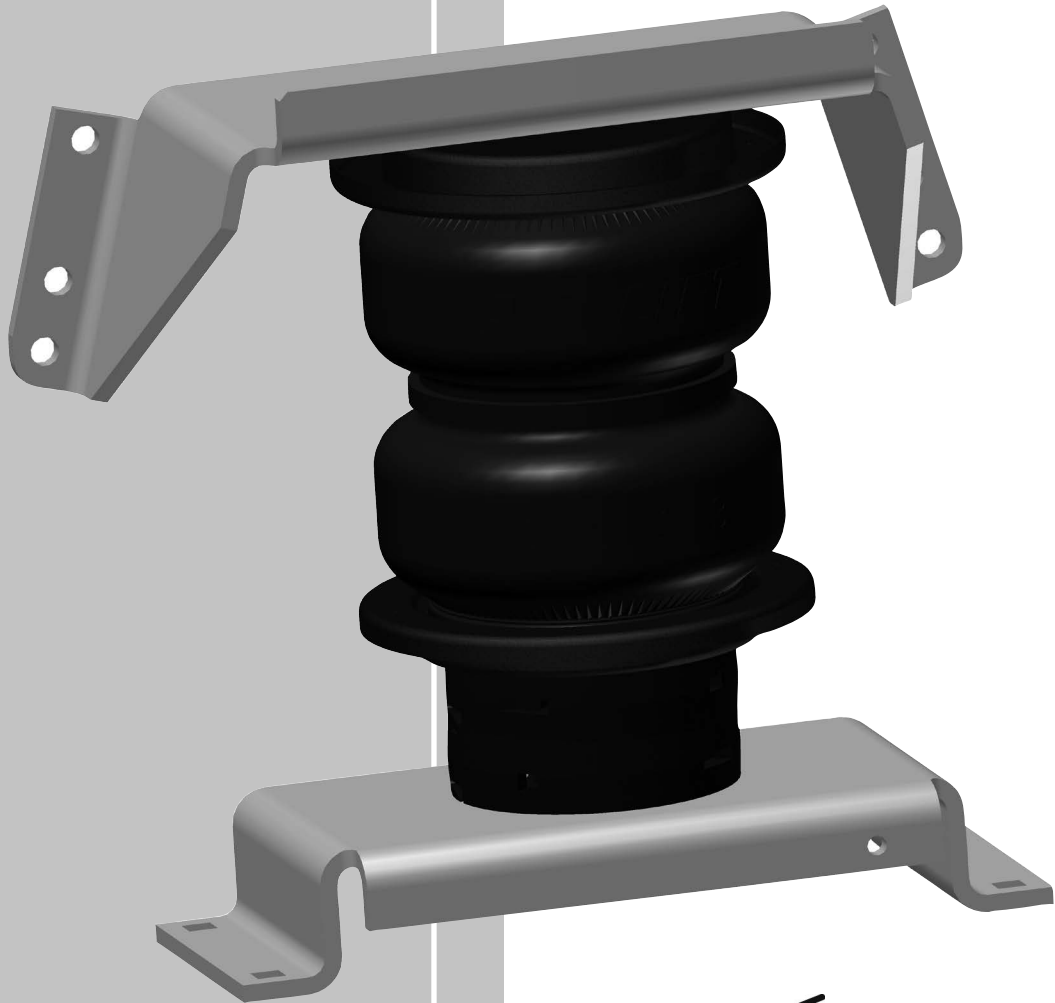


**Lock-N-Lift**  
by AIR LIFT®

**Kit 52130,  
52140, 52150**  
***Universal Air Spring  
Spacer System***



**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, maintenance and troubleshooting of the Lock-N-Lift universal air spring spacer 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, tool list, step-by-step installation information, maintenance tips, 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 or online at [www.airliftcompany.com](http://www.airliftcompany.com) for the latest version of this manual.

## 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.

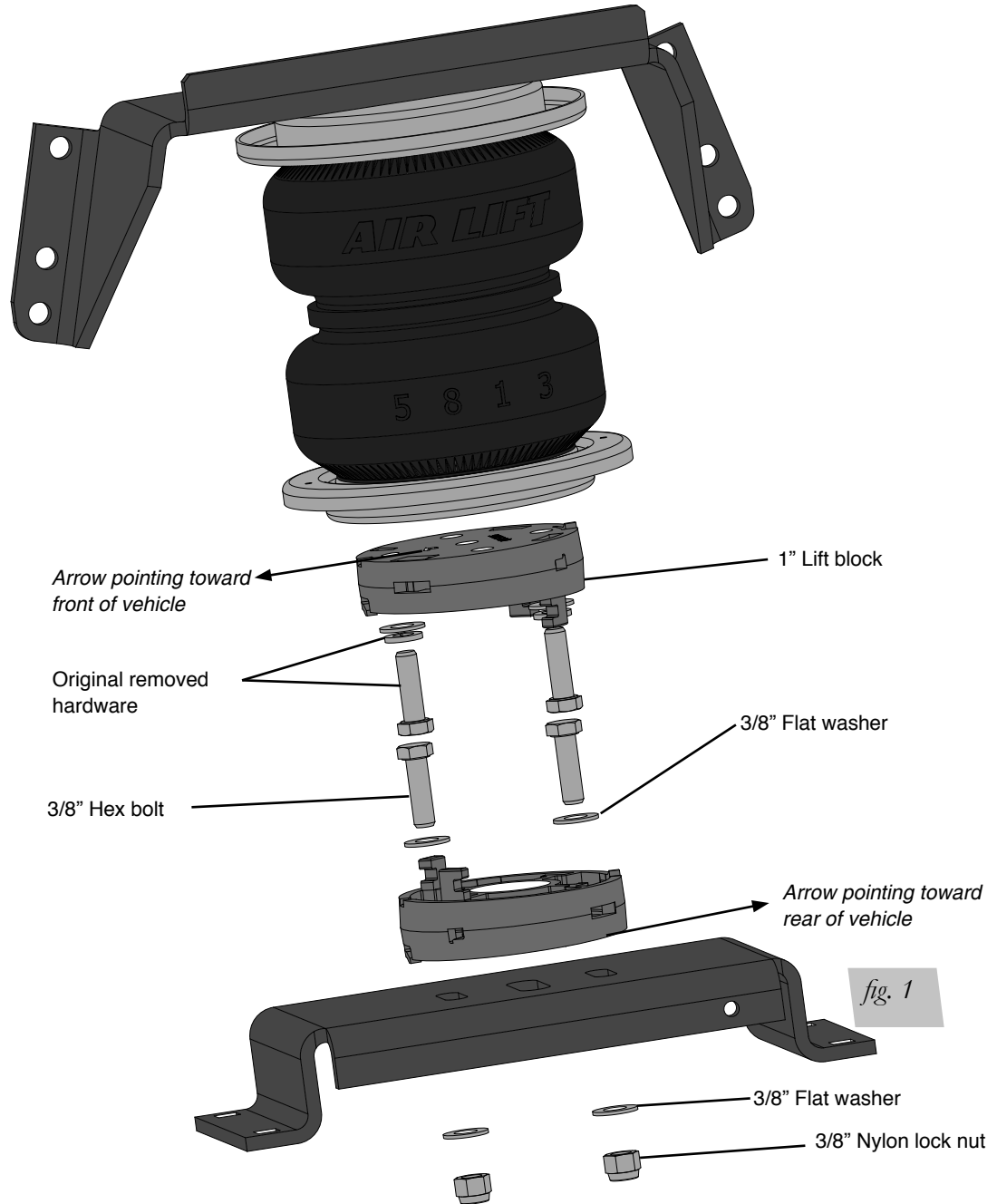
** CAUTION**

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 Diagram for 2" Lift System



## HARDWARE LIST

Item	Part #	Description.....Qty
A	52006	1" Lift block.....4
B	17188	3/8" Hex bolt.....4
C	18444	3/8" Flat washer .....8
D	18435	3/8" Nylon lock nut.....4
E	17404	3/8" Flat head bolt.....4
F	17203	3/8" Hex bolt (fine thread) .....4
G	18427	3/8" Lock washer.....4

## TOOLS LIST

Description.....	Qty
9/16" Socket .....	1
9/16" Wrench.....	1
3/8" Drive ratchet.....	1
7/64" or 3mm Allen wrench.....	2



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

# Installing the Lock-N-Lift System

REFER TO YOUR AIR SPRING INSTALLATION MANUAL FOR INSTALLING THE AIR SPRING KIT. YOUR AIR SPRING KIT WILL VARY FROM THE KIT SHOWN.

**NOTE**

*Do not assemble the lift blocks before indicated in the instructions.*

## PREPARING THE AIR SPRING FOR LIFT BLOCK INSTALLATION

1. Release any air from the air spring already installed.
2. Remove the fasteners that attach the air spring to the lower bracket.
3. Remove the lower bracket from the vehicle.

## INSTALLING THE LIFT BLOCKS

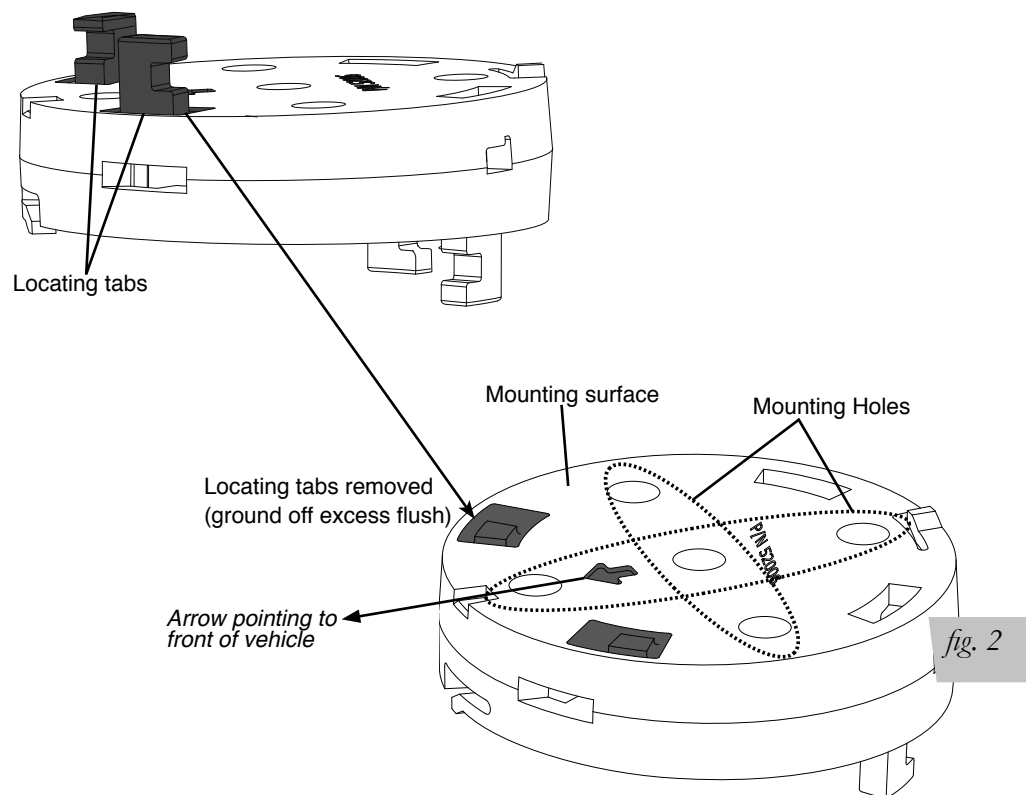
1. For a two block system, remove the locating tabs on the arrow side of each lift block. Remove the tabs with a hammer. The tabs must be removed flush or below the mounting surface (fig. 2).

**NOTE**

*It may be necessary to use a grinder to remove material after breaking tabs off with a hammer.*

**NOTE**

*It is only necessary to remove the tabs on the arrow side of two blocks for each air spring assembly.*



2. Fasten a lift block with the tabs removed to the bottom of the air spring (fig. 3). Use the mounting holes that allow the arrow to face toward the **front** of the vehicle (fig. 2).

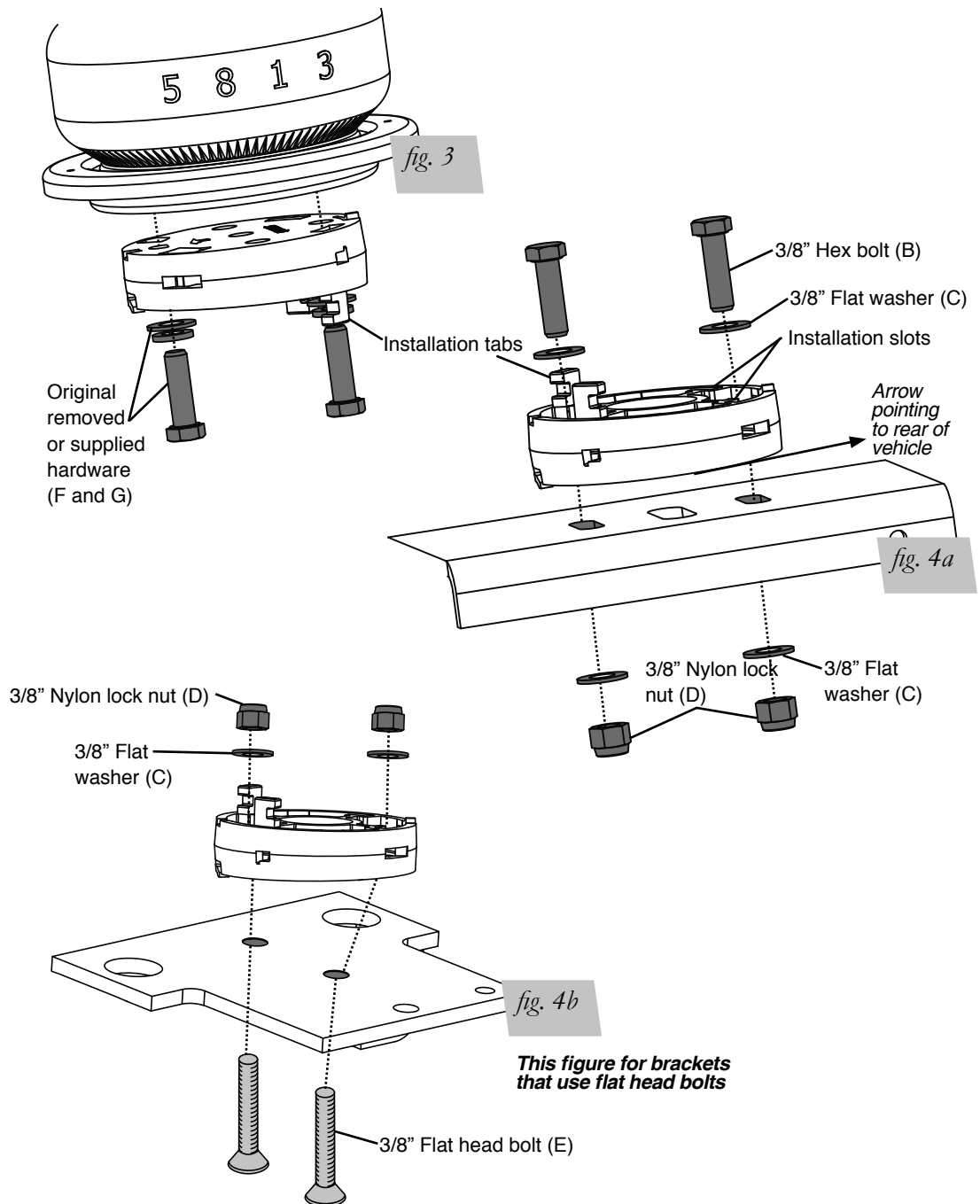
**NOTE**

*For lower brackets that had or require flat head bolts, use the fine thread 3/8" hex head bolts (F) and 3/8" lock washer (G) supplied to attach the lift block to the bellows.*

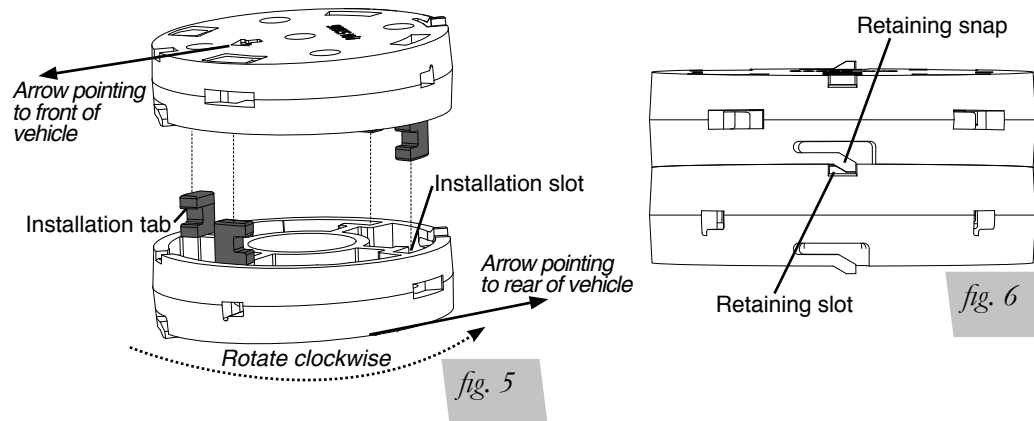
3. Install another lift block with the tabs removed to the lower bracket. Orientate the lift block on the lower bracket so that the installation tabs align with the installation slots when the lower bracket is located in its original mounting location (fig. 4a). Fasten the lift block to the lower bracket using the 3/8" hardware included (the arrow on the top surface of the lower spacer will face toward the **rear** of the vehicle).

**NOTE**

*For lower brackets that had or require flat head bolts, use the 3/8" flat head bolts (E) provided (fig. 4b) to attach the lift block to the lower bracket.*



4. Before attaching the lower bracket lift block assembly to the vehicle, insert the installation tabs into the installation slots and rotate the lower lift block assembly clockwise (fig. 5).
5. When the blocks are fully seated, the retaining snaps will lock into the retaining slots (fig. 6). CHECK BOTH SIDES OF THE LIFT BLOCK TO BE SURE THE RETAINING SNAPS ARE LOCKED IN PLACE.

**CAUTION**


6. Attach the lower bracket to the suspension in its original location. See the air spring kit installation manual if required.
7. Repeat steps 2 through 6 on the other side of the vehicle.

**CAUTION**

LIFT BLOCKS CAN NOT SERVE AS THE SUSPENSION LIMITER. A LIMITING STRAP MUST BE USED.

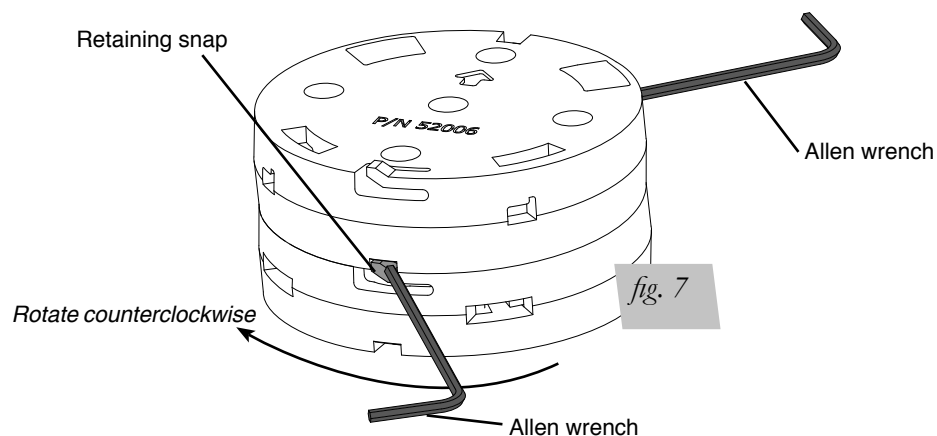
**IF DISASSEMBLY IS REQUIRED**
**CAUTION**

REPEATED DISASSEMBLY IS NOT RECOMMENDED.

**NOTE**

*Use either 7/64" or 3mm Allen wrenches or a combination of both to disassemble the lift blocks.*

1. Insert an Allen wrench into both retaining slots by pushing the wrench up the ramp of the retaining snap (fig. 7). This will separate the snaps from the mating block and the wrenches will be held in place by the snap.
2. Now take hold of each block and rotate the lower lift block assembly counterclockwise.



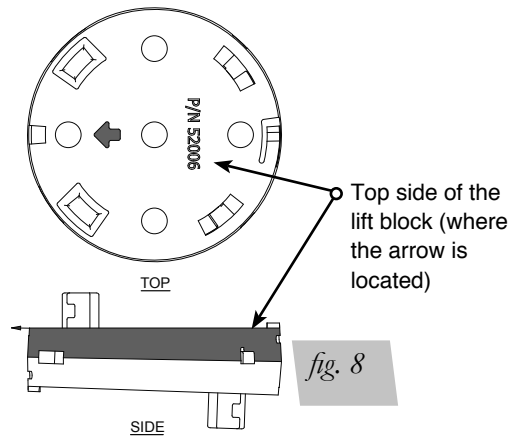


## ADDING ADDITIONAL LIFT BLOCKS

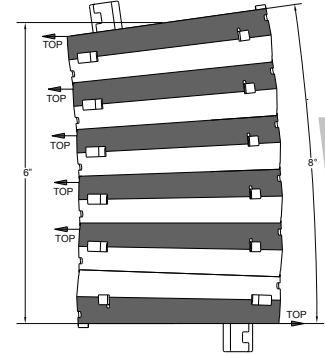
1. A variety of angles and heights can be achieved by adding additional blocks in differing orientations. In figure 8, the top surface of a lift block is identified. Shown below are diagrams of a 4" and 6" system with parallel surfaces and surfaces at a 4 degree angle. An 8 degree assembly with a six inch lift is also possible, but **not recommended** (fig. 9). Figure 10 shows the preferred installation method with a 4" and 6" straight assembly. Figure 11 shows the 4 degree assembly for a 4" and 6" lift block system.

**NOTE**

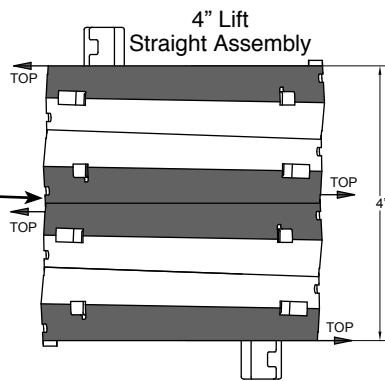
*It may take significant force to lock the two lift blocks together in the top-to-top position. It may be necessary to use a table top or other hard surface to aid in pushing the lift blocks together.*



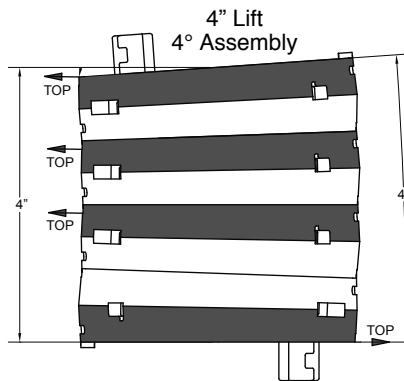
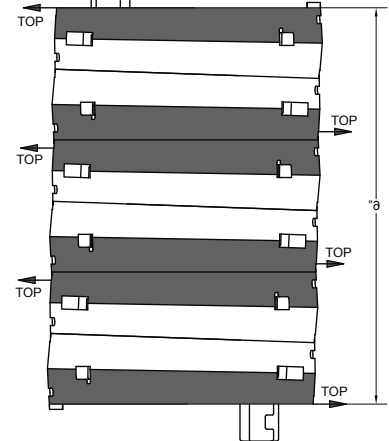
6" Lift  
8° Assembly - Not Recommended



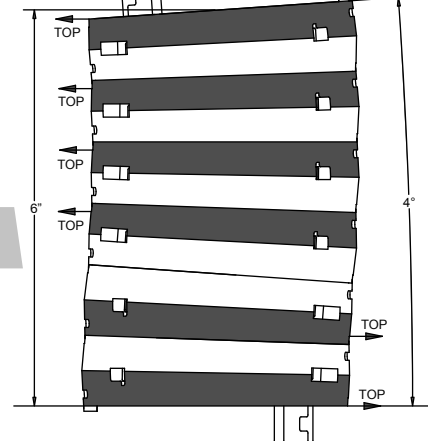
*It may take significant force to lock the two lift blocks together in the top-to-top position.*



6" Lift  
Straight Assembly



6" Lift  
4° Assembly



# Limited Warranty and Return Policy

## WHAT THIS WARRANTY COVERS

Air Lift Company provides a warranty to the original purchaser of its Load Support Products, for the periods of time listed below, by product line, 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 below.

## WHAT THIS WARRANTY DOES NOT COVER

The warranty does not apply to products that have been improperly applied, improperly installed, or which have not been maintained in accordance with installation instructions furnished with all products. This warranty does not apply and is void if damage or failure is caused by: accident, abuse, misuse (including but not limited to racing or off-road activities or commercial use), abnormal use, faulty installation, liquid contact, fire, earthquake or other external cause; operating the product outside Air Lift Company's instructions, specifications or guidelines; or service, alteration, maintenance or repairs performed by anyone other than Air Lift Company to the product from its purchased condition. This warranty also does not apply to: consumable parts, such as batteries; cosmetic damage, including but not limited to scratches or dents; defects caused by normal wear and tear or otherwise due to the normal aging of the product, or if any serial or identification number has been removed or defaced from 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.

## LIMITATION OF LIABILITY

To the extent permitted by law, this warranty and the remedies set forth herein are exclusive and in lieu of all other warranties, remedies and conditions, whether oral, written, statutory, express or implied. AIR LIFT COMPANY DISCLAIMS ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS TO THE EXTENT PERMITTED BY LAW. To the extent such warranties cannot be disclaimed, such implied warranties shall apply only for the warranty period specified above. Please note that some states do not allow limitation on how long an implied warranty (or condition) lasts. So the above limitation may not apply to you.

Except as provided in this warranty and to the extent permitted by law, Air Lift Company shall not be liable for any direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or arising in connection with the sale, use or repair of air lift products, or under any other legal theory, including but not limited to loss of use, loss of revenue, loss of actual or anticipated profits, loss of the use of money, loss of business, loss of opportunity, loss of goodwill, and loss of reputation. Air Lift Company's maximum liability shall not in any case exceed the purchase price paid by you for the Air Lift product. Please note that some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## HOW TO GET SERVICE

If a defect in workmanship or materials causes your Air Lift product to become inoperable within the warranty period, before returning any defective product, call Air Lift Company at (800) 248-0892 in the U.S. and Canada (elsewhere, (517) 322-2144) to obtain a Returned Materials Authorization (RMA) number. The consumer shall be responsible for removing (labor charges) the defective product from the vehicle and returning it, shipping costs prepaid, to Air Lift Company for verification. Returns to Air Lift Company must be postage prepaid and sent to: Air Lift Company • 2727 Snow Road • Lansing, MI • 48917. You must prove to the satisfaction of Air Lift Company the date of original purchase of your Air Lift product. You must also enclose the RMA number and a return address. A minimum \$10 shipping and handling charge will apply to all warranty claims. You must also pack the product to minimize the risk of it being damaged in transit. If we receive a product in damaged condition as the result of shipping, we will notify you and you must seek a claim with the shipper.

## WHAT AIR LIFT COMPANY WILL DO

If you submit a valid claim to Air Lift Company during the warranty period, Air Lift Company will, at its option, repair your Air Lift product or furnish you with a new or rebuilt product. Air Lift Company will not reimburse you for repairs or replacement parts provided by other parties. Your repaired or replacement Air Lift product will be returned to you (subject to payment of the required warranty claim shipping and handling charge) and it will be covered under the warranty for the balance of the warranty period, if any. When a product or part is replaced, any replacement item becomes your property and the replaced item becomes property of Air Lift Company. You are responsible for installation/reinstallation (labor charges) of the product.

## HOW THE LAW RELATES TO THIS WARRANTY

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. By this warranty, Air Lift Company does not limit or exclude your rights except as allowed by law. To fully understand your rights, you should consult the laws of your state.

## SPECIFIC LOAD SUPPORT WARRANTY PERIODS BY PRODUCT LINE

LoadLifter 5000™ Ultimate.....	Lifetime Limited	WirelessAIR™.....	2 Year Limited
LoadLifter 5000™.....	Lifetime Limited	WirelessONE™.....	2 Year Limited
RideControl™.....	Lifetime Limited	LoadController™ Single and Dual.....	2 Year Limited
Air Lift 1000™.....	Lifetime Limited	LoadController™ I and II.....	2 Year Limited
AirCell™.....	Lifetime Limited	SmartAir™ II.....	2 Year Limited
SlamAir™.....	Lifetime Limited	Other Accessories.....	2 Year Limited

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# 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. 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](mailto:sales@airliftcompany.com) or on the web at [www.airliftcompany.com](http://www.airliftcompany.com).

## **Need Help?**

Contact our customer service department by calling (800) 248-0892, Monday through Friday. 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](http://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](http://www.airliftcompany.com)

Printed in  
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