

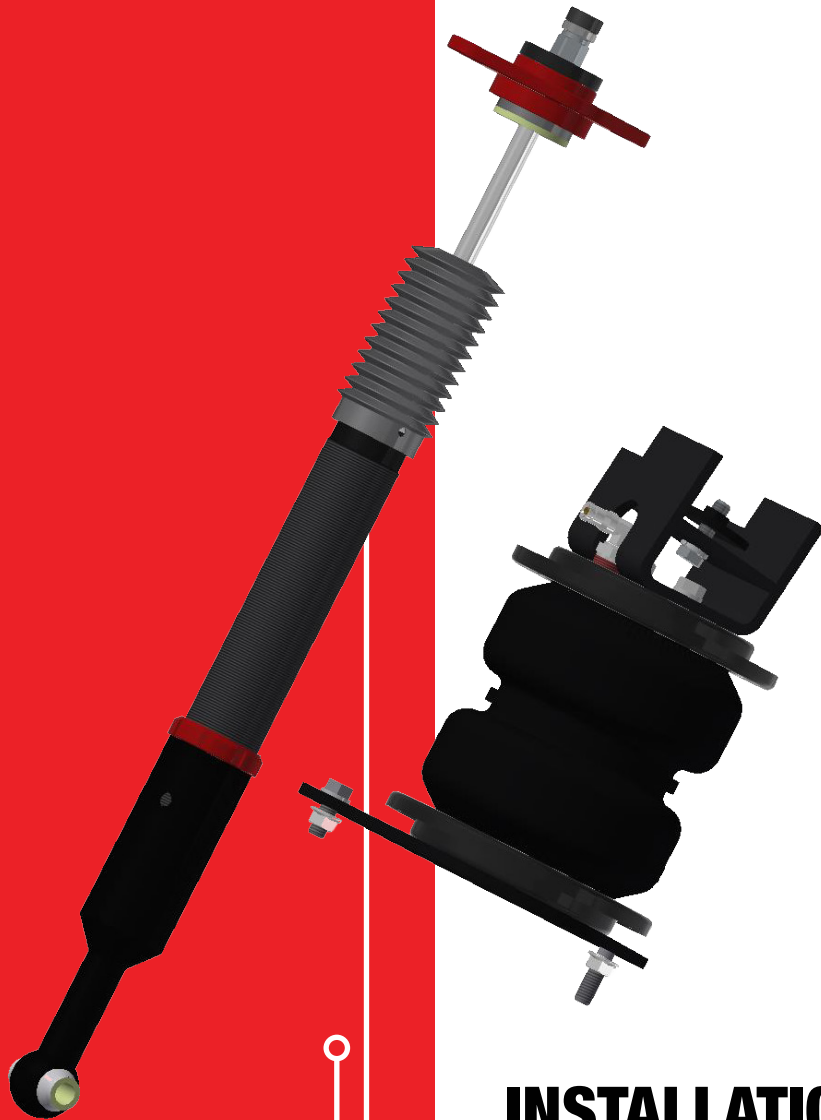


Kit 75627

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

(includes SRT 8 models,
excludes AWD models)

Rear Application

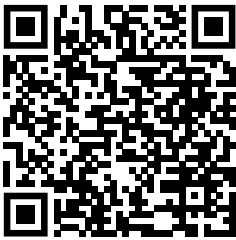


INSTALLATION GUIDE

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.*

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.



TABLE OF CONTENTS

Introduction	2
Notation Explanation	2
Important Safety Notices	2
Installation Diagram	3
Hardware List	3
Installing the Air Suspension	4
Preparing the Vehicle	4
Removing the Rear Shock and Spring	4
Preparing the Air Suspension	4
Installing the Kit Components	4
Routing the Air Lines	6
Before Operating	7
Setting the Ride Height	7
Torque Specifications	7
Suggested Driving Air Pressure and Maximum Air Pressure	7
Installation Checklist	8
Damping Adjustment	8
Limited Warranty and Return Policy	9



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

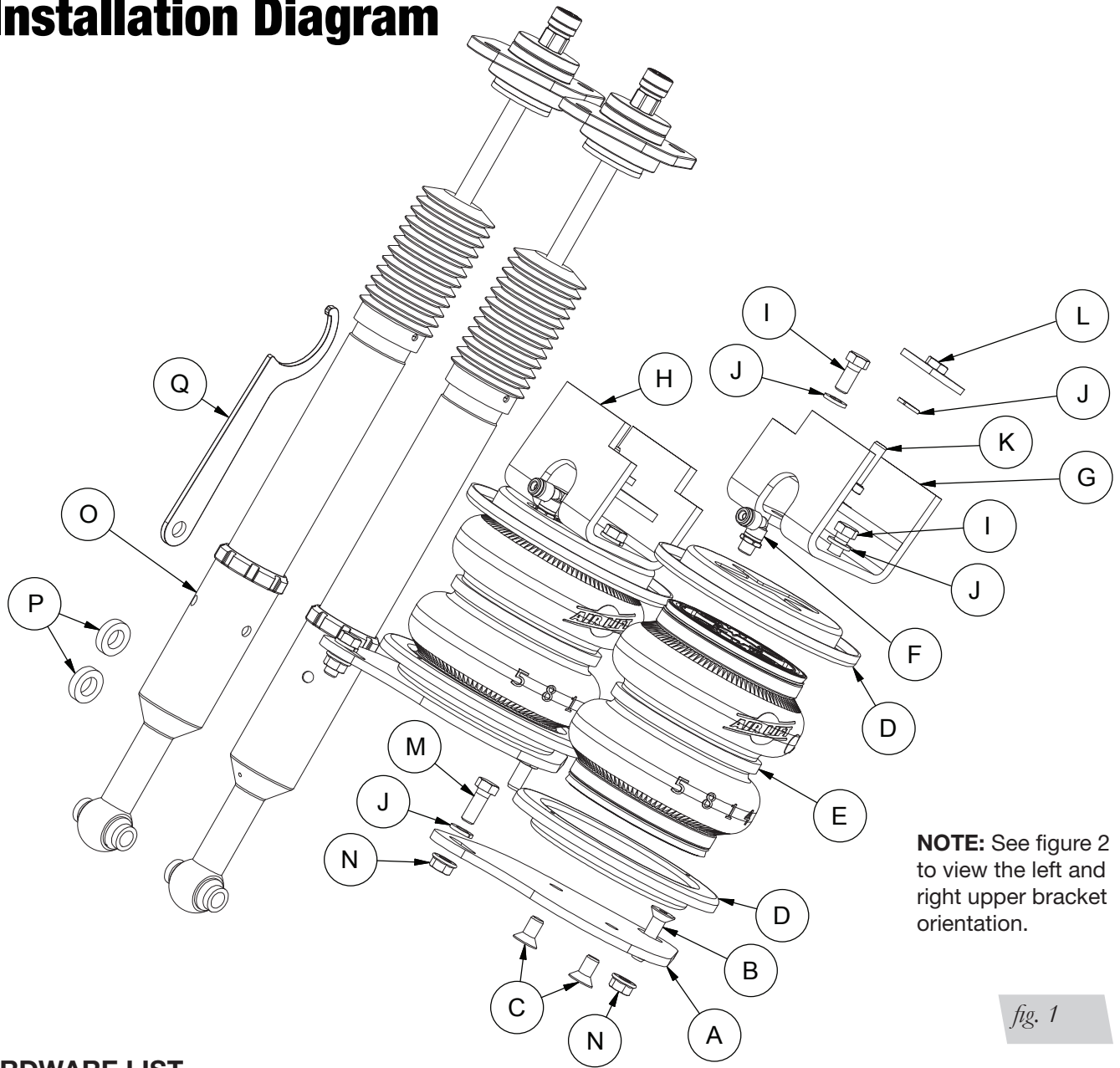
 **WARNING**

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/SOCKS IN ANY WAY. DAMAGE TO UNIT MAY OCCUR AND WILL VOID WARRANTY.

Installation Diagram



NOTE: See figure 2 to view the left and right upper bracket orientation.

fig. 1

HARDWARE LIST

Item	Part #	Description	Qty	Item	Part #	Description	Qty
A	03614	Rear Bottom Bracket	2	J	18427	3/8" Lock Washer	8
B	17206	3/8"-16 x 1 1/2" Flat Head Screw	2	K	17188	3/8"-16 x 1 1/4" Hex Bolt	2
C	17215	3/8"-24 x 3/4" Flat Head Screw	4	L	10814	Clamp Plate	2
D	11801	Roll Plate.....	4	M	17107	3/8"-16 x 1" Hex Bolt.....	2
E	58439	Air Spring	2	N	18422	3/8" Flange Nut.....	4
F	21744	Fitting, Elbow 1/8" MNPT x 1/4" PTC (DOT)..	2	O	26600	Shock, SCAT PAK Rear	2
G	07416	Upper Bracket, Right Rear.....	1	P	18544	1/4" Spacer.....	2
H	07325	Upper Bracket, Left Rear	1	Q		Spanner Wrench	1
I	17203	3/8"-24 x 7/8" Hex Bolt.....	4				



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 the vehicle and support the vehicle with a hoist or safety stands.
2. Remove the rear tire and support the hub assembly.

REMOVING THE REAR SHOCK AND SPRING

1. With the hub supported, unbolt the upper and lower shock mount bolts and remove the shock.
2. Remove the rear coil spring (see vehicle manufacturers detailed process for removal).

PREPARING THE AIR SUSPENSION

1. Apply thread sealant to the threads of the appropriate fitting and install into the air spring air-port 1 and 3/4 turns beyond hand-tight.

NOTE

Determine where the air line will route. When routing 1/4" (.6cm) air line, the fitting can face inboard allowing the bracket to protect the connection.

2. Insert flat head screw (B) through the rear bottom bracket (A) prior to installing the air spring to the bracket.
3. Apply a roll plate (D) to the bottom side of the air spring (E) with the lower air spring bolt holes accessible. Align these holes with the bottom bracket holes (make sure the flat head screw [B] is still installed) and thread flat head screws (C) through the bottom bracket and into the air spring. Torque to 27Nm (20 lb.-ft.).
4. Attach the corresponding upper bracket (left [H] and right [G] specific) and roll plate to the air spring using the supplied fine thread hex bolts (I) and lock washers (J). Please note the upper bracket orientation as shown in figure 2. Torque bolts to 27Nm (20 lb.-ft.).

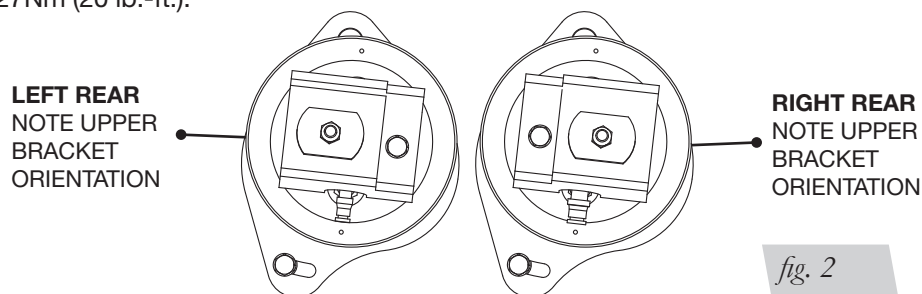


fig. 2

INSTALLING THE KIT COMPONENTS

1. Insert the clamp plate (L) into upper spring perch with the nut facing upward (Fig. 3).

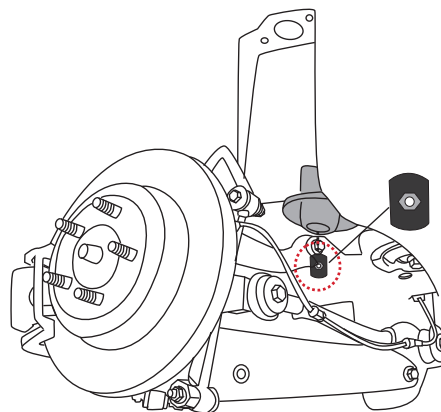


fig. 3

2. Collapse the assembly and slide into the stock spring location. The air fitting faces outboard of the vehicle.
3. Insert and snug nut and bolts into existing holes required for lower spring link (Fig. 4).

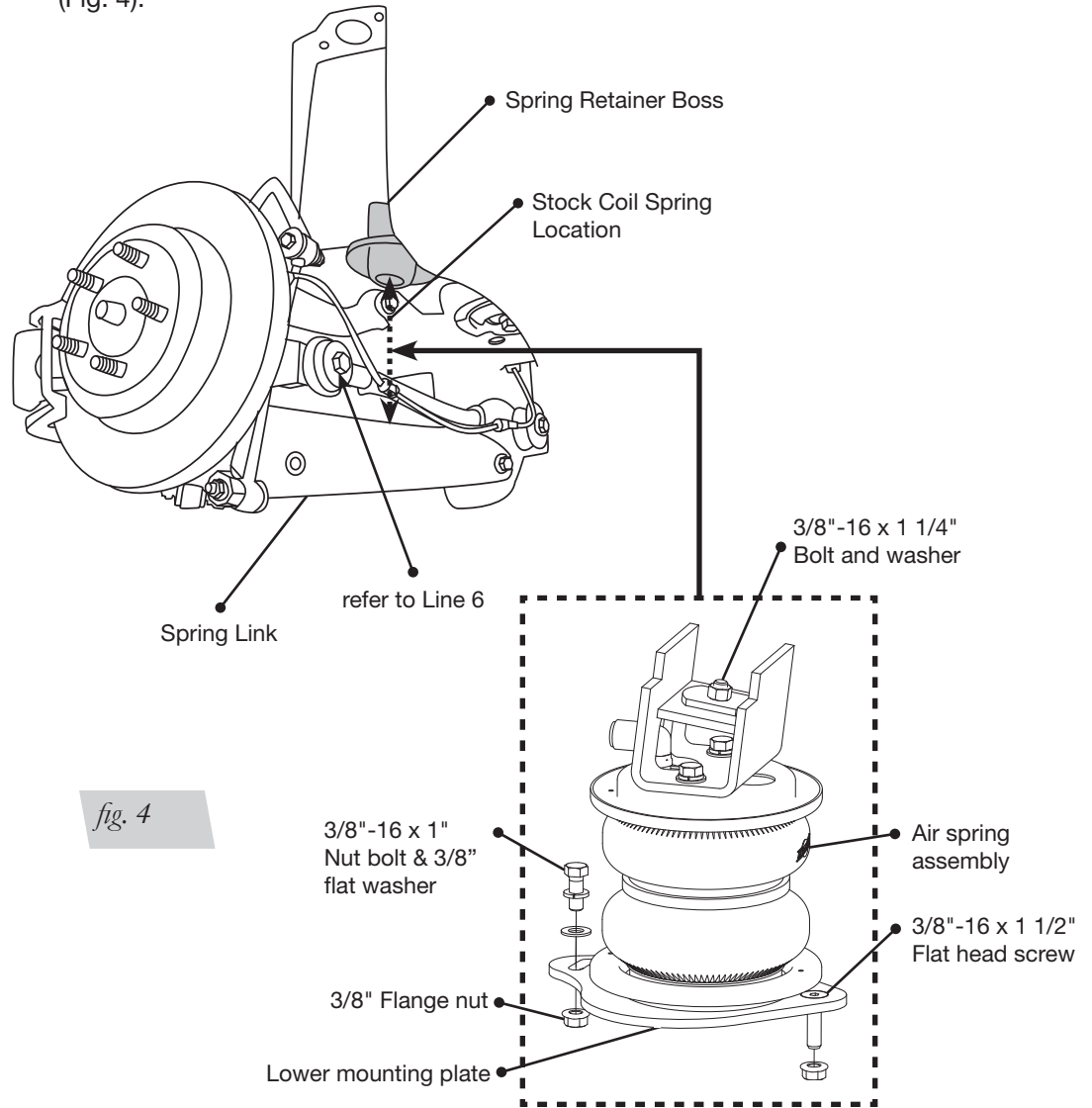


fig. 4

4. Raise the hub so that the upper bracket assembly locates around the upper spring perch.
5. Apply a lock washer (J) to bolt (K) and insert through the slot within the upper bracket and thread into the clamp plate within the spring perch. Tighten only finger-tight at this time.
6. Unthread the rear lateral link bolt from the knuckle. Place the spacer (P) in-between the lateral link and knuckle and reinstall the lateral link bolt (Fig. 5). Do not torque at this time.

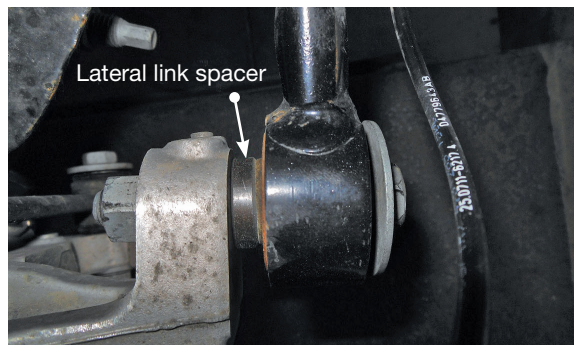


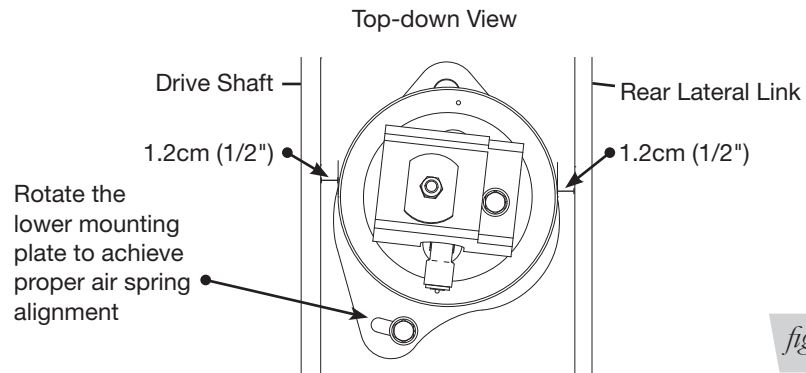
fig. 5

7. Rotate the air spring assembly and lower mounting plate as necessary to achieve proper air spring alignment.

NOTE

There should be 1.2cm (1/2") clearance between the completed assembly and the drive shaft and rear lateral link. Cycle suspension through its travel and check clearances throughout. Adjust accordingly.

8. Deflate the assembly, making adjustments as needed (Fig. 6). Torque the upper and lower air spring-to-chassis/control arm assembly bolts to 27Nm (20 lb.-ft.).



9. Place the new shock (O) into the shock tower and attach the upper and lower mounting bolts. Torque the upper bolts to 52Nm (38 lb.-ft.).

ROUTING THE AIR LINES

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 also allow for the suspension to extend without kinking or 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.

Before Operating

SETTING THE RIDE HEIGHT

Please refer to the User Guide supplied with this kit to set up the suspension.

Torque Specifications		
Location	Nm	lb-ft
Camber Link Crossmember Bolt	85	63
Camber Link Knuckle Bolt	98	72
Compression Link Crossmember Bolt	85	63
Compression Link Knuckle Bolt	81	60
Shock Absorber Mounting Bolts (Upper)	52	38
Shock Absorber Mounting Bolt Nut (Lower)	72	53
Spring Link Crossmember Bolt	108	80
Spring Link Knuckle Nut	138	102
Stabilizer Link Nuts	61	45
Tension Link Crossmember Bolt	85	63
Tension Link Knuckle Bolt	98	72
Lateral Link Crossmember Nut	108	80
Lateral Link Knuckle Bolt	95	70

Table 1

Suggested Driving Air Pressure	Maximum Air Pressure
95 PSI (6.6BAR)	125 PSI (8.6BAR)
<p>FAILURE TO MAINTAIN ADEQUATE MINIMUM PRESSURE (OR PRESSURE PROPORTIONAL TO LOAD) MAY RESULT IN EXCESSIVE BOTTOMING OUT AND WILL VOID THE WARRANTY.</p>	

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.

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 (Figs. 7 & 8) 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. 7



fig. 8

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/>

Need Help?

Contact Air Lift Company customer service department by calling (800) 248-0892. For calls from outside the USA or Canada, dial +1 (517) 322-2144.



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Air Lift Performance • 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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