

ROUGH COUNTRY
SUSPENSION SYSTEMS®

92PERF908



1908B1

27.11
[688.7 mm]

WJ JEEP LONG ARM KIT

Thank you for choosing Rough Country for your suspension needs.

Rough Country recommends a certified technician install this system. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle. Please read all the instructions before beginning the installation. Check the kit hardware against the kit contents. Be sure you have all the needed parts and understand where they go. Also please review the tools needed list and make sure you have needed tools. If you have any questions please call us at 800-222-7023.

PRODUCT USE INFORMATION

As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur. Braking performance and capabilities are decreased when significantly larger/heavier tires and wheels are used. Take this into consideration while driving. Also, speedometer recalibration is necessary when larger tires are installed.

- Do not add, alter, or fabricate any factory or after-market parts which increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands, lifts, voids all warranties.
- Rough Country makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any product that is altered.
- Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
- With the installation of this kit and larger tires it is highly recommended that an aftermarket stabilizer(s) be added.
- An upgraded drive-shaft is highly recommended for the 4' kit if the vehicle has a front rizeppa joint (**Shown Above**) on the transfer case or the front differential to prevent vibration and extend driveshaft longevity.



Due to differences in manufacturing, dimension and inflated measurements, tire and wheel combinations should be test fit prior to installation. **This suspension system was developed using a 265 / 75R-16 tire with factory wheels.** If bigger/wider tire are used with the factory wheels or factory offset wheels you must carefully check the clearance during turning between the tires and the lower control arm and the front sway bar link before driving. Installing wider than recommended tires can cause the tire to come in contact with the rear shock. Always double check for clearance on all tire / wheel packages.

On models outfitted with extra bolt-on equipment and accessories, Rough Country offers new coil spring isolator pads made from polyurethane to boost ride height 3/4". These are available for the front or rear.

NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Rough country product must have the "Warning to Driver" decal installed on the sun visor or dash. **INSTALLING DEALER**—It is your responsibility to install the warning decal and to forward these installation instructions on to the vehicle owner for review and to be kept in the vehicle for its service life.

We hope installing your Rough Country lift kit is a positive experience. Please note that variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at 800-222-7023. We do not recommend that you modify the Rough Country parts in any way as this will void any warranty expressed or implied.

KIT CONTENTS

This kit is packaged in 7 boxes. Please make sure you have all the need parts and understand where they go prior to beginning installation. Please use the attached picture to match parts to their descriptions shown below.

1698C-4" KIT

- Fr Coil Springs (A)
- Rr Coil Spring (B)

1908BOX5:

- 1-Crossmember ©
- 4-Lower Flex Joints

1908Box6:

- 2-Transmission Bracket (D)
- 1-Skid Plate (E)
- 4-Front Frame bracket flag nuts (F)
- 2-Fr Axle Brake Bracket (G)
- 2-Fr Bump Stop Brackets (H)
- 2-Front Sway Bar Links (I)
- 1-Rear L/A Axle Mount (J)
- 1-Dr Rear Frame Bracket (K)
- 1-Pass Rear Frame Bracket (L)
- 4-Rr Frame Bracket Flag Nuts (M)
- 2-Rear Sway Bar Brackets (N)
- 2-Rear Lower Shock Brackets (O)
- 2-Upper Flex Joints

1908.3:

- 2-Rear Lower Long Arm (P)
- 1-Dr Front Lower Long Arm (Q)
- 1-Pass Front Lower Long Arm (R)
- 1-Dr Upper Adj Front Arm (S)
- 1-Pass Upper Adj Front Arm (T)

1908Box7:

- 1-Rear Upper Y-Link (U)
- 1-Upper Y-Link Flex Joint

1084 Front Track Rod:

- 1-Track Rod Body (V)
- 1-Heim End

1084Poly Bag Containing:

- Heim End Spacers (2)
- Bushings (2)
- Sleeve
- 12mm x 65mm Bolt
- Flat Washer
- 12mm Lock nut
- Jam Nut

1908Bag1:

- Instruction Sheet Bag

1908Bag2:

For Front Cross-member:

- 4-10m x 80mm Bolts
- 4-10mm x 35mm Bolts
- 8-10mm Flat Washers
- 4-7/16" x 1 1/4" Bolts
- 4-7/16" Flat Washers

For Transmission Mount:

- 4-7/16" x 1 1/4" Bolts

For Skid Plate:

- 4-5/16" x 1 1/4" Bolts
- 4-5/16" Flat Washers

For the Front Lower Control Arm:

- 2-9/16" x 4 1/2" Bolts
- 2-9/16" Lock Nuts
- 4-9/16" Flat Washers

For Front Bump stop:

- 2-8mm x 95mm Bolts
- 2-8mm Flat Washers

For Front Axle Brake Line Brackets:

- 2-1/4" x 1" Bolt
- 2-1/4" Lock Nuts
- 4-1/4" Flat Washers

For Lower Shock Bolts:

- 4-5/16" x 1" Bolts
- 4-5/16" Lock Nuts
- 8-5/16" Flat Washers

1131Bag:

For Front Sway Bar Disconnects:

- 2-1/2" Lock nuts
- 2-Hitch Pins
- 2-1/2" Flat washers
- 2-Disconnect Mounting Pins
- 2-12mm Flange Lock Nuts
- 2-12mm Jam Nuts
- 2-Rod Ends
- 2-Crush Sleeves
- 2-Frame Brackets

1908Bag3:

For Rear Control Arm Mounts:

- 8-1/2" x 1 1/2" Bolts
- 8-1/2" Flat Washers

For Rear Arm Axle Mount:

- 3-14mm x 50mm Bolts
- 3-14mm Flat Washers

For Rear Lower Control Arm:

- 2-9/16" x 4 1/2" Bolts
- 2-9/16" Lock Nuts
- 4-9/16" Flat Washers

For Rear Upper Y-Link:

- 1-9/16" x 4 1/2" Bolt
- 1-9/16" Lock Nut
- 2-9/16" Flat Washers

For Rear Upper Brake Brackets:

- 4-1/4" x 3/4" Bolts
- 4-1/4" Lock Nuts
- 8-1/4" Flat Washers

For Rear Sway Bar Brackets:

- 4-10mm x 90mm Bolts
- 4-10mm Flat Washers

For Rear Bump stop:

- 2-3/8" x 3 1/4" Self Tap Bolts

1908Bag4: Containing

For Rear Lower Shock Mount:

- 2-12mm x 100mm Bolts
- 2-12mm Sleeves
- 2-12mm Flat Washers

1639Box1:

- 2-3.0 Series Front Shock (W)
- 2-3.0 Series Rear Shock (X)

KIT CONTENTS



IMPORTANT PRE—INSTALLATION INSTRUCTIONS

Prior to beginning this installation it is always good to use a penetrating oil and spray all fasteners that will be removed.

TOOLS NEEDED:

Prior to beginning installation please re-read the instructions and make sure you have all the tools needed to complete installation. Listed below are the minimum tools required.

- Spring Compressor
- Silicone spray
- Drill assortment
- Hammer
- Combination wrenches
- Torx bit socket
- File / Grinder
- Floor jacks
- Wheel chocks
- 1/2" drill motor
- 15/32" Drill bit
- 17/32" Drill bit
- 1/2 drive ratchet and sockets
- Allen wrenches
- Large "C" clamps and /or bench vise (*For Joint Assembly*)
- Heavy duty jack stands
- Safety glasses
- Anti-seize compound

TORQUE SPECS:

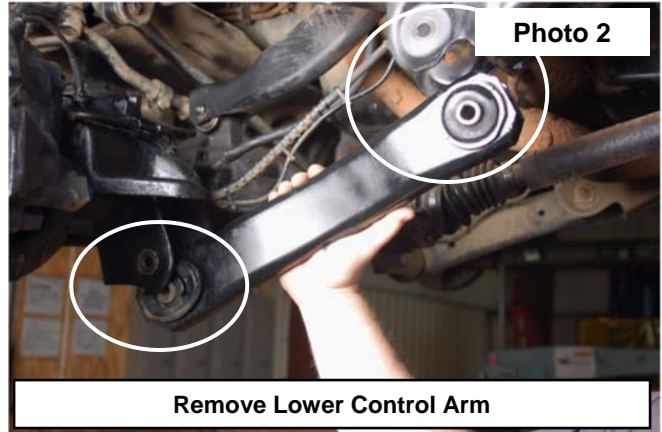
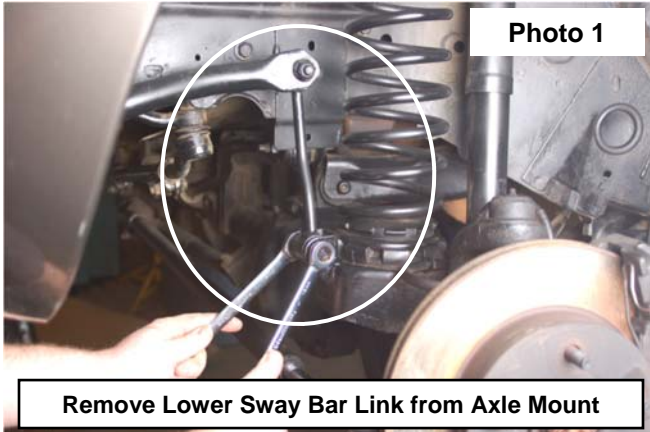
Listed below are generic torque specs that are to be used when no specific spec is listed in the instructions. Please note it is extremely important to tighten all fasteners to the proper specs.

Size	Grade 5	Grade 8
5/16"	15 ft/lbs	20 ft/lbs
3/8"	30 ft/lbs	35 ft/lbs
7/16"	45 ft/lbs	60 ft/lbs
1/2"	65 ft/lbs	90 ft/lbs
9/16"	95 ft/lbs	130 ft/lbs
5/8"	135 ft/lbs	175 ft/lbs
3/4"	185 ft/lbs	280 ft/lbs

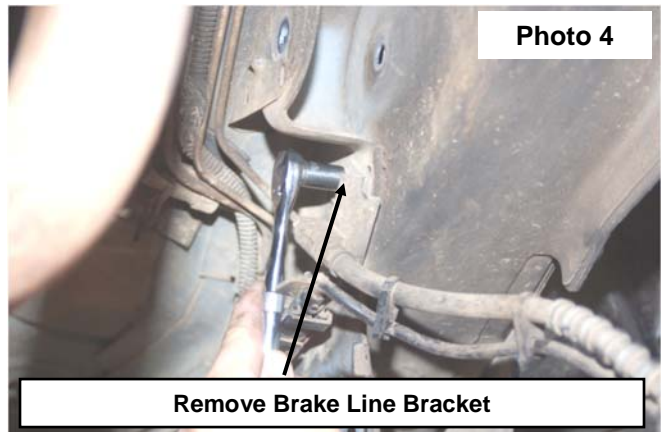
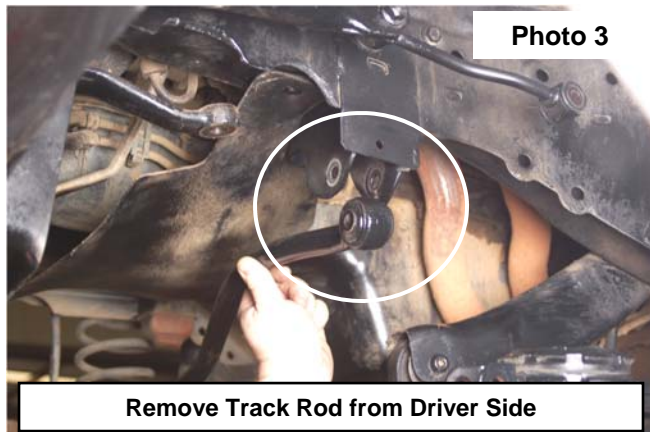


FRONT INSTALLATION INSTRUCTIONS

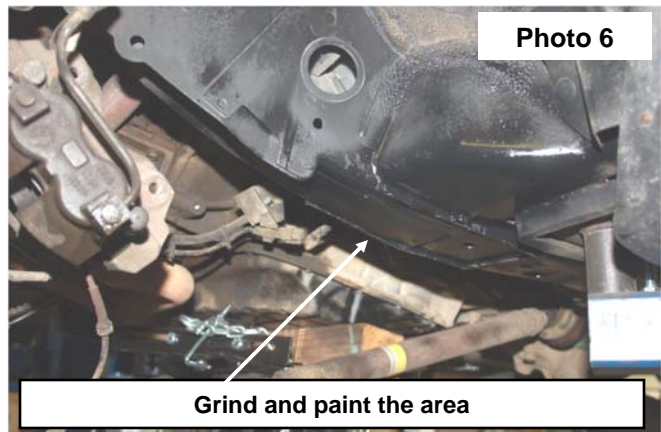
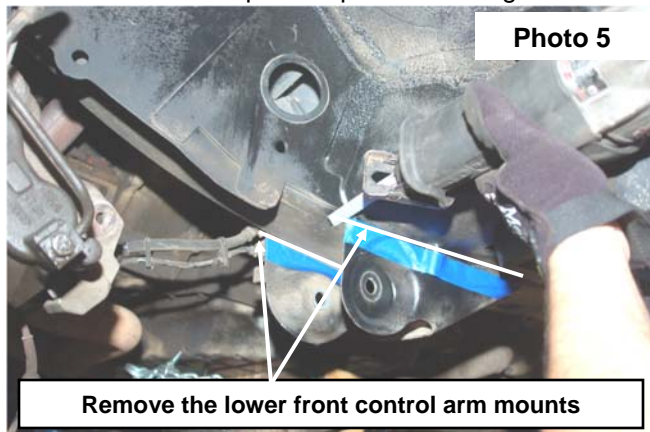
1. Chock the rear wheels and jack up the front of the vehicle and support the vehicle with jack stands.
2. Support the front axle with a floor jack.
3. Remove the lower sway bar link from the axle and the sway bar using a 15mm & 18mm wrench. **See Photo 1.**
4. Remove the shocks using a 15mm wrench/socket for the top mount and a 13mm wrench/socket for the bottom mount.
5. Lower the axle using the floor jack and remove the coil springs.
6. Remove the stock lower control arm using a 21mm wrench/socket. Retain factory hardware for re-use **See Photo 2.**
7. Remove the stock upper control arms using a torx bit and a 18MM wrench.



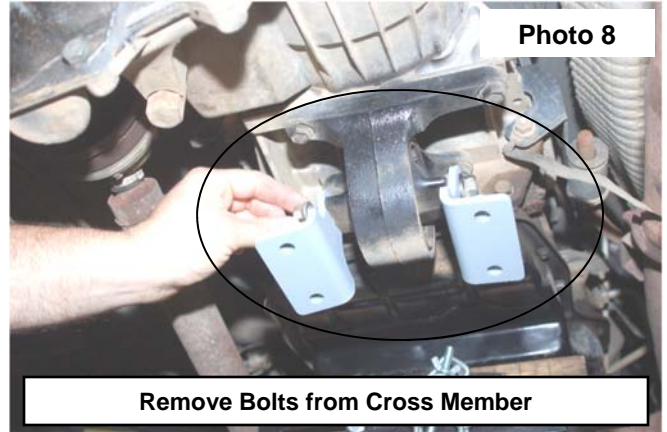
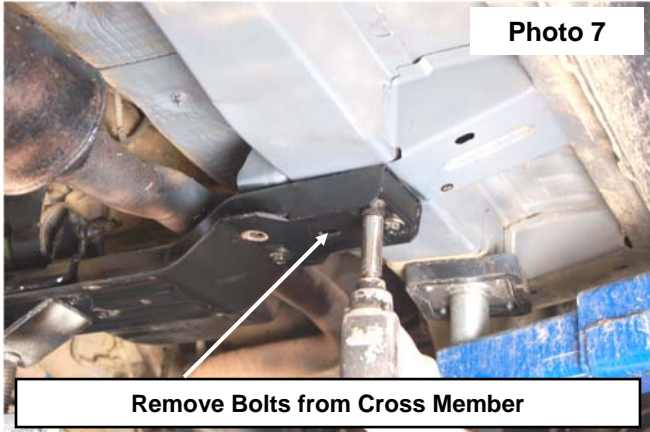
8. Remove the track bar using a 19mm wrench/socket from the driver side mount as shown in **Photo 3** and remove from the axle using a 15mm socket. Retain the axle hardware for reuse.
9. Remove the brake line bracket from the driver and passenger side frame using a 10mm socket. Retain the hardware for reuse. **See Photo 4.**



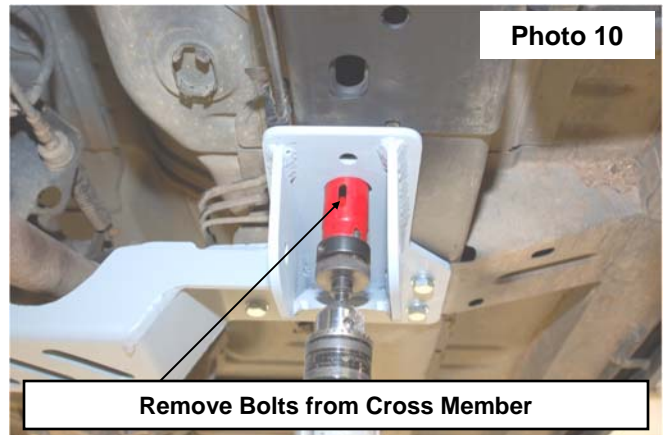
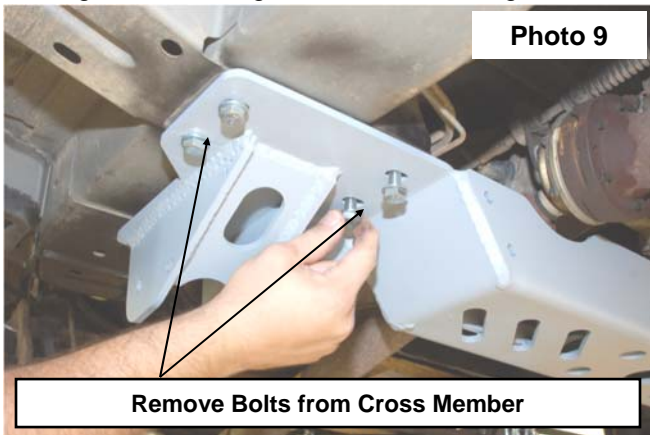
10. Remove the lower control arm mount from the driver and passenger side flush with frame using a cut off wheel or reciprocating saw. **See Photo 5.**
11. Grind smooth and paint to prevent rusting. **See Photo 6.**



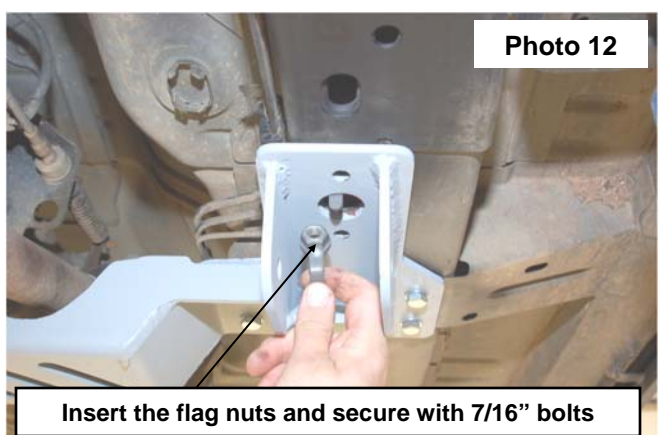
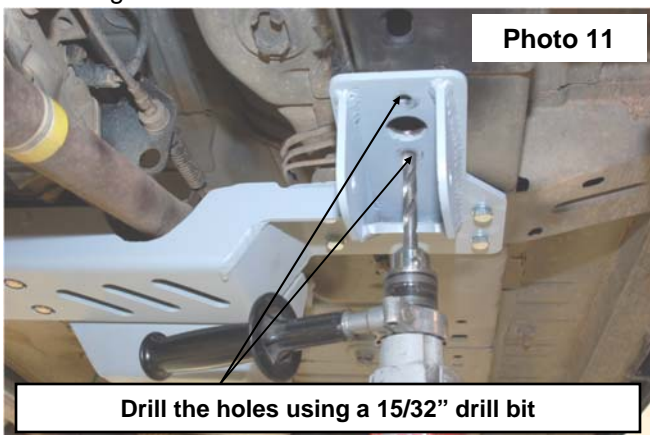
12. Remove the bolt in the center of the cross member securing the transmission to the cross member using a 15mm socket / wrench. Retain the center bolt for reuse.
13. Support the transmission and remove the cross member by removing the 4 bolts on each side using a 15mm socket. **See Photo 7.**
14. Lower the cross member away from the frame.
15. Install the new transmission mount as shown in **Photo 8** using the factory hardware. Do not tighten at this time.



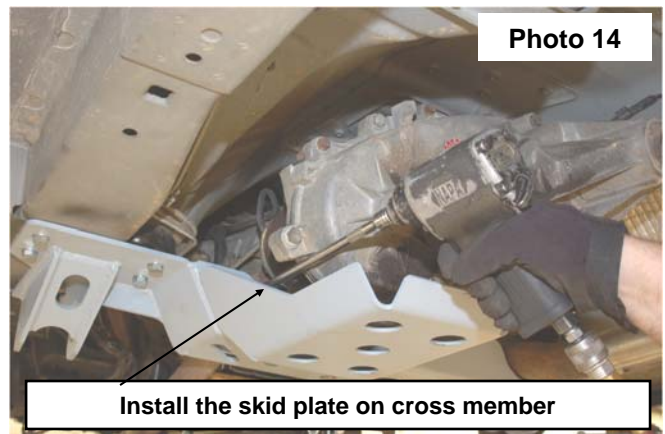
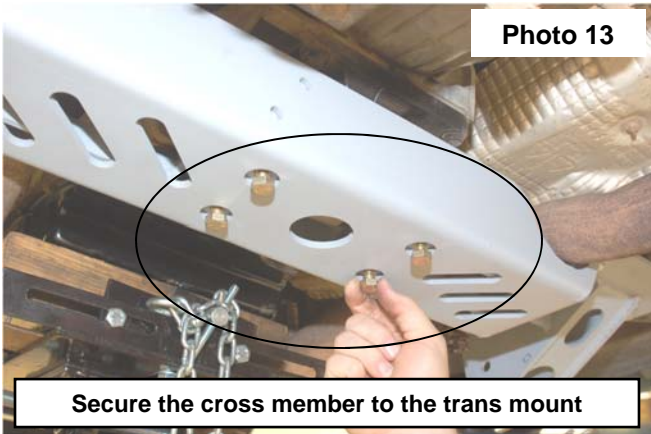
16. Place the new cross member on the frame and install using supplied 10mm x 80mm bolts in the outside holes and the 10mm x 35mm on the inside holes. Tighten using a 15mm socket. **See Photo 9.**
17. Using bracket as a guide, cut a hole using a 1 1/4" hole saw. **See Photo 10.**



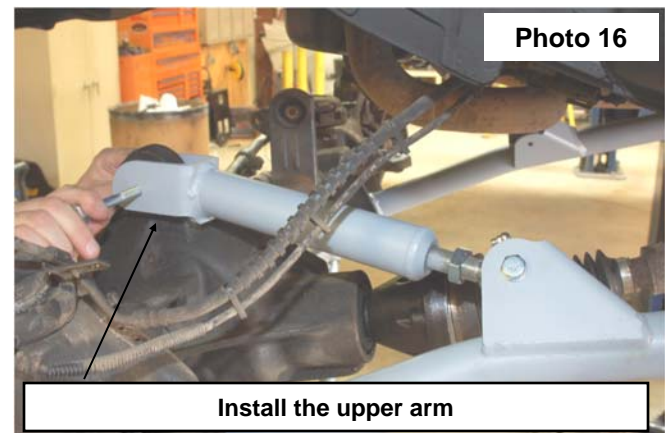
18. Using the bracket as a guide drill the two holes using a 15/32" drill bit. **See Photo 11.**
19. Insert the supplied flag nuts and secure with the supplied 7/16" x 1 1/4" bolts and flat washers. **See Photo 12.** Tighten using a 5/8" socket.



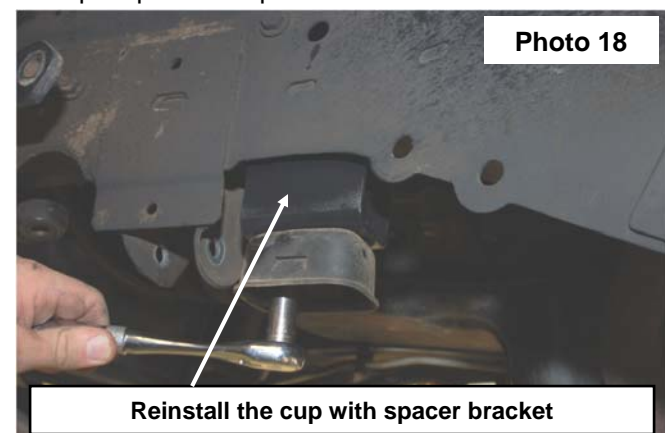
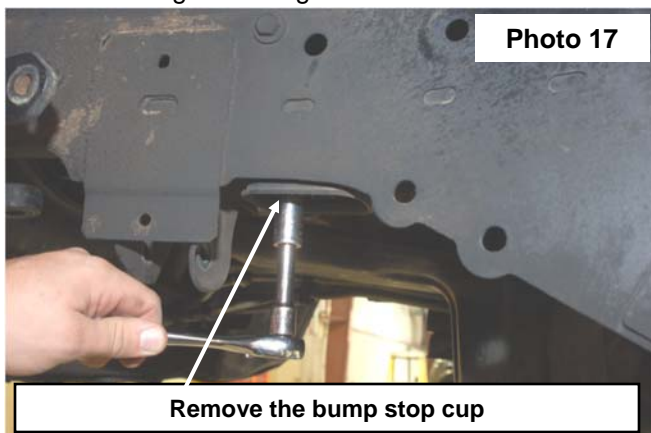
20. Secure the cross member to the transmission mount using the supplied 7/16" x 1 1/4" bolts. Tighten using a 5/8" socket. **See Photo 13.** Tighten the stock transmission bolt.
21. Install the skid plate on the cross member using the supplied 5/16" x 1 1/4" Bolts. **See Photo 14.** Tighten using a 1/2" socket.



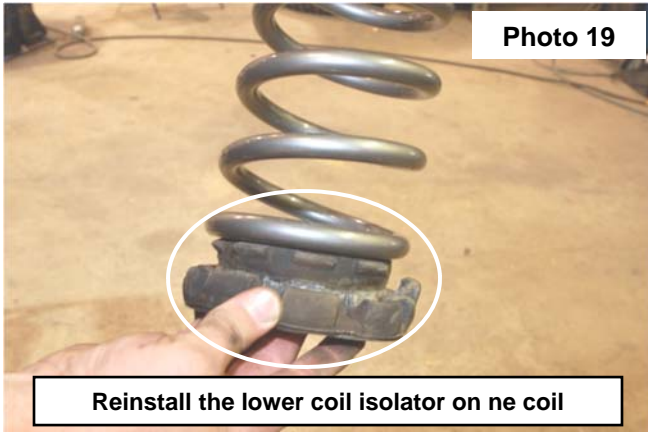
22. Adjust the lower control arm to a measurement of 29 3/4" from center of eye to center of joint and install the lower long arm in the mount. Secure with the supplied 9/16" x 4 1/2" bolts, flat washers and lock nut. Do not tighten at this time. **See Photo 15.**
23. Swing up the lower arm and install on the axle using the factory hardware. Do not tighten at this time.
24. Install the upper arm on the lower arm with the supplied 10mm x 80mm bolt, flat washer and lock nut.
25. Adjust the upper arm to a measurement of 14 5/8" from center of hole to center of joint and install on the axle making sure to place the arm on the axle correctly with the cutout down for clearance. Secure with the supplied 10mm x 80mm bolts, flat washers and lock nuts. **See Photo 16.**



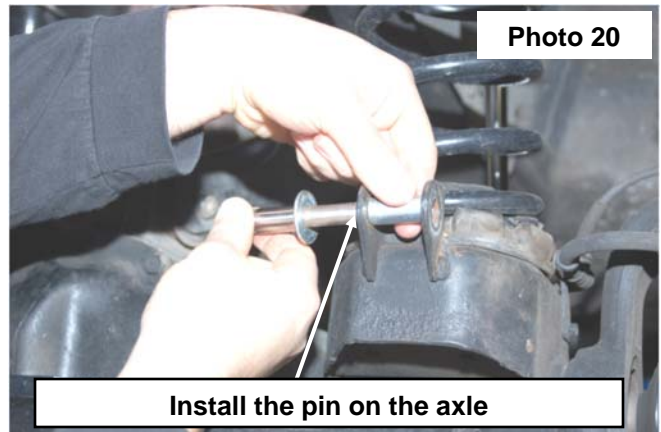
26. Remove the bump stop from the cup and remove the cup from the frame using a 13mm socket. **See Photo 17.**
27. Install the spacer bracket and reinstall the factory cup using the supplied 8mm x 95mm bolts and flat washers. **See Photo 18.** Tighten using a 1/2" socket. Reinstall the rubber bump stop in the cup.



28. Remove the stock coil isolator from the lower end of the stock coil and reinstall on the lower end of the new coil. **See Photo 19.**
29. Install the new coil in the lower and upper spring seats.
30. Install supplied pin on the axle with supplied crush sleeve in stock mount. **See Photo 20.** Hold using a screwdriver & tighten 1/2" lock nut using a 3/4" wrench.



Reinstall the lower coil isolator on ne coil

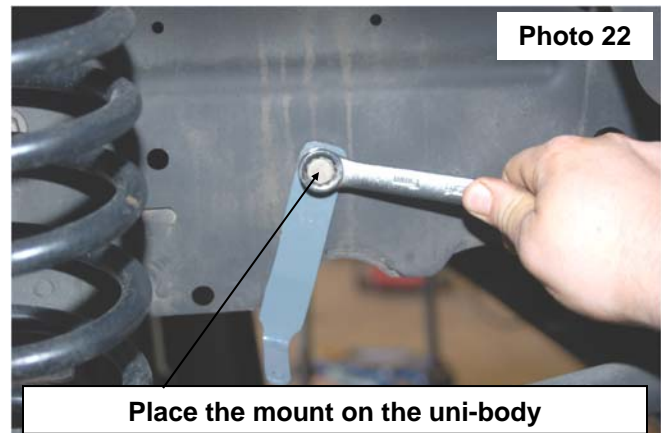


Install the pin on the axle

31. Assemble the sway bar link with the link body, the jam nut and rod end. Adjust the sway bar to a length of 11 1/4" from top to bottom. Tighten the jam nut against the rod end using a 19mm & 5/8" wrench.
32. Install the sway bar link on the upper sway bar mount with the supplied 12mm flange lock nut. **See Photo 21.** Tighten using a 18mm & 5/8" wrench.
33. Remove the stock bolt from the vehicle on both driver and passengers side and install the sway bar bracket with stock hardware. Tighten bolt using a 15mm wrench. **See Photo 22.**

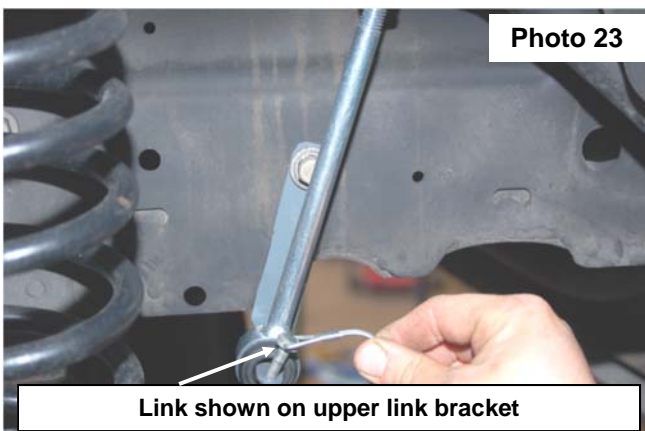


Install the link on the mount

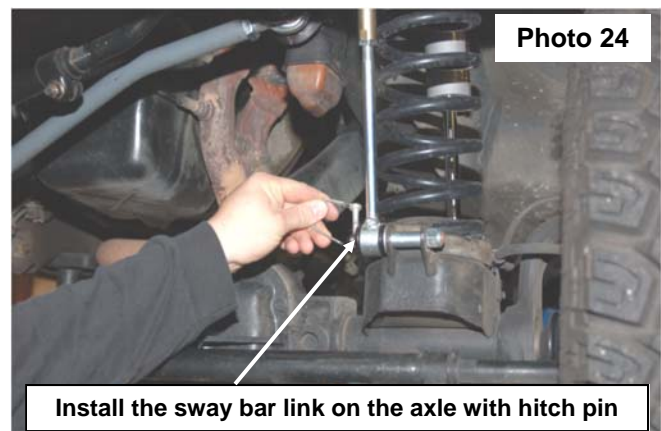


Place the mount on the uni-body

34. With the sway bar link installed on the supplied frame bracket, swing the bracket and sway bar link up and position the bracket on the frame as shown in **Photo 23.**
35. Install on the lower axle mounting pin. Install the disconnect hitch pin. **See Photo 24.** Note: When disconnected the hitch pin will be used on the upper mount to secure the sway bar link to the mount.

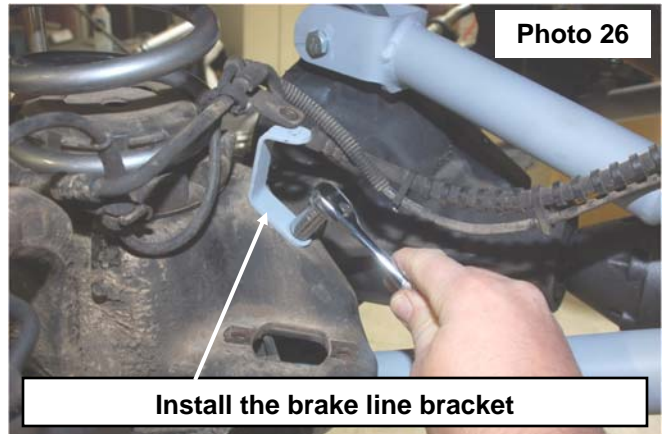


Link shown on upper link bracket

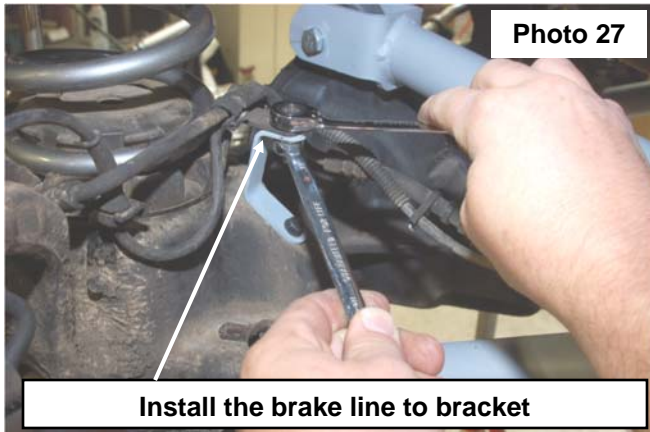


Install the sway bar link on the axle with hitch pin

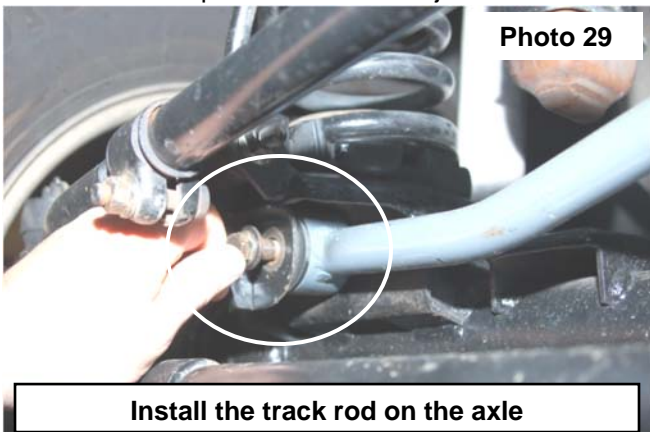
36. Remove the driver and passenger brake line bracket from the axle using a 10mm socket. **See Photo 25.**
37. Install the brake line bracket on the axle using the factory bolt. Tighten using a 10mm socket. **See Photo 26.**



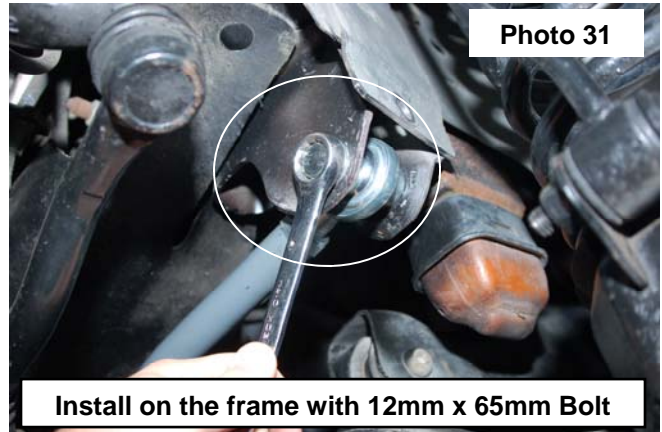
38. Reinstall the brake line on the new bracket using the supplied 1/4" x 1" bolt, flat washer and lock nut. Tighten using a 11mm socket / wrench. **See Photo 27.**
39. Reinstall the brake line bracket on the frame that was removed in Step# 4. Tighten using a 10mm socket.
40. Install the shock absorbers using the supplied 5/16" x 1" bolts, flat washers, lock nuts in the lower and the bushings/ cup washers and nuts on the upper. Tighten the lower using a 1/2" socket / wrench on the lower and the upper using a 9/16" socket. **See Photo 28.**



41. Install the tires and wheels.
42. Jack up vehicle, remove the jack stands and lower the vehicle to the ground.
43. Locate the track bar and lubricate the supplied bushings / sleeves with a lithium grease and assemble the bushings and sleeves in the track bar end.
44. Install the track bar on the axle mount with the factory hardware. **See Photo 29.** Do not tighten at this time.
45. Assemble the spacers on the heim joint as shown in **Photo 30.**

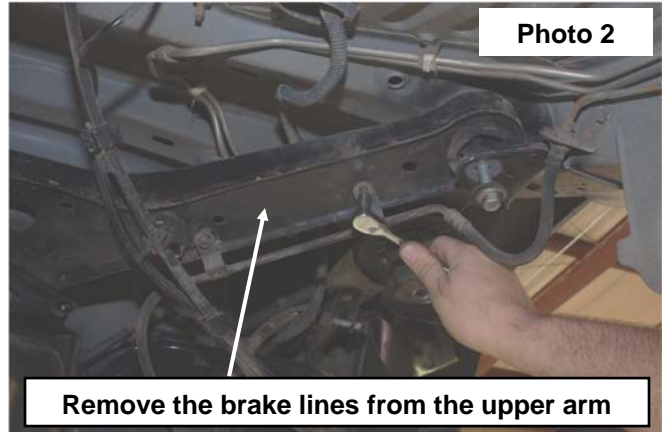
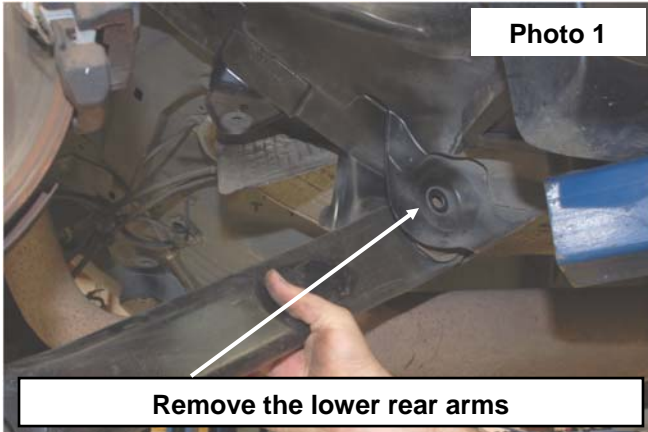


46. Make sure the body of the vehicle is centered over the axle and adjust the end as needed and install the end on the frame with the supplied 12mm x 65mm hardware. Do not tighten at this time. **See Photo 31.**
47. After making sure the body is centered, tighten the jam nut using a 1 1/8" wrench on the track rod end. **Note**
Make sure flex joint housing is centered in mount before tightening jam nut. Should not be touching either side.****
48. Tighten the frame end with a 18mm & 19mm wrench and on the axle end with a 15mm socket.
49. Tighten lower arm axle hardware using a 21mm socket / wrench.
50. Tighten the lower arm frame mount using a 21mm & 22mm socket / wrench.
51. Tighten the upper arm hardware using a 17mm socket / wrench.

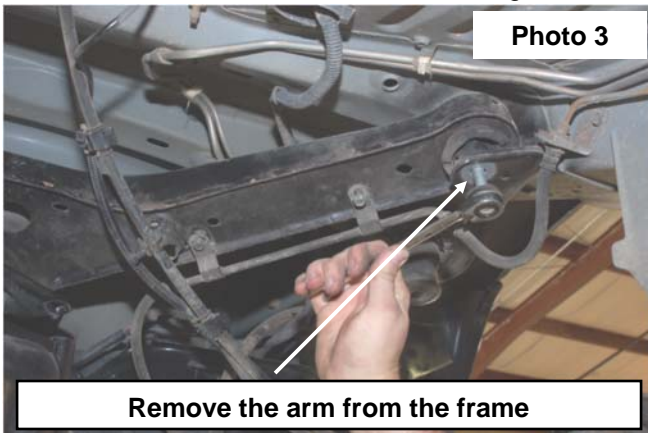


REAR INSTALLATION INSTRUCTIONS

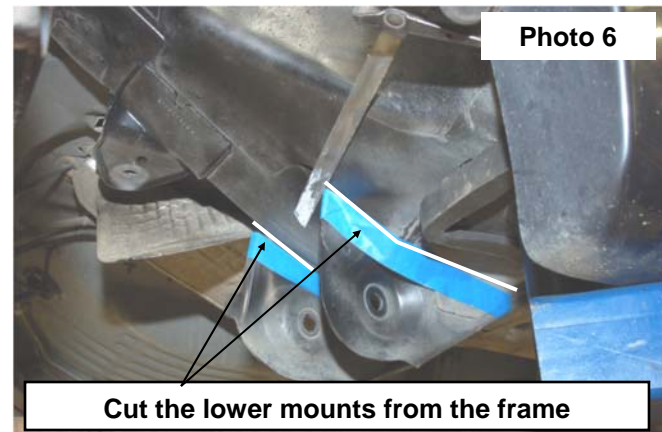
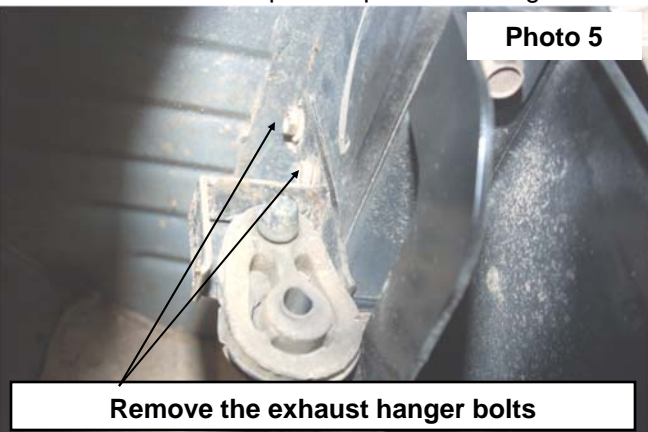
1. Chock the front wheels.
2. Jack up the vehicle and place the vehicle on jack stands.
3. Support the rear axle with a floor jack.
4. Remove the lower control arms using a 21mm socket / wrench. Retain the stock hardware.
5. Remove the 4 brake line brackets securing the brake lines on the upper arm using a 13mm socket. **See Photo 2.**



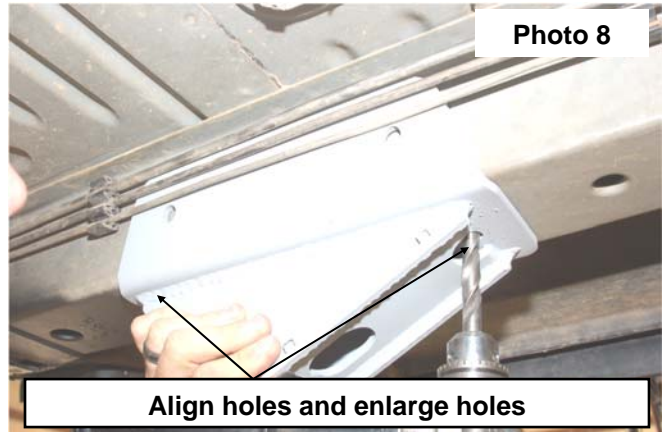
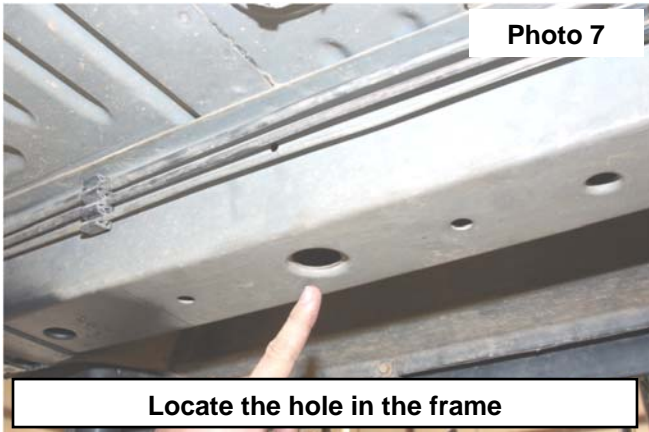
6. Remove the upper arm hardware using a 21mm socket. **See Photo 3.**
7. Remove the arm from the differential using a 15mm wrench and remove the arm from the vehicle. **See Photo 4.**



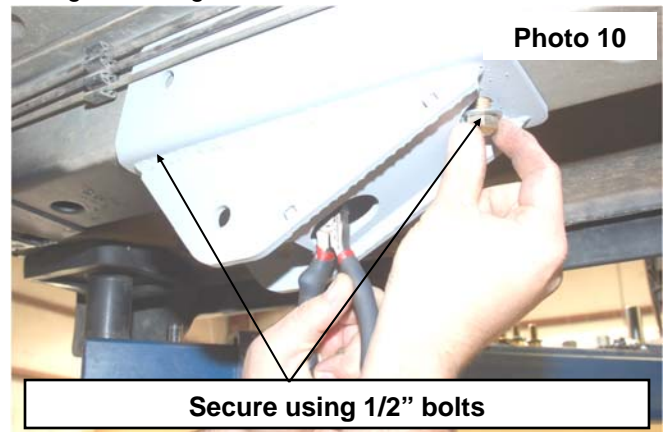
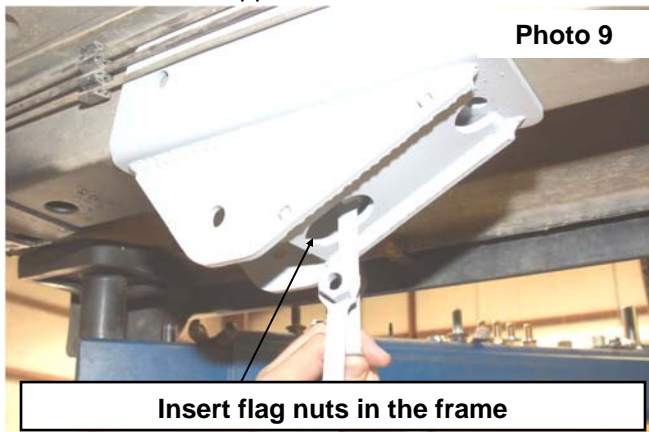
8. To ease installation of new drop brackets, remove the two exhaust hanger bolts shown in **Photo 5** on the passenger side using a 13mm socket and let exhaust hang. Secure to make sure the exhaust does not over extend and damage the exhaust system.
9. Using a cut off wheel or reciprocating saw as shown in **Photo 6** remove the lower arm mounts.
10. Grind the mount and paint to prevent rusting.



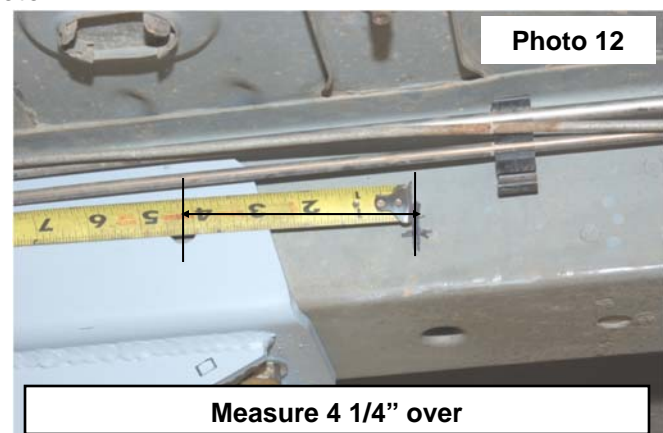
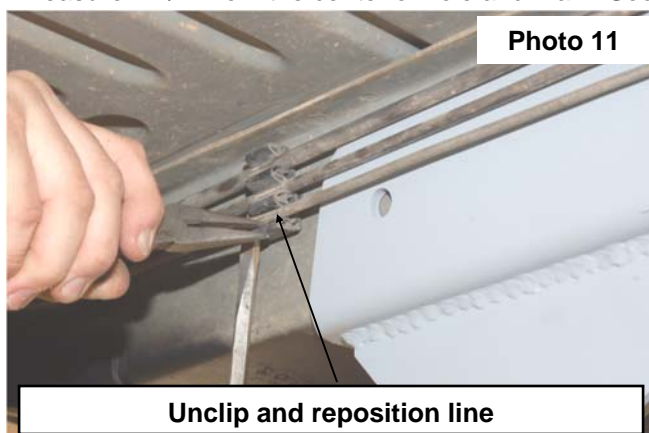
11. Locate the hole on the frame as shown in **Photo 7**.
12. Place the bracket on the frame as shown and align the two holes in the bracket on the passenger side. **The Driver side will align with the large hole. The two small holes are not present on the driver side.** Enlarge / Drill the holes using a 17/32". **See Photo 8. The holes must be aligned prior to drilling!!**



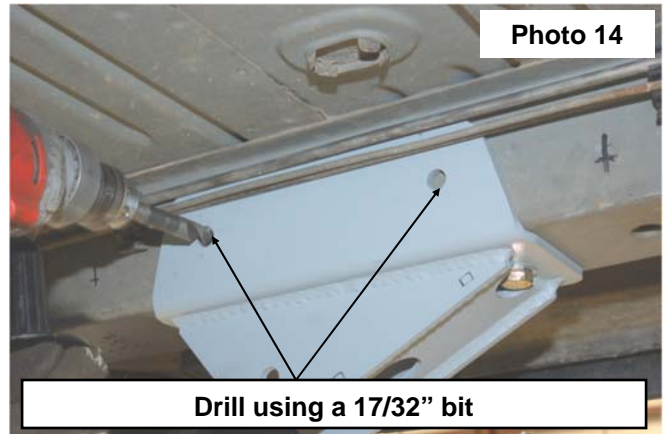
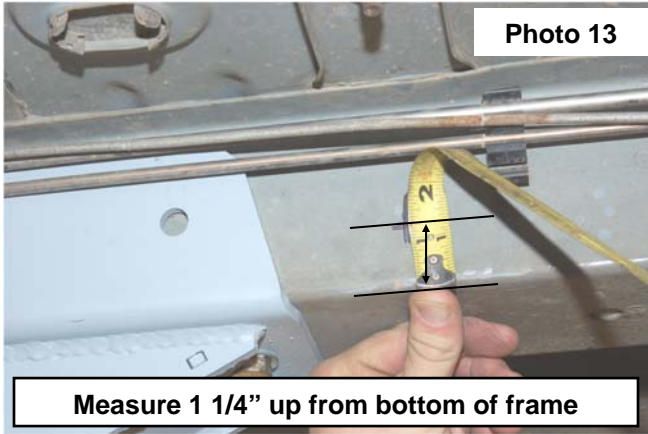
13. Insert the supplied flag nuts in the frame as shown in **Photo 9**. Needle nose pliers will aid in the installation of these flag nuts.
14. Secure with the supplied 1/2" x 1 1/2" bolts and flat washers. Tighten using 3/4" socket. **See Photo 10.**



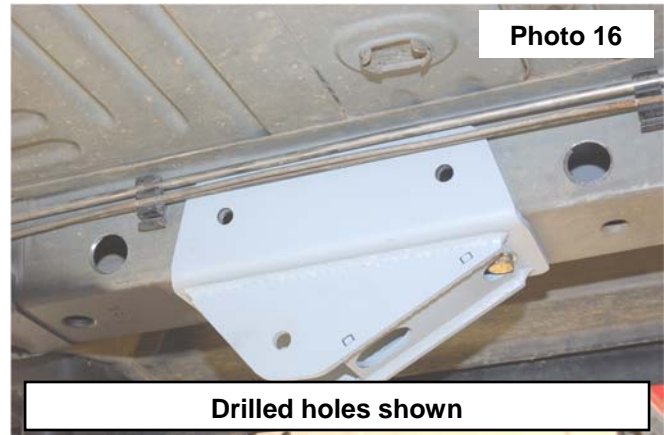
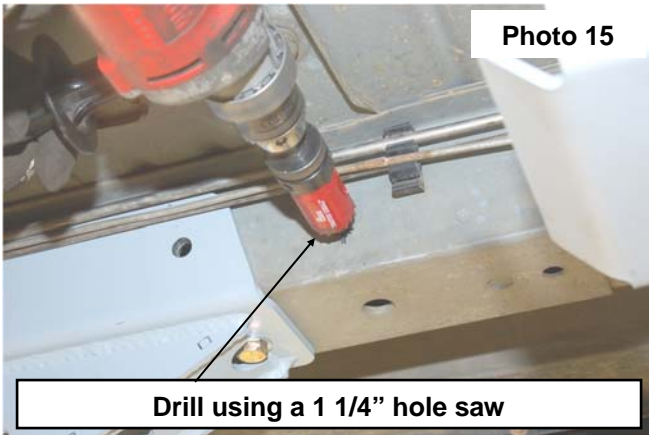
15. Reposition the brake line as shown to prevent damage while drilling. **See Photo 11.**
16. Measure 4 1/4" from the center of hole and mark. **See Photo 12.**



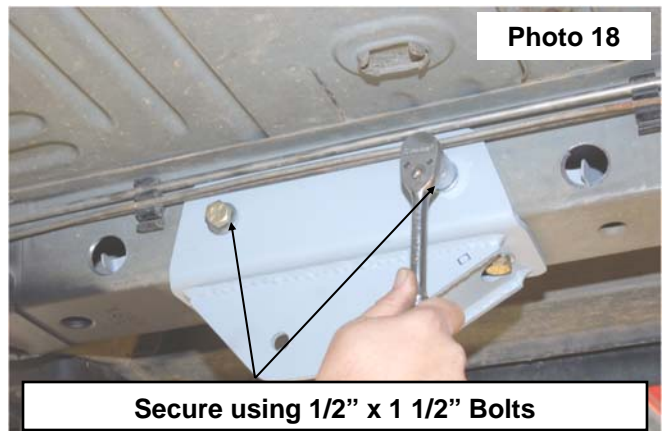
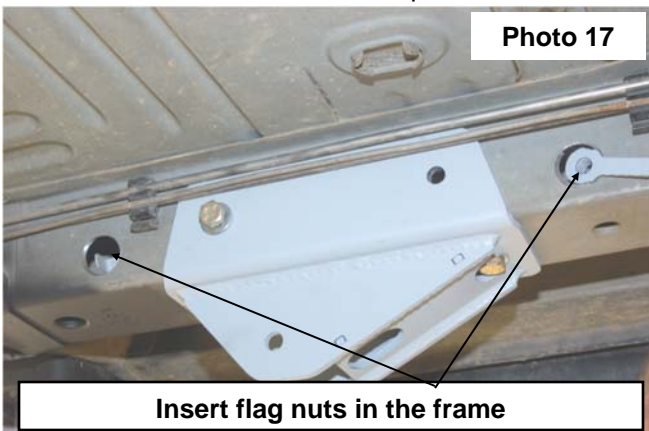
17. Measure up 1 1/4" from the bottom of the frame as shown and mark. **See Photo 13.**
18. Using bracket as a guide, drill holes using a 17/32" bit. **See Photo 14. Use caution when drilling close to fuel or brake lines!!**



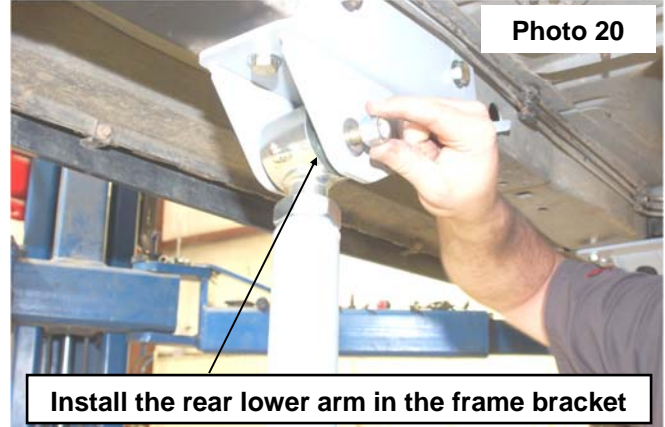
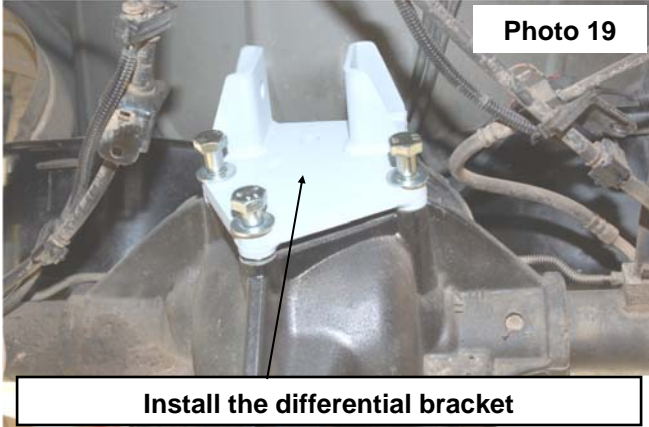
19. Drill the marked holes front and rearward of the bracket using a 1 1/4" hole saw. **See Photo 15.**
20. **Photo 16** shows the holes in the frame.



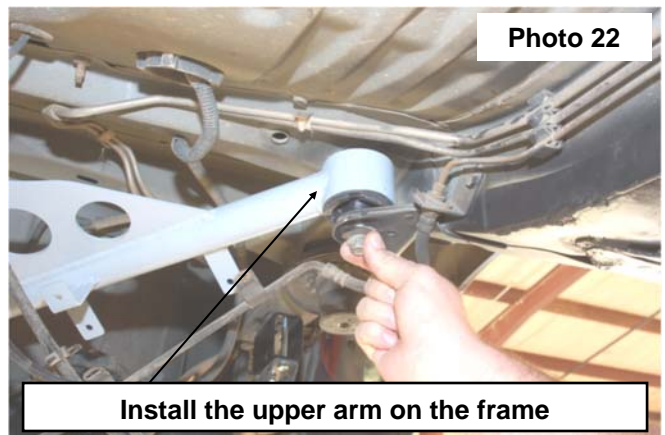
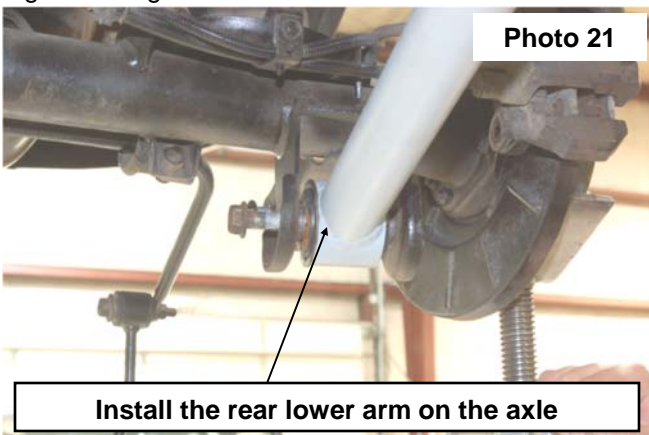
21. Paint may be applied to the holes to prevent rusting
22. Insert the flag nuts in the frame and secure the bracket using the supplied 1/2" x 1 1/2" Bolts and flat washers. **See Photo 17 & 18.** Tighten using a 3/4" socket.
23. Reinstall the brake lines in the clips on the frame.



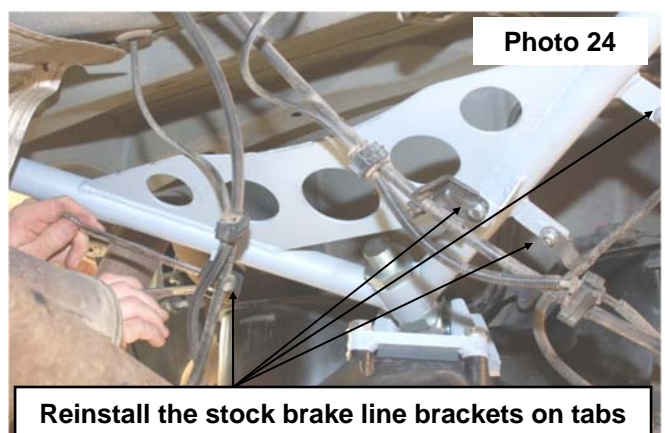
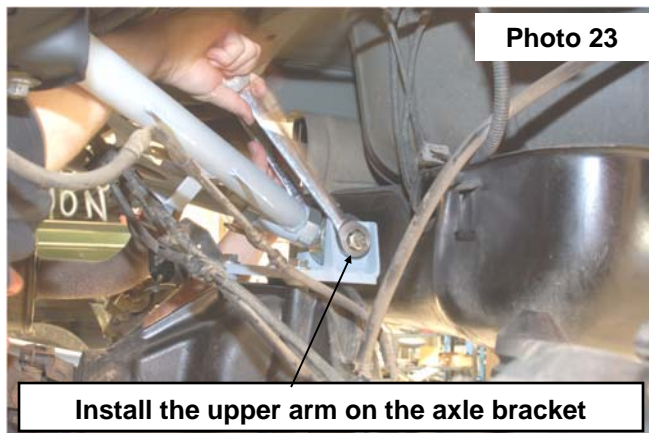
24. Install the differential bracket as shown using the 14mm x 50mm bolts and flat washers. **See Photo 19.** Tighten using a 7/8" wrench.
25. Adjust the arm to a measurement of **34 1/2"** from center of eye to center of eye and tighten jam nut.
26. Install the lower arm in the frame bracket using the supplied 9/16" x 4 1/2" bolts, flat washers and lock nuts. **See Photo 20.** Do not tighten at this time.



27. Install the lower arm on the axle using the stock hardware. **See Photo 21.** Do not tighten at this time.
28. Assemble the rear upper y-link with the flex joint to a measurement of **7 3/8'** from the flat edge of the center brace to the center of the flex joint. Install the new y-link in the factory location on the frame using the factory hardware and tighten using a 15mm socket. **See Photo 22.**

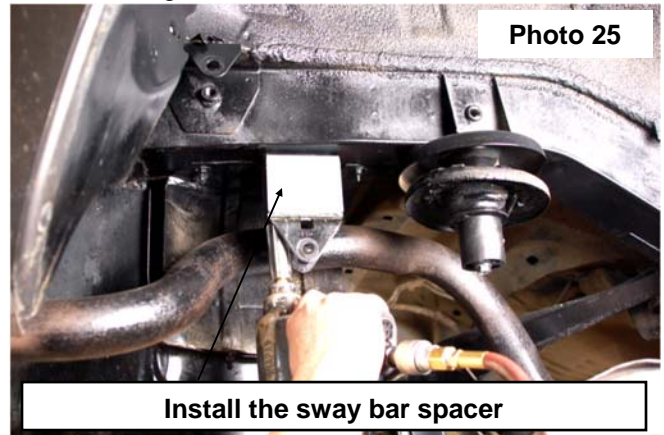
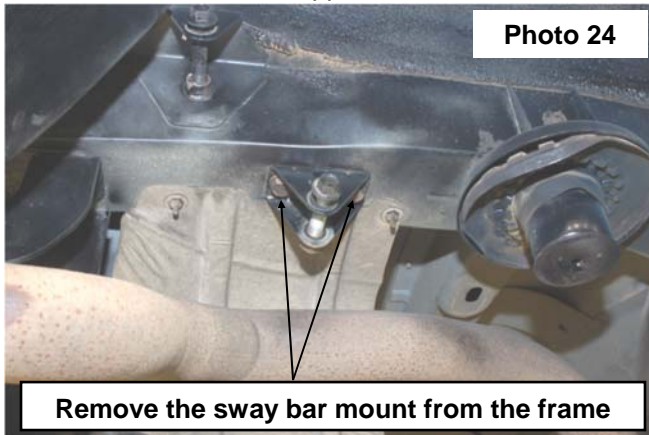


29. Install the Y-link to the new axle bracket with the supplied 9/16" x 4 1/2" Bolt, flat washers and lock nut. **See Photo 23.** Tighten using a 21mm x 22mm socket / wrench.
30. Reinstall the brake line brackets to the tabs on the Y-link arm with the supplied 1/4" x 3/4" bolts, flat washers and lock nuts. **See Photo 24.**



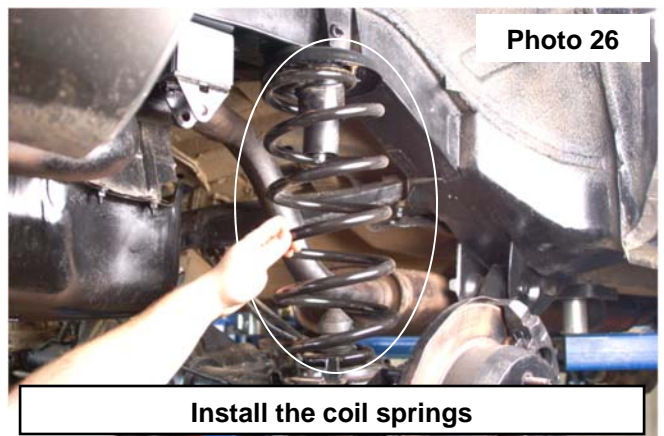
30. Remove the sway bar bracket from the frame using a 15mm socket. **See Photo 24.**

31. Install bracket with the supplied 10mm x 90mm bolts and flat washers. Tighten with a 17mm socket. **See Photo 25.**



32. Install the supplied 2" tall spacer with the supplied 3/8" x 3 1/4" self tapping bolts. **See Photo 25.**

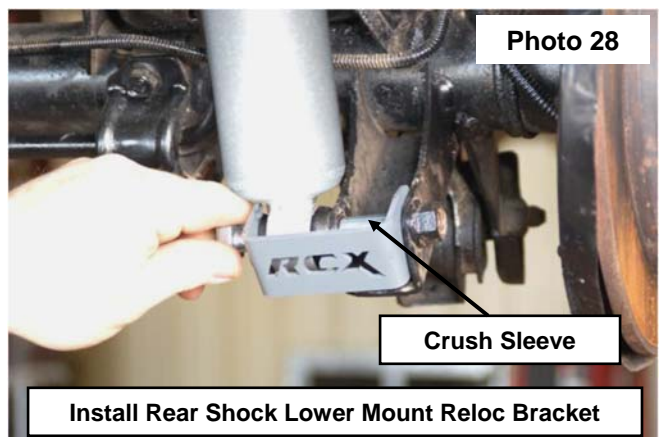
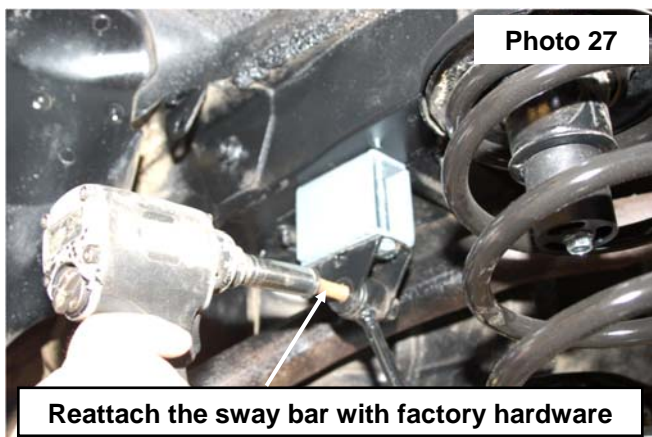
33. Install the new coil springs. **See Photo 26.**



34. Swing up the sway bar link and reattach with the factory hardware. Tighten using a 15mm socket / wrench. **See Photo 27.**

35. Install the bushing and sleeves in rear shocks—a liquid soap may ease installation of bushing into shock eye. Install new rear shocks in the upper mount with the supplied shock sleeve /washer with the washer on the inside of the vehicle with the factory hardware. Tighten using a 15mm socket / wrench.

36. Install the lower shock brackets with the supplied 12mm x 100mm (approx 4") bolts, nuts/washers and sleeves from Bag2 and bushings/sleeve from Bag3. Tighten using a 19mm wrench. **See Photo 28.** The relocation of the shock is needed to run wider tires with stock offset wheels. Without the bracket the shock will rub the tire under travel given the 3 link design of the Jeep.



37. Install the tires and wheels.
38. Jack up the vehicle and remove the jack stands. Lower the vehicle to the ground.
46. Tighten lower control arms to frame hardware using a 21mm & 22mm socket / wrench and the axle hardware using a 21mm socket/ wrench. **Note** Make sure flex joint housing is centered in mount before tightening jam nut. Should not be touching either side.****

POST INSTALLATION

1. Rotate driveshaft and check for interference at differential yoke and u-joint. If necessary, lightly dress casting(s) and/ or U-joint tabs in order to eliminate binding.
2. Have a qualified alignment center realign front end to factory specs. As a general rule you set caster to the minimum of the factory spec and set toe-in to the maximum.
3. Install Warning to Driver decal on sun visor.
4. Adjust headlights to proper settings
5. Grease all control arms and periodically grease as required.
6. All components must be retightened after 500 miles, and every three thousand miles after installation.

TROUBLESHOOTING TIPS

Problem: Your Jeep does not steer, or track correctly.

Possible Solution: The steering geometry is corrected when the pitman arm is installed. If the steering is short or offset after installing the lift with the pitman arm, the alignment shop should adjust the linkages on the front axle to line the steering geometry back.

Possible Solution: If you are experiencing bump steer or axle float after the alignment, you will need to check the track bar to ensure that the tie rod end is not worn or damaged. This will allow the axle to float from side to side.

Problem: You experience "High Speed Wobble" after hitting bump at 35-40mph.

Possible Solution: "Death wobble" is usually a combination of items and typically there is not one easy fix. We recommend you follow these steps when trying to identify source. Start by looking for any loose movement in the steering. Watch the tie-rod ends where they connect to the steering knuckle arms. Watch the drag link and the ends. Watch the track bar—it should remain tight without side to side movement when dry turning. Make sure your tires are balanced—we recommend they be "road force" balanced. Lack of proper caster angles may be the problem. Last but not least is the steering stabilizer. A new stabilizer will not fix the problem, but a worn out one will make the situations worse.

Thank you for purchasing a Rough Country Suspension System.

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