

TITAN pt. no.: 03 0000 0120

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

TITAN Fuel Tanks

INSTALLATION INSTRUCTIONS Generation 5 & 7



Extended Capacity Replacement Tanks for DODGE Diesel Trucks

7030210 & 7030210S For 2010-2012 DODGE truck models RAM 2500 & 3500 : (with pickup bed): Crew Cab, Short Bed (6 ½ ft.)

7030303 & 7030303S For 2003-2012 DODGE truck models RAM 2500 & 3500: (with pickup bed): Crew Cab, Long Bed (8 ft.)

Required Tools:

- 1 ea. Ratcheting socket driver
- 1 ea. 13 mm socket
- 1 ea. 16 mm socket
- 1 ea. 12 inch long socket driver extension
- 1 ea. 13 mm end wrench
- 1 ea. 9/16 inch socket
- 1 ea. 9/16 end wrench
- 1 ea. 5/8 inch socket
- 1 ea. 5/8 inch end wrench
- 1 ea. Medium flat blade screwdriver
- 1 ea. Needle nose pliers
- 1 ea. Torque wrench handle for socket

- 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. ½" Drill Bit (7030210 only)
- 1 ea. Electric or air powered drill (7030210 only)

Recommended Optional Tools:

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

7030210 Parts List:

1ea. Extra heavy-duty 56 gallon* cross-linked polyethylene (XLHDPE) fuel tank for DODGE diesel trucks:

Tank Body: Crew Cab, Short Bed 2010-2012

“Super Series”

Tank Body Identification: “DODGE CCSB
03 0000 0113”

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.*

1 ea. Sending Unit Mounting Assembly (already installed on the tank body), consisting of:

2 ea.	98 0000 0400	Stainless Steel ½ flanges with 3/8” studs (mounted inside tank)
1 ea.	98 0000 0401	Flat flange gasket (mounted inside tank)
8 ea.	02 0000 0162	3/8” flat retainers
1 ea.	02 0000 0106	“O” Ring sending unit gasket (primary “O” ring gasket)
1 ea.	02 0000 0183	Top sending unit flange
8 ea.	02 0000 0163	3/8” nylon locking nuts

1 ea. 99 0186 0000 Rollover Vent, Fill-Stop Valve with 1.5” hose and vent cap.

1 ea. 02 0000 0112 Hose Barb Elbow

1 ea. 03 0000 0121 ¾” x 14” Vent Line Hose, to be installed on hose barb of 02 0000 0112 above. This will be shortened to fit the individual application as part of the installation.

2 ea. 99 0000 0103 Rubber Strap Bushing, Extruded (*NOT included* when TITAN Custom Shield is included as with 7030303S).

1 ea. 03 0109 0000 DODGE “SS” 2010 Crew Cab, Short Bed Strap SET

7030303 Parts List:

1ea. Extra heavy-duty 60 gallon* cross-linked polyethylene (XLHDPE) fuel tank for DODGE diesel trucks:

Tank Body: Crew Cab, Long Bed 2003-2012
"Super Series"

Tank Body Identification: "DODGE CCLB
03 0000 0114"



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.

1 ea. Sending Unit Mounting Assembly (already installed on the tank body),
consisting of:

2 ea.	98 0000 0400	Stainless Steel ½ flanges with 3/8" studs (mounted inside tank)
1 ea.	98 0000 0401	Flat flange gasket (mounted inside tank)
8 ea.	02 0000 0162	3/8" flat retainers
1 ea.	02 0000 0106	"O" Ring sending unit gasket (primary "O" ring gasket)
1 ea.	02 0000 0183	Top sending unit flange
8 ea.	02 0000 0163	3/8" nylon locking nuts
1 ea.	99 0186 0000	Rollover Vent, Fill-Stop Valve with 1.5" hose and vent cap.
1 ea.	02 0000 0112	Hose Barb Elbow installed in front insert of tank.
1 ea.	03 0000 0121	¾" x 14" Vent Line Hose, to be installed on hose barb of 02 0000 0112 above. This will be shortened to fit the individual application as part of the installation.
4 ea.	99 0000 0113	Universal Strap Shims (Packaged in plastic bag).
2 ea.	99 0000 0103	Rubber Strap Bushing
1 ea.	03 0108 0000	DODGE "SS" 2003 Crew Cab, Long Bed Strap <u>SET</u>

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 | 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 pump or siphon. |
| 3 | Remove OEM tank plastic shield or shell (if applicable) from vehicle. Some vehicles may require the removal of the left rear fender liner and the wheel to facilitate access to the tank fill and vent hoses. |



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|----|---|
| 4 | Disconnect the fill hose from the OEM tank's king nipple. |
| 5 | Support the OEM tank. |
| 6 | Loosen and remove OEM tank straps by removing the bolts at the inner side of the tank and the outer side of the frame. Lower the tank a few inches. |
| 7 | Disconnect vent line hose line coming from fill spout to tank. Disconnect at fill spout tubing end. |
| 8 | Disconnect fuel gauge electrical connection from sending unit. |
| 9 | Disconnect fuel and return lines from the sending. |
| 10 | Remove the OEM tank from the vehicle. |

Note: Concerning the installation of some 7030210 and 7030210S products: Factory skid plate which is located under transfer case may, in some cases, interfere with the installation of the TITAN tank. In those cases, it may be necessary to permanently remove all or part of the factory skid plate to allow installation of the new TITAN tank.

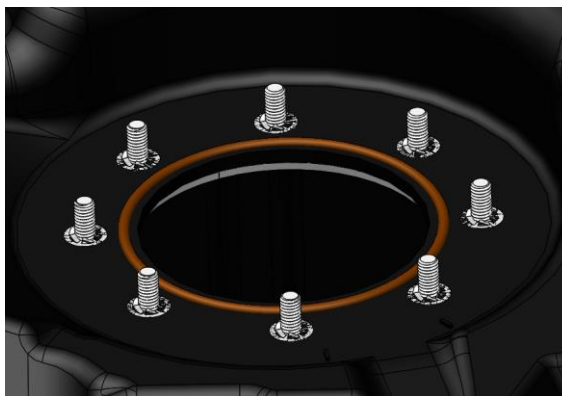
II. Prepare Vehicle and Replacement Tank

Step	Description
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11	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.
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12	Remove the 3/8" nylon lock nuts from the new TITAN tank. Leave the O-ring, studs, and retainers in place.
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13	Verify both internal half flanges are flat, seated properly, and not overlapping. Ensure the flat gasket is between the flanges and tank wall.
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- 14 Carefully place the sending unit into the new TITAN replacement tank. Make sure the “O” ring gasket is placed properly under the sending unit to seal correctly. Before installing the sending unit into the replacement tank, **BE SURE THE INSIDE OF THE TANK IS FREE OF DIRT OR DEBRIS OF ANY KIND.**
- 15 After placing the sending unit into the tank on top of the “O” ring gasket, rotate it (carefully so as not to displace the “O” ring) so the fuel fittings and electrical connections are positioned (or “clocked”) at the *same* angle as in the OEM tank.
- 16 Place the top flange on the studs, on top of the sending unit, so as to hold it down securely.
- 17 Torque nuts to **20 ft-lbs** in a star pattern—start with studs nearest where the half flanges meet. Ensure the orange o-ring is seated properly. Recheck torque after 15 minutes.



III. Install Replacement Tank in Vehicle

- | Step | Description |
|------|--|
| 18 | If the optional TITAN Shield was ordered with the tank, place it under the tank. For 7030303 tanks only, using the Quick Tie provided, securely fasten the front of the shield to the front section of the tank. |



- 19 Place tank (and shield if included) on a transmission jack and Lift the tank partway into the vehicle.
- 20 Reattach the fuel and return lines, as well as the electrical connection to the sending unit.
- 21 Finish lifting the tank into the vehicle and connect the fill and vent line hoses from the fill spout to the tank.
- 22 Locate the $\frac{3}{4}$ " vent line hose attached to the elbow fitting on top of the tank. Trim this hose to the proper length for your vehicle.
- 23 Ensure the vent line angles downward from the fill spout to the tank with no sags or kinks, as this will prevent proper venting.
- 24 Secure the vent line hose tightly at both ends using OEM clamps.

- 25 If optional TITAN Shield is NOT to be installed, you will need to install the rubber bushings on both straps. Place the bushings so they are centered in the bottom of the straps with the bushing's channel side toward the strap. Press the bushings securely into place.



- 26 Attach the inboard sides of the straps. Tighten the bolt and bracket to factory specifications. Tap straps with a mallet, if needed, to form them against the bottom of the tank.
- 27 On 2010 Crew Cab, Short Bed (7030210) vehicles only, install the "03 0110 0000 DODGE 2010 Crew Cab, Short Bed Front Support KIT" under the front of the tank. Remove the bolt from the front cab mount and thread the support onto it. Tighten the bolt to manufacturer's specification. Then drill through the support's hole and through the vehicle's frame with a 1/2" drill bit. Bolt the support solidly with the bolt and hardware provided in the kit.



- 28 Make sure ALL mounting hardware, clamps, bolts, etc. are properly installed and TIGHT. Double check it.
- 29 **Lower vehicle, fill tank completely with diesel fuel and check for leaks. IMPORTANT!**

30 Install Complete!



7030303



7030210

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.



* 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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