



# **Air Lift Performance 3S™ Kits 27708, 27709, 27715-27720**

Stand-Alone Manifold



## **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.*





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# Introduction

The purpose of this publication is to assist with the installation of Air Lift Performance® 3S.

Read and understand the entire installation guide before beginning installation or performing any maintenance, service or repair.

Air Lift Performance 3S is available for use with 1/4" and 3/8" air lines. There are 1/4" and 3/8" versions of the kit for use with the ALP3 display, APV2 display, AVS or other switch box or the ALP3 app only. No matter which version is chosen, the system will work with the ALP3 app.

Air Lift Company reserves the right to make changes and improvements to its Air Lift Performance products and publications at any time. For the latest version of this manual, contact Air Lift Company at (800) 248-0892 or visit [airliftperformance.com](http://airliftperformance.com).

## 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**


**WARNING**


**CAUTION**

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

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

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.*

# Hardware Lists

## Common parts in all kits

D	17103	5/16"-18 x 1" Hex cap screw.....	2
E	18542	5/16" Stainless steel flat washer.....	2
F	17494	1/4"-14 x 2" Self-tapping screw .....	2
I	24503	Fuse ATM 3A.....	2
K	24661	Heat-shrinkable butt splice 14-16GA .....	2
L	24681	Ring terminal 3/8" 14-16GA.....	2
M	24524	Ins. female .187" term 14-16GA .....	1
N	24594	Ins. female .250" term 14-16GA .....	1
O	24561	ATM fuse tap adapter .....	1
P	24542	ATO/ATC fuse tap adapter.....	1
R	24501	Fuse holder ATM.....	1

## ALP3 Display

### 27717 (1/4" Manifold) & 27718 (3/8" Manifold)

A	26835	Harn-ALP 3S W/ ALP3 display .....	1
B1	72645	3S Manifold (1/4") .....	1
B2	72644	3S Manifold (3/8") .....	1
G2	27055	ALP3 display .....	1
H	26498-009	USB display cable.....	1

## Switch Box

### 27708 (3/8" Manifold) & 27709 (1/4" Manifold)

A	26898	Harn-ALP 3S AVS switch box.....	1
B1	72645	3S Manifold (1/4") .....	1
B2	72644	3S Manifold (3/8") .....	1
C	24532	Butt splice 22-18GA.....	8

## APV2 Display

### 27715 (1/4" Manifold) & 27716 (3/8" Manifold)

A	26834	Harn-ALP 3S W/ APV2 display .....	1
B1	72645	3S Manifold (1/4") .....	1
B2	72644	3S Manifold (3/8") .....	1
G1	27045	APV2 display .....	1

## ALP3 Smartphone App Only

### 27719 (1/4" Manifold) & 27720 (3/8" Manifold)

A	26836	HARN-ALP 3S app only .....	1
B1	72645	3S Manifold (1/4") .....	1
B2	72644	3S Manifold (3/8") .....	1

# Installation

Air Lift Performance 3S is a simplified air management kit including a manifold and basic wiring harness. It is intended to be installed with other components purchased separately. Those pieces include:

- Air springs
- Controller (such as AVS switchbox)\*
- Compressor
- Tank
- Pressure switch
- Relay
- Water trap
- Fittings/air lines
- 10-, 12-, 18- and 20-gauge insulated copper wire, connectors, terminals, butt splices
- Schrader valve and blow-off valve

\* Versions of 3S are also sold with the Air Lift Performance V2 or ALP3 controller or just the smartphone app.

The installation diagram shows a suggested component layout for installing the 3S system into a specific application. Because the rest of the components to complete the system are purchased separately, this setup may not work for all scenarios.

The 3S manifold features five 1/8-27 NPT pressure ports on the side opposite from the push-to-connect fittings for the air lines. Four of the ports correspond with the air line fittings (as identified on the manifold) directly across from one another. The fifth port is for tank pressure.

## NOTE

*The ALP3 display cable can be lengthened as much as 8 feet using a USB 3.0 cable.*



## CAUTION

DISCONNECT FROM VEHICLE POWER WHEN JUMP-STARTING OR WELDING ON THE VEHICLE. FAILURE TO DO SO COULD RESULT IN DAMAGE TO THE MANIFOLD.



## CAUTION

BEST PRACTICE IS TO LOCATE THE MANIFOLD UNIT INSIDE THE VEHICLE. IF EXTERNAL MOUNTING IS DESIRED, THE MANIFOLD SHOULD BE LOCATED IN AN AREA SHIELDED FROM DIRECT WATER SPRAY FROM TIRES OR CAR WASHES.

# System Use

Refer to the ALP3S User Guide included with the kit to learn how to use the system.

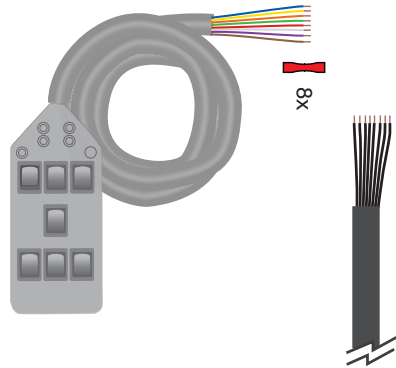
Visit these links for information on using the system.

**ALP3 and smartphone app:** <http://air-lift.co/alp3>

**APV2:** <http://air-lift.co/apv2>

# Installation Diagram

8x



**AVS switch box\*\***

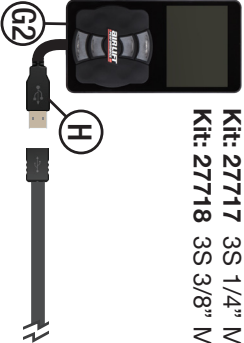
Kit: 27708 3S 3/8" Manifold  
Kit: 27709 3S 1/4" Manifold

**ALP3 smartphone app only\***

Kit: 27719 3S 1/4" Manifold  
Kit: 27720 3S 3/8" Manifold

**ALP3**

Kit: 27717 3S 1/4" Manifold  
Kit: 27718 3S 3/8" Manifold



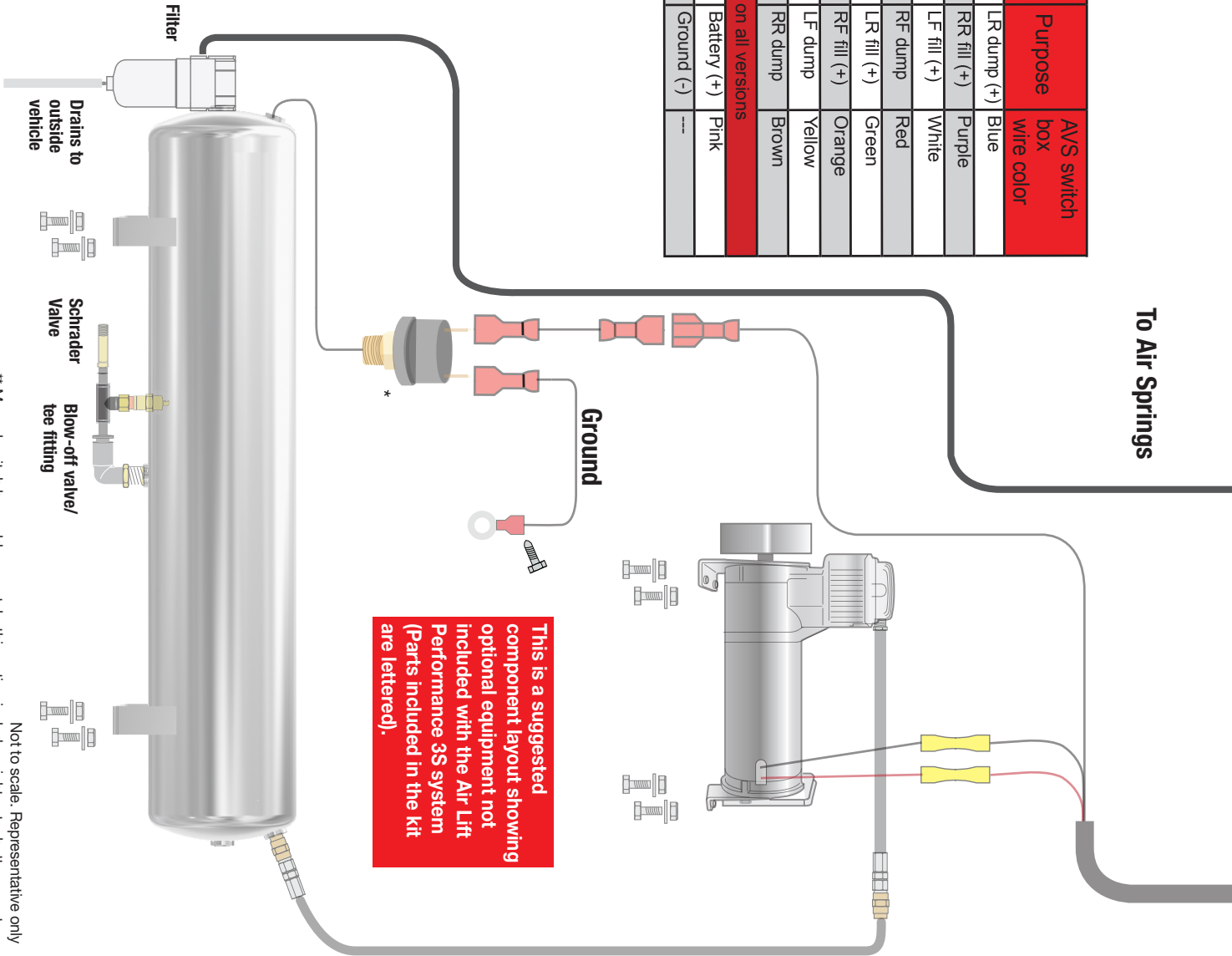
**APV2**



Kit: 27715 3S 1/4" Manifold  
Kit: 27716 3S 3/8" Manifold

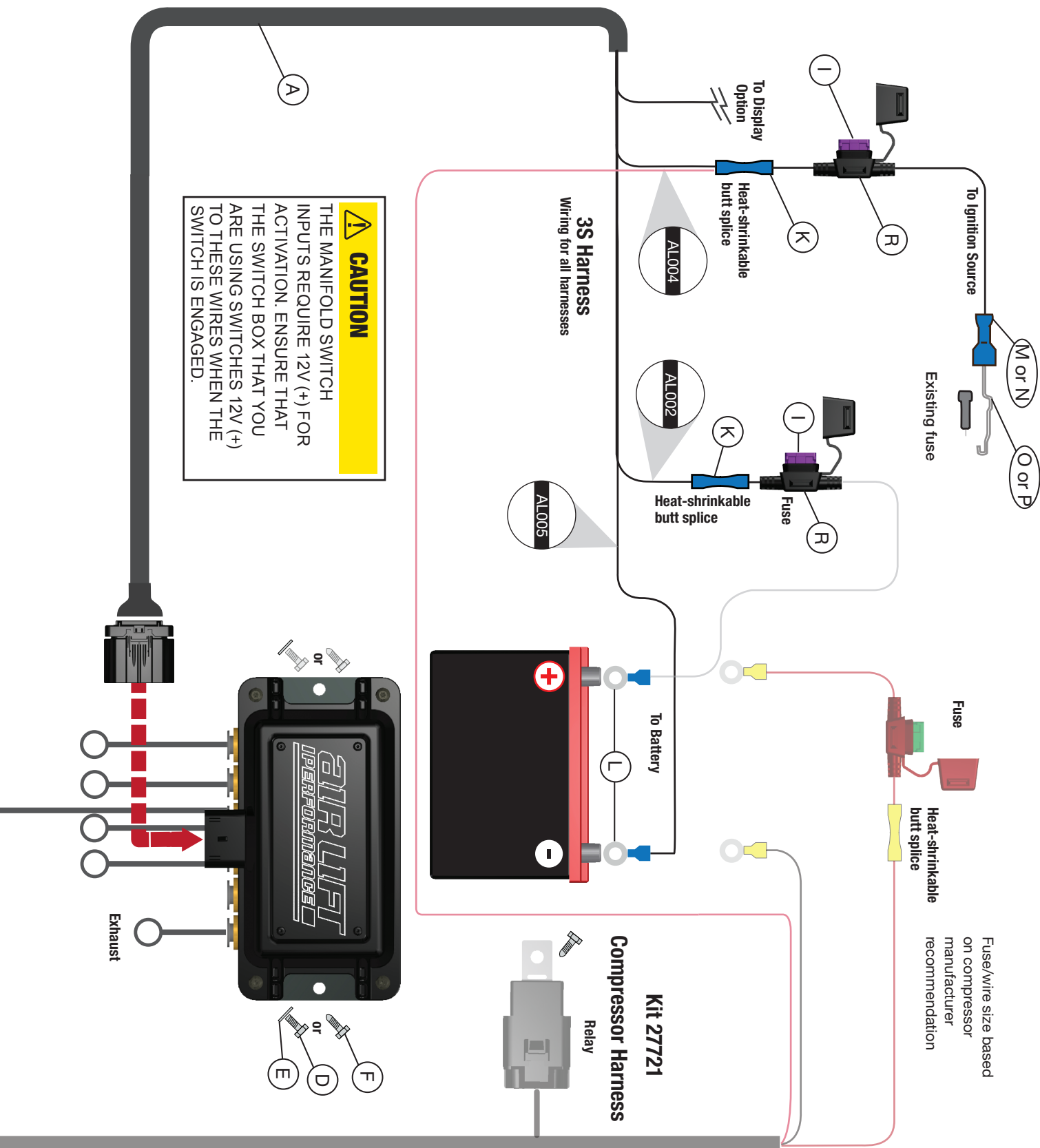
Wire	Purpose	AVS switch box wire color
AL035	LR dump (+)	Blue
AL036	RR fill (+)	Purple
AL026	LF fill (+)	White
AL029	RF dump	Red
AL030	LR fill (+)	Green
AL028	RF fill (+)	Orange
AL027	LF dump	Yellow
AL037	RR dump	Brown
Connect on all versions		
AL002	Battery (+)	Pink
AL005	Ground (-)	---

To Air Springs



This is a suggested component layout showing optional equipment not included with the Air Lift Performance 3S system (Parts included in the kit are lettered).

\* Manual switch box sold separately, this option includes eight extra butt connectors  
\*\* For ALP3S kits sold with the smartphone app only, the wiring harness includes battery, ignition and ground wires



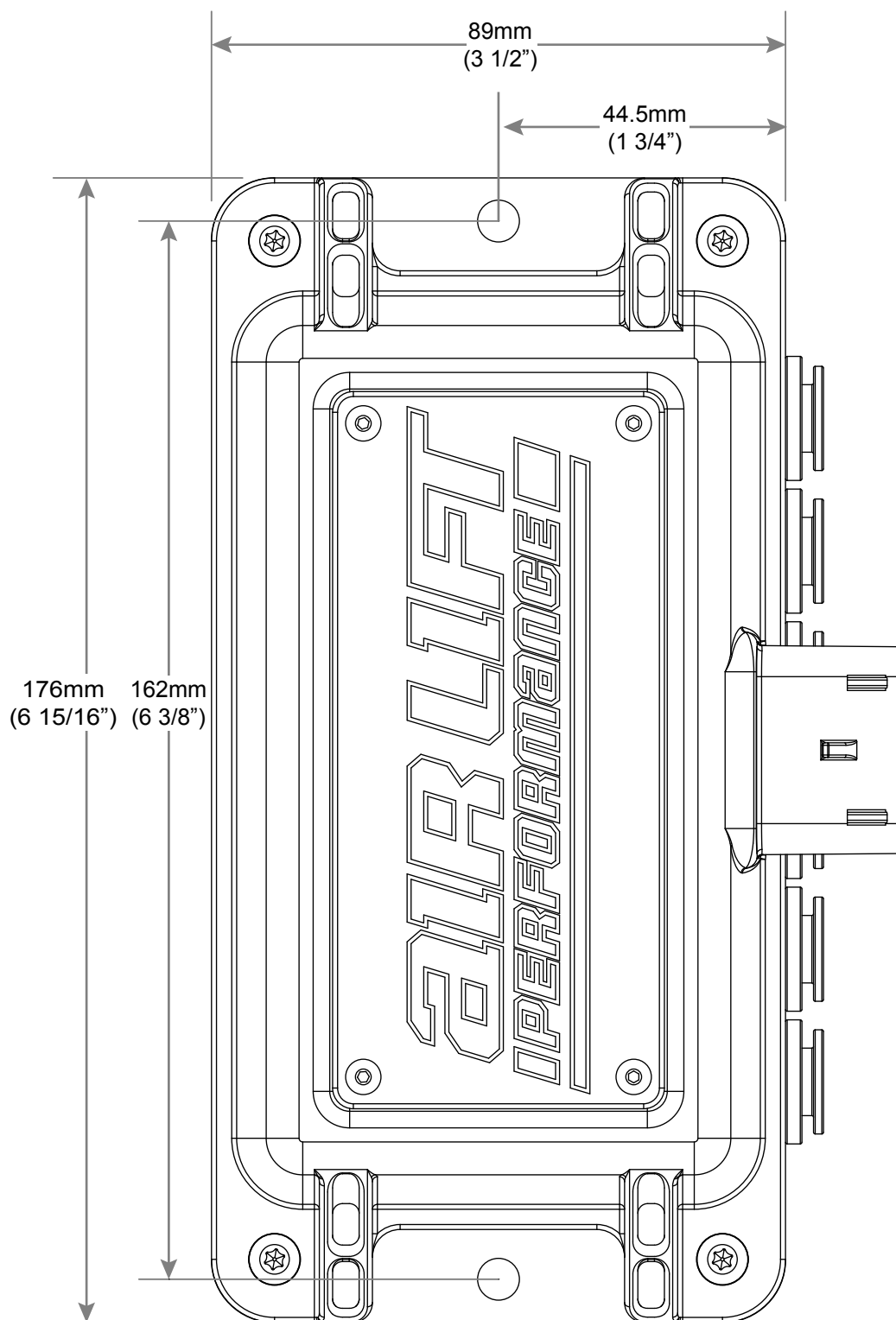
## Limited Warranty and Return Policy

Air Lift Company provides a Limited Warranty to the original purchaser of its Air Lift Performance products. The terms and conditions of the warranty for your product are set forth in the Limited Warranty and Return Policy, which is available at [www.airliftperformance.com/warranty](http://www.airliftperformance.com/warranty).

For additional warranty information contact Air Lift Company customer service.

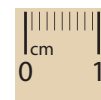


# Manifold Mounting Template

**CAUTION**

IMPORTANT: PRINT THIS MANUAL AT 100% SCALE. THIS MANUAL CONTAINS A DRILLING TEMPLATE, WHICH WOULD BE RENDERED INCORRECT IN DIMENSION IF PRINTED WITH ANY SCALING. USING AN INCORRECT TEMPLATE TO DRILL HOLES MAY CAUSE DAMAGE TO THE VEHICLE!

PLEASE REFER TO THE ONE-INCH OR 1CM SCALES AND USE A MEASURING TOOL TO CONFIRM THAT THE PRINTED SCALE MEASURES 1" OR 1CM TO VERIFY THAT THE TEMPLATE HAS BEEN PRINTED AT 100% SCALE. IF IT IS PRINTED AT ANY SCALE OTHER THAN 100%, YOU COULD END UP DRILLING IN THE WRONG LOCATIONS ON THE VEHICLE.



# Notes



## Need Help?

Contact Air Lift Company Customer Service at (800) 248-0892  
or email [service@airliftcompany.com](mailto:service@airliftcompany.com).

For calls outside the U.S. or Canada, dial (517) 322-2144.



*Thank you for purchasing Air Lift Performance products!*

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