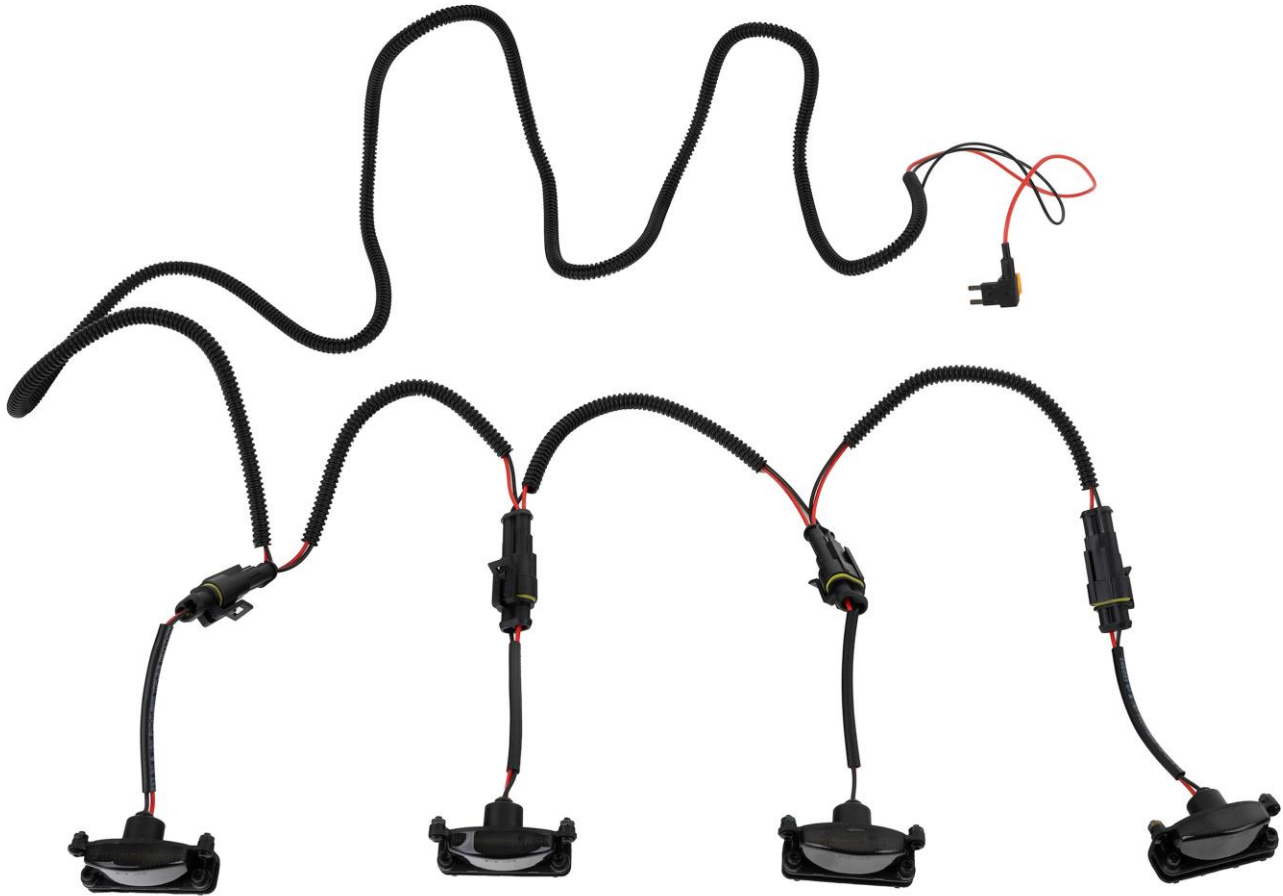


Z1 22-24 FRONTIER RAPTOR-STYLE GRILLE LIGHT KIT - COMPOSITE INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2022-2024

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 Frontier Raptor-Style Grille Light Kit - Composite, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	Grille Light Harness
2	1	Add-A-Circuit Fuse
3	4	Light Bracket
4	8	M3 x 8mm Thumb Screw
5	8	M3 x 0.5 Hex Nut
6	8	M3 x 6mm Button Head Screw
7	4	Zip Tie

TOOLS REQUIRED:

- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets
- Assorted Metric Wrenches
- Hex/Allen Keys

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 Frontier Raptor-Style Grille Light Kit and verify that ALL necessary hardware is present.

PROCEDURE:

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Open and support the hood of the vehicle.
3. Disconnect the **NEGATIVE (-)** battery terminal.
4. Remove the (6) six Plastic Clips securing the top of the Radiator Cover to the vehicle. *Figure 1.*

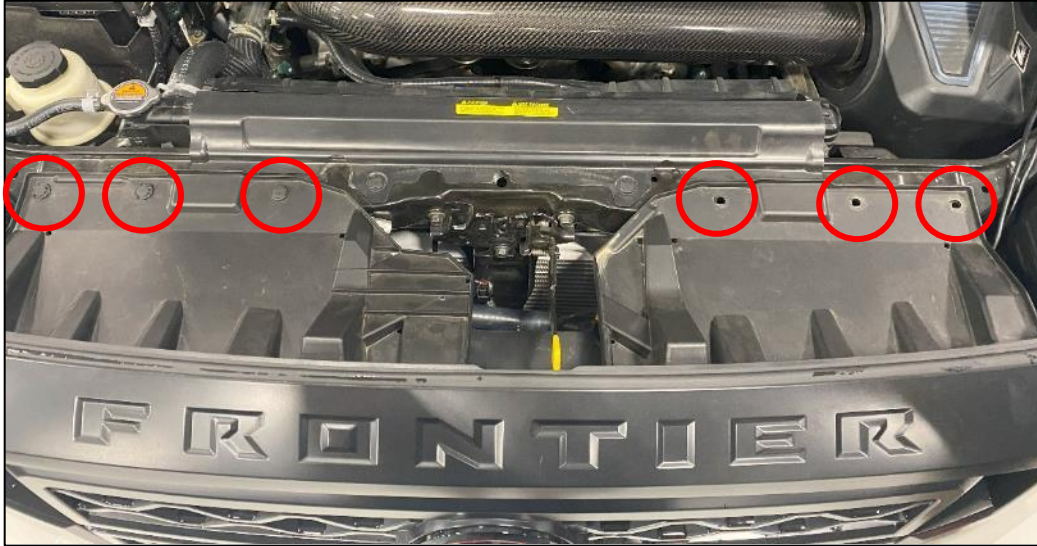


Figure 1

5. Remove the (3) three screws securing the front of the Radiator Cover to the Front Grille.

6. Remove the Radiator Cover from the vehicle. *Figure 2.*



Figure 2

7. Unclip the Front Grille from the vehicle. There are clips on both sides and the bottom of the Grille that must be released. Some vehicles will need to disconnect the Front Camera to fully removed the Grille. *Figure 3.*

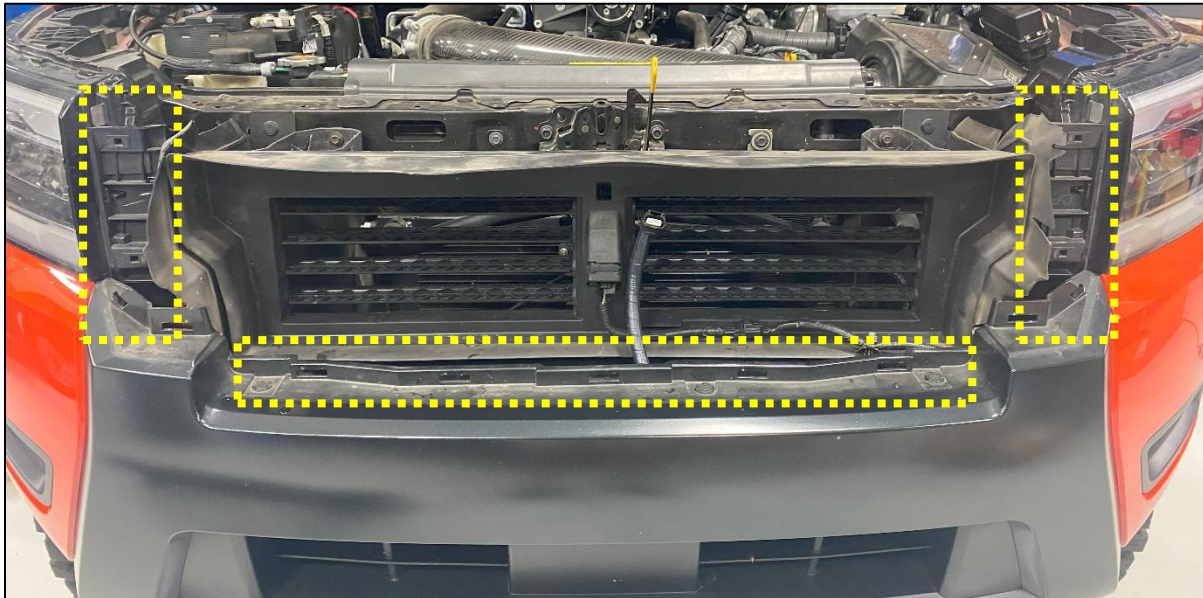


Figure 3

8. Locate (4) four Grille Lights, (4) four Grille Light Brackets, (8) eight M3 Thumb Screws, (8) eight M3 x 6mm Button Head Screws and (8) eight M3 x 0.5 Hex Nuts. Position (1) one Grille Light onto each Light Bracket as shown and secure with (2) two M3 Button Head Screws and Hex Nuts each. *Figure 4.*



Figure 4

9. Loosely install (2) two Thumb Screws into the top of each Grille Light Bracket. *Figure 5.*

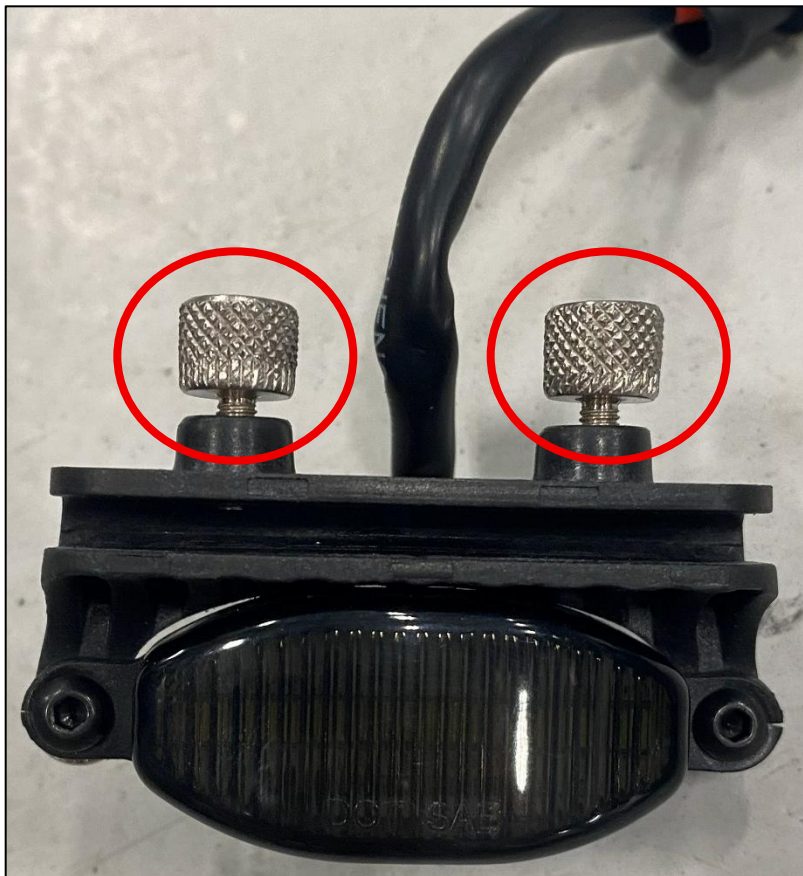


Figure 5

10. Position the Grille Light Brackets into the Grille as shown. Once positioned, tighten the Thumb Screws to secure the Bracket to the Grille. *Figure 6.*

NOTE: The Bottom image in *Figure 6* shows the Grille of a 2025 Frontier which is slightly different. However, the process is still the same.

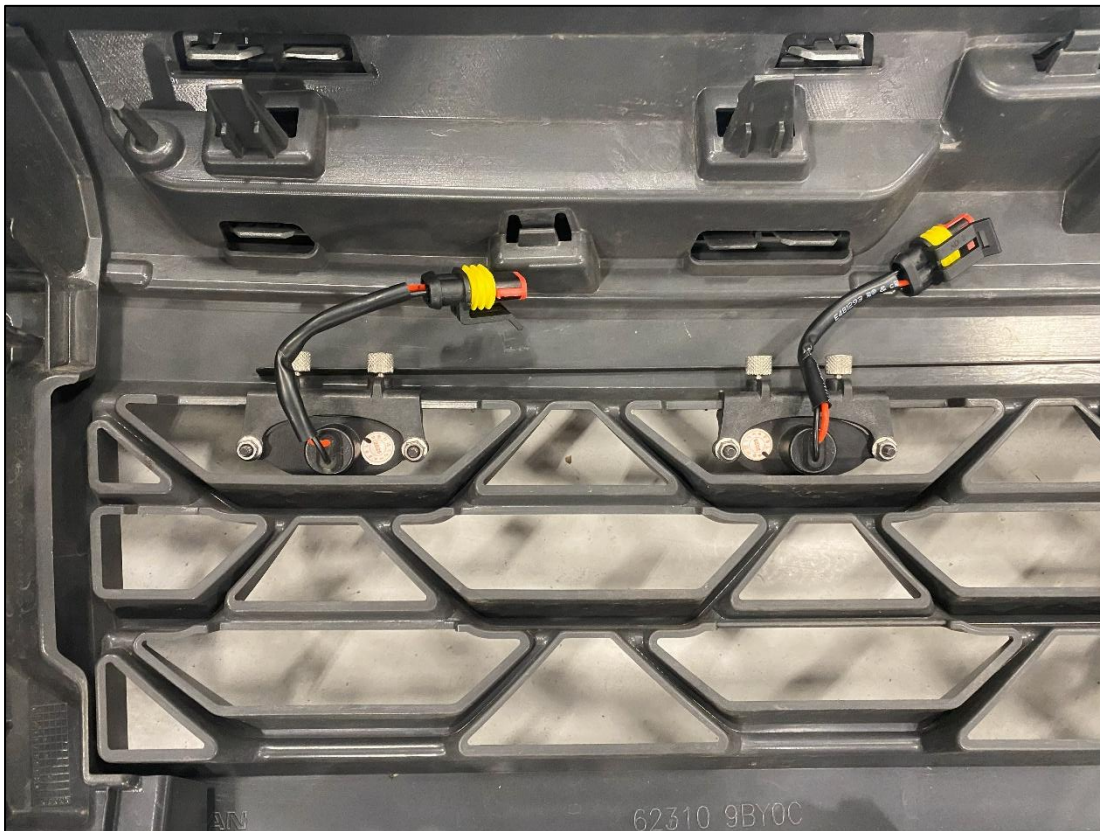
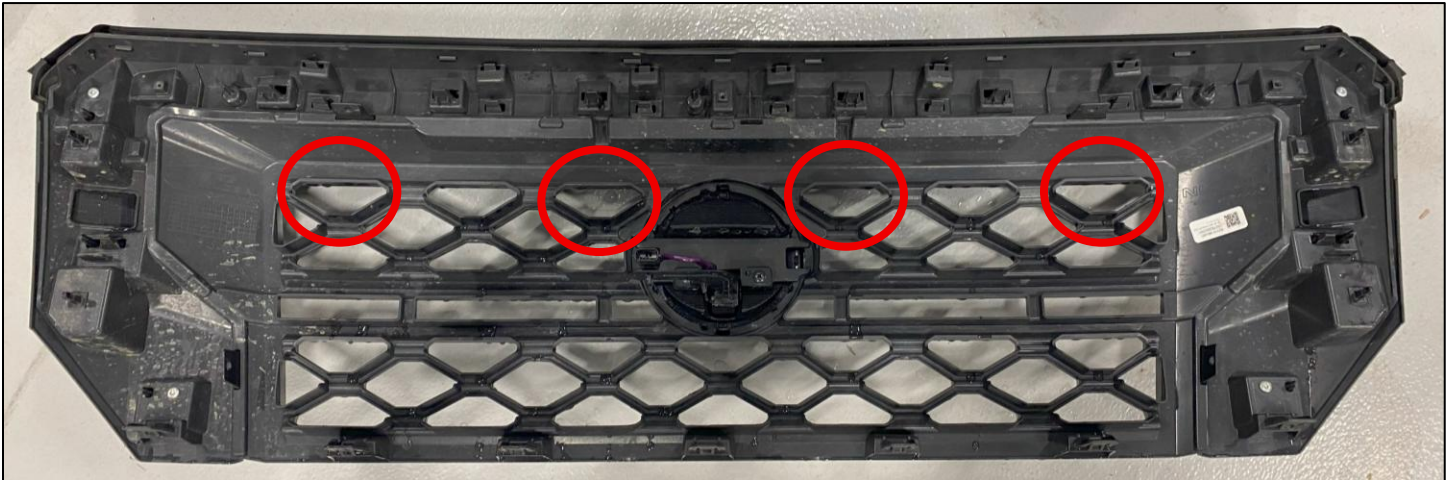


Figure 6

11. Locate the Grille Light Harness. Connect the Harness to each Grille Light and run the Harness to the Passenger Side of vehicle. Secure the Harness with Zip Ties where necessary. *Figure 7.*

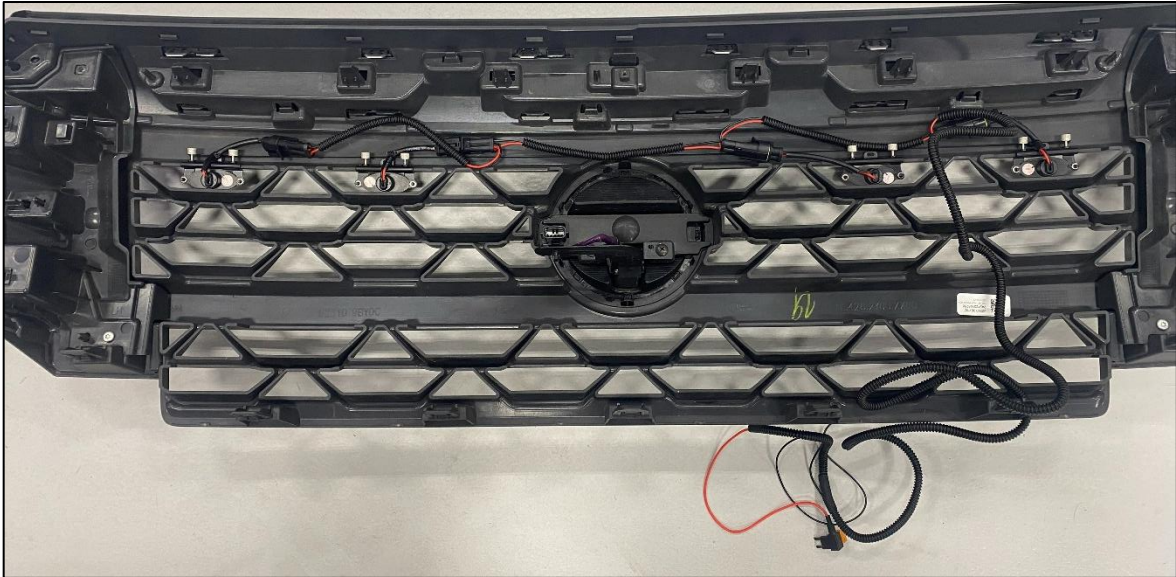


Figure 7

12. Reinstall the Grille into the vehicle. Be careful not to pinch the Light Harness upon reinstallation. *Figure 8.*

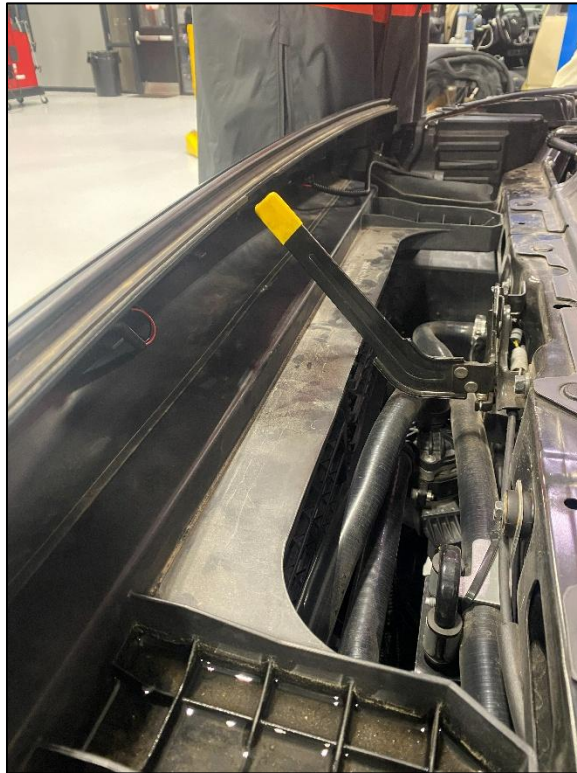


Figure 8

13. Route the Wiring Harness to the Fuse Box in the passenger side of the engine bay. There are multiple ways to run the wire. We ran ours through the Core Support, in front of the battery, and between the Coolant Reservoir Tank. *Figure 9.*

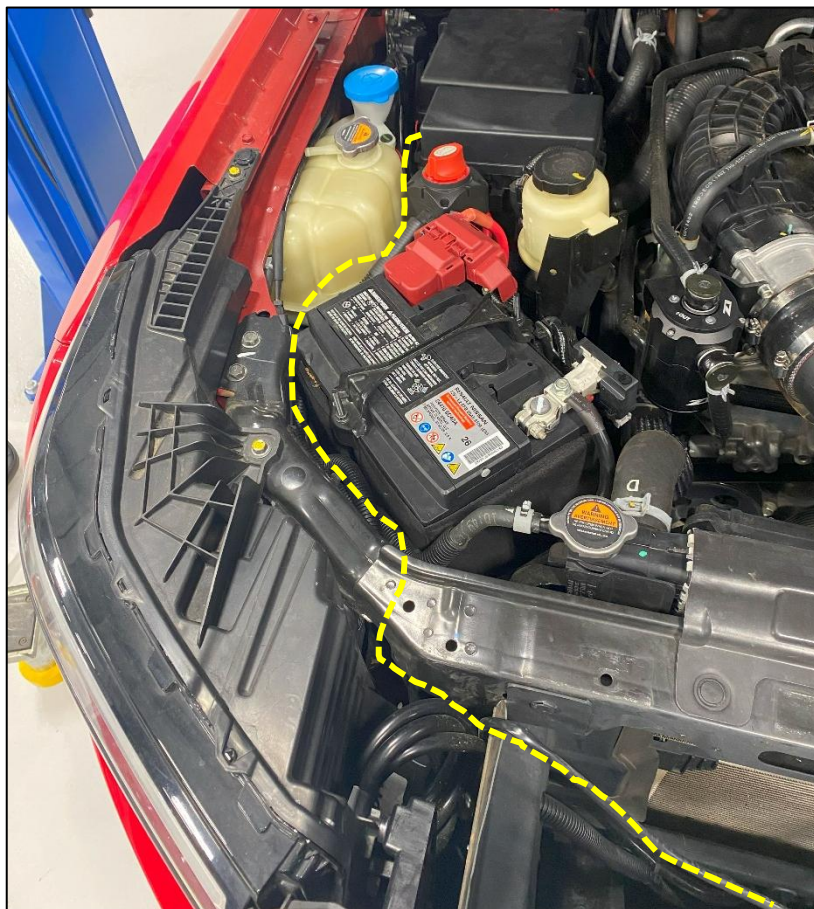


Figure 9

14. Open the Fuse Box and determine the fuse you want to tap into with the lights. We chose the ABS Module fuse, as it gets Ignition Power. Use your Owners Manual for a Fuse Box Diagram to determine the proper fuse.
15. Remove the desired fuse, and install the Add-a-Circuit into the now open slot. *Figure 10.*

NOTE: Be aware of the Amperage of the fuse being removed. The Add-a-Circuit uses a 10 Amp fuse, and may need to be swapped out if you choose to tap into a 15 or 20 Amp location. The 5 Amp fuse is for the LED Raptor Lights and needs to stay in the Add-a-Circuit.

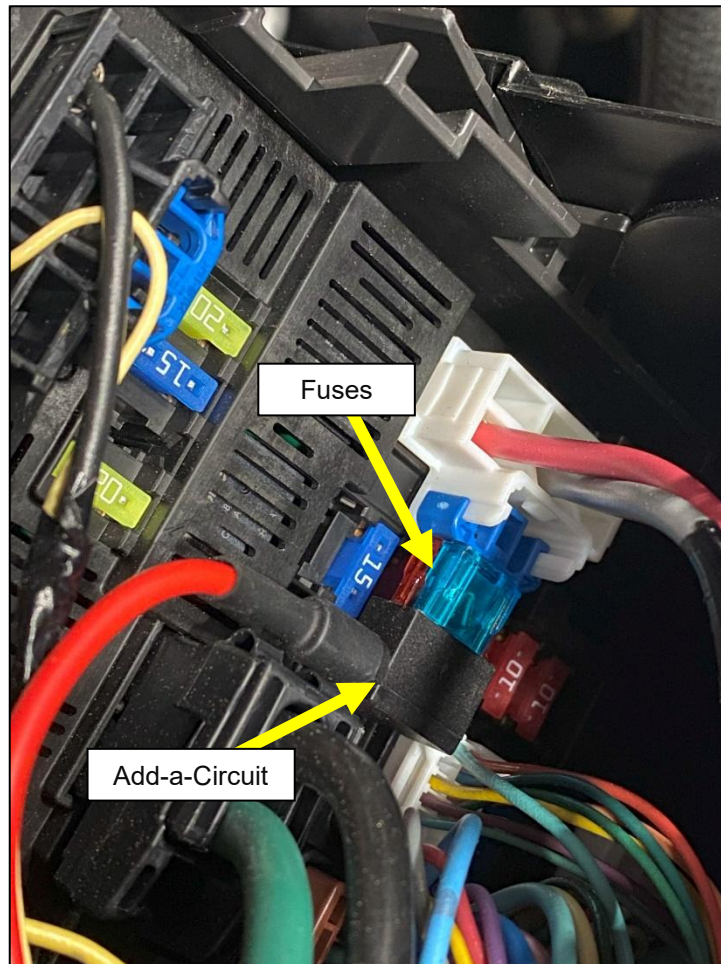


Figure 10

16. Remove a body bolt near the Fuse Box and attach the ground wire from the wiring harness. Reinstall the bolt to secure the ground wire. *Figure 11.*

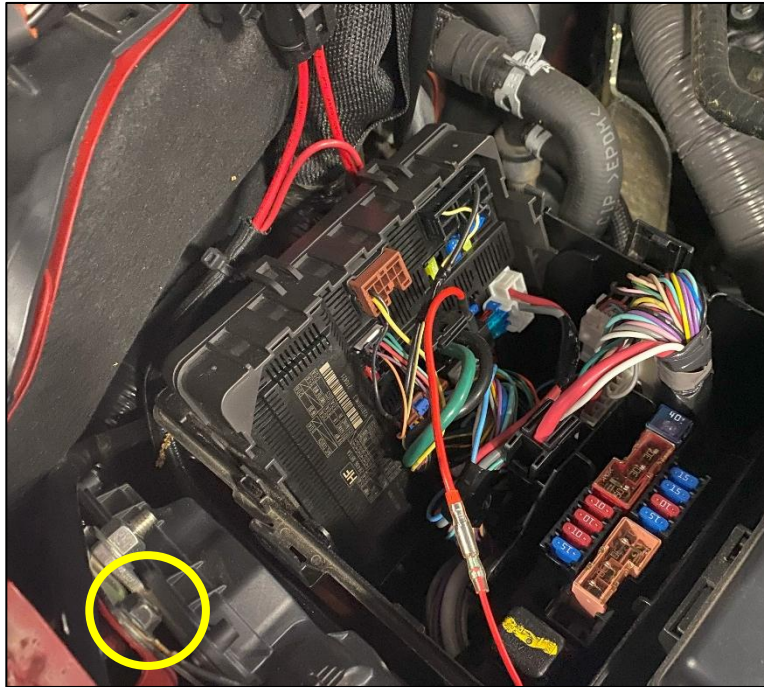


Figure 11

17. Notch the corner of the Fuse Box so the Wiring Harness can run into the Fuse Box without being pinched. *Figure 12.*

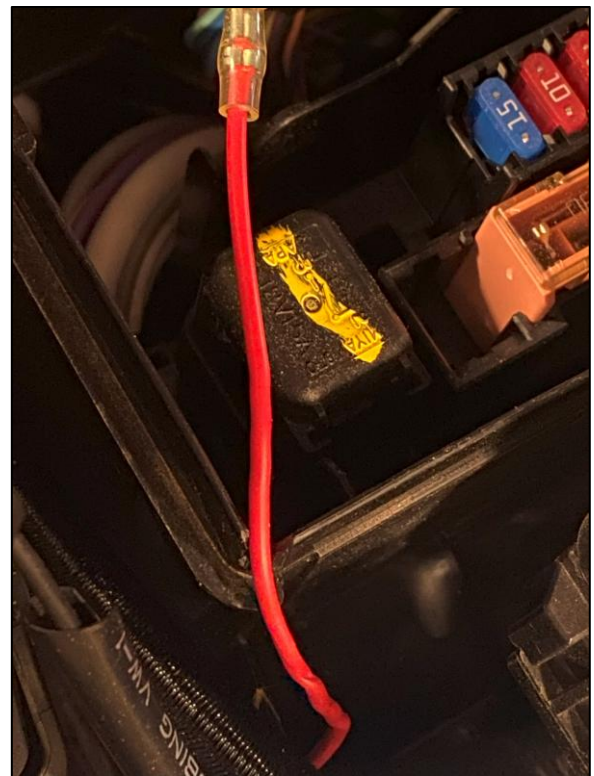


Figure 12

18. Locate the supplied Zip Ties, and secure the Wiring Harness to the vehicle. There are multiple places that the Wiring Harness can be secured, and is dependent on how the Wiring Harness was ran to the Fuse Box.
19. Reconnect the **NEGATIVE (-)** terminal of the battery.
20. Turn the vehicle on and test the function of the Raptor Lights.



Installed Frontier Grille/Raptor Lights

END

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