

Z1 FRONTIER XTERRA TRANSMISSION 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 Transmission Skid Plate, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

PARTS INCLUDED:

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

TOOLS REQUIRED:

- Hydraulic Jack
- (2) 2-Ton (or greater) Jack Stands
- Ratchet
- Ratchet Extension(s)
- Assorted Metric Sockets
- Assorted Metric Wrenches

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 Transmission Skid Plate and verify that ALL necessary hardware is present. **The Skid Plate will come with extra hardware that is not needed. Use the Zinc Coated Hardware that is bagged together, the extra Black Phosphate Hardware 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 the proper jacking points on the Vehicle's chassis, refer to the Vehicle's Owner's Manual. Raise and support the vehicle with a jack and jack stands.
3. Remove the OE Engine Oil Pan and Transfer Case Cover. *Figure 1* below shows a D41 Frontier. D40 Frontier and Xterra Covers are in the same position but may be mounted with less bolts depending on model year.

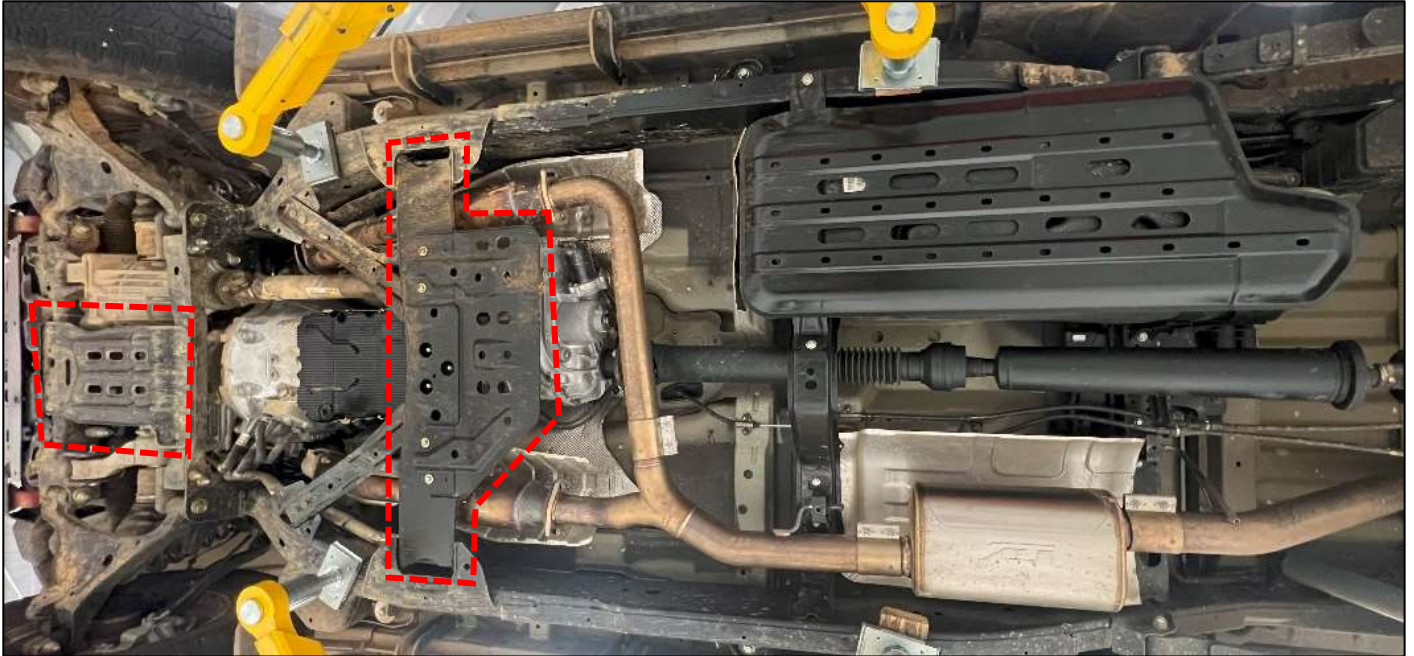


Figure 1

4. Locate the Z1 Transmission Skid Plate and all provided hardware. **Use the Zinc Coated Hardware that is bagged together and discard the Black Phosphate Hardware.**
5. Loosely install (2) two M8 x 30mm Bolts with an M8 Washer into the holes where the OE Engine Oil Pan Cover was attached. Do not install the Bolts all the way, just start the threads.
6. Slide the slots of the Z1 Skid Plate onto the bolts installed in *Step 5*. If you purchased the Z1 [Engine Oil Pan Skid Plate](#), install that first and it should go below the Transmission Skid Plate. If you have the [Transfer Case Skid Plate](#), make sure it is mounted above the Transmission Skid Plate (The Transmission Skid Plate will be between the Oil Pan and Transfer Case Skid Plate).

In general, when one Skid Plate overlaps another, the forward most Skid Plate should be on the bottom. This is to prevent the Rearward Skid Plate from getting snagged on rocks or debris.

7. With the front of the Skid Plate resting on the bolts, swing up the rear. Secure the rear of the Skid Plate to the Cross Brace where the OE Transfer Case Cover was attached with M8 x 30mm Bolts and a Washer. *Figure 2* below shows a Frontier, Xterra will be similar, but it has (3) three 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 need to use the M8 x 70mm Bolt with an M8 Nylon Lock Nut and Washer to secure the plate.



Figure 2

8. Once all the bolts are loosely installed and the Skid Plate is in position, tighten all the hardware in steps until the Skid Plate is secure and the hardware is tight.
9. Safely lower the vehicle from jack stands.

END

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