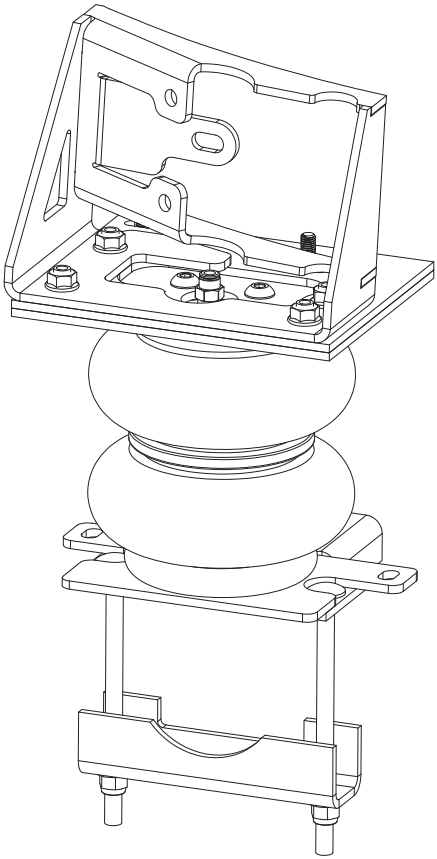
ENGINEERED BY AIR LIFT



Atlus Air A5000

Kit Number: AA57383

Fits:
Toyota Tundra

Engineered and Assembled in the USA

Installation Instructions

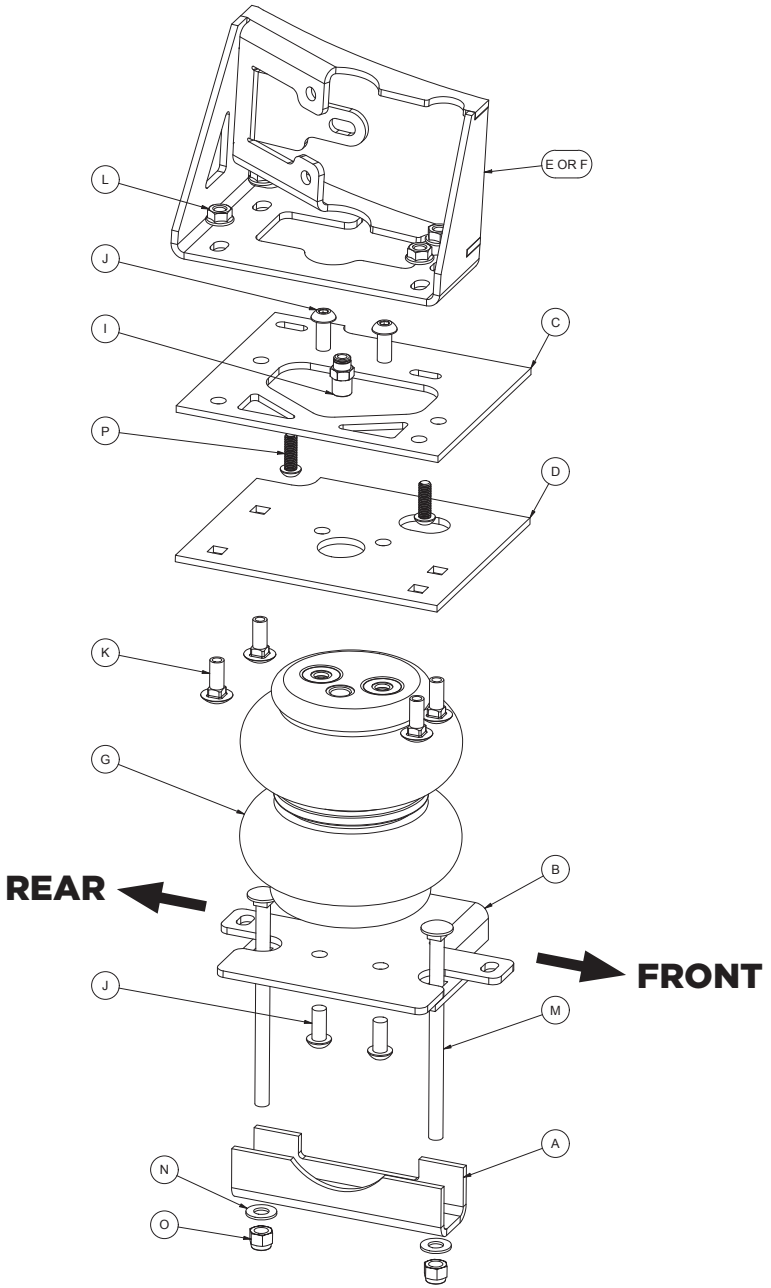
Before Getting Started

For optimal performance and safety, read all instructions thoroughly before beginning the installation. Failure to read and follow these instructions may lead to improper installation and potential safety risks.

Tools Needed

- Standard and metric open-end or box wrenches
- Ratchet
- 9/16" Ratchet wrench
- Standard and metric regular and deep-well sockets
- Torque wrench
- 5 mm hex key
- Hose cutter, razor blade, or sharp knife
- Hoist or floor jacks
- Safety stands
- Safety glasses
- Air compressor or compressed air source
- Spray bottle w/ dish soap/water solution

AA57383 Exploded Installation View



Parts List

Part	Part No.	Part Description	QTY
A	01535	Clamp bar	2
B	03084	Lower bracket	2
C	07198	Upper frame bracket	2
D	11451	Upper spring bracket	2
E	11453	Left hand upper brace	1
F	11452	Right hand upper brace	1
G	58403	Air spring	2
I		1/4" Air fitting	2
J		3/8"-16 x 3/4" Button head screw	8
K		3/8"-16 x 1" Carriage bolt	8
L		3/8"-16 Serrated flange nut	8
M		3/8"-16 x 6" Carriage bolt	4
N		3/8" Flat washer	4
O		3/8"-16 Nylon lock nut	4
P		M8 x 25mm Button head screw	4
Q*		M8 x 1.25 Nylon lock nut	3
R*		M8 Flat washer	3
S*		M8 x 20mm Hex head flange bolt	2
AA*		Air line assembly	1
BB*		Zip ties	6
CC*		Valve cap	2
DD*		Star washer	2
EE*		Rubber washer	2
FF*		M8 Flat washer	2
GG*		5/16" Hex nut	4
HH*	13955	Spacer	1

***** These parts are not shown in the Exploded Installation View section

Introduction

This guide is here to walk you through setting up and taking care of your Atlus Air™ A5000 air suspension kit. They are built tough—commercial-grade and reinforced for durability. Think of the air springs like tires: layers of rubber and strong cords work together to manage pressure and maintain shape to help control your ride.

With Atlus Air A5000, you'll get up to 5000 pounds (2268 kg) of support to keep your ride level, and you can fine-tune the pressure anywhere between 5 and 100 PSI (0.34 to 7 BAR). Before diving into the installation or doing any kind of upkeep, make sure to read through the entire manual—it'll save you time and headaches down the road.

Symbols

THIS MEANS THERE'S AN IMMEDIATE AND SERIOUS RISK. IF IGNORED, IT WILL LEAD TO SEVERE INJURY OR EVEN DEATH. ALWAYS TAKE THESE WARNINGS SERIOUSLY.

SIGNALS A DANGEROUS SITUATION OR UNSAFE ACTION THAT COULD CAUSE SEVERE INJURY OR DEATH. IT'S NOT A GUARANTEE, BUT IT'S A BIG RISK—PROCEED CAREFULLY.

These callouts highlight useful advice or important reminders to keep you on track during the process. Don't skip them—they often save time.

Little tricks of the trade to help installation go more smoothly. These tips can make a big difference if you're aiming for a clean, efficient job.

Information

This kit does not increase the Gross Vehicle Weight Rating (GVWR) or payload capacity of your vehicle. Always refer to your vehicle's Safety Compliance Certification Label or owner's manual, and do not exceed the manufacturer's maximum load rating.

- **Gross Vehicle Weight Rating (GVWR):**
  The maximum allowable weight of a fully loaded vehicle, including passengers, cargo, and fluids. This value—along with other important specifications like tire size, rim size, and inflation pressure—is located on the vehicle's Safety Compliance Certification Label.
- **Payload:**
  The maximum combined weight of passengers and cargo your vehicle is designed to carry. Payload is calculated by subtracting the vehicle's base curb weight from its GVWR.

Air Pressure Guidelines

While Atlus Air A5000 air springs are engineered to handle a **maximum inflation pressure of 100 PSI (7.0 BAR)**, the actual pressure required will vary based on the vehicle's load and total weight. Always adjust air pressure according to your specific load conditions—**not solely based on the maximum pressure limit.**

Ride Height and Suspension Limits

Always maintain the correct ride height by adjusting the air pressure based on your current load. Shock absorbers typically act as the suspension limiters on extension. If they do not, particularly on off-road vehicles, consider using limiting straps to prevent overextension.

Brake System Considerations

Vehicles equipped with a **rear brake proportioning valve** may experience changes in braking performance when using a load-assist product. **Consult your dealer** before installation. If your vehicle **does not** have a proportioning valve or is equipped with an **anti-lock brake system (ABS)**, the installation of an air spring kit **will not affect braking performance.**

System Install

Build Air Springs

1. Install Air Fitting

Install the air fitting (I) into the air spring (G). Thread it in finger-tight, then tighten an additional 1 1/2 turns using a 1/2" wrench.

2. Attach Upper Roll Plate and Bracket

Insert two 1" carriage bolts (K) into the upper spring bracket (D). Attach the bracket to the air spring using two button head screws (J) and the two square holes near the center of the bracket. Torque to no more than 20 lb.-ft. (27Nm).

3. Assemble the Opposite Side

Repeat the same steps for the opposite side, ensuring a mirrored orientation. With the air spring assemblies upright and the air fittings on the side facing you, the left (driver side) assembly should have the upper bracket corner cutout in the upper left corner. The right (passenger side) assembly should have the cutout in the upper right corner.

4. Install Lower Bracket

Flip the air spring assembly over. Install two long carriage bolts (M) through the lower bracket (B). Position the lower bracket onto the air spring with flat surface against the air spring. The bracket should be oriented with the carriage bolts on the same side of the assembly as the air fitting on top of the air spring. Secure the lower bracket with two 3/8"-24 button head screws (J). Torque to no more than 20 lb.-ft (27Nm). When finished, ensure proper orientation:

- The lower bracket tabs that stick out should be on the opposite side of the air port.
- The two long carriage bolts (M) should be on the same side of the assembly as the air fitting.

Vehicle Preinstall Steps

1. Raise and Support the Vehicle

Lift the vehicle and securely support the frame using safety stands. Lower the axle enough to allow room for installing the air springs between the frame and axle.

2. Remove Factory Jounce Bumpers

Using a 12mm socket or wrench, remove the factory jounce bumpers from both sides of the vehicle. Each jounce bumper is attached with three bolts—one on the side of the frame and two on the bottom. Once removed, your frame should resemble the appearance shown in the referenced image.

3. Remove Plastic Covers and Module

Use a small pry bar or flathead screwdriver to remove the plastic covers—one from each side of the frame. On the passenger (right) side, remove the module by extracting the two bolts with a 12mm socket or wrench. Carefully tuck the module out of the way for now to allow installation clearance.

Air Spring Installation into Vehicle

1. Attach Upper Frame Brackets

With the upper frame bracket (c) oriented so the round holes are on the outside of the frame towards the tire, and the slotted holes are inboard, attach the upper frame brackets (C) to the underside of the frame using four M8 button head cap screws (P)—two screws per bracket. Using a 5mm hex tool, thread the screws through the slotted holes in the brackets and into the factory frame holes where the jounce bumpers were previously mounted. Do not fully tighten the hardware yet; the brackets should be able to slide slightly forward and backward. Ensure the two wider-spaced holes in the bracket face toward the front of the vehicle.

2. Align and Tighten Upper Frame Brackets

Place the upper brace (E for driver's side or F for passenger's side) on top of the frame plate. Adjust both the brace and frame plate until the threaded hole in the frame and the brace holes align with the upper frame bracket holes. Once aligned, tighten the two M8 screws (P) securing the brace to the underside of the frame to 18 lb.-ft. (24Nm) using a 5mm hex tool. Then remove the upper brace (E or F).

3. Detach Emergency Brake Cables

Remove the bolts securing the emergency brake cables to the axle—one bolt per side.

4. Install Air Spring Assemblies

Support the frame securely and lower the axle slightly to ease installation. Place each air spring assembly in position, resting the lower bracket directly on the axle.

5. Secure Assemblies to Upper Brackets

Thread two serrated flange nuts (L) onto the two short carriage bolts (K) extending from the upper assembly bracket from Step 2 of "Build Air Springs", but leave them loose. Install an M8 flanged bolt (S) through the upper brace and into the frame and torque to 18 lb.-ft. (24Nm). Torque the two serrated flange nuts installed above to 16 lb.-ft. (22Nm).

6. Install Remaining Carriage Bolts

Install the remaining short carriage bolts (K) through the upper brace and bracket, then secure them with serrated flange nuts (L). Torque to 16 lb.-ft. (22Nm). Confirm the air spring assembly appears correctly positioned.

7. Reattach the Module to Upper Brace

Using one of the previously removed module bolts along with an M8 washer (R) and M8 lock nut (Q), attach the module securely to the upper brace. Torque to 18 lb.-ft. (24Nm).

8. Secure Lower Mounting

Slip the lower clamp bar (A) over the long carriage bolts (M) extending below the axle. Install a flat washer (N) and nylon lock nut (O) onto each bolt. Torque evenly to 10 lb.-ft. (14Nm), ensuring the clamp bar remains level. Maintain proper clearance between the carriage bolts and the brake lines.

9. Adjust Brake Lines

Remove the OEM brake line clips from the axle and reposition them by flipping them around or pushing the lines toward the axle to create clearance.

The brake lines must not contact the carriage bolts. Adjust the brake lines as needed to maintain safe clearance.

10. Reattach Brake Cable Bracket

Using the OEM bolt removed earlier, along with an M8 washer (R) and M8 lock nut (Q), attach the brake cable bracket to the tab on the lower bracket.

Air Lines Installation

1. Select Schrader Valve Locations

Choose suitable locations for the Schrader valves. If necessary, drill a 5/16″ (8 mm) hole at each selected location. Common locations for mounting are inside fuel tank filler door, inside rear wheel wells, or by the license plate mount or rear bumper area.

2. Measure and Cut the Air Line

Measure the length of air line needed to reach your intended Schrader valve locations. Cut the air line (AA) using a sharp razor blade or hose cutter to make clean, square cuts. Do not use scissors or wire cutters, as these can deform the tubing and compromise the seal.

3. Route and Secure the Air Line

Route the air line (AA) from each air spring to the chosen Schrader valve locations. Plan the route to avoid sharp edges, moving parts, and heat sources. Once routed, use zip ties (BB) to secure the air line to stable points along the vehicle chassis. Do not pinch or kink the line. Leave at least 2″ (51 mm) of slack to accommodate movement. The air line's minimum bend radius is 1″ (25 mm).

Maintain a minimum of 5 1/2" (140 mm) clearance between all air lines and any part of the exhaust system. Avoid routing air lines over sharp edges or making tight bends.

4. Install Schrader Valves

Install the Schrader valves into the selected locations.

Heat Shield Installation (if provided in kit)

1. Position the Heat Shield

Place the heat shield over the exhaust pipe near the air spring. Maintain at least 1/2″ (13 mm) of clearance between the shield and the exhaust surface. Depending on the design of the heat shield included in your kit, you may need to bend the tabs or the shield itself to achieve proper fitment and spacing.

2. Install the Air Line Thermal Sleeve (if included)

If your kit includes a thermal sleeve, slide it over the section of air line that runs closest to the exhaust. This sleeve helps protect the line from excessive heat exposure.

3. Secure Components with Hose Clamps

Use hose clamps to secure the heat shield and thermal sleeve (if used). Apply double clamps where needed for added security. Make final adjustments to ensure all components are properly spaced and firmly in place.

Checklist

Ensure the air suspension system is correctly installed and safe for operation by completing the following checks:

1. Clearance Verification

Inflate the air springs to 50 PSI (3.45 BAR). Confirm a minimum clearance of 1/2″ (13 mm) between the air springs and any adjacent components, including tires, brake assemblies, the vehicle frame, shock absorbers, and brake lines. Adjust as needed to prevent contact during operation.

2. Heat Clearance Check

Verify that all air springs and air lines are positioned at least 5 1/2″ (140 mm) away from any heat sources.

3. Leak Inspection

With the system pressurized to 50 PSI (3.45 BAR) inspect all fittings, air lines, and connections for leaks. All leaks must be fully resolved prior to road test.

4. Road Test Procedure

Inflate the air springs to the recommended operating pressure and conduct a 10-mile (16 km) road test. Upon completion, re-inspect for adequate clearance, air leaks, and secure fasteners.

5. Torque Confirmation

After 500 miles (800 km) of driving, recheck and torque all hardware to the specified values to ensure long-term stability and safety.

Adjusting Air Pressure

Stability

Properly adjusting air pressure is key to achieving both vehicle stability and correct ride height. Begin by increasing pressure until the suspension feels firm and controlled—without exceeding the maximum of 100 PSI (7 BAR). Ensure the vehicle sits level across all four corners. Uneven loads may require redistributing cargo or adjusting air pressure side to side.

Comfort

Ride quality is also influenced by air pressure. Too much or too little can cause harshness or instability. As a general rule:

- If the vehicle frequently bottoms out on the frame, increase air pressure.
- If the ride feels overly stiff or harsh, reduce air pressure slightly.

Adjust gradually to find the best balance between comfort and control.

Guidelines

1. ***Check System Pressure Weekly***

Inspect the air pressure in the system at least once a week to ensure consistent performance and ride quality.

2. ***Maintain Proper Ride Height***

Always operate the vehicle at the recommended ride height. Do not exceed 100 PSI (7.0 BAR) under any circumstances.

3. ***Inspect for Air Leaks as Needed***

   If you suspect a leak, follow these steps to identify and address the issue:

   a. Inflate the air springs to 50 PSI (3.45 BAR).

   b. Spray all air line connections and the inflation valve with a mild solution of liquid dish soap and water.

   c. Wait 30 seconds and observe for any bubbles, which indicate a leak.

   d. Recheck the system pressure after 24 hours. A pressure loss of 2–4 PSI (0.14–0.28 BAR) is normal after initial installation. If the pressure drops by more than 5 PSI (0.34 BAR), recheck for leaks.

   e. Once testing is complete, adjust the air spring to the minimum pressure required for proper ride height.

4. ***Inspect Hardware and Component Alignment***

Periodically check that all fasteners are properly torqued. Also, check for signs of rubbing or misalignment, and realign components as needed.

5. ***Clean the Air Springs***

Occasionally, spray the air springs with clean water to remove mud, dirt, or debris that may collect during use.

6. ***Lift the Vehicle with Care***

If lifting the vehicle by the frame, reduce system pressure to 5 PSI (0.34 BAR) to relieve tension on the air springs and mounting hardware.

Repair Guide

Fixing Leaks on Barbed Fittings

1. Cut the air line 1 1/2″ (38 mm) behind the existing fitting.
2. Use pliers or locking pliers to twist and pull the air line off the fitting.

Do not cut lengthwise, as this may damage the barbs and lead to future leaks.

3. Reinstall the air line and clamp (if applicable), making sure the air line fully covers all barbs for a proper seal.

Fixing Leaks on Push-to-Connect (PTC) Fittings

To Disconnect:

1. Release all air pressure from the system.
2. Push the air line inward toward the fitting.
3. While holding the air line in, press the collar inward toward the fitting.
4. With the collar depressed, pull the air line out.

Before Reconnecting:

5. Cut off the end of the air line just beyond the witness mark to ensure a clean, undamaged sealing surface.
6. If the fitting leaks at the threads, remove it, apply fresh thread sealant, and reinstall it 1 1/2 turns beyond finger-tight.

To Reconnect:

7. Push the air line into the fitting until fully seated.
8. Gently pull back on the air line to verify a secure connection.

Warranty

What this warranty covers

Atlus Products Company provides a warranty to the original purchaser of its Load Support Products, for the periods of time listed at AtlusProducts.com, by product line, from the date of original purchase, that the products will be free from defects in workmanship and materials when used on cars and trucks as specified by Atlus Products Company and under normal operating conditions, subject to the requirements and exclusions set forth below.

What this warranty does not cover

The warranty does not apply to products that have been improperly applied, improperly installed, or that have not been maintained in accordance with the installation instructions furnished with all products. This warranty does not apply and is void if damage or failure is caused by: accident, abuse, misuse (including but not limited to racing or off-road activities or commercial use), abnormal use, faulty installation, liquid contact, fire, earthquake or other external cause; operating the product outside Atlus Products Company's instructions, specifications or guidelines; or service, alteration, maintenance or repairs performed by anyone other than Atlus Products Company to the product from its purchased condition. This warranty also does not apply to: consumable parts, such as batteries, cosmetic damage, including but not limited to scratches or dents; defects caused by normal wear and tear or otherwise due to the normal aging of the product, or if any serial or identification number has been removed or defaced from the product. Atlus Products Company reserves the right to change the design of any product without assuming any obligation to modify any product previously manufactured.

Limitation of liability

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

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

How to get service

If a defect in workmanship or materials causes your Atlus product to become inoperable within the warranty period, before returning any defective product, email Atlus Products Company at support@atlusproducts.com. The consumer shall be responsible for removing the defective product from the vehicle (including any labor charges) and returning it, shipping costs prepaid, to Atlus Products Company for verification. You must prove to the satisfaction of Atlus Products Company the date of original purchase of your Atlus product. A minimum $10 shipping and handling charge (plus applicable sales tax) will apply to all warranty claims. You must also pack the product to minimize the risk of it being damaged in transit. If we receive a product in damaged condition as the result of shipping, we will notify you and you must seek a claim with the shipper.

What Atlus Products Company will do

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

How the law relates to this warranty

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

Customer Support

For Customer Service support, please contact us at:
support@atlusproducts.com

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

Atlus

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Engineered and Assembled in the USA

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ECR 10488

California: ⚠WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov