

AIR LIFT
PERFORMANCE

INSTALLATION GUIDE



Kit 78702

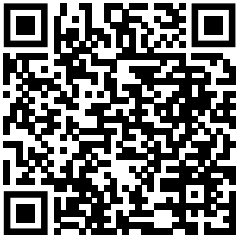
Acura TLX
REAR APPLICATION

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

MN-1179 • (012302) • ERN 10054

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 2021+ Acura TLX FWD & AWD. 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 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

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



CAUTION

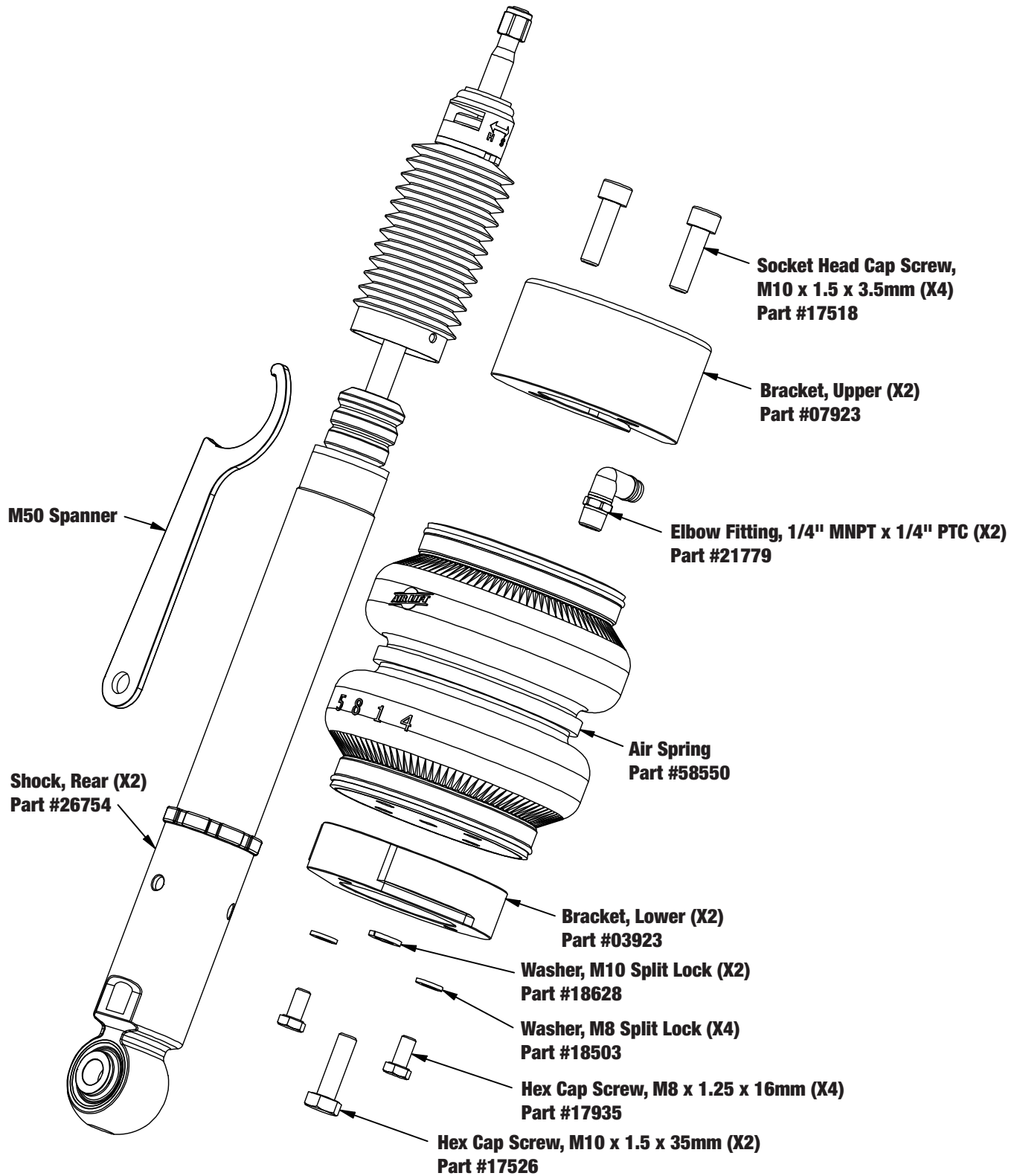
INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN DAMAGE TO THE VEHICLE OR MINOR PERSONAL INJURY.



NOTE

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

System Overview



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

Installing the System

IMPORTANT SAFETY NOTICES



DO NOT INFLATE AIR SPRINGS WHILE OFF OF THE VEHICLE. DAMAGE TO ASSEMBLY MAY RESULT AND VOID WARRANTY.



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



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.

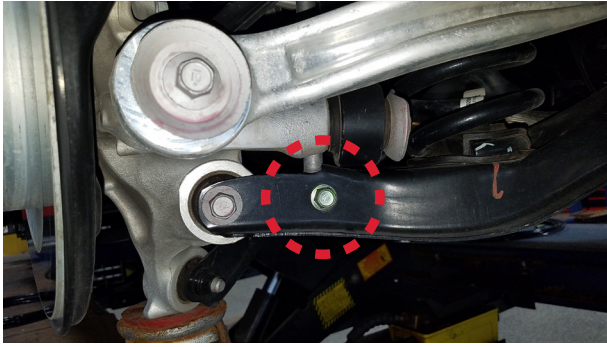
SECTION 1.

REMOVE THE SUSPENSION

1. Raise the vehicle and remove the wheel. Support the suspension with a jack.



- Loosen and remove the sway bar end link bolt.



- Loosen and remove the lower shock mount bolt. Separate the shock from the rear suspension knuckle.

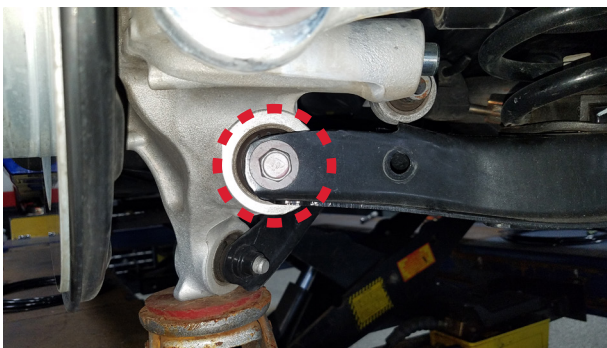


- Loosen but do not remove the lower control arm inner pivot bolt.



NOTE Support the lower control arm with a jack before removing the bolt.

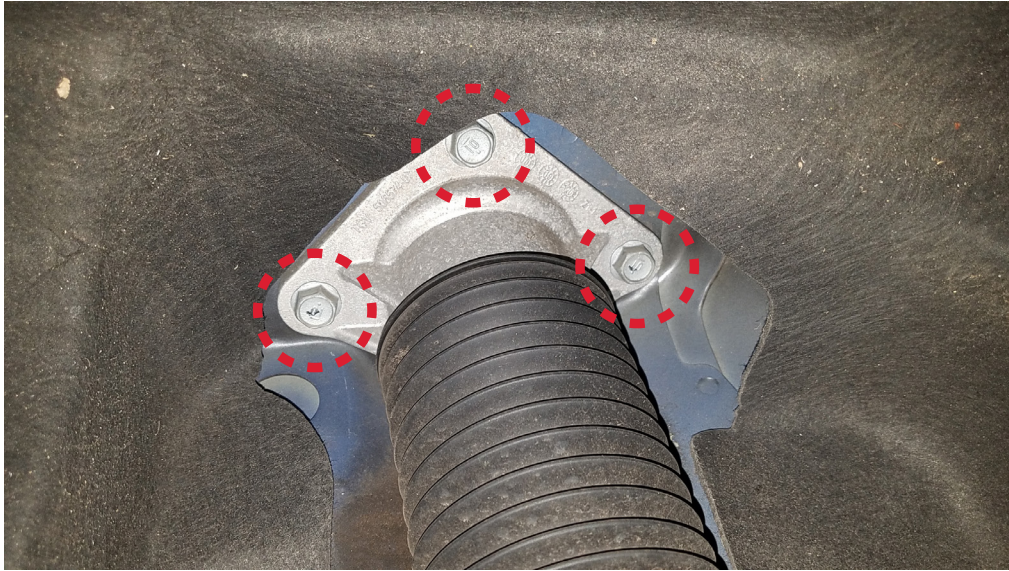
- Loosen and remove the lower control arm outer pivot bolt.



6. Slowly lower the jack to release the pressure of the spring. Remove the spring and both rubber isolators (lower and upper) from the vehicle.



7. Loosen and remove the rear shock upper mount bolts. Remove the shock from the vehicle.



SECTION 2. INSTALL THE AIR SUSPENSION

1. Remove the dust cover from the rear shock upper mount. Loosen and remove the rear shock upper mount nut. Separate the rear shock upper mount from the damper. Next, separate the jounce bumper dust shield from the rear shock upper mount.



2. Install the rear shock upper mount on the Air Lift Performance shock with the included nylon locking nut. Torque the nut to 30Nm (22 lb.-ft.). Reinstall the dust cover on the rear shock upper mount.



3. Insert the rear shock upper mount into the chassis and reinstall the upper mount bolts. Torque the bolts to 37Nm (27 lb.-ft.).



4. Rejoin the rear shock lower mount with the rear steering knuckle. Reinstall the rear shock lower bolt and torque it to 131Nm (97 lb.-ft.).



5. Install the fitting into the rear air spring 1 and 3/4 turns beyond finger-tight. Install the rear air spring upper mount with the included M10 x 1.5 x 35mm socket head cap screws. Torque the upper mount bolts to 37Nm (28 lb.-ft.).



6. Install the rear air spring on the lower control arm by aligning the M8 threaded holes on the lower air spring mount to the two holes in the lower control arm spring seat. Fasten the air spring to the control arm using the included M8 x 1.25 x 16mm hex cap screws and M8 lock washers. Torque the M8 hex cap screws to 20Nm (15 lb.-ft.).



7. Raise the lower control arm and loosely reinstall the outer pivot bolt. Do not torque the lower control arm outer pivot bolt at this time. Rejoin the sway bar end link with the lower control arm. Torque the sway bar end link bolt to 83Nm (61 lb.-ft.).



8. The air spring lower mount center bolt can be loosened to allow rotation of the air spring for alternate air hose fitting orientation and routing. Torque the air spring lower mount center bolt to 37Nm (28 lb.-ft.).



9. Set the vehicle at ride height and torque the inner and outer lower control arm pivot bolts to 10Nm (76 lb.-ft.).



SECTION 4. ROUTE THE AIR LINES



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.

Finished Installation

The image shows the finished installation.



Congratulations!

You are now the proud owner of an industry leading Air Lift Performance air suspension system. Enjoy!

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.
Rear shock upper mount nut	30	22
Rear shock upper mount bolts	37	27
Rear shock lower mount bolt	131	97
Air spring upper mount bolts	37	28
Air spring M8 attaching bolts	20	15
Sway bar end link bolt	83	61
Lower control arm inner pivot bolt	103	76
Lower control arm outer pivot bolt	103	76
Wheel lugnuts	127	94

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



Suggested Driving Air Pressure



Maximum Air Pressure



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



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

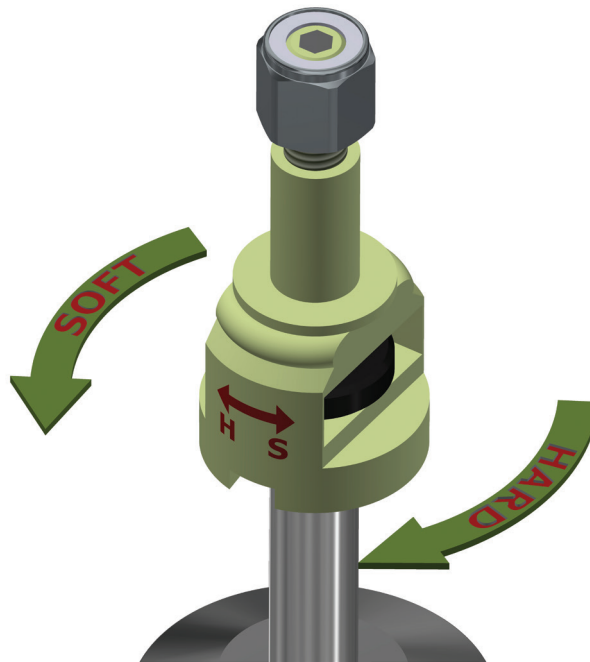
1. Inflate and deflate the system (do not exceed 5.9BAR [85 PSI]) to check for clearance or binding issues. With the air springs deflated, check clearances on everything so as not to pinch brake lines, vent tubes, etc. Clear lines if necessary.
2. Inflate the air springs to 5.2-5.9BAR (75-85 PSI) and 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 30 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 in this kit is preset to “-14 clicks.” This means that the damper is adjusted 14 clicks away from full stiff, which starts at 0. Counting up from full stiff is the preferred method of keeping track of, or setting, damping. This setting was developed on a 2021 Acura TLX A-Spec front wheel drive (FWD).

For more information, refer to the User Guide.

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 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?

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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