Rough Country 30004 Installation Instructions

30004

Part number: 30004

trailfortress.com/rough-country-transfer-case-clocking-ring-box-kit-30004

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

921300040

Ram 2500 10 BOLT CLOCKING RING

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.
Check and retighten wheels at 50 miles and again at 500 miles. Periodically check all hardware for tightness.

KIT CONTENTS:

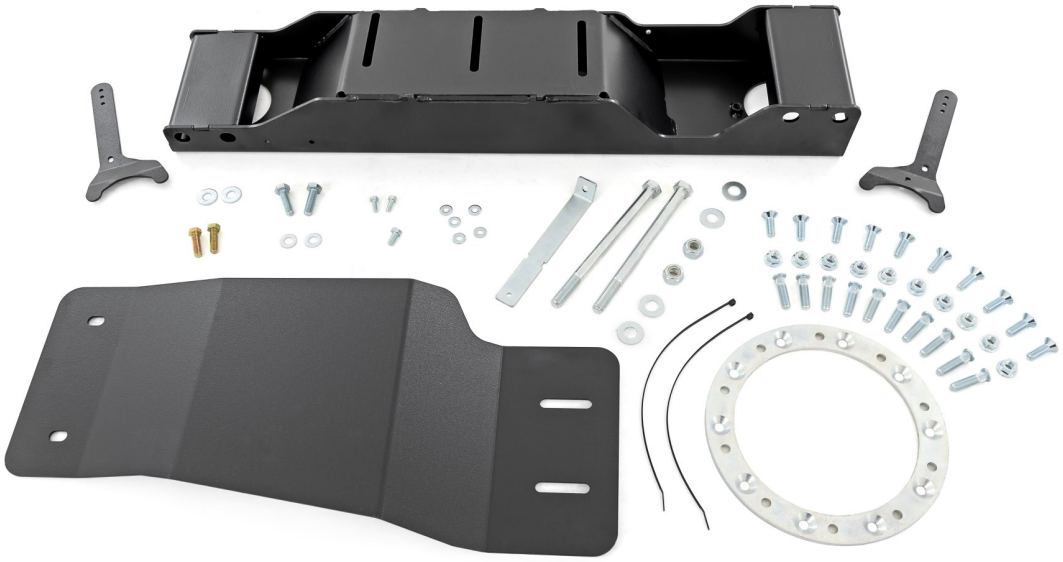
10 Hole Clocking Ring
1x 30004BAG1

TOOLS NEEDED

Pry tool
Snap Ring Pliers
Jack stands
10mm Socket or Wrench
13mm Socket or Wrench
22mm Socket or Wrench
24mm Socket or Wrench
6mm Allen Wrench
T-30
Torque Wrench

HARDWARE INCLUDED:

10x 10mm Clocking Stud
10x 10mm x 30mm Flat Head Bolt
10x 10mm Flange Nut

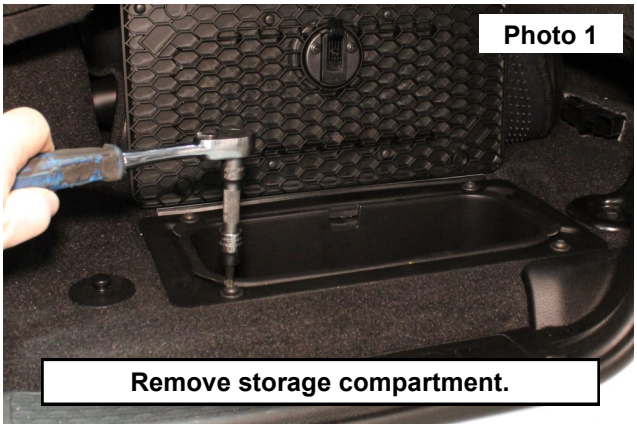


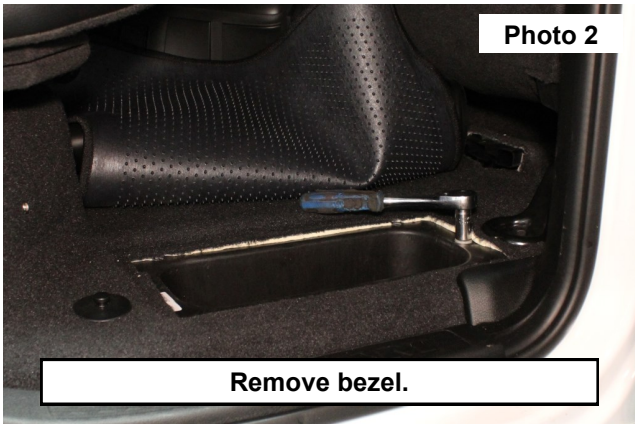
Torque Specs:

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

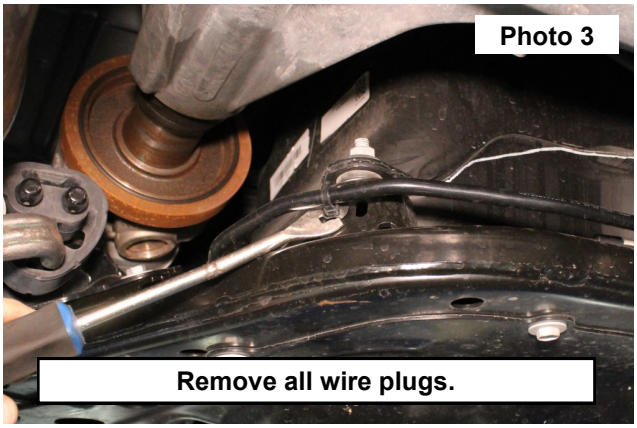
INSTALLATION INSTRUCTONS

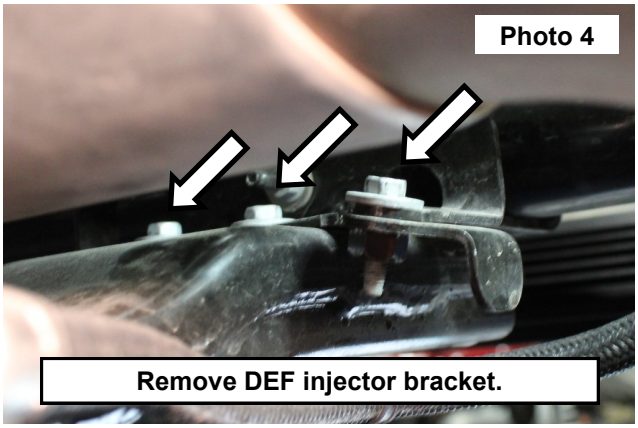
1. On PASS side rear floor in the cab, remove the four bolts holding the storage compartment using a T-30. With a 13mm socket, remove bolt holding the bezel. **See Photo 1 and Photo 2.**



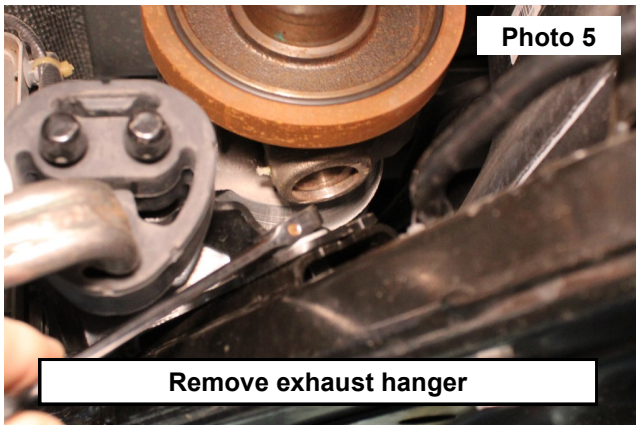


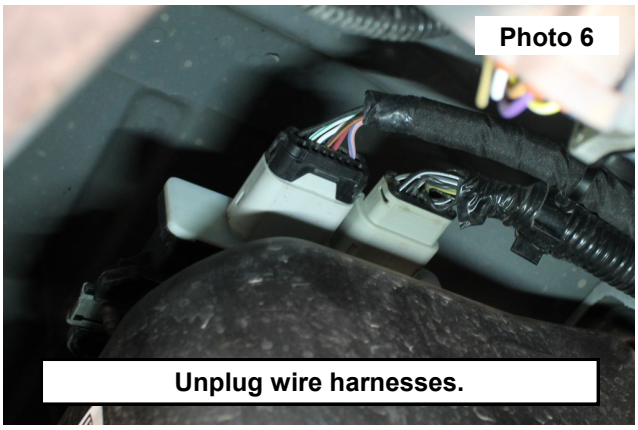
2. Using small pry tool, remove all wire clips holding DEF line to DEF tank crossmember (front and rear) **See Photo 3.**
3. Remove DEF injector bracket using a 10mm socket. Retaining all hardware. **See Photo 4.**



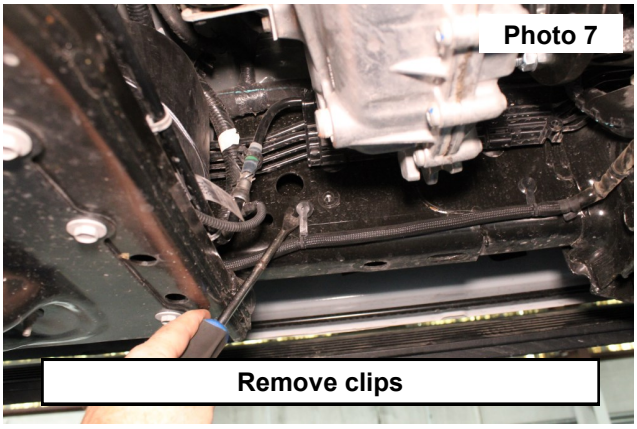


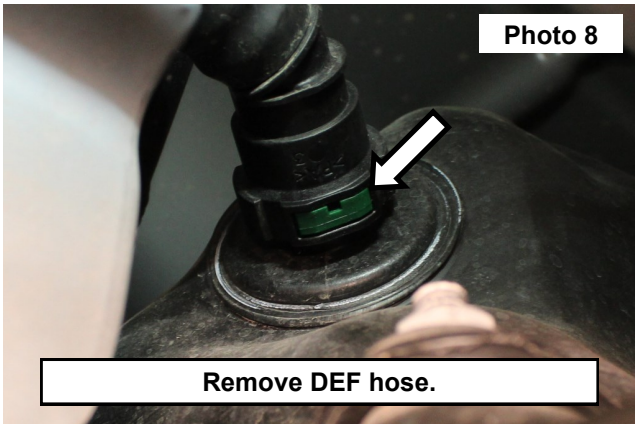
4. Remove exhaust hanger bracket using a 13mm socket. **See Photo 5.**
5. Unplug wire harnesses on top of DEF Tank. **See Photo 6.**



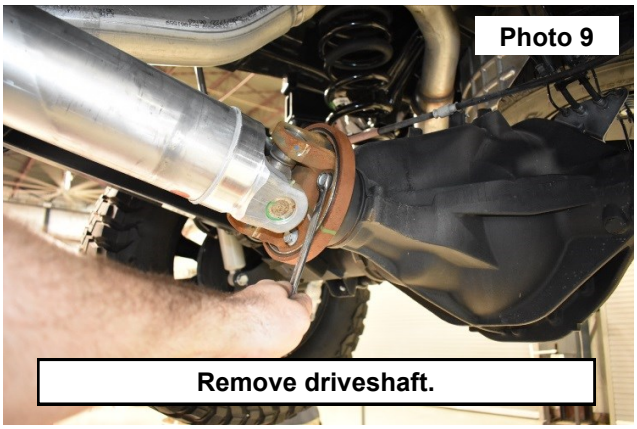


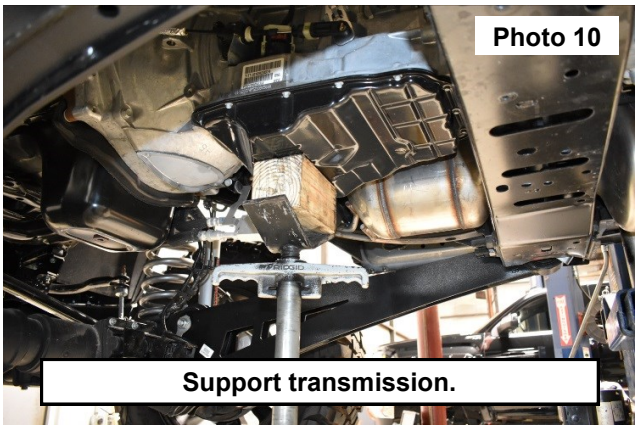
6. Using small pry tool, remove clips holding DEF hose to frame. **See Photo 7.**
7. Disconnect DEF hose on top of tank by pressing the green tabs. **See Photo 8.**





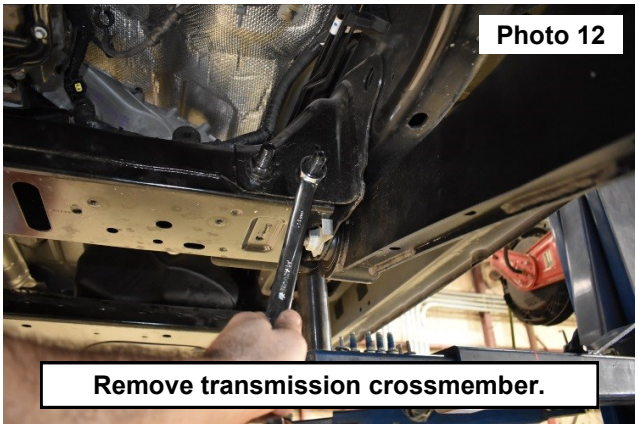
8. Using a 15mm wrench, remove the rear driveshaft from the rear pinion flange. Retain hardware. **See Photo 9.**
9. Using a jack stand, support the transmission. **See Photo 10.**



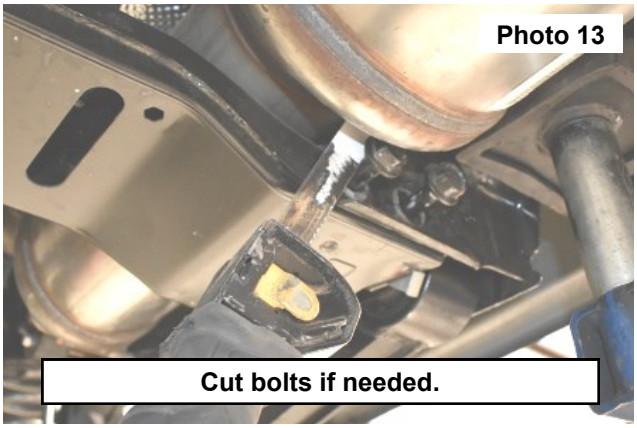


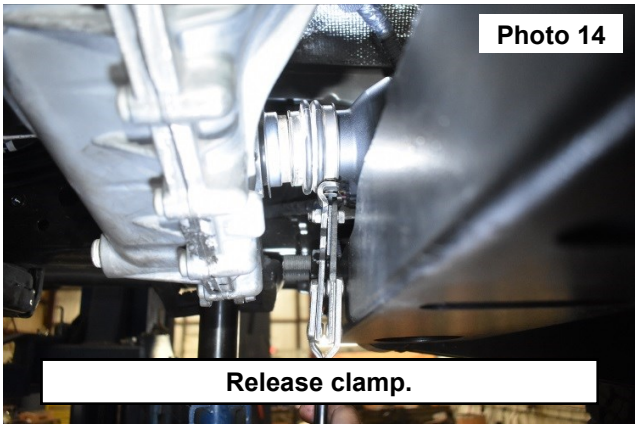
10. With a 22mm socket, remove DEF tank crossmember, retaining hardware. Drop DEF tank and support with jack stand. Tank will still be connected by hoses. **See Photo 11.**
11. Using 24mm socket, remove transmission crossmember. **See Photo 12.**



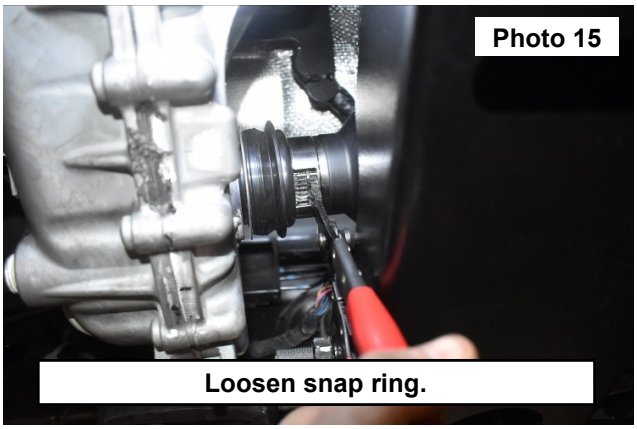


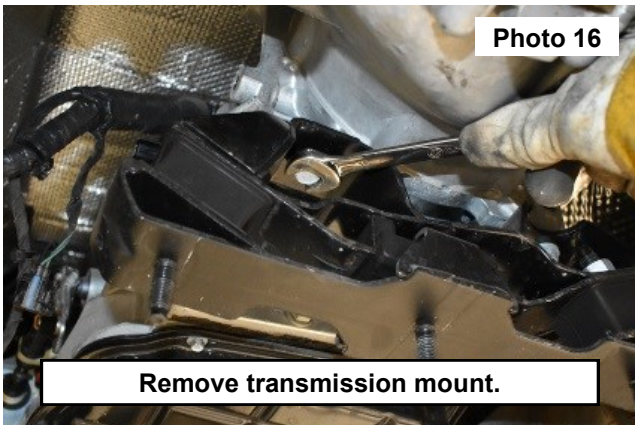
12. On the PASS side, some models may require the crossmember bolt to be cut off due to exhaust. If so, using a reciprocating saw cut-off crossmember bolts. **See Photo 13.**
13. Using a pair of pliers, release front clamp on the front driveshaft dust boot, at the transfer case. **See Photo 14.**



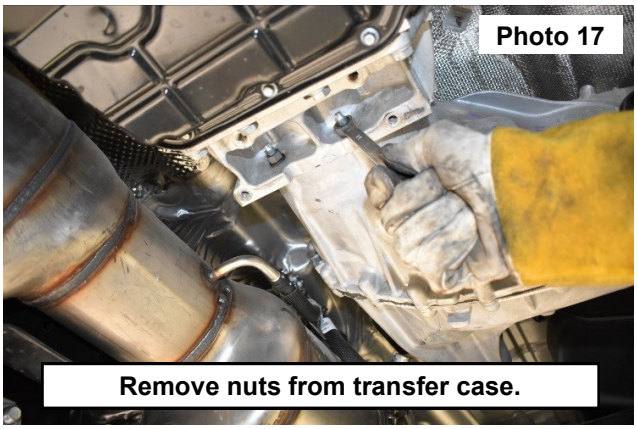


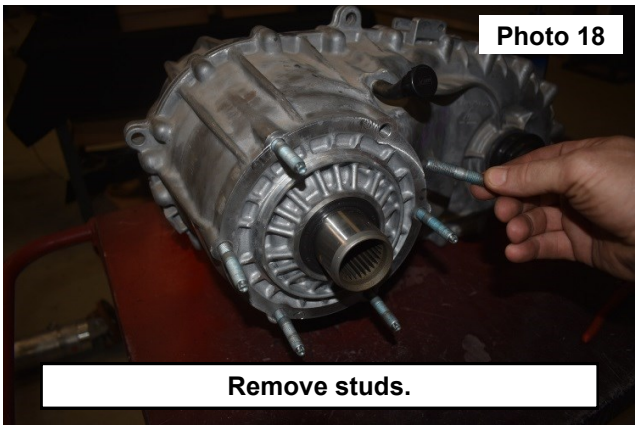
14. Roll dust boot towards transfer case.
15. Using snap ring pliers, spread the snap ring and slide the driveshaft towards the front of the truck. **See Photo 15.**
16. Place stand under transmission and using a 15mm wrench, remove the (2) front bolts from the transfer case crossmember mount. Retain hardware. **See Photo 16.**



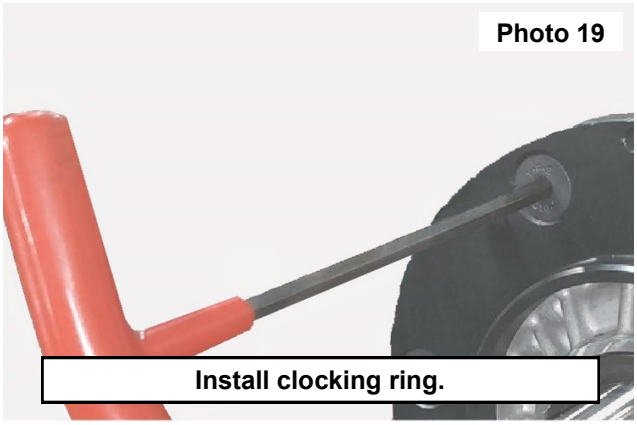


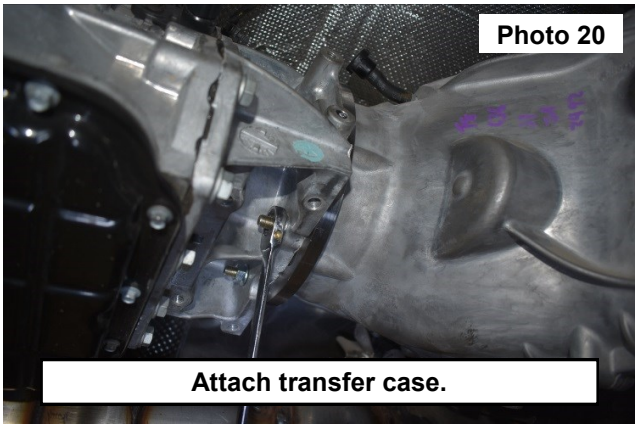
17. Using a 15mm wrench and 15mm socket, remove the nuts from the transfer case mounting studs. Retain for reuse. **See Photo 17.**
18. Carefully remove the transfer case from the truck.
19. Using an E9 torx, remove the (10) transfer case studs from the transfer case. **See Photo 18.**



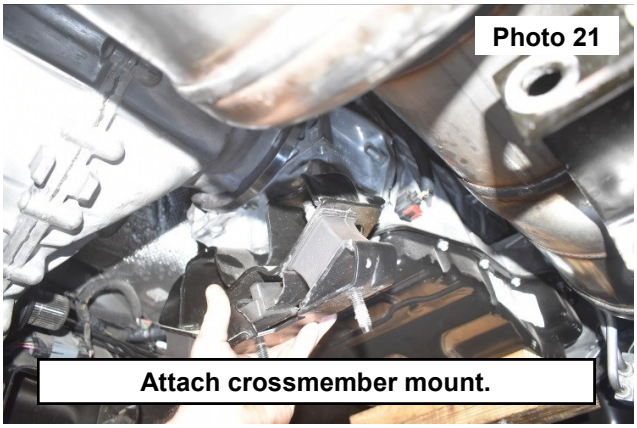


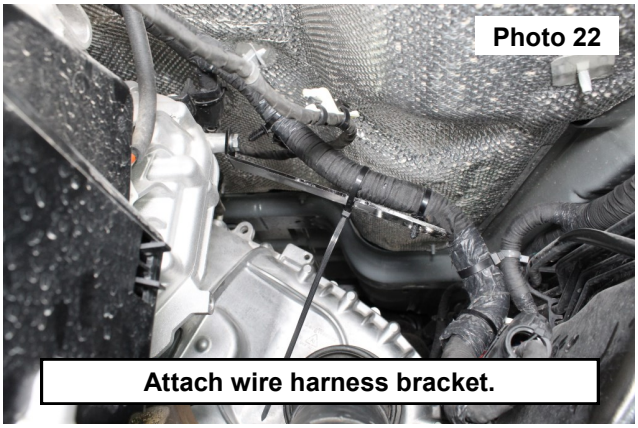
20. Press (10) clocking ring studs into clocking ring prior to installation. Install the supplied clocking ring on the transfer case using the (10) supplied 10mm x 30mm flat head bolts. Apply a thread locker to the bolts and torque to 45ft/lbs using a 6mm Allen. **See Photo 19.**
21. Install the transfer case using the (10) supplied 10mm flange nuts. Tighten using a 15mm wrench. **See Photo 20.**



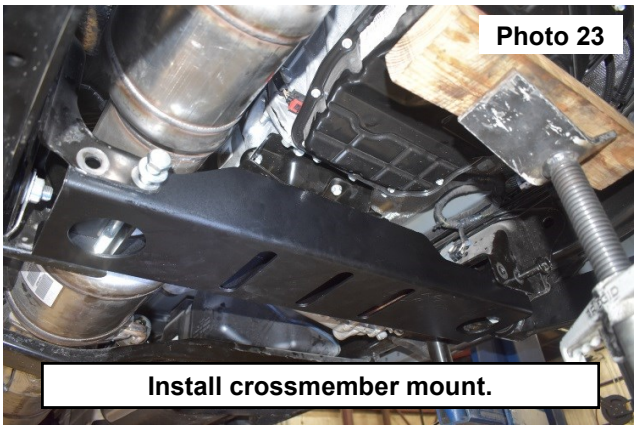


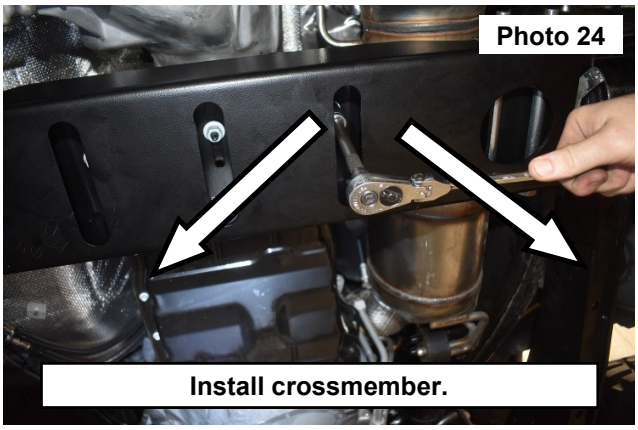
22. Install the transfer case crossmember mount using the factory hardware. Torque to 45ft/lbs using a 15mm socket. **See Photo 21.**
23. Install the wire harness bracket using a 13mm wrench and attach wires using zip ties. **See Photo 22.**



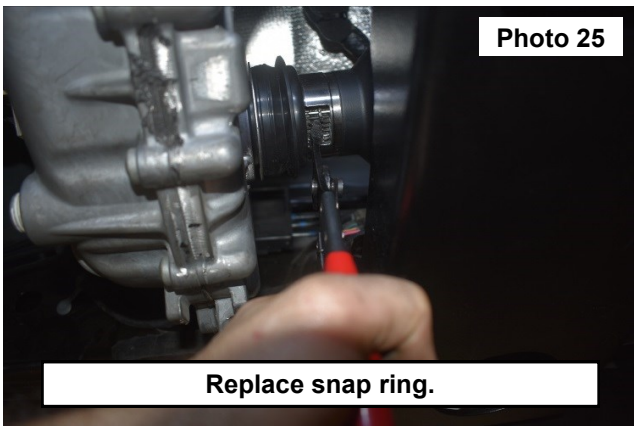


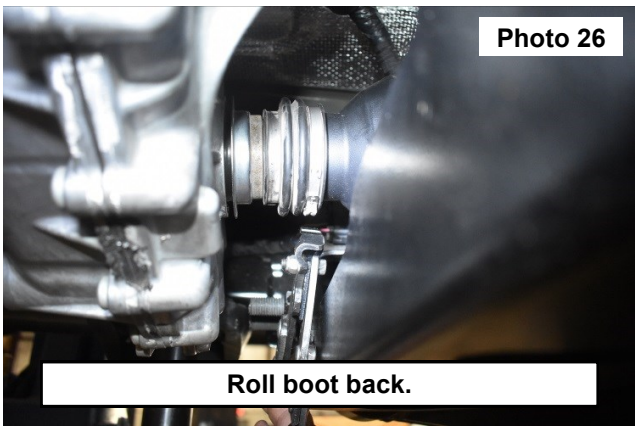
24. Install the supplied transfer case crossmember using the supplied 14mm x 200mm bolts, washers, and nylock nuts on the passenger side and the factory hardware on the driver side. **See Photo 23.**
25. Attach the crossmember to the crossmember mount using the factory hardware. Torque to 45ft/lbs using a 15mm socket. **See Photo 24.**



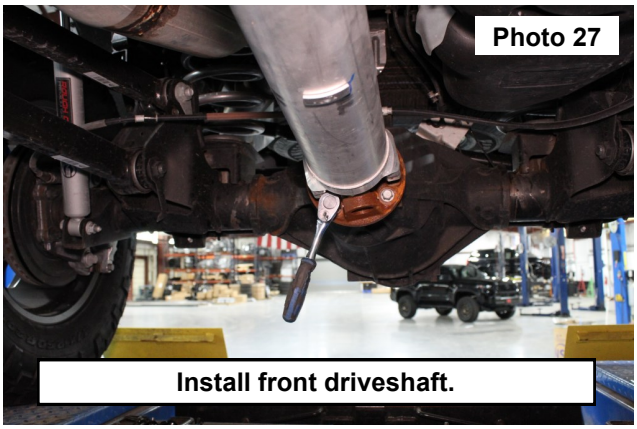


26. Install driveshaft back on the transfer case.
27. Using snap ring pliers, slide the snap ring to the rear locking it into position. **See Photo 25.**
28. Roll boot away from transfer case. **See Photo 26.**

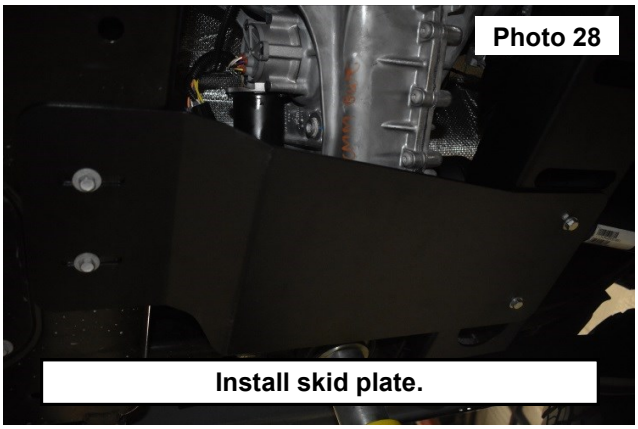




29. Install the front driveshaft using the factory hardware. Torque the rear pinion flange bolts to 45ft/lbs using a 15mm socket. **See Photo 27.**
30. Install the supplied transfer case skid plate using the supplied 3/8" x 1.25" bolts and washers to the crossmember and the factory hardware to secure the skid plate to the fuel tank skid plate. Torque the factory hardware to 9ft/lbs



using a



10mm socket. Torque the 3/8" hardware to 35ft/lbs using a 9/16" socket. **See Photo 28.**

POST INSTALLATION INSTRUCTIONS

Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering gear for interference and proper working order. Failure to perform inspections may result in component failure.
Re-torque all fasteners after 500 miles. Visually inspect components and re-torque fasteners during routine vehicle service.

By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable, State, and Local laws and regulations regarding the purchase, ownership, and use of the item. It shall be the buyers responsibility to comply with all Federal, State and Local laws governing the sales of any items listed, illustrated or sold. The buyer expressly agrees to indemnify and hold harmless Rough Country, LLC for all claims resulting directly or indirectly from the purchase, ownership, or use of the items.