

Z1 FRONTIER XTERRA TRANSMISSION SKID PLATE INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2005-2021	Nissan Frontier
2022+	Nissan Frontier
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 Transmission Skid Plate, consult with a Professional Mechanic or contact Z1 Off-Road for more information.

PARTS INCLUDED:

Item	Quantity	Description
Xterra Owners Will Receive:		
1	1	Z1 Transmission Skid Plate
2	5	M8 x 30mm Bolt
3	5	M8 Oversized Washer
Frontier Owners Will Receive		
1	1	Z1 Transmission Skid Plate
2	4	M8 x 30mm Bolt
3	1	M8 x 70mm Bolt
4	1	M8 Nyloc Nut
5	5	M8 Oversized Washer

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets (up to 21mm)
- Assorted Metric Wrenches (up to 21mm)
- Torque Wrench
- Hammer

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.

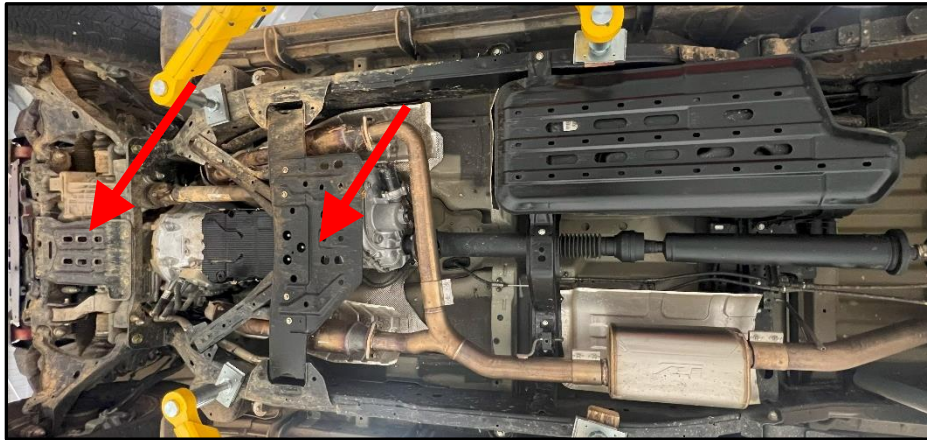
BEFORE YOU BEGIN:

Remove contents from the Z1 Off-Road Frontier Xterra Gas Tank Skid Plate box. The skid plate will come with extra hardware that is not needed. The correct hardware will be stainless steel and zinc coated steel and bagged together in a 4" poly bag. There will be extra hardware (mostly black phosphate) that 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. Locate proper jacking points on vehicle's chassis (refer to vehicle's Owner Manual). Raise and support vehicle using jack & jack stands.

3. Remove the OE engine oil pan and transfer case cover. The image shown below is of a D41 Frontier. D40 Frontiers and Xterras are in the same location but may be mounted with less bolts.



4. Locate the Z1 Transmission Skid Plate and all provided hardware.
5. Loosely install (2) 30mm M8 bolts and washers into the holes where the OE engine oil pan cover attached, just a couple of threads deep.
6. Slide the slots on the Z1 skid onto the bolts installed in the previous step. If you purchased the Z1 engine oil pan skid plate, install that first, then make sure the transfer case skid is mounted above the engine oil pan skid (the transmission skid is sandwiched between the engine oil pan skid and the vehicle).

In general, when one skid overlaps another the forward most skid should be on the bottom. This is to prevent the rearward skid from getting snagged on a rock or debris. When the forward skid is on bottom a rock should just slide across rather than getting snagged on the rear skids lip.

7. With the front of the skid resting on the bolts, swing up the rear. Secure the rear to the cross brace where the OE transfer case cover was attached with 30mm M8 bolts and washer. The below picture shows a Frontier, Xterra will be very similar but with (3) mounting holes in the rear.



Note: On certain model year D40 Frontiers, the passenger side rear mounting hole will not be threaded and you will have to use the 70mm long M8 bolt and the M8 nyloc nut and washer.

8. Once all bolts are loosely installed, go back and tighten all hardware in steps until everything is tight.
9. Check vehicle for loose tools/items.
10. Properly lower vehicle from jack and jackstands.
11. Take vehicle for a test drive.

END

Additional Technical Support:

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