

AIR LIFT
PERFORMANCE®

INSTALLATION GUIDE



TOYOTA CAMRY XV70 XSE/SE/XLE/LE

REAR APPLICATION

Kit 76519

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 Toyota Camry XV70 XSE/SE/XLE/LE. 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

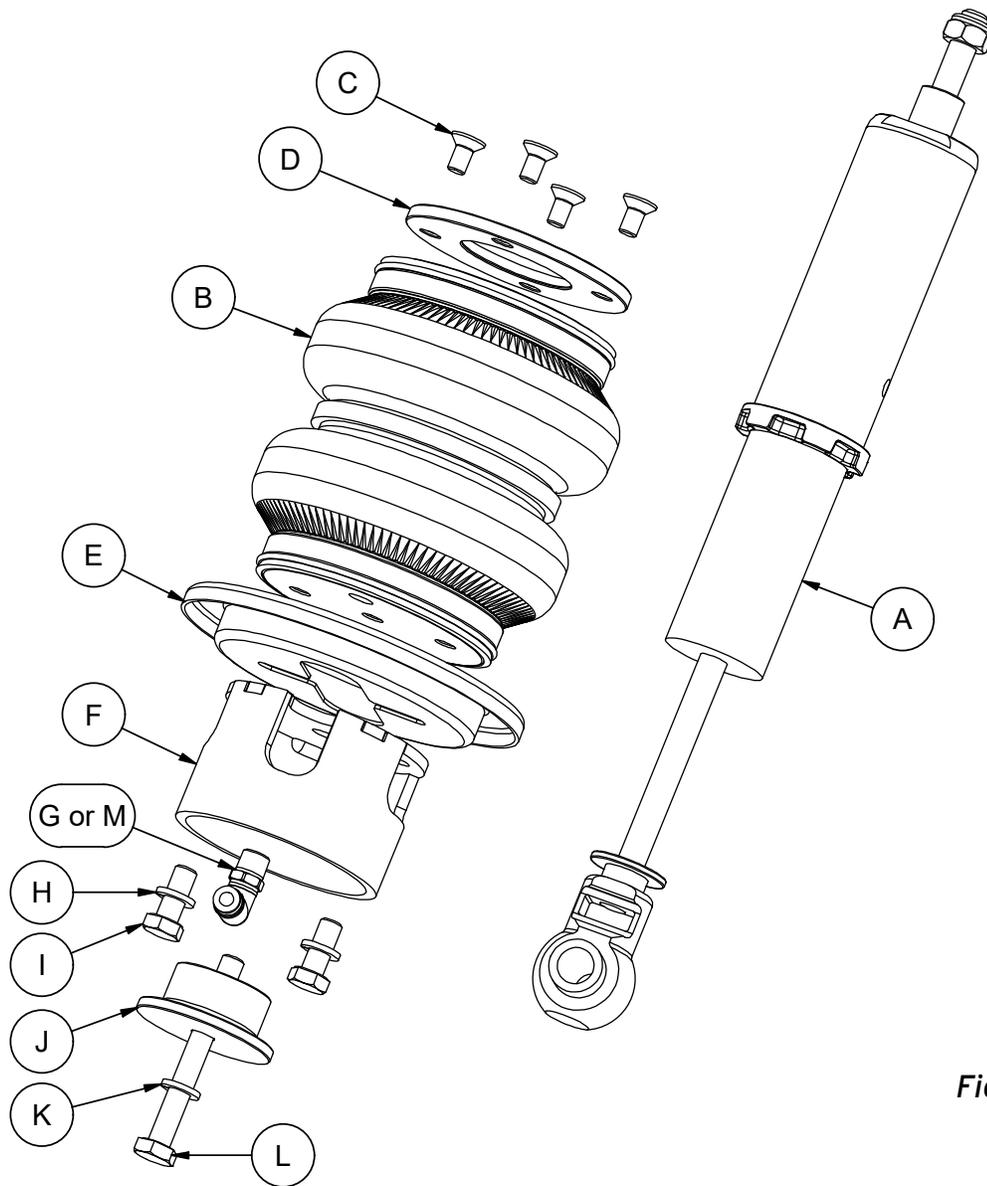


Fig. 1

HARDWARE CONTENT

Item	Part #	Description	Qty
A	39161	SHOCK, XV70 SE, REAR	2
B	58555	AIR SPRING	1
C	17929	M8-1.25 X 16 FLAT HEAD SOCKET CAP SCREW	8
D	13326	SPACER, UPPER	2
E	11801 C	ROLL PLATE	2
F	03051	BRACKET, TOYOTA XV70, REAR, LOWER	2

Item	Part #	Description	Qty
G	21779	1/4" MNPT X 1/4" PTC ELBOW FITTING - DOT	2
H	18628	M10 SPLIT LOCK WASHER	6
I	17517	M10-1.5 x 25 HEX CAP SCREW	4
J	13996	CENTERING SPACER	2
K	17934	M10-1.5 X 90 HEX CAP SCREW	2
L	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. Raise vehicle and support suspension with safety stands (Fig. 2). Remove the wheel (Fig. 3).



Fig. 2



Fig. 3

SECTION 2. STOCK SUSPENSION REMOVAL



DANGER

THE COIL SPRING IS UNDER COMPRESSION. THE COIL SPRING SHOULD BE REMOVED USING FACTORY PRESCRIBED GUIDELINES.

1. Remove lower control arm outer pivot bolt (Fig. 4) and loosen inner pivot bolt (Fig. 5), but do not remove. Lower control arm with jack to release coil spring pressure. Remove coil spring from vehicle (Figs. 6 & 7).



Fig. 4



Fig. 5



Fig. 6



Fig. 7

2. Support rear knuckle with jack (Fig. 8). Remove rear upper control arm outer pivot bolt (Figs. 9 & 10).



Fig. 8



Fig. 9



Fig. 10

3. Remove lower shock mount nut and upper shock mount bolts (Figs. 11-14).



Fig. 11

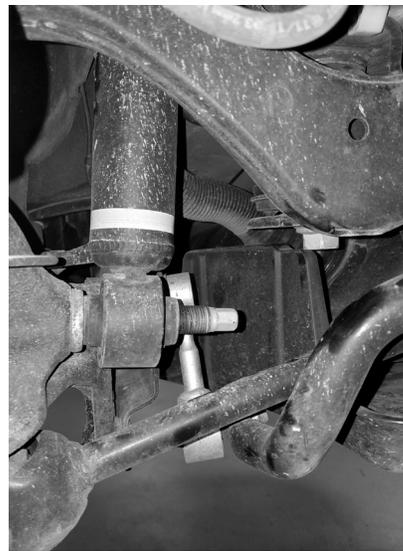


Fig. 12

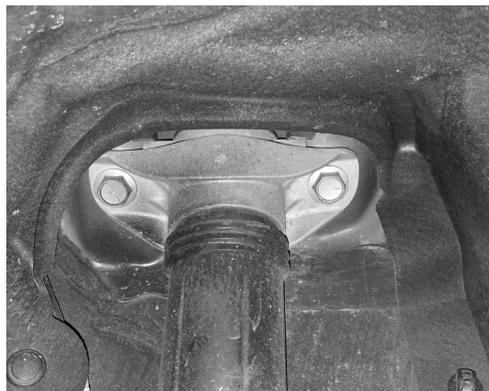


Fig. 13



Fig. 14

4. Tilt rear knuckle away from vehicle to allow removal of rear shock (Figs. 15 & 16).



Fig. 15



Fig. 16

5. Remove upper shock mount dust cap (Fig. 17). Loosen and remove upper shock mount nut (Fig. 18). Remove upper mount and dust boot/jounce bumper. Separate the dust boot/jounce bumper from upper mount (Fig. 19).



Fig. 17



Fig. 18



Fig. 19

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.

1. Install the OEM upper shock mount on the Air Lift Performance shock (A) (Figs. 20 & 21). Install and torque the included nylon lock nut to 20Nm (15 lb.-ft.) (Fig. 22). Reinstall OEM dust cap (Fig. 23).

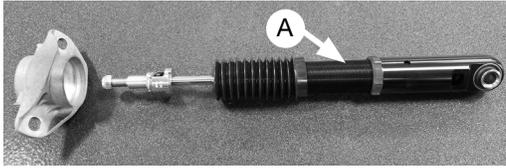


Fig. 20



Fig. 21



Fig. 22



Fig. 23

2. Install the Air Lift Performance lower shock mount onto the rear knuckle. Insert the the upper shock mount into the chassis and install the previously removed bolts (Fig. 24). Torque the upper shock mount bolts to 55Nm (41 lb.-ft.) Install the lower shock mount nut but do not torque nut at this time (Fig. 25).

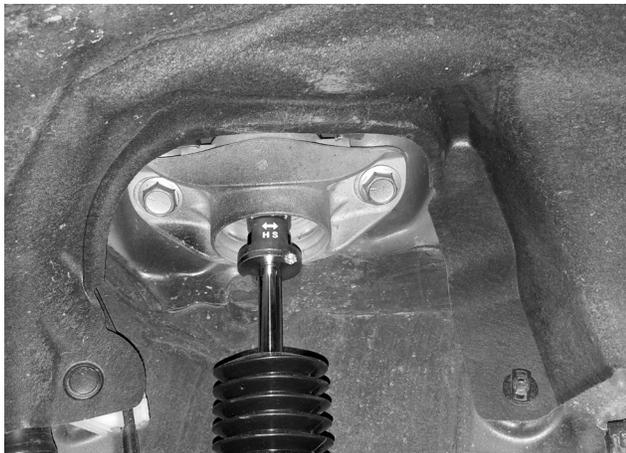


Fig. 24



Fig. 25

3. Reinstall the upper control arm and upper control arm outer pivot bolt (Fig. 26). Do not torque bolt at this time.



Fig. 26

4. Raise the lower control arm and reinstall the lower control arm outer pivot bolt (Fig. 27). Do not torque bolt at this time.

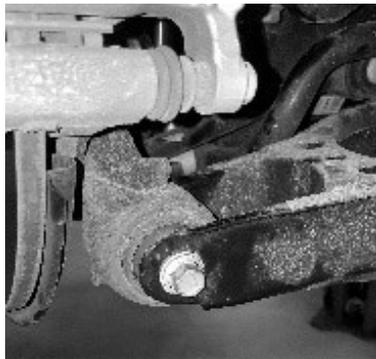


Fig. 27

5. Install fitting (G or L) in the air spring (D). Tighten fitting 1 1/2 turns beyond hand-tight. Install roll plate (E) and lower air spring bracket (F) with two M10-1.5 x 25 hex cap screw bolts (I) and two M10 split lock washers (H) (Fig. 28). Torque M10 bolts to 46Nm (34 lb.ft.).

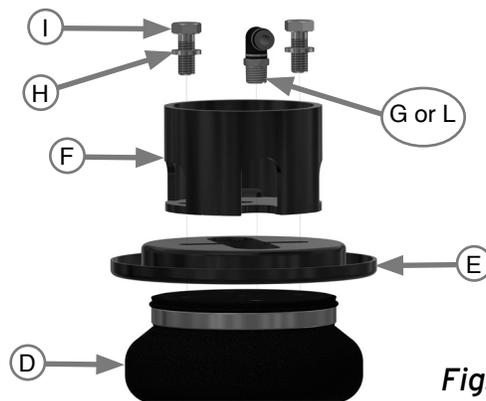


Fig. 28

6. Route air line past the inner pivot bolt and through lower control arm (Fig. 29). Insert air line into air spring fitting and place air spring into lower control arm (Fig. 30).



Fig. 29



Fig. 30

- Center air spring assembly in lower control arm spring pocket (Fig. 31). Install centering spacer (J) with M10-1.5 x 90 hex cap screw bolt (K) and M10 split lock washer (H) (Fig. 32) and torque bolt to 46Nm (34 lb.-ft.). Ensure air line and fitting are still pointing inboard toward pivot point before torquing bolt.



Fig. 31

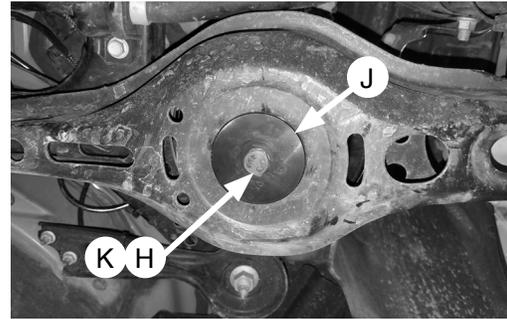


Fig. 32

- Before reinstalling the wheel, inflate the air spring to 25 PSI (1.7BAR) to seat the upper air spring mount against the chassis (Fig. 33).



Fig. 33

- Reinstall the wheels and torque wheel lugnuts to 103Nm (76 lb.-ft.).
- Torque all bolts and fasteners at ride height, per the Torque Specifications chart (Table 1).

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.

- 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.
- 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.

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.
Upper shock mount to Air Lift Performance shock	20	15
Upper shock mount to chassis bolts	55	41
Lower shock mount nut	125	92
Upper control arm outer pivot bolt	73	54
Lower control arm outer pivot bolt	73	54
Lower control arm inner pivot bolt	100	74
Air spring lower bracket bolts	46	34
Centering spacer bolt	36	34
Fitting	1 3/4 turns beyond hand-tight	
Wheel lugnuts	103	76

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



Suggested Driving Air Pressure



Maximum Air Pressure



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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2727 Snow Road Lansing, MI 48917 or P.O. Box 80167 Lansing, MI 48908-0167
Toll Free (800) 248-0892 • Local (517) 322-2144 • Fax (517) 322-0240
www.airliftperformance.com



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