

Z1 TITAN XD STAGE 2 FUEL FILTER CAP INSTALLATION MANUAL



This Installation Manual is intended for the following models:

2016-2019

Nissan Titan XD

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 Titan XD Stage 2 Fuel Filter Cap, consult with a Professional Mechanic or contact Z1 Off-Road for more information.

PARTS INCLUDED:

Item	Quantity	Description
1	1	Fuel Filter Cap
Optional Extras		
2	1	Fuel Filter Element
3	1	O-Ring

TOOLS REQUIRED:

- Ratchet
- 22mm Socket
- 1 1/8" Socket
- Torque Wrench
- Silicone Spray

SAFETY REQUIREMENTS:

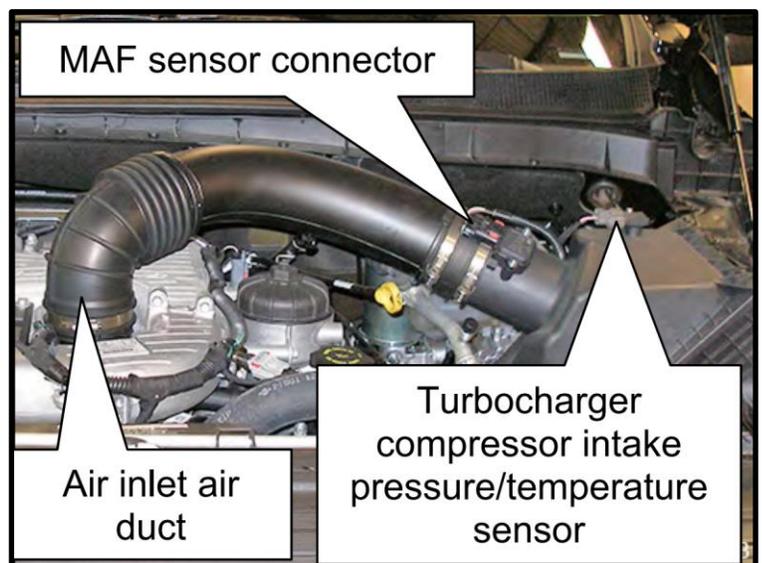
- Always wear safety glasses and any necessary protective garments. If using any fluids, chemicals, or solvents, a respirator is recommended.
- Always use properly rated jack stands when working under your vehicle.
- Always keep limbs and parts away from moving drivetrain parts.
- Only operate drivetrain in safe space and well-ventilated areas.

BEFORE YOU BEGIN:

Remove contents from the Z1 Off-Road Titan XD Stage 2 Fuel Filter Cap Kit and verify that ALL necessary hardware is present.

PROCEDURE:

1. Assure the car's ignition is in the OFF position and the NEGATIVE (-) battery terminal is disconnected on **BOTH** batteries.
2. Place the transmission in Park position (or in Reverse gear if equipped with a manual transmission). Apply the parking brake.
3. Unlatch and raise vehicle's hood. Apply hood prop.
4. Disconnect MAF sensor connector.
5. Disconnect the turbocharger compressor intake pressure/temperature sensor.
6. Clean the area around the stage 2 fuel filter.
7. Remove the air cleaner lid and air inlet connection air ducts.
8. Cap or wrap the air inlet ducts with suitable material to avoid debris or contaminants from entering the inlet system or engine.



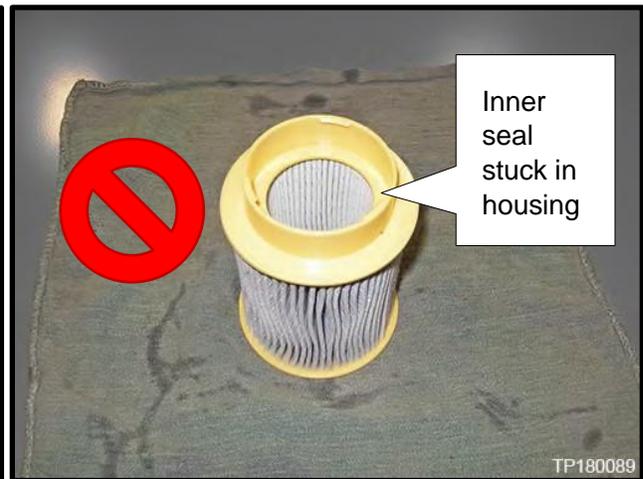
9. Using a 1 1/8" socket or wrench, remove the fuel filter lid from the housing.

Note: Remove lid slowly to avoid fuel spillage.



10. The fuel filter element will come out with the lid. Remove the old filter.

11. Inspect old fuel filter element to verify the inner seal is present. Remove inner seal from inside of fuel filter housing if inner seal is missing, as shown below.



12. Locate Z1 Fuel Filter Cap and O-ring if you are not reusing the originals. Secure O-ring to fuel filter cap in the groove above the threads.

Note: It is recommended to use a new fuel filter element and O-ring during this installation.



13. Locate and install the fuel filter element onto the standpipe in the fuel filter housing.

Note: Assure the filter element is seated in the housing by pushing downward on the top of the element. If the filter is not fully seated in the housing after installation, the engine may throw a P008A code, and/or have issues starting.

14. Using a **6 point** 22mm socket, install the Z1 Fuel Filter Cap. Torque to **25Nm (18ft-lbs)**. It is highly recommended to use silicone spray (or equivalent) to lubricate the O-ring.

Note: Assure that the fuel filter cap fully bottoms out on the housing and then torque to the specifications above. The cap may hit the 25Nm torque spec, due to the O-ring, before bottoming out. The cap should be seated as shown at right.



15. Reconnect the batteries.

16. Prime the fuel system.

- a. Turn the ignition ON for 90 seconds.
- b. After 90 seconds, crank the engine for NO MORE than 30 seconds to start the engine.
- c. If the engine does not start, repeat steps A and B until engine starts.
- d. Once the engine does start, it may operate erratically and with increased noise for a few minutes. This is a normal condition as air is being removed from the fuel system.



17. Start vehicle. While at idle, check for leaks or faulty operation of fuel filter cap.

18. Lower hood of vehicle. Perform a final test drive of vehicle.

END

Additional Technical Support:

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