEFT   5 PSI RIGHT

Preset 1 — Left: 5 PSI — Right: 5 PSI
Preset 2 — Left: 20 PSI — Right: 20 PSI
Preset 3 — Left: 30 PSI — Right: 30 PSI

fig. C.1

Android Device screen contents:

WirelessAIR

Adjusting pressures: Left: 13.5 PSI   Right 12.3 PSI

25 PSI LEFT   25 PSI RIGHT

Boat — Left: 10 psi — Right: 10 psi
Car — Left: 25 psi — Right: 25 psi
Unloaded — Left: 5 psi — Right: 5 psi

fig. C.2

D. iOS App Configuration

NAVIGATION

1. The Navigation screen (Fig. D.1) has these options:

   Devices
   • Lists manifolds that are within range

   Troubleshoot
   • Displays system error messages (See *F. Troubleshooting Guide*)

   Settings (Fig. D.2)
   • Pressure control units (PSI [default] or BAR)
   • Prevent Screen Lock stops the mobile device screen from going to sleep while the app is open
   • Compressor duty cycle (see next page)
   • Air bag type (see next page)

   Update Firmware

   Communicate

   Online Help
   • Links to: AirLiftCompany.com

   About (Fig. D.3)
   • Shows the app software version and manifold firmware version
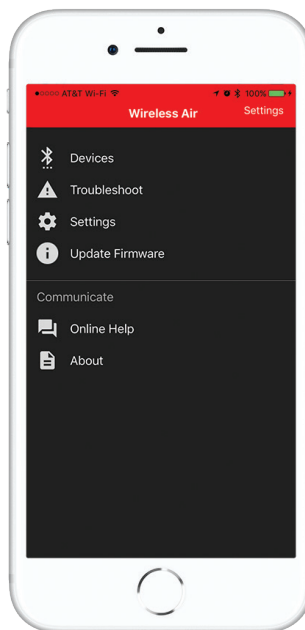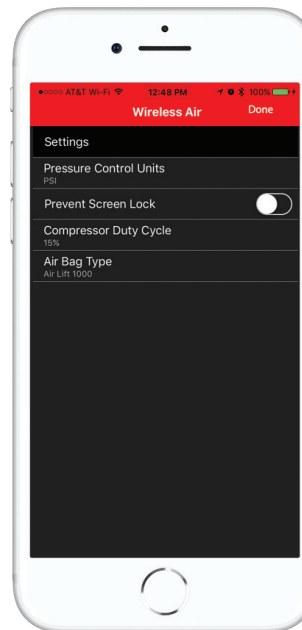
2. Use the "Done" button to go back to the user interface.

Navigation

fig. D.1

Settings

fig. D.2

About

fig. D.3

COMPRESSOR DUTY CYCLE

1. Select Compressor Duty Cycle from the Settings menu.

2. At the bottom of the screen, scroll until the appropriate Compressor Duty Cycle setting is highlighted. System is set to 15% by default. Select Done to save changes.

3. Select tank setting when using an external solenoid and tank instead of a compressor.

NOTE *Compressor duty cycle should not be set higher than the compressor specifies.*

AIR BAG TYPE

Selecting the correct air bag type will limit the maximum operating pressure (Fig. D.4). Refer to the table below for allowable maximum pressures. **The default air bag type is LoadLilfter with a maximum pressure of 100 PSI (6.9BAR).**

⚠ **CAUTION** AIR LIFT 1000/1000HD KITS HAVE A LOWER MAXIMUM PRESSURE AND REQUIRE THE AIR BAG TYPE SETTING BE CHANGED. FAILURE TO SELECT THE PROPER AIR BAG TYPE MAY RESULT IN OVERINFLATING THE AIR BAG AND CAUSE DAMAGE TO THE PRODUCT.

iOS Device

fig. D.4

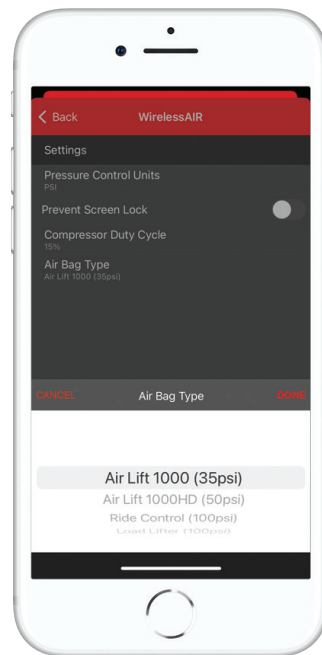| Air Spring System	Minimum Pressure		Maximum Pressure	
	PSI	BAR	PSI	BAR
Air Lift 1000™	5	.34	35	2.4
Air Lift 1000HD™	5	.34	50	3.4
RideControl™	5	.34	100	7
LoadLifter Series	5	.34	100	7

APP PRESETS

1. The app must be connected to the manifold to change presets (Fig. D.5). Presets are stored on the manifold.

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. Tap the screen outside the pop-up window to save the preset and return to the main screen.

5. To select a preset, press the desired circle icon to the left of the preset name. To obtain the preset, press the circle icon a second time.

FIRMWARE UPDATES

1. Update the WirelessAir app to download the latest firmware for transfer to the manifold.

2. The app must be connected to the manifold to change firmware on the manifold (Fig. D.6).

3. Once connected to the manifold, Press "Manifold" and select "Start." Wait for update to complete.
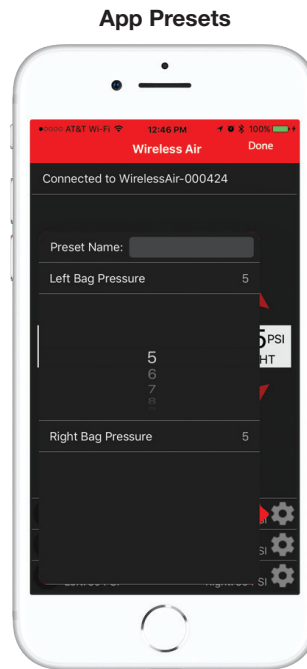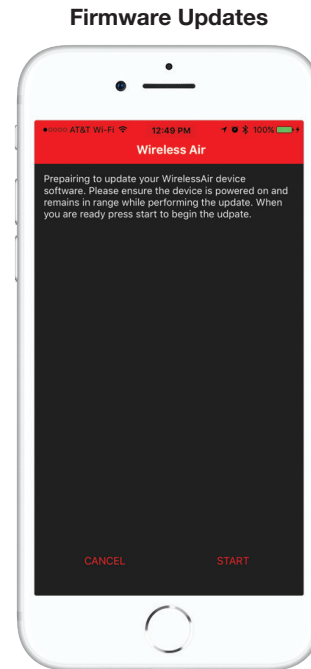
App Presets

fig. D.5

Firmware Updates

fig. D.6

E. Android App Configuration

NAVIGATION/COMMUNICATE

1. The Navigation/Communicate screen (Fig. E.1) has these options:

Navigation

Dashboard
- Closes the menu and returns to the dashboard

Devices
- Lists devices that are available for pairing

Troubleshoot
- Displays system error messages
  (See F. Troubleshooting Guide)

Settings
- Pressure control units (PSI [default] or BAR)
- Prevent Screen Lock stops the mobile device screen from going to sleep while the app is open
- Compressor duty cycle (see next page)
- Air bag type (see next page)

Update Firmware

Communicate

Online help
- Links to AirLiftCompany.com

About (Fig. E.2)
- Shows the app software version and manifold firmware version

2. Click off of the menu bar or press the back button to return to the dashboard.
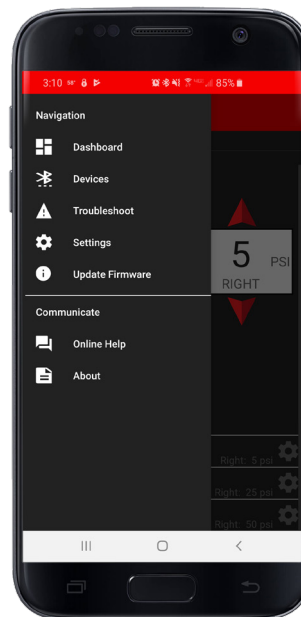
Navigation/Communicate

fig. E.1

About

fig. E.2

COMPRESSOR DUTY CYCLE

1. Select Compressor Duty Cycle from the Settings menu.

2. A dialog box will appear. Select the radio button next to the appropriate Compressor Duty Cycle setting. System is set to 15% by default.

3. Select tank setting when using an external solenoid and tank instead of a compressor.

NOTE *Compressor duty cycle should not be set higher than the compressor specifies.*

AIR BAG TYPE

Selecting the correct air bag type will limit the maximum operating pressure (Fig. E.3). Refer to the table below for allowable maximum pressures. **The default air bag type is LoadLilfter with a maximum pressure of 100 PSI (6.9BAR).**

⚠️ **CAUTION** AIR LIFT 1000/1000HD KITS HAVE A LOWER MAXIMUM PRESSURE AND REQUIRE THE AIR BAG TYPE SETTING BE CHANGED. FAILURE TO SELECT THE PROPER AIR BAG TYPE MAY RESULT IN OVERINFLATING THE AIR BAG AND CAUSE DAMAGE TO THE PRODUCT.

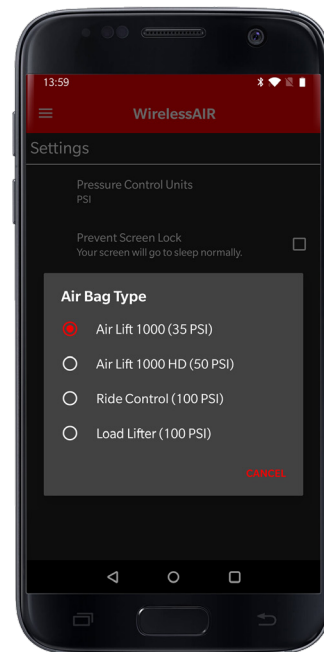| Air Spring System	Minimum Pressure		Maximum Pressure	
	PSI	BAR	PSI	BAR
Air Lift 1000™	5	.34	35	2.4
Air Lift 1000HD™	5	.34	50	3.4
RideControl™	5	.34	100	7
LoadLifter Series	5	.34	100	7

Android Device

fig. E.3

APP PRESETS

1. The app must be connected to the manifold to change presets (Fig. E.4). Presets are stored on the manifold.

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 "SAVE" to save the preset or "CANCEL" to close the preset screen.

5. To select a preset, press the circle icon to the left of the preset name. To obtain a preset, press the circle icon a second time.

FIRMWARE UPDATES

1. Update the WirelessAir app to download the latest firmware for transfer to the manifold.

2. The app must be connected to the manifold to change firmware on the manifold (Fig. E.5).

3. Once connected to the manifold, Press "Start" and select "Manifold." Wait for update to complete.
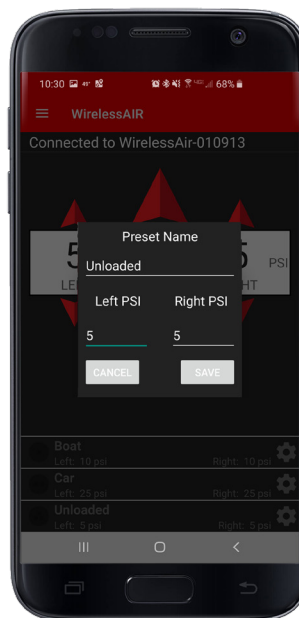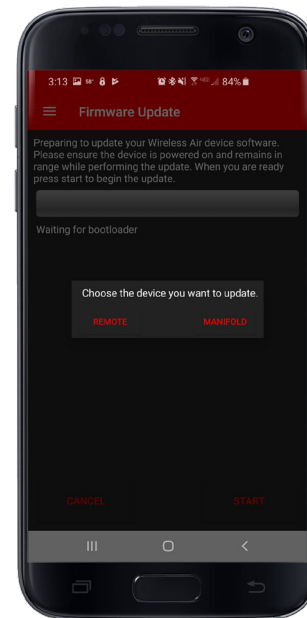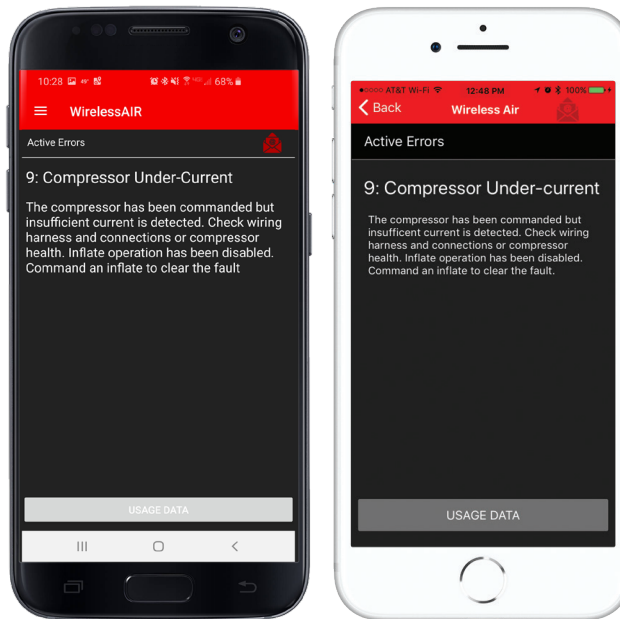
App Presets

Firmware Updates

fig. E.4

fig. E.5

F. Troubleshooting Guide

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

Error codes are labeled "Active Errors" on the app (Fig. F.1).

Check for presently active codes. Some error codes can only be cleared by pulling the fuse.

Example of an error code on the smartphone app for Android (left) and iOS (right).

fig. F.1

Troubleshooting Guide (cont.)

Problem	Error Code	Cause	Solution
Compressor doesn't run when inflation is commanded	5	Vehicle battery voltage is too low (below 9 volts)	Check the vehicle battery
	6	Vehicle battery voltage is too high (above 16 volts)	Check the vehicle battery and charging system
	3, 4	Manifold temperature is too cold	Allow manifold to warm up
	2	Manifold temperature is too hot	Allow manifold to cool down. Move manifold to location that is not near heat sources.
	9	Compressor under-current	Check battery and ground connections. Check compressor connections. Disconnect the compressor and test on the bench using 12 volts. Remove and reinstall the 15A fuse to reset the fault.
	8	Compressor over-current	Disconnect the compressor and test on the bench using 12 volts
	7, 21	Compressor duty cycle limit has been reached	Allow the compressor to sit idle until the cool down period has been reached. The idle time required depends on the duty cycle selected.
	16	Compressor hose disconnected from manifold or blockage in the compressor or system which is preventing air flow	Check hose connections. Check for system blockages or frozen moisture in the air lines. Remove and reinstall the 15A fuse to reset the fault.

Troubleshooting Guide (cont.)

Problem	Error Code	Cause	Solution
Compressor doesn't run when inflation is commanded (continued)	20	Increased compressor current detected	Check battery and ground connections. Disconnect the compressor and test on the bench using 12V.
	-	Bad ground, poor wire connections, bad compressor or bad manifold	Disconnect the compressor and test on the bench using 12 volts
	-	Manifold inlet pressure is too high	Relieve inlet pressure by slowly loosening the compressor check valve at the end of the compressor leader hose
System does not exhaust when deflation is commanded	5	Vehicle battery voltage is too low (below 9 volts)	Check the vehicle battery
	6	Vehicle battery voltage is too high (above 16 volts)	Check the vehicle battery and charging system
	3, 4	Manifold temperature is too cold	Allow manifold to warm up
	2	Manifold temperature is too hot	Allow manifold to cool down. Move manifold to location that is not near heat sources.
	-	Manifold inlet pressure is too high	Relieve inlet pressure by slowly loosening the compressor check valve at the end of the compressor leader hose
Nothing happens when the vehicle is turned on	-	If the ignition wire is not connected, the system is connected to the mobile app	Connect or verify connection of the ignition wire/fuse. Connect to the manifold using the mobile app to wake the system up for quicker adjustments.
System does not maintain/ reach ride height	16	Compressor hose disconnected from manifold or blockage in the compressor or system which is preventing air flow	Check hose connections. Check for system blockages or frozen moisture in the air lines. 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.

Troubleshooting Guide (cont.)

Problem	Error Code	Cause	Solution
Compressor runs often without commanding an inflate adjustment	17	Small air leak in the system	Locate and correct leak (See *Finding Air Leaks*, *Fixing Leaks on Barbed Fittings* and *Fixing Leaks on PTC Fittings*)
System does not operate after a software update	-	Software update failed to complete	Open the mobile app, go to "Devices" and select the manifold. Force a firmware update by going to "Firmware Update" in the Settings menu and proceed with the update (pages 12 & 15).
Unable to inflate past 35 PSI (2.4BAR)	-	Air bag type is limiting the maximum/minimum pressure	Change the Air Bag Type in the Settings menu of the mobile app to the type installed (pages 11 & 14).

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

Manifold
FCC ID: 2ANLC-HMK122713   IC: 23130-HMK122713

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 is more than 5 PSI (.34BAR).

4. After checking for leaks, deflate the springs to the minimum pressure required to restore the system to normal ride height.
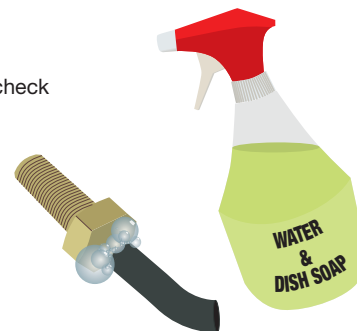
FIXING LEAKS ON BARBED FITTINGS

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.
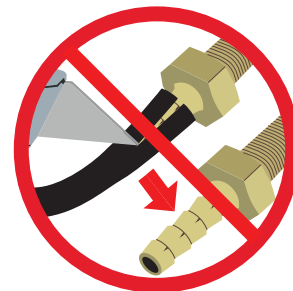
CUTTING AIR LINES

When cutting air lines, use a sharp knife or 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.
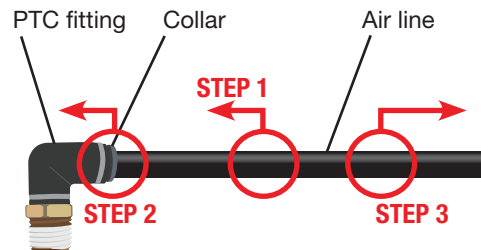
REPLACEMENT PART INFORMATION

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
Online Warranty Claim Address	www.airliftcompany.com/warranty

LIMITED WARRANTY AND RETURN POLICY

Air Lift Company provides a 2-year limited warranty to the original purchaser of WirelessAIR™ App Only, No Controller with EZ Mount from the date of original purchase, that the products will be free from defects in workmanship and materials when used on cars and trucks as specified by Air Lift Company and under normal operating conditions, subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy that is available online at **www.airliftcompany.com/warranty.**

When installed by an Air Lift Company Authorized Installer, Air Lift Company provides a 4-year limited warranty to the original purchaser of WirelessAIR™ App Only, No Controller with EZ Mount from the date of original purchase, that the products will be free from defects in workmanship and materials when used on cars and trucks as specified by Air Lift Company and under normal operating conditions, subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy that is available online at **www.airliftcompany.com/warranty.**

For additional warranty information contact Air Lift Company customer service.

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