Kit 75527

Chrysler LX, LD, LC Platform
300C, Charger, Challenger
and Magnum

(includes SRT 8 models,
excludes AWD models)

Front Application

INSTALLATION GUIDE

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.

MN-874 • (031910) • ECR 9416

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Introduction

Air Lift Performance thanks you for purchasing the most complete, fully engineered high-performance air suspension made for the Chrysler LX, LD, LC Platform 300C, Charger, Challenger, and Magnum. 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 the project. Special tools needed to complete the installation are noted on the *Installation Diagram* 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 MACHINE OR MINOR PERSONAL INJURY.

NOTE — *Indicates a procedure, practice or hint which is important to highlight.*

Important Safety Notices

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

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

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.

Installation Diagram

HARDWARE LIST

Item	Part #	Description	Qty
A	35225	Shock assembly, Chrysler LX, LD, LC front	2
B	20997	Leader line, 1/4" ID	2
C	21810	1/4" FNPT x 1/4" PTC "DOT" fitting	2
D*	21987	1/4" FNPT x 3/8" PTC "DOT" fitting	2
E	17474	M14 x 2 x 110 Hex bolt	2
F		Spanner wrench	1

*1/4" FNPT x 3/8" PTC fittings are NOT included in this kit, but are available as a special order.

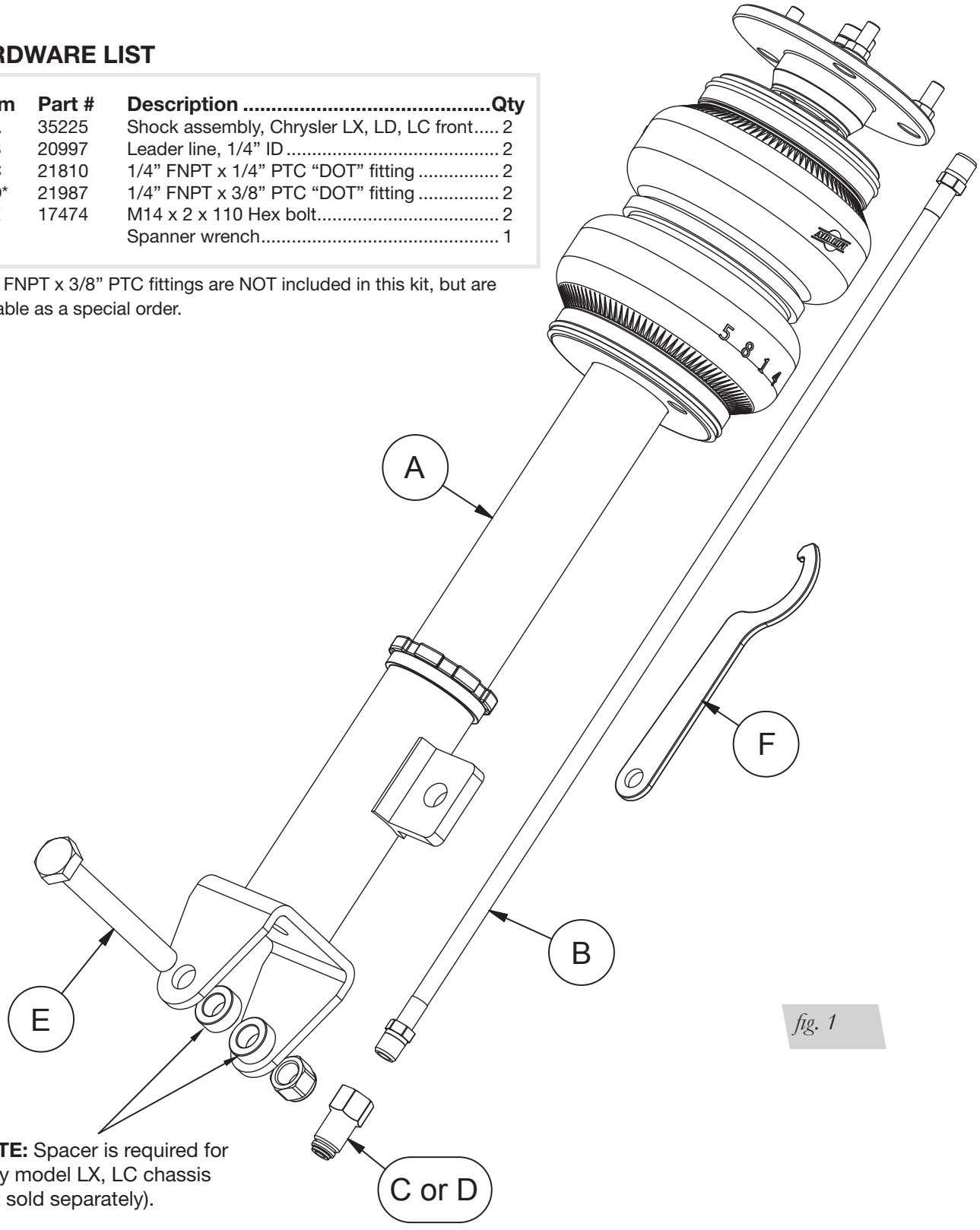

fig. 1

NOTE: Spacer is required for early model LX, LC chassis (not sold separately).

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

Installing the Air Suspension

PREPARING THE VEHICLE

1. Elevate and support the vehicle using its approved lifting points.
2. Remove the front wheels (Fig. 2).

fig. 2

REMOVAL OF STOCK SUSPENSION

1. Support the spindle using jack.
2. Locate the shock cover under the hood of the car (Fig. 3).

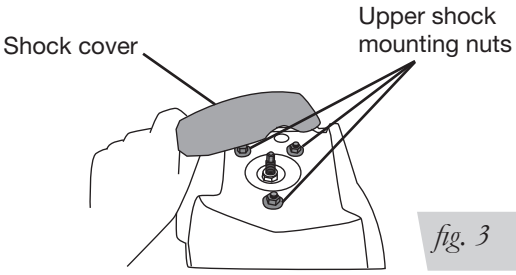

fig. 3

3. Remove the shock cover and loosen the upper shock mounting nuts (Fig. 4).

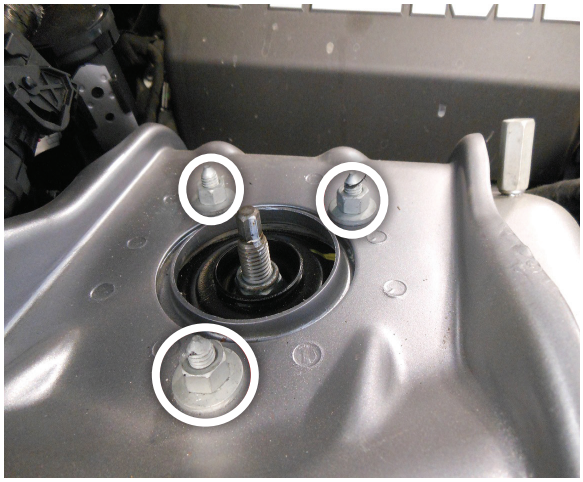

fig. 4

4. Remove the OEM sway bar nut and OEM shock clevis bolt from the spindle (Fig. 5).

fig. 5

5. Disconnect the lower ball joint from the spindle and remove the shock from the vehicle (Figs. 6-8).

fig. 6

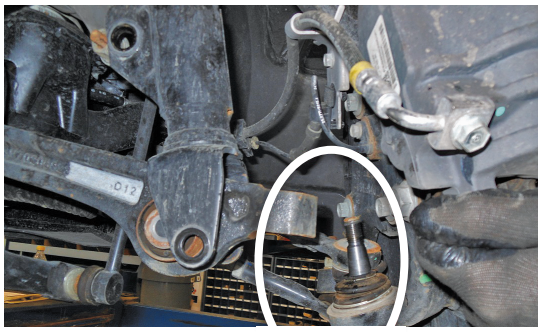

fig. 7

fig. 8

6. Trim the tabs from the flange nuts that connect the upper control arm to the chassis (Figs. 9-11).

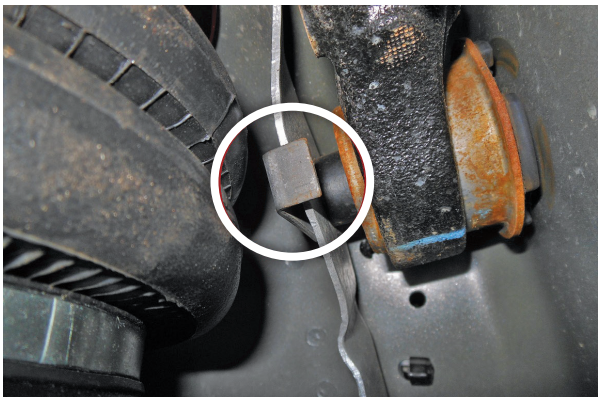

fig. 9

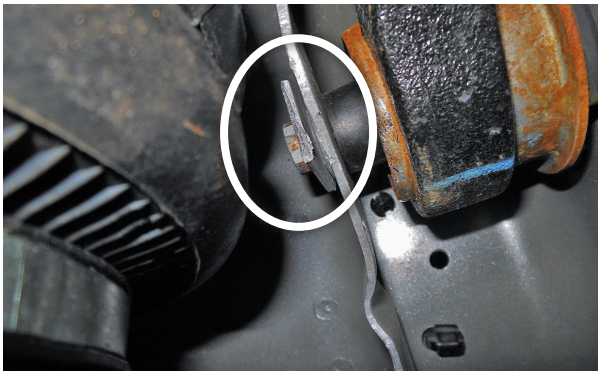

fig. 10

fig. 11

⚠ CAUTION

FAILURE TO TRIM TABS MAY ALLOW THE AIR SPRING TO RUB THE TAB. ANY RUB CAN CAUSE AIR SPRING FAILURE AND WILL **VOID THE WARRANTY**.

INSTALLING THE KIT COMPONENTS

1. Begin by installing the leader line into the air spring. Tighten the appropriate fitting to the leader line (1 3/4 turns beyond hand-tight). Tighten the leader line into the air spring 1 3/4 turns beyond hand-tight (Fig. 12).

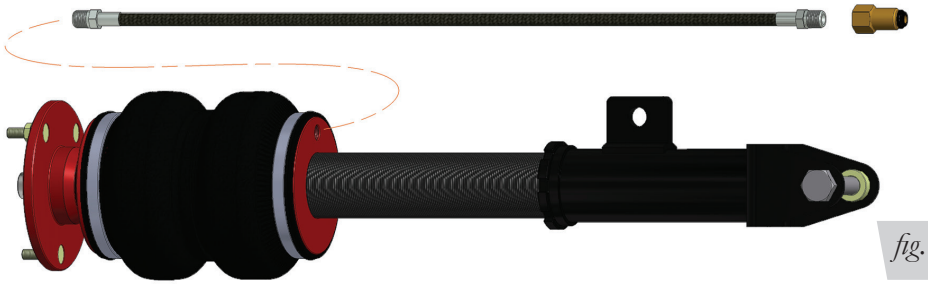

fig. 12

2. Insert the completed shock assembly into the shock tower with the sway bar tab pointing toward the engine compartment (Fig. 13).
3. Secure the shock into place using the nuts and washers provided (Fig. 14). Torque to 27Nm (20 lb.-ft.).

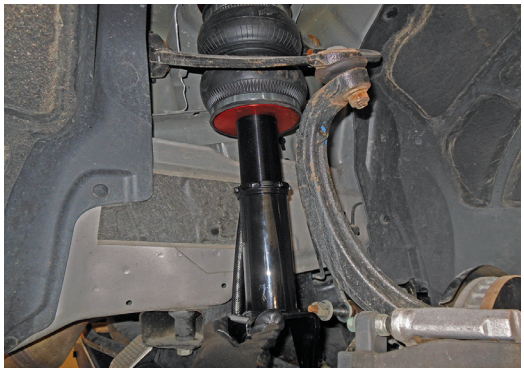

fig. 13

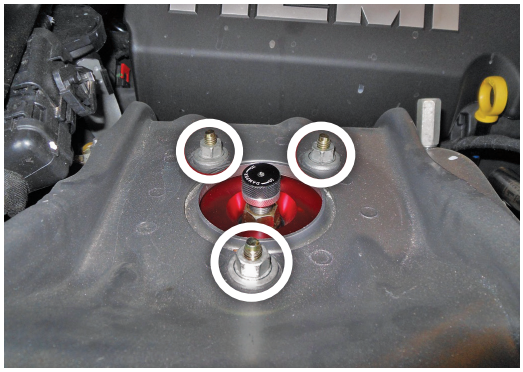

fig. 14

4. Reconnect the ball joint (Fig. 15). Install the supplied clevis bolt (Fig. 16) with the supplied nylon lock nut (Fig. 17). Use the supplied spacers on each side of the lower bushing to ensure the clevis fits tightly if the vehicle is early LX/LC platform (see Fig. 1).

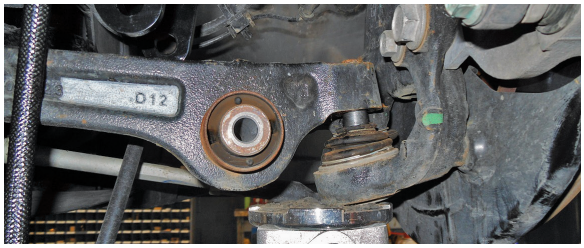

fig. 15

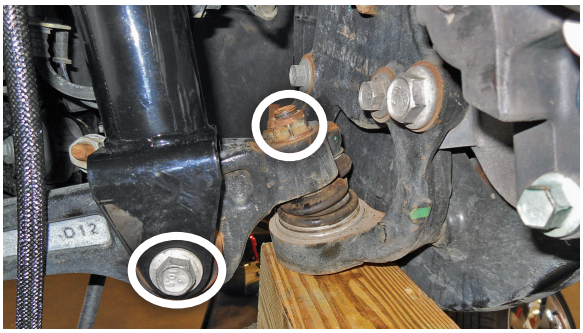

fig. 16

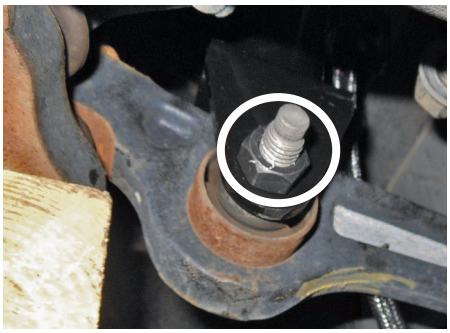

fig. 17

5. Re-attach the sway bar using the OEM sway bar nut (Fig. 18). Torque to 128Nm (95 lb.-ft.).

fig. 18

ROUTING THE AIR LINES

1. Fully compress the suspension using a jack. With the suspension compressed, review the best routing for the leader line that is clear of all suspension and steering components.
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.

⚠ 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.

Before Operating

Read the User Guide included with this kit to set up the suspension.

Torque Specifications		
Location	Nm	lb.-ft.
Lower control arm cradle nut	176	130
Lower control arm ball joint nut (RWD)	68 + 90 degree TURN	50 + 90 degree TURN
Tension strut cradle nut	176	130
Tension strut ball joint nut	68 + 90 degree TURN	50 + 90 degree TURN
Shock absorber lower mounting bolt (RWD)	174	128
Shock absorber upper mounting nuts	27	20
Stabilizer bar link	128	95
Upper control arm ball joint nut	47 + 90 degree TURN	35 + 90 degree TURN
Upper control arm body nuts	75	55

Table 1

Suggested Driving Air Pressure	Maximum Air Pressure
70 PSI (4.8BAR)	**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

CHECK FOR BINDING

1. Inflate and deflate the system (do not exceed 125 PSI [8.6BAR]) 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 (5.2-6.2BAR) and check all connections for leaks.

⚠ CAUTION

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

DAMPING ADJUSTMENT

Suspension damping is a matter of compromise. Setting it too stiff will make the ride feel jarring. In addition, if the suspension is too stiff, the tires will lose contact with the road, reducing control and power delivery. On the other hand, if the suspension is too soft, the car can experience brake dive and excessive bouncing. The sweet spot lies somewhere in the middle. Air Lift dampers have a range of adjustment, which allows the driver to tune the ride and handling to his or her preferences.

Air Lift recommends damper and air pressure settings for every vehicle kit, but it is impossible to consider every situation. For example, even though Air Lift kits replace the dampers and springs, vehicles with sport-tuned suspensions might have stiffer bushings, larger anti-roll bars, bigger wheels, wider tires, etc. These settings may need to be adjusted to different vehicles and driving characteristics.

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 (Figs. 19 & 20) or an 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 “-15 clicks.” This means that the damper is adjusted 15 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 2012 Dodge Charger SE.

fig. 19

fig. 20

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.

Need Help?

Contact Air Lift Company customer service department by calling (800) 248-0892. For calls from outside the USA or Canada, dial (517) 322-2144.

Connect by searching for **Air Lift Performance** *#LifeonAir*

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