

Kit 75578 Audi A4 B6/B7 Platform Front Application



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 Audi Lifestyle 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.



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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.

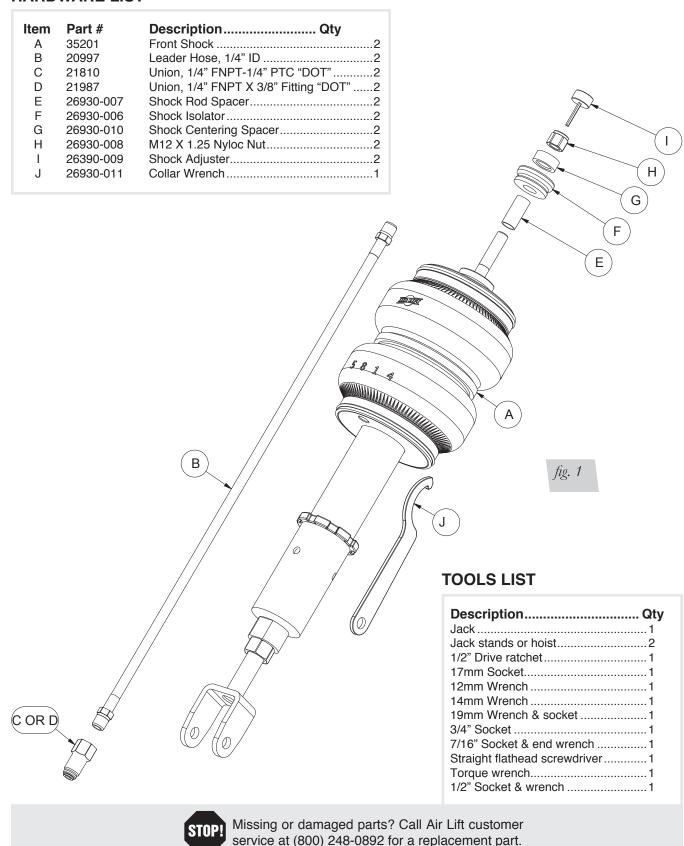


DO NOT WELD TO, OR MODIFY LIFESTYLE STRUTS/SHOCKS IN ANY WAY. DAMAGE TO UNIT MAY OCCUR AND WILL VOID WARRANTY.



Installation Diagram

HARDWARE LIST





Installing the Air Suspension

PREPARING THE VEHICLE

- 1. Support vehicle with jack stands or a hoist at approved lifting points.
- 2. Remove the front wheels

STOCK SHOCK REMOVAL

NOTE

If equipped with headlight alignment system, disconnect range control linkage first.

- 1. Support the hub assembly to prevent over extension of suspension components
- 2. Remove lower shock bolt from track control link (bolt 1 in fig 2)
- 3. Disconnect the stabilizer bar (bolt 2 or 4 in fig 2)
- 4. Unbolt the track control link from the chassis (bolt 3 in figure 2)

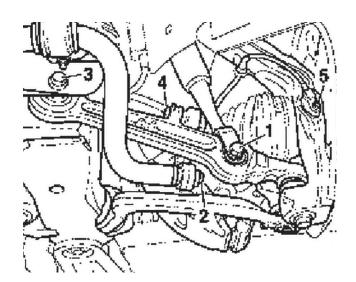


fig. 2

5. Remove the bolt from the upper control arms to adjoining steering knuckle (bolt 2 in fig 3). Remove the upper control arm ball joints from the steering knuckle.

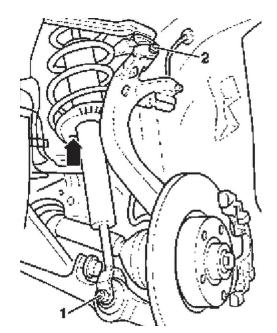


fig. 3



- 6. Remove the rubber weather-stripping and plenum chamber cover.
- 7. Unfasten the coolant reservoir and move away from plenum cover to reveal the upper bracket bolt (fig 4 and 5). Remove the round plastic cap located under the plenum cover to reveal the second bolt to be removed. The third is nested beside the ECU and is difficult to see but accessible without needing to remove the ECU. Unbolt the three bolts holding the stock upper bracket to the chassis (fig 6). Bolts on the other side are located within view once the plenum cover is removed.





fig. 5



fig. 6

- 8. Remove the shock assembly from the vehicle.
- 9. Securely mount the shock assembly in a coil spring compressor, compress the spring and remove the nut from the top of the shock rod. Safely release the assembly. Retain the upper bracket and rubber isolator.
- 10. If the upper control arm bolt heads face toward the outside of the bracket remove the bolts and flip them so the head of the bolt will face the air spring (fig 7). This is done to gain air spring clearance and prevent wear of the air spring. Failure to do this may result in a premature failure of the air spring and will not be covered under warranty. Tighten the bolts down just enough that the bushing can still rotate around the bolt.



MODIFICATIONS FOR AIR SUSPENSION

1. Remove the jounce bumper cup from the upper bracket (fig 8 and 9). Do not remove extra material from the upper bracket. Remove the plastic guide spacer from the new shock assembly and insert into the upper bracket hole (fig 10). This fitment should be a mild press fit (fig 11). Light grinding may be required to accomplish the desired fitment.



fig. 8



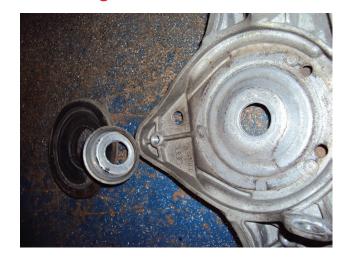




fig. 10



fig. 11

2. Center punch and drill a 3/8" hole though the center of the suspension shock dome. This hole will be used as an access port for damping adjustments (fig 12 and 13).

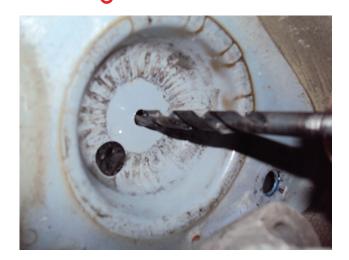




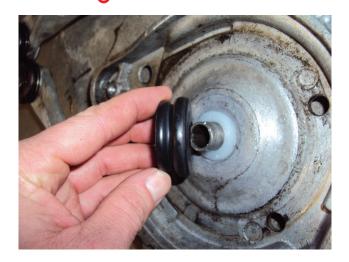
fig. 13

INSTALLING THE AIR SUSPENSION

1. Begin by installing the leader line into the air spring. Wrap the threads of the leader hose with Teflon tape or thread sealant. Tighten the appropriate fitting to the airline 1 ¾ turns beyond hand tight. Tighten the leader line into the air spring 1-3/4 turns beyond hand tight (fig 14).



2. Apply the supplied rubber isolator from the shock with the large convolute slipping over the previously installed metal sleeve spacer to the bottom side of the upper bracket as shown (fig 15).



3. Insert shock rod through the upper bracket (fig 16). Apply the stock isolator over the rod and thread lock nut on top (fig 17 and 18). Rotate the shock assembly until the leader hose is toward the back of the bracket (fig 20). Tighten the nut onto the rod using hand tools. (fig 18 and 19) An impact wrench may not fully seat the nut before the rod starts to spin. If the nut is not tight, there will be a rattle noise. If an impact wrench is used, damage will occur to the shock. Tighten the nyloc nut on the shock rod to 27Nm (20 ft-lbs).



fig. 16



fig. 17

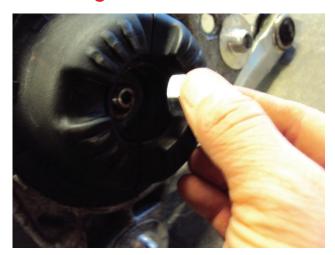




fig. 19



fig. 20

- 4. Insert the new assembly and attach the upper bracket in place with the three bolts previously removed (fig 6). Make sure the shims are correctly seated to the chassis and not hung up on the upper bracket bosses.
- 5. Loosely install the clevis bolt into the lower control arm (figs. 2 and 3). Also, loosely reinstall the track link to chassis bolt (fig 2 and 3). Loosely reattach the sway bar (fig. 2). **Do not tighten these at this time.**
- 6. Reattach the upper control arm ball joints to the steering knuckle (fig. 3). Make sure the joints are fully seated as the bolt is slid through.



7. Fully compress the suspension using a jack. With the suspension compressed, review the best routing for the leader hose that is clear of all suspension components. Routing should also allow for the suspension to extend without kinking or pulling the line tight or rubbing on other components. Following the brake line routing is often a good place to start. Check clearances to all other components. Depending on the desired drop height of the system, wires in the inner fender are best to be disconnected and rerouted inside the engine bay (figs. 21 and 22).

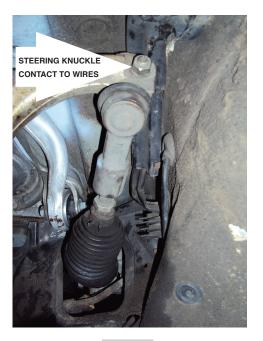




fig. 21

fig. 22

- 8. With the suspension fully compressed, take a measurement from the fender to some reference point typically the center of the axle. Record this measurement as Max Compression.
- 9. Cycle the suspension to Max Extension and record the measurement from the same reference points.
- 10. Add ME and MC then divide by 2. Set the suspension to this point. This position will give 50% stroke in either direction and is a starting point for ride height (fig. 23).

Formula for Calculating Ride Height

(ME+MC)+2=MID STROKE



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11. At this position torque the lower clevis bolt, upper and lower control arm bolts to manufacturer's specifications (Table 1).

Torque Specifications		
Location	Nm	ft. lbs.
Shock Rod Nut	27	20
Upper bracket to chassis	75	55
Upper control arms to bracket	50Nm + 90°	37 ft./lbs. + 90°
Upper control arms to steering knuckle	40	30
Track control link to shock clevis	90	66
Track control link to subframe	125	92
Guide link to subframe	125	92
End link to track control link	50Nm + 90°	37 ft./lbs. + 90°
End link to sway bar	40Nm + 90°	30 ft./lbs. + 90°
Wheels	120	89

Table 1

DAMPING ADJUSTMENT

The shocks in this kit have 30 settings, or "clicks", of adjustable compression and rebound damping characteristics. Damping is changed through the shock rod using the supplied adjuster (figs. 24 & 25) or a 3mm allen wrench.

Turn the adjuster clockwise and the damping settings are hardened. Turn the adjuster counterclockwise and the damping is softened.

Each shock is preset to "-10 clicks". This means that the shock is adjusted 10 clicks away from full stiff. Counting down from full stiff is the preferred method of keeping track of, or setting, damping. This setting was developed on a 2002 A4 1.8T Quattro and may need to be adjusted to the different vehicles and driving characteristics.





ALIGNING THE VEHICLE

- 1. Using the control system, set the vehicle height to the new custom ride height.
- 2. If the custom ride height is lower than stock, we recommend loosening all pivot points (bolts, nuts) on any control arm, strut arm or radius rod that contains bushings (fig. 7). Once they have been loosened, re-torque to stock specifications (Table 1).

NOTE

It may be necessary to cycle the suspension to loosen the bushing up from its mount. This will help re-orient the bushing at its new position based on the custom ride height.

Before Operating



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

- 1. 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.
- 2. Inflate the air springs to 75PSI 90PSI and check all connections for leaks.
- 3. Air Lift part #27669 or #27671, AutoPilot V2 Air Management System, is highly recommended for this product.
- 4. Please continue by reading the Product Use, Maintenance and Servicing section.

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INSTALLATION CHECKLIST

	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, 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.
Te	echnician's Signature
D	ate
F	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.
	Thirty day or 500 mile test — I understand that I must recheck the air spring system after 30 days or 500 miles, 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.



Product Use, Maintenance and Servicing

Suggested Driving Air Pressure	Maximum Air Pressure
75 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.

- 1. 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, the threaded connection into the air spring, and all fittings in the control system.
- 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 possibly caused by a failed air spring — either a factory defect or an operating problem. Please call Air Lift at (800) 248-0892 for assistance.

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.

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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

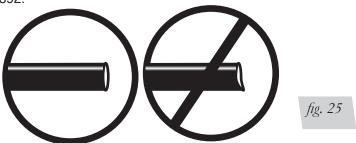
Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a perfectly level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess. Tuning out these problems usually requires additional air pressure, strut damping, 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. 25). Reinsert the air line into the push-to-connect fitting.
 - 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 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, 8 a.m. to 8 p.m. Eastern Time. 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.

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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.



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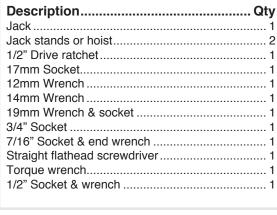


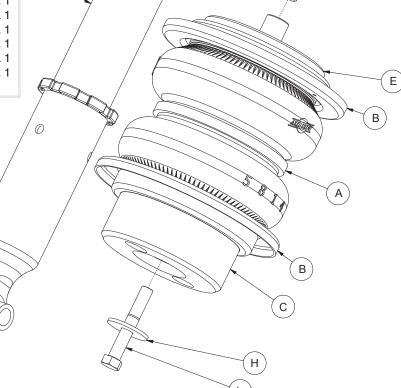
Installation Diagram

HARDWARE LIST

Item	Part #	DescriptionQty
Α	58526	Air Spring, 2B6 Reg (Audi B6/B7 Rear)2
В	11801	Roll Plate4
С	13309	Spacer, Rear Lower (Audi B6/B7)2
D	18454	3/4-16 Hex Jam Nut2
E	13308	Spacer, Rear Upper (Audi B6/B7)2
F	21745	Connector, 1/4 MNPT X 1/4 PTC2
G	21853	Connector, 1/4 MNPT X 3/8 PTC2
Н	18447	Flat Washer2
1	17454	3/8-24 X 2.5 Hex Cap Screw2
J	26931	Shock (Audi B6/B7)2
K	26931-009	Shock Adjuster2
L	26931-008	M10 X 1.25 Nyloc Nut2

TOOLS LIST





F or G

STOP!

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

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J



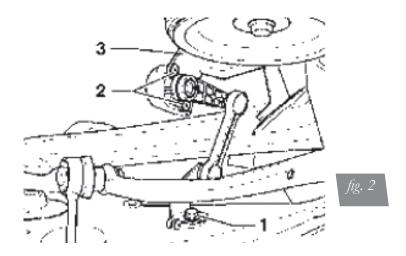
Installing the Air Suspension

PREPARING THE VEHICLE

- 1. Support the vehicle with jack stands or a hoist at approved lifting points.
- 2. Remove the rear wheels.

NOTE

If equipped with a headlight alignment system, disconnect the range control linkage first (fig. 2).



STOCK SUSPENSION REMOVAL

- 1. Support the hub assembly before beginning work.
- 2. Remove the inner fender liners from both sides (fig. 3).





3. Unbolt the upper and lower shock mounts and remove from vehicle (figs. 4-6).

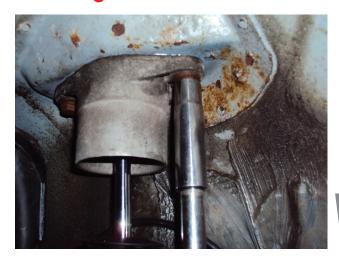




fig. 5



fig. 6

4. Remove the nut from the top of the shock rod. Retain the upper mounting bracket for later use (fig. 7).





5. Using a coil spring compressor, remove the rear coil springs along with upper and lower isolators (figs. 8-10).







6. Directly above the upper coil spring perch, remove the rubber plug (figs. 11-12).



fig. 11







AIR SUSPENSION INSTALLATION

1. Take the OEM upper mount and bolt onto the chassis. Insert a punch through the center of the OEM upper mount and center-punch a dimple into the chassis (figs. 13 & 14). Remove the OEM upper bracket. Before drilling, make sure there is nothing to be damaged on the top side of the shock housing. Then drill a 3/8 hole at the dimpled center mark (fig. 15). Damping settings can be adjusted through this hole.







fig. 14

 Remove the nyloc nut from the top of the supplied shock rod. Leave the washer and spacer on the shock rod as received and cap with the OEM upper mount. Thread the nyloc nut on the shock rod (figs. 16 & 17). DO NOT USE AN IMPACT WRENCH. If an impact wrench is used, damage will occur to the shock. Tighten the nyloc nut on the shock rod to 27Nm (20lb-ft).













- 3. Attach the shock to the vehicle chassis and torque upper bracket bolts to 35Nm (26ft. / lbs). Attach but do not tighten the lower shock mount at this time.
- 4. If using 1/4" airline, 1/4" PTC fittings can be installed now. Wrap the fitting threads with Teflon tape or thread sealant. Torque fitting 1 and 3/4 turns beyond and tight. If using 3/8 PTC fittings, move to the next step (fig. 18).

Air Lift Performance



5. Collapse the air spring and install over the lower coil spring perch with the threaded boss going through the vehicles upper coil spring perch (figs. 19-20). With the air spring assembly fully seated at the upper spring seat, check the clearance around the roll plate (fig. 21). Some vehicles may need a slight clearance modification to the chassis.





fig. 19



fig. 20



6. Carefully slide the plastic nut through the hole above the upper coil spring perch and thread onto the threaded boss (fig. 22). A flathead screwdriver can be used to lock the nut in place while the air spring is spun until tightened against the upper spring perch (fig. 23).







fig. 23

7. Thread the supplied washer and nut and thread into the air spring assembly through the lower control arm (figs. 24-25). Torque to 20Nm (15lb-ft)



fig. 24





- 8. If using 3/8 PTC fittings, install now by wrapping fitting threads with Teflon tape or thread sealant and torque 1 and 3/4 turns beyond hand tight. **Enlarging access hole may help with 3/8 fitting installation.**
- 9. Insert air line through hole into the air spring fitting. At this point, securely route the air line away from heat sources and suspension components (fig. 26). Best practice is to route the air line behind the fender liner paying close attention to shock travel. Failure to protect the line from the shock may result in kinky hose.

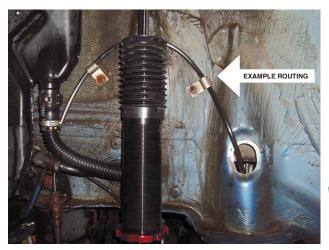


fig. 26

10. Compress the suspension fully and check clearance around the air spring and air line. Quattro models may require some trimming of the roll plate to clear the axle at a lowered height (fig. 27). If doing so, make sure that there are no sharp edges when finished.



fig. 27

- 11. Fully compress the suspension using a jack. With the suspension compressed, review the best routing for the leader hose that is clear of all suspension components and axle. Routing should also allow for the suspension to extend without kinking or pulling the line tight or rubbing on other components. Following the brake line routing is often a good place to start. Check clearances to all other components.
- With the suspension fully compressed, take a measurement from the fender to some reference point – typically the center of the axle. Record this measurement as Max Compression.
- 13. Cycle the suspension to Max Extension and record the measurement from the same reference points.
- 14. Add ME and MC then divide by 2. Set the suspension to this point. This position will give 50% stroke in either direction and is a starting point for ride height (fig. 28).

Formula for Calculating Ride Height

(ME+MC)÷2=MID STROKE

15. With the suspension at this position, loosen, then re-torque the lower control arm bolts to manufacturer's specifications (Table 1).

Torque Specifications		
Location	Nm	lb-ft
Upper bracket to chassis	75	55
Upper control arms to bracket	50Nm + 90°	37 ft./lbs. + 90°
Upper control arms to steering knuckle	40	30
Track control link to shock clevis	90	66
Track control link to subframe	125	92
Guide link to subframe	125	92
End link to track control link	50Nm + 90°	37lb-ft + 90°
End link to sway bar	40Nm + 90°	30lb-ft + 90°

Table 1



DAMPING ADJUSTMENT

The shocks in this kit have 30 settings, or "clicks", of adjustable compression and rebound damping characteristics. Damping is changed through the shock rod using the supplied adjuster (figs. 29 & 30) or a 3mm allen wrench.

Turn the adjuster clockwise and the damping settings are hardened. Turn the adjuster counterclockwise and the damping is softened.

Each shock is preset to "-13 clicks". This means that the shock is adjusted 13 clicks away from full stiff. Counting down from full stiff is the preferred method of keeping track of, or setting, damping. This setting was developed on a 2002 Audi A4 1.8T Quattro and may need to be adjusted to different vehicles and driving characteristics.



ALIGNING THE VEHICLE

- 1. Using the control system, set the vehicle height to the new custom ride height.
- If the custom ride height is lower than stock, we recommend loosening all pivot points (bolts, nuts) on any control arm, strut arm or radius rod that contains bushings. Once they have been loosened, re-torque to stock specifications.

NOTE

It may be necessary to cycle the suspension to loosen the bushing up from its mount. This will help re-orient the bushing at its new position and increase life of the bushings based on the custom ride height.

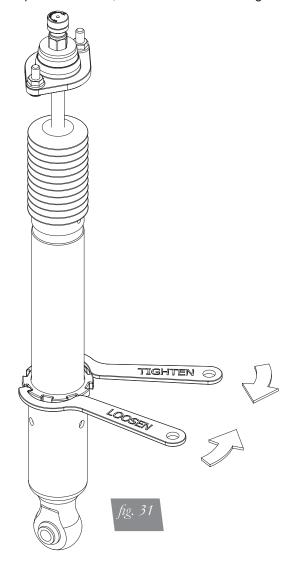
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ADJUSTING EXTENDED OR DROP HEIGHT USING LOWER MOUNT

Your shocks have been pre-set at the factory to provide maximum drop height while maintaining adequate tire clearance to the air spring. If you wish to gain more extended height (lift), which is the same as reducing drop height, or want to lower the chassis further and there is still adjustment available at the lower mount, please use the following procedure:

- 1. Support the vehicle with jack stands or a hoist at approved lifting points.
- 2. Remove the wheel.
- 3. Using the supplied spanner wrench, loosen the lower locking collar (fig. 31).



- 4. Deflate the air spring to 0 PSI on the corner you are adjusting.
- 5. Disconnect lower mount from suspension.
- 6. Spin the lower mount to the desired location.

NOTE

Not all models will have further drop height available.

- 7. Re-install lower mount to suspension and torque fasteners.
- 8. Tighten the lower locking collar to the lower mount using significant force.





WHEN ADJUSTING HEIGHT UPWARDS, MAKE SURE THAT THE SHOCK BODY ENGAGES ALL THE THREADS OF THE LOWER MOUNT (FIG. 32). WHEN ADJUSTING DOWNWARDS, MAKE SURE THERE IS ADEQUATE AIR SPRING CLEARANCE TO THE TIRE/WHEEL ASSEMBLY. CLEARANCE MUST BE CHECKED WITH SYSTEM FULLY DEFLATED AS WELL AS FULLY INFLATED TO ENSURE THAT NO RUBBING OCCURS. FAILURE TO MAINTAIN ADEQUATE CLEARANCE CAN RESULT IN AIR SPRING FAILURE AND WILL NOT BE COVERED UNDER WARRANTY.

A CAUTION

FOR STRUTS:

OK, no threads

showing.

DO NOT ADJUST HEIGHT BY SPINNING AIR SPRING ON STRUT! DOING SO MAY CAUSE AN AIR LEAK AND COMPROMISE THE ASSEMBLY.

FOR SHOCKS:

Thread MUST be showing in window.

Not OK, threads

are showing.



Before Operating



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

- 1. 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.
- 2. Inflate the air springs to 75-90 PSI and check all connections for leaks.
- 3. Air Lift part #27669 or #27671, AutoPilot V2 Air Management System, is highly recommended for this product.
- 4. Please familiarize yourself further with this product by reading the Product Use, Maintenance and Servicing section.

I	INSTALLATION CHECKLIST			
	Clearance test — Inflate the air springs to 75-90 PSI and make sure there is at least $1/2$ " clearance from anything that might rub against each sleeve. Be sure to check the tire, brake drum, frame, shock absorbers and brake cables.			
	Leak test before road test — Inflate the air springs to 75-90 PSI 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.			
Te	echnician's Signature			
D	ate			
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 — Regardless of load, the air pressure should always be			

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be consulted. Check all fasteners for tightness.

adjusted to maintain adequate ride height at all times while driving.

☐ Thirty day or 500 mile test — Recheck the air spring system after 30 days or 500 miles, 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



Product Use, Maintenance and Servicing

Suggested Driving Air Pressure	Maximum Air Pressure
60 PSI	125 PSI
FAILURE TO MAINTAIN AREQUATE MINIMUM PRECOURE (OR RECOURE	

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.

- 1. Check the air pressure before driving.
- Never inflate beyond 125 PSI.
- 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.
- 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, the threaded connection into the air spring, and all fittings in the control system.
- 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 possibly caused by a failed air spring — either a factory defect or an operating problem. Please call Air Lift at (800) 248-0892 for assistance.

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.

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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

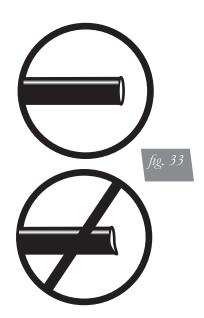
Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a perfectly level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess. Tuning out these problems usually requires additional air pressure, strut damping,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

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. 33). Reinsert the air line into the push-to-connect fitting.
 - 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 Performance 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 Performance 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 Performance • 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 Performance 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 Performance 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. 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.

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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.

