Rough Country RC702 Installation Instructions

3-Inch Body Lift Kit for 2007–2013 Silverado 1500 & Sierra 1500

Part number: RC702

trailfortress.com/3-inch-body-lift-kit-silverado-1500-sierra-1500-rough-country-rc702

Scan for fitment, price and install help

921RC7020

ROUGH COUNTRY SUSPENSION SYSTEMS®

RC702BAG2

GM 07-13 4WD 1500 P/U 3” Body Lift

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

Rough Country recommends a certified technician install this kit. Attempts to install this kit 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 against the kit contents list page. Be sure you have all needed parts and know where they go. Review tools needed list and make sure you have the tools needed to install the kit.

PRODUCT USE INFORMATION

We will not be responsible for any product that is altered. We will be happy to answer any questions concerning the design, function, and use of our products by calling 800-222-7023.

Kit was designed for use with both standard cab and 4 door models. Standard cabs will not utilize all cab mount spacers.

This body lift was developed using a 33x12.5x20 tire with factory wheels. Combo kits are available. Ask your Rough Country Dealer for more info.

NOTICE **Rear bumper cannot be used for towing after installation of the rear bumper relocation brackets.**

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 of the vehicles unique handling characteristics. These instructions should be kept in the vehicle for its service life.

Tools Needed:

Jack	**7mmSocket**
Jack Stands	**10mm Socket / Wrench**
Wood Blocks	**11mm Socket / Wrench**
Pliers	**13mm Socket / Wrench**
Hammer	**15mm Socket / Wrench**
Flat Screwdriver	**17mm Socket / Wrench**
Drill Motor	**18mm Socket / Wrench**
3/8” Drill	**19mm Socket / Wrench**
17/32” Drill	**21mm Socket / Wrench**
Reciprocating Saw	**22mm Socket / Wrench**
Clamps	**1/2” Socket / Wrench**
Tape Measure	**5/16” Allen**
Torque Wrench	**7/16” Socket / Wrench**
Hand Grinder/ File	**5/8” Socket / Wrench**
Black Paint	**3/4” Socket / Wrench**
Welder– Manual TC	

Torque Specs:

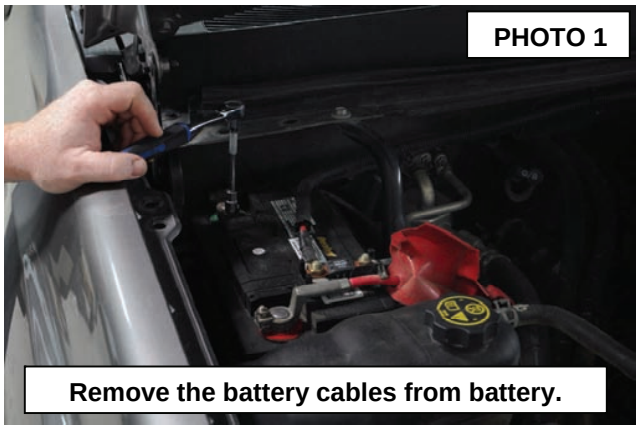
Size	Grade 5	Grade 8
5/16”	15 ft/lbs	20 ft/lbs
3/8”	30 ft/lbs	35 ft/lbs
7/16”	45 ft/lbs	60 ft/lbs
1/2”	65 ft/lbs	90 ft/lbs
9/16”	95 ft/lbs	130 ft/lbs
5/8”	135 ft/lbs	175 ft/lbs
3/4”	185 ft/lbs	280 ft/lbs

	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

trailfortress.com/3-inch-body-lift-kit-silverado-1500-sierra-1500-rough-country-rc702

CAB INSTALLATION INSTRUCTIONS

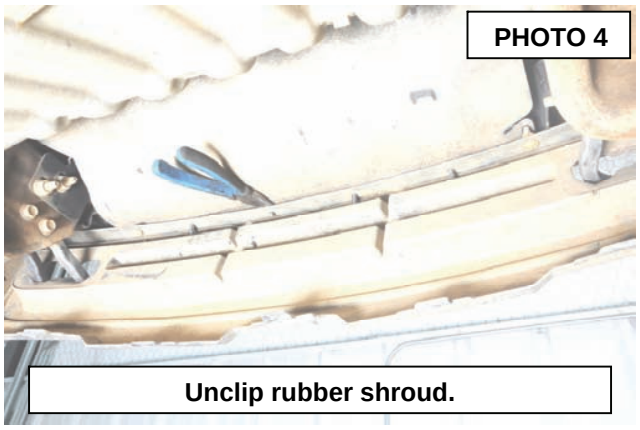
1. **Raise hood disconnect positive and negative battery cable from the battery using 10mm wrench, also remove the airbag fuse from the fuse panel**. This is done to prevent accidental airbag deployment. Check owners manual and remove airbag fuses to prevent accidental air bag deployment. **See Photo 1.**
2. Remove the eight plastic clips from the radiator cover using a screwdriver and remove cover. Retain hardware for reuse. **See Photo 2.**

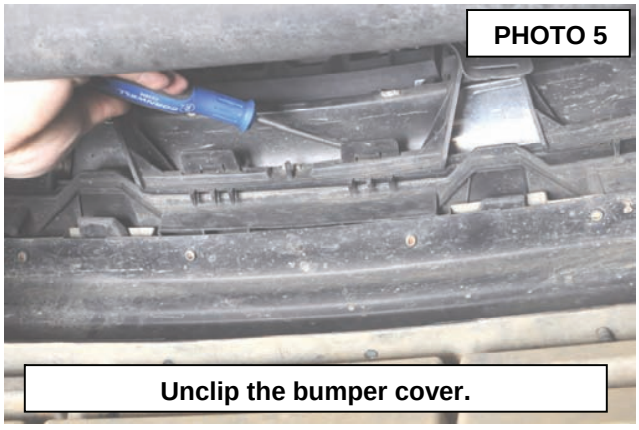




3. **GMC models**. Using a 7mm socket, remove the bolts in the front fenders for the bumper cover. Retain hardware for reuse. **See Photo 3.**
4. Remove four of the clips from the rubber shroud that is attach to the bumper. There are 9 clips total but only 4 need to be removed to remove bumper. Retain hardware for reuse. **See Photos 4, 5, & 6.**



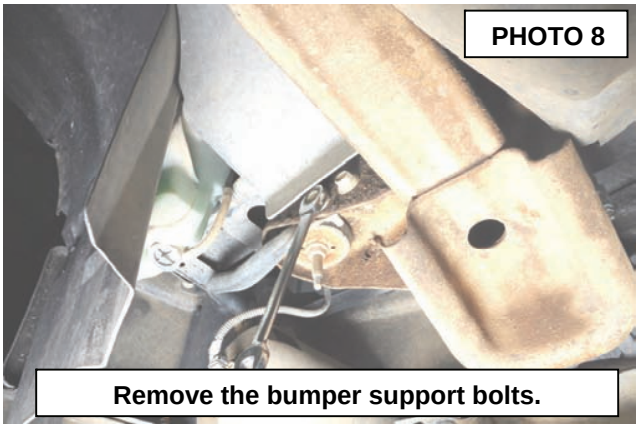




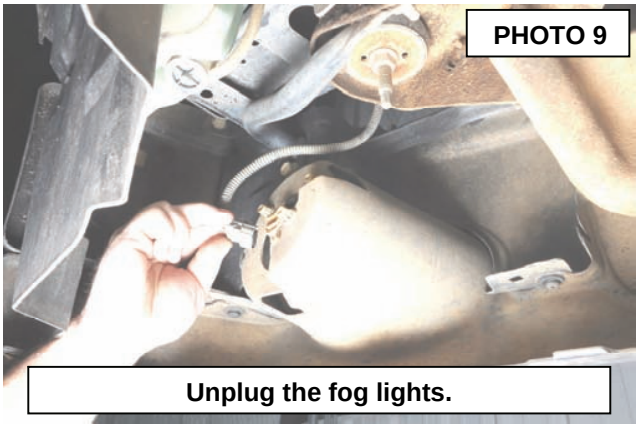


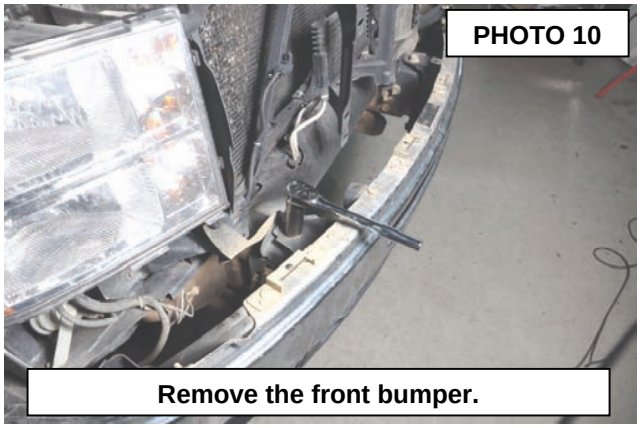
5. Using a 10mm socket, remove the grille mounting bolts and remove the grille. Retain hardware for reuse. **See Photo 7.**
6. Using a 15mm wrench, remove the bumper support bolts. Retain hardware for reuse. **See Photo 8.**





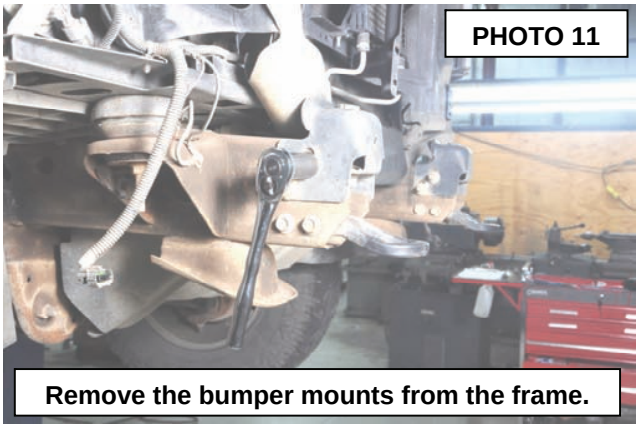
7. Unplug the fog lights if equipped. **See Photo 9.**
8. Using a 21mm socket, remove the bumper to frame horn bolts and remove the bumper. Retain hardware for reuse.

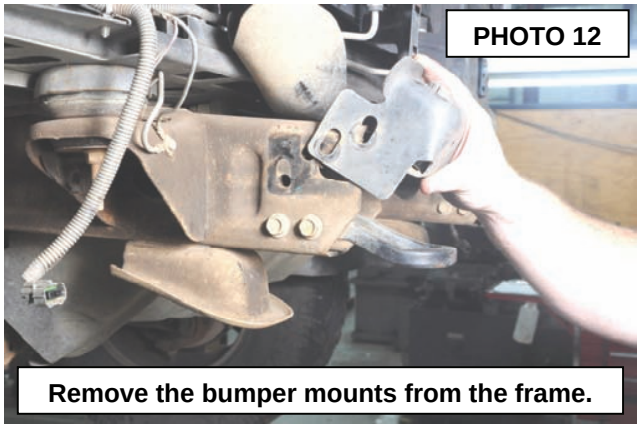




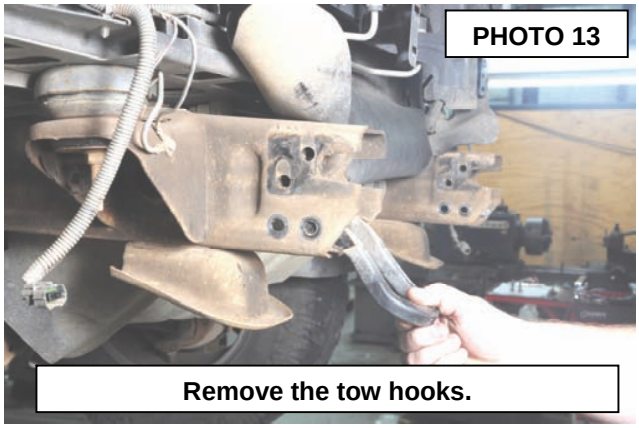
See Photo 10.

9. Using a 21mm socket, remove the bumper mounts from the frame. Retain hardware for reuse. **See Photos 11 & 12.**





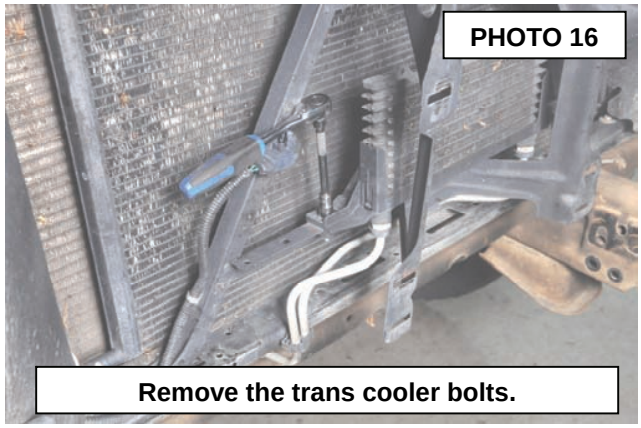
10. Using a 19mm socket, remove the tow hooks. Retain hardware for reuse. **See Photo 13.**
11. Using pliers, remove the splash guard. **See Photo 14.**



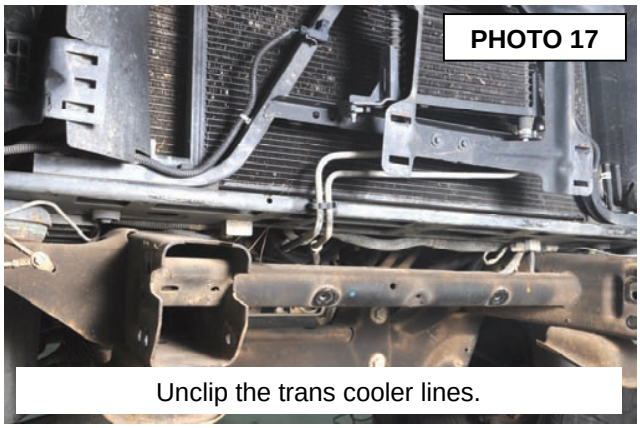


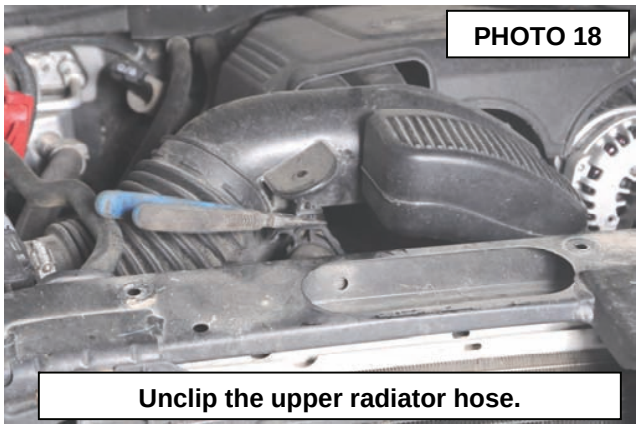
12. Using a 15mm socket, remove the front skip plate. Retain hardware for reuse. **See Photo 15.**
13. Using a 10mm socket remove the transmission cooler line bolts. Retain hardware for reuse. **See Photo 16.**





14. Remove the transmission cooler lines from the clips. **See Photo 17.**
15. Using pliers, remove the upper radiator hose clip. **See Photo 18.**



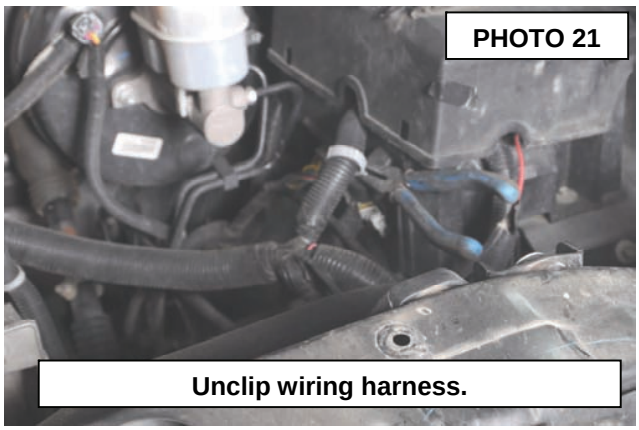


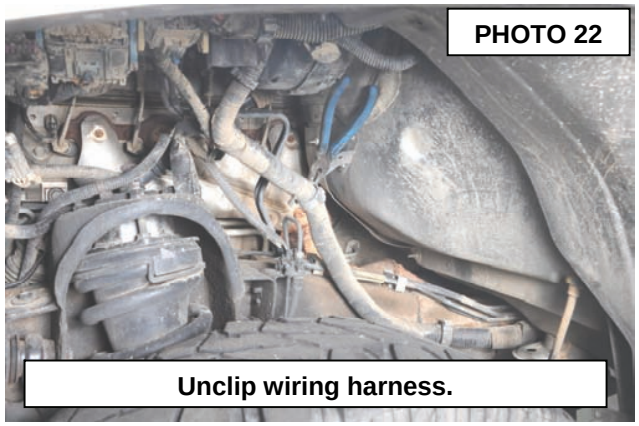
16. Using a screwdriver, loosen the air intake tube. **See Photo 19.**
17. Using a 10mm socket, remove the ground strap from the firewall. Retain hardware for reuse. **See Photo 20**.



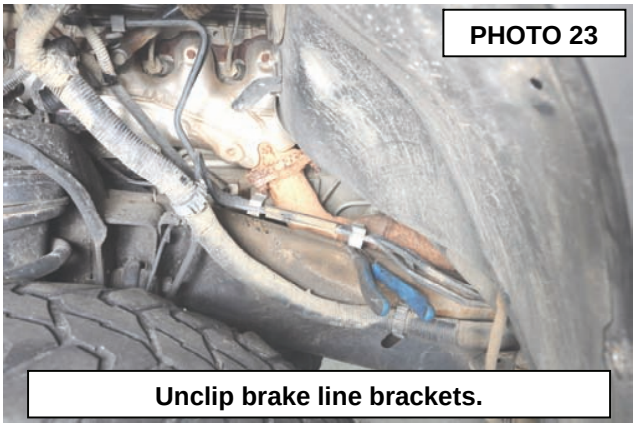


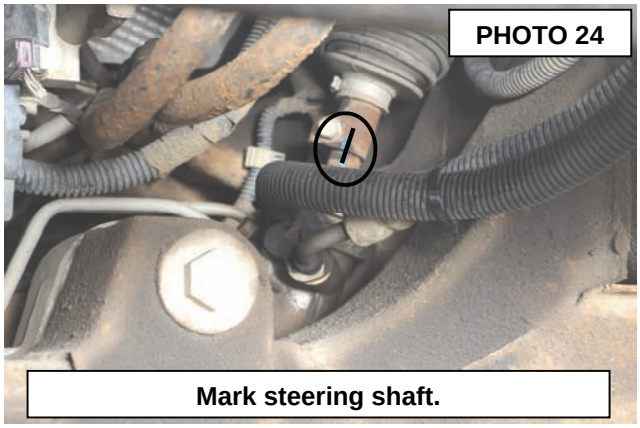
18. Using pliers, unclip the wiring harness at the fuse box. **See Photo 21.**
19. Using pliers, unclip the wiring harness at the firewall under the brake booster. *This step can be performed without removing the inner fender.* **See Photo 22.**



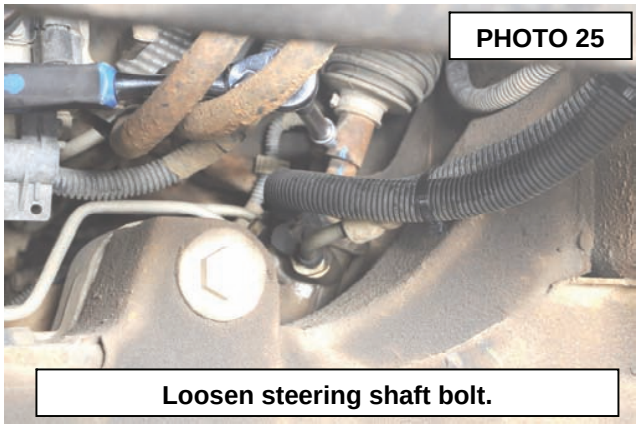


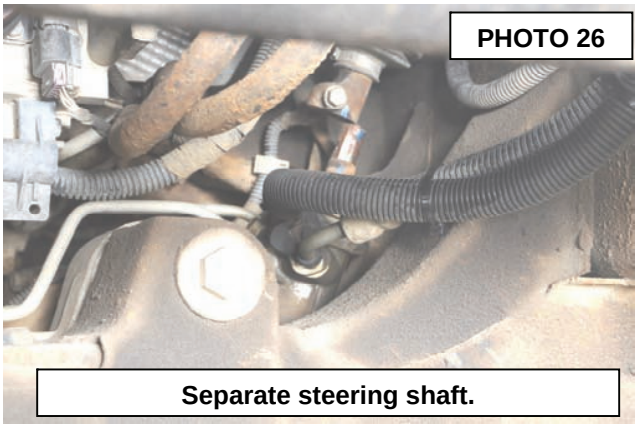
20. Using pliers, unclip the brake line clips from the frame rail, under the brake booster. **See Photo 23.**
21. **WARNING** **Strap the steering wheel to prevent accidental movement.**
22. Mark the steering shaft. **See Photo 24.**



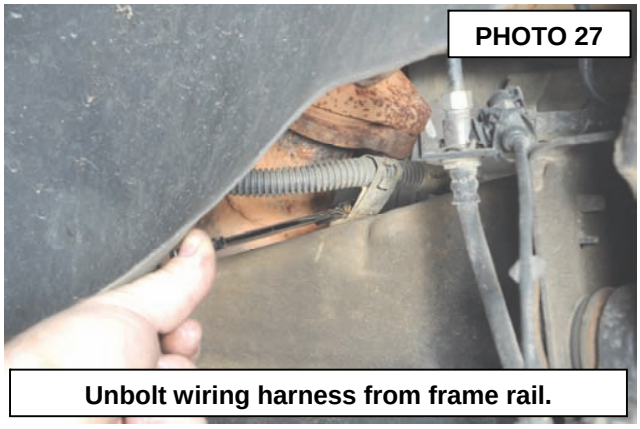


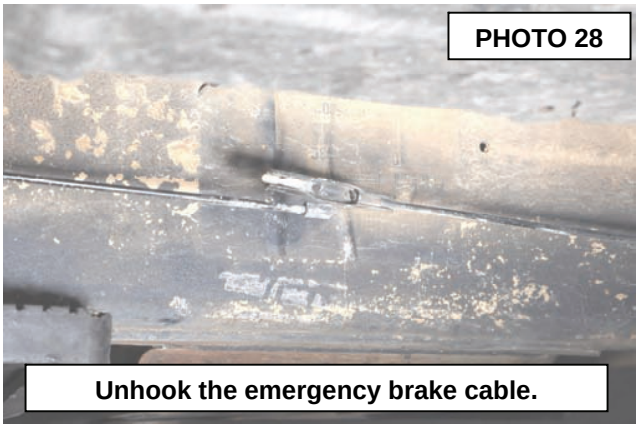
23. Using an 11mm socket, loosen the steering shaft bolt. **See Photo 25.**
24. Separate the steering shaft from the rack. **Do Not allow the steering to turn! See Photo 26.**



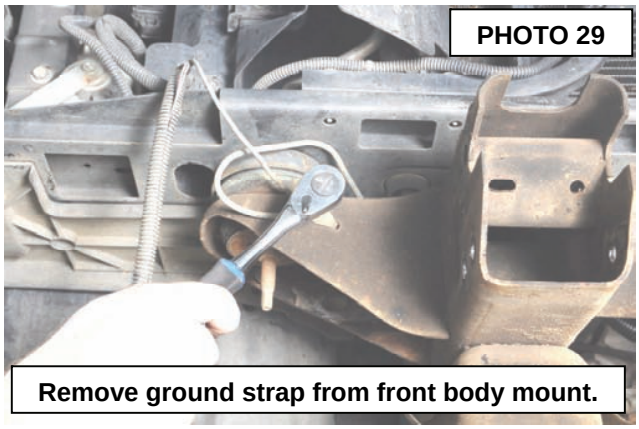


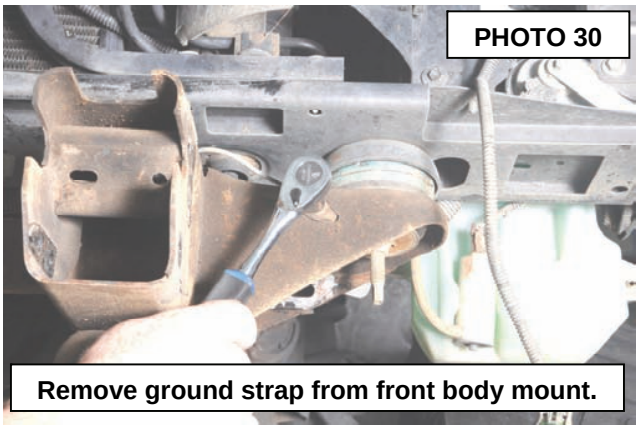
25. Using a 13mm wrench, unbolt the wiring harness from the passenger frame rail just behind the control arm mount. **See Photo 27**
26. Using pliers, unhook the emergency brake cable. **See Photo 28.**



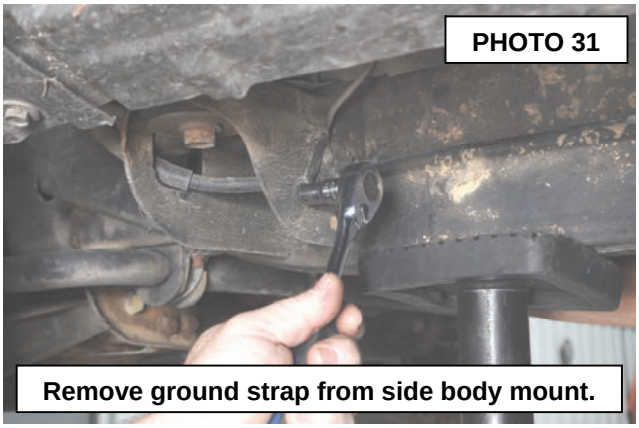


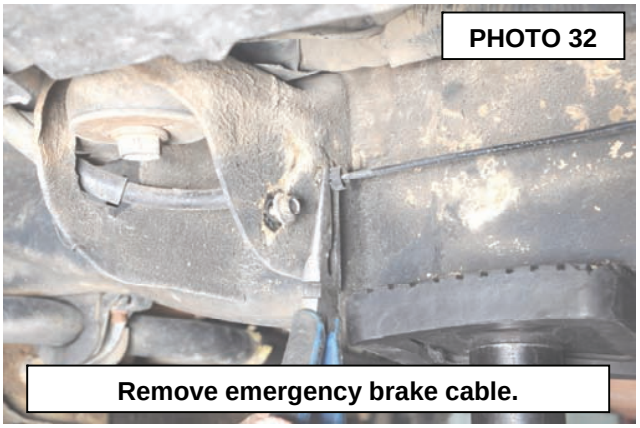
27. Using a 10mm socket, remove the ground strap from both front body mounts. **See Photos 29 & 30.**





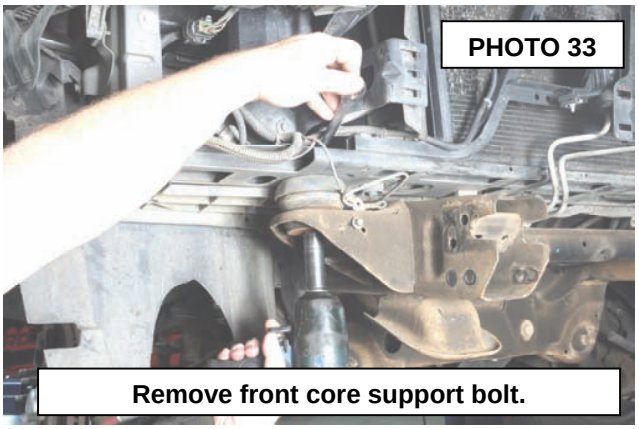
28. Using a 10mm socket, remove the ground strap from the body mount under the driver's door. **See Photo 31.**
29. Using pliers, remove the emergency brake cable from the body mount. **See Photo 32.**

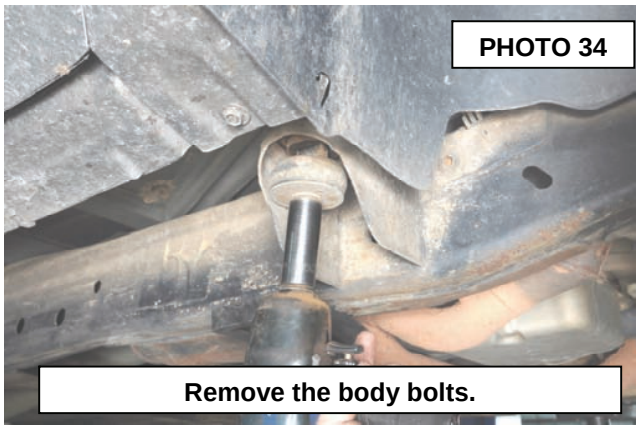




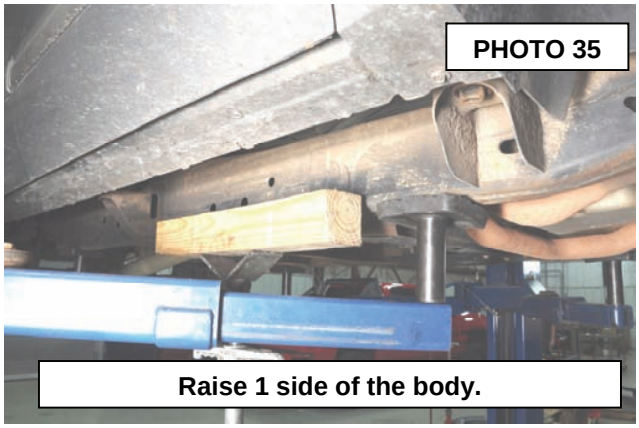
⚠WARNING ***Only remove the bolts from one side of the cab at a time***

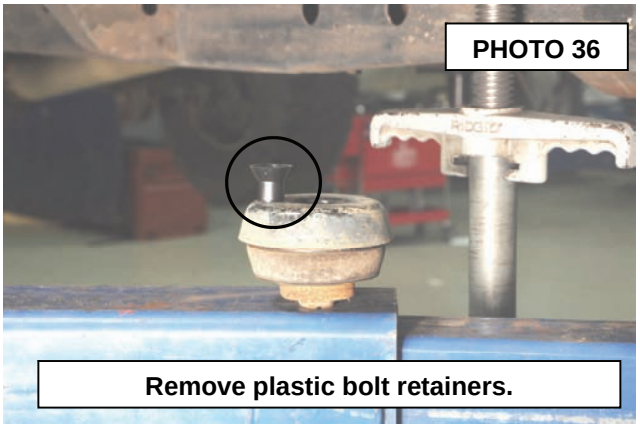
30. Using a 15mm socket and 19mm wrench, remove the front body bolt. **⚠NOTICE** Watch the AC lines on the passenger side. Retain factory nut **See Photo 33**.
31. Using a 21mm socket, **loosen** the body bolts. **See Photo 34.**



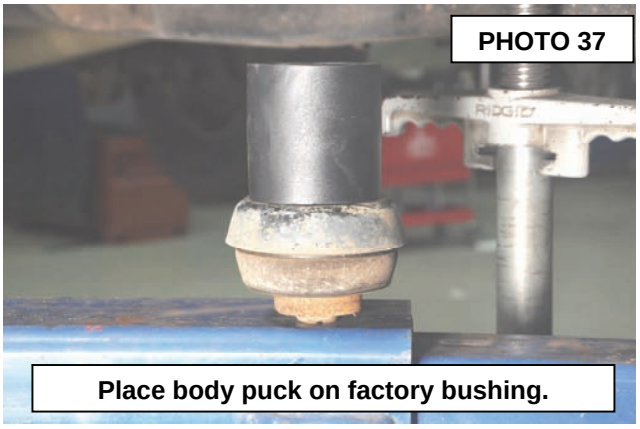


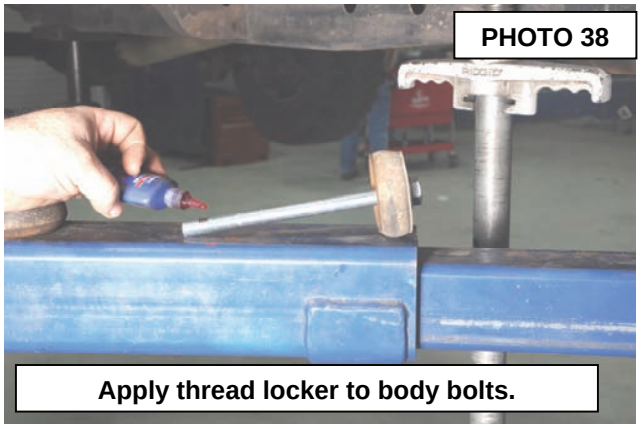
32. Using a jack and a block of wood, **⚠WARNING** ***only lift one side of the cab at a time, just enough to get the 3" body pucks in***. **See Photo 35.**
33. Remove the factory body bushings from on top of the body mounts and remove the plastic bolt retainers. **See Photo 36.**



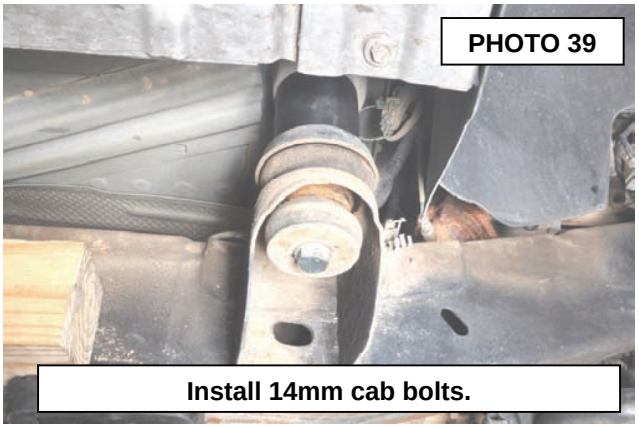


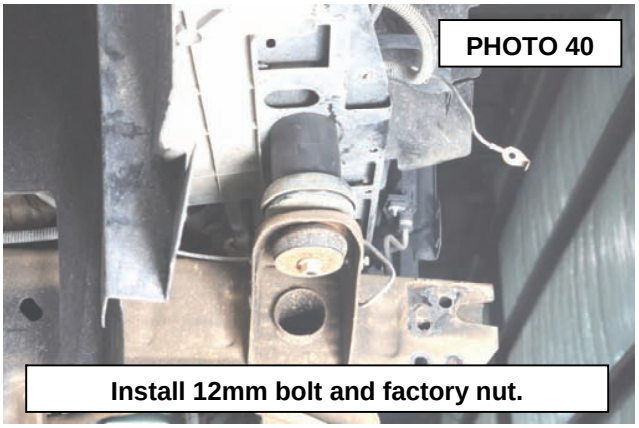
34. Place the supplied 3” x 3” diameter body pucks on top of the body bushing and install between cab and mount. **See Photo 37.**
35. Apply a thread locker to the supplied, (3) per side, 14mm x 200mm bolts and (1) per side 12mm x 180mm bolts. **See Photo 38.**



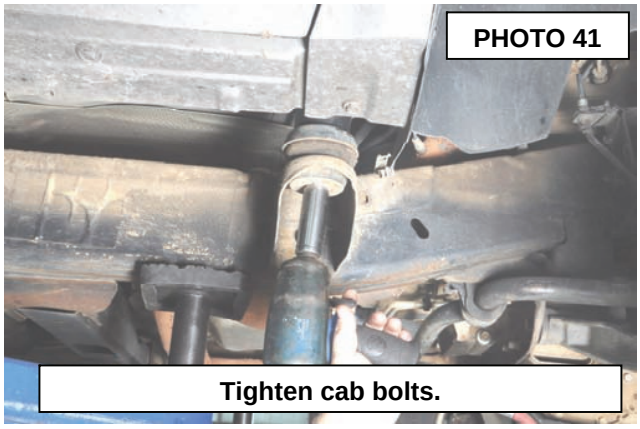


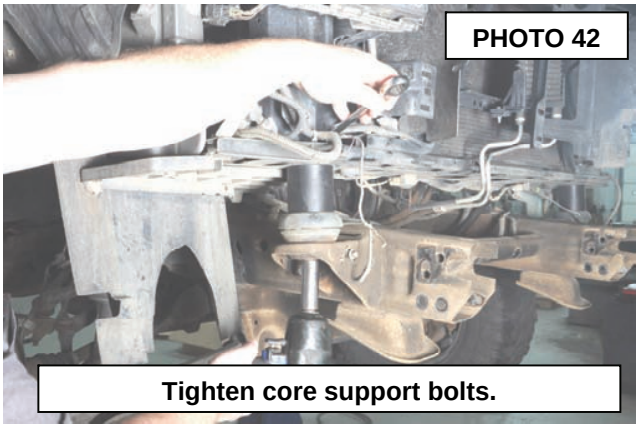
36. Install the supplied 14mm x 200mm bolts and washers in the cab mounts. **See Photo 39**. **Do not tighten at this time.**
37. Install the supplied 12mm x180mm bolt and washer in the core support mounts. **See Photo 40. Do not tighten at this time.**



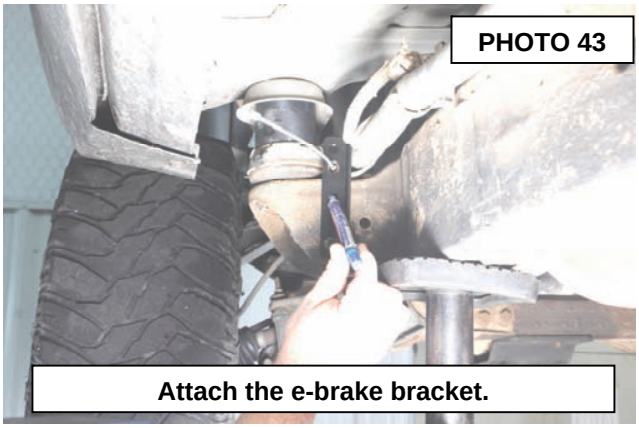


38. **Lower cab on the pucks then repeat steps 30-41 for the opposite side of the truck.**
39. Using a 22mm socket, tighten the cab mounts and torque to 55ft-lbs. **See Photo 41.**
40. Using a 18mm socket and 19mm wrench, tighten the front core support bolts and torque to 55 ft-lbs. **See Photo 42.**



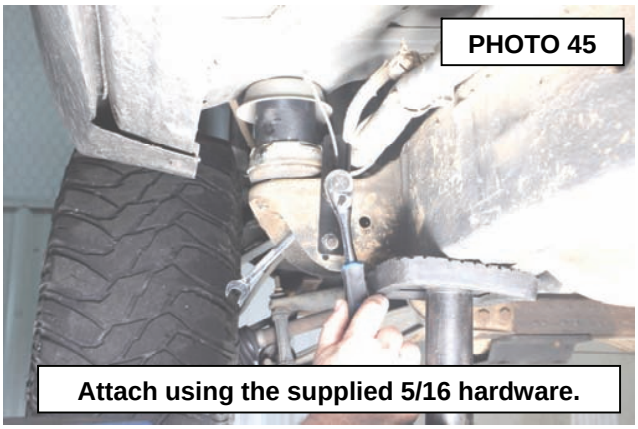


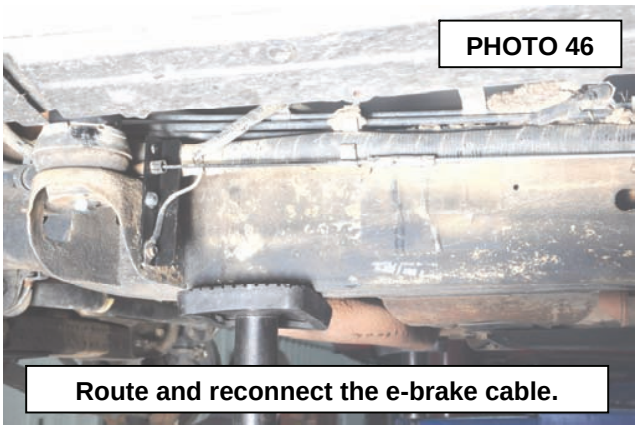
41. Install the emergency cable bracket using the factory ground bolt, on the cab mount under the driver's door. **See Photo 43.**
42. Test fit the cable into the bracket. Then mark and drill using a 3/8" drill. **See Photo 44.**



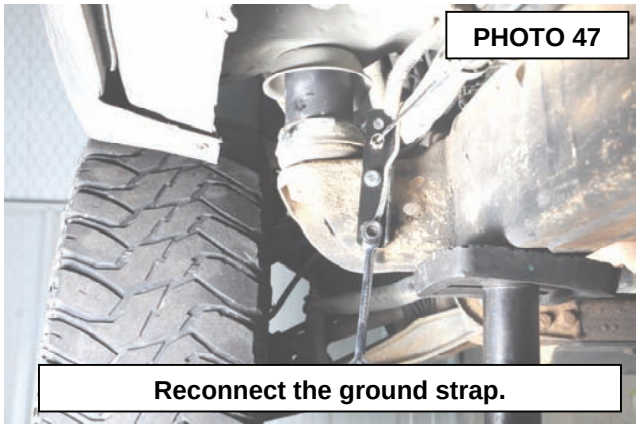


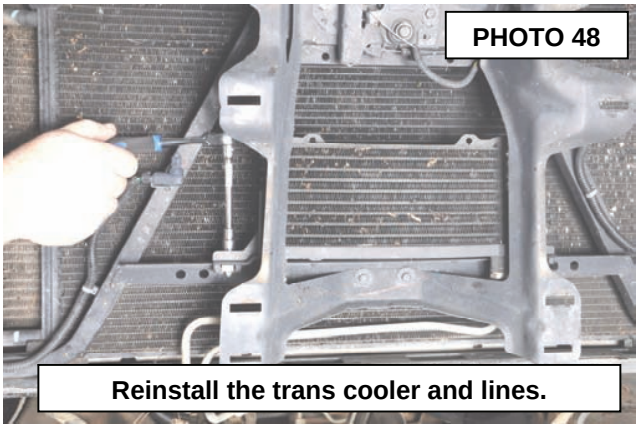
43. Install the supplied 5/16" x 1" bolt, washers and nut. Torque to 15ft-lbs using a 1/2" socket and wrench. **See Photo 45**.
44. Install the emergency brake cable and connect. **See Photo 46.**



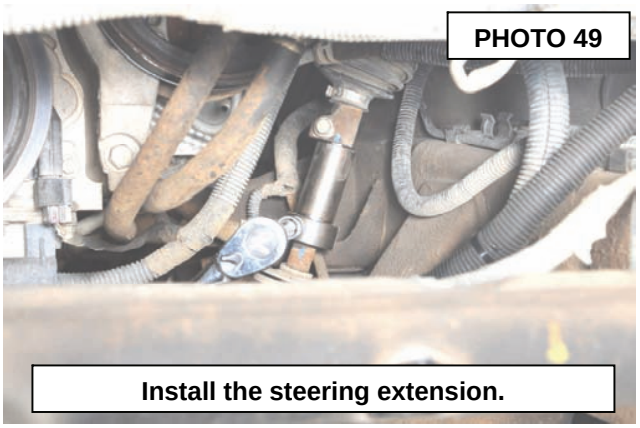


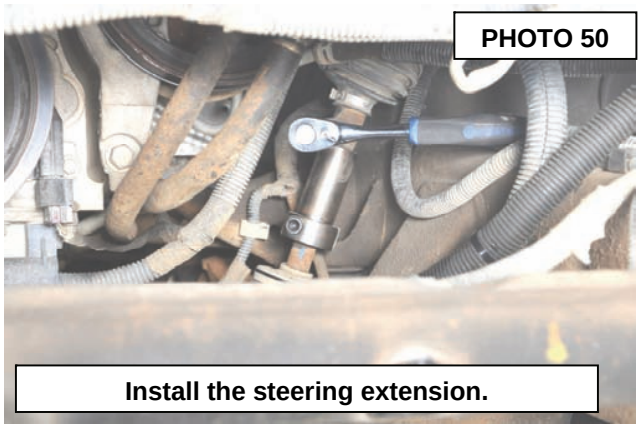
45. Reconnect the ground strap using a 10mm socket. **See Photo 47.**
46. Reinstall the transmission cooler and lines using the factory bolts. Torque to factory specs using a 10mm socket. **You may have to bend the cooler lines away from the AC mounting bracket and the serpentine belt. See Photo 48.**



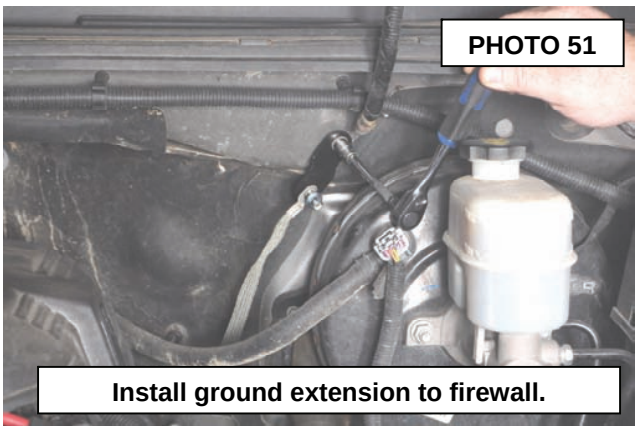


47. Install the supplied steering extension, using the supplied 3/8” x 1.25” bolt and factory bolt. . **See Photo 49.**
48. Apply thread locker on the threads. Tighten using a 5/16” Allen and 11mm socket. **See Photo 50.**



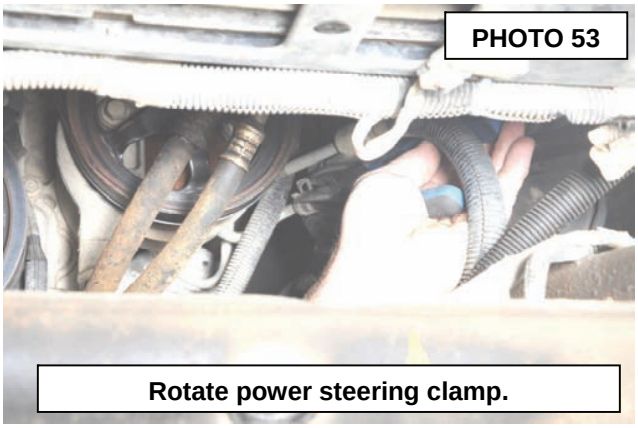


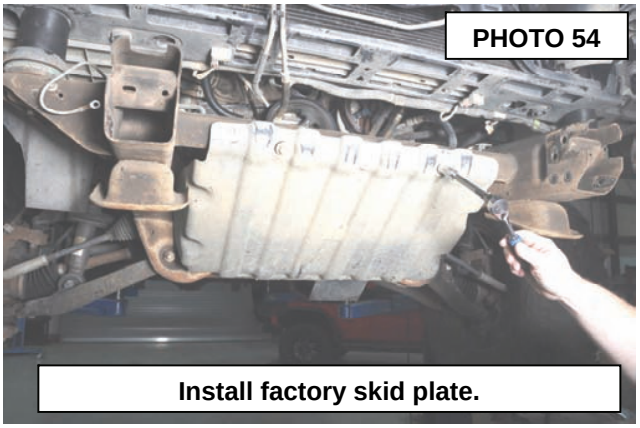
49. Install the supplied ground strap extension on the firewall, using the stock nut and the new supplied 1/4” x 1” bolt, nut and washers. **See Photo 51**.
50. Tighten using a 10mm socket and 7/16” socket. **See Photo 52.**





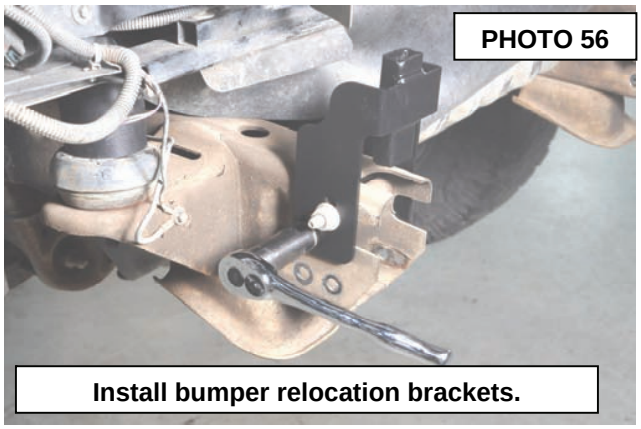
51. Rotate the power steering return line clamp away from the steering shaft. **See Photo 53.**
52. Reinstall the splash guard into the stock holes using the stock clips.
53. Reinstall the factory skid plate using the factory hardware. Torque to factory specs using a 15mm socket. **See Photo 54.**



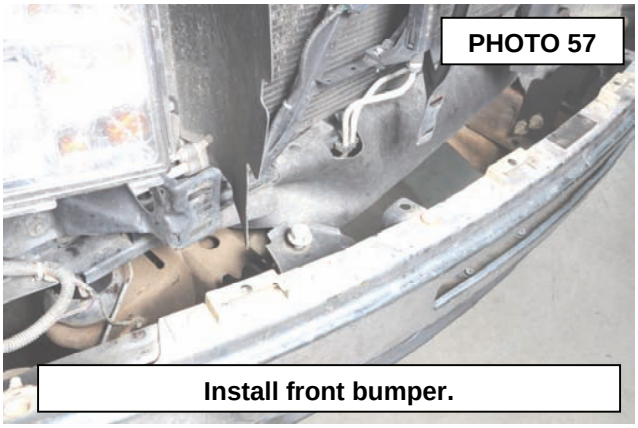


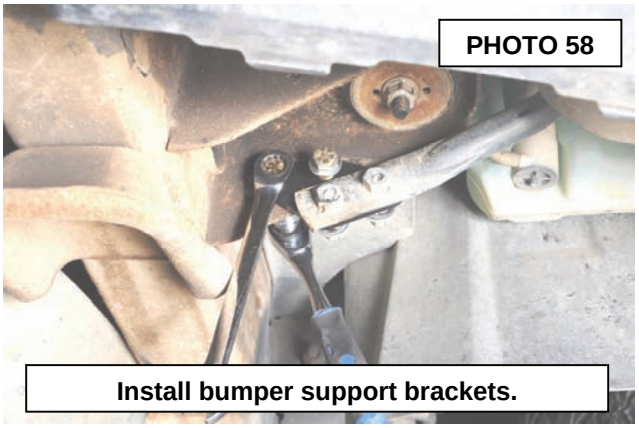
55. Reinstall both front ground straps using the factory hardware and a 10mm socket. **See Photo 55.**
56. Install new front bumper brackets using stock hardware. Torque to factory specs using 21mm socket. **See Photo 56.**





57. Loosen both bumper support brackets using a 15mm socket.
58. Install the front bumper on the new bumper brackets using the factory hardware. Do not tighten. **See Photo 57**.
59. Install the supplied bumper support brackets using the supplied 7/16" x 1.5" bolts washers and nuts. Attach the supports using the factory hardware. Torque the 7/16" hardware to 60ft-lbs and the factory hardware to factory specs. **See Photo 58.**





60. Torque the bumper bolts to factory specs using a 21mm socket.
61. Plug the fog lights in.
62. Install the grille using the factory hardware and a 10mm socket. **See Photo 59.**
63. Install the bumper cover using the factory hardware and a 7mm socket. **See Photo 60.**

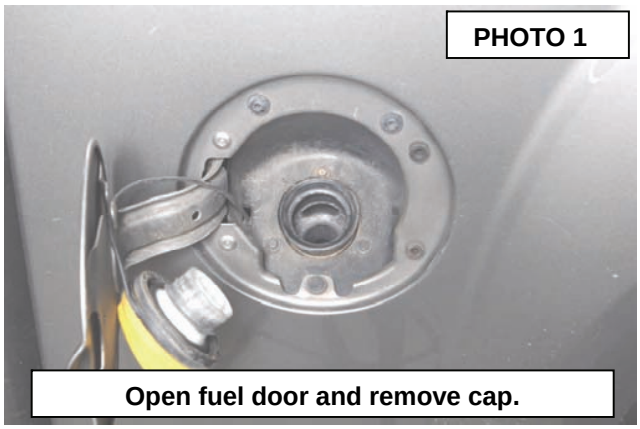


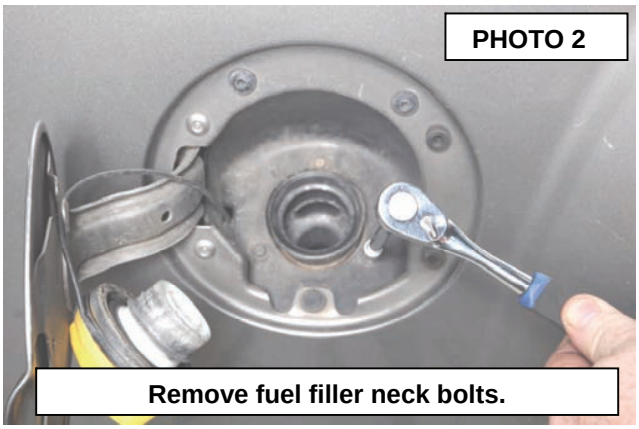


64. Re-attach the air intake using a screwdriver.
65. Install the radiator cover using the factory push pins.
66. Reinstall any loose wires.
67. Install the battery cables, positive first then negative, using a 10mm socket.
68. Plug the airbag fuse into the fuse panel.

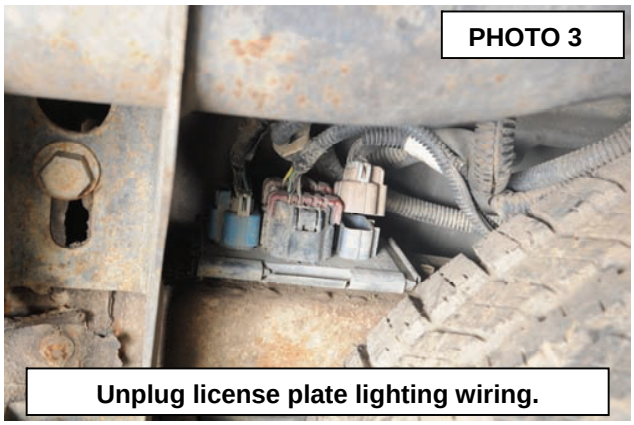
BED INSTALLATION INSTRUCTIONS

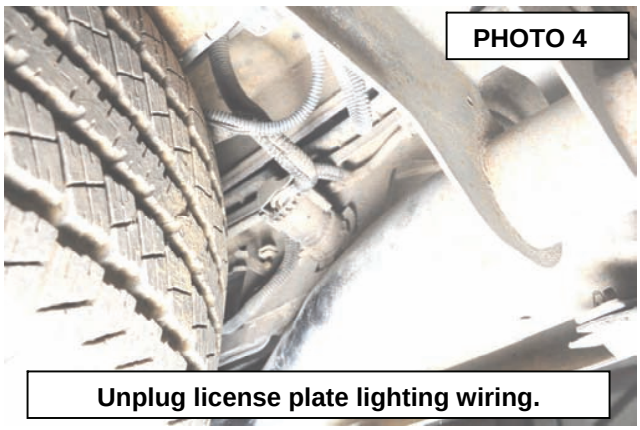
1. Using a 7mm socket, remove the fuel filler neck bolts. Retain hardware for reuse. **See Photos 1 & 2.**



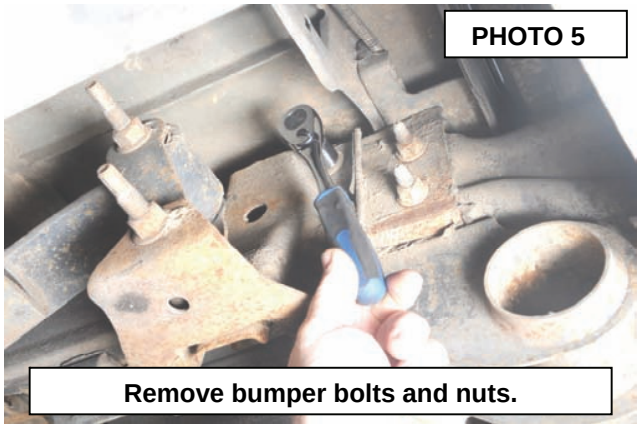


2. Remove the spare tire and locate the rear power junction box. Unplug the license plate lighting plug. **See Photos 3 & 4.**



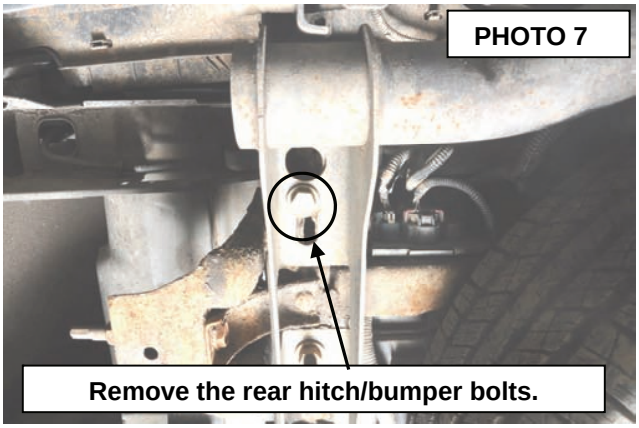


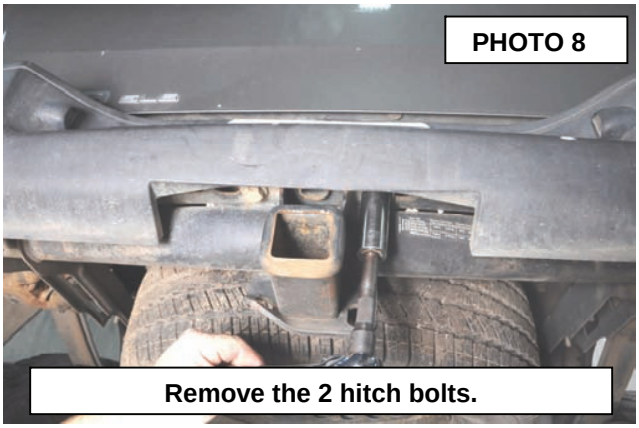
3. Remove the 2 nuts and 2 bolts from both sides of the rear bumper using a 15mm, 18mm, and 21mm socket. Retain hardware for reuse. **See Photos 4 & 5.**





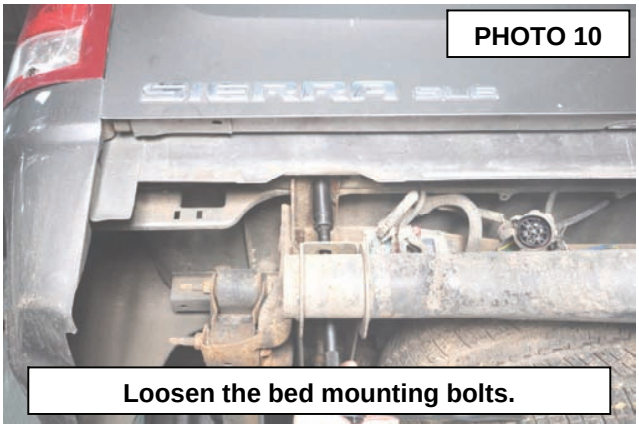
4. Using a 21mm socket, remove the rear hitch/bumper bolts from the bottom of the frame. Retain hardware for reuse. **See Photo 7.**
5. Using a 21mm, remove the 2 hitch bolts. Retain hardware for reuse. **See Photo 8**.

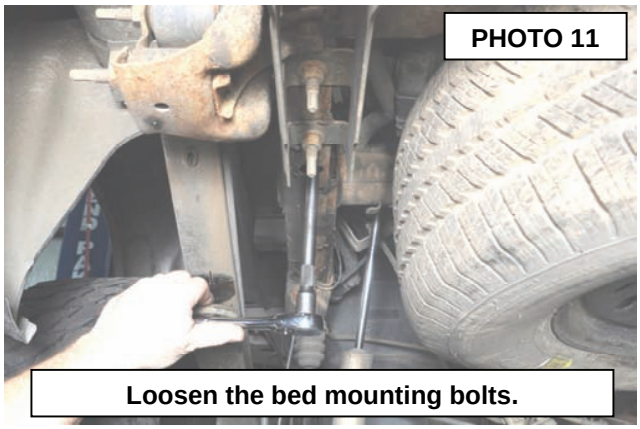


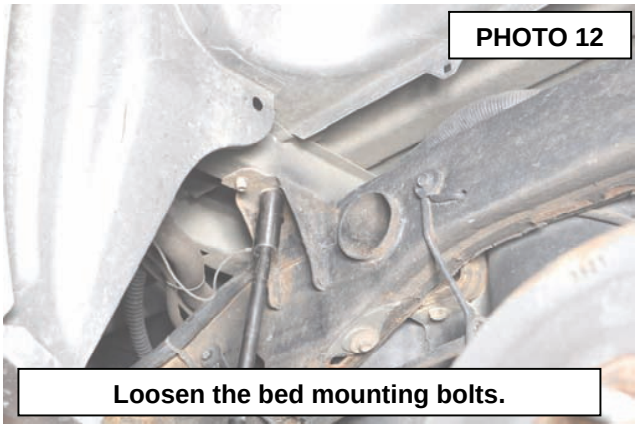


6. Remove the rear bumper. **See Photo 9.**
7. Using an 18mm socket, loosen (**Do Not Remove)** all 8 bed bolts. **See Photos 10,11, & 12.**



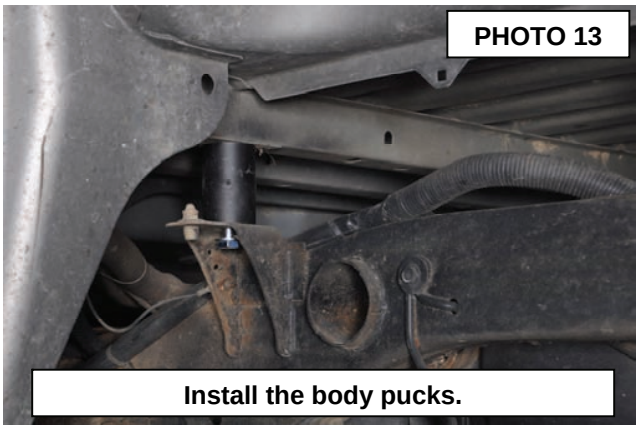


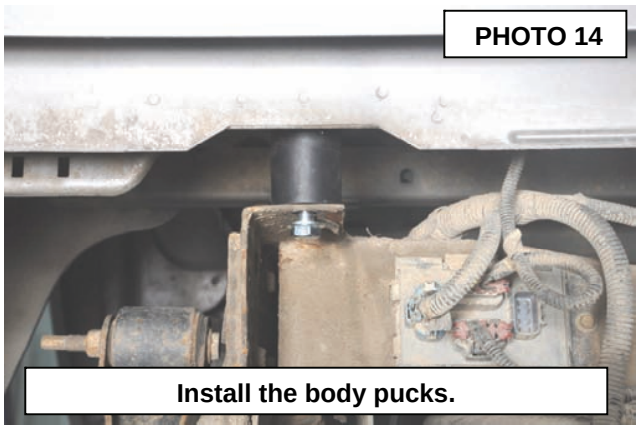




⚠WARNING ***Only remove the bolts from one side of the bed at a time***

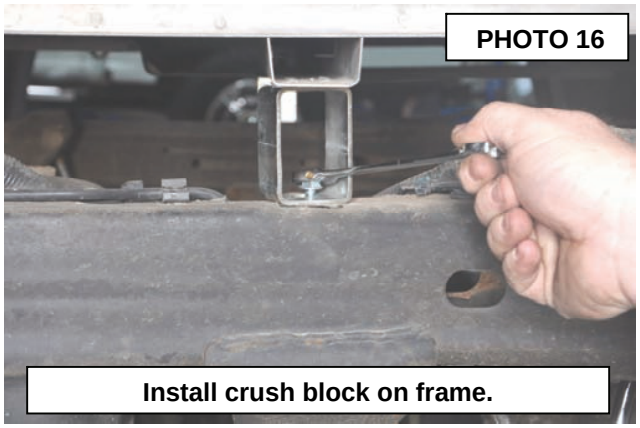
8. Using a jack and a block of wood, lift one side of the bed just enough to install the supplied 3” x 2” diameter body pucks.
9. Install the pucks using the supplied 12mm x 100mm bolts and washers, apply thread locker to these bolts. **Do Not Tighten. See Photos 13 & 14.**



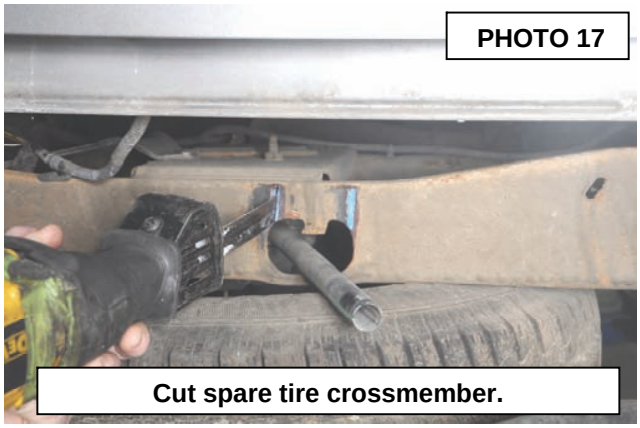


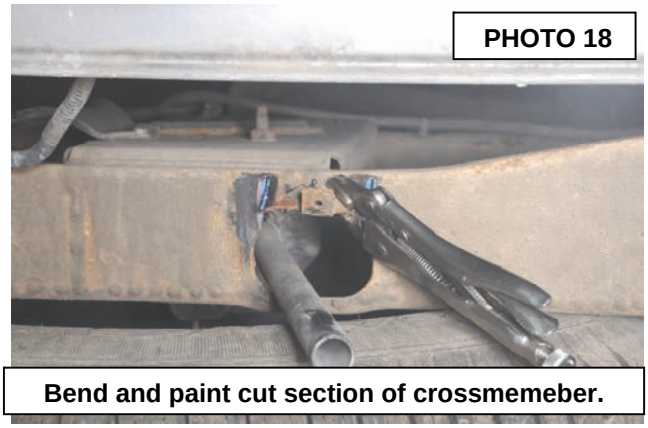
10. **Repeat steps 8 & 9 on the opposite side of the bed.**
11. Using a flat screwdriver, remove the pads from the middle of the frame on each side. **See Photo 15.**
12. Install the crush block using the supplied 5/16” self tapping bolt. Tighten using a 1/2” wrench. **See Photo 16. Short bed models will use 2 crush blocks and long bed models will use all 4 crush blocks.**





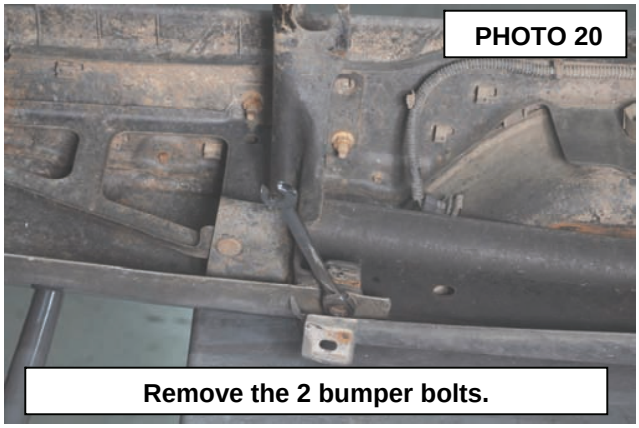
13. Using a 19mm socket, torque the 8 bed mounting bolts to 55ft-lbs.
14. Mark and cut the spare tire crossmember. **See Photo 17.**
15. Bend the cut section up using pliers. Paint the cut area to prevent rust. **See Photo 18.**



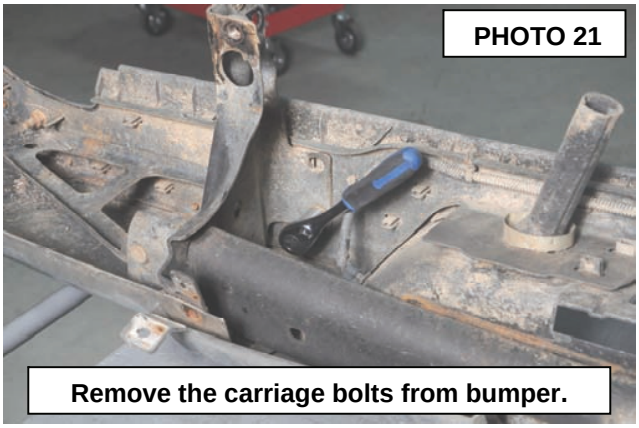


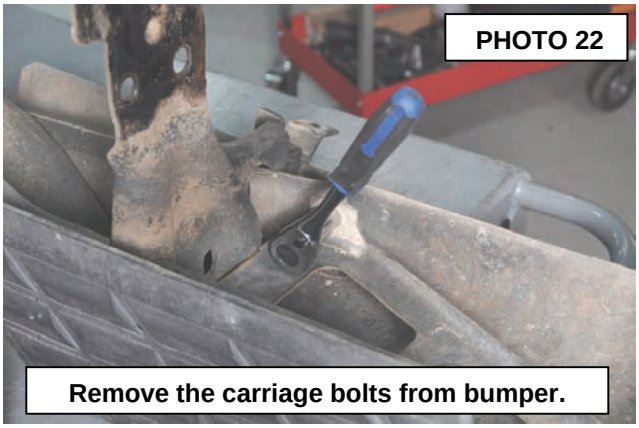
16. Using pliers, remove the 2 clips from the bottom of the bumper. **See Photo 19.**
17. Using a 13mm wrench, remove the 2 bolts from the bumper. Retain hardware for reuse. **See Photo 20.**





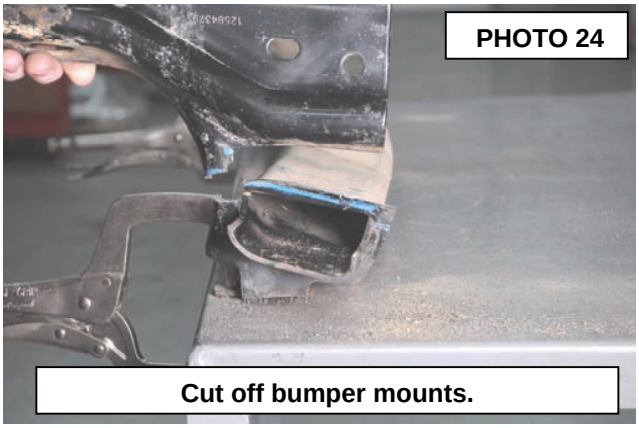
18. Using a 15mm socket, remove the 2 carriage bolts from the bumper. Retain hardware for reuse. **See Photos 21 & 22.**



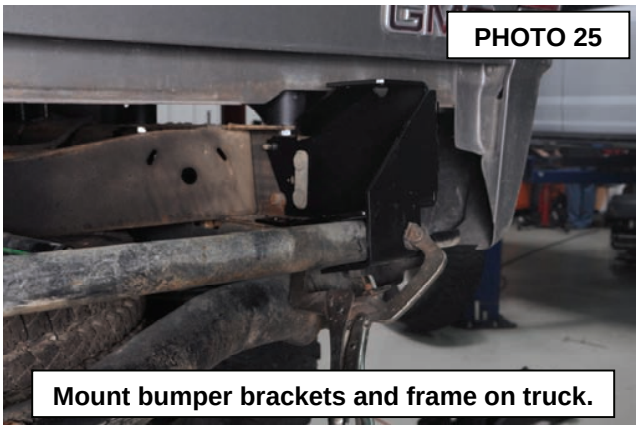


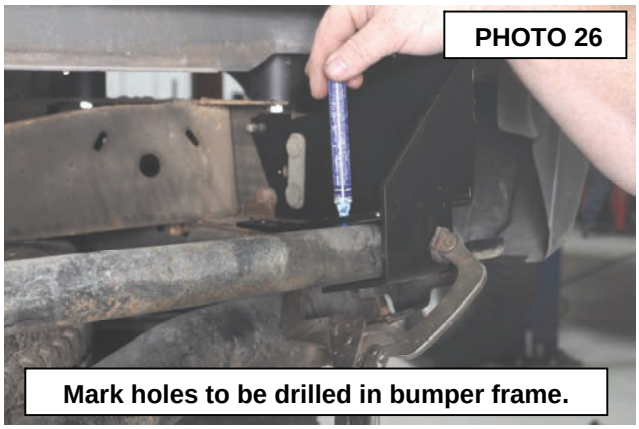
19. Remove the bumper frame from the bumper**. See Photo 23.**
20. Mark and cut both mounts off of the bumper frame. Paint cut area to prevent rust. **See Photo 24.**



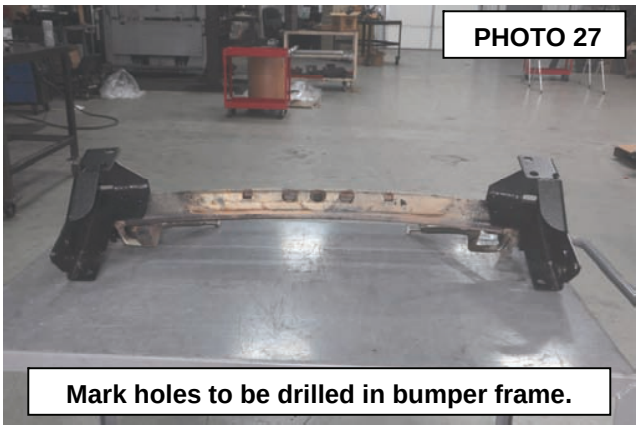


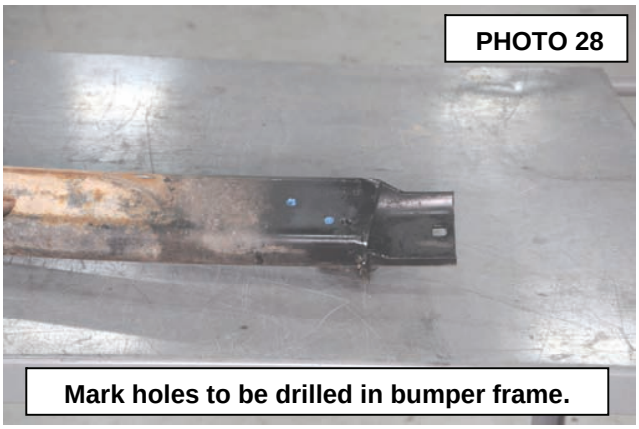
21. Install the supplied rear bumper relocation brackets on the frame rails using the factory double bolt fasteners. **See Photo 25.**
22. Clamp the bumper frame to the supplied bumper relocation brackets. Use the relocation bracket as a guide and mark the holes to be drilled in the bumper frame. **See Photo 26.**



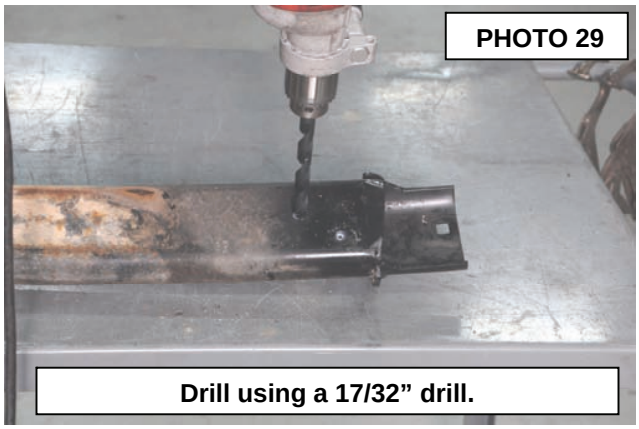


23. Remove the bumper frame from the truck making sure all 4 holes are marked for drilling. **See Photos 27 & 28.**



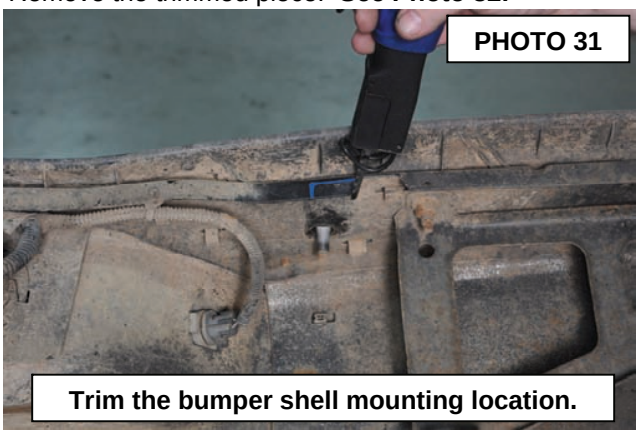


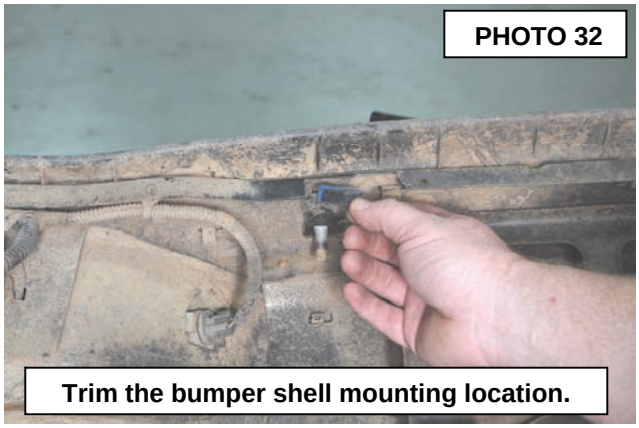
24. Using a 17/32” drill, drill the 4 holes in the bumper frame. **See Photo 29.**
25. On the bumper shell, measure over 1 1/4” from the inside, where to the stock bracket mounted, and mark. **See Photo 30.**



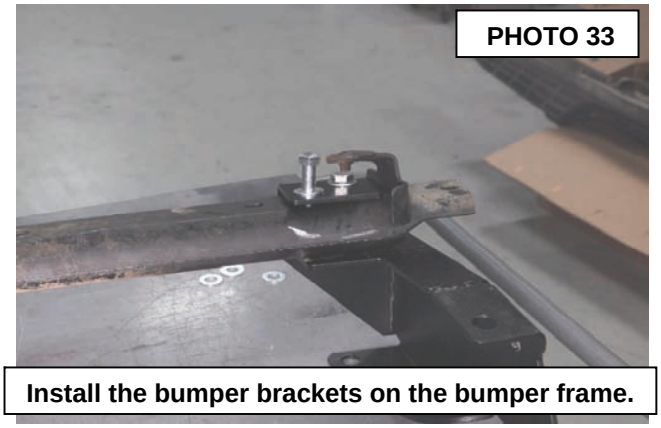


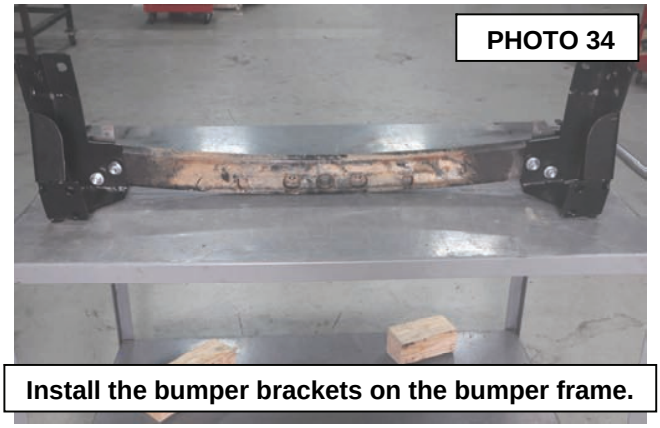
26. Trim bumper shell where marked. **See Photo 32.**
27. Remove the trimmed piece. **See Photo 32.**



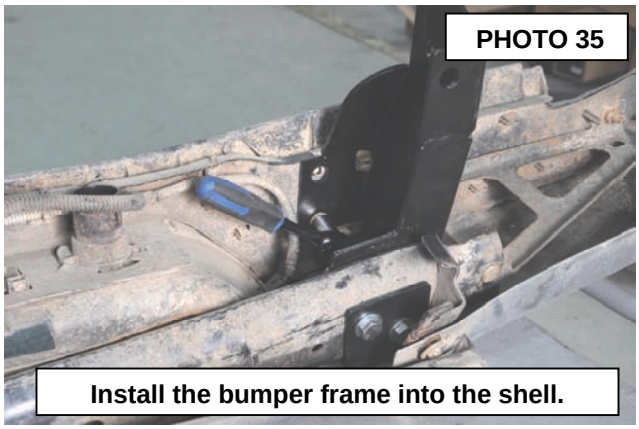


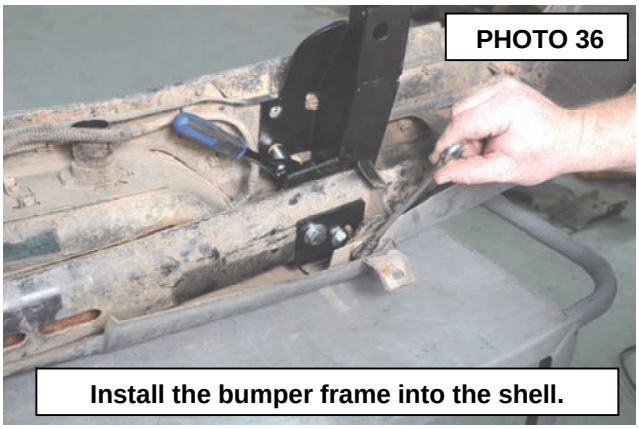
28. Attach the bumper frame to the bumper brackets using the supplied 1/2" x 3" bolts, washers, and nuts. Torque to 65 ft-lbs using a 3/4" socket and wrench. **See Photos 33 & 34.**





29. Install the bumper frame back into the bumper shell using the stock hardware. Torque to factory specs. **See Photos 35 & 36.**





30. Install the bumper onto the truck using the supplied 10mm x 40mm bolts, washers, and nuts and the factory double bolts and hardware. Do not tighten. **See Photo 37.**
31. Install the supplied body pucks and cover bracket using the supplied 14mm x 110mm bolts and washers. **See Photos 38 & 39.**



Install the bumper on the truck.

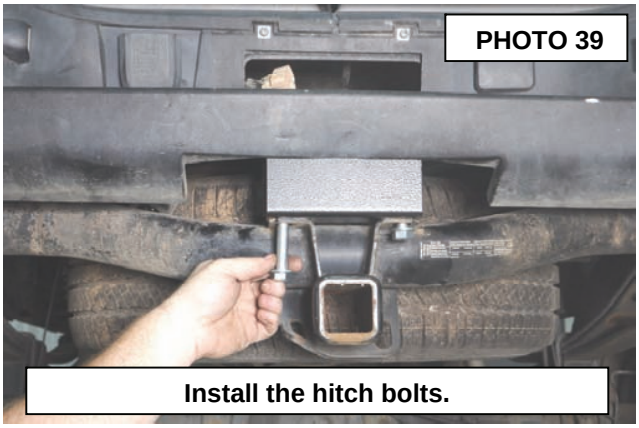


Install the hitch body pucks and cover.

32. Make sure the rear bumper is level and straight. Torque the factory hardware to factory specs using a 18mm socket. Torque the supplied 10mm hardware to 32 ft-lbs using a 17mm and the 14mm hardware to 85ft-lbs using a 22mm.

NOTICE **Rear bumper cannot be used for towing after installation of bumper relocation brackets.**

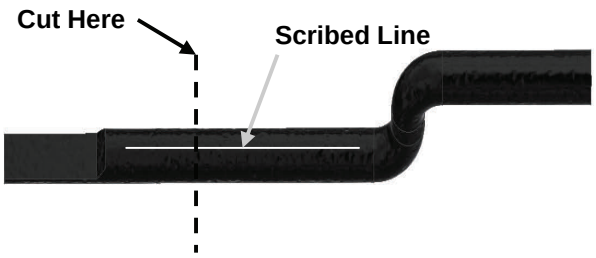
33. Plug the license plate lighting wiring harness back up.
34. Reinstall the fuel filler neck using the stock hardware and a 7mm socket.

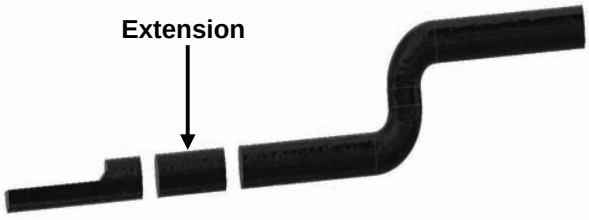


Install the hitch bolts.

Manual TC Shift Linkage Ext.

1. Remove the linkage from the shift lever and the transfer case shift arm.
2. Scribe a line along the center of the linkage arm.
3. Cut the linkage arm across the scribed line.
4. Insert the linkage extension in between the 2 pieces of the linkage arm, aligning the scribed lines from step 2.
5. Weld the linkage arm to the extension on both sides.
6. Install the linkage back onto the shifter and the transfer case lever.
7. Check for complete transfer case engagement in all ranges.





POST INSTALLATION INSTRUCTIONS

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Test and inspect brake system.
2. On some vehicles the front lower skirting will need to be trimmed if using certain wheel /tire combinations and with heavy offset wheels. Trim only as needed.
3. Activate four wheel drive system and check front hubs for engagement.
4. Perform head light check and adjustment to proper settings.
5. All kit components must be retightened at 500 miles and then every three thousand miles after installation. Periodically check all hardware for tightness.
6. Install “Warning to Driver” decal on sun visor.

Kit Contents:

8-3” x 3” dia. Body Pucks (Cab)
10-3” x 2” dia. Body Pucks (Bed)
1-Steering Shaft Extension
4-Bed Crush Blocks
2-Frt Bumper Support Brackets
2-Frt Bumper Frame Mount Brackets
1-Dr Rear Bumper Bracket
1-Pass Rear Bumper Bracket
1-Parking Brake Relocation Bracket
1-Hitch Spacer cover

RC702BAG Containing:

For Front Cab Mounts:
14mmx 200mm Bolts (6)
12mm x 180mm Bolts (2)

For Emergency Brake Cable Bracket:
5/16” x 1” Bolt (1)
5/16” Washers (2)
5/16” Nylock Nut (1)

For Steering Extension:
3/8” x 1 1/4” Bolt (1)

For Cab Ground Wire Extension:
1/4” x 1” Bolt (1)
1/4” Flat Washer (2)
1/4” Lock Nut (1)

For Front Bumper Support Brackets:
7/16” x 1 1/2” Bolts (4)
7/16” Flat Washers (8)
7/16” Nylock Nuts (4)

For Bed Mounts:
12mm x 100mm Bolt (8)

For Bed Crush Blocks:
5/16” x 1 Self Tapping Bolts (4)

For Rear Bumper:
10mm x 40mm Bolts (2)
10mm Nylock Nuts (2)
1/2” x 3” Bolts (4)
1/2” Flat Washers (8)
1/2” Lock Nuts (4)
14mm x 110mm Bolts (2)
14mm Flat Washers (2)

For Manual Transfer Case
Transfer Case Linkage Ext. (1)



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