Rough Country RC703 Installation Instructions

Body Lift Kit with Bumper Relocation Brackets

Part number: RC703

trailfortress.com/body-lift-kit-rough-country-rc703

Scan for fitment, price and install help

921RC7030

ROUGH COUNTRY SUSPENSION SYSTEMS®

RC703BAG2

GM 88-98 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 short bed and long bed models. Short bed models will not utilize all body 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

CAB INSTALLATION INSTRUCTIONS

1. Raise the hood and disconnect the positive and negative battery cables from the battery using an 8mm wrench.
2. Using a Phillips screwdriver, remove the 4 screws holding the 2 parking light housings. Retain hardware for reuse. **See Photo 1.**
3. Remove the parking lights from the housing and remove the housings from the truck. **See Photo 2.**





4. Using a 7mm socket, remove the 10 grille bolts. 4 bolts on top, 2 behind each parking light, and 2 in the center of the grille. Retain hardware for reuse. **See Photos 3 & 4.**





5. Remove the grille and set aside. **See Photo 5.**
6. Using an 18mm wrench and socket, remove the side bumper mounts. **See Photo 6.**

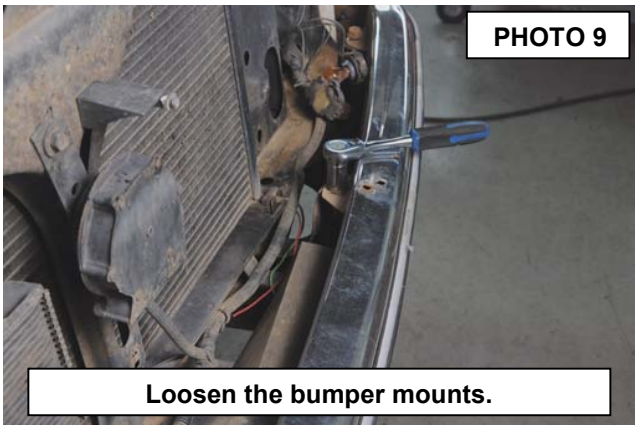




7. Using an 18mm socket, **loosen** the side bumper mounts at the bumper. **See Photos 7-10.**









8. Using a 21mm socket, remove the bumper to frame horn bolts and remove the bumper. Retain hardware for reuse. **See Photo 11.**
9. Using a 15mm socket, disconnect the steering shaft from the lower part of the steering column. Retain hardware for reuse. **Lock the steering wheel so that it does not turn. See Photos 12 & 13.**





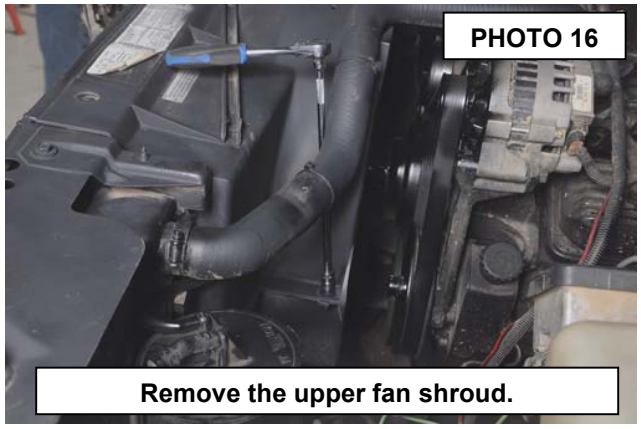
10. Remove the wiring harness from the fan shroud clips. **See Photo 14.**





11. Using a 10mm socket, remove the bolts for the upper fan shroud. Retain hardware for reuse. **See Photos 15 & 16.**





12. Remove the upper fan shroud from the truck. **See Photo 17.**
13. Using a 15mm socket, remove the skid plate. Retain hardware for reuse. **See Photo 18.**





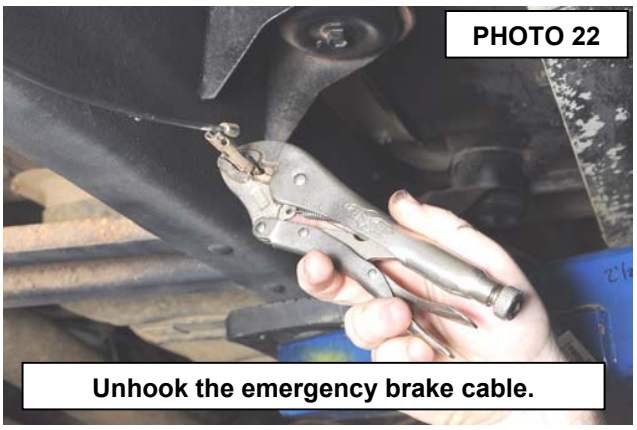
14. Using a 10mm wrench, remove the (2) lower fan shroud bolts. Retain hardware for reuse. **See Photo 19.**
15. Using a 13mm wrench, remove the clutch fan from the water pump. **See Photo 20**.



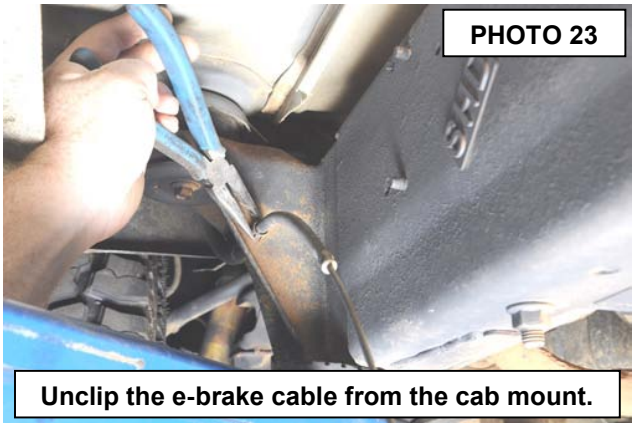


16. Reinstall the fan clutch nuts back on the studs, to keep the water pump pulley from moving, using a 13mm wrench. **See Photo 21.**
17. Separate the emergency brake cable at the clip joining the front and rear cables together, using locking pliers to hold the slack in the cable. **See Photo 22.**





18. Using pliers, unclip the brake line clips from the body mount, under the driver door. **See Photo 23.**
19. Using a 13mm wrench, remove the 2 bolts (driver side fender well) holding the wiring harness and brake lines. Retain hardware for reuse. **See Photos 24 & 25.**

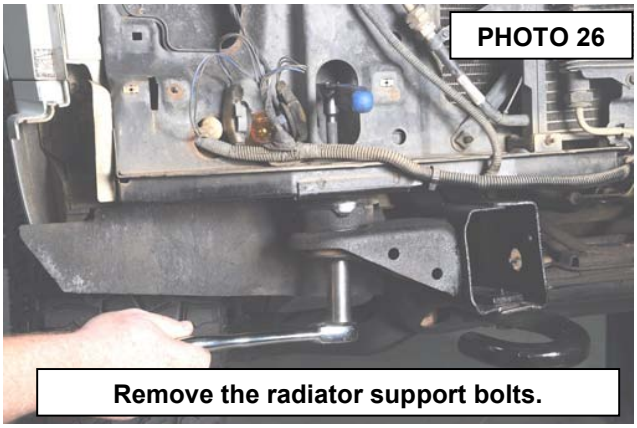




20. Make sure the wires going to the differential have plenty of slack..
21. Using a 13mm socket, remove the ground wire bolt from the frame on the passenger side behind the fender well.
22. Remove the driver seat using a flat screwdriver and a 13mm and/or 15mm socket.
23. Unplug the electric seat if equipped.
24. Pull the carpet up to find the automatic shift cable and remove the clip and tape holding it to the body. Push the cable through the boot on the floor for slack.
25. Using a 15mm and an 18mm socket, remove the body mount bolts from the radiator support. Retain hardware for reuse. **See Photo 26.**



Remove the wiring harness and brake line bolts.



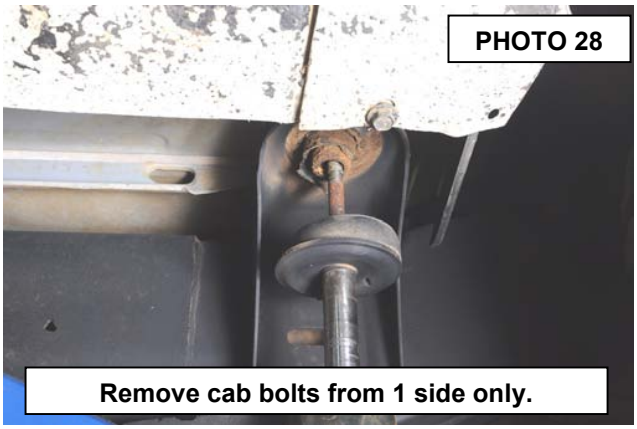
Remove the radiator support bolts.

⚠WARNING ***Only remove the bolts from one side of the cab at a time. Make sure the heater hoses are clear before lifting the body.***

26. Using a 15mm socket, loosen all the cab mounting bolts. **See Photo 27.**
27. Remove the bolts from the passenger side body mounts only.. **See Photo 28.**



Loosen all the cab mounting bolts.



Remove cab bolts from 1 side only.

28. Using a block of wood and a jack, raise the passenger side just enough to install the supplied 3" x 3" body pucks. Install the supplied 12mm x 180mm bolts and washers **(Apply thread locker to all cab mounting bolts)**. **Do not tighten at this time. See Photos 29 & 30.**
29. **Repeat steps 26-28 for the driver side.**

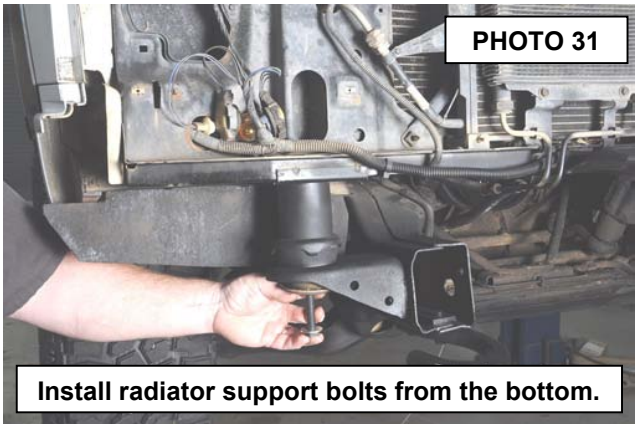


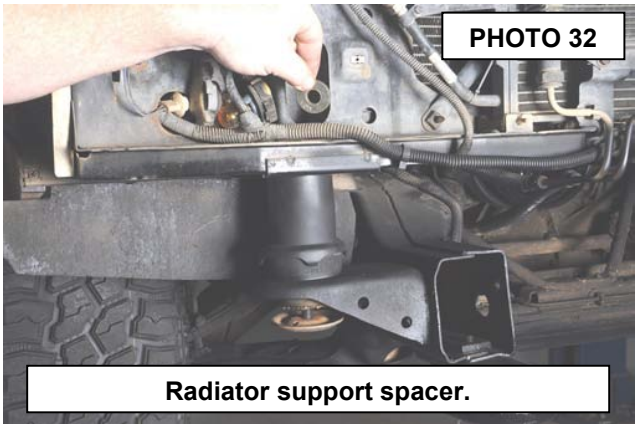
Use a block of wood to raise the body..



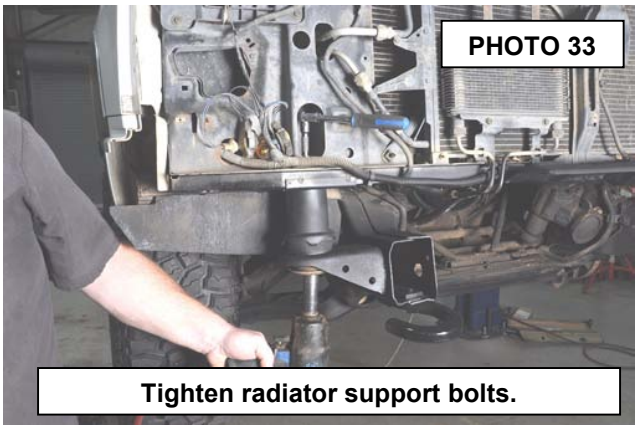
Install the 3x3 body pucks.

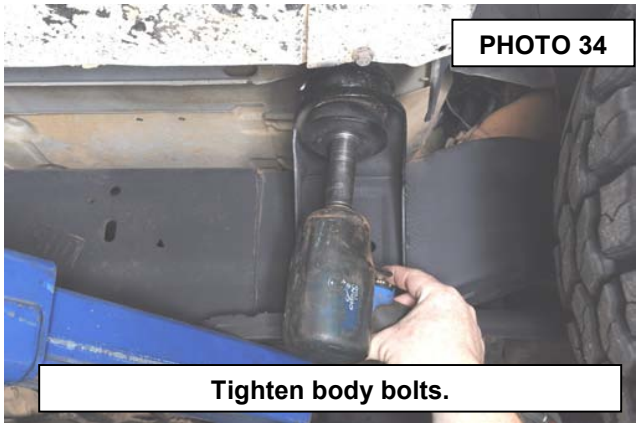
30. Install the supplied 12mm x 180mm bolts, at the radiator support, from the bottom up, using the supplied thick washer on the bottom. **See Photos 31 & 32.**



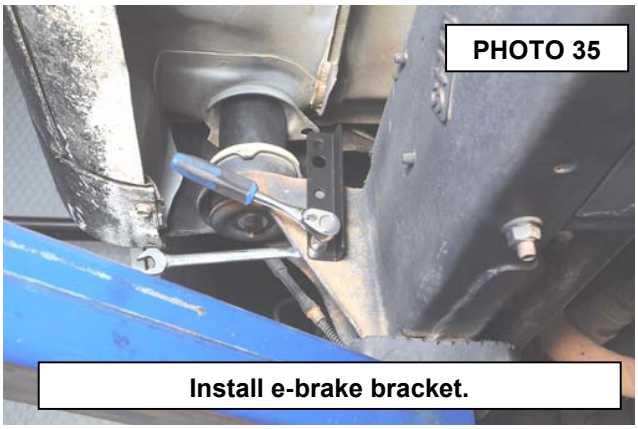


31. Tighten all cab bolts using a 19mm socket and 18mm wrench and 19mm socket for the radiator support bolts. Torque to 55ft lbs. **See Photos 33 & 34.**



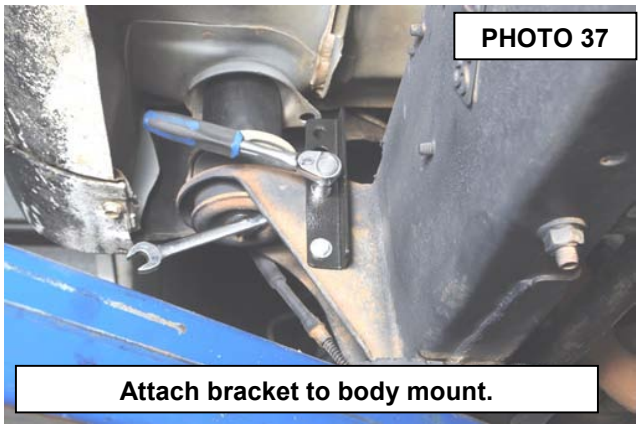


32. Reattach the brake lines and wiring harness to the frame (from steps 19 & 20) using the factory hardware. Torque to factory specs using a 13mm socket.
33. Install the supplied emergency brake cable bracket using the supplied 5/16" x 1" bolts, washers, and nuts. Torque to 15ft/lbs. **See Photo 35.**

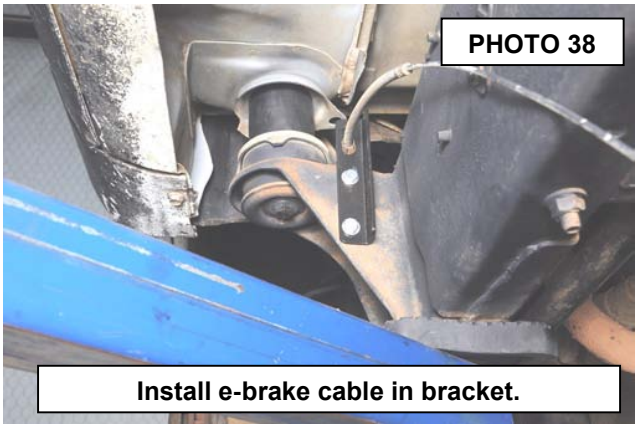


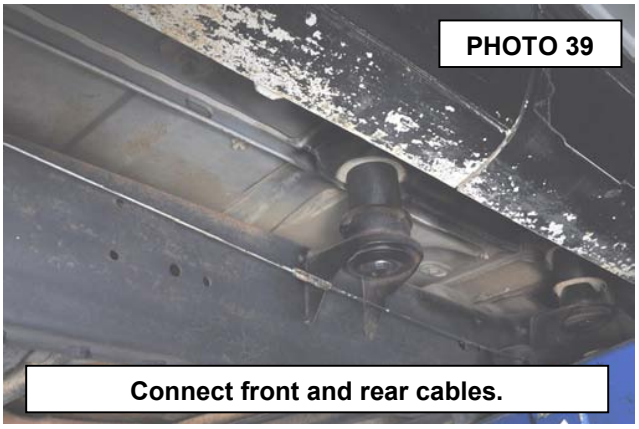
34. Using the bracket as a guide, drill a 5/16” hole in the body mount bracket. **See Photo 36.**
35. Install the supplied 5/16” x 1” bolt, washer and nut and torque to 15ft/lbs using a 1/2” wrench and socket.. **See Photo 37.**





36. Install the emergency brake cable into the relocation bracket and attach the front and rear cables. **See Photos 38 & 39**.





37. On the lower fan shroud, measure 2” back from the edge and mark. **See Photo 40.**
38. Measure 6” up from each side and mark. **See Photos 41 & 42.**





39. Cut along the mark, file or sand the cut edges.. **See Photo 43.**
41. Test fit the shroud and make any additional cuts if needed.



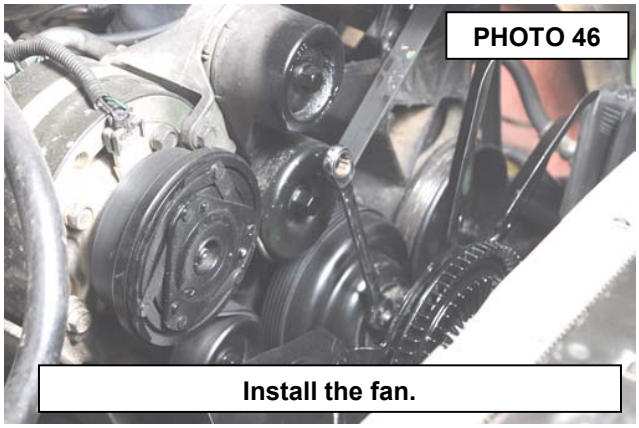


42. Install the lower shroud using the factory hardware.. **See Photo 44**.
43. Tighten the factory hardware using a 10mm wrench. **See Photo 45.**



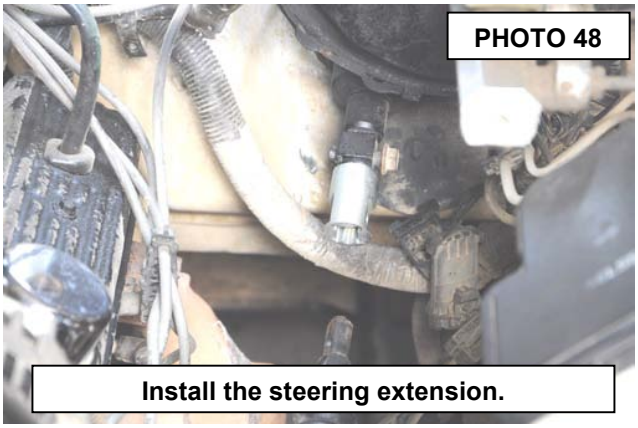


44. Install the fan onto the clutch using the factory hardware and a 13mm wrench. **See Photo 46.**
45. Install the factory upper fan shroud using the factory hardware. Torque to factory specs using a 10mm socket. **See Photo 47.**
46. Attach the wiring harness to the fan shroud.





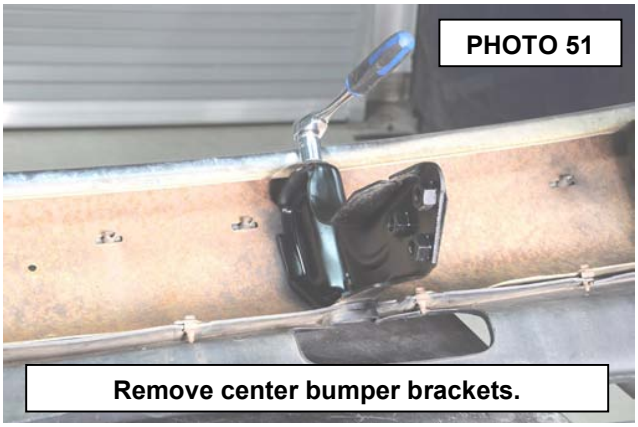
47. Install the supplied steering extension, using the factory bolt in the lower steering column. **See Photo 48.**
48. Attach the steering shaft to the extension using the supplied 3/8" x 1.5" bolt, washer and nut. **See Photo 49.**
49. Torque the factory bolt to factory specs using a 15mm socket. **See Photo 49.**





50. Torque the supplied bolt to 30ft/lbs using a 9/16" socket and wrench. **See Photo 50.**
51. Remove the 2 inside factory bumper brackets from the front bumper using an 18mm socket. **See Photo 51.**



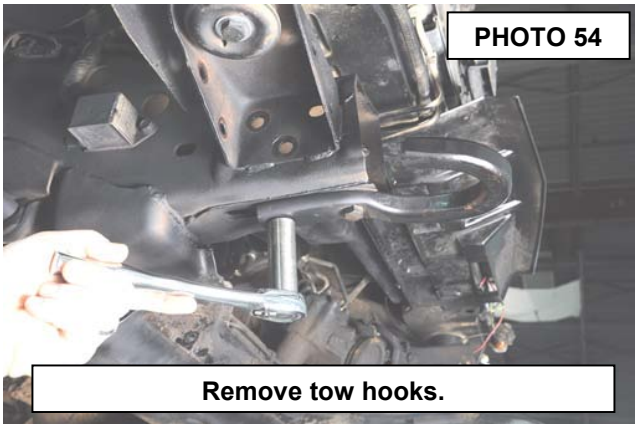


52. Install the supplied bumper brackets using the supplied 7/16" x 1" bolts, washers, and nuts. Larger washers will go under the head of the bolts. **Do not tighten, only snug (using a 5/8" socket and wrench) the bolts at this time. See Photos 52 & 53**.





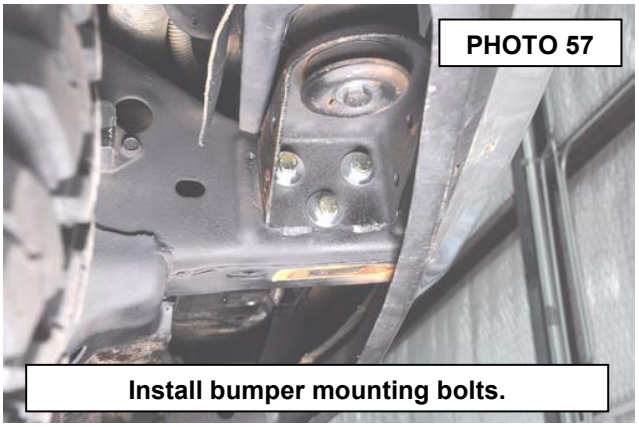
53. Using an 18mm socket, remove the tow hooks. Retain hardware for reuse. **See Photo 54.**
54. Install the front bumper using the supplied 7/16” x 1.5” bolts, washers, and nuts. **See Photo 55.**



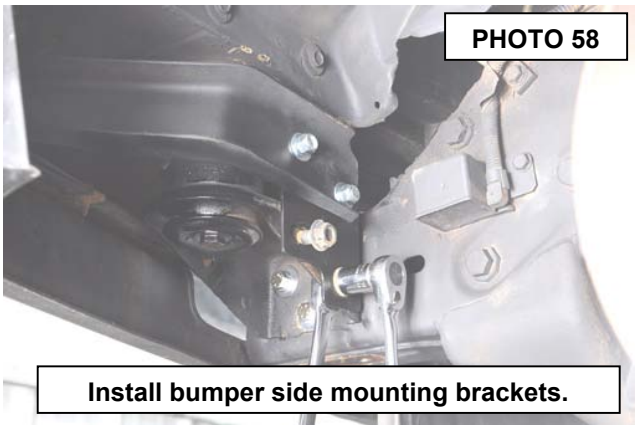


55. Install the supplied flag nut into the frame rail. **See Photo 56**.
56. Install the supplied 7/16” x 1.5” bolts and washers. **See Photo 57.**

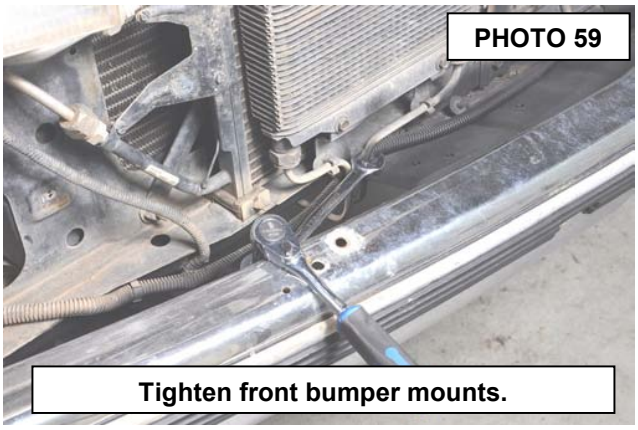




57. Install the supplied side bumper mounting brackets using the factory hardware on the frame side and the supplied 7/16” x 1” bolts, washers, and nuts for the bumper side. **See Photo 58.**
58. Torque the factory hardware to factory specs using a 16mm and 18mm.

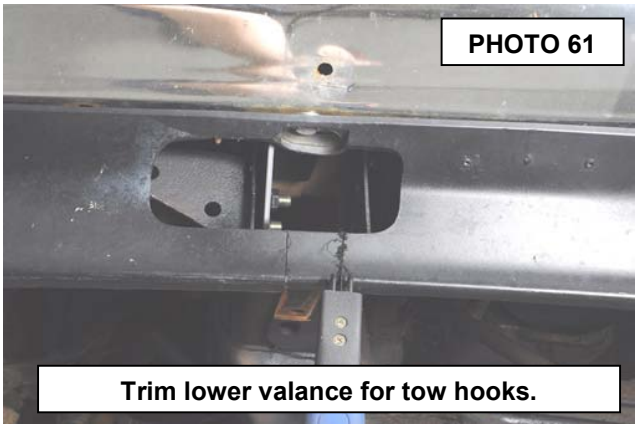


58. Torque the bumper to bracket bolts to 45ft/lbs using a 5/8 socket and wrench. **See Photos 59 & 60.**



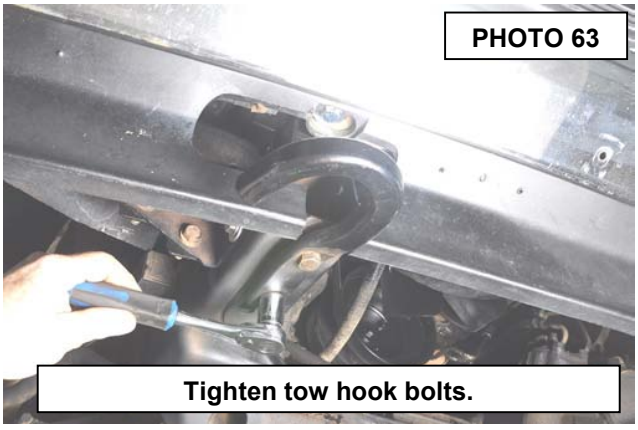


59. Using a reciprocating saw, trim the lower valance for the tow hooks. Sand or file the cut edges. **See Photo 61.**
60. Install the factory flag nut into the frame rail. **See Photo 62**.





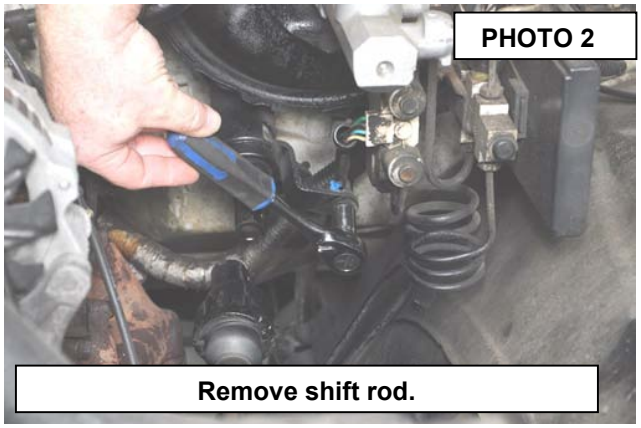
61. Install the factory tow hooks using the factory hardware. Torque to factory specs using an 18mm socket. **See Photo 63.**
62. Install the skid plate using the factory hardware.
63. Reconnect ground straps and front differential plugs.
64. Install the grille and side marker lights and housings.
65. Reconnect the battery. Positive cable may have to be adjusted to reach the battery.



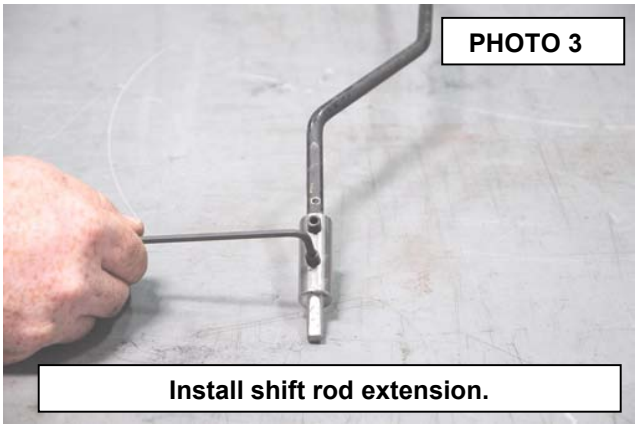
88-94 Shift Rod Extension

1. Mark the shift rod using a paint pen. **See Photo 1.**
2. Remove the shift rod from the steering column using a 13mm wrench and a pair of pliers to remove the cotter pin. Retain hardware for reuse. **See Photo 2.**





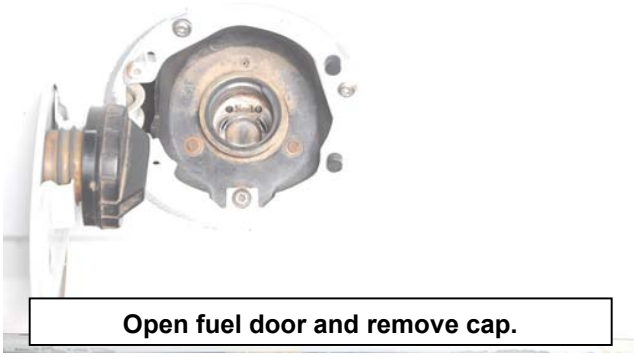
3. Install the supplied shift rod extension, the mark made in step 1. Tighten the supplied 5/16” set screws using a 5/32” Allen. **See Photo 3**.
4. Install the shift rod using the factory bolt and cotter pin.



BED INSTALLATION INSTRUCTIONS

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

PHOTO 1



Open fuel door and remove cap.

PHOTO 2



Remove fuel filler neck bolts.

2. Using an 8mm socket, remove the hose clamps from the fuel filler neck and remove the fuel filler hose from the truck. **See Photo 3.**
3. Using an 8mm socket, remove the ground strap from the bed. Retain hardware for reuse. **See Photo 4.**

PHOTO 3



Remove fuel hose clamps.

PHOTO 4



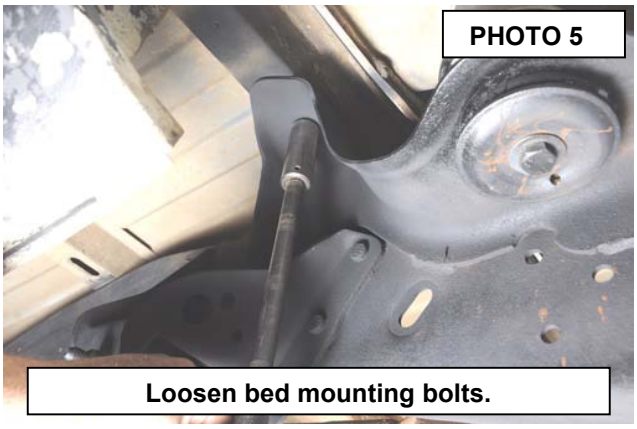
Remove the ground strap.

4. Remove the rear bumper from the truck.

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

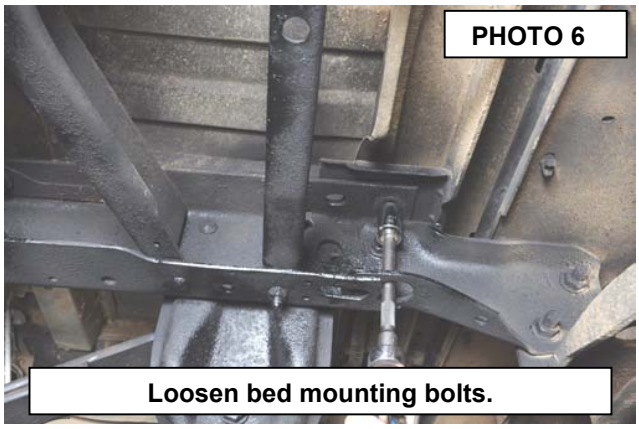
5. Using an 18mm socket, loosen all of the bed mounting bolts. **See Photos 5, 6, & 7.**

PHOTO 5



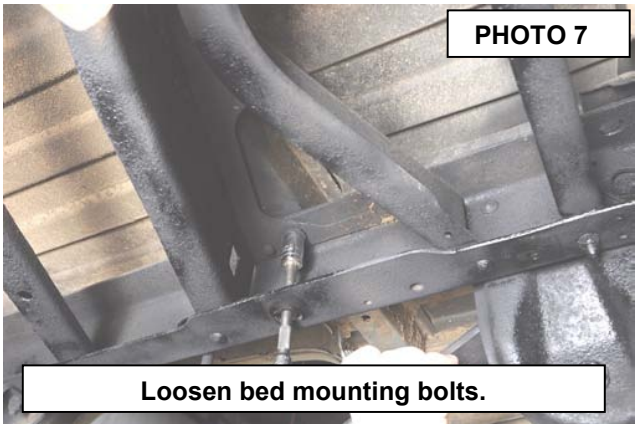
Loosen bed mounting bolts.

PHOTO 6



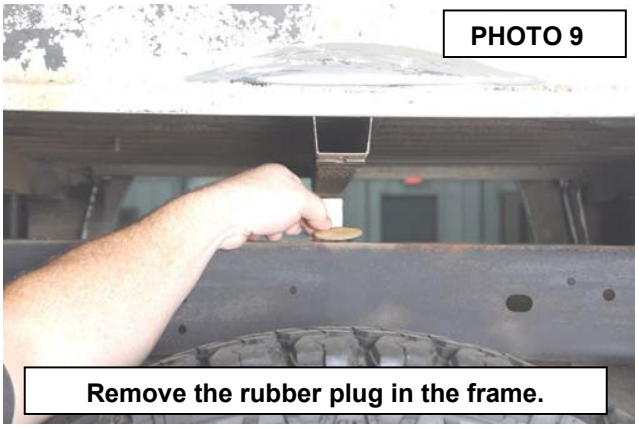
Loosen bed mounting bolts.

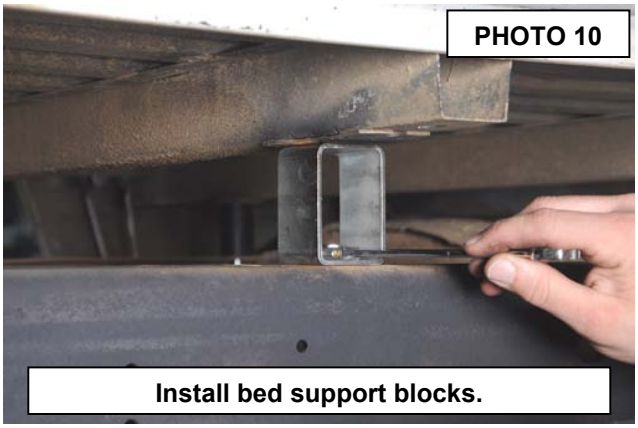
6. Using a jack, lift one side of the bed just enough to place the 3 x 2 body pucks between the frame and the bed using the supplied 12mm x 100mm bolts and washers. **Do not tighten at this time. See Photo 8.**



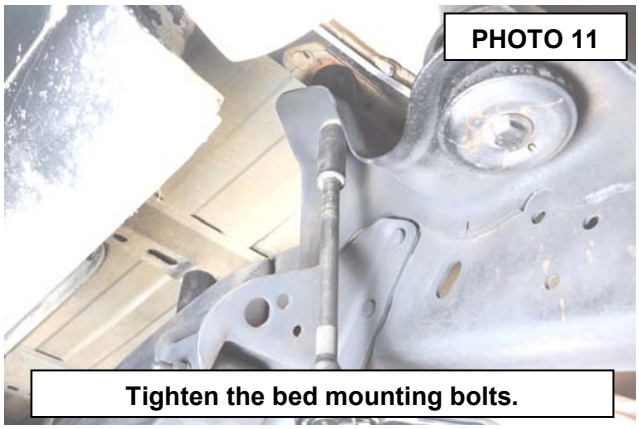


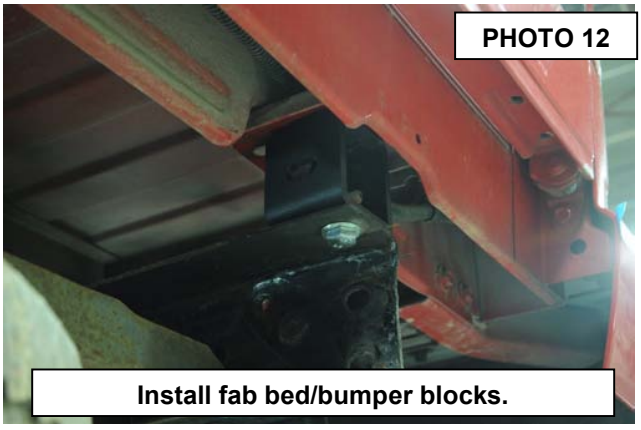
7. Remove the rubber plug in the frame, under the bed. **See Photo 9.**
8. Install the supplied support blocks under the middle of the bed using the self 5/16 self-tapping bolt and a 1/2" wrench. **See Photo 10**.



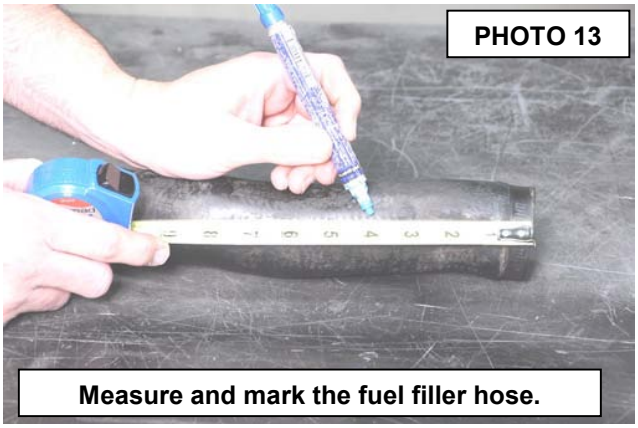


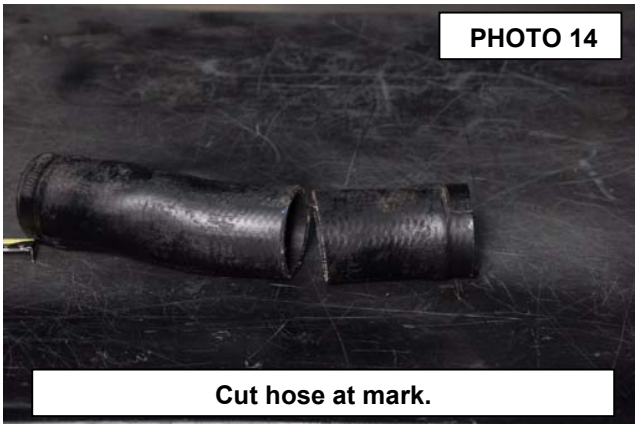
9. Repeat steps 4-7 on the opposite side of the vehicle.
10. Torque the bed mounting bolts to 55ft/lbs using a 19mm socket.. **See Photo 11.**
11. Install the supplied bumper mounts between the frame and the bed using the supplied 12mm x 100mm bolts. Torque to 55ft/lbs using a 19mm socket. **See Photos 12.**



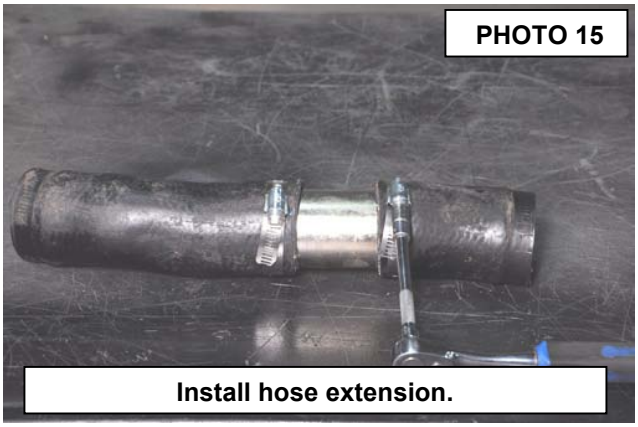


12. With the fuel filler hose off of the truck, measure and mark 4” from the side that the filler neck attached to. **See Photo 13.**
13. Cut the fuel filler hose at the mark made in step 10. **See Photo 14.**





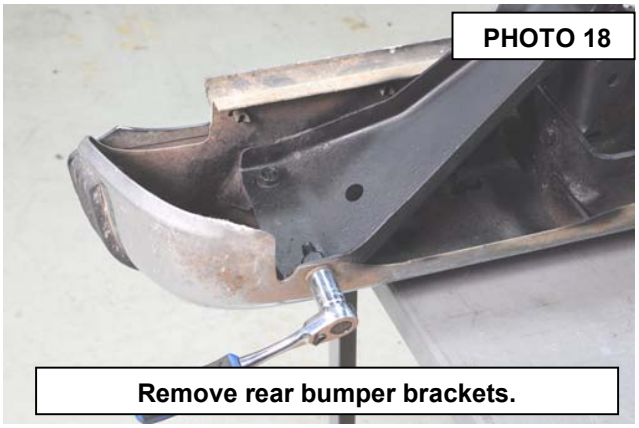
14. Install the supplied fuel filler hose extension approx. 1” into each piece of the fuel filler hose. Secure using the supplied clamps. **See Photo 15.**
15. Install the fuel filler hose and neck into the truck using the stock hardware. Use an 8mm socket for the clamps and a 10mm socket for the ground strap. **See Photo 16.**
16. Loosen the clamps on the vent tube and pull on the hose to get some slack to install the vent tube.
17. Attach the filler neck to the bed using the factory hardware and a 7mm socket to tighten.
18. Remove the hitch if equipped.



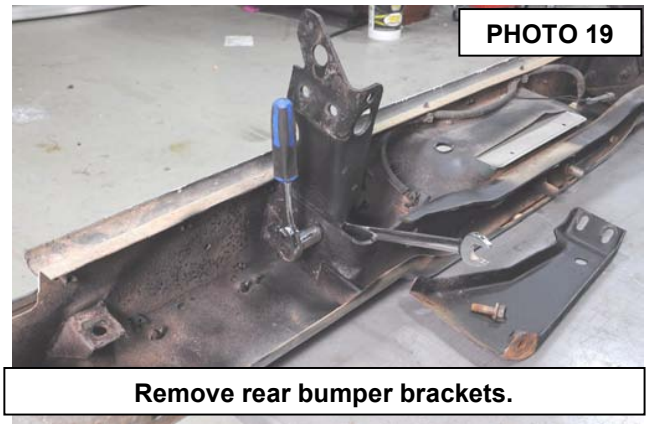


19. Unplug the license plate lights.
20. Using a 15mm and 18mm socket, remove the rear bumper mounting bolts. Retain for reuse. **See Photo 11.**
21. Using an 18mm socket, remove the side bumper brackets. Retain hardware for reuse. **See Photo 18.**

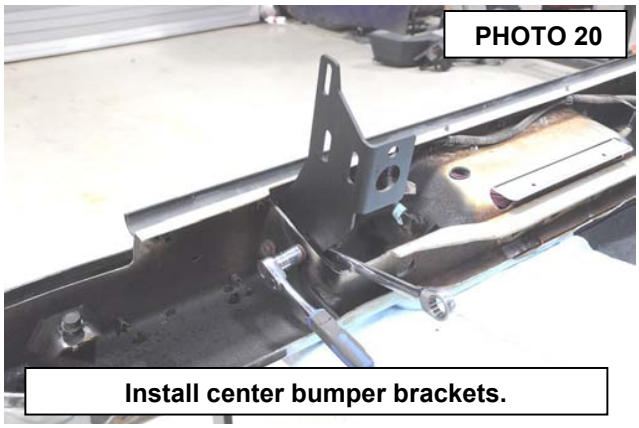




22. Using an 18mm socket, remove the center bumper brackets. Retain hardware for reuse. **See Photo 19.**
23. Install the supplied center bumper brackets on the bumper using the factory hardware. Slide the bracket all the way up and out then torque to factory spec using an 18mm socket. **See Photo 20.**



Remove rear bumper brackets.

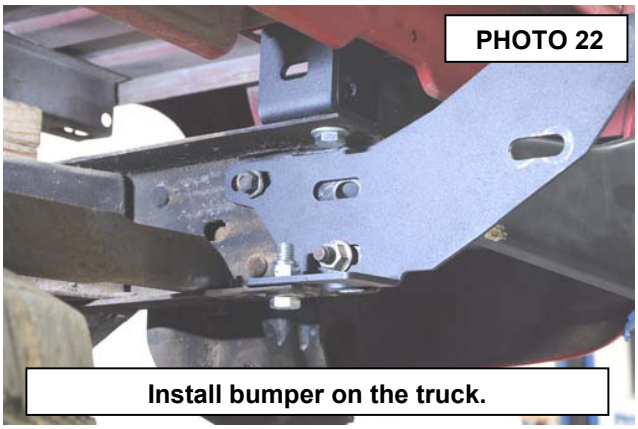


Install center bumper brackets.

24. Install the factory side bumper bracket using the factory hardware. **Do not tighten at this time. See Photo 21.**
25. Install the bumper onto the truck using the factory hardware. The top bolt will not be used. **See Photo 22.**

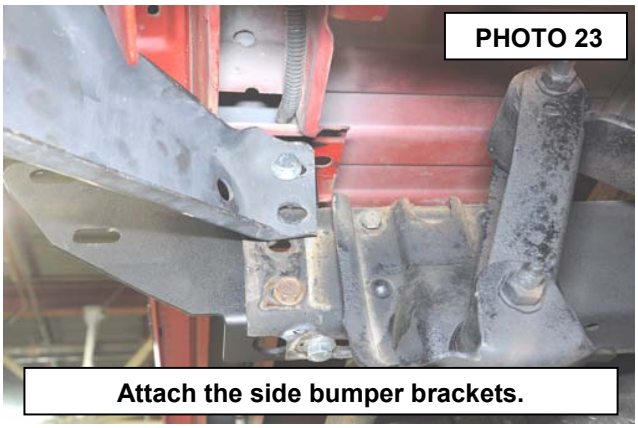


Install side bumper brackets.



Install bumper on the truck.

26. Attach the side bumper bracket to the fab body block using the supplied 1/2" x 1.25" bolts, washers, and nuts**. See Photo 23.**
27. Align the bumper and then tighten all hardware. **See Photo 24.**



Attach the side bumper brackets.



Align the bumper and tighten all hardware.

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
1-88-94 Shift Extension
4-Bed Crush Blocks
2-Frt Bumper Bracket Flag Nuts
1-Fuel Filler Hose Extension
2-Front Bumper Relocation Brackets
1-Driver Side Bumper Bracket
1-Pass Side Bumper Bracket
2-Rear Bumper/Bed Fabricated Blocks
1-Dr Side Rear Bumper Bracket
1-Pass Side Rear Bumper Bracket

RC703BAG Containing:

For Front Cab Mounts:
12mm x 180mm Bolts (8)
7/16” Flat Washers (8)
1.25” OD Flat Washers (2)- Radiator Support Mounts

For Emergency Brake Cable Bracket:
5/16” x 1” Bolt (2)
5/16” Washers (4)
5/16” Nylock Nut (2)

For Steering Extension:
3/8” x 1 1/2” Bolt (1)
3/8” Flat Washer (1)
3/8” Flange Lock Nut (1)

For Front Bumper Brackets:
7/16” x 1” Bolts (8)
7/16” x 1.5” Bolts (6)
7/16” Flat Washers USS (10)- Large OD
7/16” Flat Washers SAE (12)
7/16” Lock Washers (6)
7/16” Nylock Nuts (8)

For Bed Mounts:
12mm x 100mm Bolt (12)
1/2” Flat Washers (12)

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

For Rear Bumper:
1/2” x 1.25” Bolts (2)
1/2” Flat Washers (2)
1/2” Lock Nuts (2)

For Shift Extension:
5/16” x 5” Set Screws (2)

For Fuel Hose Extension:
Hose Clamps (2)

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



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