



C9158 Installation Instructions 2016-17 Chevy/GMC 1/2 Ton 2WD & 4WD 1.5" 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

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to tech-zone@sporttruckusainc.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: 3-5 hours

Special Tools Required

Reciprocating Saw / Cut off Wheel
1/2" Drill

» 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.

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Important Verify you have all of the kit components before beginning installation.

Kit Contents

Qty	Part	Qty	Part
16	1.5" x 3" Body Block	2	.25" x .7" ribbed shank clip
2	Steel Bed Spacers	2	10mm x 1.50 lock nut
1	Front Bumper Bracket - DS	2	3/8 USS flat washer
1	Front Bumper Bracket - PS	2	14mm x 2.00 prevailing torque nut
2	Nut Tab	2	9/16 SAE flat washer
1	Ground Strap Extension	2	1/4"-20 x 1" self tapping bolt
1	Loctite	4	7/16"-14 x 1" grade 5 bolt
1	Rear Bumper Bracket - DS	16	7/16" USS flat washer
1	Rear Bumper Bracket - PS	4	7/16"-14 flange lock nut
1	Rear Bumper Step Spacer	1	1/4"-20 nylock nut
1	E-Brake Relocation Bracket	4	1/4" External serrated edge washer
1	Bolt Pack 249	2	5/16"-18 x 1" Grade 5 bolt clear zinc
6	14mm-2.00 x 170mm bolt	2	5/16"-18 prevailing torque nut clear zinc
2	12mm-1.75 x 160mm bolt	4	5/16" SAE Flat washer clear zinc
8	12mm-1.75 x 70mm bolt	2	12mm-1.75 prevailing torque nut clear zinc

INSTALLATION INSTRUCTIONS

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety.
2. Remove the negative battery cable first, then the positive battery cable. If equipped, the Supplemental Restraint System (airbags) will be deactivated when the battery is disconnected.
3. Measure and record the space between the front bumper and the body as well as the cab to the bed for reference during the installation.

FRONT

» FRONT DISASSEMBLY

1. Remove the 12 plastic retaining clips holding the upper core support cover to the core support **Figure 1**. Pull up on the center of the clips to unlock and then pull them out of the cover. Save the cover and clips.



Figure 1A

2. Remove the 4 bolts mounting the top of the grill to the core support. **Figure 2** Release the clips holding the top of the grill in place by gently pulling out on the top of the grill.



Figure 2

3. The lower and middle part of the grill clips into the core support. Be careful when removing the grill to not break the clips. Starting on the top pull up on the locking tabs near the bolt holes and slowly pull out on the grill. Try to pull near the compression clips to prevent the grill from bending / breaking. **Figure 3A** On 2018 models pull the grill outward by holding it near each clip. There is no tabs to lift like the earlier years. **Figure 3B**

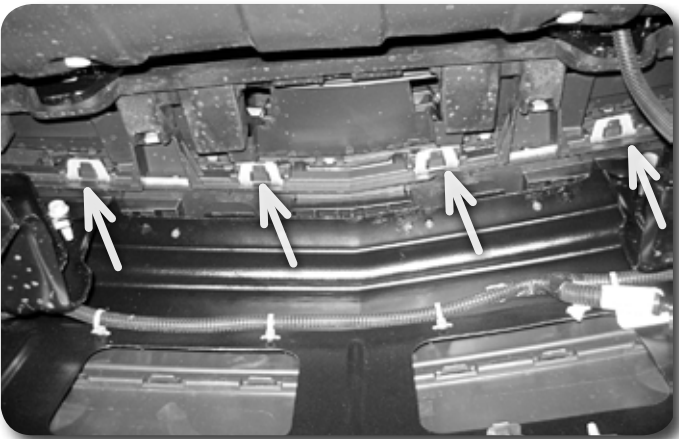


Figure 3A

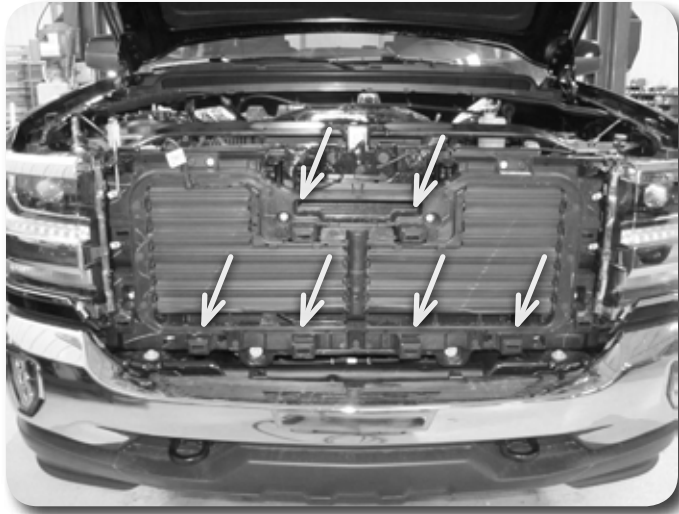


Figure 3B

4. Disconnect the main fog light wiring connector. Figure 4

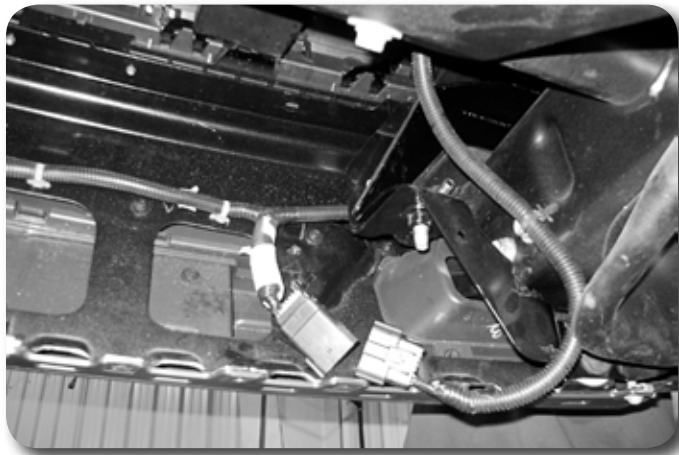


Figure 4

5. Disconnect the outer bumper supports from the bumper and frame Figure 5. Save hardware and supports.



Figure 5A

6. Mark and cut the front fender liner mount as in figure 5c. Ensure the mount will clear the Body mount guard tube but don't cut off the fender liner bolt retaining clip.



Figure 5C

7. Remove the four bumper bolts that mount the bumper to the frame brackets. Figure 6 Remove the bumper from the vehicle.



Figure 6- Pass. Side Shown

8. Make a small mark on each tow hook to indicate which side is up. Remove the tow hooks from the frame by removing the two (per hook) mounting bolts and plastic/foam covers. Figure 7 Save the mounting hardware and hooks.

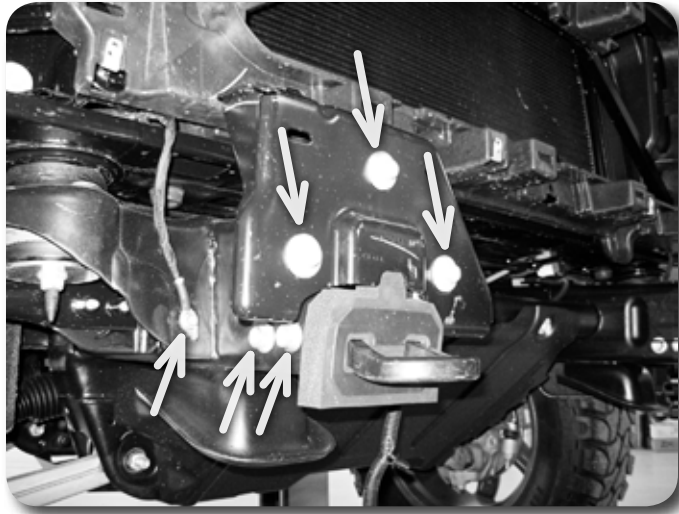


Figure 7

9. Note the orientation and remove the factory front bumper brackets from the frame horns **Figure 7**. Save all hardware.
10. Disconnect the ground wires from the passenger and driver side front body mounts brackets as well as the passenger side front cab mount. **Figure 8**. Disconnect the engine ground strap underneath the hood on the back of the engine bay on the driver's side. Save bolts.



Figure 8 - Pass. Front Cab Mount Shown

Step 11 Note

Unclip the cable from the frame on the driver's side inner fender and pull the cable all the way back to the inner fender. The cable will be reinstalled later.

11. Mark the position of the E-brake cable adjuster for later installation. Remove the nut from the E-brake cable adjuster bracket. Pull the E-brake cable back through the mount on the driver's side inner fender. Leave the cable loose at this time. **Figure 9**

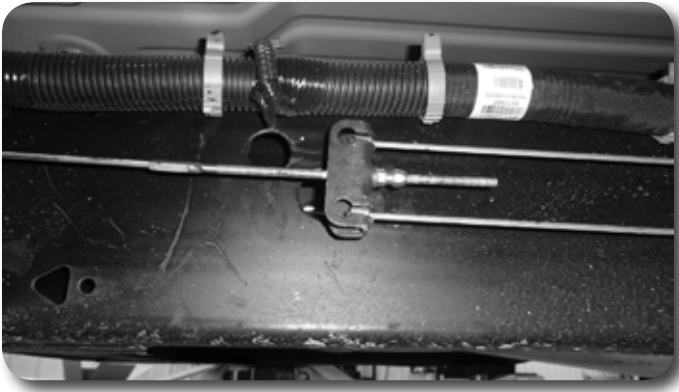


Figure 9

12. Remove the two bolts attaching the front of the inner fender to the inner fender supports on both sides of the vehicle. **Figure 10A** Remove the steel support rod that attaches to the inner fender support brackets. **Figure 10B** Discard the steel support rod it will not be reused.

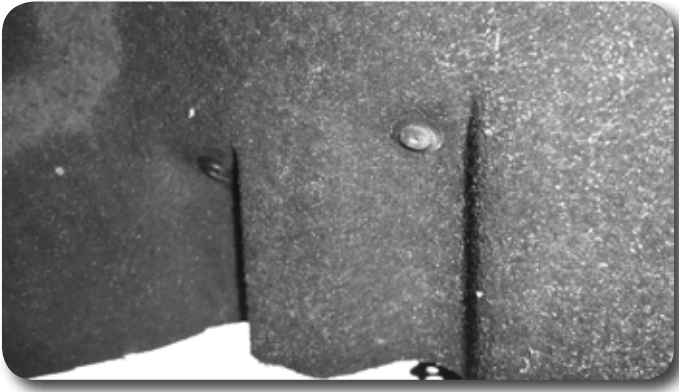


Figure 10A

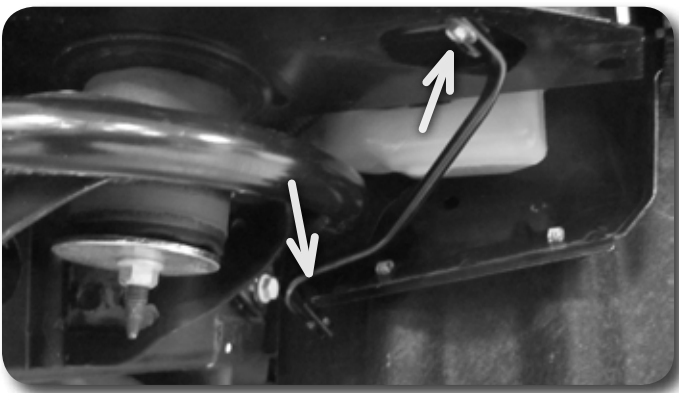


Figure 10B

13. Disconnect the Ground strap on the driver side fire wall in the Engine bay. **Figure 10C**



Figure 10C

14. Check for any other wires, hoses, etc that may not have enough slack for 1.5" of body lift. Disconnect or reroute these parts as necessary.

»» CAB LIFT

15. Loosen but do not remove all of the cab mount bolts. The front bolts run from the top down through the core support and are attached with a nut. The remaining bolts run from the bottom up into captive threads in the cab.
16. Remove the passenger's side cab (3) and core support (1) bolts. Remove the large factory washer for re-use on the new bolts. The front core support bolt needs to be pushed up into the core support and removed.
17. Using a hydraulic jack and block of wood, slowly lift the passenger's side of the cab. Continuously watch for lines, hoses, etc to be sure none are overextended. Lift the cab just enough to place the provided lift blocks between the body and the frame body mounts. Install the provided 1.5" tall blocks in the 3 cab mounts and core support mount.
18. Install 14mm x 170mm bolts at the 3 cab mount positions with the large factory washers. Install the provided nut tab into the factory core support mount making sure it is seated similar to the factory bolt tab. Install 12mm x 160mm bolt and 7/16" USS Washer at the core support. Leave hardware loose.
19. Repeat the lift procedure on the driver's side.
20. With the cab lifted, go back and remove each bolt and apply Loctite to the threads. Ensure the body is square on the frame. Torque all 14mm body mount hardware to 95 ft-lbs and the two front 12mm bolts to 65 ft-lbs.

»» FRONT ASSEMBLY

21. Install the ground strap extension on the ground strap in the engine bay with factory hardware and attach wire to bracket with 1/4" nut & washer. Use serrated edge washer as shown to bite into the strap. Failure to do so may result in a poor ground. Tighten to 10 ft-lbs. **Figure 11**

Step 16 Note

The head of the bolt has a tab to keep it from turning when tightened. The bolt may need to be rotated before it will push up and out of the core support.

Step 18 Note

All body/bed mount hardware is located in hardware pack #245



Figure 11

22. Reattach the ground wires that were removed from the front body mounts **Figure 8** below the core support and cab mounts. Torque bolt to 15 ft-lbs.
23. Locate the factory tow hook mount holes in the front of the frame rails. The driver's side of each frame rail will only have one tow hook hole. Measure straight back from the center of the existing hole $1\text{-}7/16$ " and mark. **Figure 12** Drill a $1/2$ " hole at the mark (one hole per frame rail).
24. Install tow hook upside down of how they were installed from the factory through the new $1/2$ " hole drilled in the previous step. Use factory hardware and torque to 65ft-lbs..

Step 22 Note

Additional slack from the wire harness may be needed to attach the ground strap.

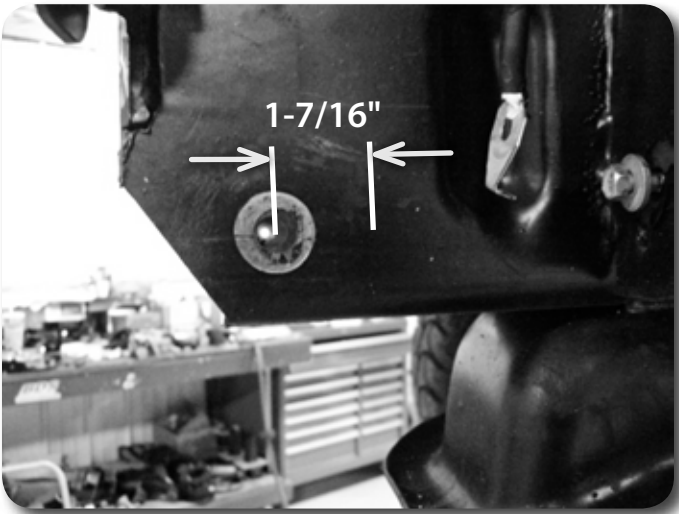


Figure 12

25. It is necessary to cut the front bumper frame mounts to provide clearance for the bumper in its raised position. Make a cut line even with the top of the lower weld nuts as shown in **Figure 13**. Using a suitable cut off tool, cut at the mark and down flush with the side of the frame **Figure 14**.

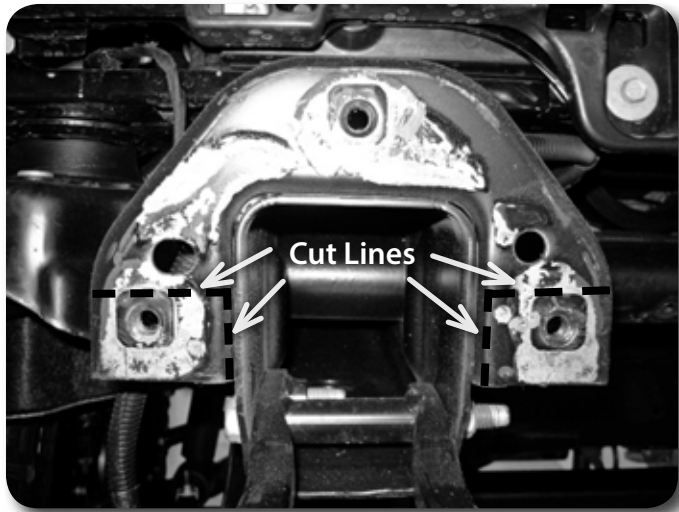


Figure 13

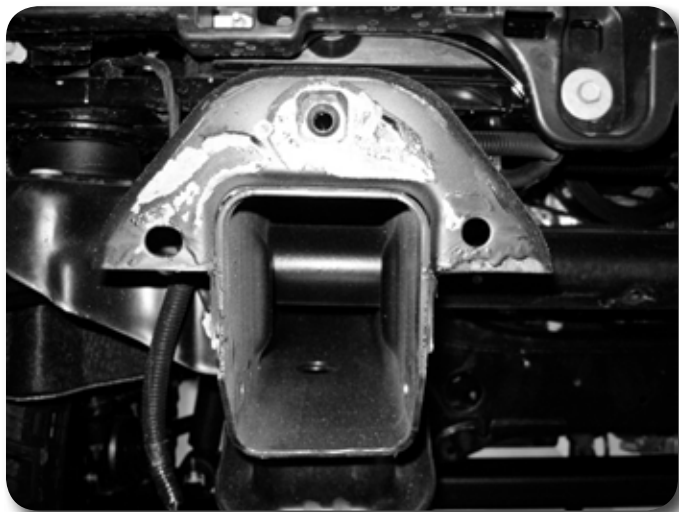


Figure 14

26. Install the new front bumper brackets with the provided 7/16" x 1" bolts, 7/16" USS Washers, and flange lock nuts on each side hole. Using the witness marks of the square hole from the factory bracket, line up the bracket and tighten the 7/16" bolts by hand to hold the position of the bracket. **Figure 15** Re-install the factory bolt at the center location and tighten all hardware.

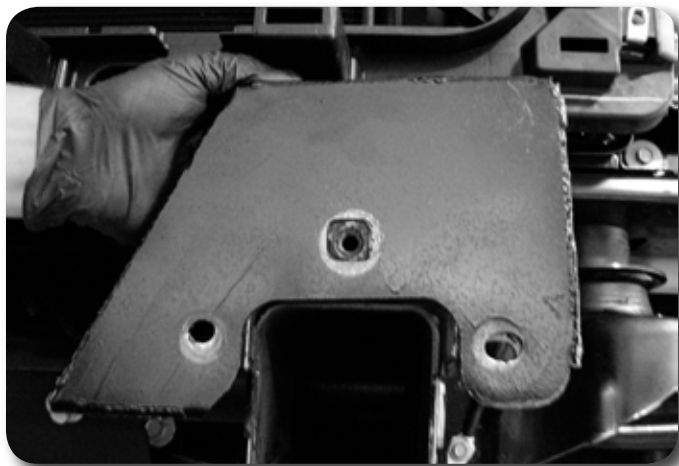


Figure 15

27. With the help of an assistant, install the bumper on the vehicle. Align the new brackets with the original bumper mount holes and fasten with the factory hardware into the factory weld nut on the bumper, as well as a 12mm nut and 7/16" USS washer and the factory bolt. Leave loose.
28. Adjust the bumper side to side and tighten the four main vertical bolts mounting the bumper to the bumper brackets. Torque bolts to 65 ft-lbs.
29. Swap the outer bumper supports to the opposite side of the vehicle re-install with the factory hardware. **Figure 5**
30. The inner fender supports will need to be trimmed to not interfere with the front crash tubes around the core support body mount. The inner fender support should currently be touching the front crash tube. Trim the inner fender support so that it is no longer touching the front crash tube. **Figure 16** .



Figure 16

31. Reinstall the two bolts connecting the inner fender to the inner fender support. Repeat the trimming on the other side of the vehicle.
32. Reconnect the fog light wire harness connector.
33. Install the grill by snapping it back into position and fastening it in place with the 4 factory bolts. Tighten the bolts securely.
34. Reinstall the upper core support cover with the 12 factory plastic retainers.
35. Run the E-brake cable on the top side of the body mount, in between the wire harness and body lift block. **Figure 17**



Figure 17

36. Insert the E-brake relocation bracket through the cable and up to the front body mount on the inner fender. Attach the E-brake relocation bracket to the two factory holes on the frame with the two provided 5/16" x 1" bolts, 5/16" washer, and 5/16" nuts. **Figure 18** Make sure the cable snaps into the new relocation bracket.

Step 27 Note

The 12mm and 7/16" USS washers are in Bolt Pack 249.

Step 30 Note

Trim approximately 1/2" from the bolt hole on the inner fender support

Step 35 Note

It may be easier to remove some of the inner fender hardware in order to install the E-brake cable.

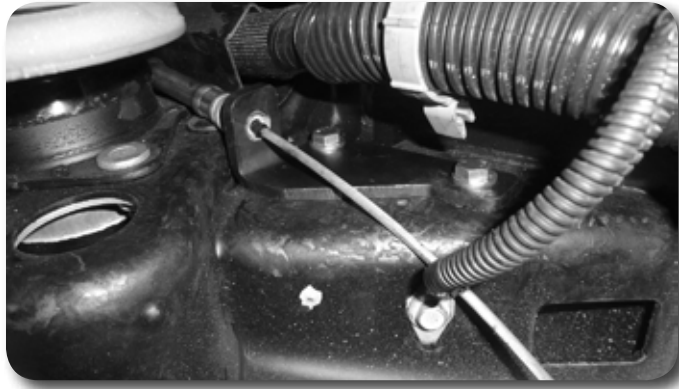


Figure 18

37. Route the cable back through the factory holes on the frame to the factory E-brake cable adjuster bracket. Attach the cable to the E-brake cable adjuster bracket with the factory hardware. Tighten the cable to the mark made in the previous step. Test the E-brake and adjust the cable as necessary.

Step 1 Note

The two rear bolts on each side can be accessed through the bottom of the frame rail.

Step 2 Note

When lifting the passenger's side of the bed, watch the clearance between the rear bumper and the driver's side of the bed.

REAR

1. Loosen but do not remove all bed mounting bolts. All the bolts mount from the bottom up into captive nuts. There will be 3 or 4 bolts per side depending on the bed configuration.
2. Remove the passenger side bed mounting bolts. With a hydraulic jack and block of wood, slowly raise the bed just high enough to place the provided lift blocks between the frame and the bed. Place the blocks at the bed bolt locations. Loosely fasten the bed with 12mm x 70mm bolts and 7/16" USS washers.
3. Repeat the bed lift procedure on the driver's side.
4. Remove the plastic bed pads **Figure 19A** where the bed crossmember rested on the frame at the rear wheel well (one per side). Install the provided rectangular steel bed spacers where the plastic pads were located and fasten with the ribbed shank plastic clips in the existing frame hole and reinstall the plastic bed pads on top of the rectangular steel spacer. **Figure 19B**.

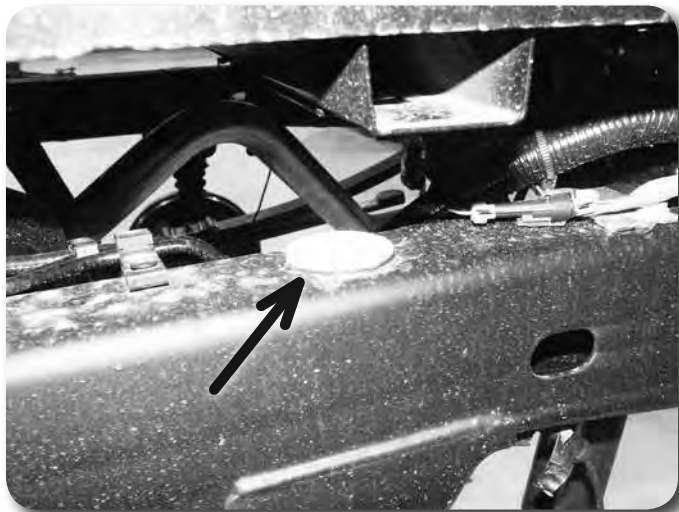


Figure 19A



Figure 19B

5. With the bed lift complete, go back and remove each bolt one at a time and apply Loctite to the threads. Adjust the bed to cab clearance and torque bolts to 65 ft-lbs.

» REAR BUMPER LIFT

6. Lower the spare tire and remove it from the vehicle. See vehicle owner's manual for spare removal procedures.
7. Locate the rear wire connector cluster on the rear, driver's side frame crossmember Figure 20. Disconnect the license plate light harnesses.



Figure 20

8. Disconnect the trailer wiring connector from the bumper Figure 21.



Figure 21

9. Remove the 4 bolts (8 total) mounting the rear bumper to the frame rails. 3 are accessed from the side of the frame Figure 22A and one up through the bottom Figure 22B. Remove the bumper from the vehicle. Save all hardware.

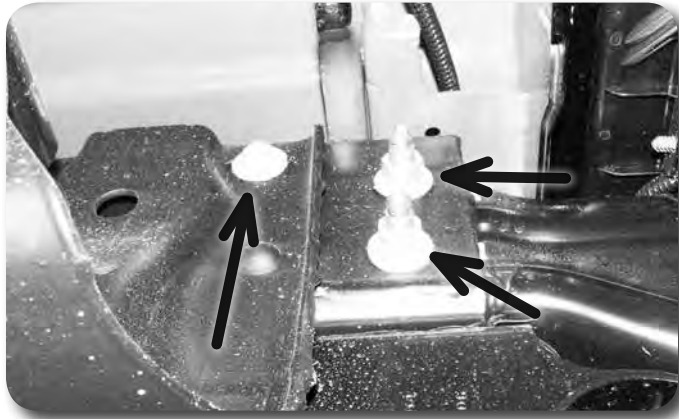


Figure 22A



Figure 22B

Step 10 Note

The next steps outline how to remove the various clips, screws, and tabs attaching the bumper cover to the bumper. Depending upon the bumper style, (chrome vs paint matched) different steps must be taken to remove the bumper cover.

10. Remove the factory bumper brackets from the rear bumper. The top bumper cover will need to be removed to access the bolts for the factory bumper brackets.

Figure 23 It is easiest to start on one side of the bumper and work towards the other side, remove clips, screws, and tabs along the way.



Figure 23

11. The black caps on the inside of the bumper will have to be removed by releasing the plastic clips. Figure 24

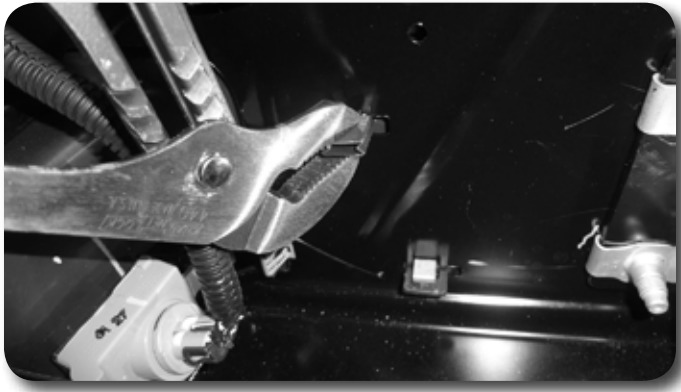


Figure 24

12. Depending upon the model and bumper style, the bumper cover on the back of the bumper may also need to be removed if the top bolts from Figure 23 cannot be accessed. To do this the trailer wiring connector must be removed from the bumper. This can be done by depressing the clips on each side of the connector on the back side. Figure 25 Along with the trailer wiring connector, the spare tire tube must be removed. The metal flanges will need to be bent up to remove the spare tire tube. Figure 26



Figure 25



Figure 26

13. The license plate light and clips will also need to be removed. Figure 27

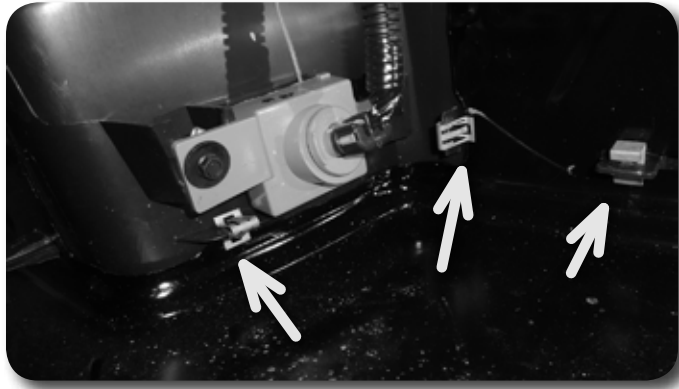


Figure 27

14. At each end of the bumper the screws will need to be removed attaching the plastic bumper cover to the steel bumper. Figure 28

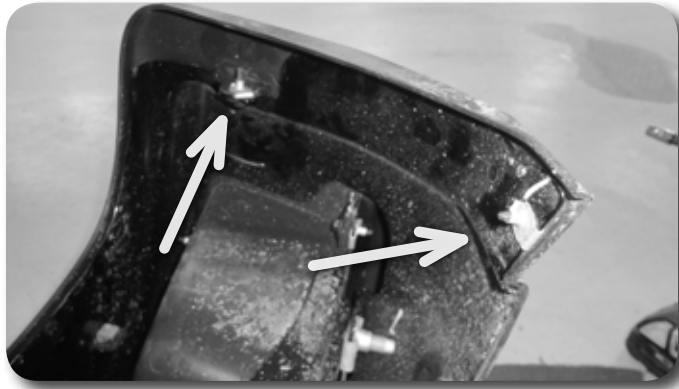


Figure 28

15. Replace the brackets as they were removed with the Zone bumper brackets using the factory hardware. Figure 29.

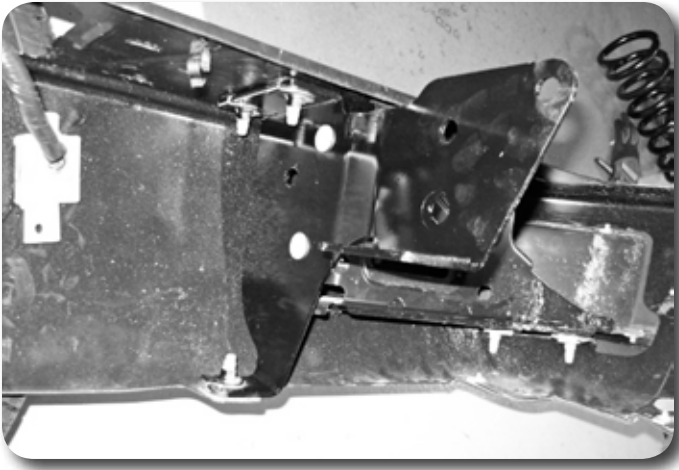


Figure 29

16. Reinstall the bumper cover with the factory hardware and clips. Reinstall the trailer wiring connector and spare tire tube and lock then into place.
17. Remove tab and clearance above it slightly (approximately 1/4") with a rotary grinding tool to create extra clearance for the spare tire winch tube. **Figure 30**



Figure 30

Step 17 Note

Use caution to not create any sparks near the fuel tank.

18. Install the provided 1.5" center bumper step spacer using the 1/4" self tapping bolts through the factory holes.
19. Install the rear bumper with the new mounts in the vehicle **Figure 31**. Be sure the new brackets are inside the frame rails and the spare tire winch tubes align **Figure 32**. Fasten the bumper to the original frame mount holes with the factory bolt tab and nuts. Fasten the bracket through the front-upper hole with the original 10mm bolt and provided 10mm nut and 3/8" USS washer. Fasten the bracket through the lower hole in the hitch (if equipped) with the original 14mm bolt and provided 14mm nut and 9/16" SAE washer. Leave hardware loose.

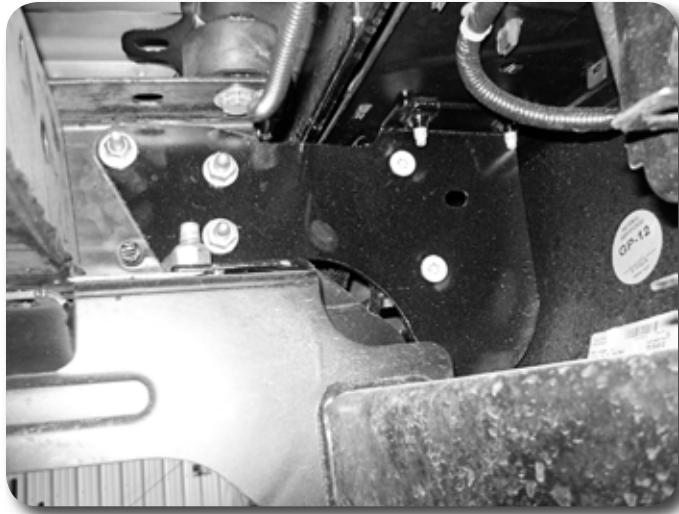


Figure 31



Figure 32

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.

20. Tighten all bumper mounting hardware starting with the bumper-to-bracket hardware first. Torque the hardware to the following specs: 12mm hardware – 65 ft-lbs, 14mm hardware – 95 ft-lbs, and 10mm hardware – 40 ft-lbs.
21. Reconnect all bumper wiring.

Post-Installation

1. Check all hardware for proper torque.
2. Check hardware after 500 miles.
3. Reconnect battery.
4. Adjust headlights