

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

A collection of components for a water filtration system, including a large black plastic tank, various hoses, filters, and electrical wiring. The components are laid out on a white surface. The large black plastic tank is on the right. To its left are various hoses, including a long black hose with a white label, a shorter black hose, and a green cap. There are also several electrical wires in different colors (red, blue, purple, black) and a small black electronic device. A metal plate with four holes is visible at the bottom right.

4030213: Dodge/RAM 2500 & 3500 Pickup Models with Cummins Engines for model years 2013-2021

Required Tools:

- Recommended Optional Tools:*

- 1 ea. Impact wrench
1 ea. Vehicle hoist

- 1 ea. 3/8" Drill Bit
- 1 ea. 1/4" Drill Bit
- 1 ea. Center punch
- 1 ea. Hammer
- 1 ea. 1/8" Allen Wrench
- 1 ea. Phillips bit screw driver, medium
- 1 ea. Flat blade screw driver, medium size
- 1 ea. 3/8" End Wrench
- 1 ea. Wire Stripper
- 1 ea. Small propane torch to set heat shrink connectors.
- 1 ea. Knife
- 1 ea. Test Light
- 1 ea. Dremel Tool or equivalent
- 1 ea. Pliers, standard
- 1 ea. Pliers, needle nose
- 1 ea. Pliers, large pump

4030213 TITAN™, 30 Gallon Spare Tire Auxiliary Fuel System (STAFS) with Cross-Linked Polyethylene Tank for RAM vehicles.
Parts List:

SPARE TIRE TANK BASE PARTS LIST 99 0131 0000		
PART DESCRIPTION	TITAN PART NUMBER	QUANTITY
Spare Tire Tank Body	99 0000 0377	1
1" X 1/2" X 1/2" Double Tapped Tank Bushing	99 0000 0400	1
1/2" Threaded PVC Pipe, 11-1/4" Length	99 0000 0416	1
Rollover Valve, Brass	99 0000 0137	1
Rollover Valve, Brass with Hose	99 0102 0000	1
Electric Fuel Sensor	99 0000 0402	1

SPARE TIRE PUMP KIT PARTS LIST -- 99 0128 0000		
PART DESCRIPTION	TITAN PART NUMBER	QUANTITY
In-Line Fuel Pump	99 0000 0370	1
1/8" NPT to 3/8" Hose Barb Adapter	99 0000 0403	2
Vent Fill Neck Adapter	99 0000 0409	1
3/8" Fuel Hose, 95" Length	99 0000 0419	1
Oval Head Drilling Screw, 8-18 Thread, 1" Length, Zinc-Plated	99 0000 0420	2
5/16" Fuel Hose, 95" Length	99 0000 0421	1
#8 Hose Clamp with 5/16" Band Width	99 0000 0422	9

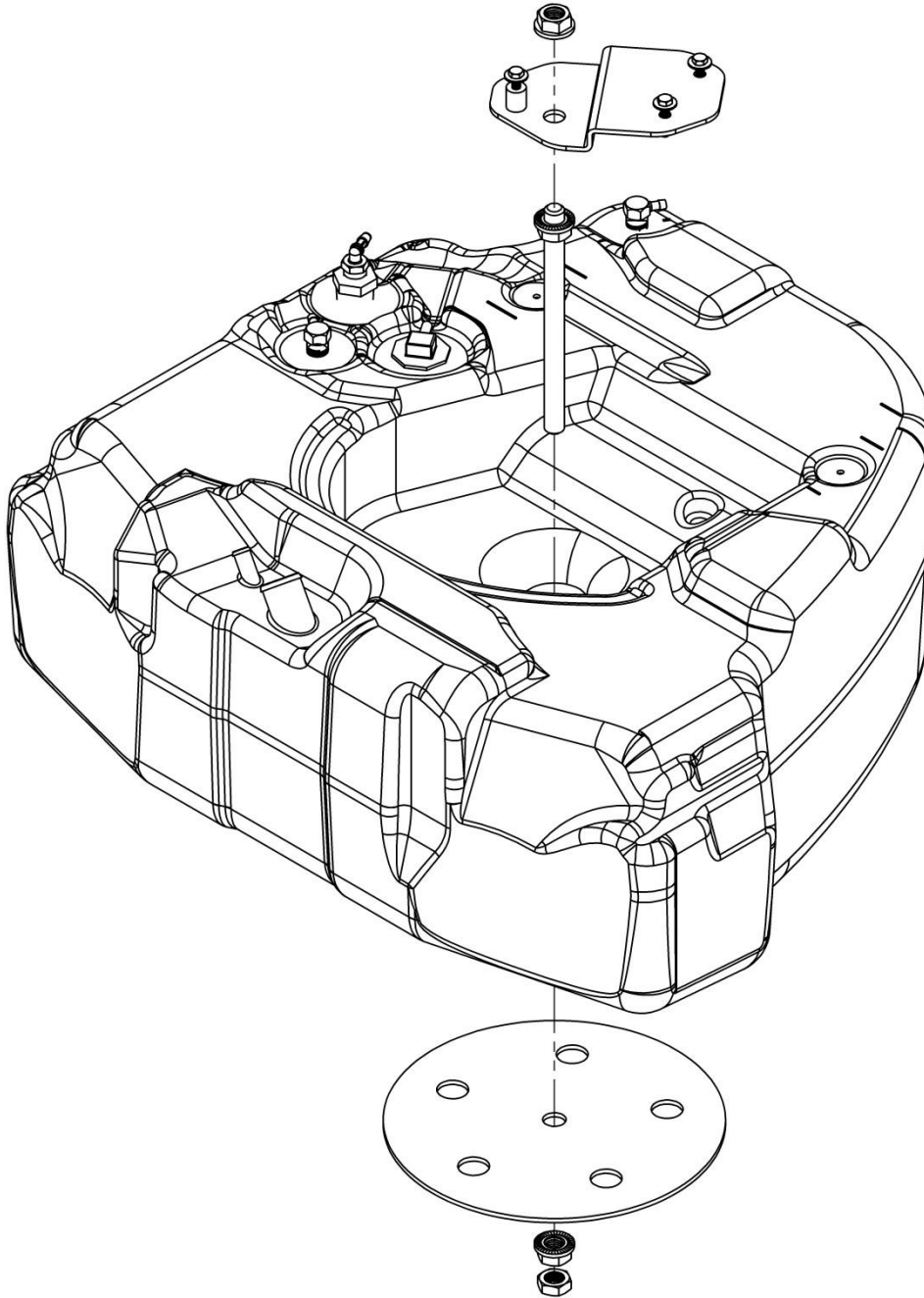
In-Line Fuel Filter	99 0000 0405	1
1/2" NPT to 3/8" Barbed Hose Eldow, Gray Kynar	99 0000 0401	1
Electronic Controller	99 0130 0000	1
22-18 Gauge Insulated Ring Terminal, 3/8" Stud	99 0000 0264	3
22-18 Gauge Heat-Shrink Butt Splice Terminal	99 0000 0267	6
ATM Fuse Tap	99 0000 0487	1
22-18 Gauge Barrel Quick-Disconnect Terminal	99 0000 0489	1
18 AWG Black Wire, 30" Length	99 0000 0466	2
Polyethylene Electrical Wire Loom, Black, 8 Feet	99 0000 0274	1
18 AWG Blue Wire, 20 ft Length	99 0000 0482	1
18 AWG Purple Wire, 20 ft Length	99 0000 0201	1
#4 Hose Clamp with 5/16" Band Width	99 0000 0483	2
Grounding Wire	99 0120 0000	1
6-32 Machine Screw, 3/16" Length, Zinc-Plated Steel	99 0000 0418	1
Adhesive Backed Velcro (2 Inches)	99 0000 0283	1

UNIVERSAL FILLER NECK KIT PARTS LIST -- 99 0129 0000		
PART DESCRIPTION	TITAN PART NUMBER	QUANTITY
Poly Filler Neck Flange Assembly	99 0134 0000	1
Fuel Cap	99 0000 0368	1
Brushed Aluminum Fuel Door	99 0000 0428	1
Fuel Door Gasket	99 0000 0429	1
10-24 Machine Screw Nut with Tooth Washer, Zinc-Plated Steel	99 0000 0431	5
10-24 Thread, 1" Length, Flat Head Socket Cap Screw, 18-8 Stainless Steel	99 0000 0433	5
5/8" Fuel Hose, 48" Length	99 0000 0434	1
Gasoline Filler Neck Hose - 1 1/2" x 18"	99 0000 0435	1
Molded Gasoline Filler Neck Hose - 1 1/2" x 15 7/8" x 45°	99 0000 0436	1
Molded Gasoline Filler Neck Hose - 1 1/2" x 15 1/8" x 90°	99 0000 0437	1
#28 Hose Clamp with 5/16" Band Width	99 0000 0438	6
#10 Hose Clamp with 5/16" Band Width	99 0000 0439	2
1-1/2" Hose to Hose Coupling	99 0000 0440	2

2013- DODGE MOUNTING KIT PARTS LIST

Stock #: 4030213 / Kit #: 03 0113 0000

PART DESCRIPTION	TITAN PART NUMBER	QUANTITY
2013 Dodge Truck Mounting Plate	03 0000 0124	1
3/4"-10 Threaded Rod, 10-1/8" Length	03 0000 0126	1
3/4"-10 Serrated Flange Hex Locknut, Grade 8	99 0000 0449	3
Tank Mounting Plate	99 0000 0407	1
M8 Flat Washer, Zinc-Plated Steel	99 0000 0468	4
M8 Nylon Locknut, 1.25 mm Pitch, Class 10 Steel, Zinc Plated	99 0000 0469	3
M8 Flange Head Cap Screw, 30mm Length, 1.25 Pitch, Class 10.9 Steel	99 0000 0470	2
M8 Cap Screw, 50mm Length, 1.25 Pitch, Class 10.9 Steel	99 0000 0471	1
5/16" Screw Size Unthreaded Spacer, Zinc-Plated Steel, 7/8" Length	99 0000 0458	1
3/4"-10 Thin Hex Nut, Grade 5 Steel, Zinc Plated	99 0000 0467	2
2013 Dodge Installation Instructions	03 0000 0128	1
5/16" id x 1.5" od, Plated Flat Washers	99 0000 0767	3
Universal Template for Fuel Door Cutout	99 0000 0480	1



(Fig. 1) Exploded view showing the mounting assembly of TITAN™ model 403020 Spare Tire Auxiliary Fuel System (STAFS) 30 gallon tank.

I. Remove Vehicle's Spare Tire & Mounting Hardware

<u>Step</u>	<u>Description</u>
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1	Lower the spare tire and remove it from the vehicle.
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- 2 In a safe and approved manner, place vehicle on hoist and raise to desired working height.
- 3 Remove the vehicle's rear bumper for easy access to the spare tire area.
- 4 Remove the winch assembly that raises and holds the vehicle's spare tire from the vehicle. This should leave a cross member exposed.



(Fig. 2) Cross member in 2013+ RAM vehicles showing STAFS top Truck Mounting Plate and Threaded Rod installed.

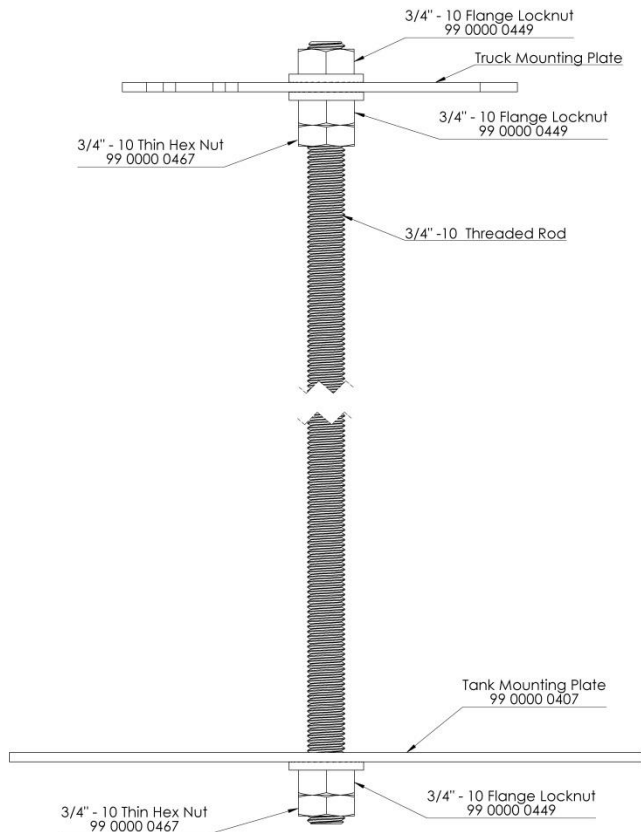


(Fig. 3) Cross member in 2013+ RAM vehicles showing STAFS Truck Mounting Plate close-up.

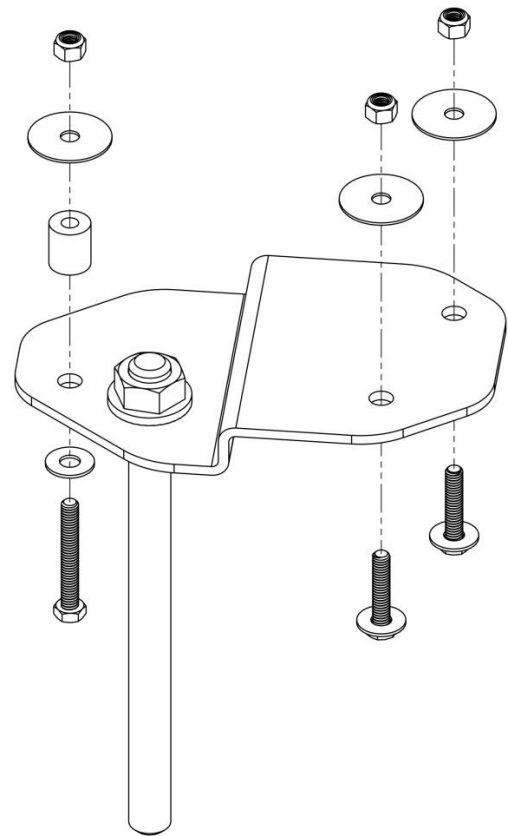
- 5 Place threaded rod up through Truck Mounting Plate. Using two of the $\frac{3}{4}$ " flanged, serrated nuts provided, fasten it in place. **Screw nut on top of plate so that there are two threads showing above the nut.** Thread bottom nut, up to the bottom of the plate and tighten to 45 ft. lbs. so that the shaft is thoroughly locked in place (See Fig. 4).
- 6 Install Spare Tire Auxiliary Fuel System (STAFS) Truck (top) Mounting Plate on cross member, in place of spare tire winch (See Figs 2 & 3) using M8 flanged cap screws, washers, nuts and a spacer provided (See Fig. 5) Install and tighten nuts securely. Nuts are necessary even though there are a few threads provided in OEM plate. **Be sure to install 5/16" ID x 1.5" OD Flat Washers (99 0000 0767) under the nuts on top of OEM winch mount plate on the cross member.**

II. Prepare New STAFS Tank for Installation

- 7 Screw in $\frac{1}{2}$ " NPT x $\frac{3}{8}$ " Hose Barb elbow (99 0000 0401) into plated Double Tapped Tank Bushing which is already installed in tank (See Fig. 6) Install $\frac{3}{8}$ " Hose (99 0000 0419) onto barb of the elbow. Use hose clamps on all hoses.



(Fig. 4) Side view of tank mounting plate assembly, threaded rod, and bottom tank mounting plate. Be sure to torque the nuts on the top plate to 45 ft. lbs, the flanged nut on underside of Tank Mounting Plate to 15 ft. lbs. against the tank and the jam nuts ("Thin Hex Nut") at the plate and very bottom to 45 ft. lbs.



(Fig. 5) Exploded view of Truck Mounting Plate (top plate). **Important: It is critical that 5/16" id x 1.5" od Flat Washers are installed on top of RAM winch plate on cross member.**



(Fig. 6) Installing 1/2 x 3/8" Hose Barb Elbow into plated Double Tapped Tank Bushing.



(Fig. 7) Install 5/16" hose onto the rollover valve as shown in this photo.



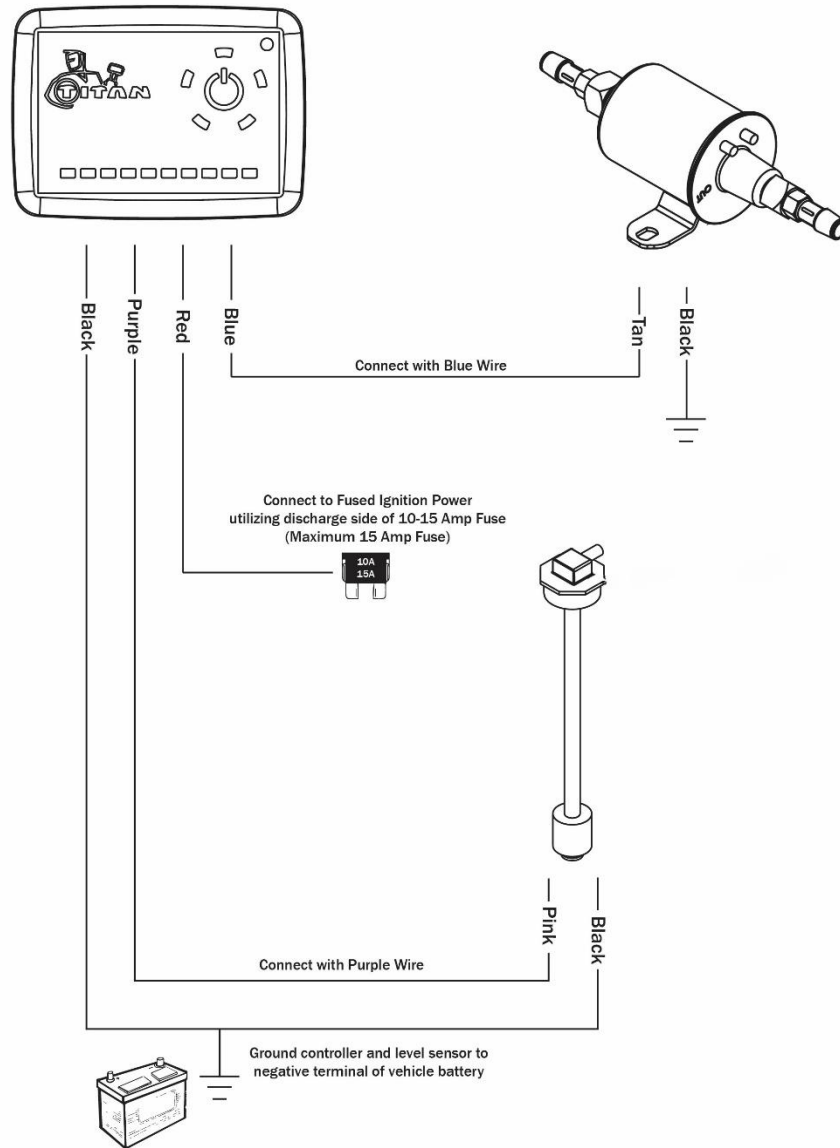
(Fig. 9) View showing all connections made to tank.

- 8 Install 5/16" hose onto the rollover valve (99 0000 0421) which is adjacent to the elbow discussed in Step 7, above (See Fig. 7). Use hose clamps on all hoses.
- 9 Connect electric fuel sensor leads using supplied heat-shrink butt splice terminals according to wiring diagram in Fig. 10.

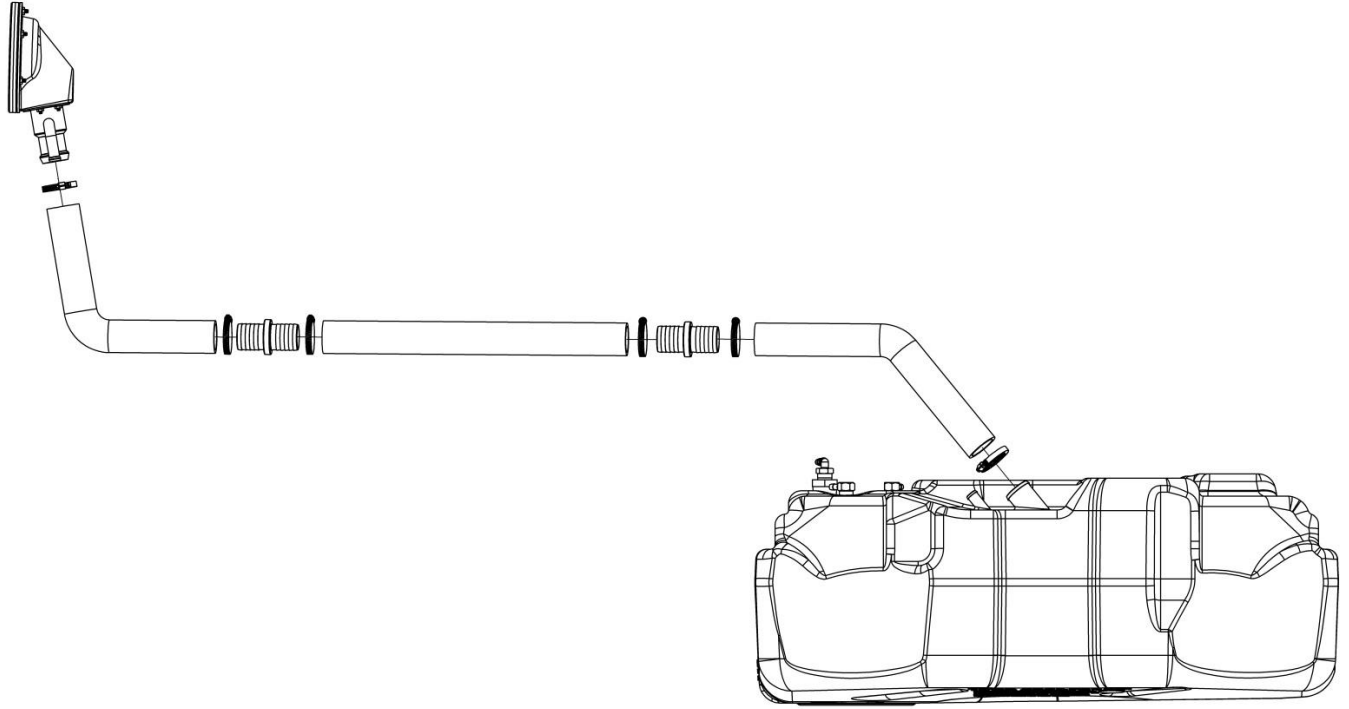
III. Fit STAFS Tank and Components in Vehicle

- 10 Lift tank into place with Tank Mounting Plate under it on $\frac{3}{4}$ " threaded rod. Be sure to align circular mounting tabs on the bottom of the tank with the holes in the Tank Mounting Plate. Tighten $\frac{3}{4}$ " flanged locknut just enough to hold tank snug for now. The hose fittings on the tank are located adjacent to the vehicle's rear bumper.
- 11 Check the path of the 1 $\frac{1}{2}$ " fill hose and 5/8" vent hose (See Fig.11). This path will run from the fittings on the tank to the point where you have decided to install the fuel door. Filler and vent hose will run from tank body, over frame rail, into space in fender behind driver's side rear wheel. NOTE: Some model years may require the trimming of sheet metal or other non-critical structural components to allow clearance for filler and vent hose. Be sure that there are no sharp edges which may rest against any of the hoses (See Figs. 12 & 13). Remove tank and trim the path.

TITAN™ Electronic Controller Pump Wiring Diagram



(Fig. 10) TITAN™ Electronic Controller, pump, and sensor wiring diagram.



(Fig. 11) Exploded view of the rear of the STAFS tank (side of tank nearest the rear bumper) showing the fill hose plumbing schematic. A 5/8" vent hose running from the vent barb on the tank to the barb on the Poly Filler Neck Flange Assembly is not shown in this view.



(Fig. 12) Using appropriate tools, bend or trim any sharp edges that come in contact with, or obstruct hoses.



(Fig. 13) Using a hammer to bend sheet metal edge out of the way.

- 12 After trimming sharp edges and obstacles from hose path, the tank is ready for permanent installation. Before permanently installing tank, run 3/8" vent line from elbow (See Step 7) and 5/16" hose from rollover valve over top of frame to the vehicle's Original Equipment Manufacture's (OEM) filler neck.
- 13 Install the tank as before. This time tighten the nuts to the torque specifications shown in Fig. 4, that is tighten the nuts at the top Truck Mounting Plate to **45 ft.**

lbs, the jam nut under the nut under the Truck Mounting plate to **45 ft. lbs.**, the flanged nut on the underside of the Tank Mounting Plate to **15 ft. lbs** and the jam nut (“Thin Hex Nut”) at the very bottom to **45 ft. lbs**.

- 14 In the 3/8” hose line, mount pump, using drilling screws and filter and fasten in a convenient location, preferably in a somewhat sheltered place out of the path of water and ice. Be sure the inline filter is located before the suction side of the fuel pump. Filter needs to be accessible for service (See Fig. 14).



(Fig. 14) Fuel pump and inline filter installed.

- 15 Using the supplied ring terminal, ground black fuel pump wire to chassis member using supplied, extra 30” wire, if needed. Attach red power wire on pump to blue 20 ft. wire provided, using supplied heat-shrink butt terminals. Cover with plastic loom. Run wire loom with blue and purple (from Electric Fuel Sensor) wire along frame rail to cab access. Refer to Fig. 10, wiring diagram.
- 16 Cut vent line from vehicle’s OEM fill neck, and install Vent Fill Neck Adapter (99 0000 0409). The small diameter tubing of the adapter should be closest to vehicle’s fill cap.



(Fig. 15) Vent Fill Neck Adapter installed.



(Fig. 16) Fuel Door located in outside fender.

- 17 Connect 3/8" line from pump to largest tubing on Vent Fill Neck Adapter. The 5/16" hose from tank body rollover valve goes to the other one. Use hose clamps on all connections.

IV. Install Filler Neck Kit

- 18 Determine desired location of Fuel Door. Door (See Fig. 16) can be installed in outside of fender OR on the inside wall of the bed wall (See Fig. 17). Check to be sure there is sufficient clearance available in the proposed location for the Poly Filler Neck Flange Assembly (See Fig. 18).

When mounting on the outside of the fender, it is generally most attractive if the horizontal center of the TITAN™ Fuel Door is aligned with the horizontal center of the OEM fuel door. If necessary, run masking tape horizontally from the front fuel door to the back to align the centers. If aesthetics is NOT a concern, be aware the tank will fill best when the fuel door is located as high as possible.

NOTE: If mounting inside the vehicle's bed wall, the best location is shown in Fig. 17.



(Fig. 17) Location of Fuel Door located inside of bed wall.



(Fig. 18) Check to be sure there is room in the fender space for the Poly Fuel Neck Flange Assembly BEFORE cutting any holes. Always test fit FIRST. Some fender spaces may require the trimming of sheet metal components to allow proper fit.

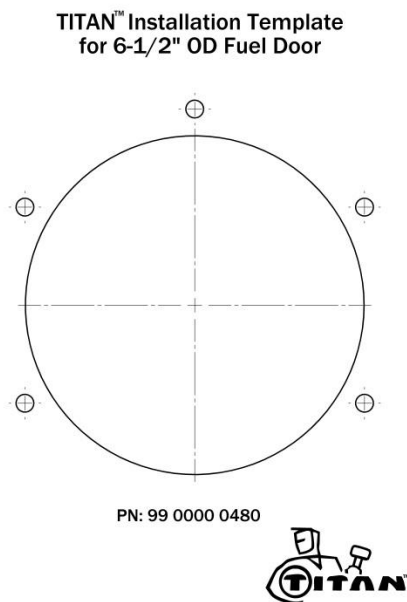
- 19 After carefully determining the location for the fuel door, cut a hole in the side of the fender, or the bed wall using 4.75" hole saw (See Fig. 19).



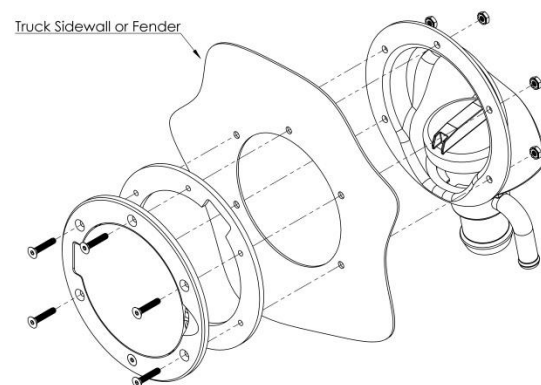
(Fig. 19) Use 4.75" hole saw to cut hole for Fuel Door.



(Fig. 20) Cut out appropriate template and tape it around the 4.75" hole. Use center punch to mark screw positions and then using appropriate drill bit size, drill marked holes.



(Fig. 21) Facsimile of template supplied for Fuel Door installation in outside of fender or inside bed wall.

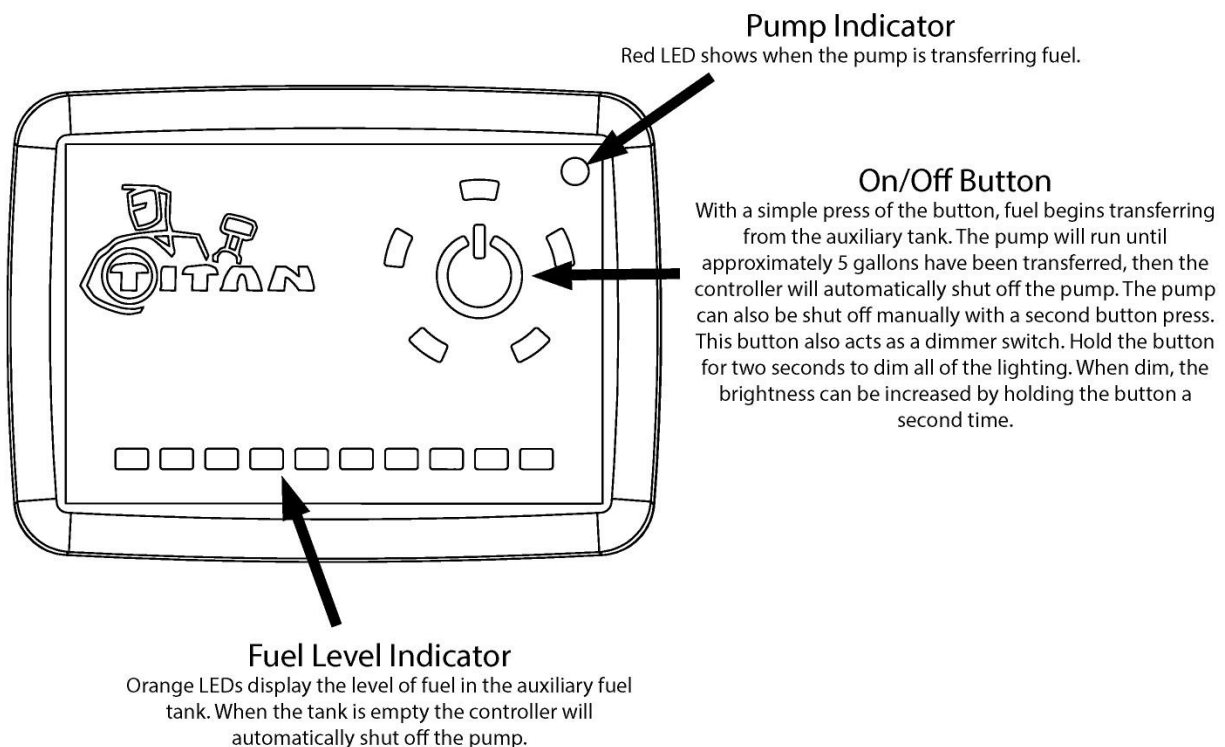


(Fig. 22) Exploded view of Fuel Door and Filler Neck showing assembly on installation.

- 20 Center and tape the provided Fuel Door Installation Template over the large hole which has been cut in the vehicle and mark the five screw locations with a center punch. Using a 1/4" drill bit, drill out the five screw holes (See Fig. 20).

- 21 Assemble and install Fuel Door and Filler Neck Assembly as shown in Fig. 22.
- 22 Assemble fuel fill line as per view in Fig. 11. Trim the molded hoses as needed to fit the installation. Be sure there are no “sags” in the hose and that it is angled downhill towards the tank. Install 5/8” vent line also making sure it does not “sag” anywhere.
- 23 Recheck all bolts, screws and hose clamps to be sure they are all tight and secure.
- 24 Reinstall rear bumper and lower vehicle to the ground.
- 25 Mount the TITAN™ Electronic Controller in a convenient location in the cab drilling a 3/8” hole and using the supplied Velcro to hold it.
- 26 Complete wiring as per diagram in Fig. 10. Utilize ATM Fuse Tap and Barrel Quick Disconnect Terminal to wire into vehicle’s fuse block utilizing a 10-15 Amp (maximum 15 Amp) fuse.
- 27 **VERY IMPORTANT:** Using filling station pump, completely fill the STAFS tank with diesel fuel. Check for leaks, and the operation of the Electronic Controller (See Fig. 23). This is a critical step as there is no warranty on the system unless it is filled and tested upon installation.

TITAN™ Electronic Controller



(Fig. 23) Operation instructions for TITAN™ Electronic Fuel Controller



Installation Complete!

* All capacities are approximate

++ Patent Pending

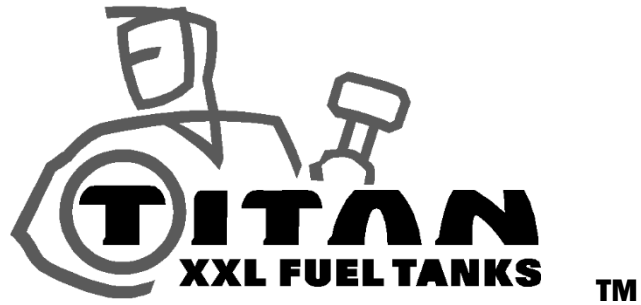
Be sure to return the completed warranty registration for your new Titan™ fuel tank; or you can register on-line at www.titanfueltanks.com

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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www.titanfueltanks.com

TITAN Fuel Tanks™ are PROUDLY MADE IN THE USA

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