

ROUGH COUNTRY

SUSPENSION SYSTEMS®

FORD 15-25 F150 2-4.5 Lowering 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 instructions before beginning installation. Check the kit hardware. Be sure you have all needed parts and know where they go.

PRODUCT USE INFORMATION

⚠ WARNING Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur. Generally, braking performance and capability are decreased when larger/heavier tires and wheels are used. Take this into consideration while driving. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

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. We will be happy to answer any questions concerning the design, function, and correct use of our products.

This kit is packaged as a leveling kit—Lowering the front 2" and the rear 4.5".

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 285/55/20 tire on 20" x 9" wheel and a offset of +18. If wider tires are used trimming may be required.

⚠ NOTICE NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Rough Country product should have a "Warning to Driver" decal installed on the inside of the windshield or on the vehicle's dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics.

INSTALLING DEALER - it is your responsibility to install the warning decal and forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service life.

Tools Needed:

T10 Torx Bit	9/16" socket/wrench
T30 Torx Bit	5/8" socket/wrench
8mm Allen Socket	11/16" socket/wrench
10mm socket/wrench	3/4" socket/wrench
11mm socket/wrench	13/16" socket/wrench
13mm socket/wrench	15/16" socket/wrench
15mm socket/ wrench	1 1/16" socket/wrench
17mm socket/wrench	Floor Jack /Jack Stands
18mm socket/wrench	Torsion bar Tool
19mm socket/wrench	Reciprocating Saw
21mm socket/wrench	Drill
22mm socket/wrench	11/16" Drill Bit
24mm socket/wrench	Hand Grinder
36mm socket	Thread Locker

Torque 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
	Class 8.8	Class 10.9
6MM	5 ft/lbs	9 ft/lbs
8MM	18ft/lbs	23 ft/lbs
10MM	32ft/lbs	45ft/lbs
12MM	55ft/lbs	75ft/lbs
14MM	85ft/lbs	120ft/lbs
16MM	130ft/lbs	165ft/lbs
18MM	170ft/lbs	240ft/lbs





Kit Components

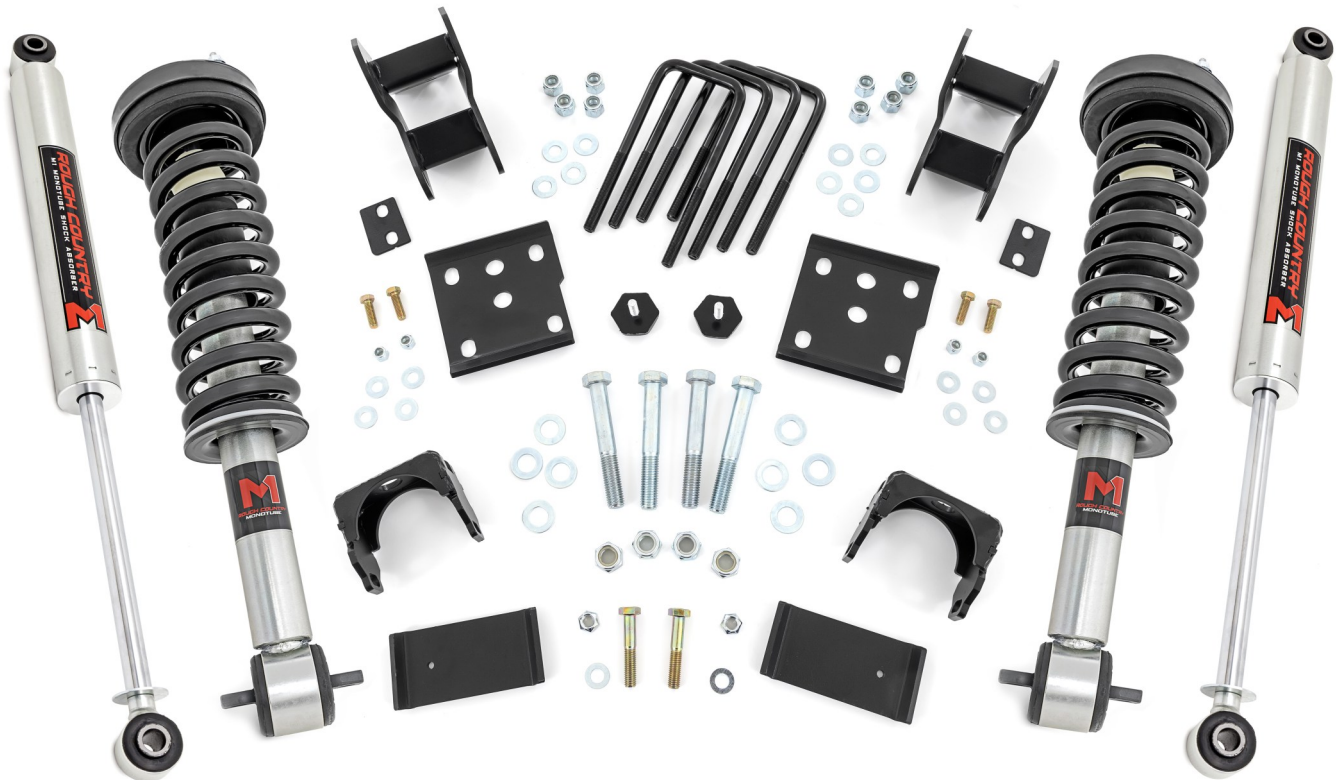
- 2- AXLE CRADLE
- 2- SPRING PLATE
- 1- DR SPRING HANGER
- 1- PASS SPRING HANGER
- 2- U-BOLT RETAINER
- 2- SPRING HANGER SHIM
- 2- BUMP STOP
- 1- UNIVERSAL U-BOLT KIT
- 1- ADJ. STRUT PAIR
- 1- MONOTUBE SHOCK PAIR

Tools Needed

- Jack and Jack Stands*
- 7/8 socket*
- sander*
- Paint marker*
- Dead blow*
- Pry tool*
- C-clamp*
- Reciprocation saw*
- 10mm socket or wrench*
- 15mm socket or wrench*
- 18mm socket or wrench*
- 19mm socket or wrench*
- 21mm socket or wrench*
- 24mm socket or wrench*

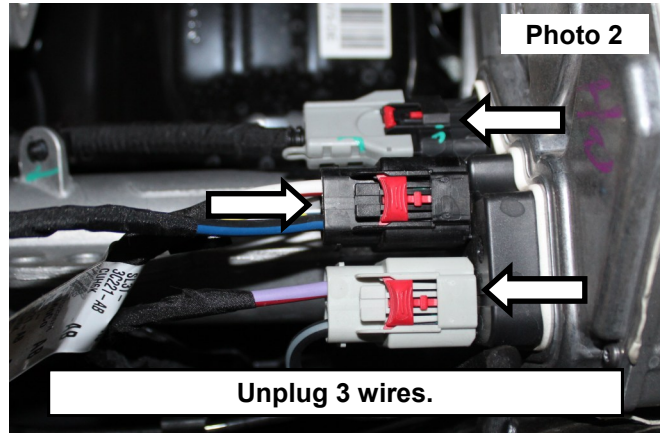
Supplied Hardware

- 4- .375-16 x 1.25 Hex bolt
- 8- .375 Flat Washer
- 4- .375-16 Nylock Nut
- 4- M18-2.5 x 120mm Hex bolt
- 8- 18mm Flat Washer
- 4- M8-2.5 Nylock Nut

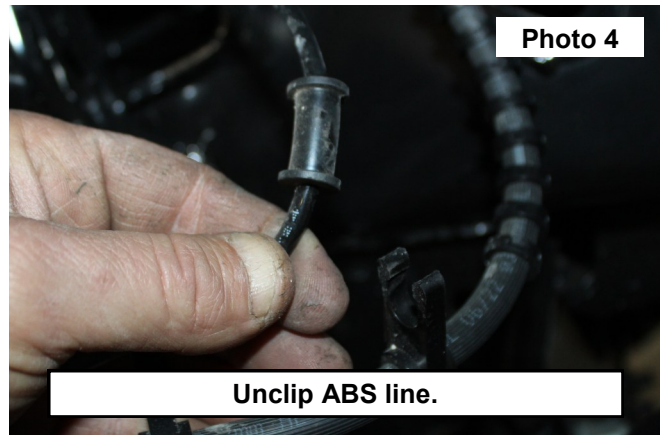
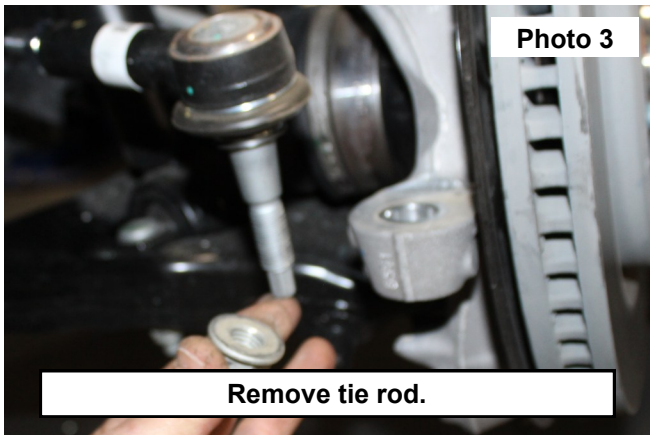


INSTALLATION INSTRUCTIONS

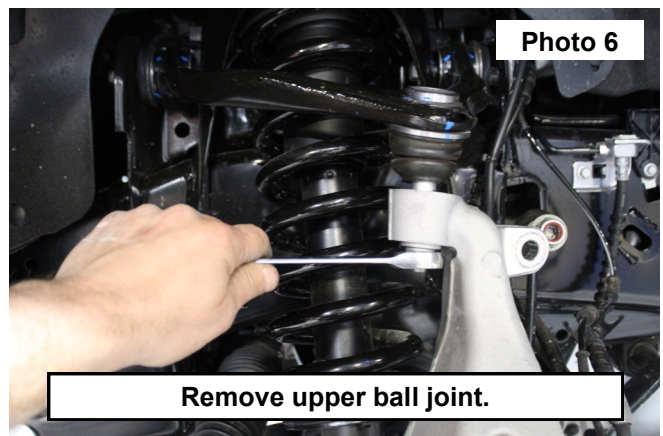
1. Raise vehicle and place on jack stands.
2. Using a 15mm, remove the protective shield for the electric steering retaining hardware. **See Photo 1.**
3. Unplug (3) steering wires. **See Photo 2.**



4. Using a 21mm socket, remove tie rod nut. Retain hardware. **See Photo 3.** **NOTE: Strike the knuckle to release the tie rod bolt.**
5. Remove the ABS line from clip. **See Photo 4.**

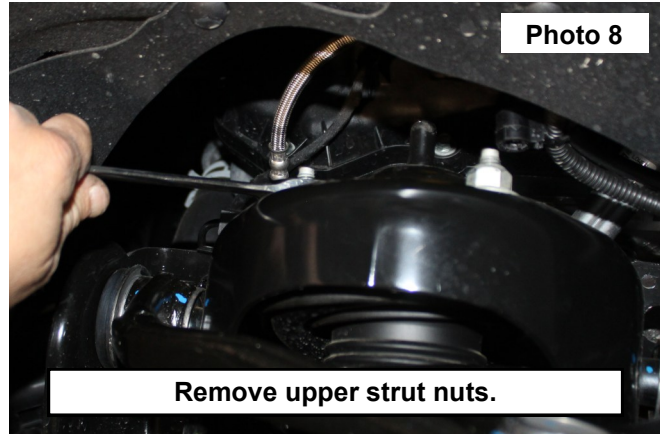
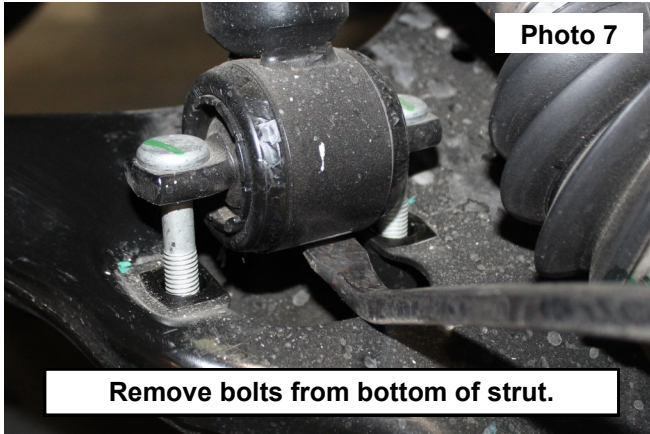


6. With the 21mm socket, remove sway bar nut. Retain hardware. **See Photo 5.**
7. Remove the upper ball joint nut using an 18mm socket. Retain hardware. **NOTE: Strike the knuckle to release the ball joint. See Photo 6.**

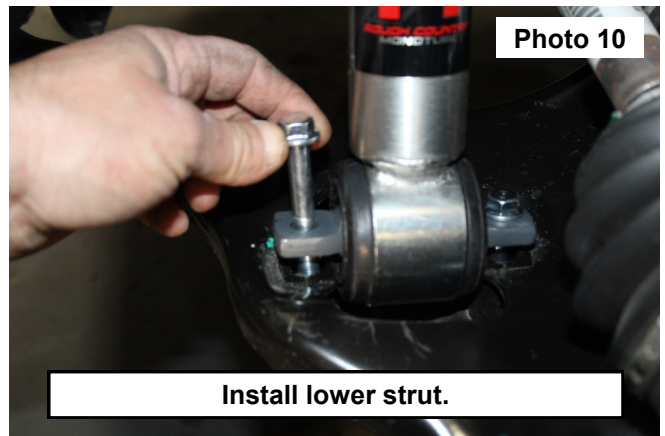
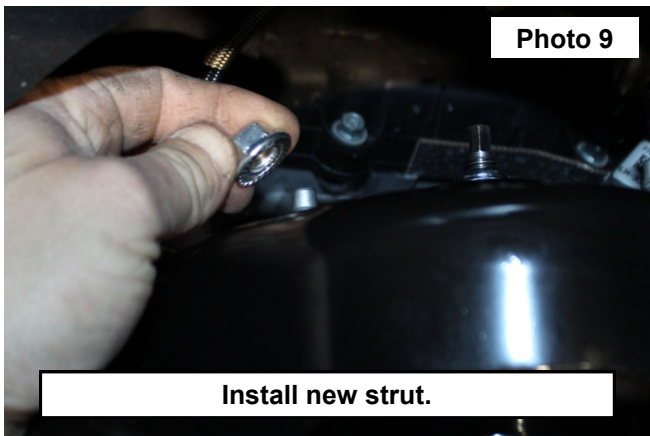


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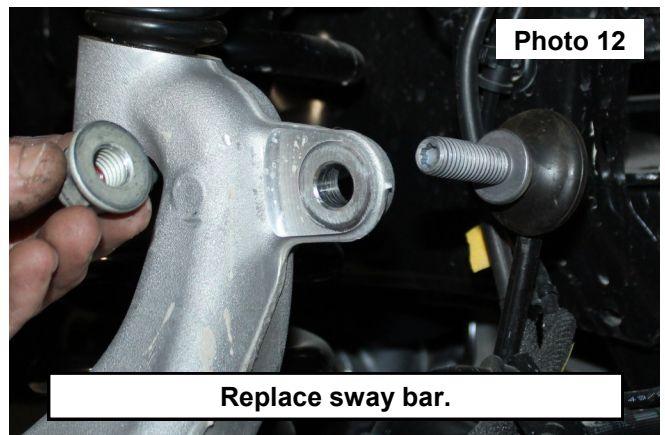
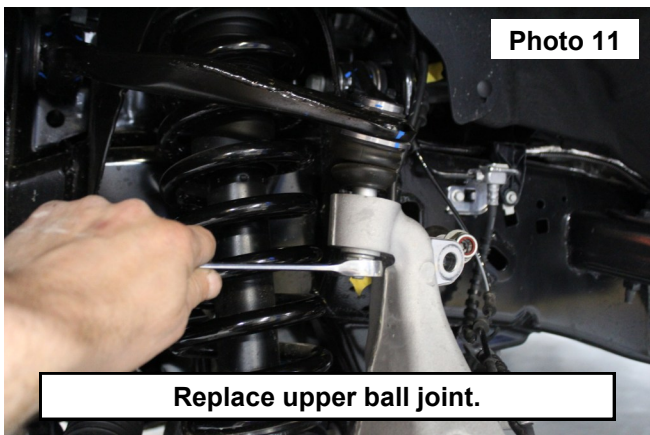
8. Using the 18mm, remove lower nuts from bottom of strut. Use pry tool to push control arm down to remove lower strut. Retain hardware. **See photo 7.**
9. Remove the upper strut nuts using 18mm and remove strut. **See Photo 8.**



10. Install the new strut using 15mm and supplied hardware. **See Photo 9.**
11. Install lower strut using retained hardware. **See Photo 10.**

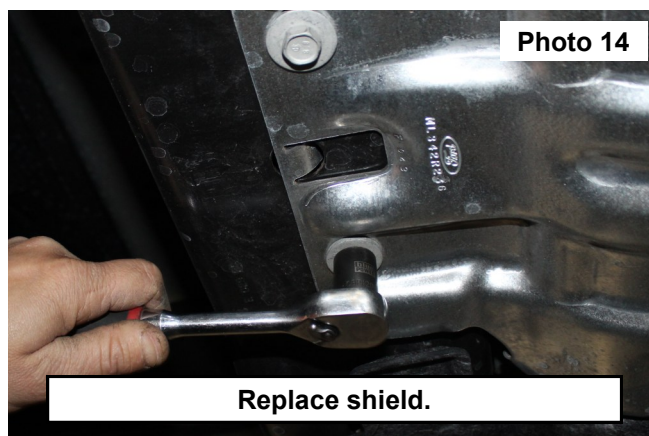
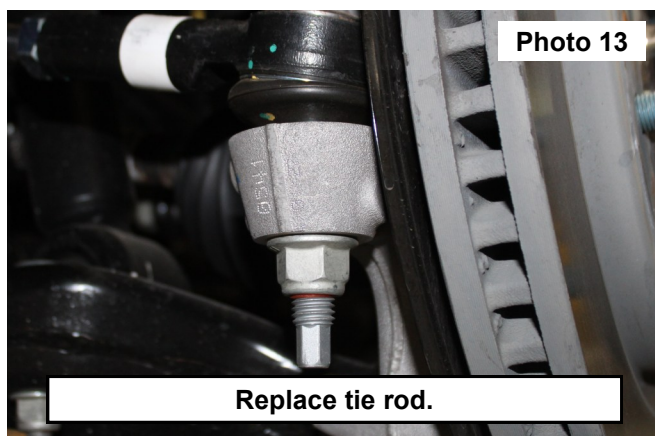


12. Replace the upper ball joint using retained hardware. **See Photo 11.**
13. Replace the sway bar with retained hardware. **See Photo 12.**



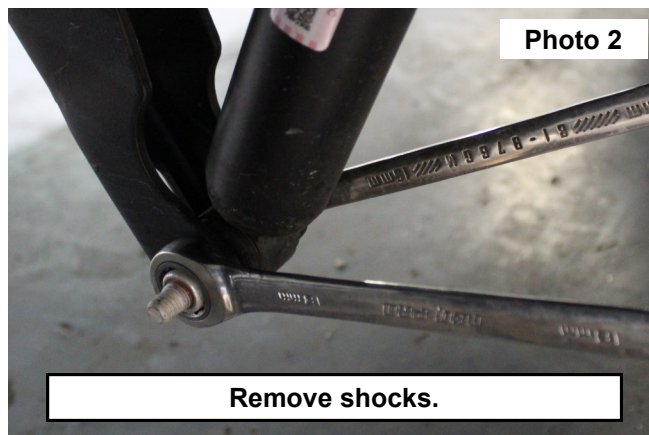
INSTALLATION INSTRUCTIONS

14. Replace the tie rod with retained hardware. **See Photo 13.**
15. Fit the ABS line back into clips, plug electric steering back up and replace the protective shield with retained hardware. **See Photo 14.**

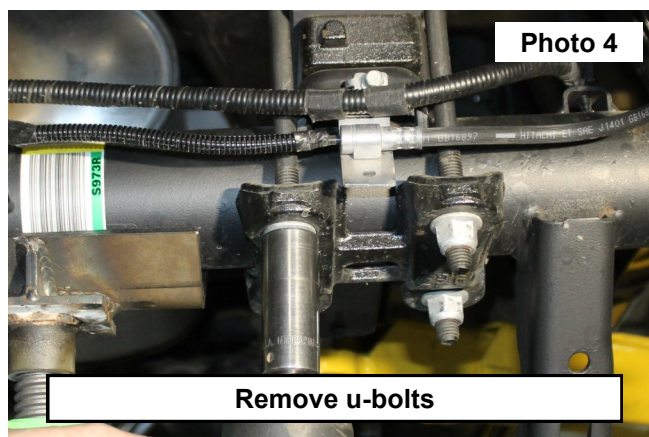


REAR INSTALLATION INSTRUCTIONS

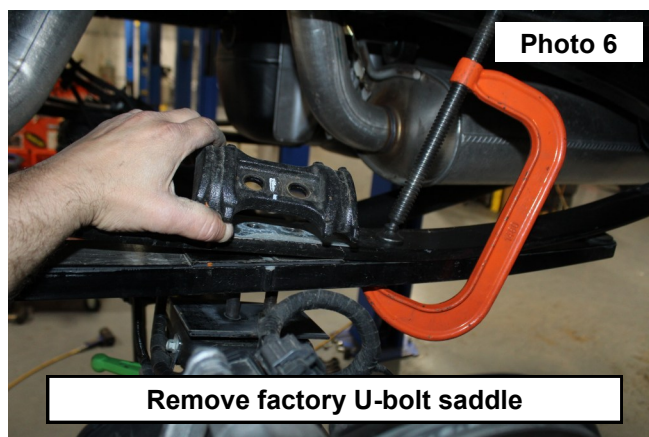
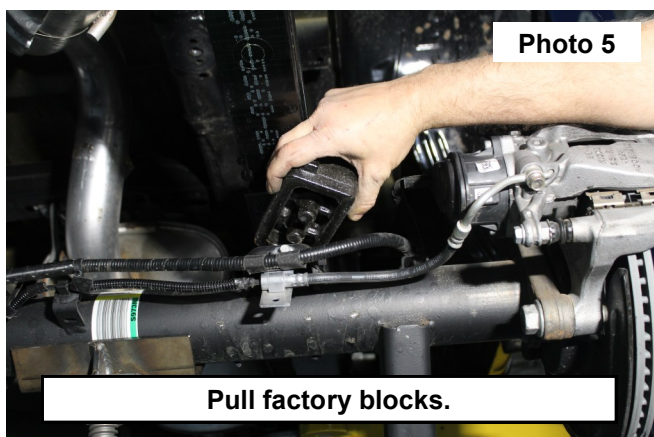
1. With vehicle raised, place jack stands under the rear axle and remove tires. **See Photo 1.**
2. Using both 15mm and 18mm wrench, remove rear shocks. Retain hardware. **See Photo 2.**



3. Remove the factory bump stop with a 15mm socket. **See Photo 3.**
4. With a 21mm socket, remove U-bolts. **See Photo 4.**

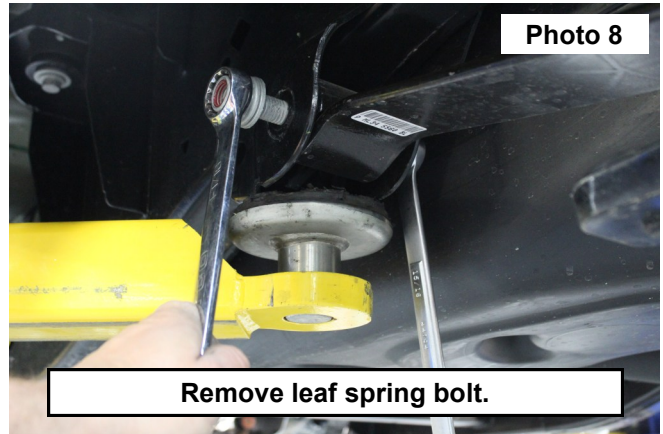
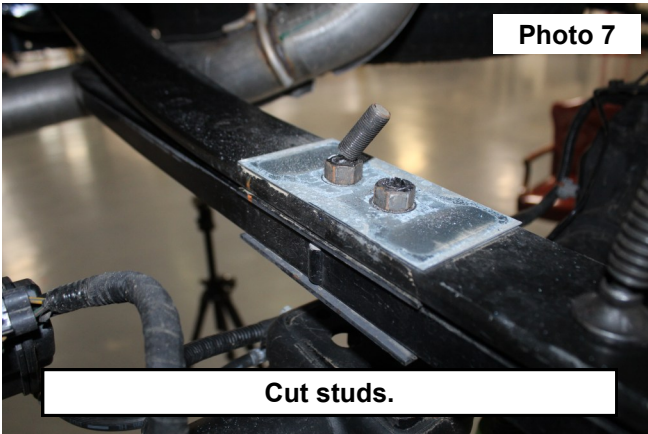


5. After U-bolts are removed, pull factory blocks. **See Photo 5.**
6. Place a C-clamp on the leaf pack, and using 18mm socket, remove the factory U-bolt saddle. **See Photo 6.**

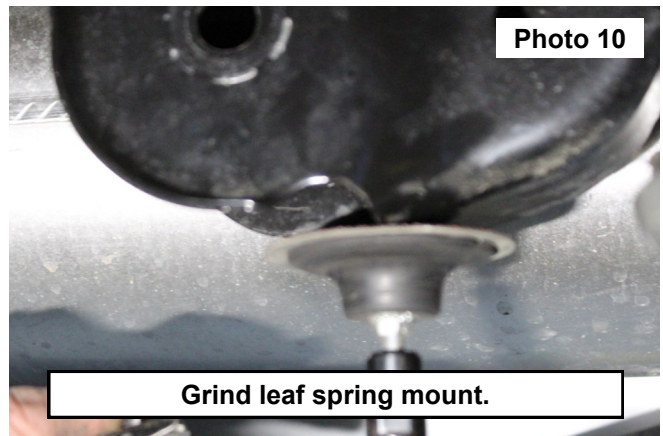
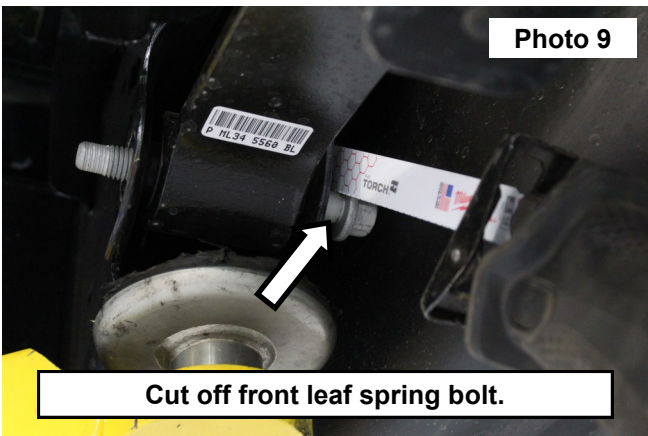


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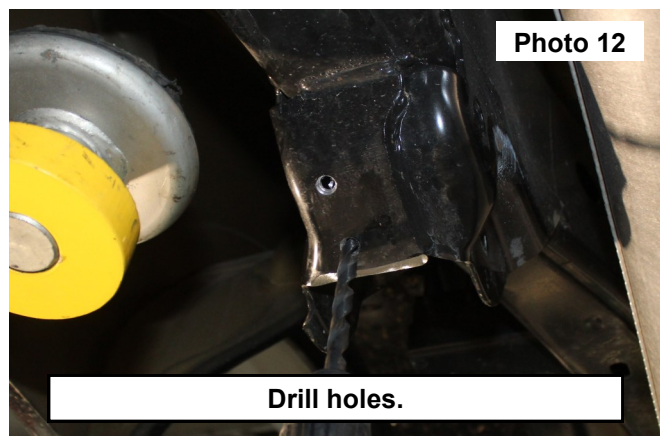
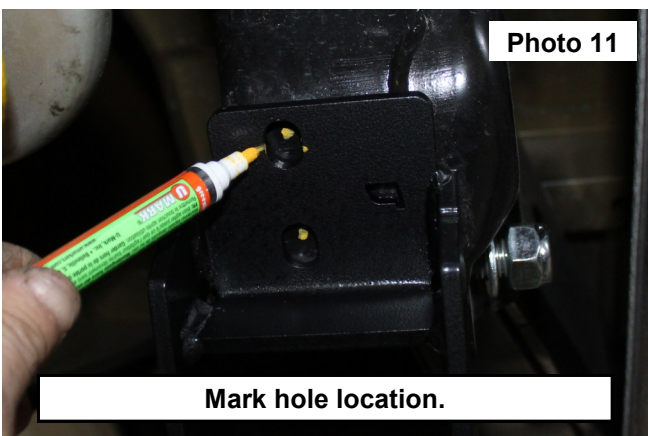
7. After saddle is removed, replace the factory nuts and using the reciprocating saw, cut off remaining studs. **See Photo 7.**
8. Using 24mm and 21mm wrench, remove the factory leaf spring bolts. **See Photo 8.**



9. Using the dead blow, tap the leaf spring bolt enough so reciprocating saw can cut off the head of the leaf spring bolts to remove the leaf springs. **See Photo 9.**
10. Using the grinder, grind bottom of leaf spring mount for proper fitment and raise axle of truck. **See Photo 10.**



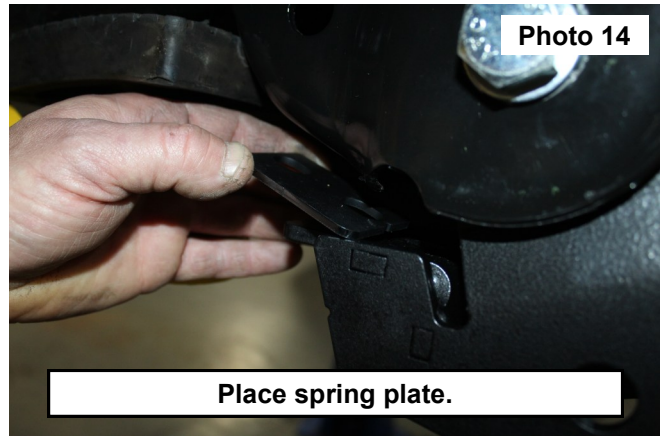
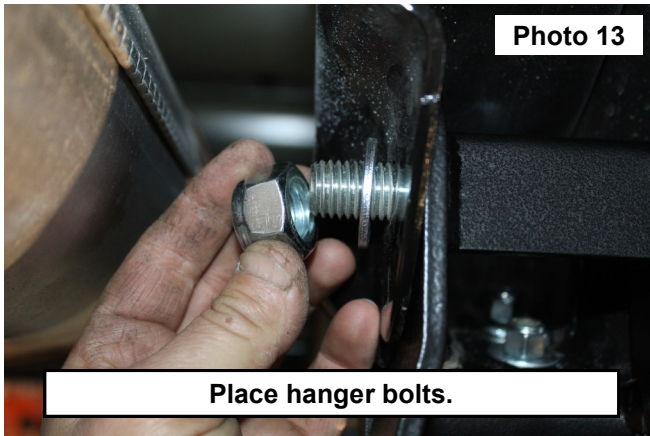
11. Install spring hanger bracket. Using paint marker, mark location for holes. **See Photo 11.**
12. Using a 7/16 bit and motor, drill marked holes for mounting. Some models may use existing E-brake holes. **See Photo 12.**



INSTALLATION INSTRUCTIONS

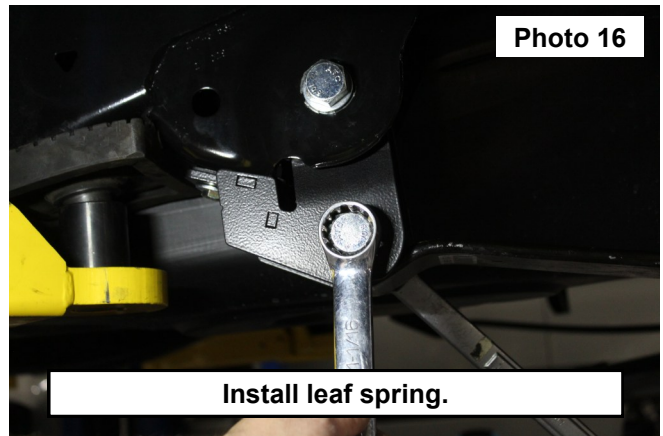
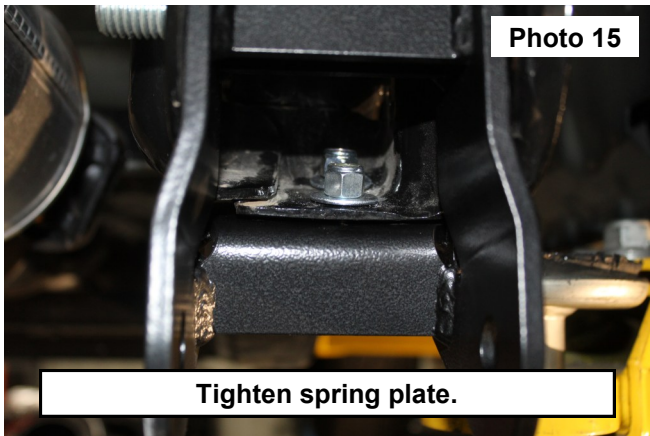
13. Place (1) of the 18mm bolts thru top hole of the hanger bracket. **See Photo 13.**

14. Place the spring plate on hanger. **See Photo 14.**



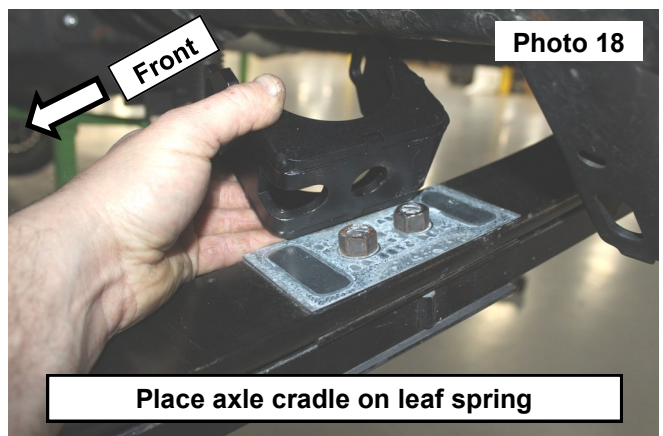
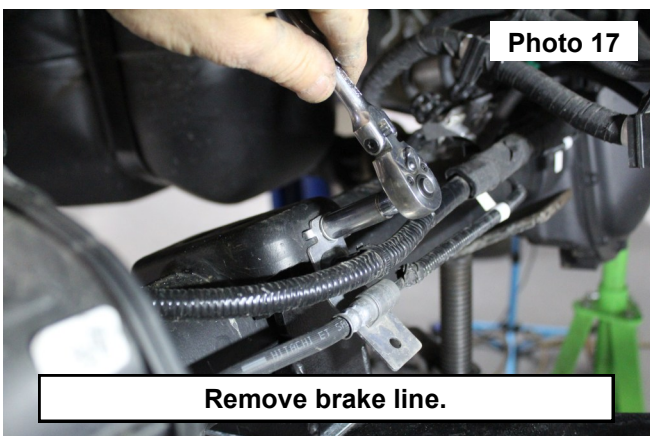
15. Install the 3/8 bolts and tighten spring plate. **See Photo 15.** **Note: Remove rear leaf spring bolt to remove spring. Then raise axle and re-install spring.**

16. Install leaf springs using the 24mm and 21mm wrench in the rear, and the supplied 18mm bolts in front. **NOTE: Do not tighten until truck is on the ground.** **See Photo 16.**



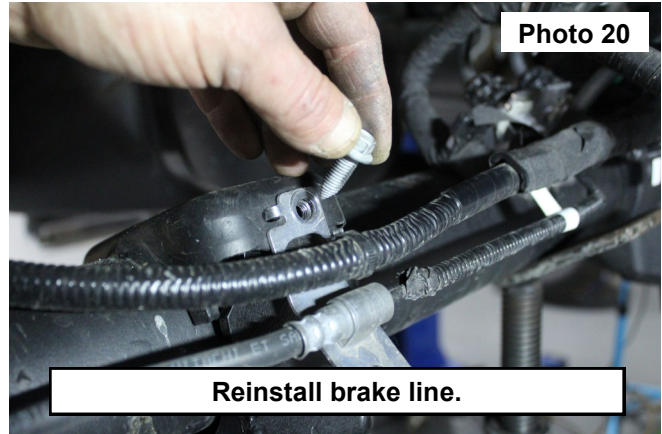
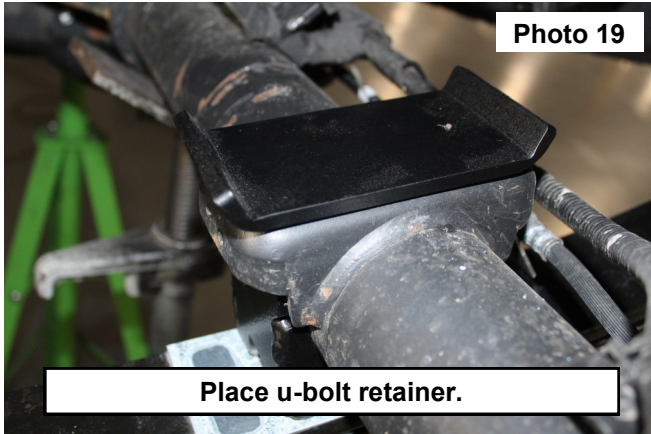
17. Using 10mm, remove brake line. **See Photo 17.**

18. Place the axle cradle on the leaf spring. The round hole in the cradle will go over the rear spring pin and the slot will go over the front pin, on each side of the vehicle. **See Photo 18.**

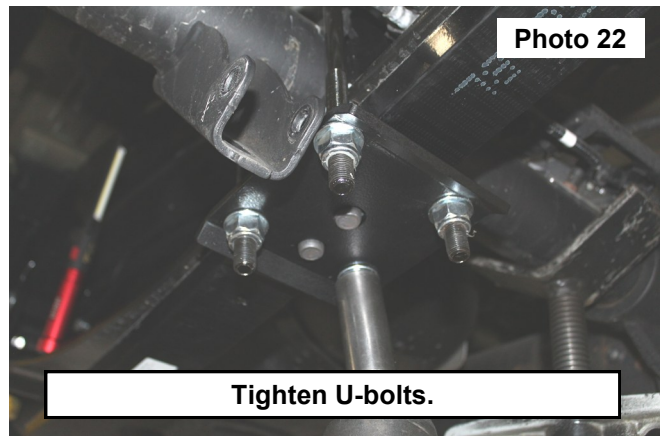
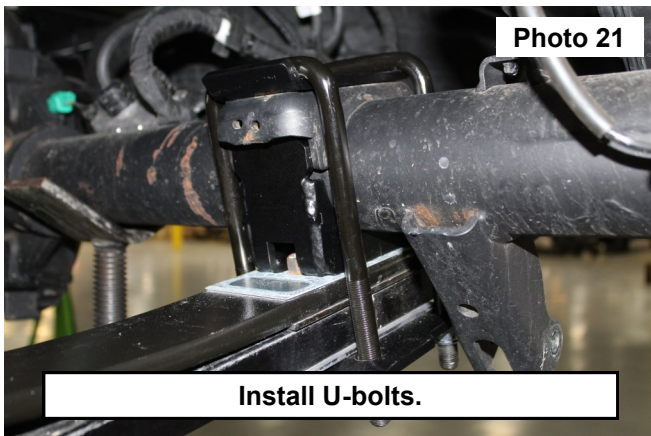


INSTALLATION INSTRUCTIONS

19. Lower the axle into the cradles.
20. Place the u-bolt retainer on the axle pad as shown in **Photo 19**.
21. Reinstall the brake line using 10mm. **See Phot 20**.



22. Install supplied U-bolts. **See Photo 21**.
23. Using a 7/8 socket, tighten the U-bolts. **See Photo 22**.



24. Install new shocks using 19mm socket. **See Photo 23**.
25. After shocks and U-bolts are installed, lower vehicle and tighten all leaf spring bolts.



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