

Z1 M226 DIFFERENTIAL COVER SHIELD INSTALLATION MANUAL



This Installation Manual is intended for the following models:	
2022+	Nissan Frontier (D41)
2005-2022	Nissan Frontier (D40 Pro-4X, NISMO, Manual)
2005-2015	Nissan Xterra (Pro-4X, Offroad, Manual)
2004-2015	Nissan Titan (A60)

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 M226 Differential Cover Shield, consult with a Professional Mechanic, or contact Z1 Off-Road for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	Differential Cover Shield
2	4	5/16" Stud, 1" Long
3	4	5/16" Flanged Lock Nuts
Optional		
4	1	Cover Shim

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 M226 Differential Cover Shield and verify that ALL necessary hardware is present.

This Product is intended for users who have the M226 Rearend in their vehicle and will not fit the other options available on some Nissan Truck Models.

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. Locate the Differential Cover on your vehicle. Remove the (4) four lower bolts securing the Differential Cover to the Differential Case. *Figure 1.*

NOTE: If your Differential starts leaking, you will have to fully remove the Cover, drain and clean the Differential, and install more RTV or another Gasket onto the Differential Cover. Refill with new Differential Fluid after the installation of the new Differential Shield. We swapped to a different Cover and changed the fluid in the process of this installation.



Figure 1

4. Locate (4) four 5/16" Studs. Install them into the Differential Housing where the OE Bolts were removed in *Step 3*. Thread the stud in and make sure there are enough threads for the nuts to go on, or if the thread bottoms out, whatever comes first.
5. Position the Differential Cover Shield onto the Differential cover over the Studs installed in *Step 4*. *Figure 2*.

NOTE: If your Cover Shield came with a Shim, it will be installed here in between the Cover Shield and the Differential Cover. Some Kits do not include this, however there is no difference between the performance of the different versions. If you are also installing a Differential Shield, skip to *Step 6*.

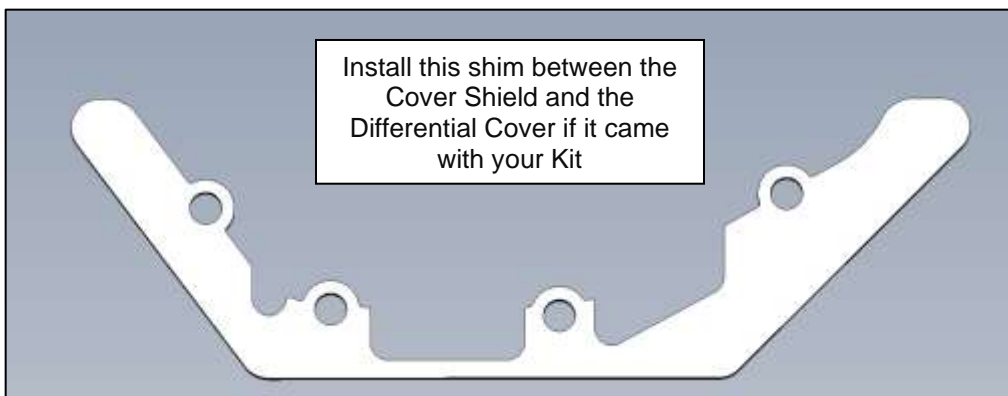


Figure 2

6. If you are also installing the Z1 Differential Shield, position the Differential Cover Shield over the shim (if applicable) and the Differential Shield. Insert the (4) four 5/16" Nuts through them and onto the Studs in the Differential Housing. *Figure 3* below shows the Differential Cover Shield installed onto the Differential Cover. If you are not installing the Z1 Differential Shield, skip to *Step 7*.



Figure 3

7. Torque the (4) four nuts on the studs to **30 ft-lbs.**
8. If you drained your Differential fluid in *Step 3*, refill it now as long as the RTV Gasket has cured for the proper amount of time. Refer to your Factory Service Manual for Fluid type and quantity.
9. Account for and remove tools.
10. Safely lower 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