

TITAN pt. no.: 04 0000 0109

Important: Please read these instructions carefully and completely before starting the installation.

TITAN Fuel Tanks™

INSTALLATION INSTRUCTIONS



50 Gallon Extended Capacity Replacement Tank for NISSAN, Titan XD, Crew-Cab Diesel Pickup Trucks

7040216 For 2016+ NISSAN, Titan XD Diesel Pickup: Crew Cab, 6 ft. 7 in. Bed

No fabrication, drilling, or cutting is required for this installation.

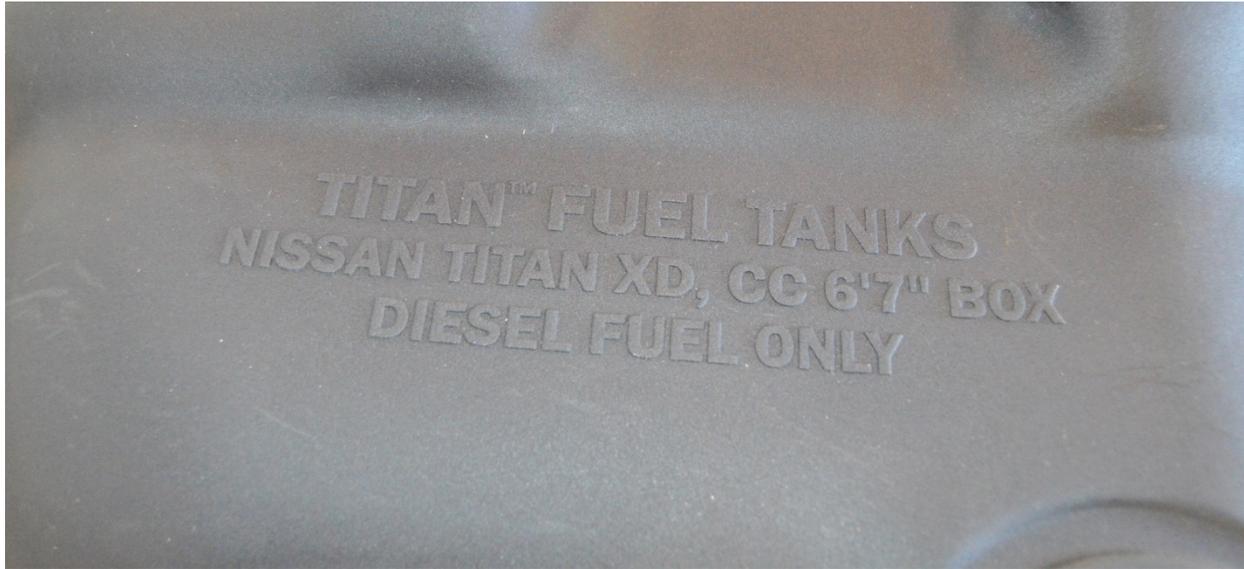
Required Tools:

- 1 ea. Ratcheting socket driver
- 1 ea. 8 mm socket
- 1 ea. 10 mm socket
- 1 ea. 14 mm socket
- 1 ea. 16 mm socket
- 1 ea. 17 mm socket
- 1 ea. 19 mm socket
- 1 ea. 12 inch long socket driver extension
- 1 ea. 16 mm end wrench
- 1 ea. 19 mm end wrench
- 1 ea. Torque Wrench
- 1 ea. Small flat blade screw driver
- 1 ea. Large flat blade screwdriver
- 1 ea. Hammer
- 1 ea. Rubber Mallet

Recommended Optional Tools:

- 1 ea. Hydraulic transmission jack
- 1 ea. Impact wrench
- 1 ea. Vehicle Lift
- 1 ea. TITAN Fuel Caddy™ to transfer fuel.

Tank Body Identification:



Note: The tank body has the above identification on its top. Please check to be sure the tank is properly identified as the one to fit your vehicle.

7040216 PARTS LIST

2016 NISSAN TITAN XD MIDSHIP REPLACEMENT TANK - 7040216		
DESCRIPTION	TITAN PART NUMBER	QUANTITY
2016 Nissan Titan Tank Body	04 0000 0100	1
Dodge Flat Gasket	98 0000 0401	1
Dodge Half Flange	98 0000 0400	2
Dodge Top Flange	02 0000 0183	1
3/8" Push Nut Retainer	02 0000 0162	8
O-Ring #358, Viton	04 0000 0105	1
3/8" Nylon Thin Locknut, Grade 8	02 0000 0163	8
Brass Roll Over Valve	99 0000 0137	3
5/16 RLA Fuel Hose, 1-1/2" Length	99 0000 0520	2
Transmission Vent Cap	99 0000 0519	3
5/16 RLA Fuel Hose, 41" Length	04 0000 0106	1
Snap In Plastic Hose Clip, 1/2" -5/8" Clip Range	04 0000 0107	1
3/8 BSP x 15 mm Adapter, 304 Stainless Steel	04 0000 0108	1
Nissan Titan Strap Set	04 0100 0000	1

Nissan Titan Front Support Set	04 0101 0000	1
Nissan Titan Mid Support Plate	04 0000 0103	1
1/4"-20 x 1-1/2" Cap Screw, Grade 5 Zinc-Plated Steel	99 0000 0836	2
1/4" Screw Size, Steel Unthreaded Spacer, 3/4" Length, 5/8" OD	99 0000 0837	2
1/4"-20 Nylon Locknut, Grade 5 Zinc-Plated Steel	99 0000 0838	2
1/4" SAE Flat Washer, Zinc-Plated Steel	99 0000 0719	2
1/2"-13 x 4-1/2" Cap Screw, Grade 8 Zinc-Plated Steel	99 0000 0784	2
1/2"-13 Nylon Locknut, Grade 8 Zinc-Plated Steel	99 0000 0156	3
1/2" Flat Washer, Grade 8 Zinc-Plated Steel	99 0000 0685	6
1/2"-13 x 1-1/2" Cap Screw, Grade 8 Zinc-Plated Steel	99 0000 0839	1
M8 x 1.25, 140 mm Length Cap Screw, Class 8.8 Zinc-Plated Steel	99 0000 0840	2
5/16" Oversized Flat Washer, 1-1/2" OD, Zinc-Plated Steel	99 0000 0841	2
Part Carton, 12" X 7" X 7"	99 0000 0842	1
Carton, 93" L X 19.5" W X 18.5" H	04 0000 0104	1
Instructions	04 0000 0109	1

IMPORTANT NOTICE: Before installation, be sure to thoroughly inspect inside of the tank for ANY foreign debris!

NOTE: Take a moment and write the new TITAN™ Tank serial number in the back of this instruction booklet now. The serial number is found on the bottom of tank.

Nissan Titan XD vehicles with Cummins engines sometimes experience loss of Low Pressure Pump prime. This causes an “Extended Crank” condition or a “Low Fuel Rail Pressure” indicator light. This happens with both stock fuel tanks and aftermarket fuel tanks. This condition occurs most often when the tanks are ¼ or less full. As of now Nissan’s solution to the problem is shown below*. Check with your Nissan dealer to find the latest updates.

PURGE AIR OUT OF THE FUEL SYSTEM AFTER SERVICING THE FUEL SYSTEM, OR AFTER REFILLING A COMPLETELY EMPTY FUEL TANK [OR AFTER EXPERIENCING A “LOW FUEL RAIL PRESSURE” OR “EXTENDED CRANK” CONDITION] BY THE FOLLOWING PROCEDURE:

1 Turn the ignition ON (foot off brake, push ignition twice), and wait for 90 seconds to prime the fuel system. After 90 seconds, crank the engine for a maximum of 30 seconds or until the engine starts. If the engine does not start, repeat this step.

2 When the engine does start, it may operate erratically and with increased noise levels for a few minutes. This is a normal condition as air is being removed from the system.

*Nissan: NTB18024

I. Remove Original Equipment Tank

<u>Step</u>	<u>Description</u>
1	Using best, safe practices, place the vehicle on a hoist that leaves the entire underside of the frame unobstructed.
2	Drain all the fuel from the original equipment (OEM) tank using a TITAN Fuel Caddy™, or a pump, or siphon.
3	Remove the factory shield from the bottom of the tank (See Fig. 2).
4	Disconnect the fill hose and vent line from the vehicle’s fill spout (See Fig. 1).
5	Support the OEM tank.
6	Remove the shield from the front of the filter/water separator (See Fig. 3).
7	Loosen and remove OEM tank straps by first undoing the bolts on straps at inboard side of the tank. Lower tank a few inches.
8	Remove the metal fuel line protector and disconnect fuel gauge electrical connection and fuel lines from sending unit on top of the tank (See Fig. 4).
9	Remove the OEM tank from the vehicle.



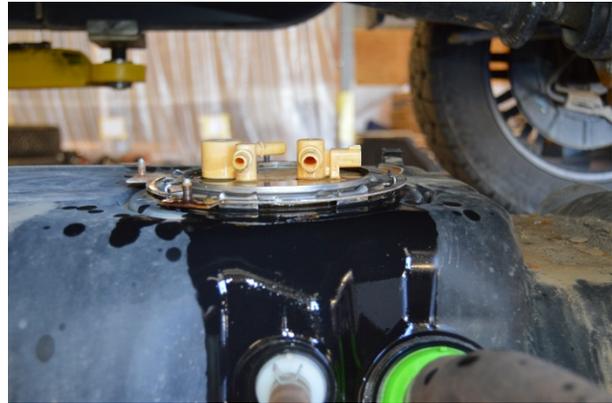
(Fig. 1) Loosen and disconnect fill hose and vent line from vehicle's fill spout.



(Fig. 2) Remove factory shield.



(Fig. 3) Remove shield from front of filter/water separator.



(Fig. 4) Disconnect fuel gauge electrical connection and fuel lines from tank.

II. Prepare Vehicle and Replacement Tank

Step	Description
10	Loosen the OEM hold-down ring on the sending unit by turning it counter-clockwise (See Fig. 5). Remove the sending unit from the OEM tank.
11	The new TITAN tank comes with an O-ring to seal for the sending unit. Make sure the new O-ring gasket is placed into the gland (groove) at the sending unit opening.
12	Place the sending unit into the TITAN tank (See Fig.7). Be sure to turn the sending unit so that the tab lines up with the "tab location" marks on the tank (See Fig. 6).
13	Place the top flange onto the sending unit and thread on the nylon lock nuts.
14	Tighten the nylon lock nuts to 20 lb--feet using a "star" pattern. <u>Be sure to check with a torque wrench.</u>
15	Move the fill hose and vent hose from the OEM tank to the new TITAN tank, install and tighten securely.

- 16 The Front Support Bracket will need to be partially assembled now. Start by installing the $\frac{1}{4}$ " x $1\frac{1}{2}$ " bolts, $\frac{1}{4}$ " flat washers, $\frac{1}{4}$ " x $\frac{3}{4}$ " spacers, and $\frac{1}{4}$ " nylock nuts into the Inside Frame Piece as shown in Fig. 9. Be sure they are tightened snugly.
- 17 Place the Inside Frame Piece on the inside of the vehicle frame, at the front of the tank, as shown in Fig. 10. Thread $\frac{1}{2}$ " x $4\frac{1}{2}$ " bolts and $\frac{1}{2}$ " flat washers through the Inside Frame Piece and vehicle frame as shown in Fig. 11.
- 18 After the tank is lifted into place the Bottom Piece will be installed using a $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolt as shown in Fig. 12.



(Fig. 5) Loosen sending unit hold-down ring by turning it counter-clockwise.



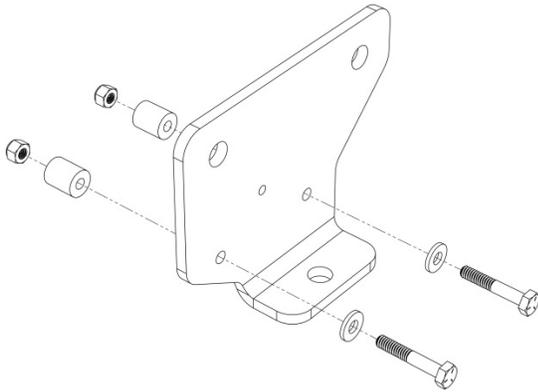
(Fig. 6) Line the tab on the sending unit up with the "tab location" mark on the TITAN tank.



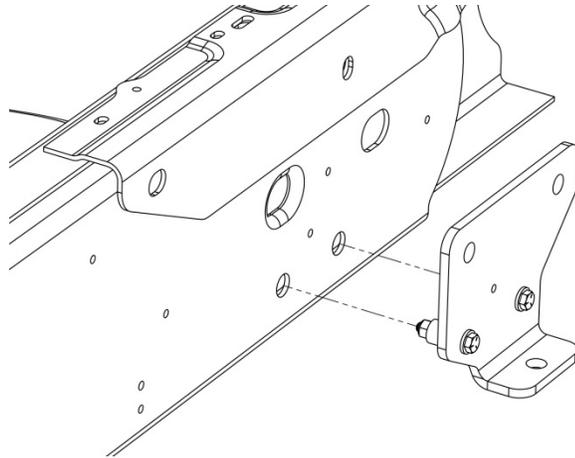
(Fig. 7) Place the sending unit in the TITAN Tank.



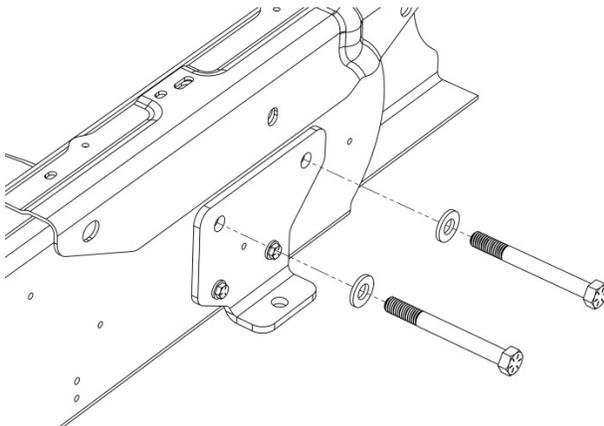
(Fig. 8) After placing the sending unit into the TITAN tank, install the top flange, and tighten the nylon lock nuts to 20 lb. ft. using a "star" pattern using a torque wrench.



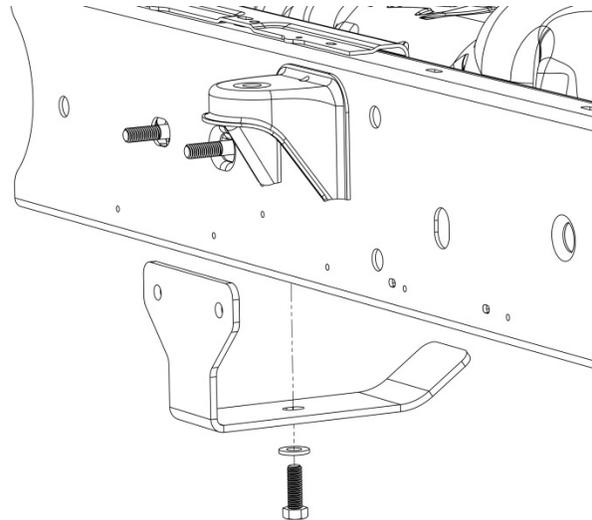
(Fig. 9) Install the 1/4" x 1 1/2" bolts, 1/2" flat washers, 1/4" x 3/4" spacers and 1/4" nylock nuts into the Inside Frame Piece as shown above.



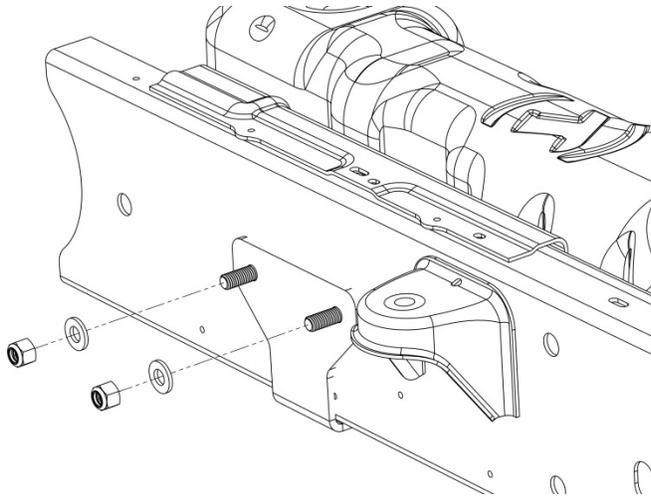
(Fig. 10) Place the Inside Frame Piece onto the inside of the vehicle frame at the front of the tank, as shown.



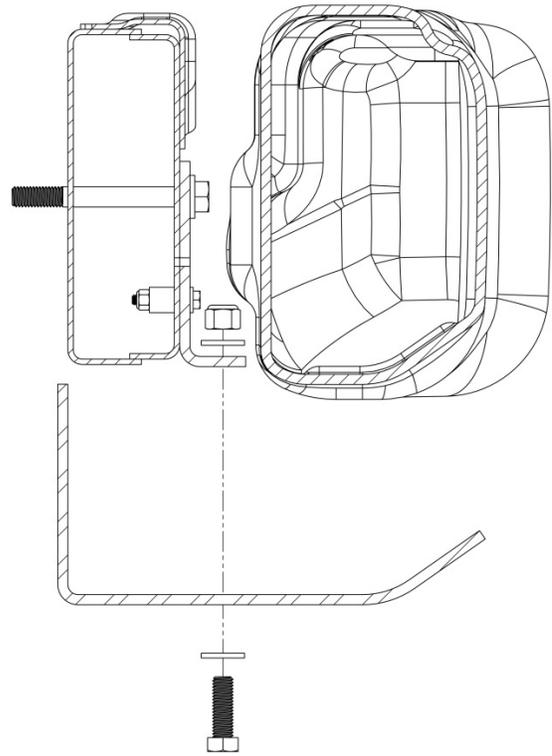
(Fig. 11) Place the Inside Frame Piece against the vehicle frame and thread 1/2" x 4 1/2" bolts with 1/2" flat washers through the Inside Frame Piece and the vehicle frame as shown.



(Fig. 12) After the tank is lifted into place the Bottom Piece will be installed as shown.



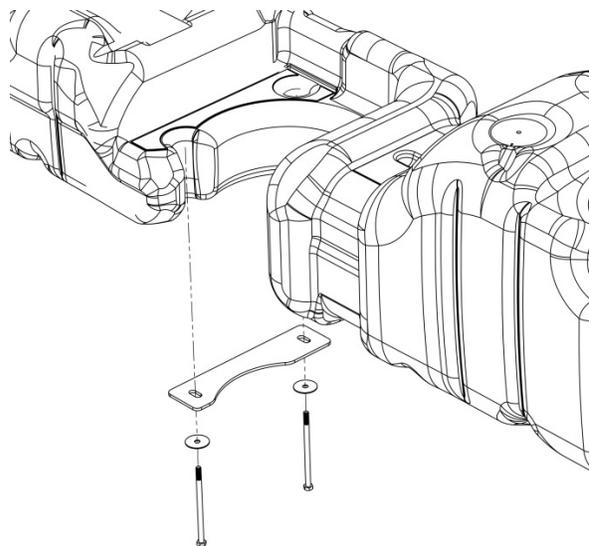
(Fig. 13) 1/2" x 4 1/2" bolts are threaded through Bottom Piece of Front Support Bracket.



(Fig. 14) Bottom Piece of Front Support is also secured by 1/2"x1 1/2" bolt as shown.



(Fig. 15) Front Support Bracket Installed.



(Fig. 16) Exploded view of Center Point Mounting System.



(Fig. 17) Center Point Mounting System installed.

III. Install Replacement Tank in Vehicle

- | Step | Description |
|-----------|--|
| 19 | Support the TITAN tank and lift it nearly into place leaving enough space to be able to reach up and plug the fuel gauge electrical connection and the fuel and return lines onto the sending unit. |
| 20 | After plugging in the electrical connection and fuel lines on the sending unit, lift the tank all the way into place. Install both of the provided straps finger tight. |
| 21 | On the bottom of the Front Support Bracket, install the Bottom Piece as shown in Figs. 12-14. Torque all ½” bolts to 40 lb.-ft. with a torque wrench. |
| 22 | Now tighten the two straps to the vehicle manufacturer’s specifications. |
| 23 | See Fig. 16 which shows an exploded view of the Center Point Mounting System. The bolts screw into the nuts which previously held the shield in front of the filter/water separator. Fig. 17 shows the mounting installed. Torque the bolts to 8 lb.-ft. |
| 24 | Reconnect the fill hose and vent line to the vehicle’s fill spout. |
| 25 | Make sure ALL mounting hardware, clamps, bolts, etc. are properly installed and TIGHT. Double check it. |
| 26 | <u>IMPORTANT! Lower vehicle, fill tank completely with diesel fuel and check for leaks.</u> |
| 27 | PURGE AIR OUT OF THE FUEL SYSTEM AFTER SERVICING THE FUEL SYSTEM, OR AFTER REFILLING A COMPLETELY EMPTY FUEL TANK [OR AFTER EXPERIENCING A “LOW FUEL RAIL PRESSURE” OR “EXTENDED CRANK” CONDITION] BY THE FOLLOWING PROCEDURE: |
| | 1 Turn the ignition ON (foot off brake, push ignition twice), and wait for 90 seconds to prime the fuel system. After 90 seconds, crank the engine for |

a maximum of 30 seconds or until the engine starts. If the engine does not start, repeat this step.

2 When the engine does start, it may operate erratically and with increased noise levels for a few minutes. This is a normal condition as air is being removed from the system.

NOTE: It is possible for a warning or indicator light to illuminate due to air entering the fuel system.

Nissan: NTB18024



Installation Complete!

Go to TITAN's website to view video installation instructions and tips.

* All capacities are approximate

Be sure to return the completed warranty registration for your new Titan fuel tank; or you can register on-line at www.titanfueltanks.com

You will find your tank's serial number located on the bottom of the tank.

Write your tank's Serial Number here: _____

A tank must be registered within sixty (60) days of receipt for the warranty to be valid.

Warranty is void if product is improperly installed.

For questions or customer service call **(800) 728-4982**



TITAN Fuel Tanks

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TITAN Fuel Tanks are PROUDLY MADE IN THE USA

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