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PAJL222PA 1993-1998 GRAND CHEROKEE ZJ 2" SUSPENSION SYSTEM

INSTALLATION INSTRUCTIONS

⚠WARNING

Read and understand all instructions, warnings, cautions, and notes in this sheet and in your owners manual before you begin the installation of this coil lift kit.

⚠WARNING

Proper installation of a Performance Accessories coil spring lift kit requires knowledge of the factory recommended procedures for disassembly and assembly of original equipment components. We recommend that the factory shop manual and any special tools necessary to your vehicle be on hand during the installation. Installation of this coil lift kit without proper knowledge of the factory recommended procedures may affect the performance of these components and the safety of your vehicle. We strongly recommend that a certified mechanic familiar with the installation of similar components install this coil lift kit.

⚠WARNING

Ensure that your vehicle tires are properly blocked and secured before you begin installation of this coil spring lift kit.

⚠CAUTION

It is the customer's responsibility to ensure that all mounting hardware is correctly tightened before, during and after use of coil spring lift kit. DO NOT EXCEED manufacturer's load specifications for your vehicle. Always operate your vehicle in a safe manner. If your vehicle is equipped with any type of extra duty suspension or special towing package, this coil lift kit may not fit properly. If your vehicle is equipped with any type of aftermarket springs, lift kits, or bushings, this coil lift kit may not fit properly.

⚠WARNING

Many states now have laws restricting bumper heights and vehicle lifts. Local laws should be consulted to determine if the changes you intend to make to your vehicle comply with state laws. Before combining a body lift with a suspension lift, consult an installation professional to see how this will affect your specific application.

⚠WARNING

This coil spring lift kit should only be installed on vehicles in good working condition. Before installation, the vehicle should be thoroughly inspected for evidence of corrosion or deformation. This coil lift kit should not be installed on any vehicle that is suspected to have been in a collision or misused. Failure to observe this warning may result in serious personal injury and/or severe damage to your vehicle.

⚠WARNING

To ensure the Supplemental Restraint System (SRS, or air bag) is not accidentally deployed during shackle bushing kit installation, always ground yourself and the vehicle. Do not use power or pneumatic tools. Exercise extreme caution while working near SRS sensors and wiring. Do not allow anyone near air bags during kit installation. Accidental deployment can result in serious personal injury or death.

⚠WARNING

Always wear eye protection when operating power tools.

⚠NOTE

Performance Accessories recommends using the Loctite® supplied in the kit on all hardware unless noted in the instructions.

A. Before you start.

⚠NOTE

Keep track of hardware quantity and position. Kit parts are prefaced by the word *kit* in italics.

1. Read all warnings and instructions completely and carefully before you begin.
2. Check to make sure the kit is complete (refer to the Parts List, Section F).
3. Special tools, such as coil spring compressors, are required for installation of this coil lift kit.
4. Only install this kit on the vehicle for which it is intended. If anytime during the installation you encounter something different from what is outlined in the instructions, call technical support at (928) 636-3134.
5. Park the vehicle on a clean, dry, flat, level surface and block the tires so the vehicle cannot roll in either direction.
6. Disconnect both battery cables. Disconnect the negative cable (1) first, then the positive cable (2) from the battery (3).

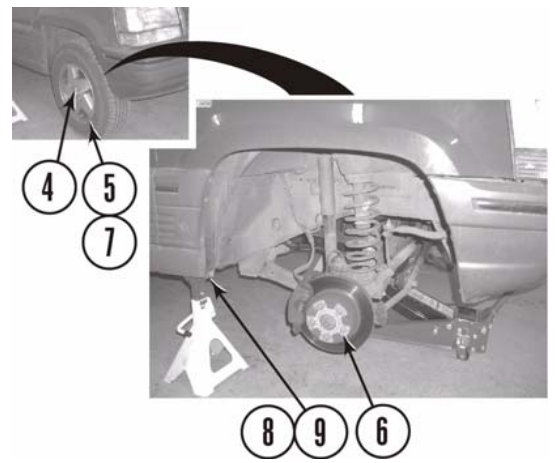


B. Get ready to install front coil spring lifts.

1. Lift front axle.
 - a. Loosen five lug nuts (4) each from two front wheels (5).

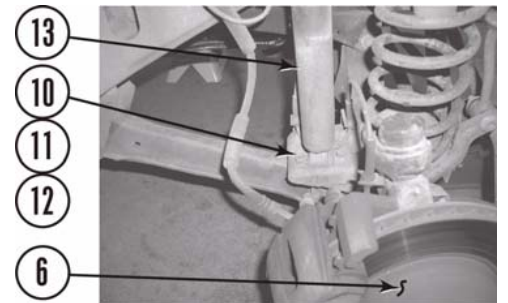


- b. Using a hydraulic jack, slowly lift front axle (6) so that two front tires (7) are three to five inches off of ground. Position jack stands under frame (8) just behind frame control arm perches (9). Lower frame onto jack stands. Do not remove hydraulic jack and maintain some hydraulic jack pressure on axle.
- c. Remove five lug nuts (4) each and two front wheels (5) from axle (6).

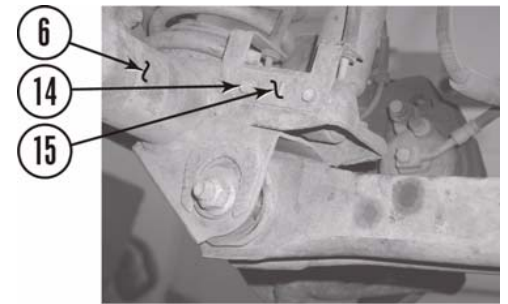


2. Remove front axle passenger side hardware.

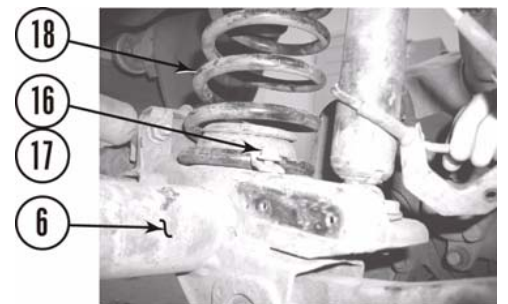
- a. Remove two nuts (10), washers (11), and bolts (12) from shock (13) and front axle (6).



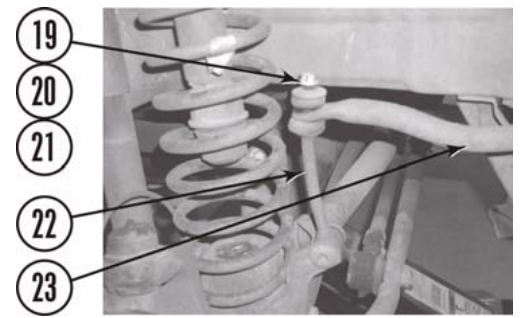
- b. Remove two bolts (14) and bracket (15) from front axle (6).



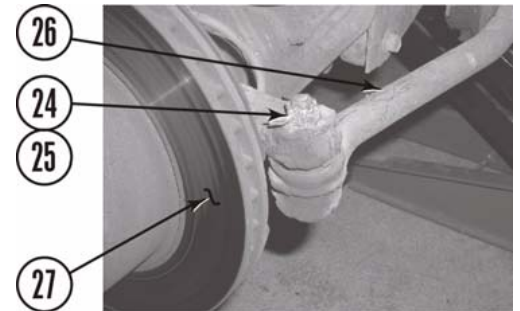
- c. Remove bolt (16) and spring retainer (17) from coil spring (18) and front axle (6).



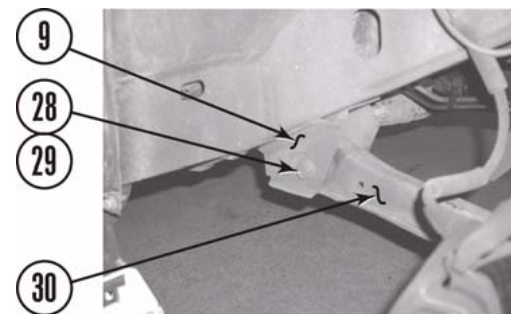
- d. Remove nut (19), washer (20), bushing (21), and sway bar link (22) from sway bar (23).



- e. Remove cotter key (24) and nut (25) from steering arm (26) and spindle assembly (27).



- f. Remove nut (28), bolt (29), and control arm (30) from control arm perch (9).

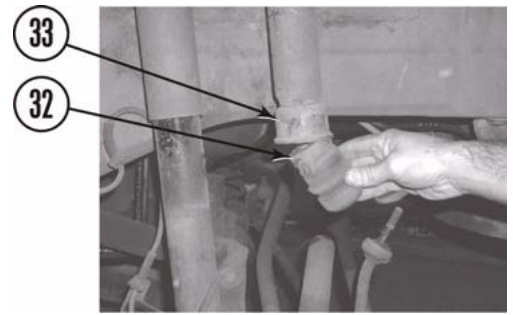


3. Remove passenger side coil spring.

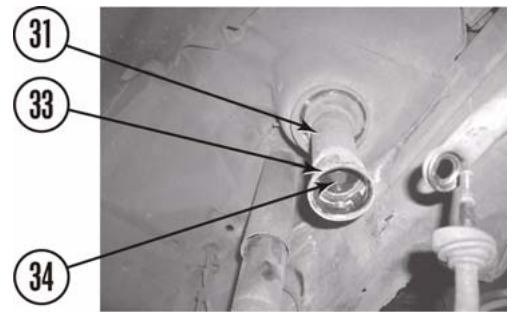
- a. Push down on front axle (6) and remove coil spring (18) from axle and frame perch (31).



- b. Remove bump stop bushing (32) from bump stop cup (33).



- c. Remove bolt (34) and bump stop cup (33) from frame perch (31).

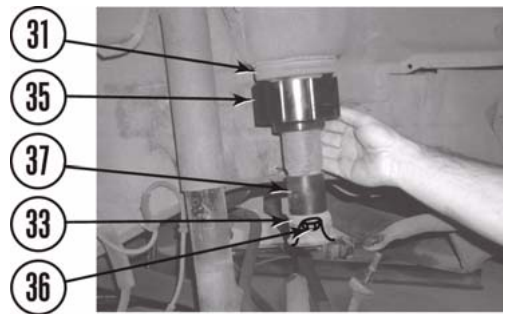


C. Install the kit.

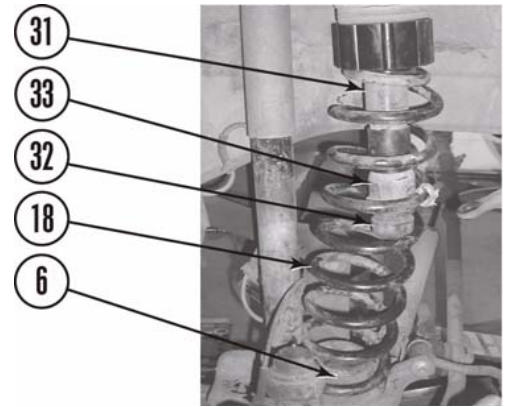
- 1. Install passenger side *kit* coil lift spacer.
 - a. Install *kit* spring lift spacer (35) on frame perch (31).

△NOTE
Performance Accessories recommends using Loctite® supplied in the kit for all mounting hardware.

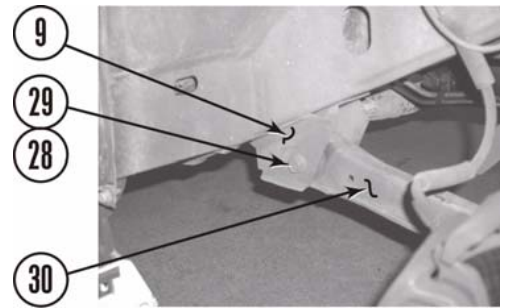
- b. Coat threads of *kit* 10mm x 80mm bolt (36) with Loctite®.
- c. Install *kit* 2" bump stop block (37) and bump stop cup (33) on frame perch (31) with *kit* 10mm x 80mm bolt (36).



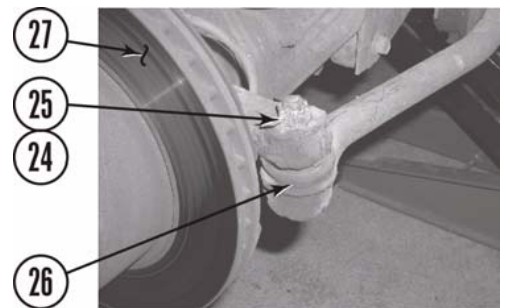
- d. Install bump stop bushing (32) in bump stop cup (33).
2. Install front axle passenger side hardware.
- a. Position coil spring (18) on frame perch (31) and front axle (6).



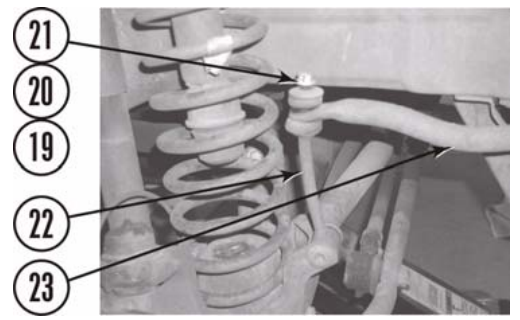
- b. Install control arm (30) on control arm perch (9) with bolt (29) and nut (28).



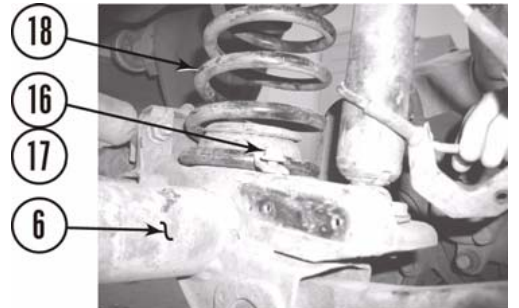
- c. Install steering arm (26) on spindle assembly (27) with nut (25) and cotter key (24).



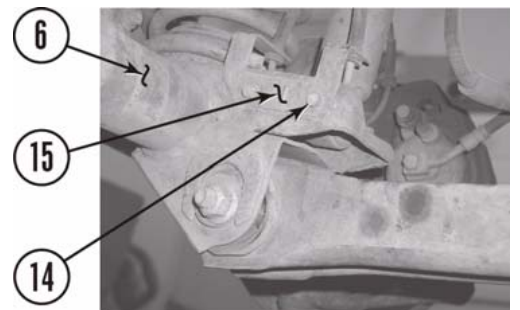
- d. Install sway bar link (22) on sway bar (23) with bushing (21), washer (20), and nut (19).



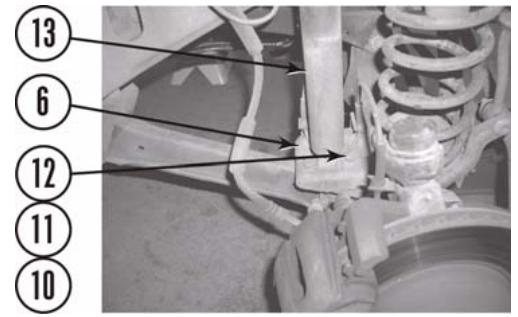
- e. Install spring retainer (17) on coil spring (18) and front axle (6) with bolt (16).



- f. Install bracket (15) on front axle (6) with two bolts (14).



- g. Install shock (13) on axle (6) with two bolts (12), washers (11), and nuts (10).
- h. Repeat steps B.2.a. through C.2.e. for frame driver side front axle (6).



3. Finish front axle.

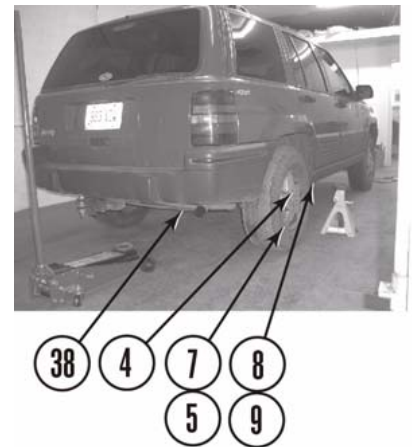
- a. Install two front wheels (5) on front axle (6) with five lug nuts (4) each.
- b. Using a hydraulic jack, slowly lift front axle (6) so that front tires (7) are three to five inches off of ground. Remove jack stands from frame (8). Lower vehicle to ground and tighten ten lug nuts (4) to 85 lb-ft.



D. Get ready to install rear axle coil lifts.

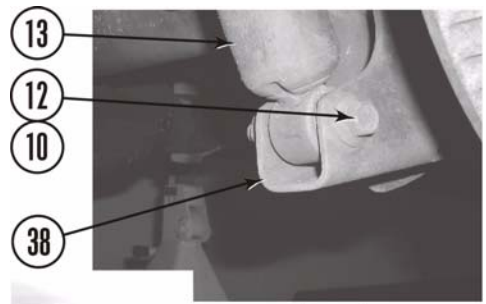
1. Lift rear axle.

- a. Loosen five lug nuts (4) each from two rear wheels (5).
- b. Using a hydraulic jack, slowly lift rear axle (38) so that two rear tires (7) are three to five inches off of ground. Position jack stands under frame (8) just in front of frame control arm perches (9). Lower frame onto jack stands. Do not remove hydraulic jack from axle.
- c. Remove five lug nuts (4) each and two rear wheels (5) from rear axle (38).

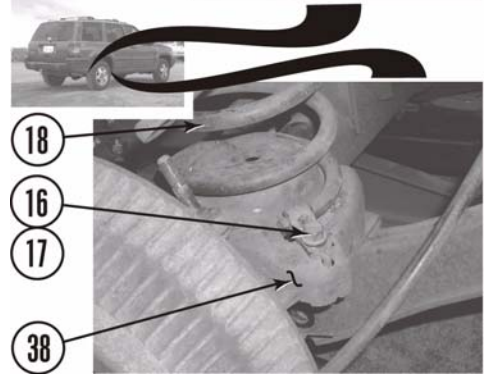


2. Remove rear axle passenger side hardware.

- a. Remove nut (10), bolt (12), and shock (13) from rear axle (38).



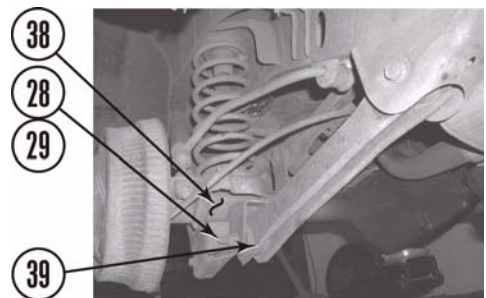
- b. Remove bolt (16) and spring retainer (17) from coil spring (18) and rear axle (38).



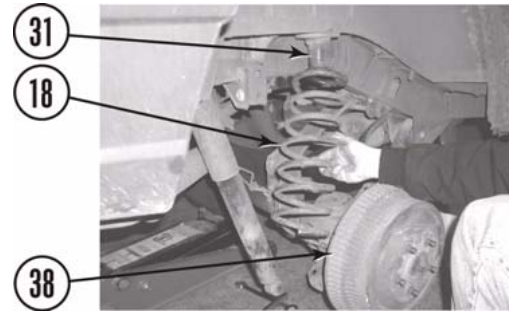
- c. Remove nut (19), washer (20), bushing (21) and sway bar link (22) from sway bar (23).



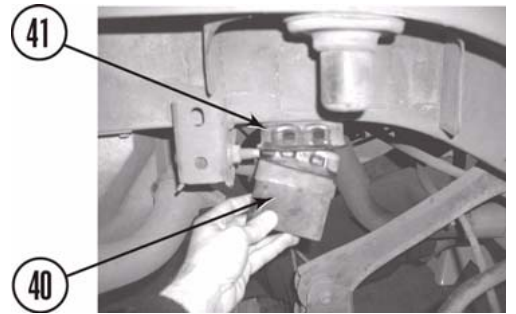
- d. Remove nut (28), bolt (29), and control arm (39) from rear axle (38).



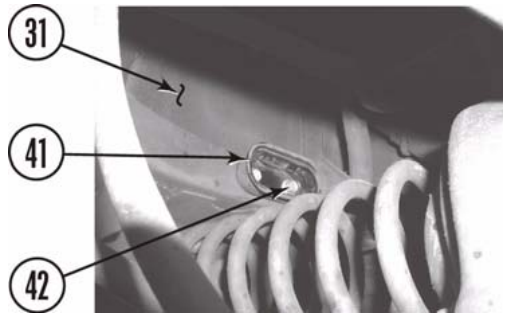
3. Remove passenger side coil spring.
 - a. Push down on rear axle (38) and remove coil spring (18) from rear axle and frame perch (31).



- b. Remove bump stop bushing (40) from bump stop cup (41).



- c. Remove two bolts (42) and bump stop cup (41) from frame perch (31).



NOTE
 Performance Accessories recommends using Loctite® supplied in the kit for all mounting hardware.

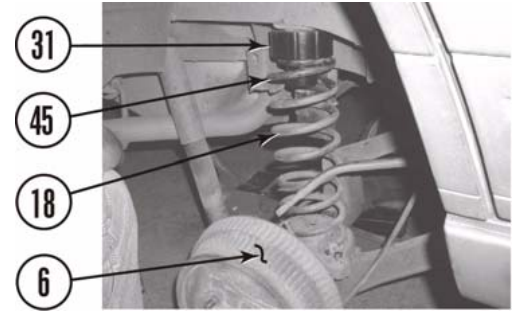
- d. Coat threads of two *kit* 8mm x 70mm bolts (43) with Loctite®.
 - e. Install *kit* 2" bump stop block (44) and bump stop cup (41) on frame perch (31) with two *kit* 8mm x 70mm bolts (43).



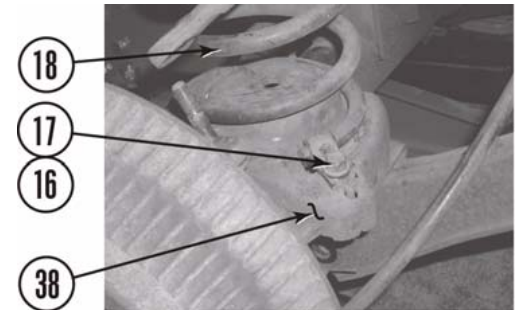
- f. Install bump stop bushing (40) in bump stop cup (41).

E. Install the kit.

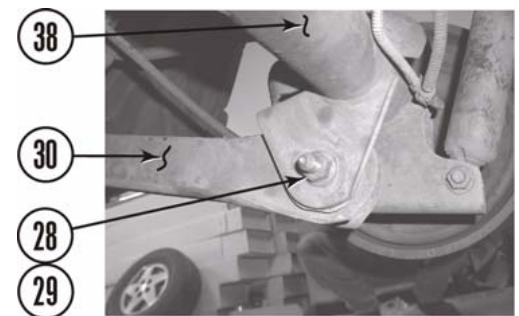
- 1. Install *kit* coil lift spacer passenger side.
 - a. Position *kit* spring lift spacer (45) on coil spring (18).
 - b. Position coil spring (18) on frame perch (31) and rear axle (38).



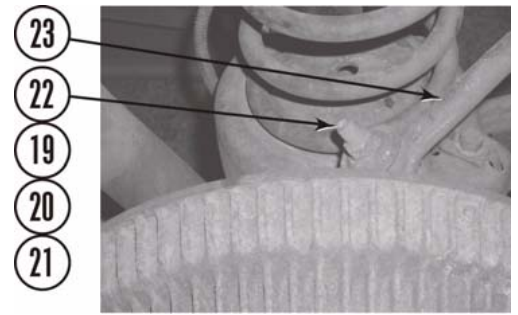
- c. Install spring retainer (17) on coil spring (18) and rear axle (38) with bolt (16).



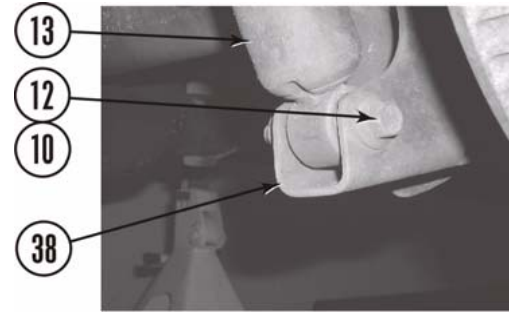
- d. Install control arm (30) on rear axle (38) with bolt (29) and nut (28).



- e. Install sway bar link (22) on sway bar (23) with bushing (21), washer (20), and nut (19).



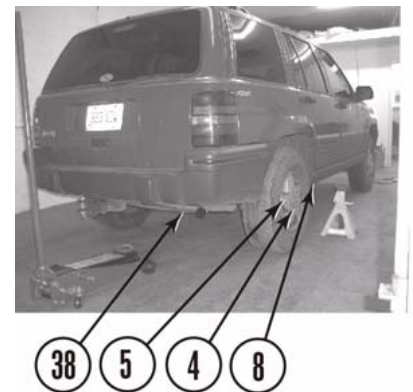
- f. Install shock (13) on rear axle (38) with bolt (12) and nut (10).
- g. Repeat steps D.2.a. through E.2.d. for rear axle driver side (38).



- 2. Connect both battery cables.
 - a. Connect the positive cable (2) first, then the negative cable (1) on the battery (3).
- 3. Finish rear axle.
 - a. Install two rear wheels (5) on rear axle (38) with five lug nuts (4) each.
 - b. Using a hydraulic jack, slowly lift rear axle (38) high enough to remove jack stands. Remove jack stands from frame (8). Lower vehicle to ground and tighten ten lug nuts (4) to 85 lb-ft.
- 4. Double check the vehicle.

⚠CAUTION
 Retorque all fasteners after 500 miles and after off road use. All coil spring lift components should be visually inspected and fasteners retorqued during routine vehicle servicing.

- a. Check all mounting hardware to ensure it is properly tightened.



- b. Start vehicle and check the steering in both directions to ensure that there is no bind. Check all steering connections. Ensure that the steering gear box has no interference and is in proper working condition.
- c. Check the operation of the brakes and the parking brake. Check brake lines for adequate travel. Ensure brake lines do not touch any surfaces, moving or otherwise. If necessary, adjust brake lines and or brake line bracketery to eliminate all contact.
- d. Check clutch operation. Check both shift levers' operation. Ensure that there is proper engagement in all gears and 4 wheel drive ranges.
- e. Ensure that all OEM or aftermarket bumpstops are installed. Suspension overtravel can result in serious damage or failure of OEM components and aftermarket equipment.
- f. Test drive vehicle in all gears and 4 wheel drive ranges. Pay close attention to all vehicle systems. Check all hardware again in 500 miles and as part of your regular maintenance schedule.

△NOTE

All warranty information and instruction sheets regarding the installation of this product must be retained by the vehicle owner. Information contained in the instructions and on the warranty card is required for any warranty claims. Failure to provide the customer with this information can result in damage to the vehicle and severe personal injury.

F. 2" Coil Spacer Lift Kit Parts List.

Callout	Quantity	Description
(37)	2	2" front bump stop blocks
(40)	4	2" rear bump stop blocks
(35)	2	Front coil spacers
(41)	2	Rear coil spacers
	1	6ml bottle Loctite
	1	warning sticker
	1	logo sticker
	1	Bolt Pack
(36)	2	10mm x 80mm bolts
(39)	4	8mm x 70mm bolts

Rev. 01, Copyright 03/05
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△CAUTION

Performance Accessories recommends a 31" x 10.5" tire for this suspension system. Reference your owner's manual for recommended tire sizes and warnings related to the use of oversized tires. Larger wheel and tire combinations increase stress and wear on steering and suspension components, which leads to increased maintenance and higher risk for component failure. Larger wheel and tire combinations also alter speedometer calibration, braking effectiveness, center of gravity, and handling characteristics. Consult with an experienced local off road shop to find what wheel and tire combinations work best with your vehicle.

△NOTE

All warranty information, instruction sheets, and other documents regarding the installation of this product must be retained by the vehicle owner. Information contained in the instructions and on the warranty card will be required for any warranty claims. The vehicle owner needs to understand the modifications made to his vehicle and how they affect vehicle handling and performance. Failure to provide the customer with this information can result in damage to the vehicle and severe personal injury.