

### MAHINDRA 2019 Roxor 2" Leveling Kit

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.

If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.

Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.

Periodically check all hardware for tightness.

This suspension system was developed using a 285/75R-16 tire on a factory steel 16" wheel with a 1.5" wheel spacer.

**KIT CONTENTS:**

- Driver Side Leaf Spring Bracket x 1
- Pass Side Leaf Spring Bracket x 1
- Driver Side Shock Bracket x 1
- Pass Side Shock Bracket x 1
- Front Shackles x 4
- Sleeves x 2
- Extended Brake Lines x 2

**TOOLS NEEDED:**

- 13mm Wrench and Socket
- 14mm Wrench and Socket
- 17mm Wrench and Socket
- 18mm Wrench and Socket
- 19mm Wrench and Socket
- 24mm Wrench and Socket

**HARDWARE INCLUDED:**

- 1/2-13 x 4 1/2 Hex Head Bolt x 2
- 1/2 Flat Washers x 4
- 1/2-13 Nylock Nuts x 2
- 5/8-11 x 4 1/2 Hex Head Bolt x 2
- 5/8-11 x 2 1/2 Hex Head Bolt x 2
- 5/8-11 Flat Washers x 6
- 5/8-11 Toplock Nuts x 4



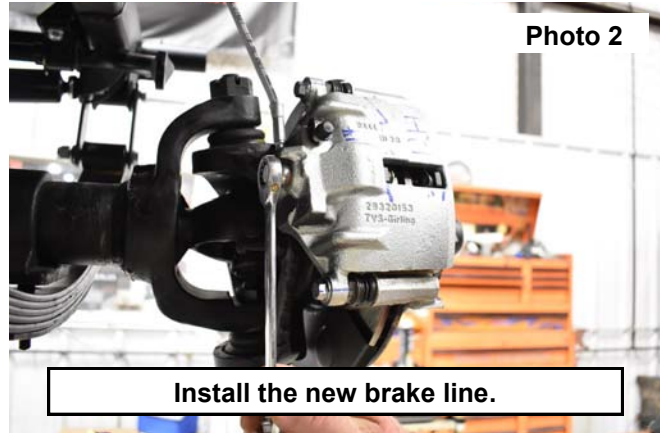
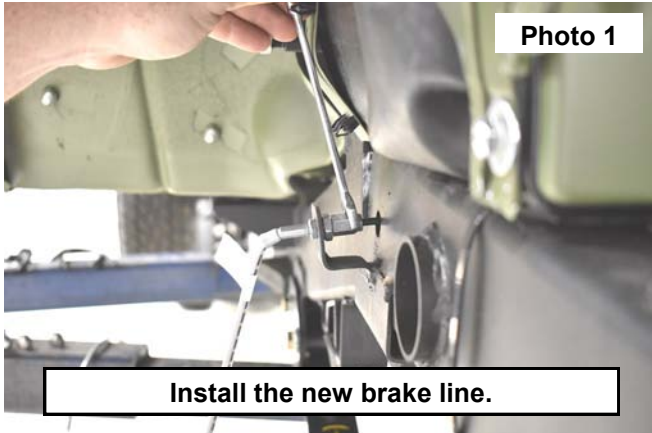
**Torque Specs:**

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16"	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8"	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16"	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2"	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16"	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8"	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4"	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

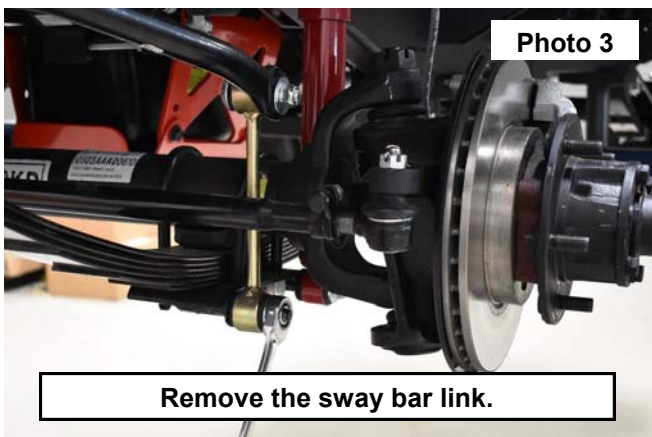


## INSTALLATION INSTRUCTONS

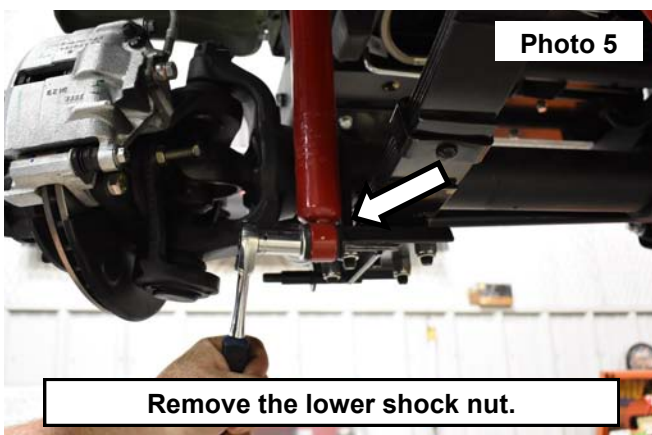
1. Park the vehicle on a level surface and chock the rear wheels. Lock the steering wheel in the straight position.
2. Jack up the front of the vehicle. Place jack stands under the frame rails and lower onto jack stands letting the front suspension hang.
3. Remove the tires and wheels.
4. Remove the brake line on the frame side of the vehicle using a 13mm wrench. Then remove the brake line from the frame mount using a 17mm wrench.
5. Remove the banjo bolt on the caliper using a 14mm wrench. Retain the banjo bolt for reuse.
6. Install the new brake line on the frame mount of the vehicle. Using a 13mm wrench. **See Photo 1.**
7. Install the new copper washer and the retained banjo bolt to install the brake line onto the caliper. Seat the banjo bolt using a 14mm wrench. Do not over tighten. **See Photo 2.**
8. After the brake line installation Bleed the brakes.



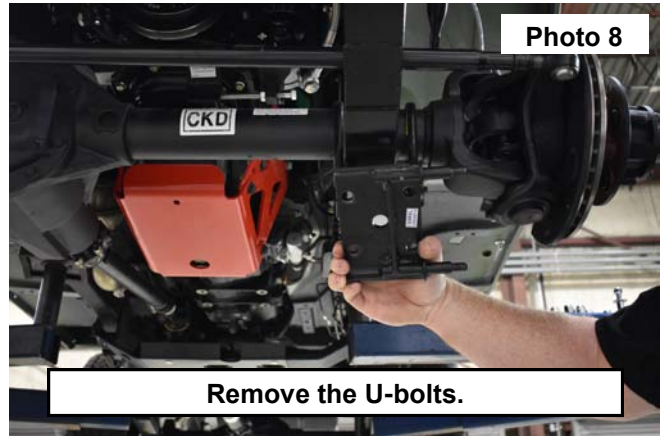
9. Using a 18mm wrench remove the bottom nut on the sway bar link. Then using a 18 and a 24mm wrench on the top bolt and nut. Remove the sway bar link. **See Photo 3.** Retain all hardware. It will be reused.
10. Remove the nut on the upper shock mount using a 18mm socket. Retain hardware for reuse. **See Photo 4.**



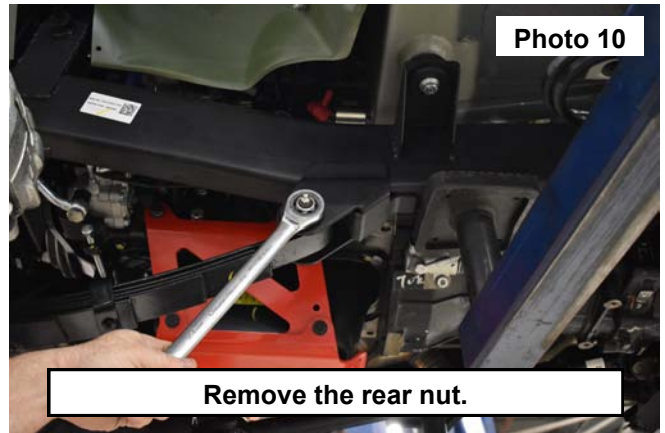
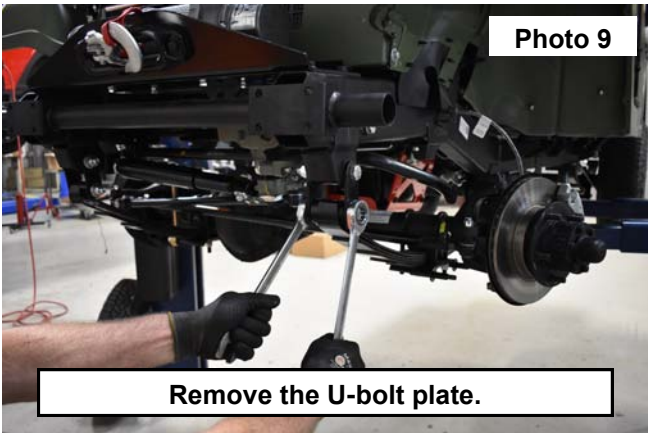
11. Remove the nut from the lower shock mount using a 18mm socket. Retain hardware for reuse. **See Photo 5.**
12. Remove the shock from the upper and lower mounts. Set aside in a safe place for reuse. **See Photo 6.**



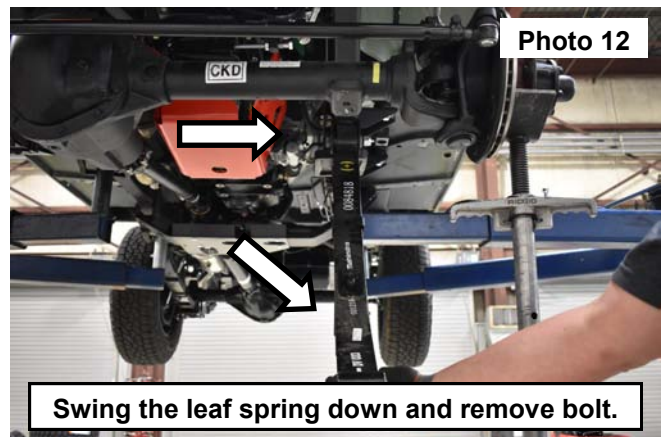
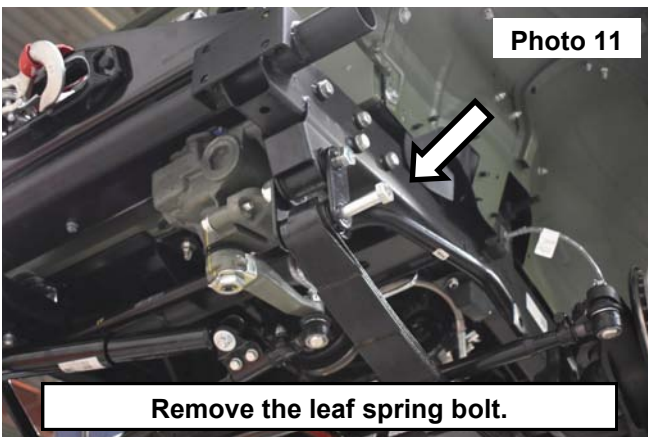
13. Support the axle on each side using jack stands.
14. Remove the nuts from the U-bolts using a 19mm socket. Retain hardware for reuse. **See Photo 7.**
15. Remove the U-bolt plate and the U-bolts. Retain for hardware reuse. **See Photo 8.**



16. Remove the nut from the front lower shackle bolt in the leaf spring using a 24mm wrench. **See Photo 9.**
17. Remove the nut from the rear leaf spring frame mount bolt using a 24mm wrench. **See Photo 10.**

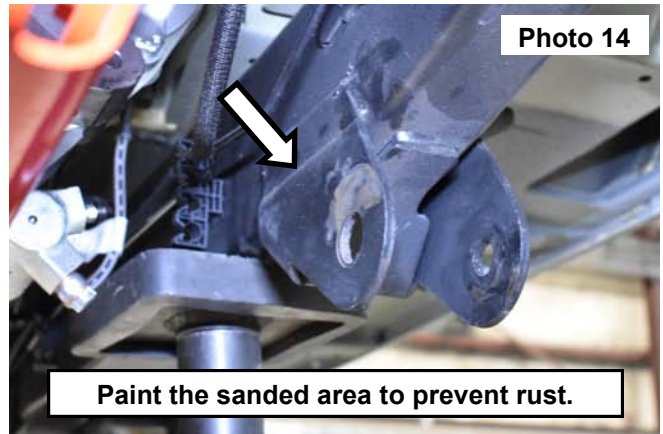
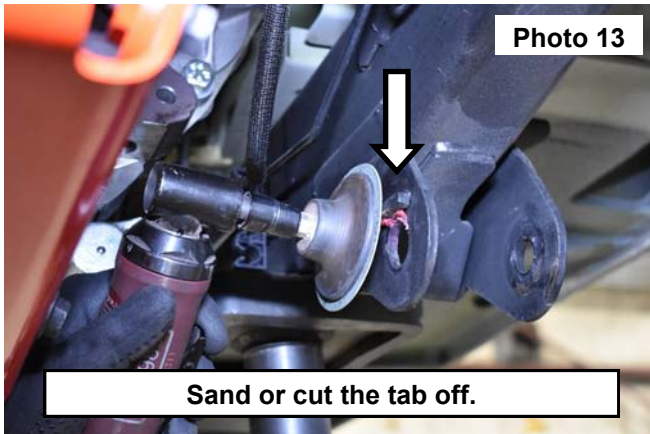


18. Support the leaf spring by hand and remove the bolt from the shackle and the leaf spring. **See Photo 11.**
19. Let the leaf spring swing down then support the leaf in the rear while removing the bolt from the rear leaf spring mount. Remove the leaf spring from the frame mount. Set aside for reuse and retain all hardware for reuse. **See Photo 12.**



20. Sand or cut the tab off of the rear leaf spring mount. **See Photo 13.**

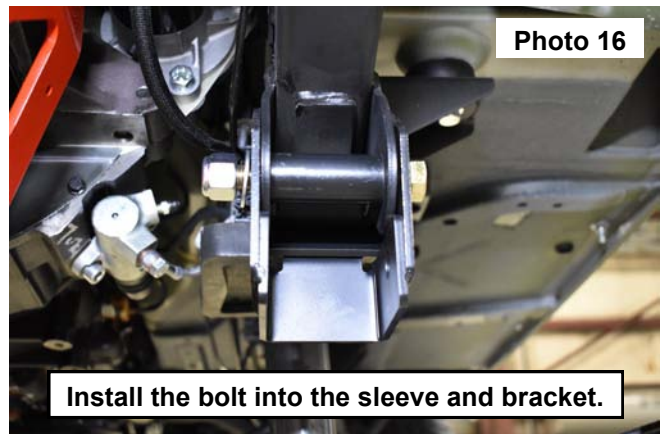
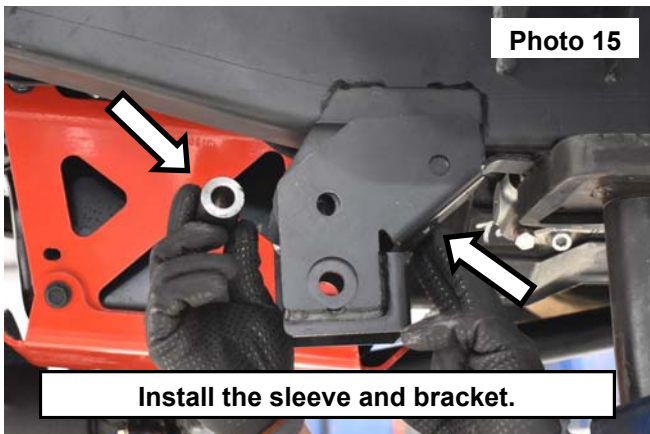
21. Paint the sanded area to prevent rust. **See Photo 14.**



22. Install the sleeve into the leaf spring mount on the frame. Then install the new leaf spring drop mount onto the frame mount. **See Photo 15.**

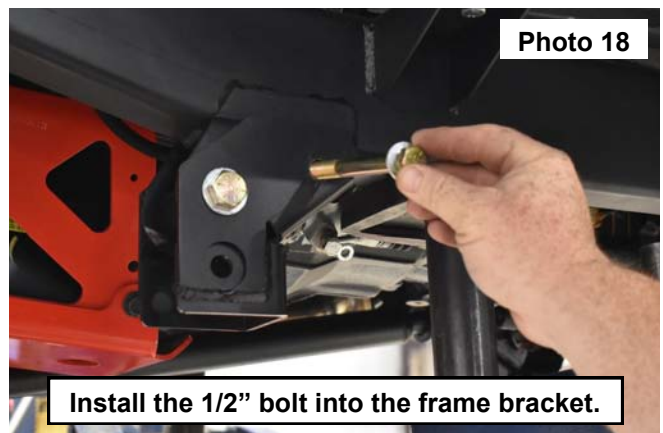
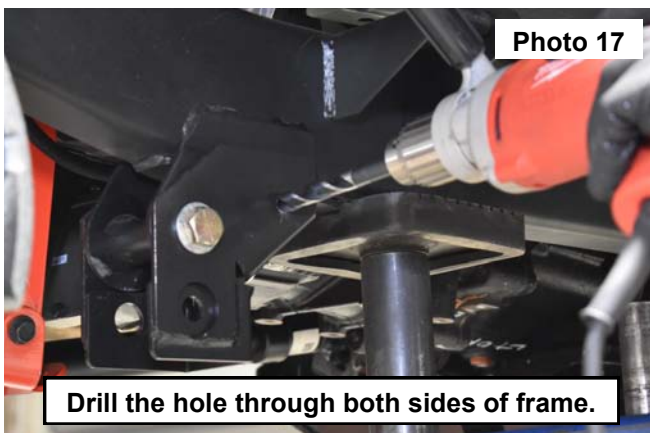
23. Install 1 of the supplied 5/8-11 x 4 1/2 Hex head bolts (2) 5/8 Flat washers and (1) 5/8-11 Toplock nut through the new mount, OE mount and the sleeve installed on the frame. **See Photo 16.**

24. Tighten the 5/8 bolt using (2) 24mm wrenches. Snug the bolt to the bracket, secure the bracket to the back of the frame bracket, locking it into place Torque the 5/8 bolt to 135 ft-lbs. using a 24mm wrench and socket.

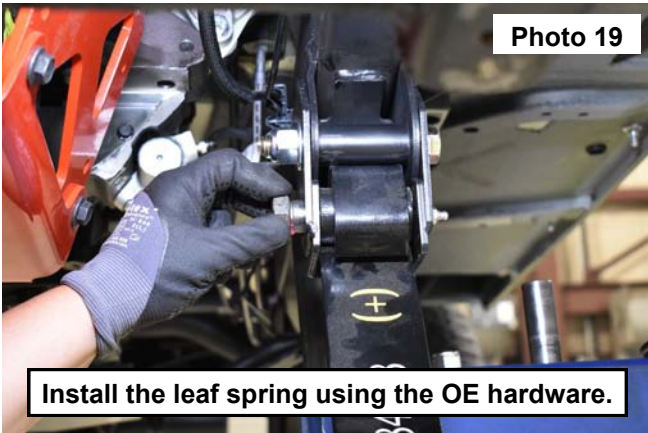


25. Using a 17/32— 0.5313 Drill bit to drill a hole through the frame on both sides using the bracket as a template. **See Photo 17.**

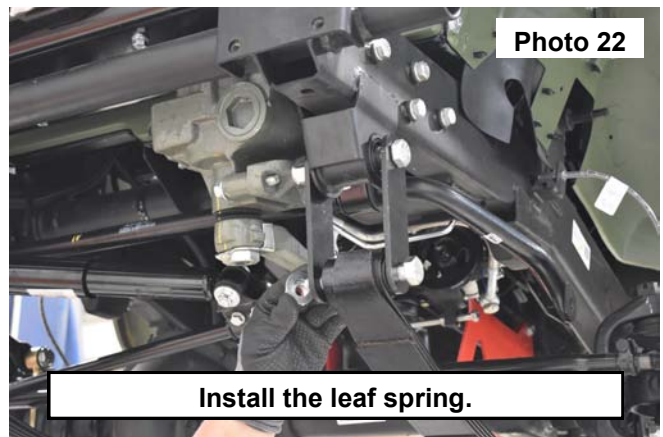
26. Install 1 of the supplied 1/2-13 x 4.5 hex head bolts (2) 1/2 flat washers and (1) 1/2-13 nylock nut. Through the bracket and frame to secure the bracket to the frame. Torque the 1/2" bolt to 65 ft-lbs. using a 3/4 socket and wrench. **See Photo 18.**



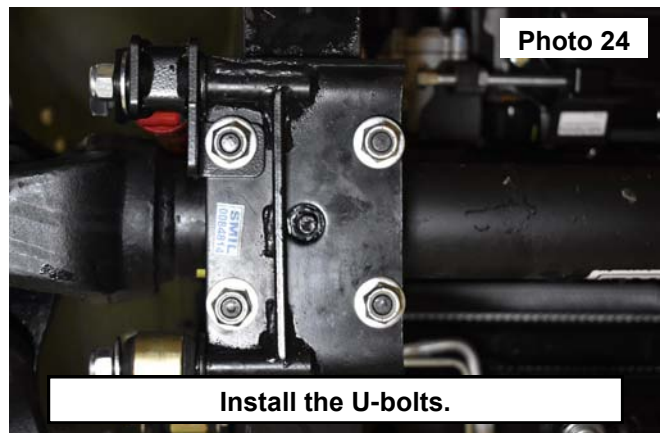
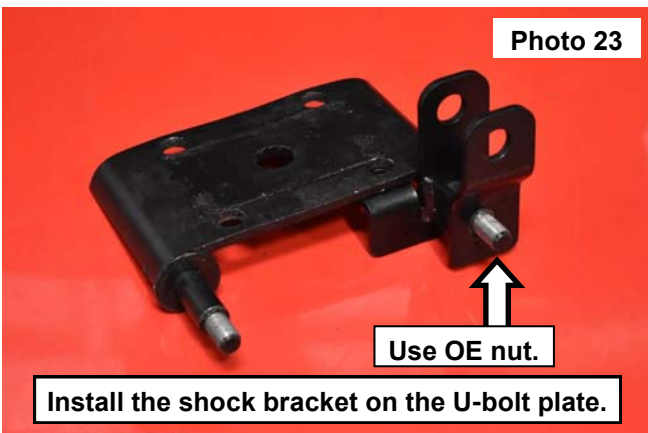
27. Install the leaf spring into the new rear frame mount using the retained OE hardware. The OE bolt should have the grease fitting on the out side of the vehicle. Hand tighten the nut. **See Photo 19.**
28. Remove the upper nut using a 24mm wrench then remove the bolt and shackles. Retain the hardware for reuse. **See Photo 20.**



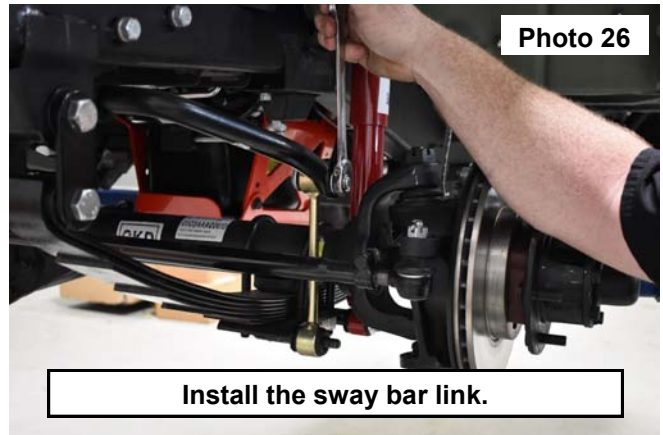
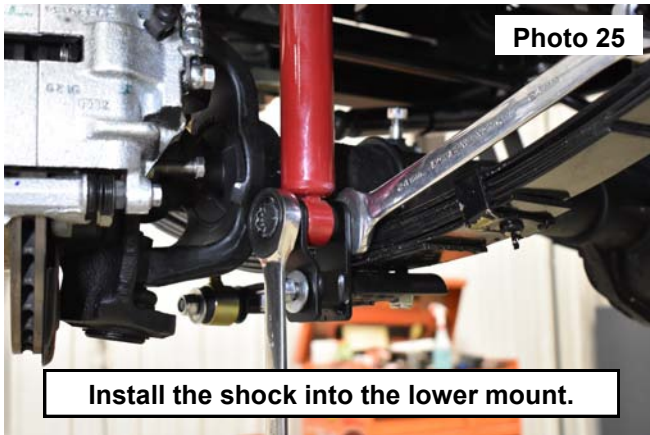
29. Install the new longer shackles using the OE hardware in the top of the frame mount hand tighten only. **See Photo 21.**
30. Raise the leaf spring up into the new shackle then install the lower OE bolt into the shackle and the leaf spring. Hand tighten only. The shackle and leaf spring bolts will be tightened when the vehicle is set on the ground. **See Photo 22.**



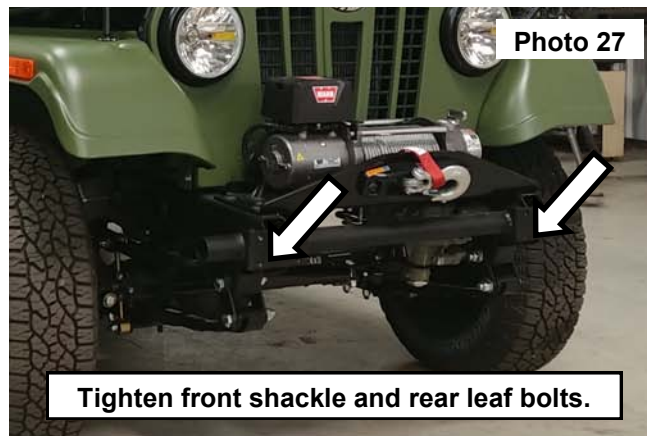
31. Install the shock relocation bracket onto the U-bolt plate using the OE nut on the OE stud. Tighten using a 18mm wrench. **See Photo 23.**
32. Lower the axle onto the leaf spring lining up the center pin on the leaf to the axle.
33. Install the retained OE U-bolts around the axle and into the U-bolt plate secure by using the retained nuts and flat washers. Tighten using a 19mm socket. **See Photo 24.**



34. Install the OE shock onto the upper mount on the frame, secure the shock using the retained nut. Tighten using a 19mm socket.
35. Install the shock into the new lower shock relocation bracket. Secure the shock using 1 of the supplied 5/8-11 x 2 1/2 Hex head bolts (2) Flat washers and (1) 5/8-11 Toplock nut. Use a 24mm wrench and socket to tighten. **See Photo 25.**
36. Install the sway link onto the sway bar and onto the lower U-bolt plate mount using the OE hardware. Tighten using a 18mm socket and wrench. **See Photo 26.**



37. Install the wheels and tires onto the vehicle.
38. Using a jack raise the vehicle up and remove the jack stands. Then lower the vehicle onto the ground.
39. Tighten the front shackle bolts using a 24mm wrench and socket. **See Photo 27.**
40. Tighten the rear leaf spring bolt using a 24mm wrench and socket.
41. Double check that the brake lines are secured and there are no leaks.



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