

Kit 75572

Scion xA & xB





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 this Scion Air Lift Performance kit.

It is important to read and understand the entire installation guide before beginning installation or performing any maintenance, service or repair. The information 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. For the latest version of this manual, contact Air Lift Company at (800) 248-0892 or visit our website at www.airliftcompany.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.



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.

IMPORTANT SAFETY NOTICES

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 vehicle is designed to carry. Payload is GVWR minus the Base Curb Weight.



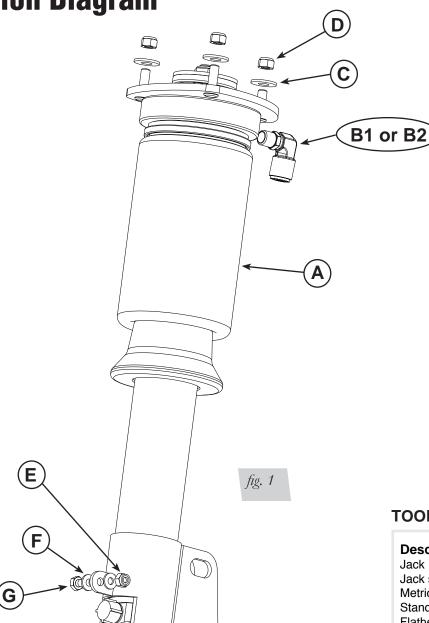
DO NOT INFLATE AIR SPRINGS WHILE OFF OF THE VEHICLE. DAMAGE TO ASSEMBLY MAY RESULT AND VOID WARRANTY.



DO NOT WELD TO, OR MODIFY LIFESTYLE STRUTS/SHOCKS IN ANY WAY. DAMAGE TO UNIT MAY OCCUR AND WILL VOID WARRANTY.



Installation Diagram



TOOLS LIST

Description

Jack

Jack stands or hoist Metric Wrenches Standard Wrenches Flathead Screwdriver **Torque Wrench**

HARDWARE LIST

Item	Part #	Description Qty
Α	35377	Gen II front strut2
B1	21779	Fitting - 1/4NPT X 1/4PTC Elbow2
B2	21851	Fitting - 1/4NPT X 3/8PTC Elbow2
С	18206	5/16" Flat Washer6
D	18438	5/16"-18 Nyloc Nut6
E	18425	1/4"-20 Nyloc Nut2
F	18419	#12 Flat Washer4
G	17175	1/4" - 20 x .75 Bolt2

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



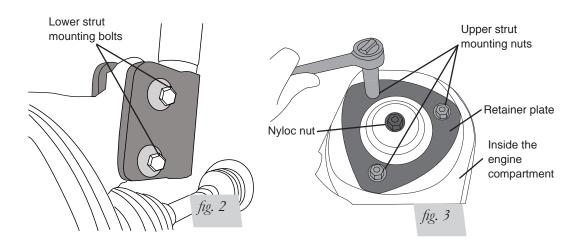
Installing the Air Suspension

PREPARING THE VEHICLE

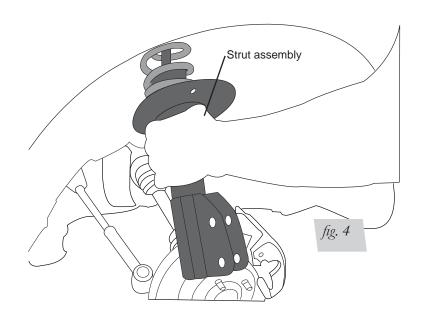
- 1. Elevate the vehicle and support the body with a hoist or jack stands.
- 2. Remove the front wheels.

REMOVING THE STRUT

- 1. Remove the brakeline and ABS retainer bolt and discard.
- 2. Using a screwdriver, unclip the ABS line from the retainer.
- 3. Remove the two lower retaining bolts from the spindle and save for reinstallation (fig. 2).
- 4. Remove the three upper retaining nuts and discard (fig. 3).
- 5. Remove the retainer plate and save it for later reinstallation (fig. 3).



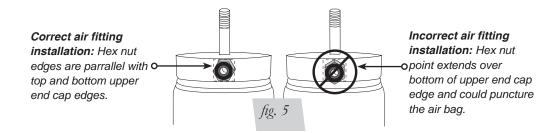
6. Remove the strut from the vehicle and discard (fig. 4).



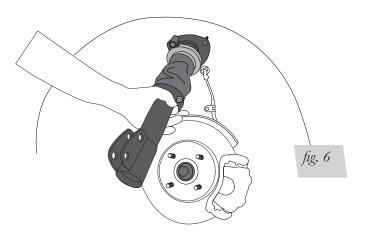


INSTALLING THE NEW STRUT ASSEMBLY

1. Prior to installing the strut, attach the air fitting provided to the threaded port at the top of the air spring (fig. 5). Seal with teflon tape.



- 2. In each strut pocket, check for any screws longer than 1/4". Grind these screws down to less than 1/4".
- 3. Insert the new strut into the vehicle's strut pocket (fig. 6).

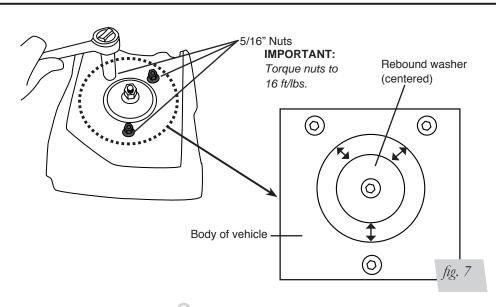


4. Reinstall the stock retainer plate and secure the strut in place using the 5/16" nuts and washers provided.

IMPORTANT: Torque to 22 Nm (16 ft/lbs).

NOTE

Be sure to center the rebound washer in the strut mount (body) hole before torquing the upper bracket 5/16" nuts (fig. 7).



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5. Raise the suspension to align the lower strut mount holes with the spindle. Reattach using the previously removed factory bolts, torque to 132 Nm (97 ft/lbs).

NOTE

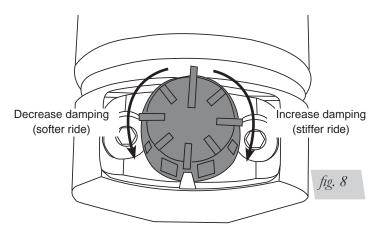
Use of Loctite Red or a similar thread sealant on the nyloc nut is recommended.

- 6. Reattach the ABS and brake lines.
- 7. Attach the air hose to the air fitting at the top of the strut.
- 8. Tighten all mounting hardware securely to manufacturer's torque specifications.

Before Operating

1. Some struts for this vehicle come with a nine-position damping dial for added adjustability (fig. 8). If not, proceed to 2.

Before driving your vehicle, set the new struts to their highest setting by turning the black dial on the shaft of the strut as far as it will go to the right (position 9).



Next, completely deflate and reinflate the air bags 2-3 times. This procedure will purge any
trapped air in the dampers and allow for maximum performance. For ride performance and
the most versatility, Lifestyle recommends setting the strut dial (if equipped) to position
6 or higher.



MAKE SURE THE FRONT WHEELS ARE STRAIGHT WHEN DEFLATING AND REINFLATING AIR BAGS.

- 3. Inflate and deflate the system (do not exceed 125 PSI) to check for clearance or binding issues. With the air springs deflated, check clearances on everything so as not to pinch brake lines, vent tubes, etc. Clear lines if necessary.
- 4. Inflate the air springs to 75PSI 90PSI and check all connections for leaks.
- 5. Air Lift part #27669 or #27671, AutoPilot V2 Air Management System, is highly recommended for this product.
- 6. Please continue by reading the Product Use, Maintenance and Servicing section.



INSTALLATION CHECKLIST

	brake drum, frame, shock absorbers and brake cables.
	Leak test before road test — Inflate the air springs to 75PSI - 90PSI and check all connections for leaks. All leaks must be eliminated before the vehicle is road tested.
	Heat test — Be sure there is sufficient clearance from heat sources, at least 6" for air springs and air lines. If a heat shield was included in the kit, install it. If there is no heat shield, but one is required, call Air Lift customer service at (800) 248-0892.
	Fastener test — Recheck all bolts for proper torque.
	Road test — The vehicle should be road tested after the preceding tests. Inflate the springs to recommended driving pressures. Drive the vehicle 10 miles and recheck for clearance, loose fasteners and air leaks.
	Operating instructions — If professionally installed, the installer should review the operating instructions with the owner. Be sure to provide the owner with all of the paperwork that came with the kit.
_	echnician's Signatureate
ı	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, then there is a leak that must be fixed. Either fix the leak yourself or return to the installer for service.
	Air pressure requirements — I understand the air pressure requirements of my air spring
	system. Regardless of load, the air pressure should always be adjusted to maintain adequate ride height at all times while driving.

☐ Clearance test — Inflate the air springs to 75-90 PSI and make sure there is at least ½" clearance from anything that might rub against each sleeve. Be sure to check the tire,

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installed, the installer should be consulted. Check all fasteners for tightness.



Product Use, Maintenance and Servicing

Suggested Driving Air Pressure	Maximum Air Pressure
60 PSI	125 PSI

FAILURE TO MAINTAIN ADEQUATE MINIMUM PRESSURE (OR PRESSURE PROPORTIONAL TO LOAD) WILL RESULT IN BOTTOMING OUT, OVER-EXTENSION OR RUBBING AGAINST ANOTHER COMPONENT AND WILL **VOID THE WARRANTY**.

MAINTENANCE GUIDELINES

NOTE

By following these steps, vehicle owners will obtain the longest life and best results from their air spring.

- Check the air pressure before driving.
- 2. Never inflate beyond 125 PSI.
- 3. If you develop an air leak in the system, use a soapy water solution to check all air line connections, before deflating and removing the spring.
- 4. When increasing load, always adjust the 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. Remember that loads carried behind the axle (including tongue loads) require more leveling force (pressure) than those carried directly over the axle.



FOR YOUR SAFETY AND TO PREVENT DAMAGE TO YOUR VEHICLE, DO NOT EXCEED MAXIMUM GROSS VEHICLE WEIGHT RATING (GVWR), AS INDICATED BY THE VEHICLE MANUFACTURER. ALTHOUGH YOUR AIR SPRINGS ARE RATED AT A MAXIMUM INFLATION PRESSURE OF 125 PSI, THE AIR PRESSURE ACTUALLY NEEDED IS DEPENDENT ON YOUR LOAD.

- 5. Always add air to the springs in small quantities, checking the pressure frequently. Sleeves require less air volume than a tire and inflate quickly.
- 6. Should it become necessary to raise the vehicle by the frame, make sure the control system is turned off before lifting.

Troubleshooting Guide

- 1. Leak test the air line connections, threaded connection of the elbow into the air spring, and the inflation valves.
- 2. Inspect the air lines to be sure none are pinched. Tie straps may be too tight. Loosen or replace the strap and replace leaking components.
- 3. Inspect the air line for holes and cracks. Replace as needed.
- 4. Look for a kink or fold in the air line. Reroute as needed.

If the preceding steps do not solve the problem, it is most likely caused by a failed air spring — either a factory defect or an operating problem. Please call Air Lift at (800) 248-0892 for assistance or a replacement air spring.



Frequently Asked Questions

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

No. Adding air springs will not change the weight ratings (GAWR, GCWR and/or GVWR) of a vehicle. Exceeding the GVWR is dangerous and voids the Air Lift warranty.

Q. How long should air springs last?

If the air springs are properly installed and maintained they can last indefinitely.

Q. Will raising the vehicle on a hoist for service work damage the air springs?

No. The vehicle can be lifted on a hoist for short-term service work such as tire rotation or oil changes. 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.

Tuning the Air Pressure

Pressure determination comes down to three things — level vehicle, ride comfort, and stability.

1. Level vehicle

If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level. Raise the air pressure to correct either of these problems and level the vehicle.

2. Ride comfort

If the vehicle has a rough or harsh ride it may be due to either too much pressure or not enough. Try different pressures to determine the best ride comfort. See Air Lift suggested driving air pressure.

3. Stability

Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a perfectly level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess. Tuning out these problems usually requires additional air pressure, strut damping, or both.

Checking for leaks

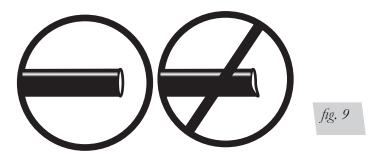
- 1. Inflate the air spring to 80 PSI.
- 2. Spray all connections and the inflation valves with a solution of 1/5 liquid dish soap and 4/5 water. Spot leaks easily by looking for bubbles in the soapy water.
- 3. After the test, deflate the springs to the minimum pressure required to restore the system to normal ride height.
- 4. Check the air pressure again after 24 hours. A 2 4 PSI loss after initial installation is normal. Retest for leaks if the loss is more than 5 lbs.

Fixing Leaks

- 1. If there is a problem with a swivel fitting:
 - a. Check the air line connection by deflating the spring and removing the line by pulling the collar against the fitting and pulling firmly on the air line. Trim 1" off the end of the air line. Be sure the cut is clean and square (see fig. 9). Reinsert the air line into the push-to-connect fitting.

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- b. Check the threaded connection by tightening the swivel fitting another ½ turn. If it still leaks, deflate the air spring, remove the fitting, and re-coat the threads with thread sealant. Reinstall by hand tightening as much as possible and then use a wrench for an additional two turns.
- 2. If the preceding steps have not resolved the problem, call Air Lift customer service at (800) 248-0892.

Warranty and Returns Policy

Air Lift Company warrants the Performance line of products to the original purchaser against manufacturing defects one year from the date of purchase when used on cars and trucks as specified under normal operating conditions. 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. 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 may 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.)



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 8 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.

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Notes



Notes

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Need Help?

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Register your warranty online at www.airliftcompany.com/warranty





2004-2006 Scion xA & xB Rear Kit Part No. 75672

www.airliftperformance.com

Please read these instructions completely before proceeding with installation



Warranty Information

- 1. All goods come with a one year manufacturers warranty against defects.
- 2. Warranty will be void if the strut is altered for any reason and/or adapted to applications other than those suggested.
- 3. Any abrasions or rub marks on the spring will not be covered under warranty. The customer is responsible for all repair charges.
- 4. Driving at low PSI can cause the spring to bottom out. Repeated bottoming out can cause the spring to fail. Failure resulting from repeated bottoming out is not covered under warranty.
- 5. The customer is responsible for all shipping costs to Air Lift Company for all warranty claims.
- 6. Please call tech support at 1-800-248-0892 before shipping a product to Air Lift Company.



Figure 1



Figure 2



Figure 3



Figure 4

Hardware Qty. Item P/N Description Α 58517 Rear Bag Assembly 2 В 17218 Hex Cap Screw 3/8"-24 x 1.25 G8 2 С 17267 Self Tap Screw 5/16"-18 x 1.5 8 D 17234 Hex Cap Screw 3/8"-24 x .75 G5 4 E1 21779 Fitting - 1/4NPT X 1/4PTC, Elbow 2 E2 21866 Fitting - 1/2NPT X 3/8PTC, Elbow 2 F 21247 1/2MNPT X 1/4FNPT Bushing 2 G 07981 Upper Bracket Left 1 H 07894 Upper Bracket Right 1 1 03984 Lower Bracket 2 18207 Flat Washer 2" dia. Flat Washer 3/8" Κ 18444 6 11801 Roll Plate 2

Tools Used:

3/8" drive 1/2" x 3/8" socket

14mm socket & ratchetpry bar17mm wrenchcut off wheel

floor jacks or other lifting device drill

1/4" drill bit

IMPORTANT: Always keep safety in mind when working on your vehicle. Completely read these instructions before installing the kit.

I. Preparing the Vehicle

- 1. Raise the vehicle and support the body with a hoist or jackstands.
- 2. Remove the rear wheels.

II. Removing the Strut

1. Remove the section of interior trim blocking access to the upper shock mount (Figure 1).

NOTE: This is located behind the seats in the trunk compartment above the strut pocket.

2. Remove the two upper retaining nuts, washer, and bushing from the upper shock mount and save for reinstallation (Figure 2).

NOTE: Remove the upper retaining hardware from both sides of the vehicle before proceeding with instructions.

- 3. Remove the nut and washer from the axle assembly and save for reinstallation (Figure 3).
- 4. Remove the shock from the vehicle and save for reinstallation (Figure 4).

NOTE: Remove the shocks from both sides of the vehicle before proceeding with instructions.

5. Elevate the rear of the vehicle and remove the coil spring. Discard the coil spring and rubber protectors (Figure 5).

CAUTION: Use extreme caution.

Technical Support 1-800-248-0892

III. Removing Exhaust Components

- 1. On the passenger side of the vehicle, it will be necessary to remove the exhaust system and muffler heat shield.
- 2. Remove the exhaust clamp (Figure 6). Using a pry bar, remove the rubber hangers from the muffler (Figure 7).

NOTE: One rubber hanger is located at the front end of the muffler and one is located at the back. Remove both.

- 3. Remove the muffler and save for reinstallation (Figure 8).
- 4. Remove the two bolts from the muffler heat shield and save for reinstallation. Remove the heat shield and save for reinstallation (Figure 9).



Figure 5



Figure 6



Figure 7



Figure 9



Figure 8

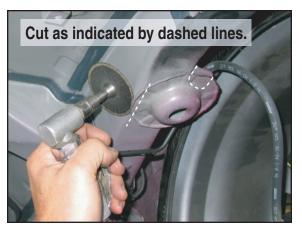


Figure 10

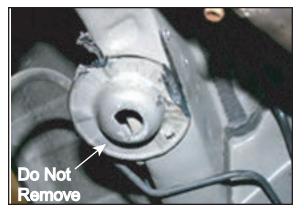


Figure 11



Figure 12



Figure 13

IV. Preparing the Spring Perches

1. Using a die grinder or other appropriate cutting device, cut off the protruding portion of the upper spring perch as marked by the dashed line in Figure 10.

NOTE: DO NOT remove the OEM spring mount (Figure 11).

V. Install Bag Assembly

- 1. Place Roll Plate (L) on bag (Figure 12).
- 2. Attach the upper mount (G or H) to the bag using the supplied bolts(D)and washers (K). (Figure 12).
- 3. Install supplied air fitting (E1 or E2) (Figure 12).

NOTE: Use teflon tape or thread sealant.

- 4. Place lower mounting plate (I) on axle (Figure 13).
- 5. Place bag assembly on top of lower mounting plate (Figure 14).
- 6. Using supplied bolts (B) and supplied washers(K),(J), thread bolt into bottom of bag assembly and snug up (Figure 16).

NOTE: Make sure small washer is below large washer.

VI. Attaching Upper Mount

- 1. Use jack to raise axle so that upper mount comes in contact with the frame.
- 2. Position upper mount so that the lower tab is on the edge of the hole in the frame.

NOTE: Hole may have a rubber plug over it.

- 3. Using the tab as a template, mark this hole and drill with 1/4" bit.
- 4. Install supplied self-threading bolts (C) and snug up (Figure 15).

NOTE: Do not overtighten self-threading bolts..

- 5. Once the bracket is snug, drill the three remaining holes with 1/4" bit (Figure 17).
- 6. Install supplied self-threading bolts (C) in the holes and snug up (Figure 19).



Figure 14



Figure 15



Figure 16



Figure 18



Figure 17



Figure 19



Figure 20



Figure 21



Figure 22



Figure 23

VII. Reinstalling OEM Components

- 1. Remove the jounce bumper from the dust shield on the OEM shock (Figure 20).
- 2. With an exacto knife, cut the jounce bumper in half and save the upper portion (Figure 21).
- 3. Reinstall the upper portion of the jounce bumper inside the dust shield.
- 4. Reattach the dust shield assembly to the OEM shock using retained OEM hardware (Figure 22).
- 5. Reinstall the previously removed muffler and heat shield by following the removal steps in reverse (Figures 6-9).
- 6. Reinstall the modified shock assembly into its stock location using retained OEM upper and lower mounting hardware (Figures 2-4).
- Reinstall the section of interior trim previously removed to gain access to the shock upper mount. Attach with retained OEM hardware (Figure 1).
- 8. Repeat steps 1-8 for the other side of the vehicle.
- 9. Finished Installation as shown (Figure 23).

VIII. Before Operating

- 1. Tighten and visually inspect all hardware after 100 miles.
- 2. Air Lift part #27669 or #27671, AutoPilot V2 Air Management System, is highly recommended for this product.
- 3. Please continue by reading the Maintenance and Operation section.

XI. Maintenance and Operation:

Minimum Pressure	Maximum Pressure	
10 p.s.i.	150 p.s.i.	
Failure to maintain correct minimum pressure (or pressure proportional to load).		

By following these steps, vehicle owners should obtain the longest life and best results from their air-struts.

- 1. Always maintain Ride Height.
- 2. Always adjust the air pressure to maintain Ride Height. Increase or decrease pressure from the system as necessary to attain Ride Height for optimal ride and handling.
- 3. Should it become necessary to raise the vehicle by the frame or do any service work, make sure the system is at minimum pressure (10 p.s.i.) for safety and to reduce the tension on the suspension/brake components.



Thank you for purchasing Air Lift Performance Products

Mailing Address: AIR LIFT COMPANY P.O. Box 80167 Lansing, MI 48908-0167 Street Address: AIR LIFT COMPANY 2727 Snow Rd. Lansing, MI 48917

Local Phone: (517) 322-2144 Fax: (517) 322-0240

For Technical Assistance call 1-800-248-0892



Kit Details *27671*



HARDWARE LIST

Part #	Description Qty	Part #	DescriptionQty
72605	4pt Fast Air Manifold - 1/4"" 1	21773	3/8" MNPT X 1/8" MNPT Adapter
27042	Gen 3 Display 1	21999	1/8" MNPT X 1/4" PTC Elbow2
26498-002	Electrical Harness - FastAir 1	21633	Push Lock Valve
24672	Fuse, spade 3amp1	21585	1/4" Pipe Plug
24547	Fuse, spade, 30amp1	20937	Polyurethane Filter Drain Hose5f
24500	ATC Fuse holder w/ cap2	20946	DOT 1/4" Air Line60f
24645	16GA Butt Connector1	17263	1/4-14 x 1 Self Tapping Screw
24752	12-10GA Butt Connector3	18444	3/8" Flat Washer
24748	12GA Ring Terminal 3/8"2	17188	3/8-16 x 1.25 Hex Cap Screw4
24524	Female Spade Terminal1	18435	3/8-16 Nyloc Nut4
24595	12GA Female Spade Terminal1	11517	Miniature Filter
24561	Adaptor, Mini Fuse1	11217	P Clamp
24542	ATC/ATO Fuse Adaptor1	17173	1/4"-14 X 3/4" Self Tapping Screw
23586	Thread Sealant1	16380	VIAIR 380C Compressor (200 psi)
21043	1/4" MNPT X 1/4" PTC Elbow1	11955	4 Gallon Aluminum Air Tank
21847	3/8" MNPT X 1/4" PTC Elbow1	10466	8" Zip Tie10
21737	3/8" Pipe Plug1	10530	Air Line Cutter



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



AutoPilot V2[™] PATENT PENDING









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, operation and troubleshooting of the AutoPilot V2 kit.

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

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 Performance at (800) 248-0892 or visit our website at www.airliftperformance.com.

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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.



Installing the AutoPilot V2 Kit

INSTALL COMPONENTS

NOTE

For a complete schematic, please see fig. 15. (pages 10-11)



BEST PRACTICE IS TO LOCATE THE MANIFOLD UNIT INSIDE THE VEHICLE. IF EXTERNAL MOUNTING IS DESIRED, THE MANIFOLD MUST BE LOCATED IN AN AREA SHIELDED FROM DIRECT WATER SPRAY FROM TIRES OR CAR WASHES. THE MANIFOLD SHOULD BE CONSIDERED "WATER RESISTANT" NOT "WATERPROOF".

Layout

- Plan component location first. Ideally, the manifold should be located above the compressor and tank if possible to avoid compressor ingested water from gathering in the manifold. This is most important for vehicles operated in below freezing climates.
- 2. Prior to mounting components, check to make sure:
 - the electrical harness connections will reach the manifold and compressor.
 - the compressor leader hose will reach the tank.
 - the air lines will route cleanly through the vehicle without kinking or bending.

NOTE

Be sure to install all components as far as possible from any heat sources. Plan and prepare harness and air line routing thru the vehicle. Eliminate all sharp edges that could chafe. Use grommets when passing through compartment walls.

Prepare and install the compressor

- Prepare the compressor intake. If the compressor body is mounted inside the vehicle, attach filter to port on end of compressor (fig. 15). If compressor is located outside the vehicle, snorkel inlet filter to dry location inside vehicle using components supplied with compressor.
- 2. Center punch and drill four holes using the template on page 19.
- Attach using the hardware supplied with the compressor.

NOTE

If the harness must be lengthened, use properly sized butt connectors and wire. If extending the power/ground wires, use 8AWG wire minimum or contact Air Lift for more information.

The supplied harness is only capable of powering a single compressor. If installing dual compressors, a second dedicated power wire is required. Consult the Electrical Schematic section for proper wiring, and contact Air Lift for an optional second compressor harness (part number: 27679).

Manifold

 Position the manifold in a desired location. Make sure the manifold mounting surface is flat.

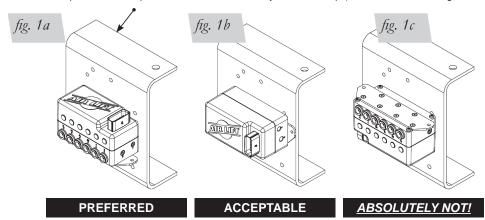
NOTE

Mount the manifold to the body either horizontally (fig. 1a) or vertically with the ports facing toward the ground (fig. 1b). Do not mount the manifold upside down (fig. 1c). Proper manifold mounting will help prevent water from settling in areas sensitive to freezing.

- 2. Fasten the manifold using the two self-tapping screws. If the mounting surface is not flat, add washers to space the manifold up over surface irregularities.
- 3. If needed, a manifold mounting template can be found on page 17.

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This represents the top of the vehicle frame or any custom setup (and is the same for figures 1b and 1c).



NOTE

Air compressors intake moisture (humidity) from the outside air source and will deposit water in the air tank. The AutoPilot V2 system includes a filter that will greatly reduce the potential for moisture to enter the manifold, however, tanks must be regularly purged to eliminate the possibility of water entering the manifold. Be sure to provide easy access to tank drain/fill valve (preferably outside the vehicle). This is an automatic draining filter and does not need servicing. If you find this filter to be plugged, it will need to be replaced. If using an engine driven compressor, the life of the provided filter may be reduced due to the increased potential for oil being introduced into the system.

Tank pre-assembly (see fig. 15)

 Per the diagram on pages 10 and 11, install the filter to the tank with supplied fittings/ adapters or remotely mount the filter using the supplied fittings, P-clamp and self tapping screw. Be sure to mount the filter in the correct orientation.

NOTE

This is a one-way filter. The arrow at the top should be pointing in the direction of the air flow from the tank to the manifold (fig. 15b).

This is an automatic draining filter that does not require servicing. If you find this filter to be plugged, it will need to be replaced. The tank will need to be purged periodically to reduce/eliminate the potential of moisture entering the manifold.

Tank install (see fig. 15)

- 1. Using the tank feet as a template, drill holes for hardware assembly.
- 2. Attach the tank using the supplied hardware.
- 3. Cut an appropriate length of hose from the manifold port T, to the PTC fitting on the filter.
- 4. Route the drain/fill air line with a schrader valve (preferably outside the vehicle).
- 5. Install the supplied drain tube (soft hose) to the bottom of the filter and route to a location outside of the vehicle.

NOTE

When cutting plastic air line, only use a standard hose cutter like (Air Lift part number 10530) or razorblade. Cut all hose ends square and as smoothly as possible. See hose cutting tips on page 6.

INSTALL HARNESS

- 1. Disconnect the battery ground while installing the system.
- 2. Compressor / manifold connections (see fig. 15)
 - Attach the manifold connector, it will "click" into place once fully seated.
 - Mount the compressor relay in a preferred location using a self-tapping screw.
 - Cut off the spade and eyelet from the compressor power and ground wires.
 - Strip 1/4" of wire casing from the compressor wires.
 - Strip 1/4" of wire casing from the black and pink harness wires.
 - NOTE: Use an appropriate terminal crimp tool to ensure a good connection.



- Using a butt connector attach the RED compressor wire to the PINK harness wire.
- Using a butt connector attach the BLACK compressor wire to the BLACK harness wire.
- Carefully apply heat (preferably with a heat gun) to seal these connections.
- 3. Battery / ignition connections (see fig. 15)
 - Identify the power, ground, + ignition leg of the harness.
 - Ground: 10AWG black wire; Power: 10AWG red wire; Ignition: 18AWG pink wire.
 - Route power and ground leg of the harness free from any heat source to the battery.
 - Using a butt connector attach the red wire to a fuse holder.
 - Attach an 3/8" eyelet to the other end of the fuse holder and attach to the positive battery (+) terminal.
 - Attach an 3/8" eyelet to the black wire and attach to the battery ground.
 - Route the 18AWG pink wire to a key switched IGNITION source that remains on during cranking. Examples include: ECU, fuel pump.

NOTE

Do not select an accessory source. If the AutoPilot V2 display shuts off while starting the vehicle, this is not a true ignition source.

- Using a butt connector attach the pink ignition wire to a fuse holder.
- Select ignition source and attach the fused ignition wire.
- Use fuse adaptors as necessary.
- 4. Display
 - Route the display cable as desired to the preferred operating location.
 - Attach the display cable to the main harness cable (small white 3 cavity connector).
- 5. Reconnect the battery.

INSTALL AIR LINES

NOTE

Use a standard hose cutter (Air Lift part number 10530) or razorblade. Cut all hose ends square and as smoothly as possible.

- Route and attach the air lines to the air springs.
 - Route air lines free from abrasive edges and heat sources.
- 2. Attach manifold port **FL** to the front, drivers side left spring.
- 3. Attach manifold port **FR** to the front, passengers side right spring.
- 4. Attach manifold port **RL** to the rear, drivers side left spring.
- 5. Attach manifold port **RR** to the rear, passengers side right spring.
- 6. Attach manifold port **T** to the PTC fitting previously installed on the filter.
- 7. Manifold port **E** is the exhaust port.
 - Port E can be left open, or routed to a preferred exhaust location.

NOTE

Air lines should be pushed in firmly, with a slight back and forth rotational twist – check the connection by pulling on each line to verify a robust connection.

Release the air line from the fitting by releasing air, pushing on the line, depressing the ring towards the fitting, and then pulling the hose out of the fitting.

NPT ASSEMBLY INSTRUCTIONS

- 1. Inspect the port and fitting ensuring both are free of contaminants and excessive burrs and nicks.
- 2. Apply a stripe of liquid pipe sealant around the male threads leaving the first two threads uncovered.
- 3. Screw finger tight into the port.
- 4. Wrench tighten the fitting to the correct turns past finger tight position (see table 1 located on page 6).



NEVER BACK OFF AN INSTALLED PIPE FITTING TO ACHIEVE PROPER ALIGNMENT. LOOSENING INSTALLED PIPE FITTINGS WILL CORRUPT THE SEAL AND CONTRIBUTE TO LEAKAGE AND FAILURE.

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Torque Specifications		
Fitting Size	Turns Past Finger Tight	Torque lb/ft
1/8" NPT	1.5 - 3.0	12
1/4" NPT	1.5 - 3.0	25
3/8" NPT	1.5 - 3.0	40
1/2" NPT	1.5 - 3.0	54
3/4" NPT	1.5 - 3.0	78
1" NPT	1 - 2.5	112
1 1/4" NPT	1 - 2.5	154
1 1/2" NPT	1 - 2.5	211
2" NPT	1 - 2.5	300

Table 1

HELPFUL TIPS: AIR LINE AND FITTINGS

- Minimum hose bend radius
 - 3/8" hose = 1.5" hose bend radius.
 - 1/4" hose = 1" hose bend radius.
- 2. Hose to fitting
 - No side loading on fitting from hose.
 - Hose straight for 1" before bending.
- Hose cutting
 - Cut hose perpendicular to hose length.
 - Inspect hose for scratches that run lengthwise on hose prior to insertion.
 - Use proper hose cutter, cigar cutter, or razor on flat surface.
- DOT/SAEJ844 air brake hose data
 - Maximum working pressure of 175 PSI.
 - Not to be used for frame (body) to un-sprung mass connection, use a braided leader hose for this moving connection.

Compressor Tank Pressure			
Viair	Air Lift P/N	Max. Tank Pressure	
380C	16380	175	
400C	16400	150	
444C	16444	175	
450C	16450	150	
480C	16480	175	

Table 2

Setup and Calibration

AutoPilot V2 is an advanced pressure-based air suspension control system, that uses state-of-the-art software algorithms to calibrate or map the control system to your vehicle. Once the system is calibrated, the algorithm predicts required "valve open time" to move the air suspension to achieve preset target pressures. AutoPilot V2 has 8 programmable presets, allowing the user to input 8 different combinations of the 4 corner air spring pressures.

After installing AutoPilot V2 in your vehicle, please follow the steps below to properly setup your new system. If changes are made after installing and calibrating the system such as changes to air springs, lines, tank, compressor, or other vehicle modifications, the system must be recalibrated to maintain accuracy.



SYSTEM CALIBRATION AND SETTINGS

- Key-on/power up, and compressor should come on to fill the tank. Check to make sure system is triggered by IGNITION source. While starting the engine, the system should be ON. If not, please refer back to the "Install Harness" section.
- Press buttons 1 and 5 simultaneously (1+5) and hold for 5-10 seconds until settings and diagnostics mode main page appears (fig. 3).

Tank Adjust (Maximum System PSI)

Press button 1 (TANK ADJUST). Set tank pressure preference by pressing MAX up/down buttons simultaneously (fig. 4). The MAX value sets compressor cut-off pressure. Press buttons (1+5) simultaneously to exit to settings and diagnostics mode.

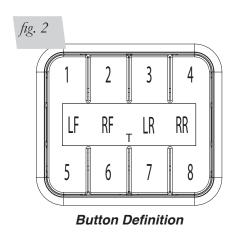
NOTE

MIN tank pressure will follow MAX within 15 PSI to provide further accuracy.

If tank MAX settings are changed, a system recalibration is necessary for optimal performance. Max tank pressures for various compressors can be found in table 2.

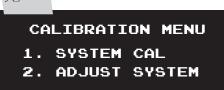
Calibrate to your vehicle

Press button 2 to enter CALIBRATE (fig. 3). Press button 1 SYSTEM CAL (fig. 5), follow instructions to calibrate AutoPilot V2 system to your vehicle. Once calibration is complete, Press buttons (1+5) simultaneously to exit to settings and diagnostics mode.











DURING CALIBRATION THE SYSTEM WILL AUTOMATICALLY DEFLATE TO 0 PSI AND RAISE TO 100 PSI ON EACH AXLE AUTOMATICALLY. IF WHEELS EXTEND BEYOND FENDERS, VEHICLE DAMAGE MAY RESULT. CALIBRATION ON NARROW WHEELS THAT TUCK INSIDE THE FENDERS IS RECOMMENDED. ALSO, MAKE SURE VEHICLE BODYWORK WILL NOT BE HARMED IF ONE END IS RAISED TO 100 PSI AND THE OTHER IS AT ZERO. IF DAMAGE IS POSSIBLE, IT MAY BE BEST TO CALIBRATE BY SETTING VEHICLE ON BLOCKS OF WOOD (SAME HEIGHT) TO GIVE THE BODYWORK MORE CLEARANCE.

Backlight Setting

Press button 3 to enter BACKLIGHT (fig. 3). Set display backlight to your preference by pressing the + and – on R (Red), G (Green), B (Blue) (fig. 6). Press buttons (1+5) simultaneously to exit to settings and diagnostics mode.





Automatic Preset Maintenance

Press button 4 (fig. 3) to enter PRESET MAINTAIN. Press button 8 to turn ON or OFF (fig. 7). When ON, this function actively monitors air spring pressure and fills to maintain active preset pressure when average pressure drops below a threshold due to a system leak.



NOTE

This function will not exhaust pressure. If air spring pressure is higher than preset target, only the operator pressing the preset button again will activate the system to exhaust air spring pressure (for safety). Press buttons (1+5) simultaneously to exit.

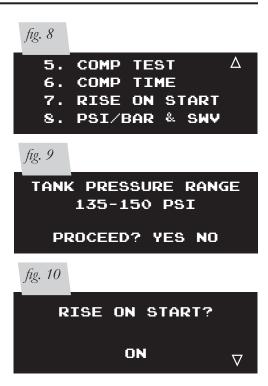
PRESET MAINTAIN should be off for performance/track driving or if operating in extremely hilly areas.

Compressor Test / Run Time

Press button 5 to run a compressor test (fig. 8). This function will exhaust the tank to the specified MIN tank pressure, then turn ON the compressor and measure its inflate time to achieve MAX pressure (fig. 9). AutoPilot V2 will record this fill time, allowing the operator to compare future fill times to determine compressor performance. Press buttons (1+5) simultaneously to exit. Press button 6 (fig. 8) to view the number of hours the compressor has been running.

Rise on Start

Press button 7 (fig. 8) to enter RISE ON START (fig. 10). This function will automatically activate valves to achieve preset 1 target pressures when the vehicle is keyed-on. This function allows the operator to drive away seconds after vehicle is started. Press buttons (1+5) simultaneously to exit.



NOTE

This function only operates when the start-up pressures are BELOW the Preset 1 target pressures. The system will not deflate to achieve Preset 1 target

Set Units (PSI / BAR)

- 1. Press button 8 (fig. 8) to toggle between PSI and BAR pressure units and check software version. Press buttons (1+5) simultaneously to exit.
- 2. Press buttons (1+5) simultaneously to exit settings and diagnostics you are now ready to create presets!

NOTE

BAR stands for DeciBar values.



Program Presets

Program Preset 1

NOTE

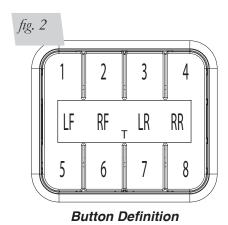
Preset 1 should always be entered as the desired ride pressure for the RISE ON START function.

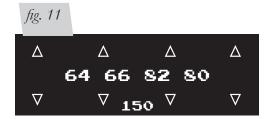
Determine desired ride pressures: press buttons (1+5) simultaneously to toggle display to MANUAL mode. Manually activate each corner (see MANUAL mode section page 13) to achieve desired "normal driving" ride pressure (fig. 11). Program preset 1: press buttons (1+5) simultaneously to toggle display to PRESET mode (fig. 12). Press and hold button 1 for 3 seconds to set preset 1. Release button and actual air spring pressures will appear (fig. 12). Fine-tune the pressures by pressing up/down buttons. Press and hold to scroll. Press buttons (1+5) simultaneously to save and exit.

Program Presets 2-8

You are now free to program the additional 7 presets to desired pressures. Typical presets can be:

- "Low": set pressures to the lowest possible pressures for extreme low driving stance.
- "Front up": for speed bump or driveway clearance.
- "Rear up": for added load of passengers, equipment.
- "Play": for those that want to enjoy their air suspension freedom, AutoPilot V2 has a special function that recognizes side-to-side presets. When left side pressures are equal, and right side pressures are equal but >25PSI different than left, the algorithm will activate side to side instead of front to back. It will also equalize all air spring pressures when exiting the "play" preset, conserving air by using the high pressure side to inflate the low pressure side. Pairing two "play" presets together allows side-to-side activation that consumes far less air than manual mode activation would consume.





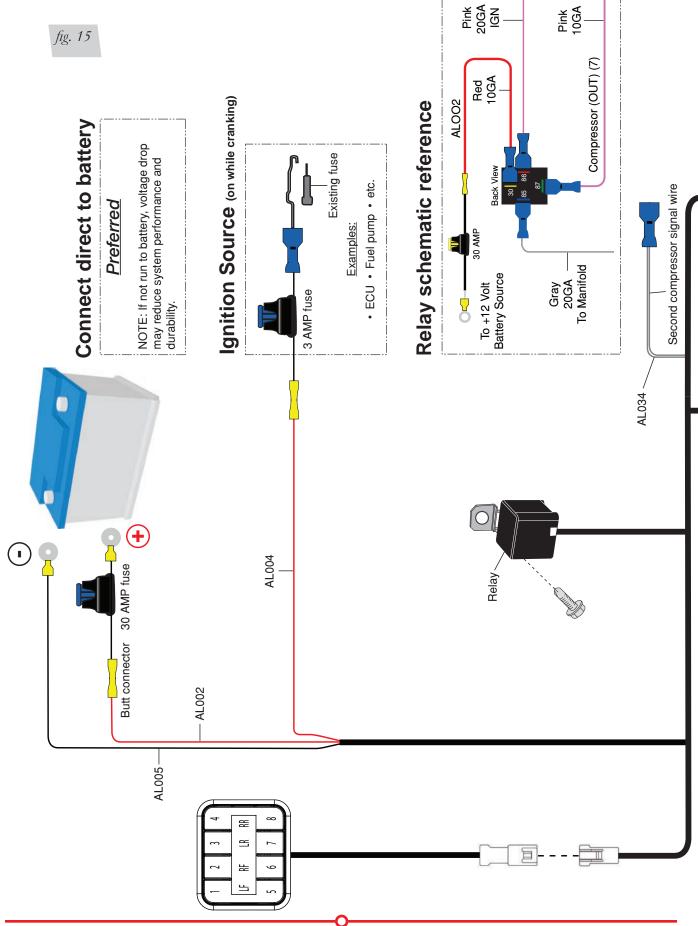




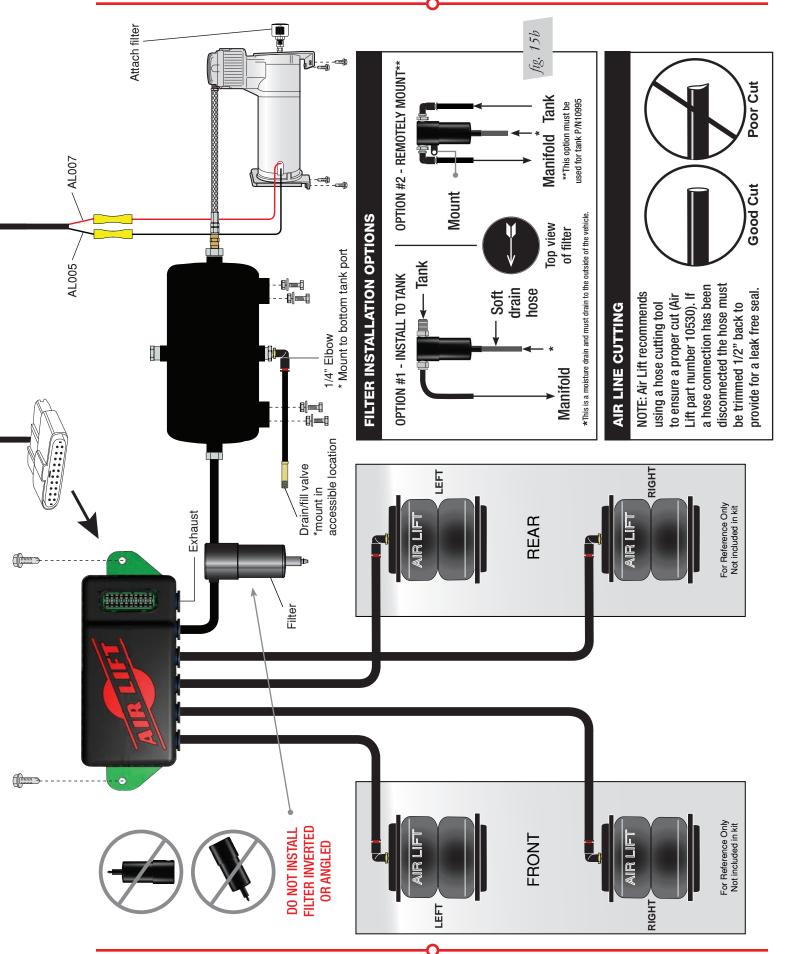


Sample Pressure Layouts for Play Mode (figs. 13 & 14)

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Operating the System

Now that your system is set up, it's time to use it. If changes are made after installing and calibrating the system such as changes to air springs, lines, tank, or compressor, the system must be recalibrated to maintain system accuracy.

There are two operational modes: PRESET and MANUAL. Pressing buttons (1+5) simultaneously will toggle between modes. After 10 seconds of non-use, the display enters standby where the LCD dims. Any button hit will "wake-up" the display and allow users to activate the system. See mode operation below for more details.

PRESET Mode

- If display is sleeping, press any button once to "wake up" the display. If display is illuminated, go to the next step. Press of any button will display the programmed preset pressures for that button. Users can quickly view each preset prior to activating to make sure they are selecting the desired preset.
- A 2nd button press of the same preset button within 2 seconds will activate it. The system
 will iterate up to 6 times to achieve the preset target pressures by +/- 3 PSI. The display
 shows PLEASE WAIT as it iterates, then will flash SUCCESSFUL when achieved or
 UNSUCCESSFUL if not able to achieve the target pressure window.
- Micro adjust to ±1 PSI: If more accuracy is desired, double press the same preset and
 the system will refine pressures closer to target. This is often necessary when target
 preset pressures are LOWER than current pressure. Accuracy can be improved by
 rolling the vehicle straight while activating the preset.

NOTE

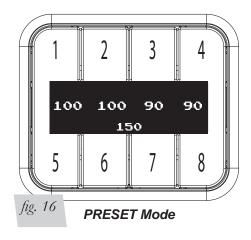
If the system indicates UNSUCCESSFUL, refer to troubleshooting guide on page 13.

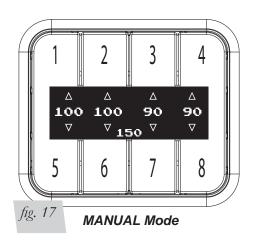
PRESET Mode: Improve Accuracy

If system reads SUCCESSFUL but pressures are consistently lower or higher than target, you can improve first attempt accuracy by going to Calibration Menu (fig. 5) and pressing button 2. Adjust the ADJ value to a higher number if first attempt pressures are lower than target. Adjust the value to a lower number if first attempt pressures are higher than target.



WHEN A PRESET IS ACTIVATED THAT LOWERS THE VEHICLE SIGNIFICANTLY BELOW DRIVING HEIGHT, BE SURE TO HAVE THE FRONT WHEELS STEERED STRAIGHT AHEAD TO AVOID FENDER TO TIRE DAMAGE!







MANUAL Mode

- MANUAL mode allows the user to fill or exhaust each spring independently. The display will show arrows above and below the pressures to indicate manual control mode (fig. 17). The arrow will be solid when the spring is filling/exhausting, and outlined when not active.
- 2. The system detects button press time. For a very short (<0.1sec) duration press, the system will open the valves for a defined "burst", changing pressure minimally so users can fine-tune their pressures. For a longer than 0.1 sec duration press, the valves open as long as you hold the button down. If a button is held active, the fill/exhaust will time out after 10 seconds.</p>
 - Fill springs: buttons 1 4, Exhaust springs: buttons 5 8

Troubleshooting Guide

For further technical assistance please 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.

PROBLEM	CAUSE	SOLUTION
Compressor doesn't run	There is a blown fuse or relay, bad ground, or poor electrical connections.	Replace the fuse, check the ground wire, or check the compressor connector
Compressor runs all the time.	The compressor relay is defective or there is a leak.	Replace the relay or locate the leak and repair.
Air spring or tank leak.	Fitting seal or air line is compromised.	Check to make sure air lines are seated in connectors. Inspect fittings with soapy water. Trim hose or re- seal fitting.
Nothing happens when the vehicle is key-on ignition active	There is a blown fuse or a poor connection.	Replace the fuses and check the electrical connections.
The display does not light up.	There is a blown fuse or a poor connection.	Replace the fuses and check the electrical connections.
Compressors runs all the time but doesn't fill the tank.	Compressor in-line check valve fitting has been overtorqued.	Loosen fitting and check again. Replace if needed.
Display shows UNSUCCESSFUL.	"Double Click" for Preset not completed within 2 second window.	If display is in sleep mode, click once to "Wake Up", then "Double Click" desired preset within 2 seconds of each press.
	Calibration may need to be adjusted or system may need to be recalibrated.	Adjust ADJ value or recalibrate system to reduce number of iterations.
	Tank pressure settings changed.	
	Vehicle load changed significantly.	Attempt recalibration.
	Air springs/air lines/tank changed.	
Display shows PRESSURE SENSOR FAILURE.	ECU has detected a pressure sensor operating incorrectly.	Only manual mode can be used to operate suspension. Contact customer service immediately to resolve the problem.

Leak Testing and Detection

Leak detection

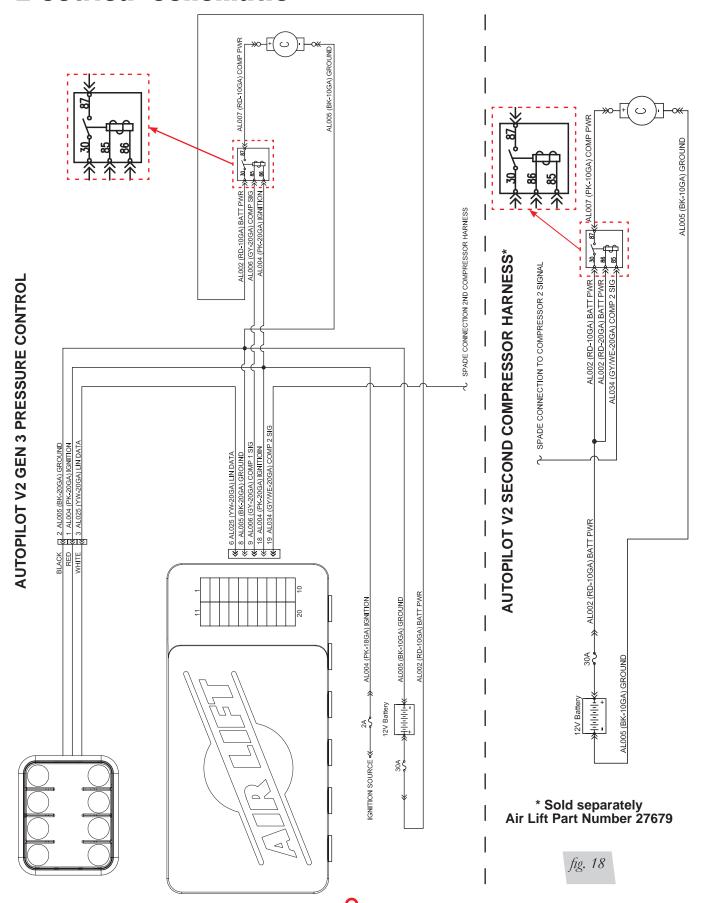
- 1. A leak can be defined as a loss of pressure of more than 5 psi over an 8 hour period. Be aware that ambient temperature change has an effect on pressure that may seem like a leak. For example: a change of 10deg Fahrenheit up or down from your baseline will have an approximate gain or loss of indicated pressure of 2 psi. If a leak is suspected after including any temperature change, then proceed to #2.
- 2. Spray soapy water (1/5 Dawn brand dish soap to 4/5 water) on suspect fittings and hose connections and look for any bubbling caused by air leakage.
- 3. Fix leaking connection (review pg. 6 for help on NPT fittings and air line connections).
- 4. Wipe down sprayed connections with rag to remove any residual soapy water.

NOTE

Dawn brand dish soap will not corrode the metals (aluminum, brass, steel) with which it comes into contact.



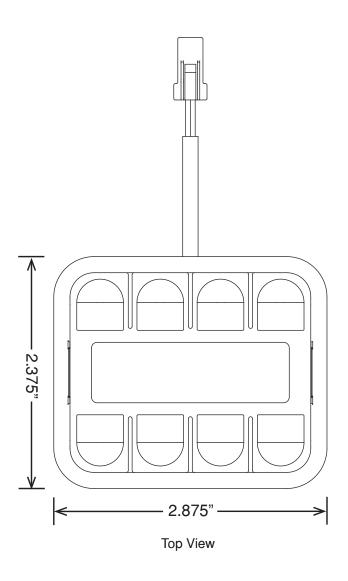
Electrical Schematic



14



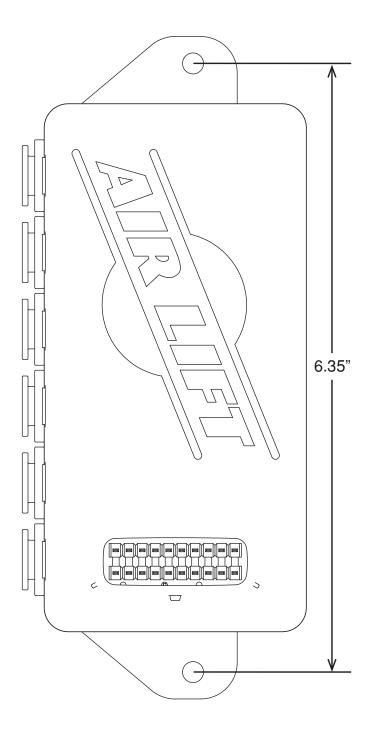
AutoPilot V2 Remote Control Unit Dimensions



Notes

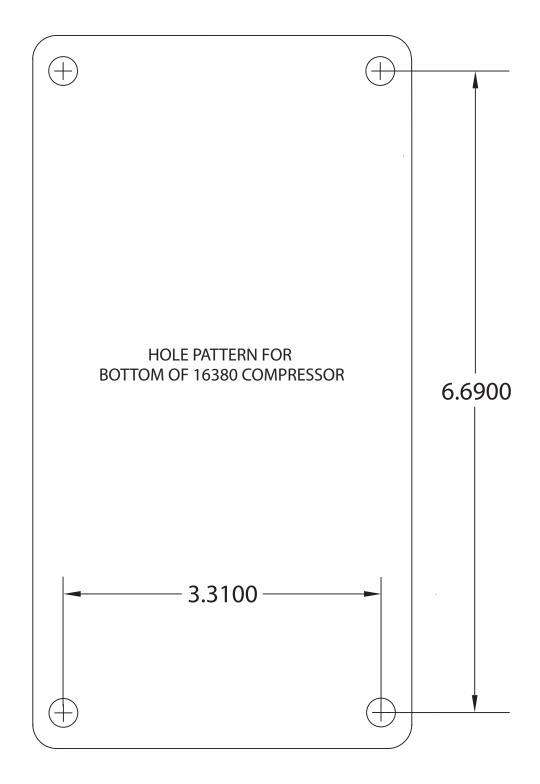


Manifold Template



Notes

16380 Compressor Template



Notes



Warranty and Returns Policy

Air Lift Company warrants its performance products for one year to the original purchaser against manufacturing defects one year from the date of purchase when used on cars and trucks as specified under normal operating conditions. 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. 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 may 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.)

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. You may also contact customer service anytime by e-mail at techsupport@airliftperformance.com.

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 our sales team anytime by e-mail at sales@airliftperformance.com or on the web at www.airliftperformance.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.

