




# LoadController Kit 25655 Single Gauge Controller Installation Guide

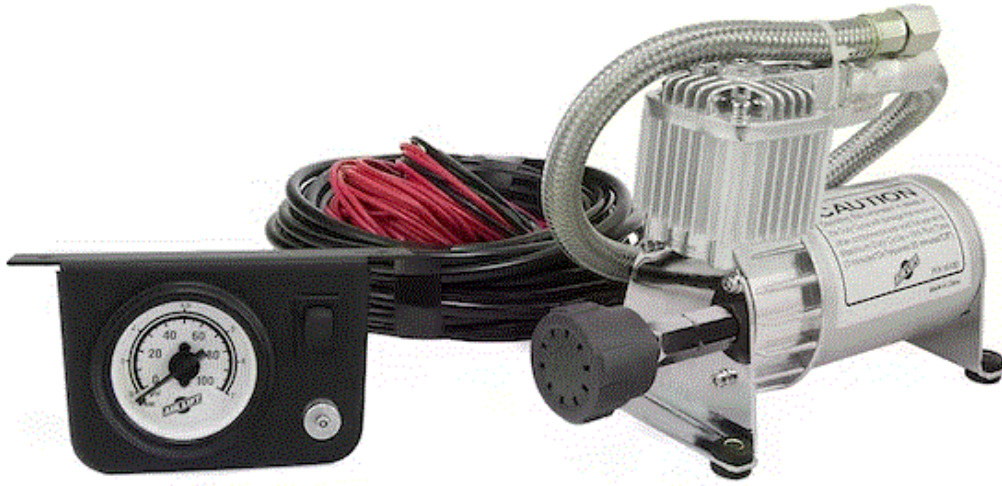
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# LoadController™

**LoadController Kit 25655 Single Gauge Controller**



## Product Information

**Product Name:** Kit 25655 Single Gauge Controller

**Manufacturer:** Air Lift Company

**Purpose:** The LoadController I system is designed to assist with the installation, maintenance, and troubleshooting of a vehicle's air suspension system.

**Installation Guide:** The installation guide provides detailed instructions on how to install the LoadController I system, including a hardware list, tool list, step-by-step installation information, maintenance guidelines, and operating tips. **Warranty and Returns Policy:** The warranty and returns policy provides information on the terms and conditions of the product warranty and the process for returning the product if needed. **Contact Information:** For the latest version of the manual or for any inquiries or support, you can contact Air Lift Company at (800) 248-0892 or visit their website at [www.airliftcompany.com](http://www.airliftcompany.com).

## Product Usage Instructions

1. Read the entire installation guide before starting the installation or performing any maintenance, service, or repair.
2. Check your vehicle's owner's manual to determine the maximum load listed for your vehicle. Do not exceed this maximum load.
3. Ensure that you have all the necessary tools and hardware listed in the installation guide.
4. Follow the step-by-step installation instructions provided in the guide to install the LoadController I system.
5. Refer to the maintenance guidelines in the guide to properly maintain the system.
6. If you encounter any issues or need troubleshooting assistance, refer to the troubleshooting section in the guide or contact Air Lift Company for support.

**Note:** The installation of this kit does not alter the Gross Vehicle Weight Rating (GVWR) or payload of the vehicle. It is important to follow the safety guidelines and weight limits specified in your vehicle's owner's manual to ensure safe operation.

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.

## Introduction

- The purpose of this publication is to assist with the installation, maintenance and troubleshooting of the

LoadController I 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 guidelines, and operating tips.
- Air Lift Company reserves the right to make changes and improvements to its products and publications at any time. For the latest version of this manual, contact Air Lift Company at (800) 248-0892 or visit our website at [www.airliftcompany.com](http://www.airliftcompany.com).

## 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. The information which is highlighted by one of these notations must be observed to help minimize the 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 THAT WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.
- **WARNING** INDICATES HAZARDS OR UNSAFE PRACTICES THAT COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.
- **CAUTION** INDICATES HAZARDS OR UNSAFE PRACTICES THAT COULD RESULT IN DAMAGE TO THE MACHINE OR MINOR PERSONAL INJURY.

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

## Installation Diagram

## NOTES

- This installation should be done after the Air Spring kit has been installed.
- All preassembled gauge panels have been 100% leak and function tested. Do not attempt to tighten, loosen, or adjust any fittings or connections. This will likely cause a leak or malfunction and void the warranty.

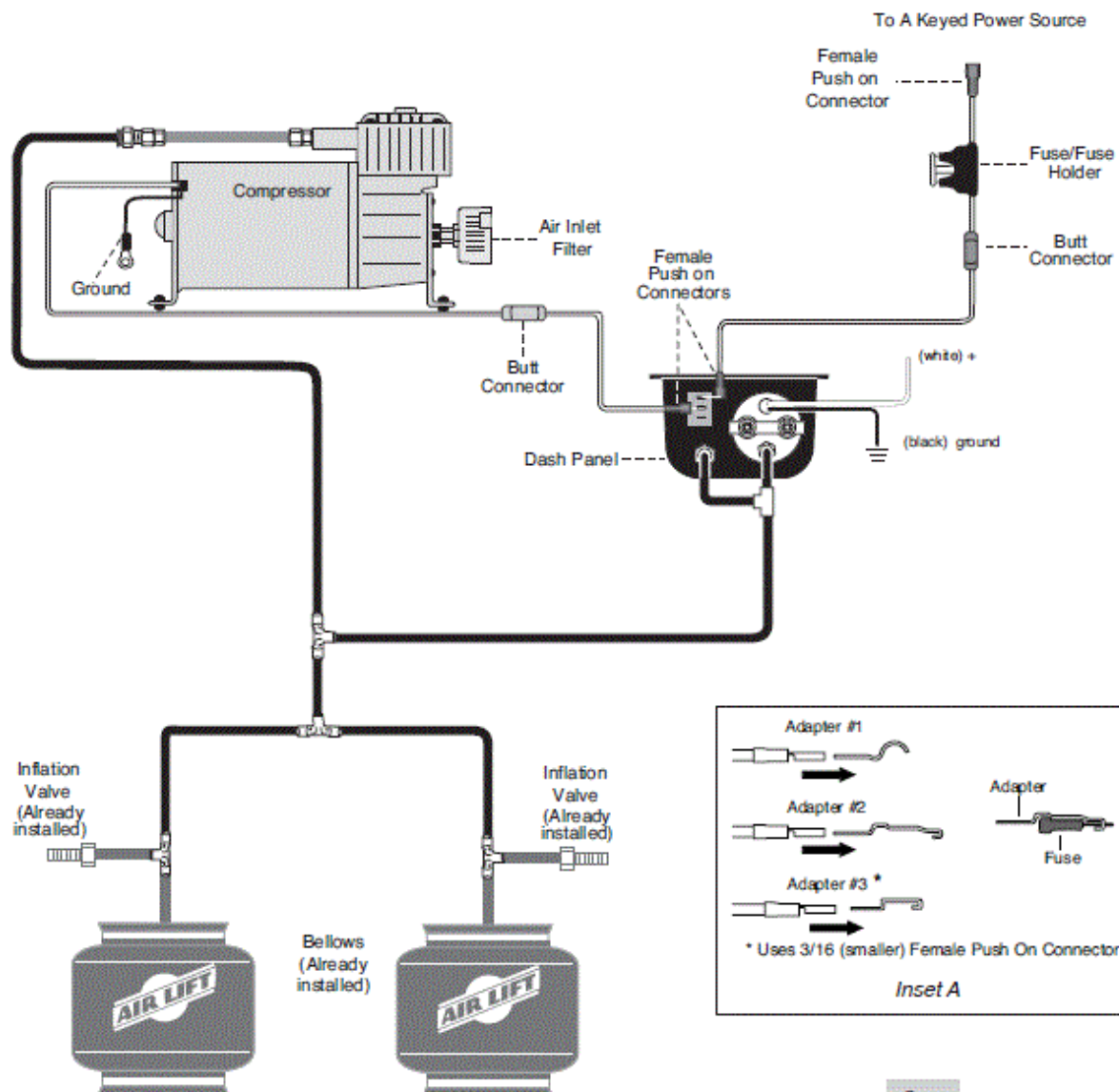


fig. 1

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

## Installing the LoadController I System

### RECOMMENDED COMPRESSOR LOCATIONS

#### Important

LOCATE THE COMPRESSOR IN A DRY, PROTECTED AREA ON THE VEHICLE.

DIRECT SPLASH OR EXCESSIVE MOISTURE CAN DAMAGE THE COMPRESSOR AND CAUSE SYSTEM FAILURE.

**Disclaimer:** If you choose to mount the compressor outside the vehicle please keep in mind the compressor body must be shielded from direct splash and the intake should be snorkeled inside the vehicle. If the compressor does not include a remote mount air filter or if mounting the compressor outside the vehicle, make sure to orient the compressor intake filter so that all moisture can easily drain.

Please also remember

- To avoid high-heat environments
- To avoid mounting the compressor under the hood.
- To check to be sure the compressor harness #2 will reach the compressor and connect to harness #1.

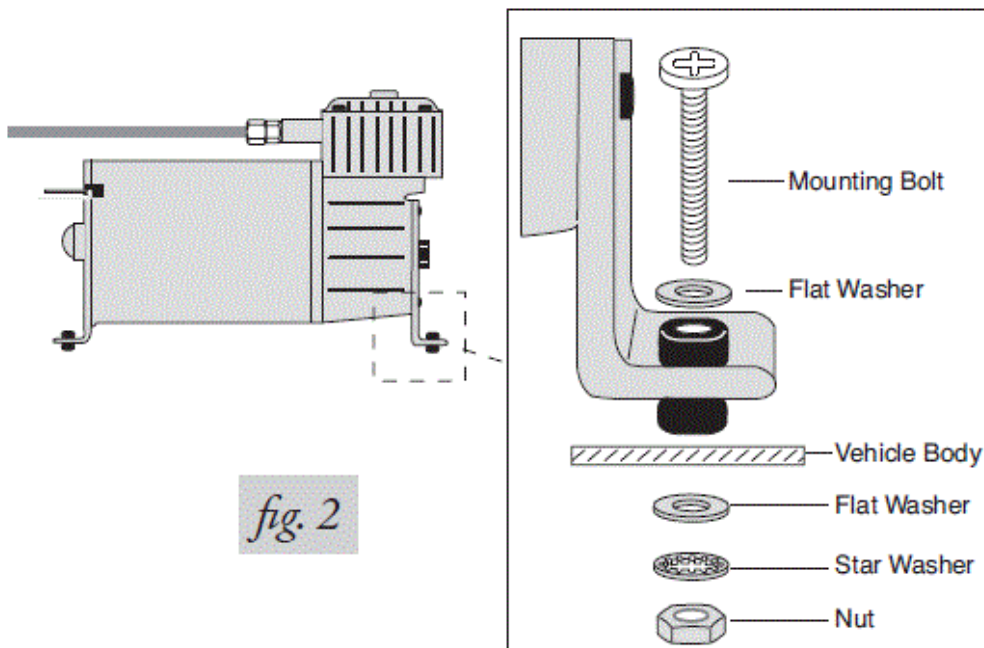
The compressor can be mounted in any position — vertical, upside down, sideways, etc. (please refer to the instruction manual).

## MOUNTING THE COMPRESSOR

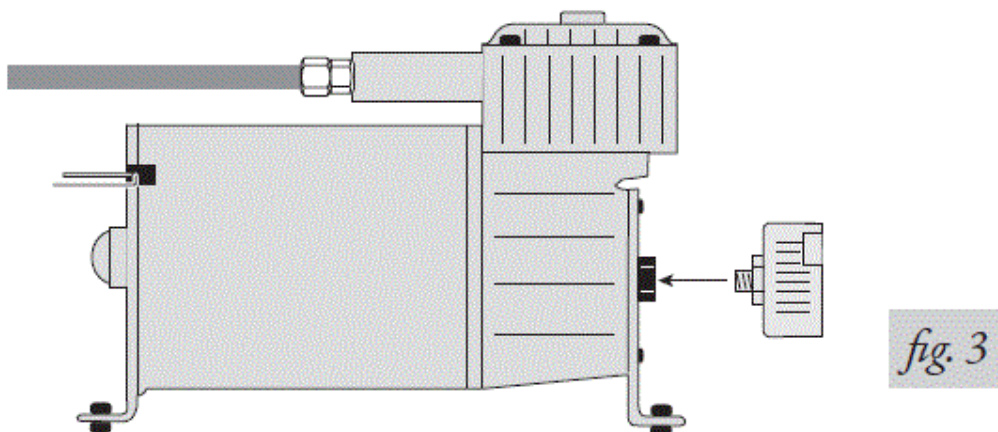
1. Select a rigid convenient mounting location on the frame or in a storage area. The location selected should shield the compressor from the elements.

**CAUTION** BE CAREFUL TO SHIELD THE COMPRESSOR FROM HEAT SOURCES. DO NOT MOUNT THE COMPRESSOR IN THE ENGINE COMPARTMENT. DOING SO CAN CAUSE PREMATURE FAILURE OF THE COMPRESSOR.

2. Using the mounting holes on the compressor legs as a guide, mark the mounting hole locations.
3. Remove the compressor and center punch and drill four 13/64" diameter holes.
4. Use the supplied screws and nuts to mount the compressor (Figure 2).

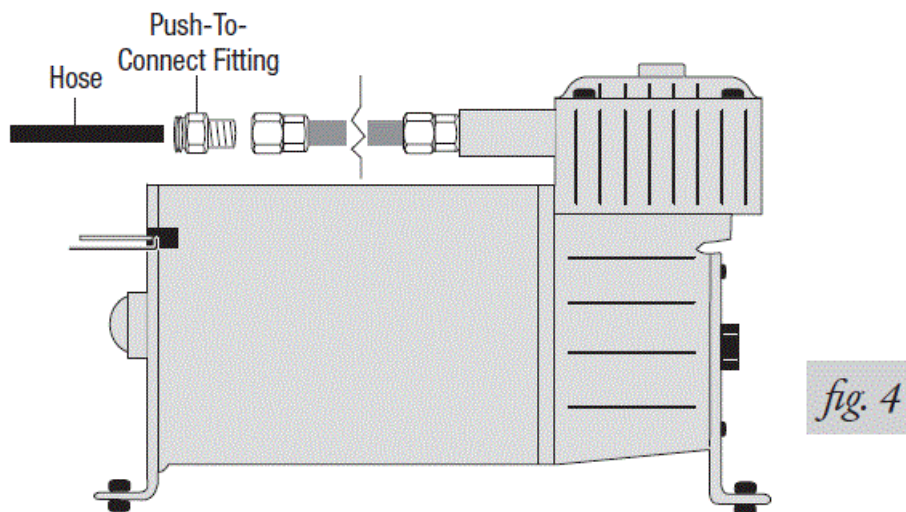


5. Attach the air filter to the inlet port at the back of the compressor (Figure 3).



6. Install the fitting into the pressure port side of the leader hose (Figure 4).





## MOUNTING THE DASH PANEL

1. Select a convenient, sturdy mounting location for the gauge panel.
2. Using the gauge panel mounting bracket as a template, position the gauge panel to the mounting surface.
3. Secure with two self-tapping screws.

## WIRING THE ELECTRICAL CONNECTIONS

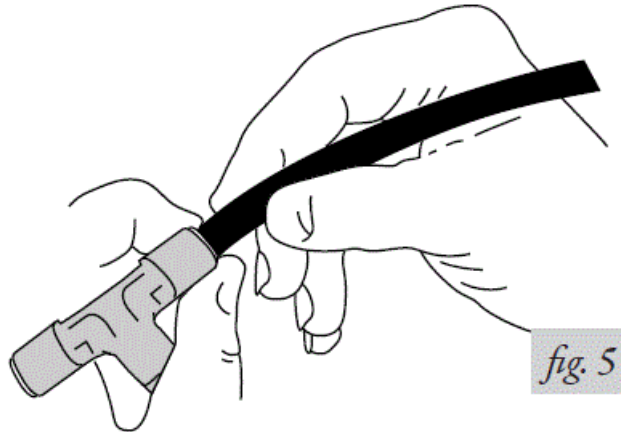
1. Install the yellow ring terminal to the compressor motor ground (black) wire. Select a good ground location, and attach the ring terminal with the self-tapping screw provided.
2. Determine the length of supplied (red) wire required to connect the dash panel to the compressor.
3. Connect the (red) wire from the panel to the (red) wire on the compressor using a blue butt connector (Figure 1). Connect the other end of the wire to the push switch using the blue 3/16 female push-on connector. With your thumb against the front side of the switch, push the connector onto one of the terminals on the back of the ON/OFF switch on the gauge panel
4. Install the 30 amp fuse and fuse holder assembly. At one end attach a female push-on connector and on the other end a blue butt connector. Connect the fuse assembly to the accessory circuit in the fuse block. Use a test light to determine which open terminal,(accessory, etc.) works only when the ignition is in the 'on' or accessory position. **NOTE:** Connect the adapter to the 'Hot' side of the fuse (use a test light to determine). Connection to the fuse terminal will depend on what type of fuse your vehicle uses. If the vehicle uses the barrel-type fuse, use adapter #1. If the vehicle uses the standard spade-type fuses, use adapter #2. Many late-model vehicles use a smaller spade-type fuse which requires adapter #3. See Inset A on the first page.
5. Determine the length of the supplied (red) wire required to connect the dash panel to the fuse assembly. Cut and crimp the wire into the butt connector (Fig. 1). Connect the other end of the wire to the push switch using the blue 3/16" female push-on connector. With your thumb against the front side of the switch, push the connector onto the remaining terminal on the back of the ON/OFF switch on the gauge panel.
6. Route the white wire for the illuminated gauge to an accessory power source. Attach the black wire to an adequate ground.

## INSTALLING THE AIRLINE

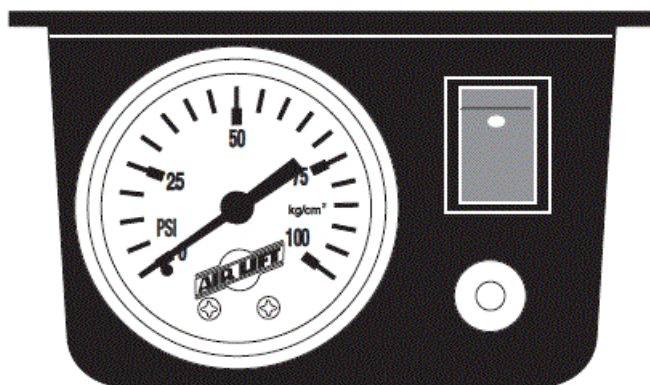
1. Remove the air pressure from the air springs by taking the core out of the inflation valve, or by using a tire

gauge to depress the core to bleed off the air pressure.

2. Use a standard tube cutter, a razor blade, or a very sharp knife to cut the airline between the air spring and the inflation valve. A clean square cut will protect against leaks. Install a tee. Repeat this step for the other side (Fig. 5). Cut off the excess airline squarely. Install the air line into the fitting. This is a selflocking fitting. Push and slightly turn the cut end of the air line into the fitting as far as it will go. You will hear or feel a definite click when the air line is seated. Air line should go in 9/16". The airline is now installed.



3. Route the air line between the two tees and connect to the last opening in each tee.  
**NOTE** Keep the air line away from heat (exhaust system, etc.) and moving chassis components. Secure air line to the frame with nylon tie straps provided.
4. Determine the location of the third tee. Cut the air line between the first two tees and install a third (Figs. 1 & 5).
5. Measure the distance from the open tee to the compressor. Cut the air line to the proper length and install on the last leg of the tee installed between the air springs. Route the air line from the tee to the compressor along the frame and secure it with nylon tie straps.
6. Install the air line into the air line fitting previously installed on the compressor (Fig. 4).
7. Determine the closest and easiest area to connect the gauge panel to the air line between the compressor and air springs. Measure the distance between these two points and cut the air line and install the last tee (Figs. 1 & 5).
8. Attach air line to the last leg of this tee and route the air line to the gauge panel. Attach the air line to the panel sliding it onto the barbed fitting on the panel until it fully covers all the barbs.
9. Turn on the ignition switch. Push on/off switch and observe the pressure increase on the air gauge (Fig. 6). Inflate to the maximum recommended pressure. Inspect each connection with a soap and water solution. If a leak is found in the fittings, reduce air pressure to zero and tighten threaded connections or remove air line, cut off one inch and reattach.



## INFLATION CONTROL

1. Your vehicle is equipped with rear air springs. The following procedure is a guide to assist you in leveling your vehicle to provide the best possible ride and handling.
2. Fill the air springs to the maximum recommended pressure. The pressure can be increased from the dash control or the inflation valves located just ahead of the rear wheels. Generally, the vehicle will ride best when the rear springs are slightly arched (if equipped with leaf springs). Start with higher pressure and decrease in five-pound increments to determine the best ride and handling for your particular vehicle. Increases in pressure can be made to compensate for additional load and trailers, etc. Higher pressures can be used when the vehicle is in storage to relieve the leaf springs.

## OPERATING INSTRUCTIONS

1. **IMPORTANT:** Do not exceed the recommended duty cycle of 15% (3 minutes on and 20 minutes off). Not complying with the recommended duty cycle may cause premature failure of the compressor.
2. The air springs should be inflated to the specified air pressure as discussed in the air spring inflation procedure.
3. When ever load and weight distribution change, simply adjust the pressure in the air springs to maintain a level vehicle. The air pressure is manually controlled by the control panel located on the dash.
4. To inflate the air springs and raise the vehicle, depress the switch on the control panel. The compressor will turn on automatically to increase the pressure as indicated on the gauge. Once the desired pressure is reached, release the switch and the compressor will shut off.
5. To deflate the air springs, depress the button below the on/off switch (Figure 6).

## TROUBLESHOOTING

1. In the event that the compressor stops running, allow the compressor to cool down before running again and provide adequate time for the thermal breaker to reset before trying to start the compressor again.
2. Check the inflation pressure weekly, air spring bellows will permeate (loss of pressure through the rubber wall) at the approximate rate of 3ñ4 p.s.i. per week. Leakage at a higher rate indicates a leak. In order to find a possible leak, inflate the system to the maximum recommended pressure and spray all fittings with a soapy water solution.
  - a. Check the inflation valve, including the valve core and airline connections.
  - b. Check the elbow fitting where threaded into the bellows (all threaded connections must have pipe sealant applied) and the airline connection.

## CAUTION

- DO NOT EXCEED THE RECOMMENDED DUTY CYCLE OF 15% (3 MINUTES ON, 20 MINUTES OFF). NOT COMPLYING WITH THE RECOMMENDED DUTY CYCLE MAY CAUSE PREMATURE FAILURE OF THE COMPRESSOR.
- DO NOT EXCEED THE VEHICLE MANUFACTURER'S MAXIMUM GROSS VEHICLE WEIGHT RATING (GVWR).

## 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.

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
- RideControl.....Lifetime Limited
- LoadLifter 5000\*.....Lifetime Limited
- SlamAir..... Lifetime Limited
- AirCell.....Lifetime Limited
- Lifestyle & Performance\*\* .....1 Year Limited
- LoadController/Single.....2 Year Limited
- LoadController/Dual.....2 Year Limited
- Load Controller (I).....2 Year Limited
- Load Controller (II)..... 2-Year Limited
- SmartAir.....2 Year Limited
- Wireless AIR..... 2 Year Limited
- WirelessONE.....2 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, or 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](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, 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/warranty](http://www.airliftcompany.com/warranty)


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)


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**California: WARNING:** Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Documents / Resources

	<p><a href="#">LoadController Kit 25655 Single Gauge Controller</a> [pdf] Installation Guide</p> <p>Kit 25655 Single Gauge Controller, Kit 25655, Single Gauge Controller, Gauge Controller, Controller</p>
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## References

-  [Air Lift® Air Springs | Air Suspension Kits, Air Ride Suspension & Air Bags](#)
-  [P65Warnings.ca.gov](http://P65Warnings.ca.gov)