

TITAN PN: 01 0000 0122

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

TITAN™ Fuel Tanks

INSTALLATION INSTRUCTIONS Generation 5 & 7



TITAN Models 7010501 & 7010301: For Chevrolet / GMC models 2500 & 3500, model years 2001-2010, with Duramax diesel engines: Extended Cab Short Bed and Crew Cab Long Bed

Required Tools:

- 1 ea. Ratcheting socket driver
- 1 ea. ½" socket
- 1 ea. 8 mm socket
- 1 ea. 13 mm socket
- 1 ea. 5/8" socket
- 1 ea. Torque wrench handle to fit ½" socket
- 1 ea. ½" end wrench
- 1 ea. 11 mm end wrench
- 1 ea. Large flat blade screwdriver
- 1 ea. Medium flat blade screwdriver
- 1 ea. Diesel fuel line release tool
- 1 ea. Razor blade or sharp box cutting knife
- 1 ea. Small mallet or hammer.

Optional Recommended Tools:

- 1 ea. Hydraulic transmission jack
- 1 ea. Vehicle hoist

Parts List:

- 1 ea. Extra heavy-duty cross-linked polyethylene (XLHDPE) fuel tank for one of the following General Motors diesel trucks:

Extended Cab, Short Bed
Crew Cab, Long Bed

Tank Identification: "GM EXSB"
Tank Identification: "GM CCLB"

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

The following parts (Sending Unit Mounting Assy) should already be installed on the tank (top flange and 3/8" nylon locking nuts should be loosely installed).

- 1 ea. Sending Unit Mounting Assembly, made of:
- | | | |
|-------|--------------|--|
| 2 ea. | 01 0000 0137 | Stainless steel ½ flanges with 3/8" welded 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 |
- 2 ea. Roll-over, fill-stop vent valves (installed in top of tank)
2 ea. 5/16" vent hoses with caps
1 ea. Rear cradle bracket
2 ea. 99 0000 0103 Extruded Bushings
1 ea. 01 0104 0000 Front Cross Member assembly
2 ea. Nylon Quick Ties

Note: The General Motors straps are identified by designations stamped into them. These designations are:

Crew Cab Long Bed

Cradle (front and rear straps tied together) Front &/or Rear = 01 0107 0000

Extended Cab Short Bed

Cradle (front and rear straps tied together) Front &/or Rear = 01 0109 0000

Optional Parts List:

- 1 ea. "LB7 Kit", including:
 - 1 ea. 12 ga. Intermediate Top Flange (3 3/4" inside diameter)
 - 1 ea. 12 ga. LB7 Top Flange (3 3/8" inside diameter)
 - 1 ea. "O" Ring for LB7 sending unit (smaller than primary "O" ring gasket)

For trucks equipped with LB7, LLY, LBZ and LMM engines:

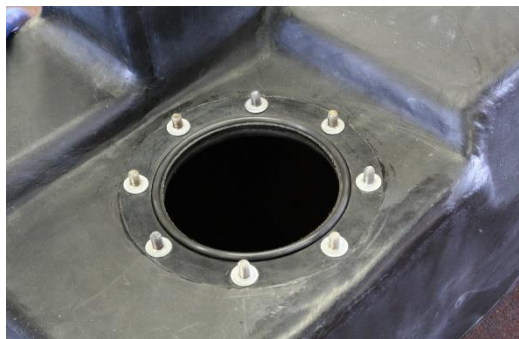
IMPORTANT NOTICE: *Before installation, be sure to thoroughly inspect inside of the tank for ANY foreign debris!*

- | Step | Description |
|------|--|
| 1 | Place the vehicle on a hoist, ensuring full access to the underside of the frame. Remove the rear of the drive shaft for more working clearance. |
| 2 | Drain all the fuel from the original equipment tank using a pump or siphon. Note: Some GM tanks contain a fill inlet screen that may prevent siphon access. If so, drive the vehicle until fuel is as low as possible. |
| 3 | Disconnect the 1½" fill hose and ¾" vent line from the fill spout. Leave them attached to the tank. Note: On some models, removing the driver's side rear wheel and inner fender liner may be required for better access. |
| 4 | Remove bolts and drop fuel cooler located at the front of tank to gain access to lines on top of tank. |
| 5 | Disconnect fuel gauge electrical connection, feed line and return line from sending unit. Note: Use fuel line release tool to remove fuel lines from sending unit. |
| 6 | Support OEM tank. |
| 7 | Loosen and remove the two (2) 15 mm bolts on outside of straps. |
| 8 | Remove original equipment tank with its straps from vehicle. |
| 9 | Move the wiring harness, differential breather hose, and brake line to the top of the frame to clear space for the new tank. If equipped with a gooseneck or 5th wheel wiring harness, secure it behind the new tank after installation. |
| 10 | Remove feed and return lines from sending unit and reinstall in factory position on truck. |

- 11 Reinstall fuel cooler.
- 12 Remove the OEM sending unit by tapping the factory flange counterclockwise with a hammer and large screwdriver until it releases. Leave the factory O-ring behind and do not reuse it.

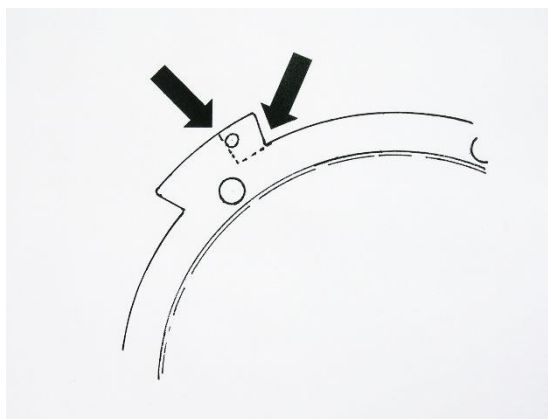


- 13 On the new Titan tank, remove the 3/8" nylon lock nuts and top flange. Make sure the O-ring gasket is in place under the flange. Check that the inner flanges inside the tank are flat, properly seated, and not overlapping.



Standard Models (Steps 14-18)

- 14 Check that the sending unit tabs fit through the new tank opening. If interference occurs, trim the tab slightly for clearance.



- 15 Place the sending unit on top of the O-ring gasket inside the tank opening.
- 16 Rotate the sending unit so the fuel fittings match the same angle as the OEM tank. If the fittings are off-angle, the lines will not connect correctly and the float may contact the tank wall, affecting gauge operation.



- 17 Install the top flange back onto the studs and hand-tighten the lock nuts.
- 18 Tighten the nuts in a star pattern to 20 ft-lbs using a torque wrench. Start with the studs near the flange seams. After 15 minutes, recheck torque.



LB7 (Use these instead of previous steps 14-18)

Note: Older trucks equipped with LB7 engines (2001 to early 2004) require an additional "LB7 Kit." If you are installing on an LB7 and the kit was not ordered, contact your Titan dealer to obtain one.

- 14 Install strap bushing for tank: Place a rubber bushing, channel side down on the bottom of the front strap (the one that is flat, not curved) of the rear mounting cradle, centering it in the bottom of the inside of the strap, and press securely.
- 15 Slide the smaller O-ring from the LB7 Kit over the sending unit and position it at the base of the unit's top.

- 16 Carefully place the sending unit into the tank on top of the intermediate flange, ensuring both O-rings are seated correctly. Rotate the unit so the fittings match the same angle as the OEM tank.
- 17 Place the smaller inside-diameter “LB7 Top Flange” from the kit over the studs to secure the sending unit.
- 18 Tighten the 3/8" nylon lock nuts evenly in a star pattern to 20 ft-lbs. Wait 15 minutes and recheck torque.
- 19 Place the tank on a transmission jack and lift it slightly to reconnect the sending unit electrical plug, return and feed hoses, and main vent line.
- 20 The tank is equipped with rollover valves and vent lines on the front and rear. Route both vent hoses so their ends are higher than the fill tower.



- 21 Attach vent hoses to the vehicle body using the provided quick ties. Make sure the hoses slope downward to the valves with no sags, as these can trap fuel and prevent proper venting.



- 23 Raise the tank fully into position, confirming the vent lines are correctly routed and secured.
- 24 Hook the inboard side of the rear cradle into the factory mounting points. Start the 15 mm bolt on the outboard side halfway in, then start the front strap bolt to the same depth.
- 25 Check strap alignment and seating before tightening. Tighten all bolts to OEM torque specifications.
- 26 Install the front cross-bar support at the front of the tank. No drilling is required, but an optional locking hole can be added if desired for severe use.



- 27 Install the second rubber bushing (channel side down) centered in the cross-bar cradle and press securely into place
- 28 Hang the cross-member on the inboard side of the driver's frame rail first. Attach the tapered passenger-side bracket using two 5/16" bolts, washers, and nylon lock nuts.
- 29 Slide the cross-member rearward until it contacts and supports the tank. Ensure at least 1/4" clearance from any exhaust particulate filter.

Note: *If the truck is equipped with an exhaust particulate filter canister (it looks like a small muffler located in-line before the truck's main muffler), move the end of the cross-member support on the passenger's side of the frame one direction or the other (forward or rear) until you obtain 1/4" of clearance or more under the canister.*

- 30 Tighten the remaining 5/16" bolts into the welded nuts on both ends of the cross-bar.



- 31 Reconnect the fill and vent hoses and secure with clamps. Make sure there are no kinks and both hoses have a continuous downward slope. On LB7 models, cut 10 inches off the interior fill hose on the tank end before installing.



Trimmed hose on LB7

- 32 Verify all clamps, bolts, and mounting hardware are tight.
- 33 Reinstall the driveline assembly.
- 34 Lower vehicle, completely fill with diesel fuel and check for leaks. VERY IMPORTANT!**

How do you know if you need an LB7 Kit?

Answer: LB7 engines were used on all 2001 to 2003 General Motors diesel trucks. On 2004 models it is required if the eighth character in the VIN is a “1”. Contact your TITAN™ dealer if you have any questions.

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.



Important: Be sure that all vent lines are free of any sagging areas. Sags can fill with and trap fuel and prevent the vent lines from venting the tank. Slow filling, “spitting” and surging can result. Shorten vent lines and/or tie them to the body and chassis as needed to be sure they drain and do not trap liquid fuel.

* All capacities are approximate

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

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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