

Kit 75619

VW MKIV R32 Audi TT MKI Quattro *Rear Application*



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INSTALLATION GUIDE

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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 Volkswagen MKIV R32 and Audi TT MKI Quattro 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.

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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.

DANGER	INDICATES IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.		
WARNING	G INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEV PERSONAL INJURY OR DEATH.		
<u>A</u> CAUTION	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.		
NOTE	Indicates a procedure, practice or hint which is important to highlight. DO NOT INFLATE AIR SPRINGS WHILE OFF OF THE VEHICLE. DAMAGE TO ASSEMBLY MAY RESULT AND VOID WARRANTY.		

Installation Diagram



fig. 1

HARDWARE LIST

Item	Part #	Description Qty
Α	58527	Air spring2
В	11928	Roll plate2
С	21745	Connector, 1/4" MNPT x 1/4" PTC2
D	21853	Connector, 1/4" MNPT x 3/8" PTC2

TOOLS LIST

Description

Jack Safety stands or hoist Stepped drill bit Drill Metal cutting saw Metric wrenches Torque wrench



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

NOTE

Installing the Air Suspension

PREPARING THE VEHICLE

- 1. Elevate the vehicle and support the body with a hoist or safety stands. Trailing link must be free to move.
- 2. Remove the rear wheels.

If the vehicle is equipped with Auto-Leveling Headlight Control, detach the linkage from the lower control arm to prevent overextension (Fig. 2).



3. The recommended method for removal of the coil spring is with a spring compressor.

CAUTION

- COIL SPRING UNDER COMPRESSION.
 - a. The coil spring can be removed by securely supporting the axle with a jack and removing the lower shock mounting bolt (Fig. 3).



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b. Slowly lower the axle until the axle hangs free. Now the coil spring is free from

- fig. 4
- 4. Remove the coil spring isolators from the top and bottom (Fig. 5).

tension and can be removed (Fig. 4).



fig. 5

5. Detach the ABS sensor wire from the lower control arm (Figs. 6 & 7).

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6. Unclip the brake line from the two plastic clips attached to the chassis before the trailing arm. One of the clips is beside the gas tank and the other is in front of the gas tank (Figs. 8 & 9).



7. Support the trailing arm and unbolt the four bolts that attach to the chassis (Figs. 10 & 11).



8. Slowly lower the trailing arm (Fig. 12) and move the brake line away from the attaching clips to prevent kinking (Fig. 13).



fig. 12

9. Working at the upper coil spring perch: measure 15mm (.59") from the bottom of the nipple and mark a clear line (Figs. 14 & 15).







10. Cut across the marked line removing the 15mm (.59") of nipple then de-burr (Figs. 16 & 17).



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fig. 16

11. Center punch and drill a pilot hole through the center of the nipple (Figs. 18 - 20).



fig. 19



fig. 20

12. Using a stepped drill bit, drill large access holes for the air line to run through (Fig. 21).



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13. Make certain the hole is large enough to allow the air line to radius around into the chassis channel without kinking or abrading the air line (Fig. 22).



14. Place the recessed portion of the air spring over the spring perch nipple and verify the air spring will seat flush with the spring perch flats.

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INSTALLING THE AIR SPRING

1. Apply thread sealant to the threads of the air fitting. Thread fitting into the upper air spring end cap hand-tight (Fig. 23). Torque 1 3/4 turns beyond hand-tight.



2. Within the trunk, remove the carpeted flooring and the soft plugs will be revealed next to the side walls. Remove the soft plugs and the air line access hole drilled in step 12 can be seen within the chassis channel (Fig. 24).



3. Route the air line through the access hole and into the trunk (Figs. 25 - 30).

TIP: Using a guide wire through the trunk to the access hole created will make routing the air line easier (Fig. 25).



fig. 25







fig. 28

fig. 27







fig. 30

4. Lift the trailing arm and reattach the four previously removed bolts that attach the trailing link to the chassis (Figs. 31 & 32).







5. Reattach the brake lines and ABS sensor wire (Figs. 33 - 35).

С



fig. 33

fig. 34



6. Insert the air supply line into the air fitting (Fig. 36).



fig. 36

7. Collapse the air spring and nest the air spring upper end cap around the upper coil spring perch (Fig. 37). Locate the air spring lower end cap pin into the trailing link hole (Fig. 37).



fig. 37

8. Reinstall the lower end-link/shock-eye bolt (Fig. 38). Do not torque at this time.

Torquing of this and all bushing bolts should be done at the new desired ride height.



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fig. 38

9. Reinstall the wheels.

NOTE

ROUTING THE AIR LINE TIPS

1. Remove the luggage compartment trim cover and side trim (Figs. 39 & 40). (R32 shown)





- 2. Two options for routing (Figs. 41 & 42):
 - a. Drill a 1/2" (13mm) or larger hole against the wheel housing. Cut a straight line from the soft plug hole over to the newly drilled hole. Fold the metal between the two holes along the cut line. Slide the air line over to the new hole against the wheel housing. Fold the metal back down flat. Apply grommet material around the hole. Reinstall the soft plug.
 - b. Grind material away from the soft plug hole to the wheel housing. Apply grommet material around the sharp edges. Move the air line over to the wheel housing and reinstall the soft plug.



- 3. Decide where the control system will be located and route the remaining air line accordingly.
- 4. With the air line against the wheel housing, reinstall the luggage compartment trim.

Before Operating

SETTING THE RIDE HEIGHT

1. Refer to the User Guide supplied with this kit to set up the suspension.

Torque Specifications					
Location	Nm	lbft.			
Upper transverse link bolts/nuts	70 +90 degrees	51.6 +90 degrees			
Lower transverse link bolts/nuts	70 +90 degrees	51.6 +90 degrees			
Rear axle bearing bracket (front trailing arm bushing)	90	66.4			
Trailing arm bracket to chassis bolts	75	55.3			
Upper shock eye bolt	60	44.2			
Lower shock eye/end link bolt	110	81			
Wheel fastener	120	88.5			
Auto-leveling headlight linkage nut	5	3.7 (44.5 lbsin.)			
Wheels	120	89			

Table 1

Suggested Driving Air Pressure	Maximum Air Pressure			
40-60 PSI (2.8-4.1BAR)	125 PSI (8.6BAR)			
FAILURE TO MAINTAIN ADEQUATE MINIMUM PRESSURE (OR PRESSURE PROPORTIONAL TO LOAD) MAY RESULT IN EXCESSIVE BOTTOMING OUT AND WILL VOID THE WARRANTY.				

Table 2

INSTALLATION CHECKLIST

- □ **Clearance** Inflate the air springs to 75-90 PSI (5.2-6.2BAR) and make sure there is at least 1/2" (13mm) clearance from anything that might rub against the air spring. This should be checked with the air spring fully inflated and fully deflated.
- □ Leak Inflate the air springs to 75-90 PSI (5.2-6.2BAR) and check all connections for leaks. All leaks must be eliminated before the vehicle is road tested.
- □ **Heat** Be sure there is sufficient clearance from heat sources, at least 6" (152mm) from 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** Recheck all bolts for proper torque.
- □ **Road** Inflate the air springs to recommended driving pressures (Table 2). Drive the vehicle 10 miles (16km) 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 paperwork that came with the kit.

Limited Warranty and Return Policy

Air Lift Company provides a 1-year limited warranty to the original purchaser of Air Lift Performance damper kits from the date of original purchase, that the products will be free from defects in workmanship and materials when used on vehicles as specified by Air Lift Company and under normal operating conditions, subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy that is available online at www.airliftperformance.com/warranty.

For additional warranty information contact Air Lift Company customer service.

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NEED HELP?

The Air Lift Company customer service department is open from 8 a.m. to 8 p.m. ET Monday through Friday. Call (800) 248-0892 or (517) 322-2144 for calls from outside the U.S. and Canada.

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