



## #C9315 Installation Instructions 2000-2005 Suburban/Tahoe/Yukon 1500 2/4wd 3" Body Lift

### Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

#### »» PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

#### »» TECHNICAL SUPPORT

*Live Chat* provides instant communication with Zone tech support. Anyone can access live chat through a link on [www.zoneoffroad.com](http://www.zoneoffroad.com).

[www.zoneoffroad.com](http://www.zoneoffroad.com) may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to [tech@zoneoffroad.com](mailto:tech@zoneoffroad.com) detailing your issue for a quick response.

**888.998.ZONE** Call to speak directly with Zone tech support.

#### Difficulty Level

easy 1 2 **3** 4 5 difficult

Estimated installation: 6 hours

#### Special Tools Required

Cut-off tool or reciprocating saw

#### »» PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

rev060313

## Kit Contents

Qty	Part
1	Bolt Pack (Rear Bumper)
1	Bolt Pack (Spare Tire)
1	Bolt Pack (Front Bumper)
1	Bolt Pack (General)
1	Bolt Pack (Body Mounts)
12	3"x3" Body Blocks
2	3"x2" Body Blocks (large hole)
3	Radiator Drop Bracket
1	Parking Brake Bracket
2	Front Outside Bumper Support Bracket
2	Oil Cooler Relocation Bracket
2	"L" Shaped Fan Shroud Bracket
2	Rear Bumper Retangular Washers
1	Rear Bumper Bracket (pass)
1	Rear Bumper Bracket (drv)
2	Rear Bumper Outer Support Bracket
1	Front Bumper Bracket (drv)
1	Front Bumper Bracket (pass)
2	3/8"x2" Transmission Cooler Spacers
1	Fuel Line Relocation Bracket
1	Spare tire mount bracket (rear)
1	Spare tire mount bracket (firt)
1	Steering Extension
1	Fuel Filler Extension 1" x 4"
1	Fuel Vent Extension 5/8" x 5"
2	#10 Hose Clamp
2	#20 Hose Clamp
4	Wire Ties
1	Loctite



## Installation Instructions

1. Remove negative battery cable, then positive battery cable from the battery. If equipped, the Supplemental Restraint System (airbags) will be deactivated when the battery is disconnected.

### » FRONT/UNDER HOOD

2. Remove the 7 plastic clips that mount the upper plastic core support cover to the core support **Figure 1**. Pull up on the center of the clip with a flat blade screw driver and then pull the clip out of the hole. Remove the cover from the vehicle. Retain clips and cover.



Figure 1

3. Remove the grill. Four Phillips head fasteners are located at the four corners of the grill face that require a quarter turn to release **Figure 2**. Remove the bolt at the top-center of the grill. Remove the grill from the vehicle by carefully pulling out the middle outside edges that are clipped in place.

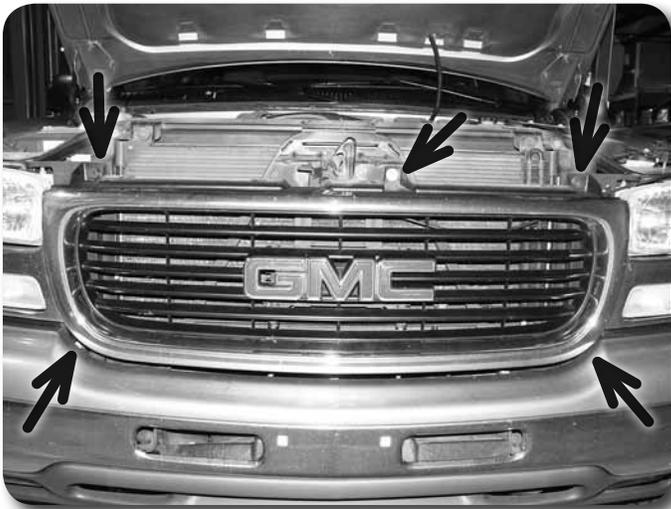


Figure 2

4. Remove the two bolts and two plastic clips mounting the transmission cooler to the core support **Figure 3**. Pull the cooler forward, free from the core support mount. Save hardware.

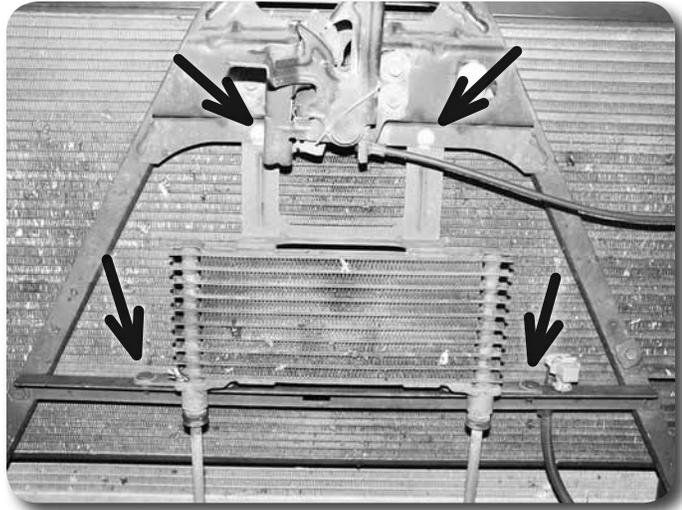


Figure 3

5. Remove the transmission cooler lines from the clips on the core support Figure 4.



Figure 4

6. Remove the air intake tube from the throttle body and the air filter box by loosening the hose clamps at each point. If equipped, remove the radiator hose clip that is attached to the middle of the air intake tube. Remove the intake tube from the vehicle.
7. Remove the bolts (2 or 4, depending on vehicle) mounting the top of the fan shroud to the core support Figure 5. Save bolts.
8. Pull up on the fan shroud to remove it from the bottom retaining clips. On some models, oils lines must be removed from retaining clips on the driver's side of the lower fan shroud.
9. Disconnect the ground strap from the driver's side firewall Figure 6. Save nut.



Figure 5

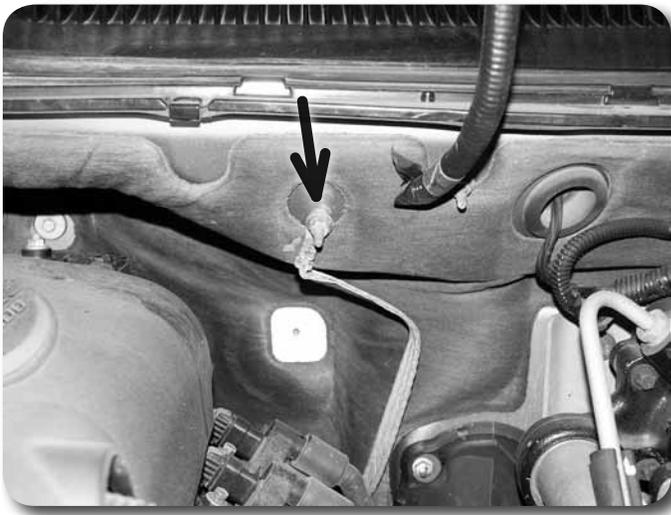


Figure 6

10. Lock the steering wheel. Locate the bolt that connects the upper steering column to the lower steering shaft **Figure 7**. Make a mark on each half for alignment during installation. Remove the bolt and separate the shafts by sliding the steering column up off the lower shaft. Save hardware.

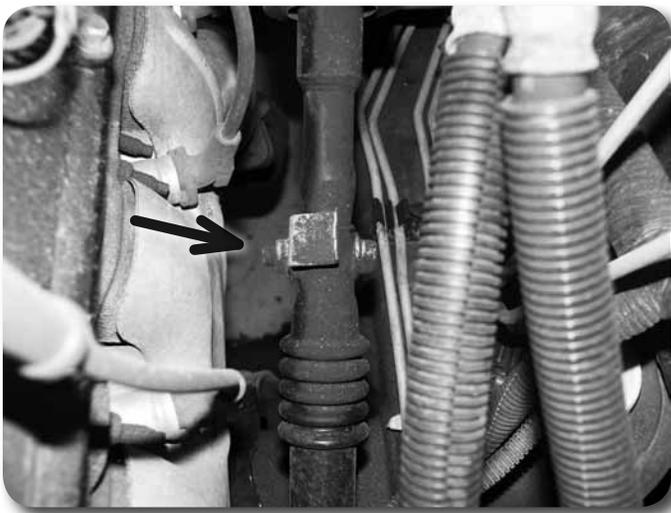


Figure 7

## » FRONT BUMPER

11. If equipped, disconnect the fog light wires from the light housings mounted in the front bumper **Figure 8**.
12. Remove the bolt (on each side) mounting the outside bumper support to the bumper. Remove the bolts mounting the support to the frame and remove the support **Figure 8**. Save the supports and hardware.

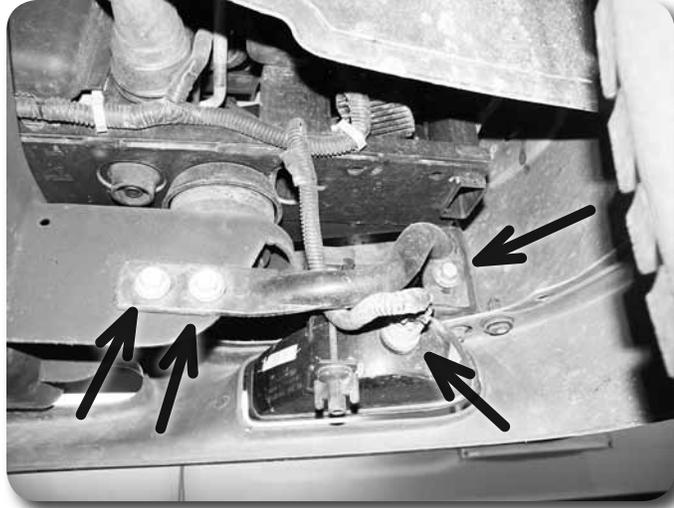


Figure 8

13. Since the grill was removed, the four inside bumper bolts (two on each side) can be accessed from above the bumper **Figure 9**. While supporting the bumper, remove the four bolts and separate the bumper from the vehicle. Save bumper mounting bolts.

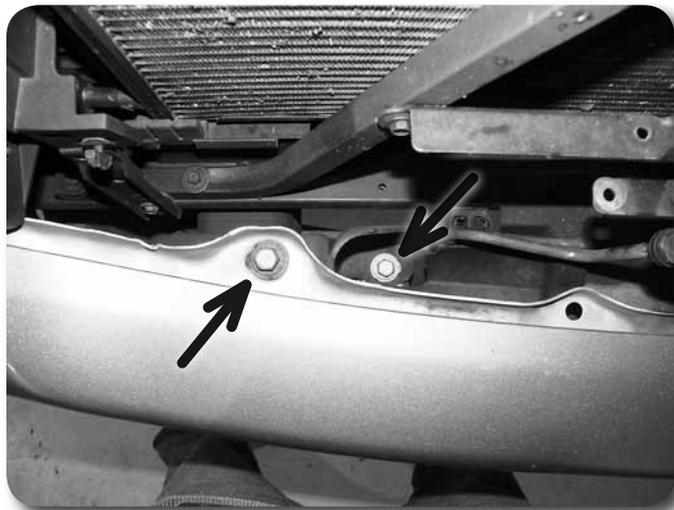


Figure 9

14. Locate the wire loom running along the bottom of the core support **Figure 10**. Remove the wire loom from the retain clips (approximately 4 total) and remove the clips from the core support. The clips will not be reused. Be sure that the lower portion of the fan shroud lip is clear from the bottom edge of the core support so it is able to drop while the body is lifted. If the vehicle is equipped with a front skid plate, removing the skid plate will aid in accessing the clips.



Figure 10

15. Locate the brake lines on the driver's side frame rail at the front driver's side wheel well. Remove the brake lines from the retaining clip **Figure 11**. Check for any other lines, hoses or wires in this area that may not have enough slack to compensate for 3" of lift. Mark these lines, hoses or wires and disconnect.



Figure 11

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## » **PARKING BRAKE CABLE**

16. Separate the parking brake cable at the coupler just below the driver's side door **Figure 12**. Pull on the cable to gain slack and clamp it off at the front. Remove the front half of the cable from the coupler. There will either be a tab or dimple retaining the end of the cable in the coupler flatten out the tab or dimple to remove the end.

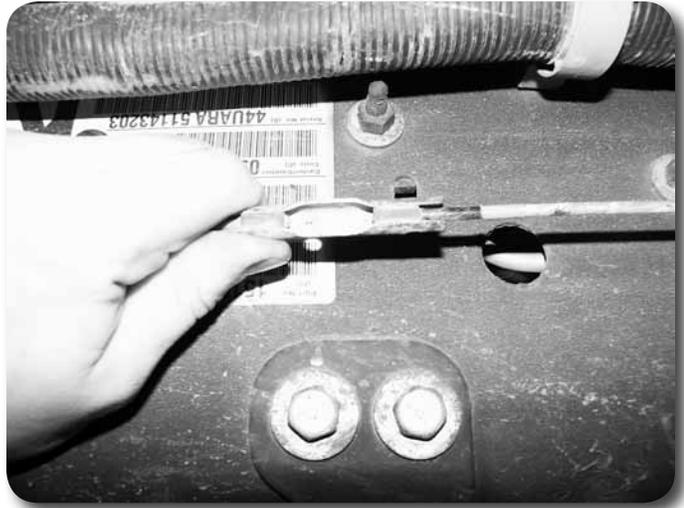


Figure 12

17. Remove the front half of the parking brake cable from the body mount. Compress the retaining tabs with pliers and push the cable through the hole Figure 13.



Figure 13

18. There is a ground wire(s) located next to the parking brake cable mounting hole. Disconnect the wires from the mount.

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### »» **TRANSMISSION**

19. Automatic Transmissions are cable actuated. Check for adequate slack before lifting. It may be necessary to remove one of the retaining clips that hold the cable to the floorboard under the carpet to obtain slack needed.
20. Manual transmission vehicles are equipped with a hydraulic clutch and require no modification

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### »» **TRANSFER CASE**

21. *Electronic Shift:* No modifications necessary.
22. *Manual Floor Shift:* Disconnect the shift linkage, located between the shift lever and the transfer case, from the lever.

23. *Manual Floor Shift:* Disconnect the fuel line bracket from the transfer case just behind the shift assembly. Loosen but do not remove the upper bolt. Remove the lower nut and pull the bracket free from the lower stud. Save hardware.

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## » FUEL FILL

24. Disconnect the fuel filler neck from the body by remove the 3 screws Figure 14. Save the screws.



Figure 14

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## » REAR BUMPER

25. Lower the spare tire to the ground and remove it from the vehicle.
26. Disconnect the license plate lights from the bumper Figure 15 and the license plate wiring harness from the retaining clips Figure 16.

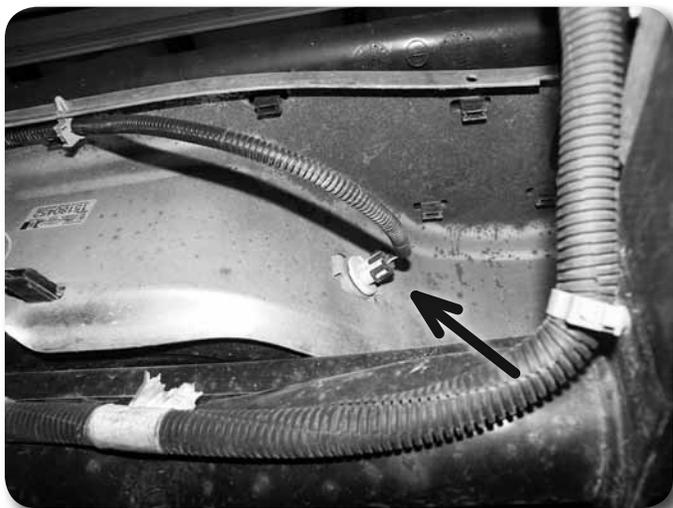


Figure 15



Figure 16

27. Remove the three outer bumper bracket bolts and one bottom mounting bolt (closest to the rear) on both sides **Figure 17**. If equipped, remove the two bolts mounting the bumper to the receiver and remove the bumper from the vehicle. Save all hardware.

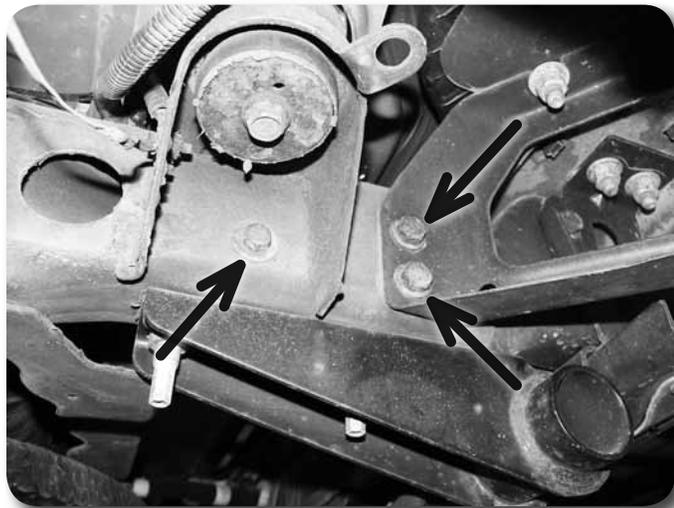


Figure 17

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### » LIFT BODY

28. Loosen but do not remove all body mount bolts. All mounting bolts thread up into the cab except the two front bolts which are mounted downward. The front bolts are accessed through a hole in the body.
29. Remove the passenger's side body bolts. Place two hydraulic jacks (with wooden blocks) under the passenger's side so that the weight is evenly distributed between the jacks. Slowly raise body, checking for any wires or hoses that may be binding or stretching. Lift the body just high enough to install the body spacers.
30. Use 12mm x 180mm bolts and 7/16" USS washers in the body mounts in combination with the factory body bushing assemblies. The front mount uses the thick 1-3/4" diameter washers on the bolt that is installed from the top through the access hole in the body. Fasten the front bolt with a 7/16" USS washer and

#### Step 30 Note

All new body mount hardware is located in hardware pack #213.

12mm nut along with the factory bushing assembly. Do not tighten body mount bolts at this time.

31. Repeat lift procedure for other side of vehicle.
32. Inspect the body to see that it is properly aligned on the frame. Remove each body one at a time and apply Loctite to the threads. Torque all body mount bolts to 65 ft-lbs

### Step 31 Note

If vehicle is equipped with step bars that mount off of the body mounts, longer mounting bolts may be required in those locations.

### "Front/Under Hood"

All hardware for this section of the installation is located in hardware pack #208.

## » FRONT/UNDER HOOD

33. Install the provided steering extension into the lower steering shaft and fasten with the factory hardware **Figure 18**. Leave loose. There is an internal alignment tab that must fit in the groove that is cut into the steering extension.



Figure 18

34. Install the upper steering column shaft into the extension and fasten with a 3/8" x 1-3/4" bolt, nut and 3/8" SAE washers. Torque the 3/8" and factory hardware to 35 ft-lbs.
35. Check the firewall ground cable for slack. It may be long enough to reattach with the factory nut. If more slack is required, install the provided 3" extension bracket (with 1/4" threaded stud) with the factory nut. Use serrated edge washer as shown to bite into the strap. Failure to do so may result in a poor ground. Attach the cable to the relocation bracket with a 1/4" nut and 1/4" USS washer. Torque the factory and 1/4" nuts to 15 ft-lbs **Figure 19ab**.

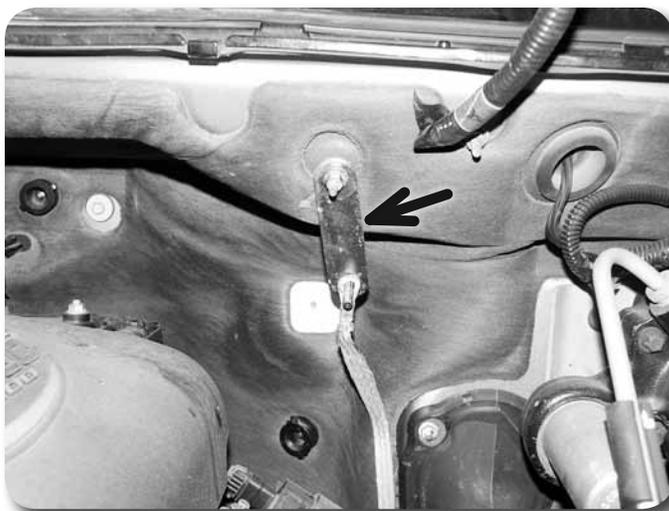


Figure 19a



Figure 19b

36. Install the 3" fan shroud relocation brackets (same as used for ground strap in last step) to the original shroud mounting holes using the stock bolts Figure 20.

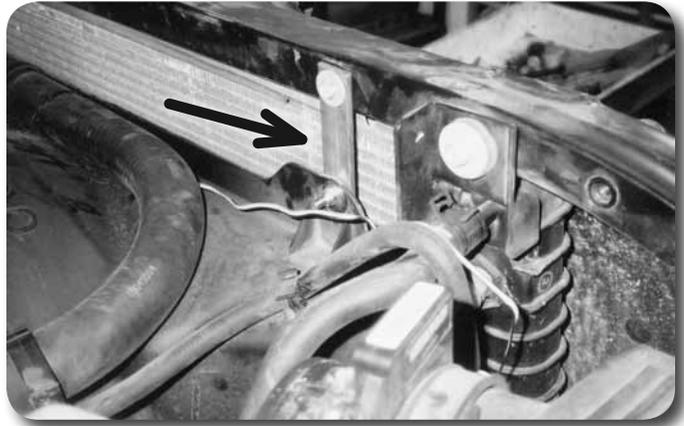


Figure 20

37. Mount the fan shroud on the relocation bracket studs and fasten with 1/4" nuts and washers.
38. Attach new wire loom clamps to the wire loom running along the bottom of the core support.
39. Mount the "L" shaped fan shroud relocation bracket and new wire loom clamps to the original wire loom clamp mounting holes using 5/16" self-tapping screws.
40. Using "L" brackets as templates, mark and drill two 5/16" holes in the fan shroud. Mount fan shroud to the brackets with 1/4" x 1" bolts, nuts and 1/4" USS washers Figure 21.

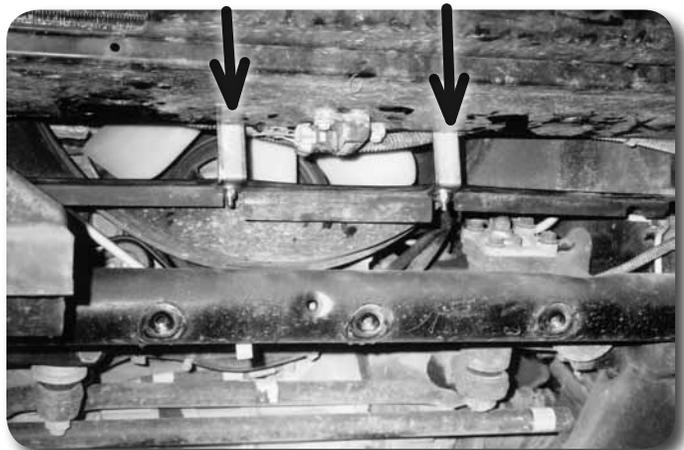


Figure 21

41. Check fan-to-shroud clearance.
42. Reattach the air intake tube to the throttle body and air filter box with the factory clamps. Tighten clamps securely. If equipped, reattach the radiator hose to the intake tube.
43. Carefully remove the two nut clips from the top of the transmission oil cooler, turn them around and reinstall so they are now facing the opposite direction **Figure 22**.

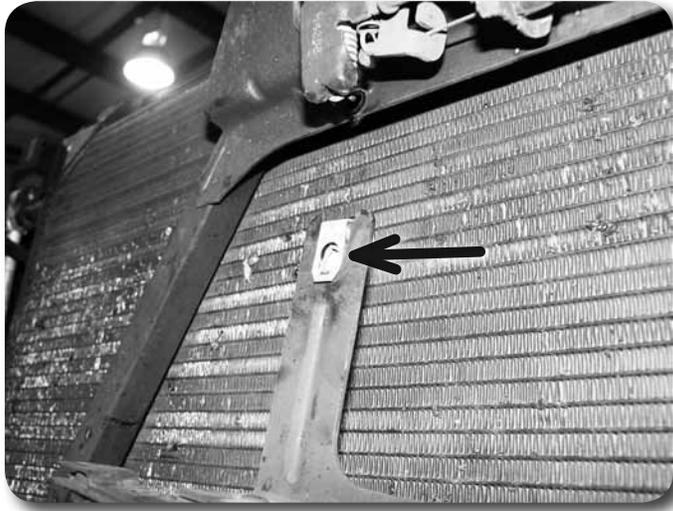


Figure 22

44. Attach the provided 2" relocation brackets to the cooler using the repositioned nut clips and factory bolts. The threaded stud on the relocation bracket should be facing out away from the radiator **Figure 23**. By sure the relocation brackets are vertical and torque the factory bolts to 15 ft-lbs.

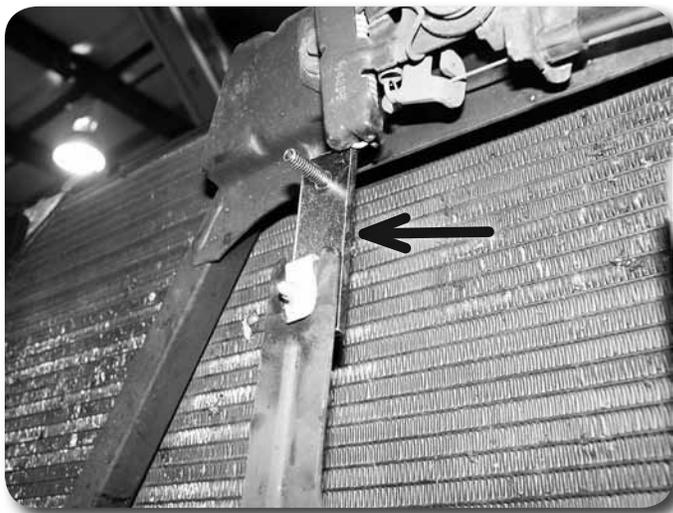


Figure 23

45. Attach the relocation brackets to the original cooler mount on the core support. Fasten the brackets with  $\frac{1}{4}$ " nuts and  $\frac{1}{4}$ " USS washers. Torque nuts to 15 ft-lbs.
46. Position the provided 2" oil cooler spacer sleeves between the two bottom oil cooler mounting tabs and the original mount on the core support **Figure 24**. Fasten the spacers and cooler to the core support with  $\frac{1}{4}$ " x 3" bolts, nuts and  $\frac{1}{4}$ " USS washers. Torque to 15 ft-lbs.

47. Mount the cooler lines back in the plastic retaining clip and the bottom of the core support Figure 24.

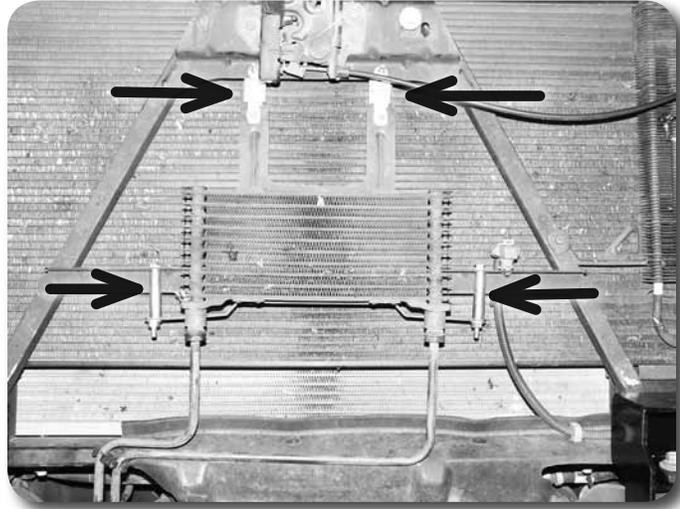


Figure 24

48. Reconnect any other lines, hoses, etc that were removed prior to lifting that were not outlined in the instructions.

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## » FRONT BUMPER

### "Front Bumper"

All hardware for the front bumper install is located in hardware pack #205.

49. Mount the provided outside support relocation brackets to the factory front bumper support brackets with 7/16" x 1-1/4" bolts, nuts, and 3/8" USS washers. Do not tighten at this time Figure 25.
50. Loosely mount the relocation brackets to the original bracket location on the frame using the stock hardware Figure 25.

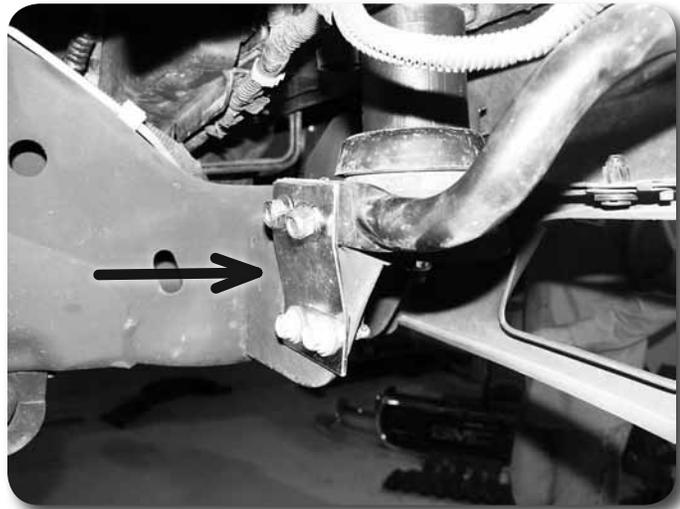


Figure 25

51. The factory front bumper mounts on the frame must be trimmed. Make a cut line on the front mounts that is inline with the inside surface of the frame rail Figure 26. Cut the bumper mount off along the line.

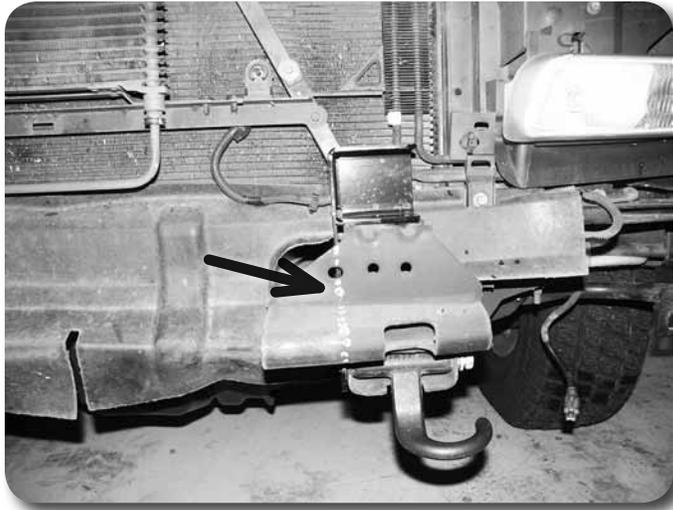


Figure 26

52. If the vehicle is equipped with front tow hooks, remove the tow hook mounting bolt bolts and remove the tow hooks from the frame. Save hooks and hardware.
53. Mount the new front bumper brackets to the factory upper bumper mount on the frame with the factory bumper bolt **Figure 27**. Leave loose. The brackets are driver's and passenger's side specific. For vehicles equipped with tow hooks, the lower portion of the bumper brackets will be attached when the tow hooks are reinstalled.



Figure 27

54. For vehicles not equipped with tow hooks, attach the lower portion of the new bumper brackets to the existing tow hook mounting hole in the frame. Use the provided  $\frac{1}{2}$ " x 1- $\frac{1}{4}$ " bolt, nut and  $\frac{7}{16}$ " USS washers to fasten the bracket.
55. Mount the bumper to the new brackets on the vehicle. Use the stock bolt to attach the lower bumper mount to the adjustable lower bracket. Attach the top mount to the bracket using  $\frac{1}{2}$ " x 1- $\frac{1}{4}$ " bolts, nuts and  $\frac{7}{16}$ " USS washers. Do not tighten at this time.
56. Attach the outside bumper supports to the bumper using the stock hardware. Do not tighten at this time.
57. Adjust bumper-to-body clearance and tighten all bumper and bumper bracket mounting hardware. Torque  $\frac{1}{2}$ " hardware to 65 ft-lbs,  $\frac{7}{16}$ " and factory hardware to 50 ft-lbs.

58. The front bumper valance must be trimmed to allow for clearance of the tow hooks. There are several ways to adequately trim the valance for clearance. One method that can be used is outlined below but it does not necessary have to be done this way. If the tow hooks are not reinstalled, follow the instructions on front bumper bracket installation for vehicles not equipped with tow hooks.
59. With the bumper mounted to the vehicle, measure up from the bottom of the valance approximately 4" in line with the notch in the frame where the hooks are mounted. At this location drill a hole with a 1-1/2" hole saw.
60. Once the bottom hole is cut, turn the drill so that the bit is perpendicular to the inner ledge of the valance where the frame is protruding out. Drill a hole in the ledge to remove the material just below the notch in the frame **Figure 28**.



Figure 28

61. Remove the valance from the bumper and slide the tow hooks in the holes that were just made. Reattach the valance to the bumper while guiding the hooks into place.
62. Secure hooks with stock hardware. It may be necessary to do some minor trimming to ensure the tow hooks do not rub against the valance **Figure 29**.



Figure 29

63. If equipped, reconnect the fog lights in the front bumper.
64. Install the grill on the vehicle in the reverse of how it was removed. In some cases, the grill will need to be trimmed to make room for the relocated oil cooler. Hold the grill up to the vehicle and check for clearance. Mark the grill if any trimming is necessary. Cut the material to make the necessary clearance.

65. Install the plastic core support cover on the top of the core support and fasten with the original plastic retaining clips.

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## »» PARKING BRAKE CABLE

66. Reroute the parking brake cable up over the cab mount.
67. Using the relocation bracket as a template, mark the two lower mounting holes on the frame cab mount bracket. Drill 3/8" holes and mount the bracket using 3/8" x 1" bolts, nuts and 3/8" SAE washers **Figure 30**.

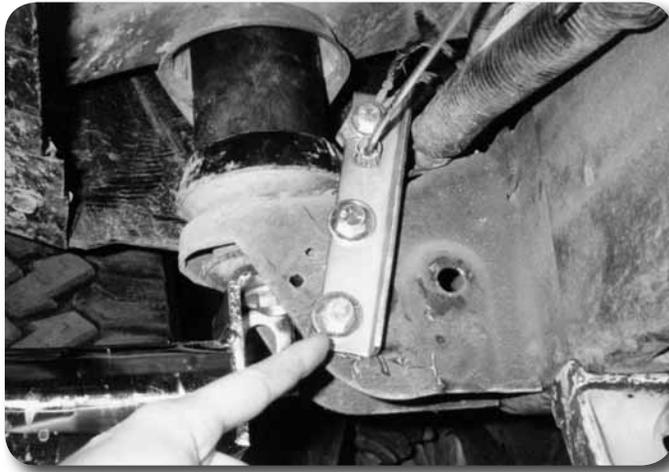


Figure 30

68. Run the parking brake cable through the large round hole in the bracket and push it through until the retaining clip locks in place.
69. Reconnect the front parking brake cable to the coupler. Adjust the parking brake cable using the adjuster thread measurements taken earlier.

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## »» FUEL LINE RELOCATION

*Manual Shift Transfer Case Only*

70. Swing the fuel line bracket out away from the lower stud and place the fuel line relocation bracket on the stud.
71. Using a 3/8" x 1-1/4" bolt, nut and 3/8" SAE washers attach the relocation bracket to the fuel line bracket through the lower mounting hole.
72. Tighten all mounting hardware.
73. Check the fuel lines to see that they are not binding or stretched. It may be necessary to carefully bend the fuel lines slightly.
74. Reconnect transfer case shift linkage to the shift lever.

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## »» FUEL FILL EXTENSION

75. Disconnect the fuel filler and vent hose from the fuel tank as well as any ground straps and remove the filler assembly from the vehicle.
76. Cut the rubber filler and vent hoses in half about 6" below the metal filler neck. Install the provided filler (1" x 4") and vent (5/8" x 5") hose extensions in the appropriate hoses along with the new hose clamps. Ensure there is an adequate amount of the extensions in the hoses and tighten the extension with the new hose clamps.

### Step 67 Note

Parking brake cable bracket hardware is located in hardware pack #208.

### Step 71 Note

Fuel line bracket hardware is located in hardware pack #208.

77. Reinstall the modified filler assembly in the vehicle **Figure 31**. Reattach the hoses to the fuel tank and the neck to the body with the factory hardware/clamps. Reattach any ground wires that were removed. Adjust the hose extensions as necessary.



Figure 31

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### » **SPARE TIRE WINCH RELOCATION**

78. Remove plastic guides for winch crank extension.
79. Remove spare tire winch, by removing 1 bolt, save hardware.
80. Trim tab near the mounting bolt hole from mounting plate as shown **Figure 32**.



Figure 32

81. Loosely install “C” shaped relocation bracket with the factory mounting bolt, mark 2 additional holes to be drilled: Drill to 3/8” **Figure 33**

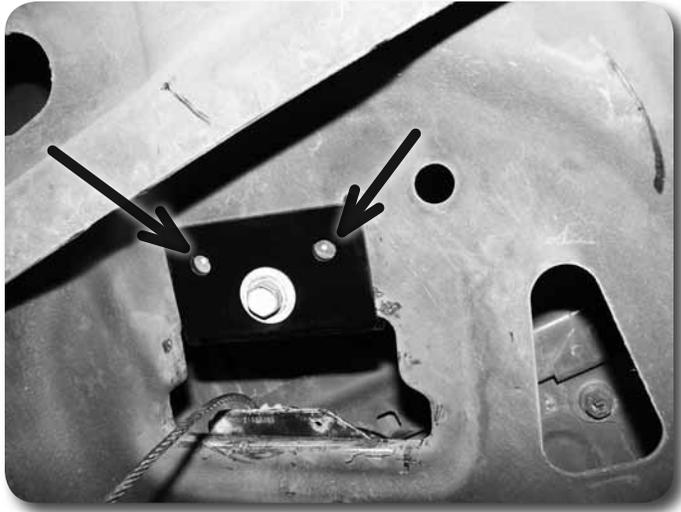


Figure 33

82. Turn to back of instructions sheet and cut out the template.
83. Remove the bracket and align the paper template with the holes. Mark the 2 additional holes to be drilled on the opposite side. Drill to 3/8". Figure 34

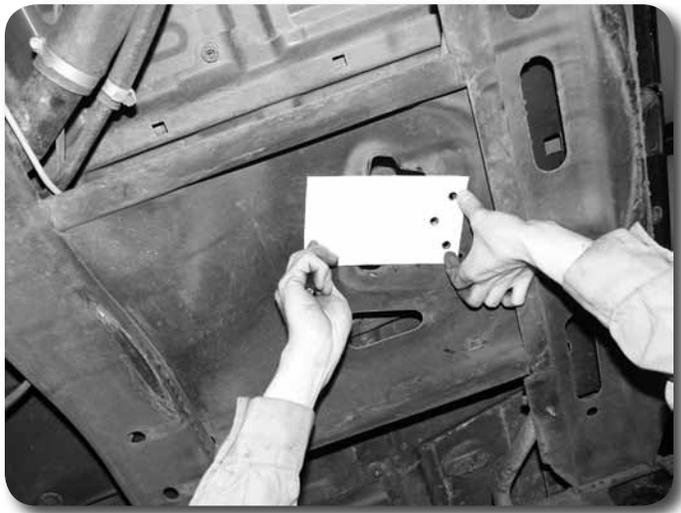


Figure 34

84. Reinstall the "C" shaped bracket with new 10mm x 20mm bolt and 3/8" bolts, washers, and nuts. Leave hardware loose at this time.
85. Place tire crank on top, and attach with 3/8" carriage bolt (with square neck), washer, and nut. Leave loose.
86. Slide new "L" shaped support bracket under the front side of tire crank. Attach bracket to the (2) new holes drilled earlier, attach with 3/8" hardware. Figure 35,36
87. Tighten 3/8" and 10mm hardware to 30 ft-lbs.
88. Reinstall plastic crank guides.

### Step 85-86 Note

Tire winch bracket hardware is located in hardware pack #204.

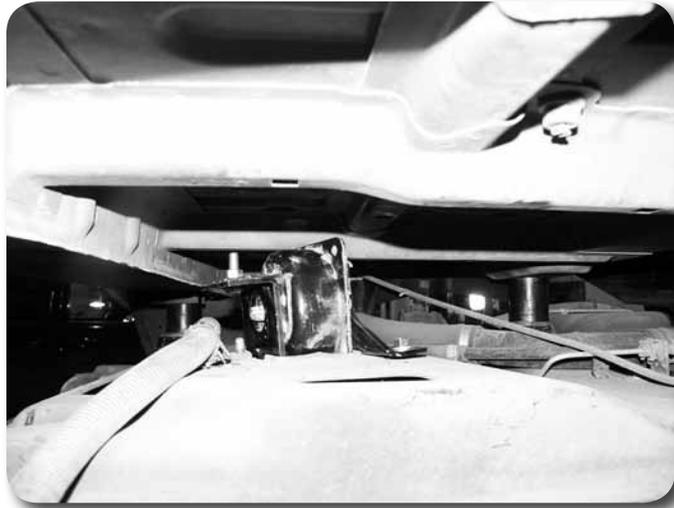


Figure 35

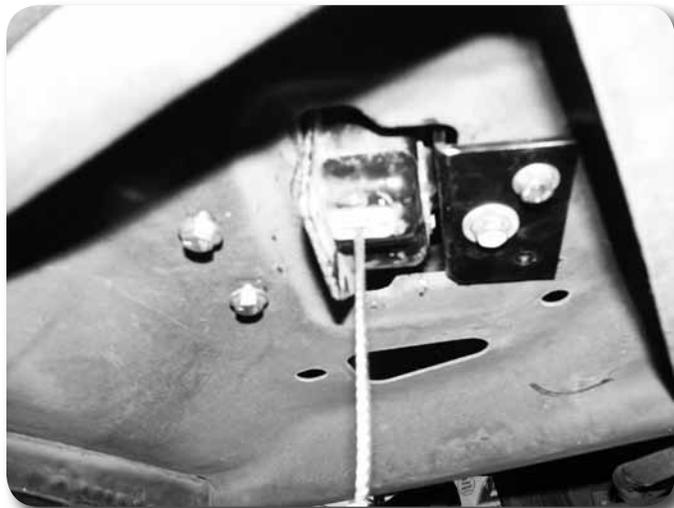


Figure 36

## Rear Bumper Install

All rear bumper hardware is located in hardware pack #201.

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### » REAR BUMPER

89. Remove the two bolts mounting each of the factory bumper brackets to the bumper and remove the brackets from the bumper Figure 37. Save hardware.



Figure 37

90. Install the provided rear bumper brackets to the bumper using the factory bumper mounting holes and hardware **Figure 38**. Leave hardware loose. The brackets will jog down toward the bottom of the bumper.

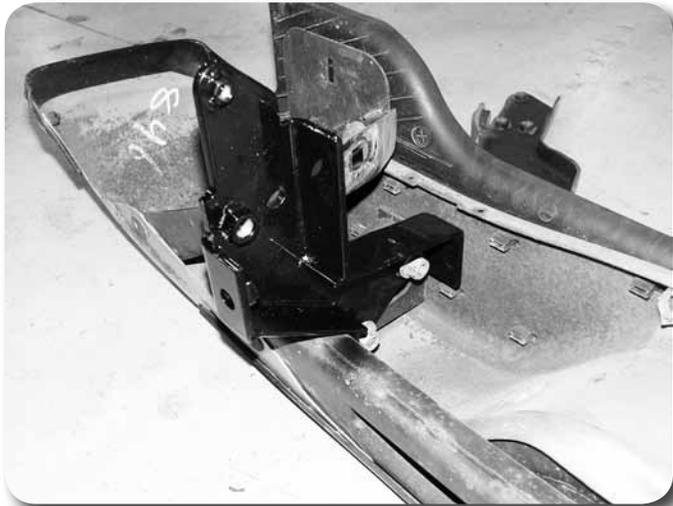


Figure 38

91. Remove the three nuts mounting each of the outer bumper support brackets to the bumper **Figure 39**. Remove the supports and save along with the nuts.



Figure 39

92. Install the bumper with the new brackets on the vehicle. Align the forward-most hole in the frame with the 3/8" welded nut on the brackets **Figure 40**. Loosely install a 3/8" x 1-1/4" nut and 5/16" USS washer. Use Loctite on the bolt threads.

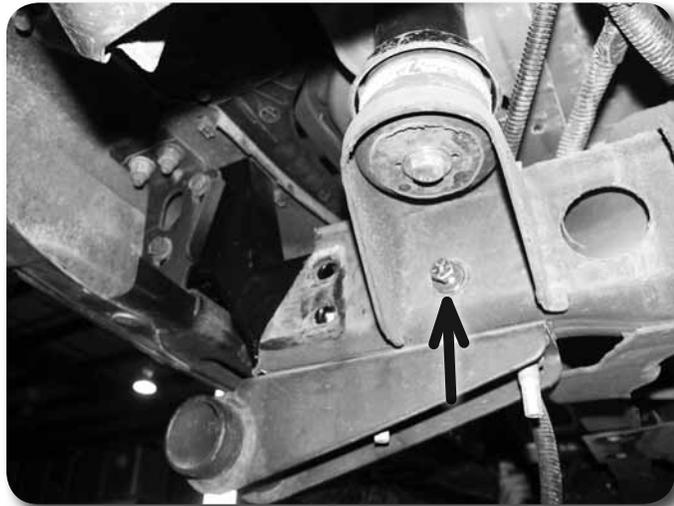


Figure 40

93. If equipped with a receiver hitch, position the two provided 3" tall x 2" diameter spacers between the bumper that the hitch **Figure 41**. Loosely fasten the bumper to the receiver through the blocks with 14mm x 110mm bolts and 9/16" USS washers. Use Loctite on the bolt threads.



Figure 41

94. Install one of the studs of the provided outside bumper support relocation brackets in the top-rear bumper bracket hole in the frame. Loosely fasten the bracket to the frame with a  $\frac{1}{2}$ " nut and  $\frac{1}{2}$ " SAE washer. The bracket should be positioned so that the bottom hole lines up with the lower hole in the frame and the top stud is point toward the outside of the vehicle.
95. Rotate the outside relocation bracket forward and install the factory outer bumper support bracket on the top relocation bracket stud **Figure 42**. The stud goes in the bottom hole of the factory bracket. With the stud in the hole, rotate the assembly back vertical while aligning the factory outside bracket with the three studs in the rear bumper. Once the factory bracket is in the bumper, reinstall the three original nuts. Leave hardware loose.

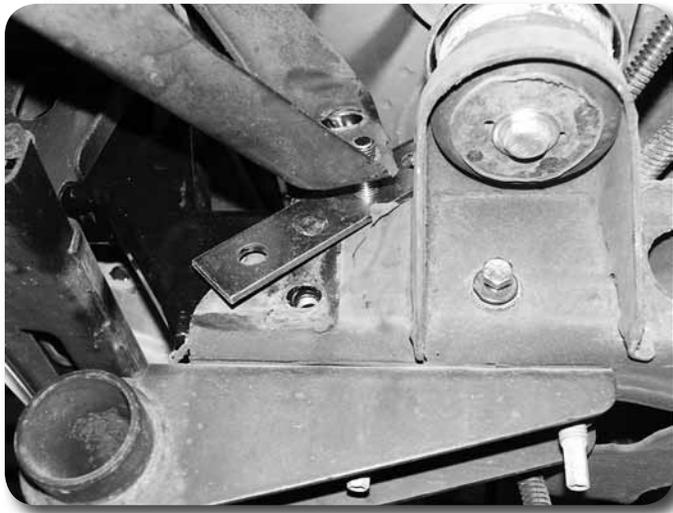


Figure 42

96. Install a  $\frac{1}{2}$ " x 1-1/4" bolt, nut and  $\frac{1}{2}$ " SAE in the top hole of the outside relocation bracket/factory outside bracket. Install a  $\frac{9}{16}$ " x 1-3/4" bolts (Loctite on threads) and  $\frac{9}{16}$ " SAE washer in the lower relocation bracket hole, through the frame and into the welded nut in the new bracket **Figure 43**. Leave all hardware loose.

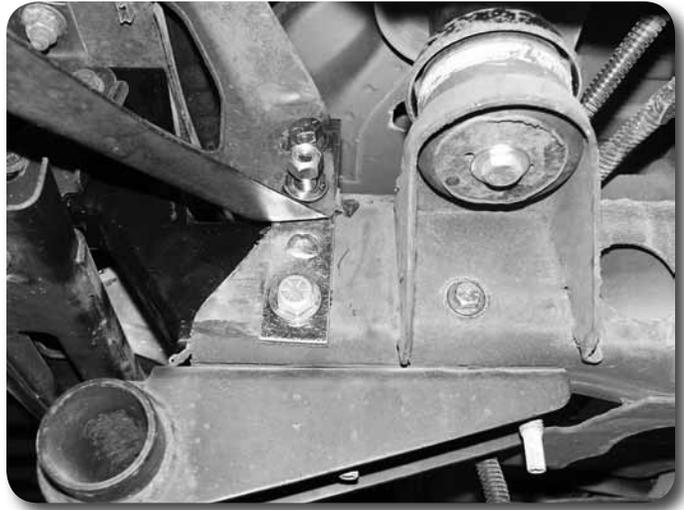


Figure 43

97. Install a 9/16" x 1-3/4" bolt and 9/16" SAE washer up through the bottom-rear hole in the frame into the welded nut in the new bracket. Apply Loctite to the bolt threads. Leave hardware loose.
98. Adjust the rear bumper to the proper location and torque all mounting hardware, starting with the bumper bracket-to-frame bolts. Torque hardware to the following specs: 1/2" and factory hardware 60 ft-lbs, 3/8" hardware 30 ft-lbs, 9/16" and 14mm hardware 85 ft-lbs.
99. Reinstall the spare tire to its stowed position.
100. Reconnect battery.
101. Check all hardware for proper torque.
102. Check hardware after 500 miles.
103. Adjust headlights.

## Post-Installation Warnings

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/replacement may result in component failure. Longer replacement hoses, if needed can be purchased from a local parts supplier.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 100 miles. Always inspect fasteners and components during routine servicing.

