

Z1 FRONTIER/XTERRA ALUMINUM RADIATOR SKID PLATE INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2005-2021	Nissan Frontier (D40)
2022+	Nissan Frontier (D41)
2005-2015	Nissan Xterra

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/Xterra Radiator Skid Plate, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	Main Panel
2	1	Driver Side Bracket
3	1	Passenger Side Bracket
4	8	M6 x 15mm Bolt
5	8	M6 Washer
6	2	M6 Nylon Lock Nut
7	2	M6 Oversized Washer
8	4	M12 x 45mm Bolt
9	4	M12 Washer
10	4	M8 x 25mm Flanged Button Head Bolt
11	4	M8 Washer

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- 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 Frontier/Xterra Radiator Skid Plate and verify that ALL necessary hardware is present.

The Skid Plate will come with extra hardware that is not needed. The correct hardware will be Stainless Steel and Zinc Coated Steel bagged together in a 4" Poly Bag. The extra hardware, mostly Black Phosphate, can be discarded.

PROCEDURE:

1. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
2. Raise and support the vehicle with a jack and jack stands if desired. This installation can be done on the ground without raising the vehicle.
3. Remove the OE Skid Plate if your vehicle is equipped with one. It is held on by (4) four bolts. *Figure 1.*



Figure 1

4. Remove the Plate under the Skid Plate. It is held on by (2) two bolts on the left and right sides, (2) two bolts on the bottom of the frame, and (2) two bolts behind the front bumper. *Figure 2.*

NOTE. When removing these bolts, be careful to not drop the Tow Hooks if your vehicle is equipped with them as they will fall when the bolts on the side are removed.

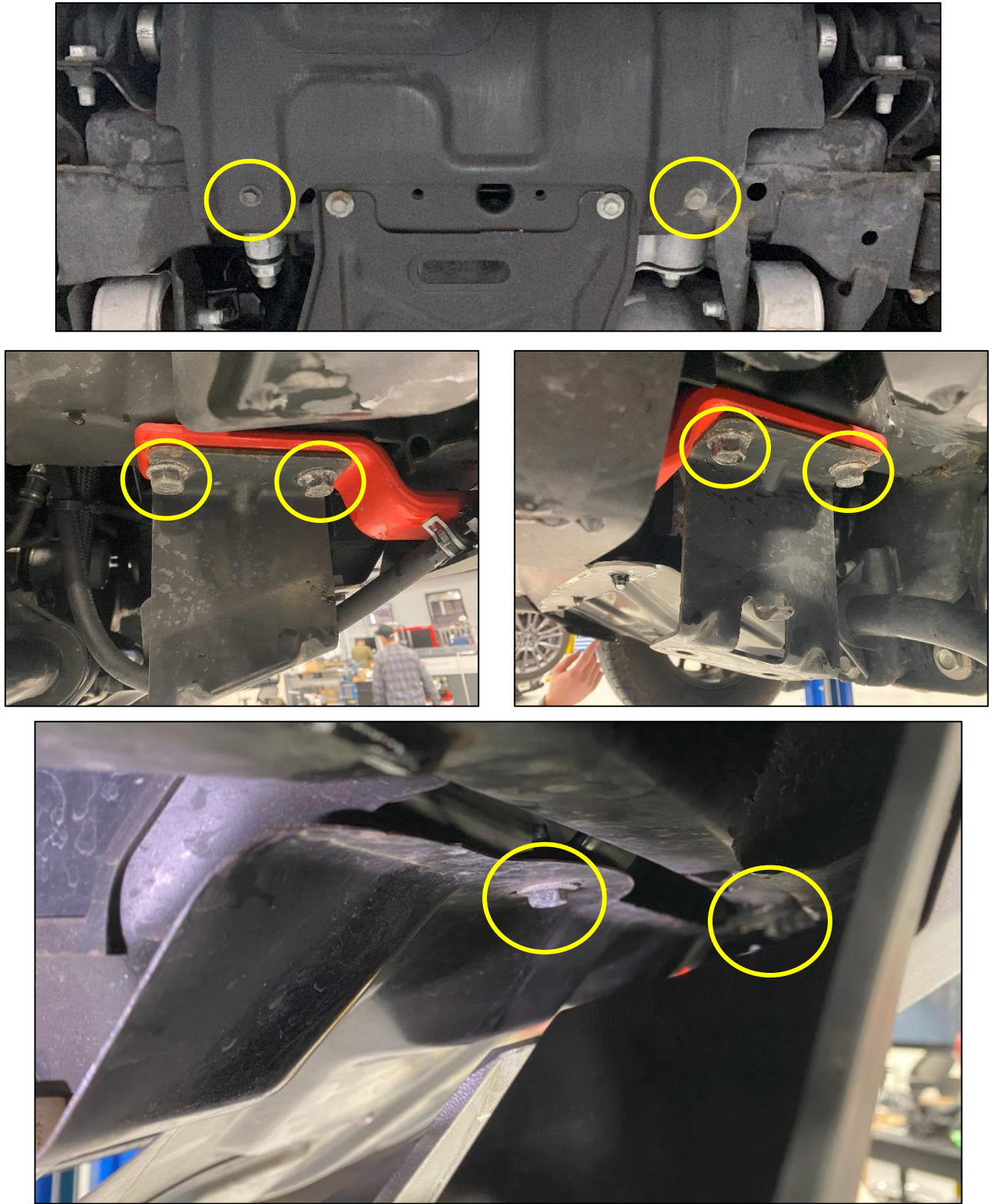


Figure 2

5. Locate the Driver and Passenger Side Brackets, (4) four M12 x 45mm Bolts and (4) four M12 Washers. Place the Brackets on the Frame Rail and secure each with (2) two M12 Bolts and Washers. On D40 Frontier and Xterra, the Tow Hooks will be reinstalled ON TOP of the Bracket (between the Frame Rail and Bracket). D41 Frontiers will have the Tow Hook UNDER the Bracket. *Figure 3.*



Figure 3

6. Locate the Main Panel and remaining Hardware. Loosely secure the Main Panel to the Brackets installed in *Step 5* with (4) four M8 x 25mm Flanged Button Head Bolts and M8 Washers. Make sure the Front Edge of the Main Panel meets up with the mounting tabs on the Bumper. *Figure 4.*

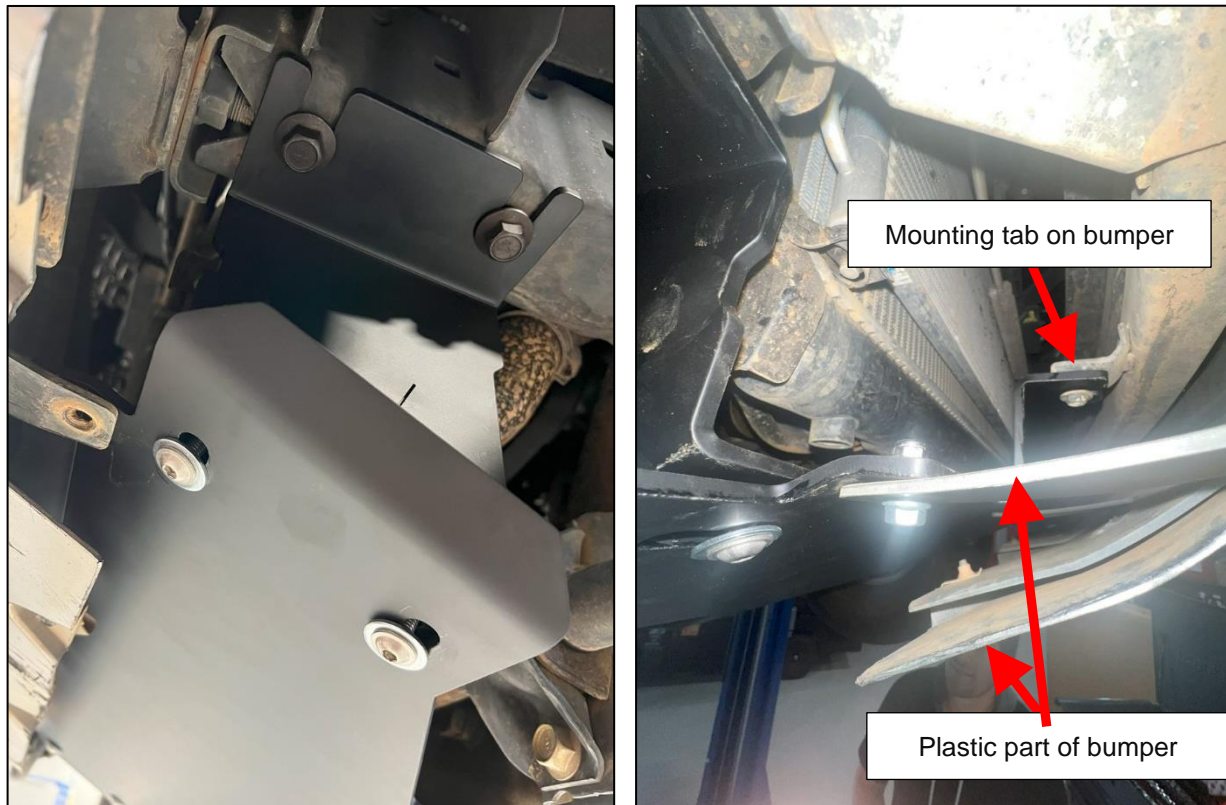


Figure 4

7. Loosely secure the front mounting tabs of the Main Plate to the mounting tabs on the Front Bumper with (2) two M6 x 16mm Bolts and M6 Washers. On Xterra's, there will be access holes in the Front Bumper allowing you to install these bolts (shown below). Frontier's will need to pry the bottom of the Bumper away and use a wrench to access these tabs. *Figure 5.*



Figure 5

8. Loosely secure the middle holes on the bottom of the Front Bumper to the Skid Plate with (2) two M6 x 16mm Bolts and M6 Washers.
9. Loosely secure the outside holes on the bottom of the Front Bumper to the Skid Plate with (2) two M6 x 16mm Bolts and M6 Washers. Secure with (2) two M6 Nylon Lock Nuts on top. *Figure 6.*

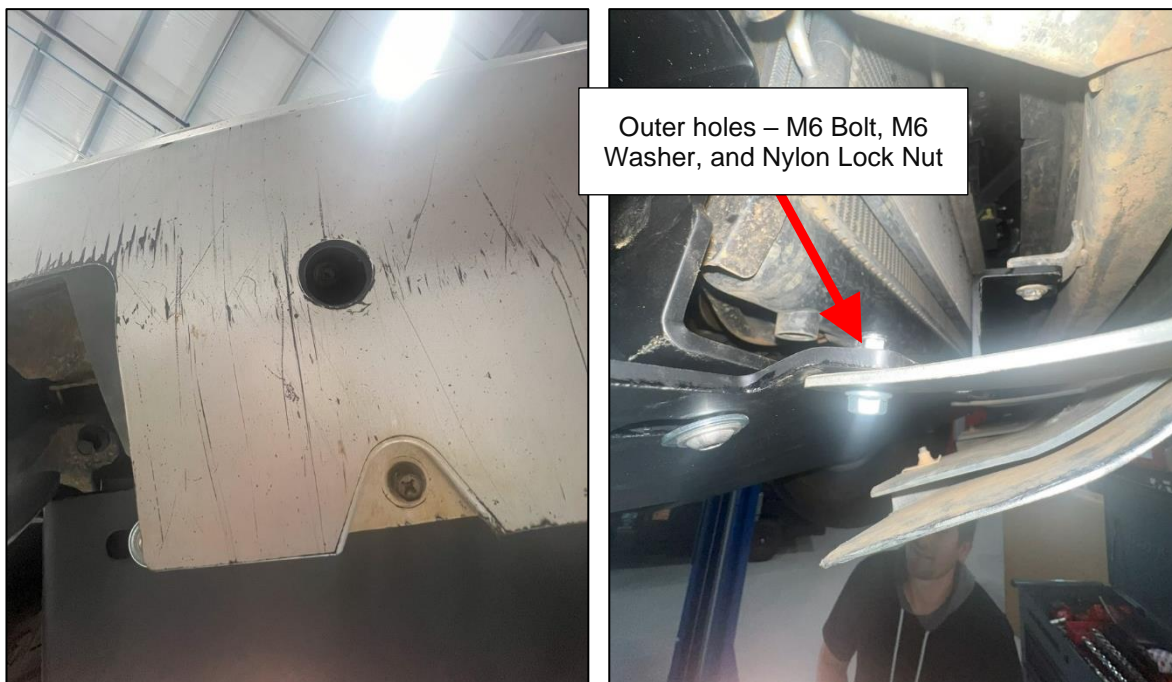


Figure 6

10. Loosely secure the rear of the Skid Plate to the Front Subframe with (2) two M6 x 16mm Bolts and M6 Washers. *Figure 7.*



Figure 7

11. Once all bolts are loosely installed, adjust the Skid Plate as necessary and then tighten all Hardware to secure the Skid Plate.

END

Additional Technical Support:

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