

TITAN pt. no.: 01 0000 0625

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

TITAN Fuel Tanks INSTALLATION INSTRUCTIONS Generation 5 & 7



7010511: For **2011-16** GM truck models 2500HD & 3500HD: Extended Cab & Crew Cab, Long Bed (8 ft.)

Required Tools:

- 1 ea. Ratcheting socket driver
- 1 ea. 13 mm socket
- 1 ea. 12 inch long socket driver extension
- 1 ea. 8 mm end wrench
- 1 ea. 8 mm socket
- 1 ea. 5/8 inch socket
- 1 ea. 5/8 end wrench
- 1 ea. Medium flat blade screw driver
- 1 ea. Needle nose pliers
- 1 ea. Torque wrench handle for socket
- 1 ea. Mallet or small hammer
- 1 ea. Razor blade or sharp bladed knife.
- 1 ea. Hook pick or small ice pick
- 1 ea. Diagonal Cutters
- 1 ea. Hacksaw

Recommended Optional Tools:

- 1 ea. Transmission jack
- 1 ea. Vehicle hoist
- 1 ea. Impact wrench
- 1 ea. Sawzall with Blades
- 1 ea. Hand grinder-sander

Note: If tank is to be installed without the use of a vehicle hoist, provision must be made to be able to raise the vehicle high enough so that the front of the tank can be angled over the frame's tubular steel cross member.

Note: Installation of Titan Tank will vary depending on truck configuration. Section III of instructions will correspond to the following:

2011-2016 Extended Cab, Long Bed - Page 8

2011-2016 Crew Cab Long Bed with Two Piece Driveline - Page 10

2013-2016 Crew Cab Long Bed with One Piece Driveline - Page 12

Parts List:

1ea. Extra heavy-duty, 60* gallon, cross-linked polyethylene (XLHDPE) fuel tank

Tank Body Identification: "GM CC & XCLB, 7010311

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

The following parts (Sending Unit Mounting Assembly) should already be installed on the tank (top flange and 5/16" nylon locking nuts should be loosely installed).

- 1 ea. Sending Unit Mounting Assembly, consisting of:
 - 2 ea. 01 0000 0137 Stainless steel half flange with 3/8" studs (mounted inside tank)
 - 1 ea. 01 0000 0139 Flat flange gasket (mounted inside tank)
 - 8 ea. 02 0000 0162 3/8" flat retainers
 - 1 ea. 01 0000 0110 "O" Ring sending unit gasket (primary "O" ring gasket)
 - 1 ea. 01 0000 0138 Top sending unit flange
 - 8 ea. 02 0000 0163 3/8" nylon locking nuts

- 1 ea. 01 0113 0000 A Rear tank strap, longer strap
- 1 ea. 01 0113 0000 A Front tank strap, shorter strap
- 2 ea. 99 0000 0103 Extruded Bushings
- 1ea. 01 0115 0000 GM Crew Cab Front Support Kit for 2013+ Long Bed Vehicles with One Piece Drive Shafts
- 1ea. 01 0114 0000 GM Crew Cab Front Support Kit for 2011+ Long Bed Vehicles with Two Piece Drive Shafts

Note: The General Motors tank straps are identified by designations cut into the very bottom of the strap or on one side. See “tank strap” part numbers above.

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

I. Remove Original Equipment Tank

Step	Description
1	Safely lift the vehicle on a hoist, leaving the frame underside clear.
2	Drain all the fuel from the OEM tank using a pump or siphon.
Note: Remove the rear of the drive shaft for more working clearance.	
3	Remove OEM tank plastic shield or shell (if equipped).
4	Support the OEM tank.
5	Disconnect the fill hose from the tank's king nipple.
6	Disconnect fuel lines at the front of the tank near the frame. Leave them resting on the tank for now.
7	Loosen and remove OEM tank straps by undoing the bolts at outside of tank and unhook straps on the inside and lower tank a few inches.
8	Disconnect vent line hose from sending unit at the top of the tank.
9	Disconnect fuel gauge electrical connection from sending unit.
10	Remove the OEM tank from the vehicle.

II. Prepare Vehicle and Replacement Tank

Step	Description
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| 11 | Use hook pick or small ice pick to disconnect the fuel lines from the sending unit. |
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- | | |
|----|--|
| 12 | Loosen the OEM sending unit hold-down ring by tapping it counterclockwise with a mallet and screwdriver. Note the orientation (“clocking”) of the sending unit tab and electrical plug; reinstall at the same angle. Remove the sending unit and discard the factory O-ring seal. (fig. 2) |
|----|--|



- 13 Remove the 3/8" nylon lock nuts and top flange from the new TITAN tank. Leave the O-ring, studs, and retainers in place.



- 14 Verify both internal half flanges are flat, seated properly, and not overlapping. Ensure the flat gasket is between the flanges and tank wall.
- 15 If the sending unit's top ribs interfere with the flange, shave approximately 1/16" off both ribs or remove the rib closest to the electrical plug using diagonal cutters and a grinder. Smooth the surface completely.



- 16 Place the sending unit into the TITAN tank with the O-ring properly seated. Ensure the tank interior is clean and free of any debris before installation.

- 17 Align (clock) the sending unit so fuel fittings and electrical connections match OEM orientation. If mounting studs interfere, trim about ½" off the tab near the electrical connector and rotate the unit slightly clockwise to clear.



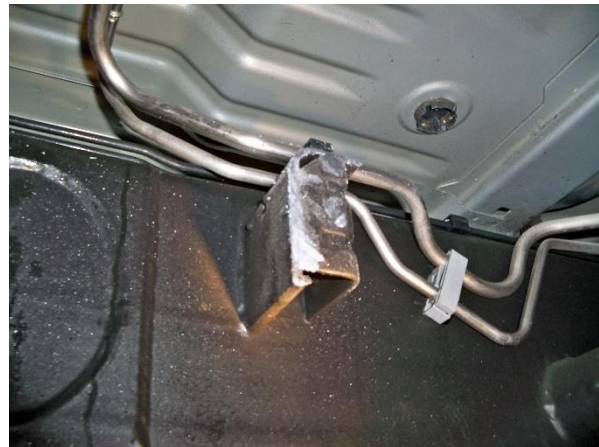
- 18 Reinstall the top flange over the sending unit and secure with 3/8" nylock nuts.
- 19 Torque nuts to **20 ft-lbs** in a star pattern—start with studs nearest where the half flanges meet. Recheck torque after 15 minutes.



- 20 Reattach suction and return lines to the sending unit, then lay them into the molded fuel-line groove on the tank top. Secure with snap ties if desired.



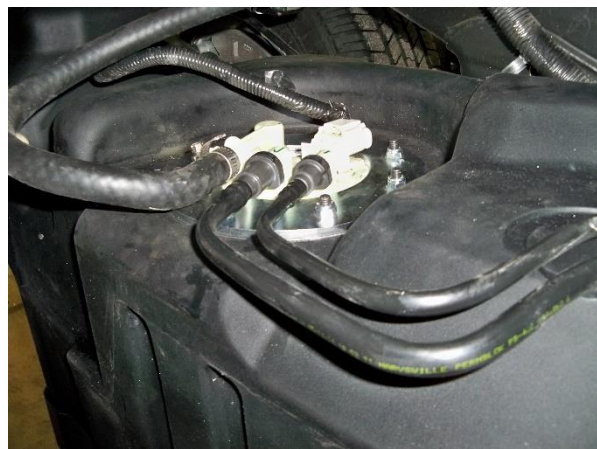
- 21 Cut off the end of the small jig bracket located in front of the OEM tank (just past its weldment) using a saw or grinder. Leave the U-shaped weldment intact to support the fuel lines.



III. Install Replacement Tank in Vehicle

2011-2016 Extended Cab, Long Bed

- | Step | Description |
|------|--|
| 22 | Reuse OEM mounting brackets and bolts. |
| 23 | Place tank on a transmission jack and angle the front upward to clear the round crossmember behind the transmission. Raise tank enough to reconnect the sending unit electrical connector and vent hose. |



- 24 Once connections are secure, lift the tank fully into position.
- 25 Center the provided rubber bushings in the strap bottoms (channel side toward strap) and press them in firmly.



- 26 Attach outer strap ends and tighten bolts to factory torque. Tap straps with a mallet if needed to seat them evenly.
- 27 Attach the fill hose to the king nipple on the replacement fuel tank and clamp tightly. Reconnect the fuel lines at the top front of the tank.



- 28 Verify **ALL** hardware, clamps, and fittings are properly installed and tight.
- 29 **Lower vehicle, fill tank completely with diesel fuel and check for leaks. IMPORTANT!**

III. Install Replacement Tank in Vehicle

2011-2016 Crew Cab Long Bed with Two Piece Driveline

Step	Description
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- | | |
|----|-------------------------------|
| 22 | Reuse OEM brackets and bolts. |
|----|-------------------------------|

- 23 Lift the tank with a transmission jack. Reconnect the sending unit electrical connector and vent hose. Slide the hanger bracket from the **Front Support Kit (PN 01 0114 0000)** under the tank's front and hook it over the formed frame crossmember. Place one **Extruded Rubber Bushing (PN 99 0000 0113)** between the hanger and tank.



- 24 Lift the tank fully into place.
- 25 Install and center strap bushings (channel side toward strap). Press them in firmly.



- 26 Attach outer strap ends and tighten bolts to factory specifications. Tap straps straight with a mallet if necessary.
- 27 Reconnect the fill hose to the king nipple and clamp securely. Reconnect fuel lines at the tank's front.
- 28 Verify all hardware, clamps, and fittings are tight.
- 29 **Lower vehicle, fill tank completely with diesel fuel and check for leaks.**

III. Install Replacement Tank in Vehicle

2013-2016 Crew Cab Long Bed with One Piece Driveline

Step	Description
22	Reuse OEM brackets and bolts.
23	Lift tank on a transmission jack and reconnect the sending unit electrical connector and vent hose.



- 24 Raise the tank into position. Install the hanger bracket from the **Front Support Kit (PN 01 0115 0000)** under the tank's front. Secure the two-piece support bracket to the frame using **two ½" x 1⅜" Grade 5 cap screws**. Place one **Extruded Rubber Bushing (PN 99 0000 0113)** between the support and tank.
- 25 Install and center strap bushings (channel side toward strap) and press firmly into place.



- 26 Attach outer strap ends and tighten bolts to factory specifications. Tap straps straight with a mallet if necessary.
- 27 Reconnect the fill hose to the king nipple and clamp tightly. Reconnect fuel lines at the tank's front.
- 28 Verify all mounting hardware, clamps, and bolts are tight.
- 29 Lower vehicle, fill tank completely with diesel fuel and check for leaks. IMPORTANT!**

Gen 7 XXL Tank Drilling Instructions

Important: These instructions only apply if installing a Gen 7 accessory kit. Please read through all instructions fully before starting.

Step 1: Remove the Plug

- Begin by safely removing any existing plug or cap from the tank to allow access to the area you'll be drilling.

Step 2: Set Up a System to Catch Shavings

- To prevent debris from entering the tank and causing damage, set up a system to catch the plastic shavings. Options could include:
 - Placing a rag or cloth inside the tank to catch the shavings.
 - Using a vacuum with a hose directed at the drilling site to suck up the shavings as you work.

Step 3: Drill the Holes

- Start with a small pilot drill bit, and gradually increase the drill bit size to achieve the desired hole diameter. A small amount of grease on the drill bit can catch some of the plastic shavings from falling into the tank.
- Be careful to drill as large as possible without damaging the threads or surrounding plastic. Take your time, and avoid contacting the threads.

- Be careful to drill only the necessary holes for the intended kit.



Fast Fill Kit



Universal Pickup Tube and Return System

Step 4: Trim the Inside of the Holes

- After drilling, use a razor blade or utility knife to carefully trim the inside of the hole, ensuring it's flush with the threads. This step helps smooth out any rough edges and ensures a clean fit for the fittings.

Step 5: Clean the Tank

- Once you've finished drilling and trimming, carefully remove all plastic shavings from inside the tank. Use compressed air, a vacuum, or a damp cloth to ensure the tank is completely free of debris. This is crucial to avoid any plastic pieces entering the fuel system, as they could cause damage or clog components.

Gen 7 Fast Fill Vent Kit (9901770) Install

Step 1: Drill Out Holes

- Follow the drilling instructions above carefully.

Step 2: Apply Thread Seal Tape

- wrap the threads of the valve in thread seal tape (Teflon tape).

Step 3: thread valve into tank

- Carefully thread the roller valve into the tank, ensuring you do not cross-thread it.

Step 4: Tie Up Vent Hoses

- Tie up vent lines so there are no droops or sags in the hose that might trap air or fuel.



* All capacities are approximate

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

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 approximately ½ way up the driver's side located towards the rear of the tank; adjacent to the sending unit.

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



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