



VOLKSWAGEN MKVII

REAR APPLICATION

Kit 76503

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 which could result in damage to the vehicle, minor to severe personal injury or death.

Protect your Air Lift Performance Purchase by Completing your Warranty Registration



Thank you for purchasing an Air Lift Performance product!

Take a photo of your sales receipt and then scan the
QR code to complete your online warranty registration.

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Introduction

Air Lift Performance thanks you for purchasing the most complete, fully engineered high-performance air suspension made for the Volkswagen MKVII platform. Read these installation instructions to correctly and safely set up the vehicle for a #lifeonair.

Air Lift assumes that the installer has the mechanical knowledge and ability to work on vehicle suspension systems and has basic tools necessary to complete a suspension replacement project. Special tools needed to complete the installation are noted on the System Overview page.

Air Lift 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 **www.airliftperformance.com**.

An Air Lift Performance air management system is highly recommended for this product. Learn more at **air-lift.co/productlines**.

NOTATION EXPLANATION

Hazard notations appear in various locations in this publication. Information 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

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.



CAUTION

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN DAMAGE TO THE VEHICLE OR MINOR PERSONAL INJURY.



NOTE

Used to help emphasize areas of procedural importance and provide helpful suggestions.



TECH TIP

Used to provide helpful tips to ease the installation process.

System Overview

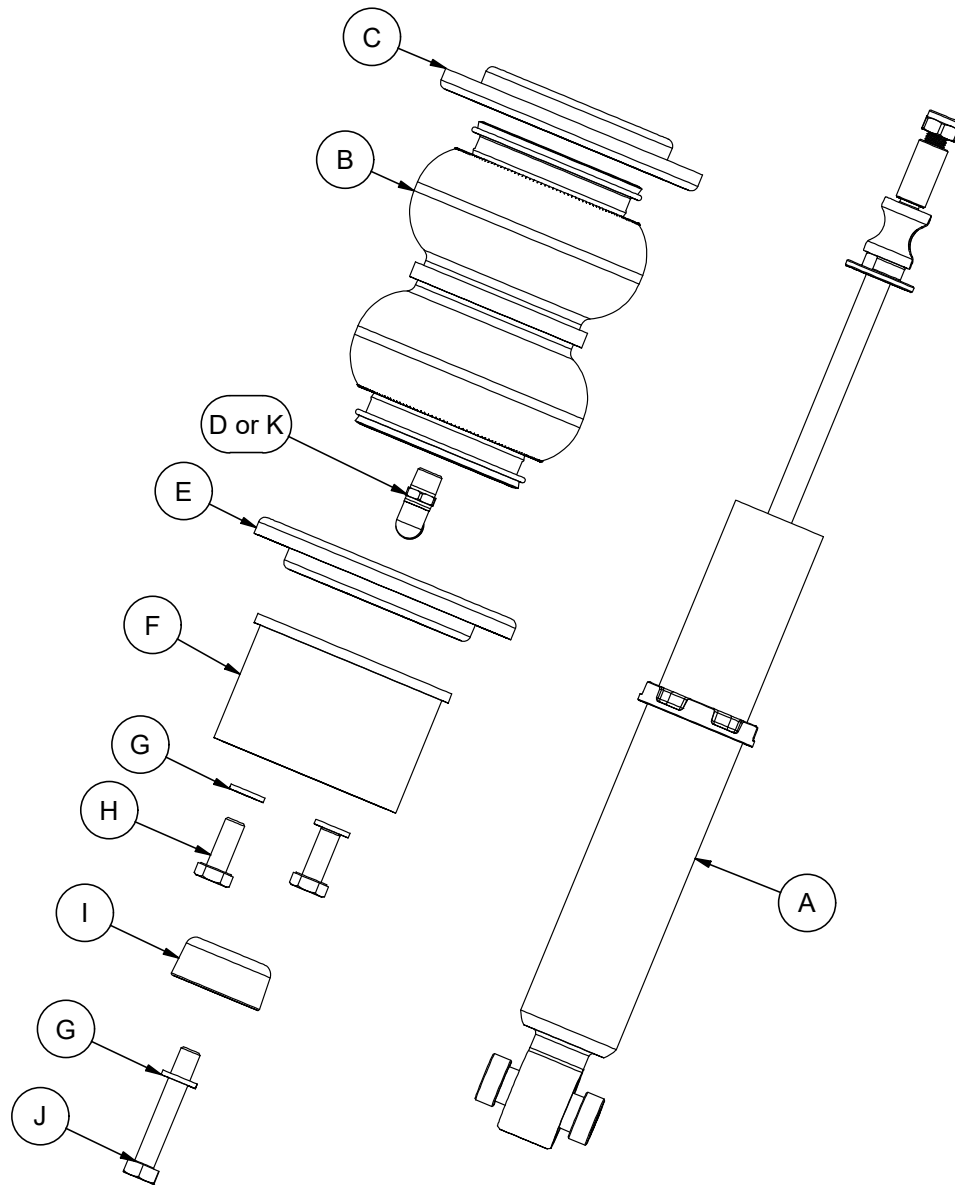


Fig. 1

HARDWARE CONTENT

Item	Part #	Description	Qty
A	39121	SHOCK, MK7 REAR	2
B	58547 B	AIR SPRING, 2B5, RECESS	2
C	11805	ROLL PLATE - 2B5 MKVII UPPER	2
D	21779	1/4" MNPT X 1/4" PTC ELBOW FITTING - DOT	2
E	11803 A	ROLL PLATE - 2B5	2

Item	Part #	Description	Qty
F	03052 C	BRACKET, LOWER REAR	2
G	18628	M10, SPLIT LOCK WASHER	6
H	17517	M10-1.5x25 HEX CAP SCREW	4
I	13991	CENTERING SPACER, MKVII	2
J	17930	M10X1.5X60 HEX CAP SCREW	2
K	21851	1/4" MNPT X 3/8" PTC, ELBOW FITTING - DOT	2



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

Install the System

**NOTES**

See important safety notices on page 2.

SECTION 1. PREPARE THE VEHICLE

1. Elevate and support the vehicle with a hoist or safety stands. Remove the rear wheel (Figs. 2 & 3).



Fig. 2



Fig. 3

SECTION 2. STOCK SUSPENSION REMOVAL

1. If the vehicle has the headlamp alignment system, unclip the armature from the bracket attached to the control arm. If it doesn't have this feature, skip to step 2. (Fig. 4).
2. Unbolt the stabilizer end link from the lower control arm. Disconnect the end link from the opposite side control arm (Figs. 5 & 6).



Fig. 4



Fig. 5



Fig. 6

- Remove the nut from the lower shock eye mount (Fig. 7).



Fig. 7

- Remove the outer hub-to-control arm bolt and nut (Fig. 8).



Fig. 8



CAUTION

THE COIL SPRING IS UNDER PRESSURE. USE A JACK TO SUPPORT THE LOWER CONTROL ARM BEFORE REMOVING THE HUB AND SHOCK BOLTS.

- Remove the shock and hub bolts (Fig. 9) and slowly lower the arm until the coil spring is free to remove (Figs. 10 & 11).



Fig. 9



Fig. 10

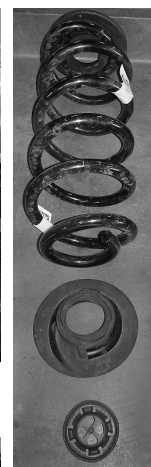


Fig. 11

- Remove the fender liner and unbolt the shock upper mount (Fig. 12). Remove the assembly from the vehicle (Fig. 13).

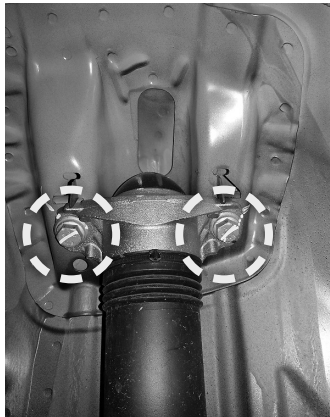


Fig. 12



Fig. 13

SECTION 3. INSTALL THE KIT COMPONENTS



PLEASE READ - IMPORTANT INSTALLATION INFORMATION



FOR COIL TO AIR UPGRADE KIT INSTALLATIONS ONLY: Please refer to the included Coil to Air Upgrade Kit installation guide (MN-2000) for details on how to disassemble the coilovers and assemble the air springs.

Also refer to your control system installation guide to ensure the installation of your air suspension system is complete.



NOTES

All dampers come pre-set to even lengths, and locking collars are pre-tightened. It is always recommended to double-check that the dampers are the same length side to side, and the locking collars are tight.

Please refer to the User Guide included with the kit for any suspension setup adjustments.

- Disassemble the stock rear shock from the upper mount. Remove the lower dust cover and jounce bumper from the mount (Fig. 14). Install the upper mount to the Air Lift Performance shock (Figs. 15 & 16). Torque rod nut to 27Nm (20 lb.-ft.).

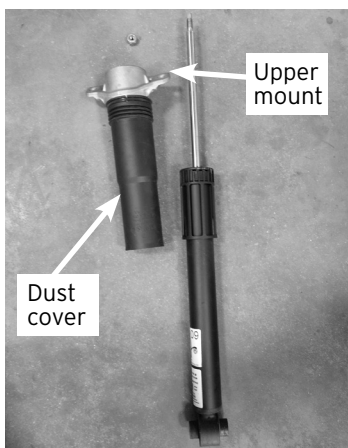


Fig. 14



Fig. 15



Fig. 16

2. Apply the plastic cap to the top of the mount and reattach it to the vehicle chassis. Torque upper chassis bolts to 50Nm + 90 degrees (37 lb.-ft. + 90 degrees) (Fig. 17).



Fig. 17



CAUTION

TORQUE-TO-YIELD BOLTS ARE DESIGNED TO BE REPLACED AFTER LOOSENING. TORQUE TO YIELD BOLTS HAVE AN ANGULAR TORQUE IN ADDITION TO THE TORQUE SPECIFICATION.

3. Lift the control arm, align the shock eye and attach with the shock eye bolt and nut. Do not torque at this time (Fig. 18).



Fig. 18

4. Align the stabilizer end link and slide the bolt through the control arm and cap with the previously removed nut. Torque to 45Nm (33 lb.-ft.) (Fig. 19).



Fig. 19

5. Tighten the fitting to the air spring 1 3/4 turns beyond hand-tight (Fig. 20).

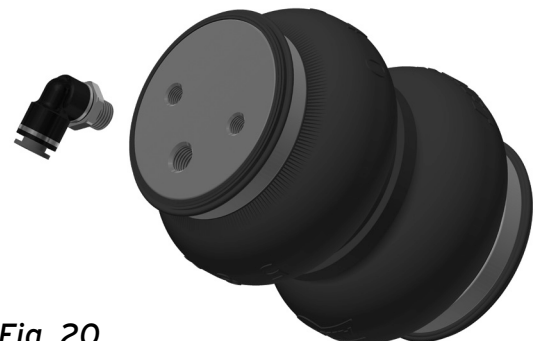
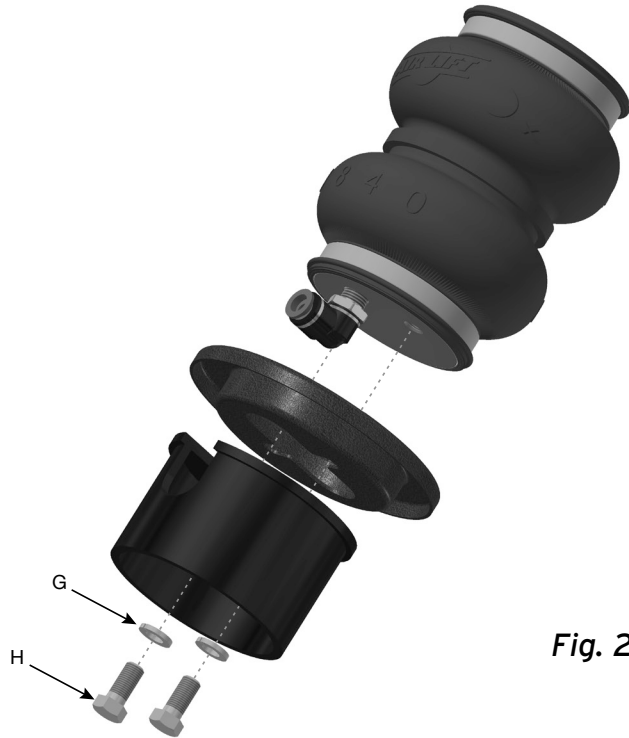


Fig. 20

- Place the roll plate on the bottom of the air spring. Install two 3/8"-24 x 7/8" hex bolts (H) with lock washers (G) through the spring seat into the air spring. Torque to 27Nm (20 lb.-ft.) (Fig. 21).

*Fig. 21*

- Insert the assembly into the spring pocket with the air fitting pointed away from the wheel. Nest the upper roll plate over the air spring assembly (Figs. 22 & 23).

*Fig. 22**Fig. 23*

- Attach the air line. Leave the air line loose until the air spring installation is complete.

9. Install a 3/8" lock washer (G) and 3/8"-24 x 2" hex cap screw (J) and insert through the centering spacer (I) and the factory lower spring seat and thread into the provided spring seat. Torque the bolt to 27Nm (20 lb.-ft.) (Fig. 24).

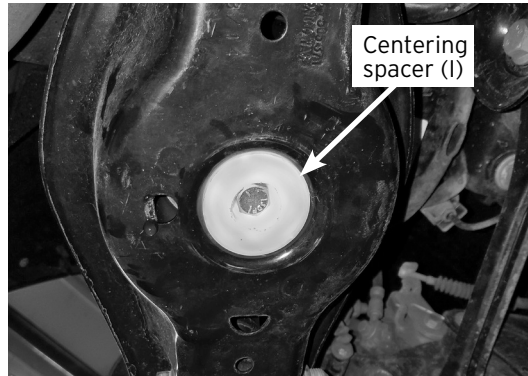


Fig. 24

10. Reinstall the headlight alignment linkage if equipped.

SECTION 4. ROUTE THE AIR LINES



WARNING

AFTER INSTALLATION, ENSURE ALL ORIGINAL EQUIPMENT VEHICLE SAFETY FEATURES ARE PROPERLY CALIBRATED BY A QUALIFIED TECHNICIAN. CHANGING VEHICLE HEIGHT MAY AFFECT FUNCTIONING OF SAFETY SENSORS AND CAMERAS.

1. Fully compress the suspension using a jack. With the suspension compressed, review the best routing for the air line that is clear of all suspension components and axle.
2. Routing should allow for the suspension to extend and steer without kinking, 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.



PLEASE READ - IMPORTANT INSTALLATION INFORMATION

Please refer to your control system installation guide for more details on air line routing and to ensure the installation of your air suspension system is complete.

FINISHED INSTALLATION PHOTO



Fig. 25

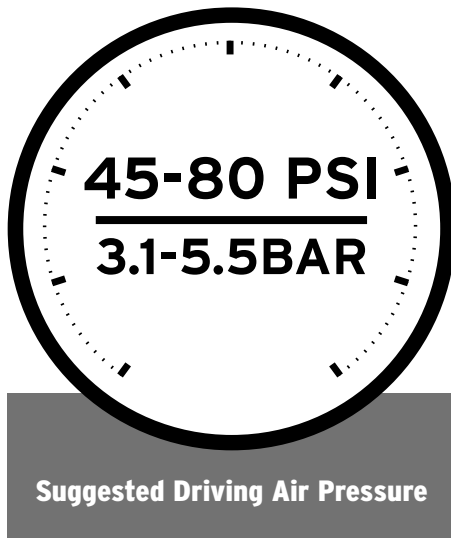
Before Operating

SET THE RIDE HEIGHT

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

Torque Specifications		
Location	Nm	lb-ft
Lower control arm cam bolt	95	70
Lower control arm to stabilizer end link bolt	45	33
Lower control arm to shock eye bolt	95	70
Lower control arm to hub	90 + 90 degrees	66 + 90 degrees
Shock mount to chassis	50 + 90 degrees	37 + 90 degrees
Shock rod nut	27	20
Upper transverse link to subframe	95	70
Upper transverse link to hub	130 + 90 degrees	96 + 90 degrees
Tie rod to subframe	90 + 90 degrees	66 + 90 degrees
Tie rod to hub	130 + 90 degrees	96 + 90 degrees
Wheel studs	120	89
Braided air line threads	1 3/4 turns beyond hand-tight	

2. Upon successful completion of the installation, follow these pressure requirements for the air springs.



CAUTION

FAILURE TO MAINTAIN ADEQUATE MINIMUM PRESSURE (OR PRESSURE PROPORTIONAL TO LOAD) MAY RESULT IN EXCESSIVE BOTTOMING OUT AND **WILL VOID THE WARRANTY.**

CHECK FOR BINDING



CAUTION

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

1. Inflate and deflate the system (do not exceed 8.6BAR [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 5.2-6.2BAR (75-90 PSI) and check all connections for leaks.

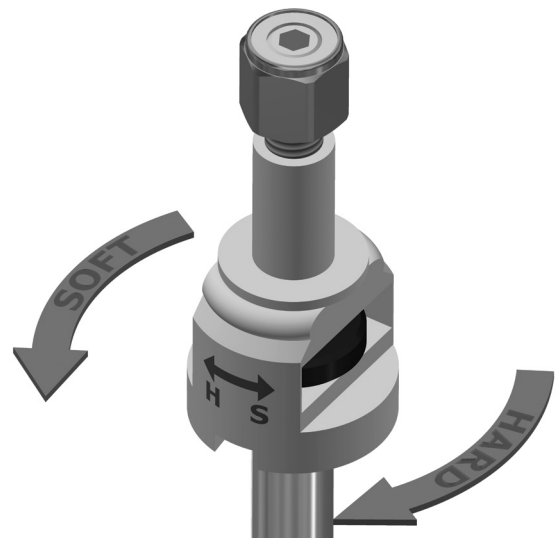
INSTALLATION CHECKLIST

- Clearance** – Inflate the air springs to 5.2-6.2BAR (75-90 PSI) and make sure there is at least 13mm (1/2") 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 5.2-6.2BAR (75-90 PSI) 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 152mm (6") 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 (see previous page). Drive the vehicle 16km (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 paperwork that came with the kit.

DAMPING ADJUSTMENT

1. The dampers in this kit have 32 settings, or “clicks,” of adjustable compression and rebound damping characteristics. Damping is changed through the damper rod using the supplied adjuster (example shown here) or a 3mm hex key (not included).
2. Turn the adjuster clockwise (H), and the damping settings are hardened, reducing oscillations and body motion. Turn the adjuster counterclockwise (S), and the damping is softened.
3. Each damper will need to be set after installation and your initial drive, as they are not pre-set. It may take multiple adjustments to dial in your ideal ride. A good starting point is in the middle at 16 clicks from full soft, then drive the vehicle and make adjustments either softer or stiffer.

For more information, refer to the user guide.



Limited Warranty and Return Policy

Air Lift Company provides a limited warranty* to the original purchaser of Air Lift Performance Air Suspension kits 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 Air Lift Company and under normal operating conditions, subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy.

* Full Limited Warranty and Return Policy are available at www.airliftperformance.com/warranty and are subject to change.

WARRANTY REGISTRATION & CLAIMS

- To register your warranty, please visit <https://www.airliftperformance.com/support/warranty-registration/>
- To submit a warranty claim, please visit <https://www.airliftperformance.com/support/submit-warranty-claim/>

Thank you for purchasing Air Lift Performance products!

Need Help?

Contact Air Lift Company Customer Service at (800) 248-0892 or +1 (517) 322-2144 for calls from outside the U.S. and Canada.



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PERFORMANCE

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