

# Load**Lifter**<sup>®</sup> series Ride**Control<sup>®</sup>** Air Lift **1000** HD<sup>®</sup> Air Lift **1000**<sup>®</sup>





# Load Support User Guide

Which kit is on the vehicle?		<b>MY PRESSURE SETTINGS</b>	Left	Right	Both
LoadLifter 5000 Ultimate	LoadLifter 7500XL "5815" on	Camper _			
Plus Stainless steel roll plates, braided	side of air springs	Boat trailer _			
stainless steel air lines	-	Utility trailer			
-	RideControl Sleeve-style air springs	Work trailer			
LoadLifter 5000 Ultimate Black powder-					
coated steel roll plates	Air Lift 1000HD Black air				
<b>→</b>	springs inside coil springs				
LoadLifter 5000 Zinc-coated		Max pressure _			
steel roll plates	Air Lift 1000 Red air springs inside coil springs	Vehicle _	Ex. 2017 Fo	ord F-250 Sup	er Duty
<b>_</b>		Installed kit	Ex. LoadLif	ter 5000 Ultin	nate

# User Guide

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#### INTRODUCTION

Thank you for purchasing an Air Lift product. It is important to read and understand the entire User Guide before operating the Air Lift system.

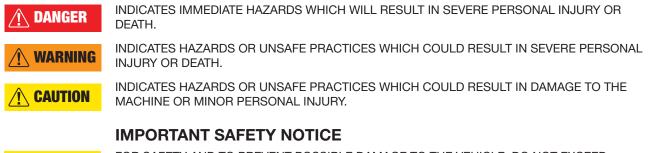
Air Lift Company reserves the right to make changes and improvements to its products and publications at any time.

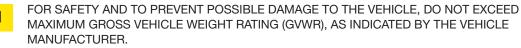
#### NOTATION EXPLANATION

This kit does not alter the gross vehicle weight rating (GVWR) or payload of the vehicle. Check the vehicle's safety compliance certification label or the owner's manual and do not exceed the maximum load listed for this vehicle.

**Gross vehicle weight rating (GVWR):** 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 vehicle is designed to carry. Payload is GVWR minus the base curb weight.







#### LOADLIFTER, RIDECONTROL PRESSURE SETTINGS

Minimum /	Air Pressure	Maximum Air Pressure*	
5 PSI (.34BAR)		100 PSI (7BAR)	
	FAILURE TO MAINTAIN CORRECT MINIMUM PRESSURE (OR PRESSURE PROPORTIONAL TO LOAD) COULD LEAD TO PREMATURE AIR SPRING		
	FAILURE AND WILL VOID THE WARRANTY.		



at all times \_34BAR

\* Check Installation Guide for maximum pressure for this kit.

#### **GUIDELINES FOR USE**

- 1. Check air pressure weekly.
- 2. Never inflate to more than 100 PSI (7BAR).
- 3. Operating the vehicle below the minimum air spring pressure will void the Air Lift warranty.
- 4. Always add pressure to the air springs in small quantities, checking the pressure frequently.
- 5. When increasing load, always adjust air pressure to maintain normal or desired ride height. Increase or decrease pressure from the system as necessary to attain normal ride height for optimal ride and handling.





#### AIR LIFT 1000HD, AIR LIFT 1000 PRESSURE SETTINGS

Minimum Air Pressure		Maximum Air Pressu	re*
5 PSI (.34BAR)		35 PSI (2.4BAR) OR 50 PSI (3.5BAF	
PRESSURE (OR PRESS		TAIN CORRECT MINIMUM RESSURE PROPORTIONAL TO AD TO PREMATURE AIR SPRIN L VOID THE WARRANTY.	

\* Check Installation Guide for maximum pressure for this kit.



pressure .34BAR at all times

### **GUIDELINES FOR USE**

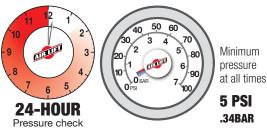
- 1. Check air pressure weekly.
- 2. Never inflate to more than the recommended maximum air pressure.
- 3. Operating the vehicle below the minimum air spring pressure will void the Air Lift warranty.
- 4. Always add air to springs in small quantities, checking the pressure frequently.
- 5. When increasing load, adjust air pressure to maintain normal ride height. Increase or decrease pressure from the system as necessary to attain normal ride height for optimal ride and handling.



Max **35 or 50 PSI** pressure **2.4 or 3.5BAR** 



#### **POST-INSTALLATION CHECKLIST**



- Overnight leak down test Recheck air pressure after the vehicle has been used for 24 hours. If the pressure has dropped more than 5 PSI (.34BAR), there could be a leak that may need to be fixed. See page 8 for tips on finding air leaks.
- □ Air pressure requirements It is important to understand the air pressure requirements of the air spring system. Regardless of load, the air pressure should be adjusted to maintain

#### **MAINTENANCE GUIDELINES**

 Periodically check the air spring system fasteners for tightness (torque specifications can be found in the Installation Guide). Also, check the air springs for any signs of rubbing. Realign the air spring components, if necessary. adequate ride height at all times while driving.

□ Thirty-day or 500mile (800km) test − Recheck the air spring system after 30 days or 500 miles (800km), whichever comes first. If any part shows signs of rubbing or abrasion, the source should be identified and moved, if possible. If it is not possible to relocate



the cause of the abrasion, the air spring may need to be remounted. If professionally installed, the installer should be consulted. Check all fasteners for tightness. Consult the installation guide for the kit for proper torque specifications if any fasteners have loosened.

- 2. On occasion, give the air springs a hard spray with water to remove mud or other debris.
- 3. Should it be necessary to raise the vehicle by the frame, make sure the system is at minimum pressure (5 PSI [.34BAR]) to reduce tension on air spring and kit components.



### FINDING AIR LEAKS

- 1. Inflate the air springs to 30 PSI (2.1BAR).
- Spray all connections with a solution of liquid dish soap and water. Wait 30 seconds and check for bubbles which indicate leaks.
- 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 air springs to the minimum pressure required to restore the system to normal ride height.



#### FIXING AIR LEAKS ON BARBED FITTINGS

- 1. If there is a leak at the Schrader valve, tighten the valve with a valve core tool.
- 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.
- 4. See "Cutting Air Lines," page 9. For push-to-connect (PTC) fittings and stainless steel braided air lines, see page 10.





#### **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.

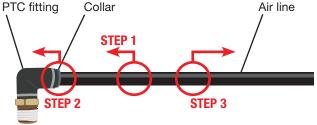




#### FIXING AIR LEAKS ON PTC FITTINGS

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).

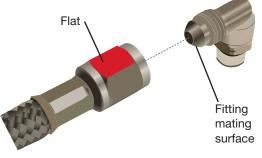
To reconnect, push the air line into the fitting and pull to verify a robust connection.

#### 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 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.

#### FIXING AIR LEAKS ON BRAIDED STAINLESS STEEL AIR LINES

- 1. Disconnect the air line where it is leaking.
- 2. Check the mating surface on the fitting for burrs and remove if possible. If there are dings or indentations on the fitting mating surface, it may continue to leak and may need to replaced.
- To re-assemble, tighten the fitting one flat or 1/6 of a full rotation — past finger tight.
- 4. Contact Air Lift customer service if the fitting continues to leak.



Bad headlight aim

## ADJUSTING AIR PRESSURE

The air springs should be adjusted for three factors: stability, level vehicle, ride comfort,

#### Stability

Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess. Tuning out these problems usually requires an increase in pressure.

#### Level vehicle

Use air pressure to raise the end of the vehicle that is squatting back to its normal ride height. It may be necessary to apply more air pressure to one side if the load is uneven. If the vehicle has a single-path air control system, redistribute the load side to side.

#### **Ride comfort**

If the vehicle has a rough ride, it may be due to either too much air pressure or not enough. Experiment with different ride pressures, so long as it doesn't impact vehicle stability.

- If the vehicle feels like it is bottoming out, increase air pressure.
- If the headlights are aimed too high, try increasing air pressure in the rear air springs.
- · When in doubt, add air.
- If the front of the vehicle dives while braking, increase the pressure in the front air springs, if equipped.













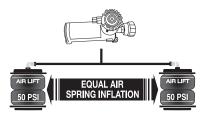
#### CHOOSING THE RIGHT ON-BOARD AIR COMPRESSOR SYSTEM

Add an on-board air compressor system to inflate and deflate the air springs with the touch of a button — from inside of the vehicle or outside (wireless systems).

- For convenient, on-the-go control of the air springs, add an Air Lift on-board air compressor system.
- Air Lift on-board air compressor systems eliminate the search for gas stations that have a working compressor, saving time, energy and money.
- All systems include a compressor, controller and all parts needed for easy installation.
- 1. Choose single- or dual-path inflation
- 2. Choose wireless or analog or automatic control
  - Wireless: Control the air springs from inside or outside the vehicle. Easiest installation no wires or hoses to the cab.
  - Automatic: Air spring pressure is automatically adjusted based on ride height.
  - **Analog:** In-cab control of the air springs. Economically priced.
- 3. Choose heavy- or standard-duty compressor
  - Standard duty: A standard-duty compressor will work well for most customers who use their system on an intermittent basis.
  - **Heavy duty:** For daily use, consider the heavy-duty compressor it inflates faster and more quietly than the standard compressor.



**Dual-path systems:** Air springs are controlled separately to allow for different air pressure from side to side. Perfect for uneven or top-heavy loads.



**Single-path systems:** Two springs will inflate at the same time. Good for loads that are evenly distributed from left to right.



# **ON-BOARD AIR COMPRESSOR SYSTEMS**

WIRELESS CONTROL



WirelessONE No wires or hoses to the inside of the cab Single Path P/N 25870

### AUTOMATIC LOAD LEVELING





WirelessAIR<sup>™</sup> Premium system for independent control of each side Dual Path **P/N 72000** 

## ANALOG LOAD LEVELING





#### **TROUBLESHOOTING GUIDE**

PROBLEM	CAUSE	SOLUTION
System won't maintain pressure overnight	Improperly installed air line, air line has holes or cracks, hole in air spring	Leak test all air line connections, threaded connections (if equipped), and all fittings in the control system (if equipped). Contact customer service regarding air spring failure.
Air spring or air line leak	Fitting seal or air line is compromised	Check to make sure air lines are seated in the fittings. Inspect fittings with soapy water. Trim hose or re-seal fitting. Ensure lines are cut straight.
One or more air springs won't inflate	Kink or fold in the air line, control system malfunction, inflation valve plugged	Replace any air line that has been kinked. Check control system function by disconnecting an air line, operating the system and checking for air pressure.

#### FREQUENTLY ASKED QUESTIONS

Q. Will installing air springs increase the weight ratings of a vehicle?

No. Adding air springs will not change the gross vehicle weight rating (GVWR) of a vehicle. Exceeding the GVWR is dangerous and voids the Air Lift warranty.

Q. Is it necessary to keep air in the air springs at all times and how much pressure will they need?

The recommended minimum air pressure is 5 PSI (.34BAR) for all air springs. This helps the air spring maintain its shape and, on some kits, prevents bottoming out.

Q. Is it necessary to add a compressor system to the air springs?

No. Air pressure can be adjusted with any

type of compressor as long as it can produce sufficient pressure to service the air springs. Even a bicycle tire pump can be used.

- Q. How long should air springs last? If the air springs are properly installed and maintained they should last indefinitely.
- Q. Will raising the vehicle on a hoist for service work damage the air springs?

No. For short-term service work such as tire rotation or oil changes, the vehicle can be lifted on a frame hoist with the air springs set to their minimum pressure. However, if the vehicle will be on the hoist for a prolonged period of time, support the axle with jack stands in order to take the tension off of the air springs.