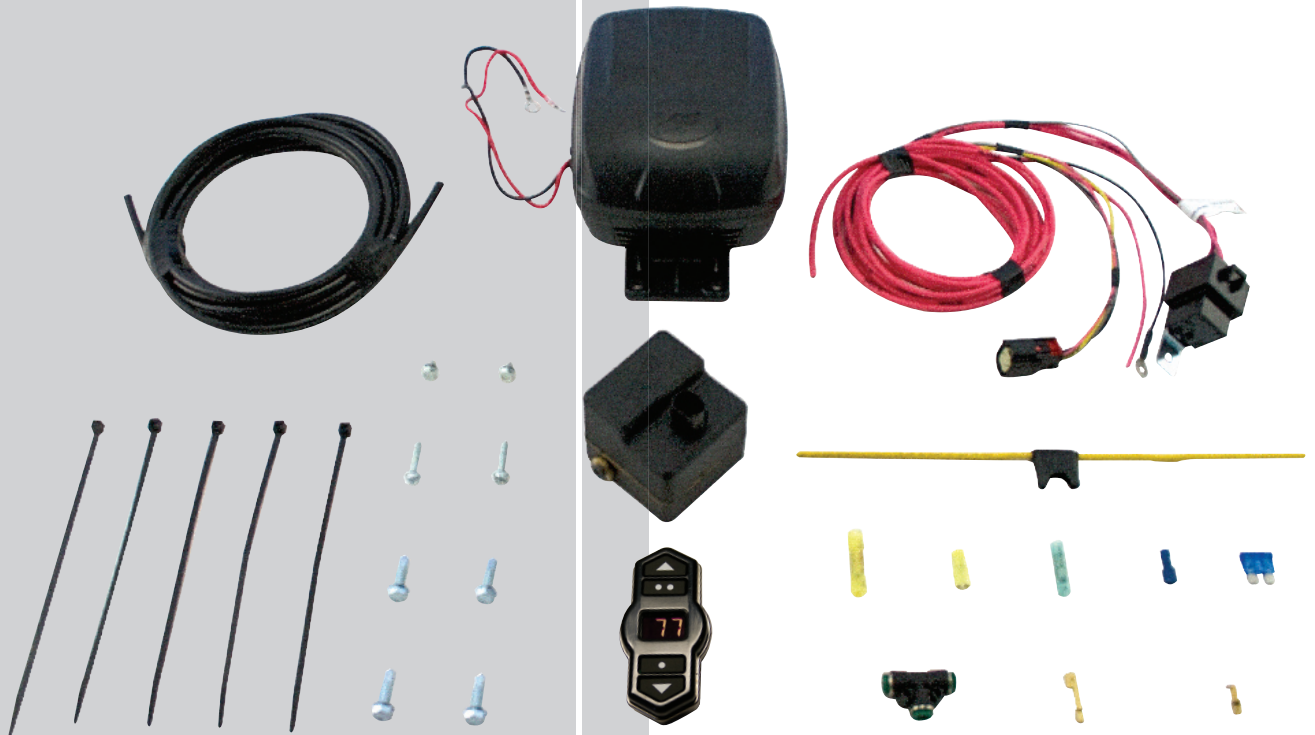# WirelessONE

P/N25870

Key Fob Activated Automatic Leveling Digital On-Board Compressor System

AIR LIFT

INSTALLATION GUIDE

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.

TABLE OF CONTENTS

How to Avoid a Freezing Condition in 25870 WirelessONE Kits

Important

To avoid COLD WEATHER FREEZE UP:
Add 4 oz. (1/2 cup) of
"GUNK" Brand AIR BRAKE ANTI FREEZE

Directly into each flex member. Remove the air line and/or fitting from the air bag and fill directly. Gunk Brand Air Brake Anti-Freeze may be purchased at an automotive parts store or truck supply store.

WARNING: DO NOT FILL THROUGH COMPRESSOR OR MANIFOLD — DAMAGE WILL OCCUR.

CAUTION: DO NOT USE ENGINE ANTI-FREEZE

Check fluid levels in flex member every year (add if needed).

Pour Here

1/2 Cup
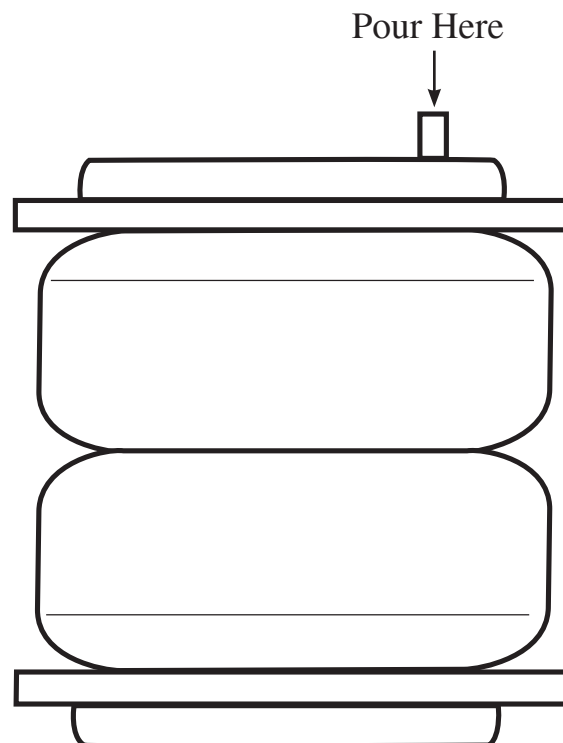
Introduction

The purpose of this publication is to assist with the installation, maintenance and troubleshooting of the WirelessONE System.

It is important to read and understand the entire installation guide before beginning installation or performing any maintenance, service or repair. The information here includes a hardware list, step-by-step installation information, safety information and a troubleshooting guide.

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 for the latest version of this manual or find it online at http://www.airliftcompany.com/simpleair.htm.

SYSTEM INFORMATION

WirelessONE is designed for automatic digital leveling of the on-board compressor system. The kit includes a compressor, manifold, wiring harness, and wireless digital controller. With the capability to control two air springs independently, the system can be used in or outside the vehicle, for adjustments in full view of the vehicle.

The wireless digital controller is a compact, battery powered unit that features advanced integrated diagnostic capabilities for increased safety and peace of mind. It also includes a clip that can be attached to the vehicle's visor. Two user-defined memory buttons are provided for frequently used settings. As an added safety measure, minimum air pressures are automatically maintained. The manifold is also weather resistant and waterproof up to 2 ft for maximum life expectancy.

IMPORTANT SAFETY NOTICE

The installation of this kit does not alter the Gross Vehicle Weight Rating (GVWR) or payload of the vehicle. Check your vehicle's owner's manual and do not exceed the maximum load listed for your vehicle.

Gross Vehicle Weight Rating: The maximum allowable weight of the fully loaded vehicle (including passengers and cargo). This number — along with other weight limits, as well as tire, rim size and inflation pressure data — is shown on the vehicle's Safety Compliance Certification Label.

Payload: The combined, maximum allowable weight of cargo and passengers that the truck is designed to carry. Payload is GVWR minus the Base Curb Weight.

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.

NOTE *Indicates a procedure, practice or hint which is important to highlight.*

Installation - Electrical Schematic

fig. 1

Installation - Pneumatic Schematic

AIR SPRING 2

AIR SPRING 1

COMPRESSOR

1

C
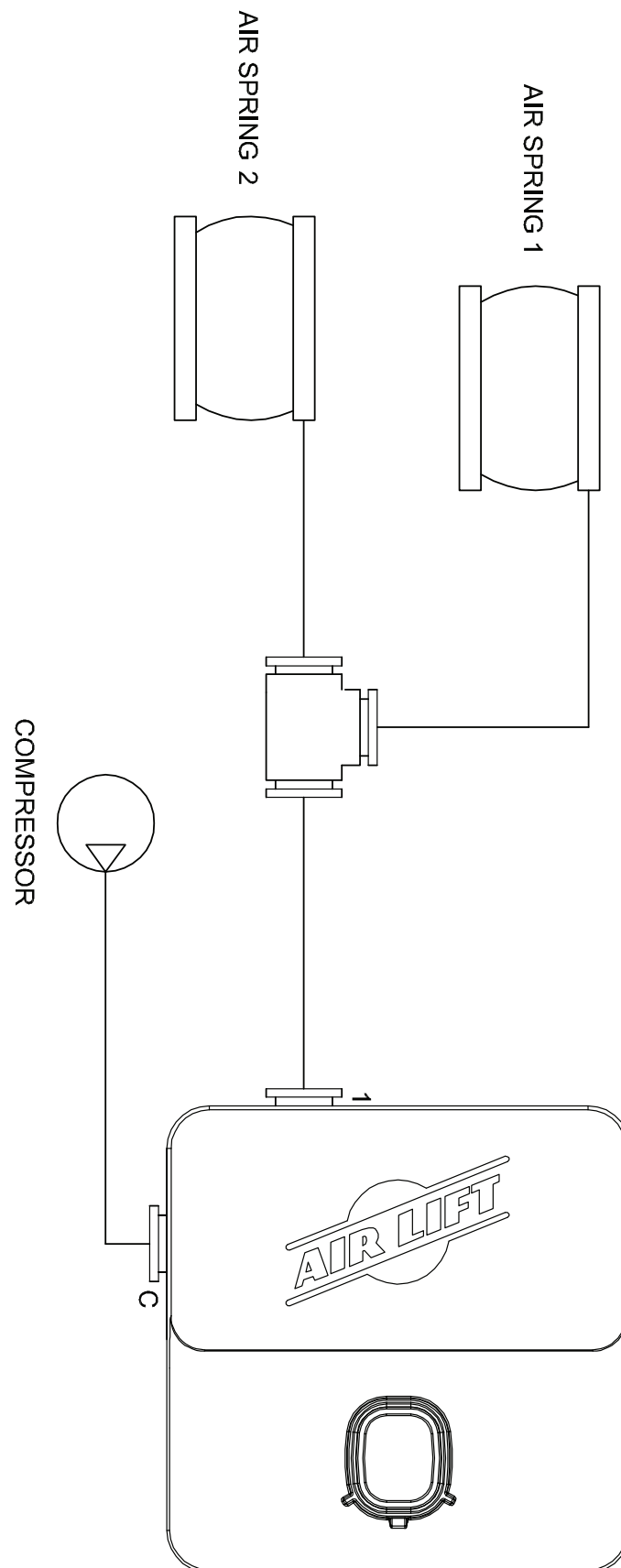
fig. 2

HARDWARE LIST

Item	Part #	Description	Qty
A	72704	Key Fob	1
B	72701	Wireless manifold	1
C	16060	Compressor	1
D	20946	20 ft. hose (1/4")	1
E	26514	Wireless manifold harness	1
Hardware Pack			
F	21838	Tee 1/4 PTC	1
G	24652	ATC fuse, spade 15A	1
H	24561	Adapter mini fuse	1
I	24542	1/4 ATC/ATO tap in fuse	1

Item	Part #	Description	Qty
J	24595	Female spade, 12 ga	1
K	24524	3/16" female spade	1
L	24661	Heat shrink butt 16 ga	1
M	24752	Heat shrink butt 12-10 ga	1
N	24539	Fuse holder ATC/ATO	1
O	10466	8" Zip Tie	5
P	17428	10-24 x 3/8" Slot Hex Head Screw	2

* Batteries included.

STOP! Missing or damaged parts? Call Air Lift customer service at (800) 248-0892 for a replacement part.

TOOLS LIST

Description	Qty
Hoist or floor jacks	1
Safety stands	2
Safety glasses	1
Torque wrench	1
Heavy duty drill	1
#2 Phillips bit driver	1

| Description	Qty
7/32 & 1/8 Drill bits	1
5/16 Driver	1
Hose cutter, razor blade, or sharp knife	1
Spray bottle with dish soap/water solution	1
Digital volt meter	1

Installing the WirelessONE System

INSTALLING THE COMPRESSOR

1. Select a rigid mounting location for the compressor on the vehicles frame or cross member (fig. 3) that shields the compressor from the elements and heat sources.

NOTE *The electrical harness will force compressor to be close to manifold in order to make electrical connections.*

fig. 3

Self-tapping Screws

Compressor Ground

Harness Ground

Relay
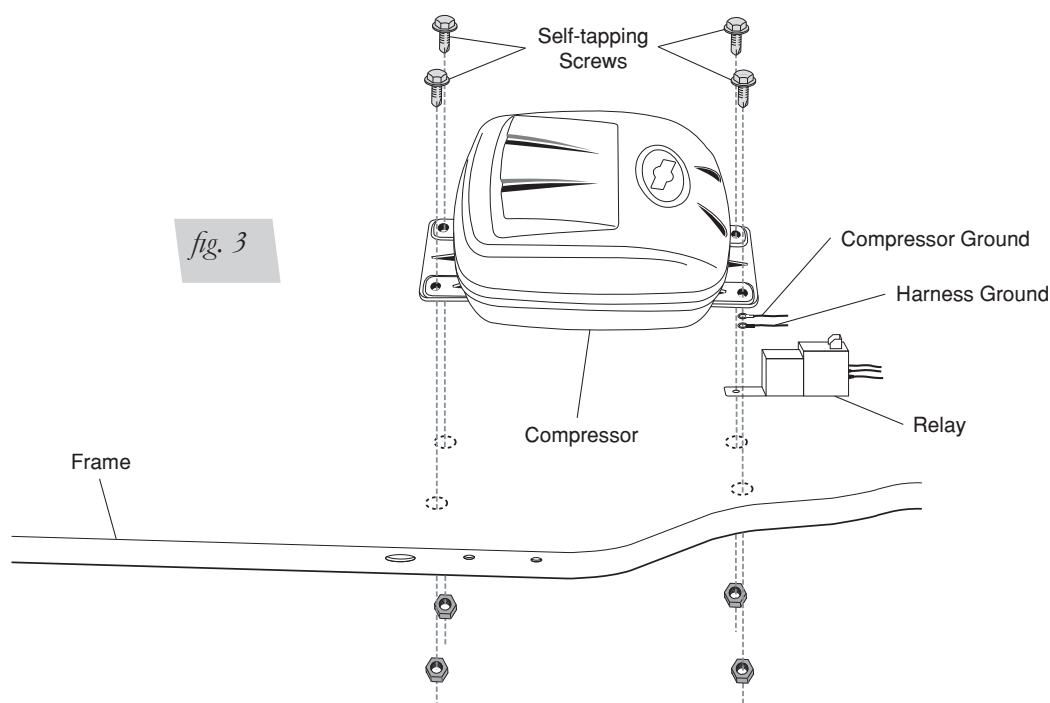
Compressor

Frame

2. Use the supplied self tapping fasteners to fasten the compressor to the frame or cross member.
   - One of the self tapping screws will be used as an electrical ground for the compressor and manifold ring terminals.

INSTALLING THE MANIFOLD

1. Select a rigid mounting location for the manifold (B) on the vehicles frame or cross member that shields the compressor from the elements and heat sources (fig. 4 & 5).

NOTE *The electrical harness will force compressor to be close to manifold in order to make electrical connections.*

2. Drill 2 holes for the mounting screws using the supplied template.
3. Use the supplied 10x24 fasteners (Q) to fasten the compressor to the frame or cross member.

B
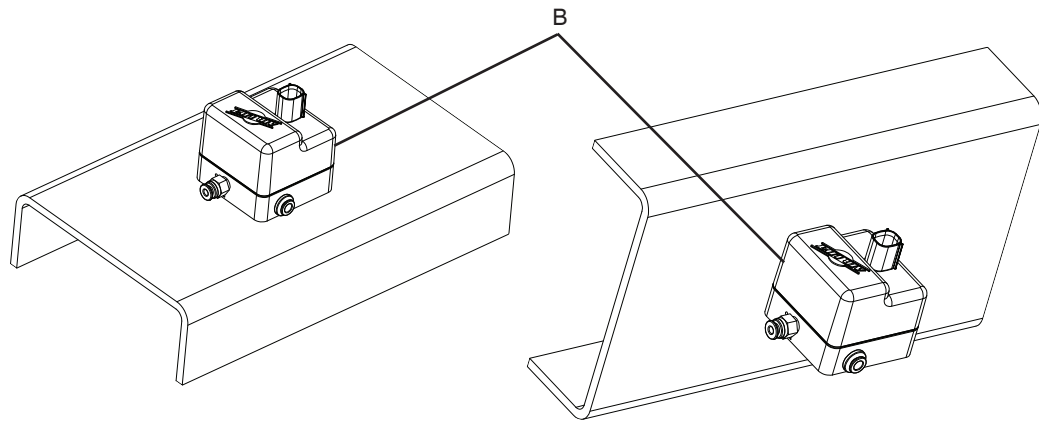
fig. 4

fig. 5

INSTALLING THE HARNESS (E)

Picture of Harness on Vehicle

fig. 6

1. Connect electrical connector to manifold (B).

2. Cut off compressor terminal on red wire.

3. Strip ¼" insulation off compressor red wire.

4. Crimp on weather proof blue butt splice (M) to compressor red wire.

5. Crimp on weather proof blue butt splice (M) to harness wire pink wire   AL007 (PK-14GA).

6. Connect compressor ground wire ring terminal, harness ground wire ring terminal, and relay to vehicle ground.
   • Using one of the self tapping screws for the compressor you can attach all the components to the vehicle frame ground.

Image

fig. 7

7. Route the AL004 (PK-10GA) wire to a 15A ignition source (G).
   - Cut off the excess wire length if all is not needed.

8. Strip off ¼' insulation off both sides of the inline fuse holder (O) and the AL004 (PK-10GA) wire.

9. Crimp on the weather proof yellow butt splice (N) to AL004 (PK-10GA) wire.

10. Crimp on the weather proof yellow butt splice (N) to one side of the inline fuse holder (O).

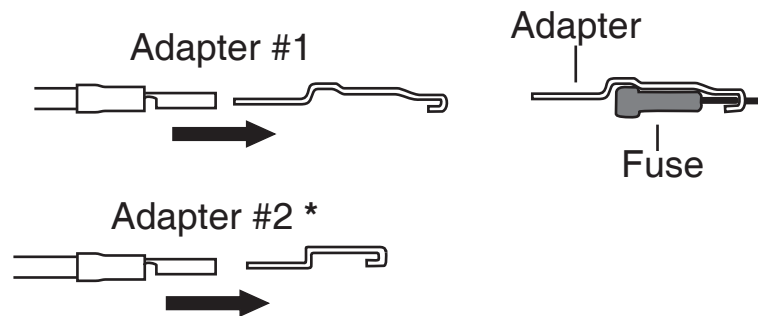11. Select the appropriate type of fuse tap in terminal for your application (fig. 8).

Adapter #1

Adapter

Fuse

fig. 8

Adapter #2 *

* Uses 3/16 (smaller) Female Push On Connector

12. Crimp on the correct terminal that mates with the appropriate type of fuse tap in terminal for your application.

13. Connect the appropriate type of fuse tap in terminal for your application to the inline fuse holder (O).

14. Install fuse (G).

ATTACHING THE AIR LINES

Manifold to Compressor

1. Cut a section of the ¼" DOT air line (D) provided to go from manifold to compressor.

2. Press air line (D) over barb fitting of compressor (C).

3. Insert into "C" port of manifold (B).
   - Manifold to "T-Fitting"

4. Cut a section of the ¼" DOT air line (D) provided to go from manifold (B) to "T- Fitting" (F).

5. Press air line (D) into "1" fitting of manifold (B).

6. Press other side of air line (D) into "T" fitting (F).
   - "T-Fitting" to Springs

7. Cut a section of the ¼" DOT air line (D) provided to go from "T-Fitting" (F) to Left and Right Air Springs.

8. Insert one side of air line (D) into "T-Fitting" (F) and the other into the Air Springs.

CHECKING THE SYSTEM

1. Inspect all air line connections with a solution of 1/5 dish soap to 4/5 water. If a leak is detected in a push-lock-fitting, reinstall the air line to the fitting. Make sure the air line is cut off squarely and that the air line is completely pushed into the fitting.

2. If the compressor or the solenoid fails to function, check the 15 AMP fuse and ground connection. Repair and replace as necessary.

OPERATIONAL MODES

Normal Mode : Mode in which the user can increment and decrement the desired pressure, as well as set and recall the three memory pressures. "LB" will be displayed on startup when the battery is getting low.

Settings Mode: Mode in which the user can change the backlighting color, alter the unit of measure (psig, or BAR).

Settings Mode

1. Press and hold the Up and Down buttons for 5 seconds to enter the settings mode.

2. Once in the settings mode the display will display "SE" to indicate settings mode.

3. In the settings mode the M1 button (fig. 10) will scroll through all the backlighting options.

4. The M2 button (fig. 10) will toggle between the unit of measure for the pressure and display "PS" for psig and "BA" for BAR.

5. Pressing the UP and Down buttons together will exit back into the Normal Mode.

M2

M1

fig. 10

Normal Mode

Increasing desired pressure:

1. Initial press of any button will wake up display and not perform any function.

2. Upon wake up the LCD will display the Desired pressure.

3. Pressing the up arrow will increment the desired pressure by 1 psig, or 0.1BAR depending on the unit of measure selected.
   • When the user releases the button the new desired pressure will be transmitted to the receiver.

4. Holding the up arrow will increment the desired pressure in units of 5psig or 0.5BAR depending on the unit of measure selected.
   • When the user releases the button the new desired pressure will be transmitted to the receiver.

5. The Maximum pressure will be 120psig or 8.3 BAR.
   - If desired pressure is max pressure then pressing the Up arrow will result in no function.

Decreasing desired pressure:

1. Initial press of any button will wake up display and not perform any function.

2. Upon wake up the LCD will display the Desired pressure.

3. Pressing the down arrow will decrease the desired pressure by 1 psig, or 0.1BAR depending on the unit of measure selected.
   - When the user releases the button the new desired pressure will be transmitted to the receiver.

4. Holding the down arrow will decrease the desired pressure in units of 5psig or 0.5BAR depending on the unit of measure selected.
   - When the user releases the button the new desired pressure will be transmitted to the receiver.

5. The Minimum pressure will be 0psig or 0 BAR.
   - If desired pressure is min pressure then pressing the Down arrow will result in no function.

Saving and Recalling Memory 1:

Recalling Memory

- Initial press of any button will wake up display and not perform any function.

- Upon wake up the LCD will display the Desired pressure.

- Press the M1 button to set the M1 pressure as the desired pressure.

- Upon the press of the M1 button the display will display "M1".

- Once the button is released the display will display the new desired pressure and transmit the desired pressure to the receiver.

Saving to Memory

- With the desired pressure on the LCD Press and hold the memory button for 5 seconds to set the desired pressure to memory 1.

- While the M1 button is pressed the display will display "M1".

- Once the desired pressure is saved to M1 the display will flash the backlight three times.

Saving and Recalling Memory 2:

Recalling Memory

- Initial press of any button will wake up display and not perform any function.

- Upon wake up the LCD will display the Desired pressure.

- Press the M2 button to set the M2 pressure as the desired pressure.

- Upon the press of the M2 button the display will display "M2".

- Once the button is released the display will display the new desired pressure and transmit the desired pressure to the receiver.

Saving to Memory

- Press and hold the memory button for 5 seconds to set the desired pressure to memory 2.

- While the M2 button is pressed the display will display "M2".

- Once the desired pressure is saved to M2 the display will flash the backlight three times.

Saving and Recalling Memory 3:

Recalling Memory

- Initial press of any button will wake up display and not perform any function.

- Upon wake up the LCD will display the Desired pressure.

- Press the M1 & M2 buttons to set the M3 pressure as the desired pressure.

- Upon the press of the M1 & M2 buttons the display will display "M3".

- Once the buttons are released the display will display the new desired pressure

Saving to Memory

- Press and hold M1 & M2 buttons for 5 seconds to set the desired pressure to memory 3.

- While the M1 & M2 buttons is pressed the display will display "M3".

- Once the desired pressure is saved to M3 the display will flash the backlight three times.

HOW TO SYNC THE RECEIVER TO THE TRANSMITTER

1. Turn ignition on.
2. Locate the sync wire in the wire harness.
   - It will be the yellow wire that is looped with heat shrink around it.
3. Strip ¼" of the insulation off the end of the wire.
4. Touch this wire to the self tapping screw that you have used for grounding your receiver / compressor.
5. Disconnect power to the receiver.
   - Unplug the connector on the top.
6. Connect power to the receiver while grounding the sync input.
7. Listen for 3 clicks of the internal solenoid, then one click every second.
   - This will indicate that you are now in the "sync mode".
   - Sync mode will last for 30 seconds total.
   - Within the 30 seconds press any button on the transmitter to send a message to the receiver.
   - Once the receiver has received a message it will sync with that transmitter and stop clicking the solenoid in 1 second intervals.

Warranty and Returns Policy

Air Lift Company warrants its products, for the time periods listed below, to the original retail purchaser against manufacturing defects when used on catalog-listed applications on cars, vans, light trucks and motorhomes under normal operating conditions for as long as Air Lift manufactures the product. The warranty does not apply to products that have been improperly applied, improperly installed, used in racing or off-road applications, used for commercial purposes, or which have not been maintained in accordance with installation instructions furnished with all products. The consumer will be responsible for removing (labor charges) the defective product from the vehicle and returning it, transportation costs prepaid, to the dealer from which it was purchased or to Air Lift Company for verification. **Removal of the manifold cover voids Air Lift warranty.**

Air Lift will repair or replace, at its option, defective products or components. A minimum $10.00 shipping and handling charge will apply to all warranty claims. Before returning any defective product, you must call Air Lift at (800) 248-0892 in the U.S. and Canada (elsewhere, (517) 322-2144) for a Returned Materials Authorization (RMA) number. Returns to Air Lift can be sent to: Air Lift Company • 2727 Snow Road • Lansing, MI • 48917.

Product failures resulting from abnormal use or misuse are excluded from this warranty. The loss of use of the product, loss of time, inconvenience, commercial loss or consequential damages is not covered. The consumer is responsible for installation/reinstallation (labor charges) of the product. Air Lift Company reserves the right to change the design of any product without assuming any obligation to modify any product previously manufactured.

This warranty gives you specific legal rights and you may also have other rights that vary from state-to-state. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages. The above limitation or exclusion may not apply to you. There are no warranties, expressed or implied including any implied warranties of merchantability and fitness, which extend beyond this warranty period. There are no warranties that extend beyond the description on the face hereof. Seller disclaims the implied warranty of merchantability. (Dated proof of purchase required.)

Air Lift 1000....................Lifetime Limited	**Load Controller (I)** ....2 Year Limited
RideControl....................Lifetime Limited	**Load Controller (II)** ....2 Year Limited
SlamAir..........................Lifetime Limited	**SmartAir** ....2 Year Limited
LoadLifter 5000*.............Lifetime Limited	**Wireless AIR**......................2 Year Limited
LifeStyle**..........................1 Year Limited	**Other Accessories**............2 Year Limited

*formerly SuperDuty
**formerly EasyStreet

Replacement Information

If you need replacement parts, 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.
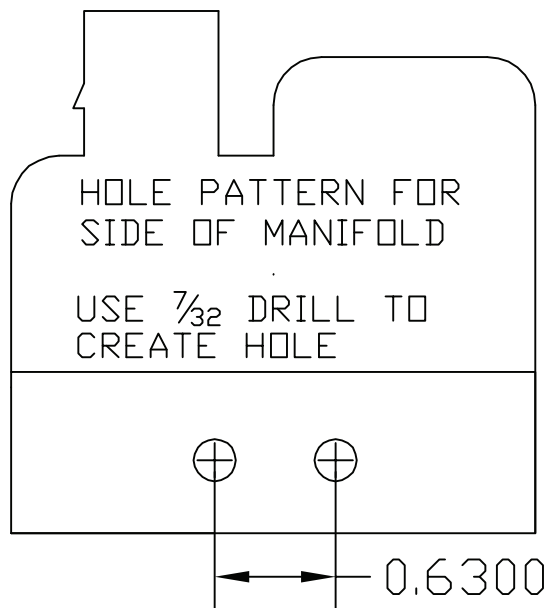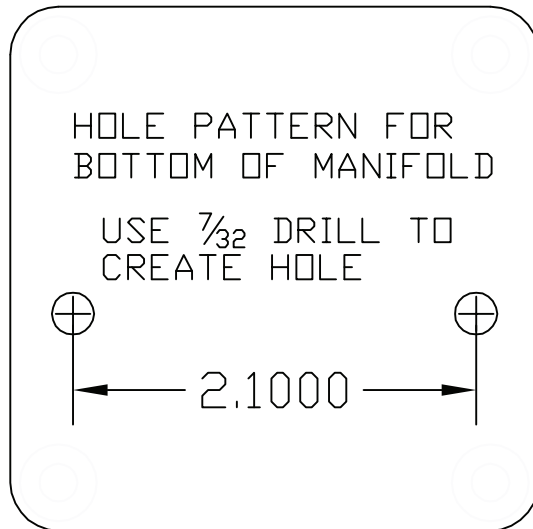- If there is a problem with the price.

Contact Information

If you have any questions, comments or need technical assistance, contact our customer service department by calling (800) 248-0892, Monday through Friday, 8 a.m. to 7 p.m. Eastern Time. For calls from outside the USA or Canada, our local number is (517) 322-2144.

For inquiries by mail, our address is PO Box 80167, Lansing, MI 48908-0167. Our shipping address for returns is 2727 Snow Road, Lansing, MI 48917.

You may also contact us anytime by e-mail at sales@airliftcompany.com or on the web at www.airliftcompany.com.

Templates

HOLE PATTERN FOR
BOTTOM OF MANIFOLD

USE $\frac{7}{32}$ DRILL TO
CREATE HOLE

2.1000

HOLE PATTERN FOR
SIDE OF MANIFOLD

USE $\frac{7}{32}$ DRILL TO
CREATE HOLE

0.6300

COMPRESSOR HOLE PATTERN
7/32 DRILL RECOMMENDED

Need Help?

Contact our customer service department by calling (800) 248-0892, Monday through Friday, 8 a.m. to 7 p.m. Eastern Time. For calls from outside the USA or Canada, our local number is (517) 322-2144.

**Register your warranty online at
www.airliftcompany.com/warrantyreg.htm**

Thank you for purchasing Air Lift products — the professional installer's choice!

Air Lift Company • 2727 Snow Road • Lansing, MI 48917 or PO Box 80167 • Lansing, MI 48908-0167
Toll Free (800) 248-0892 • Local (517) 322-2144 • Fax (517) 322-0240 • www.airliftcompany.com

Printed in
the USA

FCC NOTICES:

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. 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.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.   SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.