air LIFT PERFORMANCE®

Kits 75620

Nissan 350z (Z33)
Infiniti G35

Rear Application

Kit 75621

Nissan Z (RZ34)
Nissan 370Z (Z34)
Infiniti G37

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.

MN-793 • (082211) • ECR 10112

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

Air Lift Performance thanks you for purchasing the most complete, fully engineered high-performance air suspension made for the Nissan 350Z (Z33)/Infiniti G35 and Nissan Z (RZ34)/Nissan 370z (Z34)/Infiniti G37 (except 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 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.

Installation Diagram

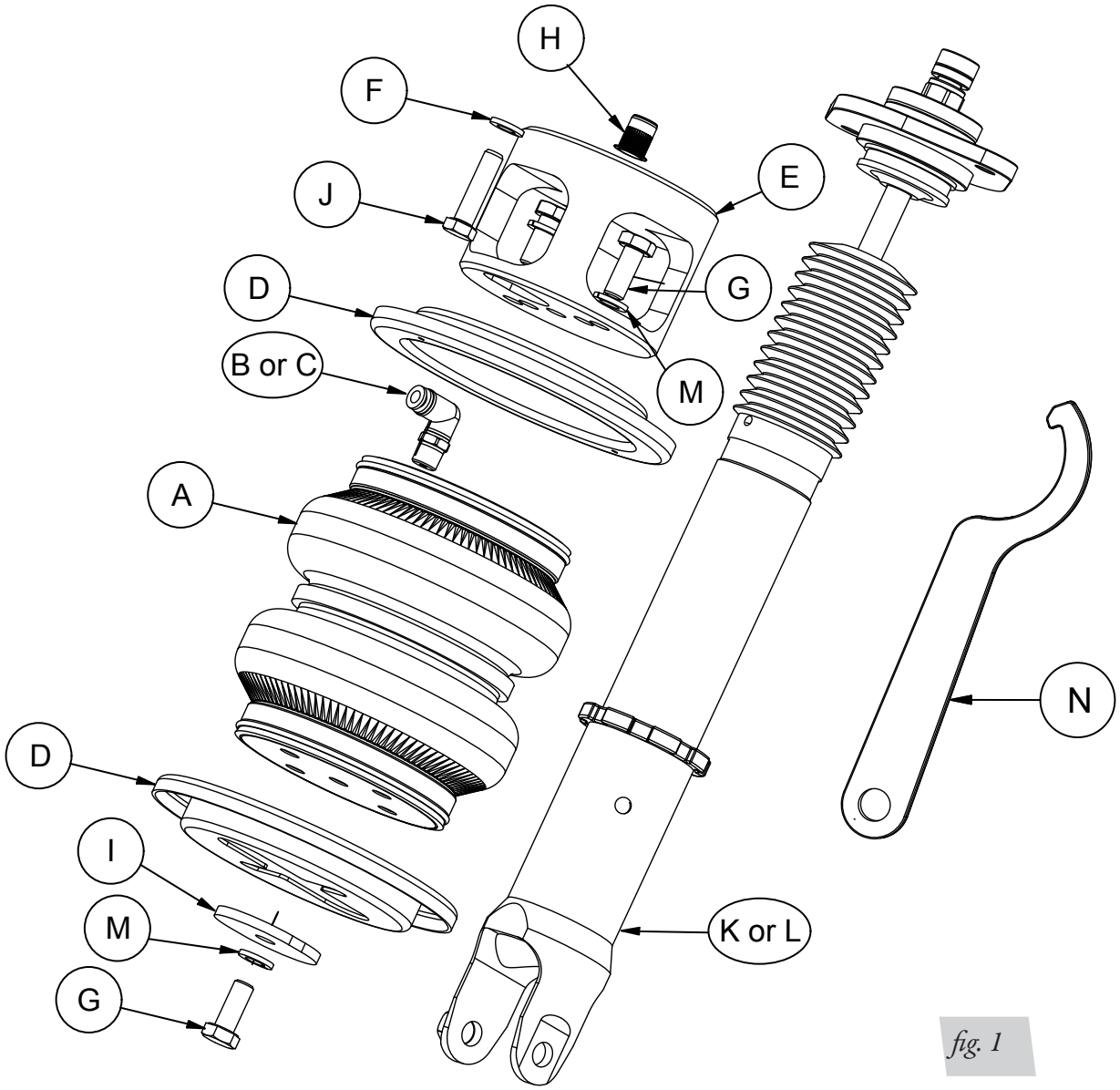

fig. 1

HARDWARE LIST

Item	Part #	Description	Qty	Item	Part #	Description	Qty
A	58550	Air Spring	2	H	18585	3/8"-16 Nutsert	2
B	21779	1/4" MNPT X 1/4" PTC, 90 Degree	2	I	13312	Spacer, Lower Centering	2
C	21851*	1/4" MNPT X 3/8" PTC, 90 Degree	2	J	17108	3/8"-16 X 1 1/2" Hex Cap Screw	2
D	11801	Roll Plate	4	K	26972	Rear Shock, Nissan Z33	2
E	13311	Spacer, Upper Air Spring	2	L	26998	Rear Shock, Nissan Z34	2
F	18427	3/8" Lock Washer	2	M	18628	M10 Lock Washer	6
G	17517	M10-1.5 X 25 Hex Bolt	6	N		M50 Spanner Wrench	1

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

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

Installing the Air Suspension

NOTE *See important safety notices on page 2.*

PREPARING THE VEHICLE

1. Elevate and support the vehicle using its approved lifting points. Remove the rear wheel and support the hub assembly (Fig. 2).

fig. 2

REMOVAL OF STOCK SUSPENSION

1. Support the hub assembly to prevent overextension of suspension components.
2. Remove the lower shock bolt from the hub (Figs. 3 & 4).

fig. 3

fig. 4

3. Remove the two upper shock bracket bolts and remove the shock from the vehicle (Figs. 5 & 6).


fig. 5


fig. 6

4. Unbolt the lower control arm from the hub and slowly lower the control arm down (Fig. 7).
5. Remove the coil spring and rubber isolators from the spring seats. The conical upper spring isolator snaps into place and can be removed with a side-to-side motion (Fig. 8).


fig. 7


fig. 8

INSTALLING THE KIT COMPONENTS

1. Using the supplied centering spacer (I) as a template, drill a 13/32" (.406" diameter) hole through the center of the lower control arm spring seat (Fig. 9).

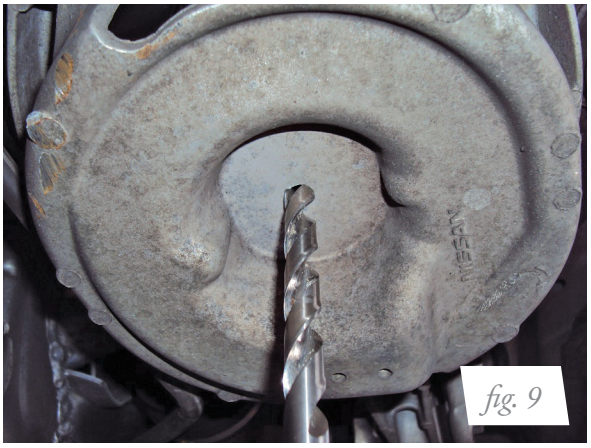
fig. 9

2. To install the nutsert in the upper spring seat, the upper bracket can be used as a template to center the air spring location (Fig. 10). Place the bracket against the spring seat and mark the center location. Drill a hole 17/32" (.531" diameter) through the spring seat.

fig. 10

3. Assemble the nutsert and tool bolt and insert the assembly into the drilled hole. While holding the nutsert spacer in place, tighten the tool bolt until the nutsert is fully seated and locked in place (Figs. 11, 12 & 13).

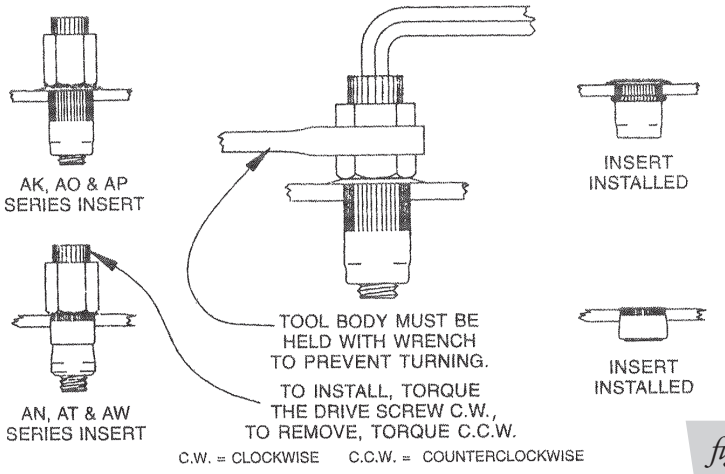

fig. 11

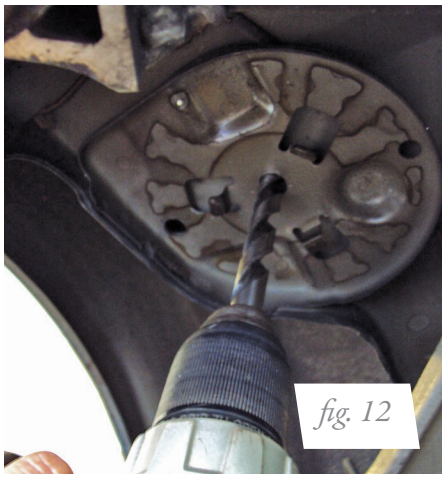

fig. 12

fig. 13

4. Reinstall the lower control arm to the hub. Do not torque at this time.

5. Install the appropriate air fitting with thread sealant and tighten 1 and 3/4 turns beyond hand-tight (Fig. 14).

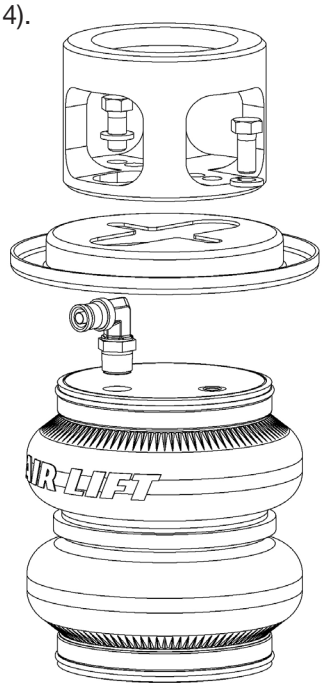

fig. 14

6. Attach the upper air spring spacer (E) to the upper spring seat (Fig. 15). Torque the upper bracket bolt (J) with lock washer (F) to 20Nm (15 lb.-ft.).

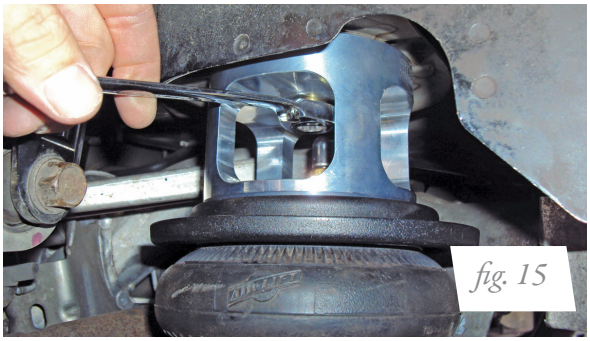

fig. 15

7. Apply the roll plate underneath the air spring. Lift the upper control arm and attach the air spring assembly to the control arm with the centering spacer (I), bolt (G) and lock washer (M) through the previously drilled hole. Torque to 20Nm (15 lb.-ft.) (Figs. 16 & 17).

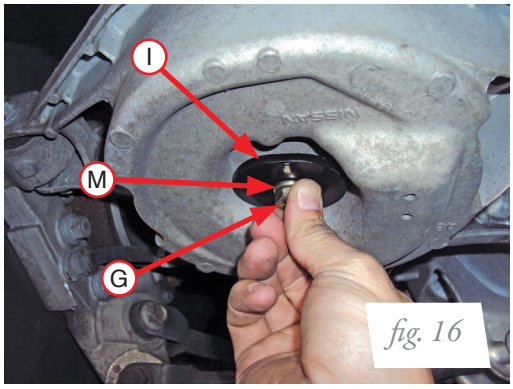

fig. 16

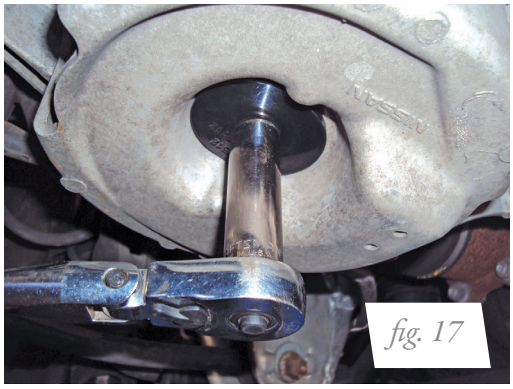

fig. 17

8. Insert the shock assembly into the shock tower and attach the upper bracket to the chassis (Fig. 18). Torque the upper bracket nuts to 28Nm (21 lb.-ft.).

fig. 18

9. Attach the shock fork to the hub. Do not torque the attaching bolt at this time.

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

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

Torque Specifications		
Location	Nm	Lb.-ft.
Upper bracket to chassis	20	15
Lower air spring attachment bolt	20	15
Lower control arm to hub	72.5	53
Lower control arm to sub-frame	72.5	53
Upper control arm to sub-frame	72.5	53
Trailing link to sub-frame	72.5	53
Trailing link to hub	87.5	65
Transverse link to hub	87.5	65
Transverse link to sub-frame	72.5	53
Shock lower mount to hub (350z (Z33)/G35)	110	81
Shock lower mount to hub (Z (RZ34)/370z (Z34)/G37)	123	91
Shock upper mount to chassis	28	21
Wheels (350z (Z33)/G35)	99-126	73-93
Wheels (Z (RZ34)/370z (Z34)/G37)	108	80

Table 1

Suggested Driving Air Pressure	Maximum Air Pressure
50-70 PSI (3.5-4.8BAR)	**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

⚠ CAUTION

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

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.

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. 19 & 20) 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 Z (RZ34)/370z (Z34)/G37 shock is preset to “-20 clicks.” This means that the shock is adjusted 20 clicks away from full stiff. Each 350z (Z33)/G35 shock is preset to “-12 clicks.” This means that the shock is adjusted 12 clicks away from full stiff. Counting up from full stiff is the preferred method of keeping track/setting of damping. These settings were developed on a 2012 Infiniti G37 and 2007 Nissan 350z NISMO respectively and may need to be adjusted to different vehicles and driving characteristics.

For more information, refer to the User Guide.

fig. 19

fig. 20

Notes

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.

Air Lift Company 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 Company at **(800) 248-0892** or visit **www.airliftperformance.com**.

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***

Thank you for purchasing Air Lift Performance products!

MADE IN USA WITH GLOBAL COMPONENTS

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

Printed in the USA
JJC-1122