

Z1 D41 FRONTIER BODY LIFT INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2022+

Nissan Frontier (D41)

PROLOGUE:

Study these instructions completely before proceeding to assembly. The installer must have a thorough knowledge of automotive systems operation. If unfamiliar with any of the concepts outlined in this instruction, we recommend the installation be completed by a qualified professional.

WARNING!

Extreme caution should be taken when performing maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding installation or the various components included with the Z1 Off-Road D41 Frontier Body Lift Kit, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

PARTS INCLUDED:

| Item | Quantity | Description |
|------|----------|---------------------------------|
| 1 | 12 | 2" Spacer |
| 2 | 2 | Rear Bed Riser |
| 3 | 2 | Front Bed Riser |
| 4 | 8 | M12 Washer |
| 5 | 6 | M12 x 1.25 Hex Bolt, 170mm |
| 6 | 2 | M12 x 1.25 Hex Bolt, 220mm |
| 7 | 4 | M10 x 1.25 Flanged Head Screw |
| 8 | 1 | Extended Radiator Hose |
| 9 | 1 | Tailgate Finisher |
| 10 | 2 | Front Bumper Relocation Bracket |

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extensions
- Assorted Metric Sockets
- Assorted Metric Wrenches
- Torque Wrench

SAFETY REQUIREMENTS:

- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Always turn the ignition to the OFF position and disconnect the NEGATIVE battery terminal.
- Only operate drivetrain in safe space and well-ventilated areas.

BEFORE YOU BEGIN:

Remove contents from the Z1 Off-Road D41 Frontier Body Lift Kit and verify that ALL necessary hardware is present.

Use of a Lift is **HIGHLY** recommended for this installation.

PROCEDURE:

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Loosen lug nuts on all (4) four wheels.
3. Using (4) four Jack Stands or a Lift, support the truck on the Front Subframe and the rear of the Frame Rails.
4. Remove the wheels from the vehicle.
5. Drain and properly dispose of engine coolant.
6. After the Radiator has been fully drained, remove the OE Radiator Hose. Retain the OE Hose Clamps, they will be reused. *Figure 1.*



Figure 1

7. Remove the Front Mud Guards, these are held on by (3) three screws each. Retain this hardware. *Figure 2.*



Figure 2

8. Remove the Front Fender Liners. These are held on by an assortment of plastic pins and (2) two screws behind the lip of the Fender Flare. Retain this hardware. *Figure 3* shows some of the mounting points.

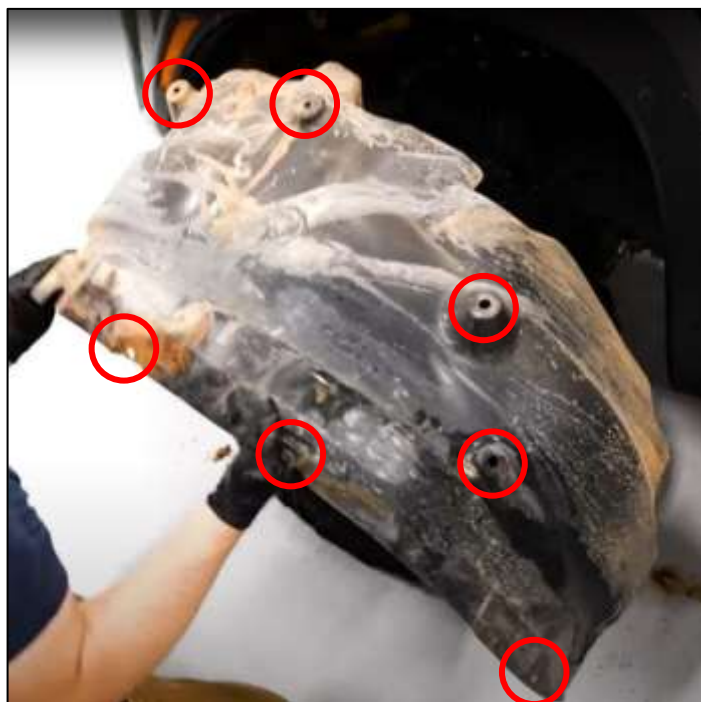


Figure 3

9. Remove the Front Fender Flares. These are held on by multiple clips inside of the wheel well. Using a pair of pliers, pinch the clips from inside the wheel well while slightly pulling the Fender Flare. Work from one side of the Fender Flare to the other to remove it from the body. Mounting points shown below, *Figure 4*.



Figure 4

10. Remove the cover on top of the Radiator, it is held on by (6) six plastic clips. Retain this hardware. *Figure 5.*

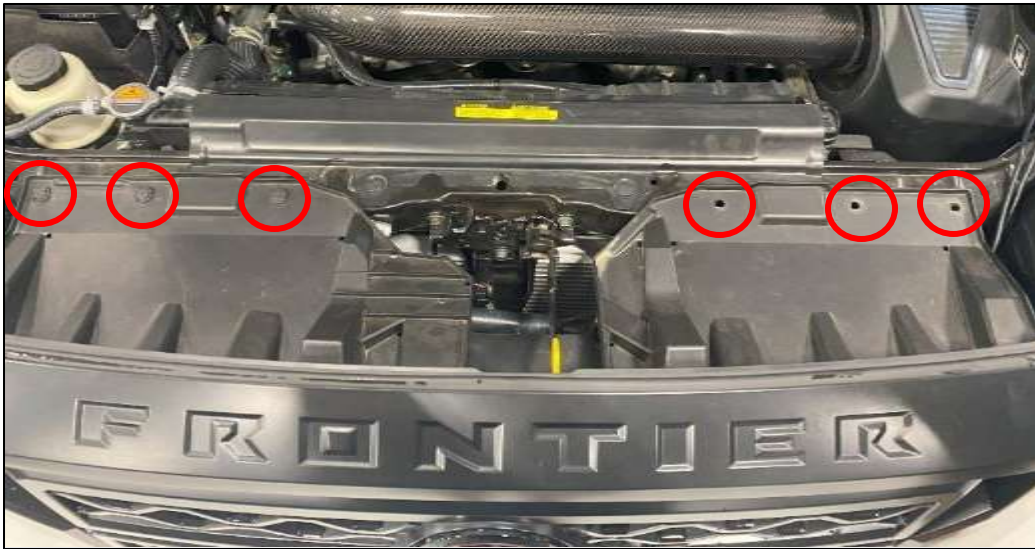


Figure 5

11. Remove the (2) two bolts holding the Front Grille to the Core Support. After the bolts are removed, the Grille can be pulled off, it is still held on by plastic clips. *Figure 6.*



Figure 6

12. Remove the Front Bumper. (1) One screw on each side in the Wheel Well holds it on. After removing the screws, pull the bumper away from the side of the truck on each side. After the sides have been unclipped, pull the bumper forward off of the car. It is recommended to do this with at least one other person. *Figure 7.*



Figure 7

13. Disconnect and set aside the Radar Sensor on the Front Crash Bar. It is held on by (3) three bolts. *Figure 8.*

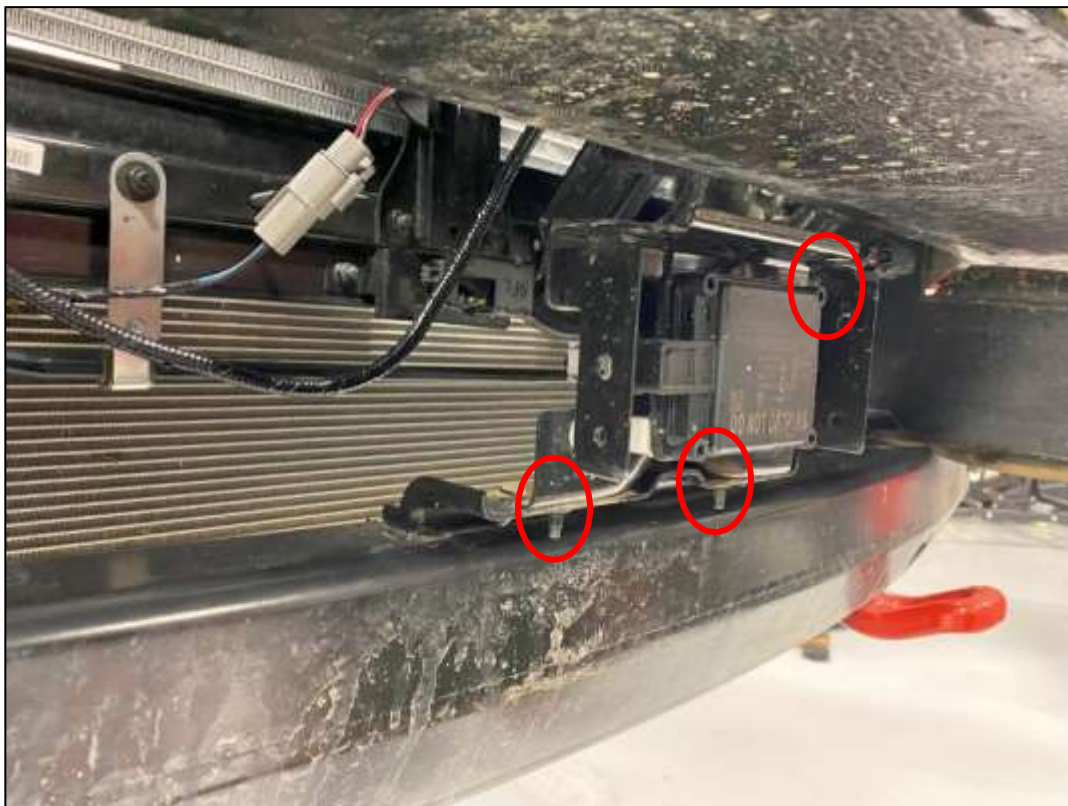


Figure 8

14. Remove the Front Crash Bar, it is held on by (4) four bolts, (2) two on each side. *Figure 9.*

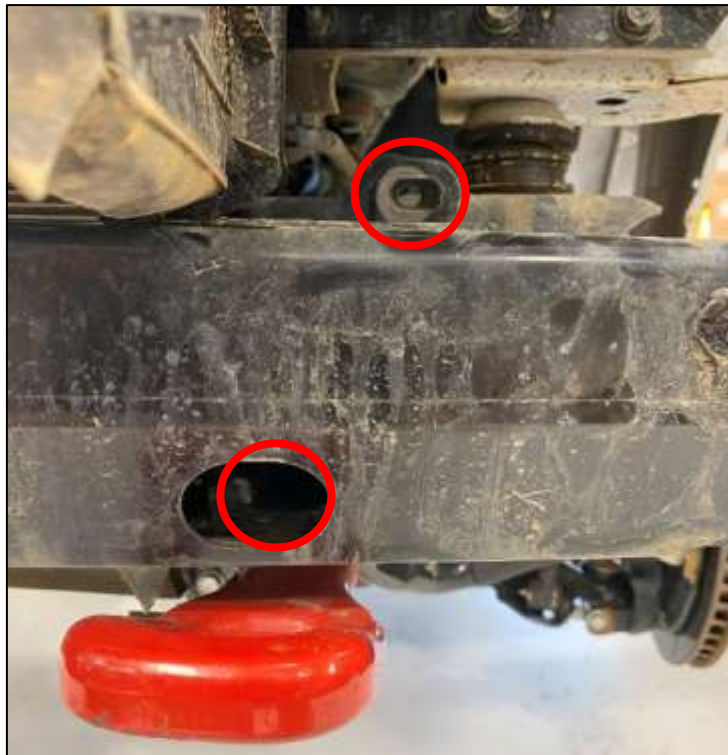


Figure 9

15. Disconnect the bolts and connectors in the Driver Side Wheel Well circled below. *Figure 10.*

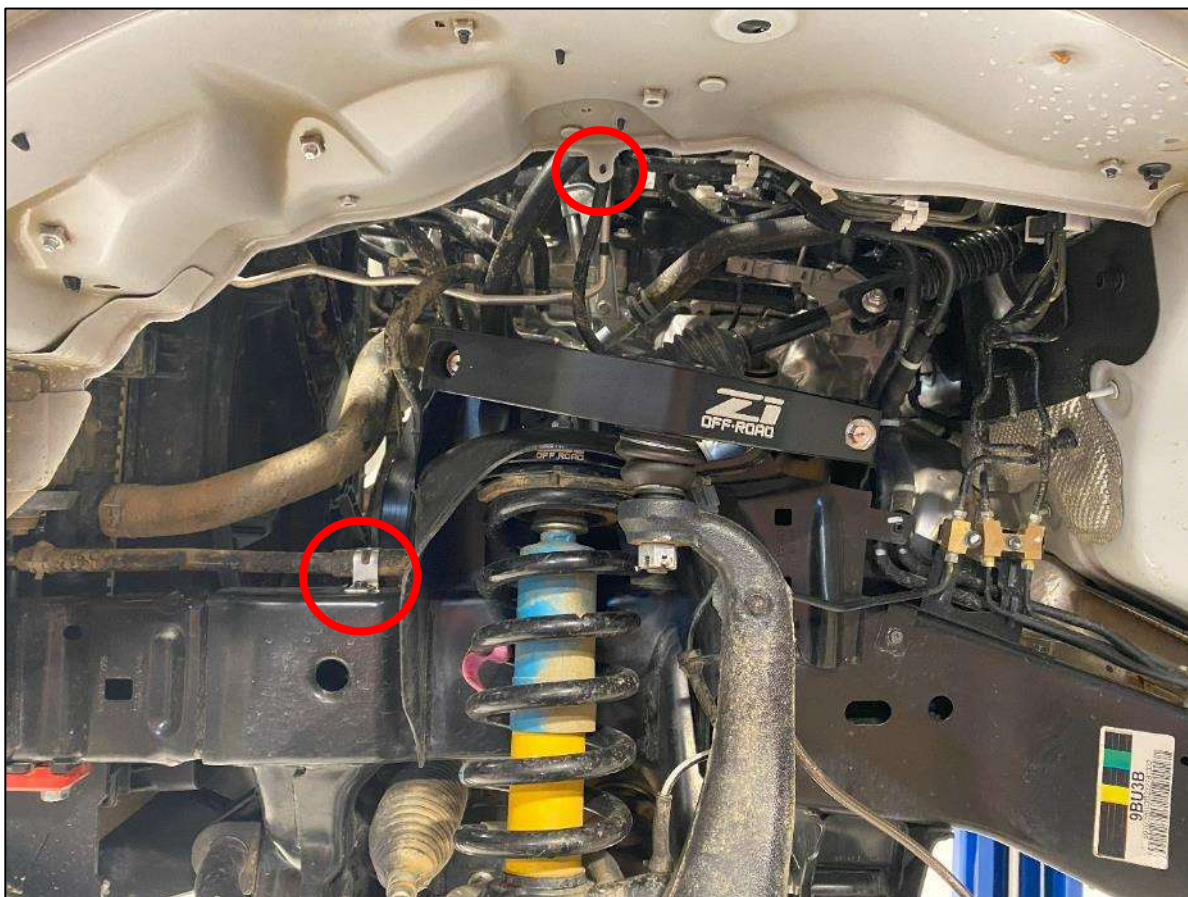


Figure 10

16. Disconnect the bolts and connectors in the Passenger Side Wheel Well circled below. *Figure 11.*



Figure 11

17. In the rear of the truck, remove the bolts securing the Fuel Fill Neck bracket to the car. *Figure 12.*



Figure 12

18. Open the Gas Cap and push/pull the grommet of the Fuel Fill Neck into the vehicle to separate it from the Truck Bed. *Figure 13.*



Figure 13

19. Cut the OE Zip Ties securing the Wiring Harness to the rear bumper. *Figure 14.*



Figure 14

20. Remove the (8) eight Body-to-Frame bolts securing the cab to the frame, (4) four on each side. *Figure 15.*

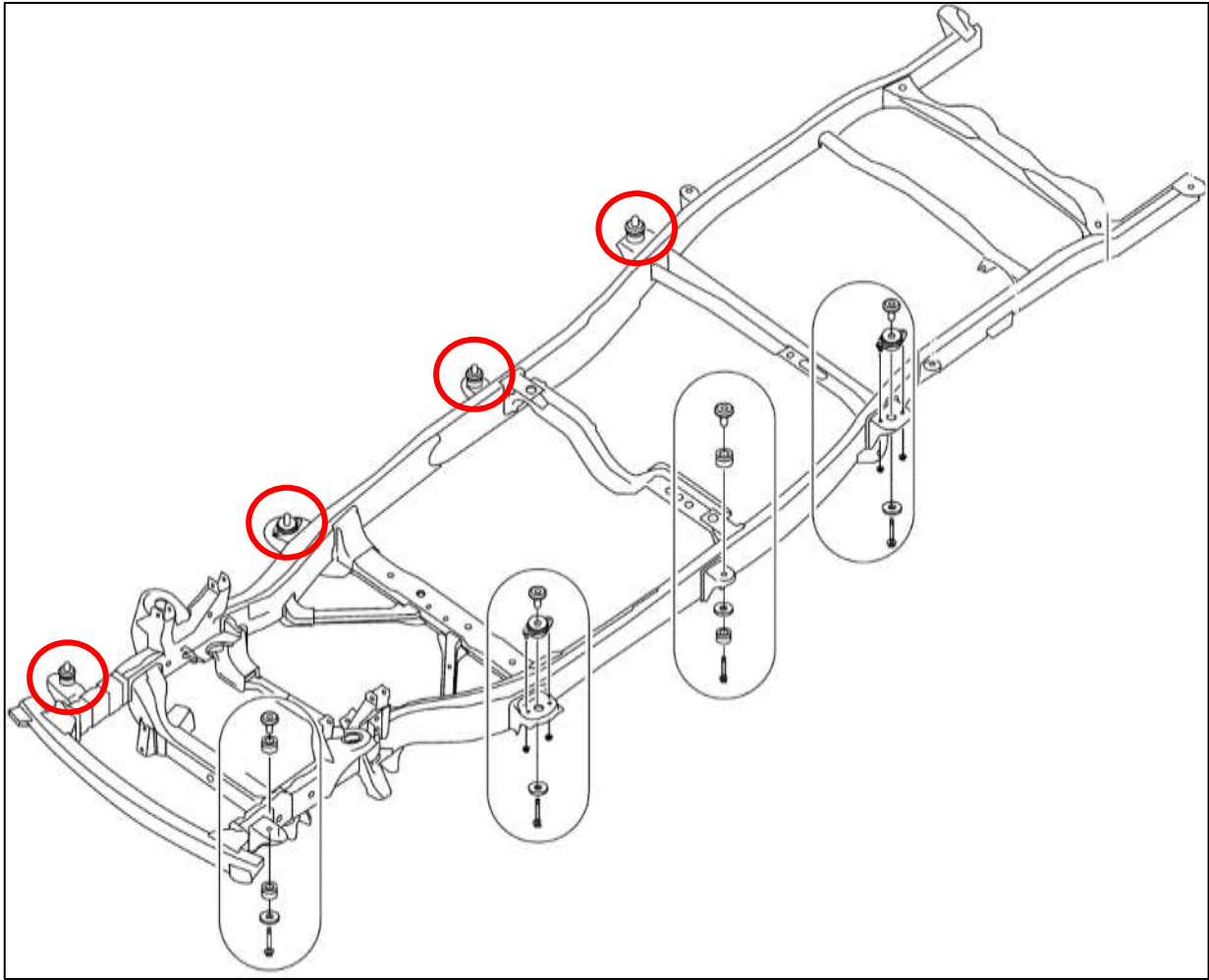


Figure 15

21. Lift the Cab of the Truck up slowly on the pinch welds. This can be done multiple ways. Using a lift is ideal and can lift the entire Cab up at once. But if you only have access to a Hydraulic Jack, you will have to lift one side of the Cab at a time. Lift slowly and check for anything that may be caught as the Cab is raised.
22. Once the Cab is lifted roughly ~2", check for fitment of the Z1 Spacers. These will sit **ON TOP** of the bushings on the frame. Lift the Cab as necessary until the Spacers fit on the bushings.
23. Locate the (6) six M10 x 1.25 Hex Bolts, 170mm, the (2) two M10 x 1.25 Hex Bolts, 220mm, and (8) eight M12 Washers. With a Washer on each bolt, insert a bolt through the frame and Spacer and loosely thread the bolt in. Make sure to reuse any OE Bushings or Washers that came off with the OE Bolts. The (6) six mounts towards the front of the car will use the shorter 170mm Bolt, the (2) two rear mounts (closest to the truck bed) will use the longer 220mm Bolts.
24. Slowly lower the Truck Cab back onto the Frame. Once positioned, torque the (8) eight bolts to **65 ft-lbs.**

25. Remove the (4) four bolts that secure the Truck Bed to the Frame. *Figure 16.*

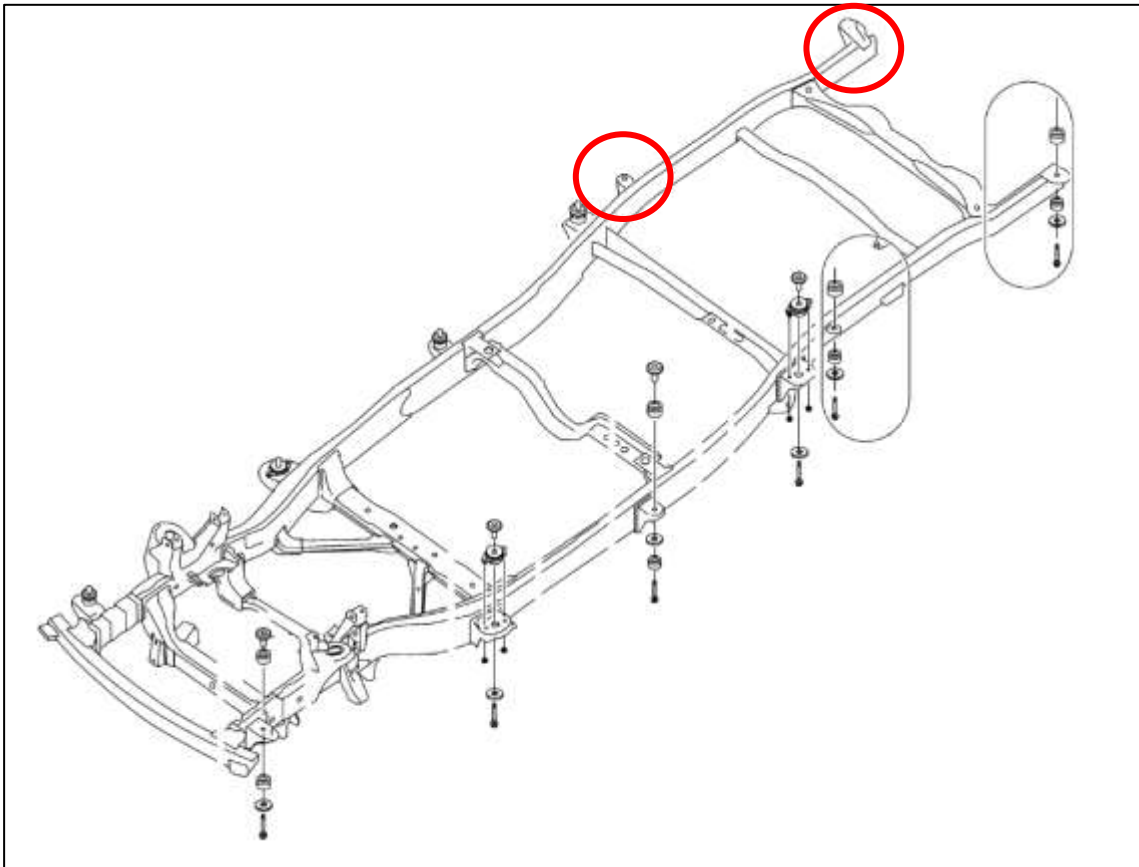


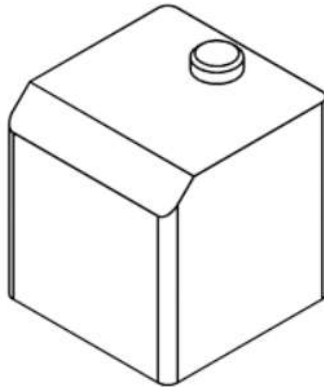
Figure 16

26. Using a lift or hydraulic jack, slowly lift and support the Truck Bed. We ended up raising the entire truck, and supporting the truck bed with pole jacks, before lowering the truck back down and leaving the bed suspended. There are multiple ways to do this. Watch for any wiring harnesses or parts that get caught when lifting. Remove and disconnect as necessary.

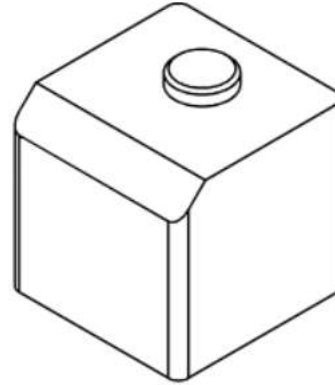
27. Check for clearance and insert (4) four Z1 Spacers **ON TOP** of the frame bushings and frame.

28. Locate (2) two Front Bed Risers, and (2) two Rear Bed Risers. They will not have a bolt and will be sandwiched between the Frame and the Truck Bed. The Front Bed Riser will have the Smaller Tab on top, and the Rear Bed Riser will have the larger tab on top. *Figure 17.*

Front Bed Riser



Rear Bed Riser



Front Bed Riser on the middle of the Truck Bed. The Angled Portion will face outboard



Rear Bed Riser on the rear of the Truck Bed. The Angled Portion will face the rear of the Truck



Figure 17

29. Locate (4) four M10 x 1.25 Flanged Hex Head Screws, loosely thread them into the Frame Mounts. It is highly recommended to use medium strength thread locker on these bolts.
30. Slowly lower the Truck Cab back onto the frame.
31. Torque the installed M10 x 1.25 Flanged Hex Head Screws to **16 ft-lbs.**
32. Locate the Front Bumper Relocation Brackets. Position the Brackets onto the front mounting position where the Crash Bar sat and use the OE mounting hardware to secure them. Torque to **62 ft-lbs.** *Figure 18.*

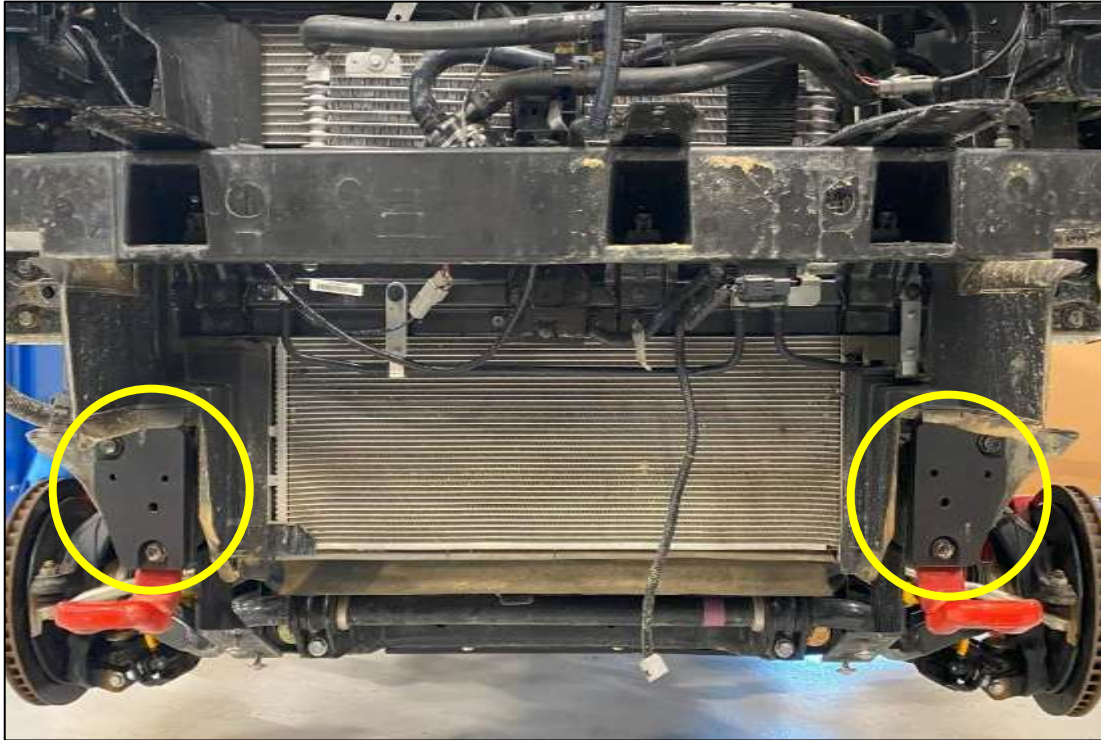


Figure 18

33. Mount the OE Crash Bar using (4) four M12 x 1.5 Bolts to the Mounting Brackets installed in *Step 32*. Torque to **69 ft-lbs.**
34. Locate the Z1 Radiator Hose, install it onto the Radiator and the Coolant Crossover Pipe where the OE Radiator Hose was removed in *Step 5*. Use the OE Hose clamps removed to secure the hose. Refill and bleed the Coolant System after installation is finished.
35. Reconnect the Fuel Filler Neck and reattach the grommet in fuel door.
36. Reinstall the bolts and connectors removed in *Steps 11-12*.
37. Reinstall the Front Fender Flares.
38. Reinstall the Front Fender Liners.
39. Reinstall the Mud Guards.
40. Reinstall the Radiator and Front Bumper Cover removed in *Step 9-10*.

41. Clean the mounting surface for the Tailgate Finisher. *Figure 19.*



Figure 19

42. Locate the Tailgate Finisher and peel the Double-Sided Tape on the back. *Figure 20.*



Figure 20

43. Position the Tailgate Finisher onto the Truck Bed and line the notch of the Tailgate Finisher up with the notch of the Truck Bed. When positioned, push the Tailgate Finisher against the Truck Bed to secure it into position. *Figure 21.*



Figure 21

44. Locate the (2) two Button Head Screws and install them into the Tailgate Finisher and rear of the truck, and secure with the (2) two supplied Lock Nuts on the back. *Figure 22.*



Figure 22

END

Additional Technical Support:
Contact Z1 Off-Road at info@z1offroad.com
Or call 678-839-8019 between 9am and 6pm ET