

9-000-7016 and 9-401-7016

DeatschWerks 2005-2018 GM Truck X3 Triple Fuel Pump Module Installation Guide



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Included Parts:

- Billet Aluminum X3 Module (Hanger, Bucket, and Tophat)
- DW400 415 LPH Fuel Pumps (x3) *"401" PN# Only*
- DW400 Pump Electrical Connectors (x3)
- Convoluted Tube 12"x 3/8" (x4)
- Convoluted Tube 10"x 5/16" to 3/8" (x3)
- DW400 Pump Pre-Filters (x3)
- 13mm Pinch Hose Clamp (x8)
- 12-10awg #10 Ring Terminals (x4)
- 16-14awg #10 Ring Terminals (x6)
- 22-18awg #10 Ring Terminals (x4)
- Rubber One Way Check Valves (x3)
- Fuel Level Sensor
- 39mm Pump Adapter Sleeves (x3)

PLEASE READ: This guide is intended to aid in the installation of our products. It is recommended that factory manuals or instructions are followed to remove the fuel pump assembly from the vehicle. Instructions in this guide are generic and are intended to aid in the installation of three DW400 pump modules. The factory manual should supersede any contradiction.

Important Notes: The DeatschWerks GM Truck X3 module is designed to fit both 46mm and 39mm brushed fuel pumps. You will need to reuse your OEM fuel tank pressure sensor in the EVAP location supplied.

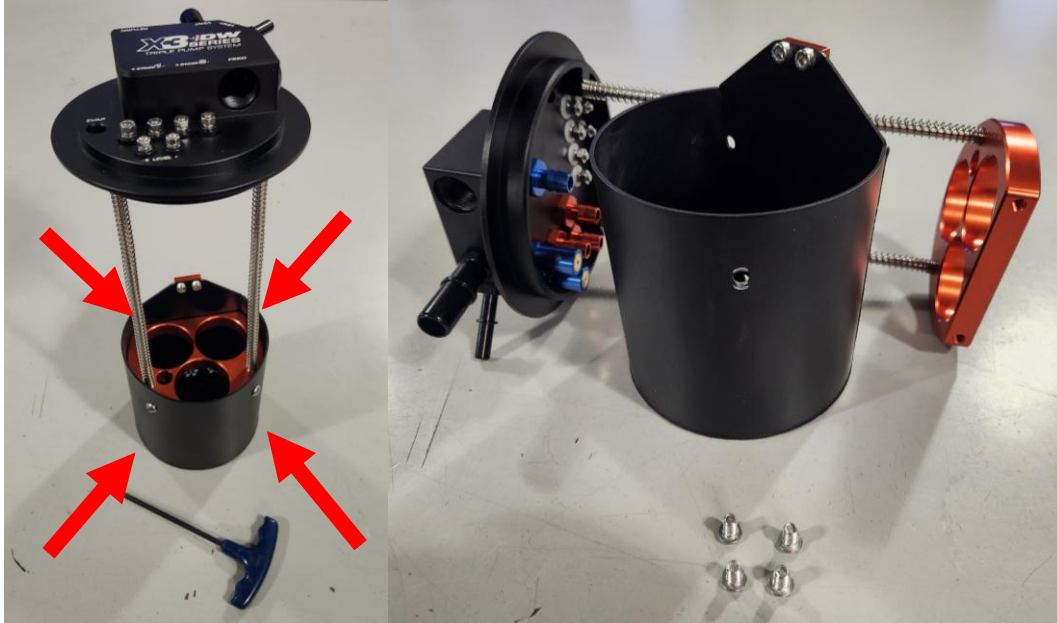
Note: This module is designed to fit the 2005-2018 GM Truck 1500, due to the variations in fuel tank, cabs, and bed lengths, the DW X3 module may not fit Extended Range or Extended Cab Long Bed versions of the trucks. It will not fit trucks built on the Suburban platform either, including most 2500 and 3500 applications.

Below are some of the suggested tools that will make the installation process easier.



Assembly of the X3 Module

1 – Using a 4mm Allen tool remove the four M6 screws retaining the bucket to the X3 module assembly. Separate the bucket from the pump holder and tophat section.



2 – Locate the three included rubber one way check valves. Install them into the three ports on the fuel level side of the bucket. The nub on the valve should go through the middle hole from the inside out.



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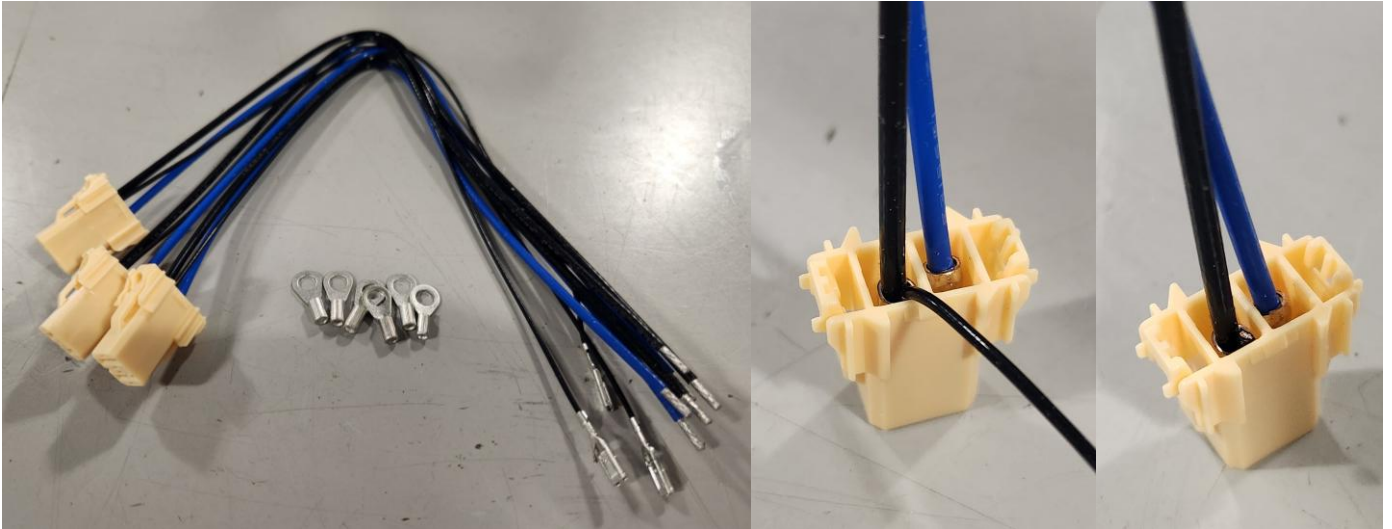
3 – Locate the included DW400 fuel pumps and filter socks. Install the pre-filters onto the pumps by pressing them into the inlets of the pumps, these are press-fit, so they require a medium amount of force to install.



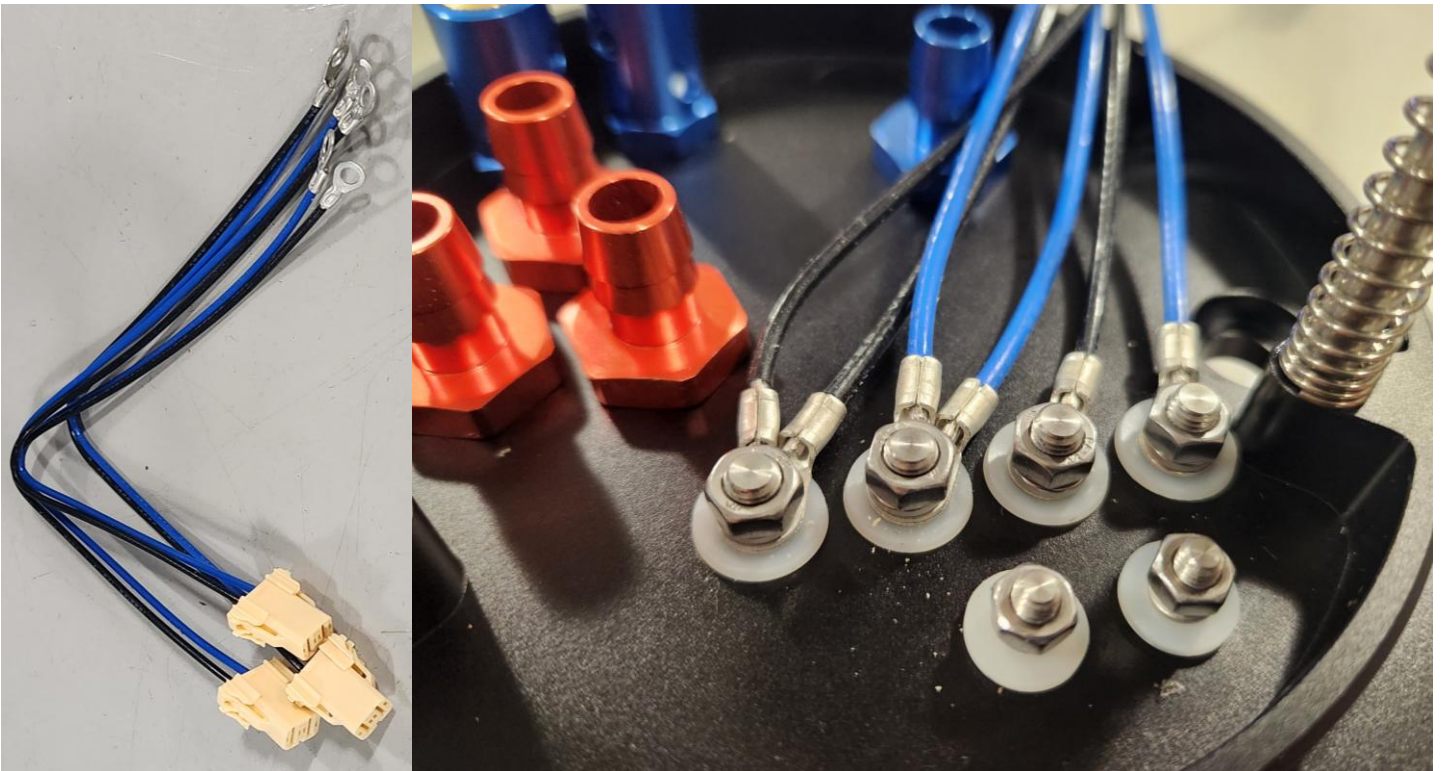
4 – Install the pumps into the bucket in the configuration shown below, two pumps at the back and one in the front. Double check that the filter socks did not pull the rubber check valves out of their holes.



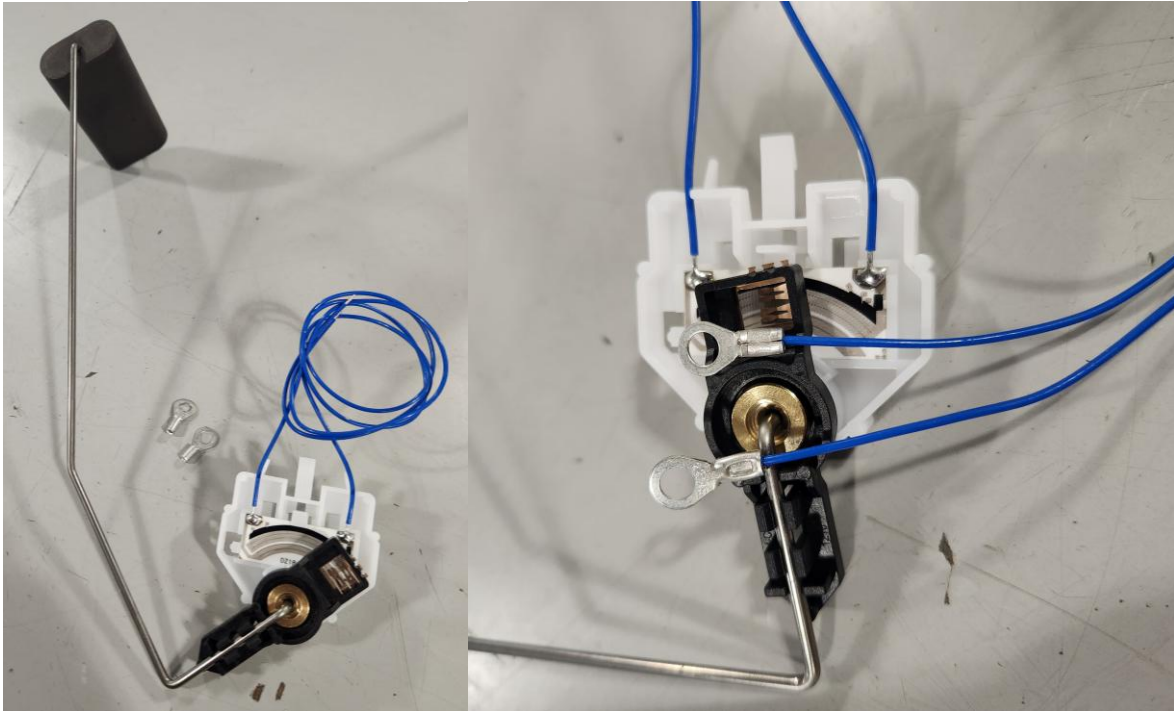
5 – Locate the three included DW400 wiring pigtails and the six 16-14awg ring terminals. The small black ground wire is not needed on this application, it can be removed.



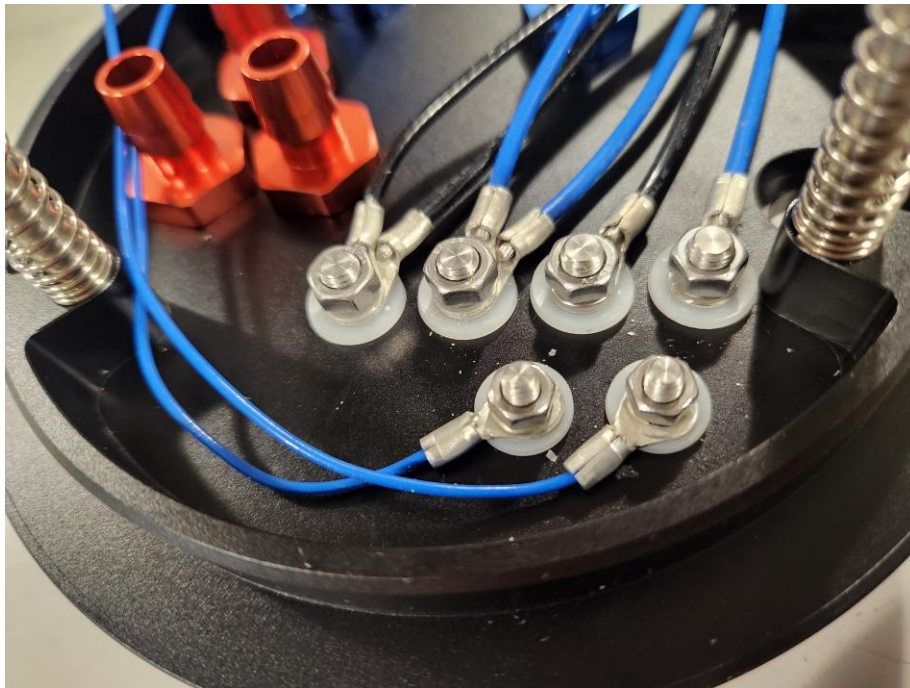
6 – Crimp the ring terminals to the pigtails. The wiring can be shortened for a cleaner installation, or left the length provided for easier routing and installation later. Attach one of the pigtails to the “Stage 1” positive and negative terminals, and the remaining two pigtails to the “Stage 2” + and - terminals.



7 – Locate the included fuel level sensor and two of the supplied 22-18awg ring terminals. Crimp the terminals onto the blue wires.

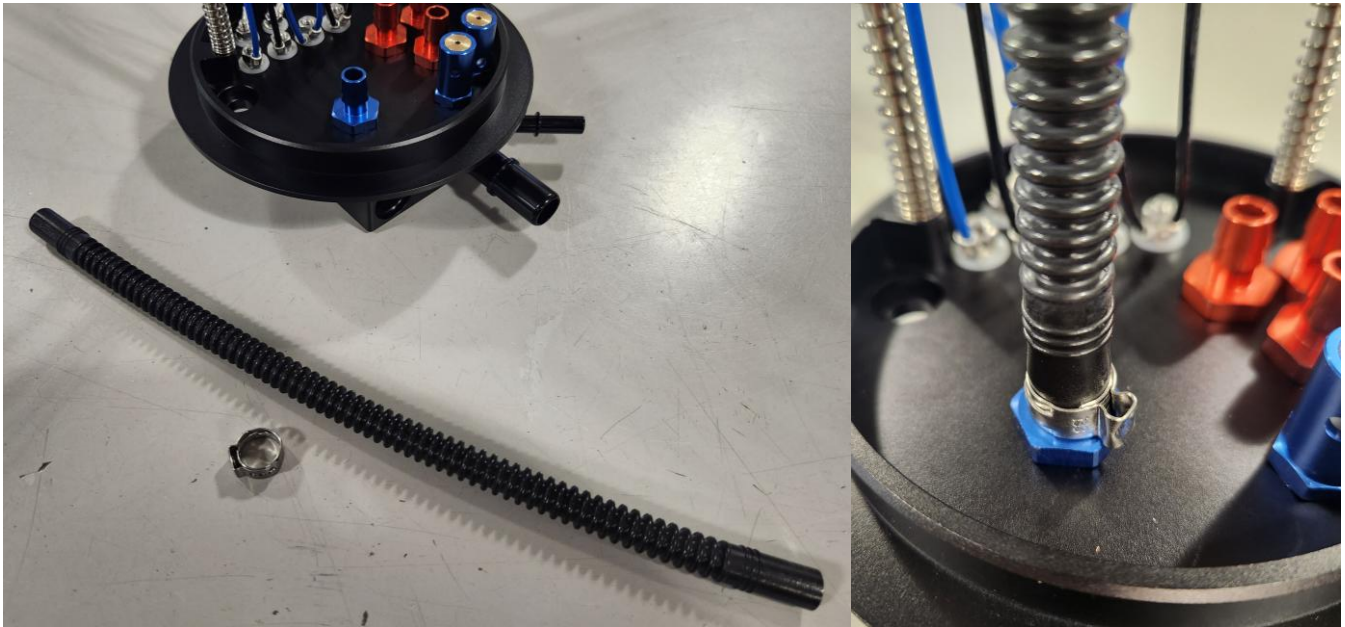


8 – Attach the fuel level sensor wiring to the “Level” positive and negative terminals. Orientation does not matter.

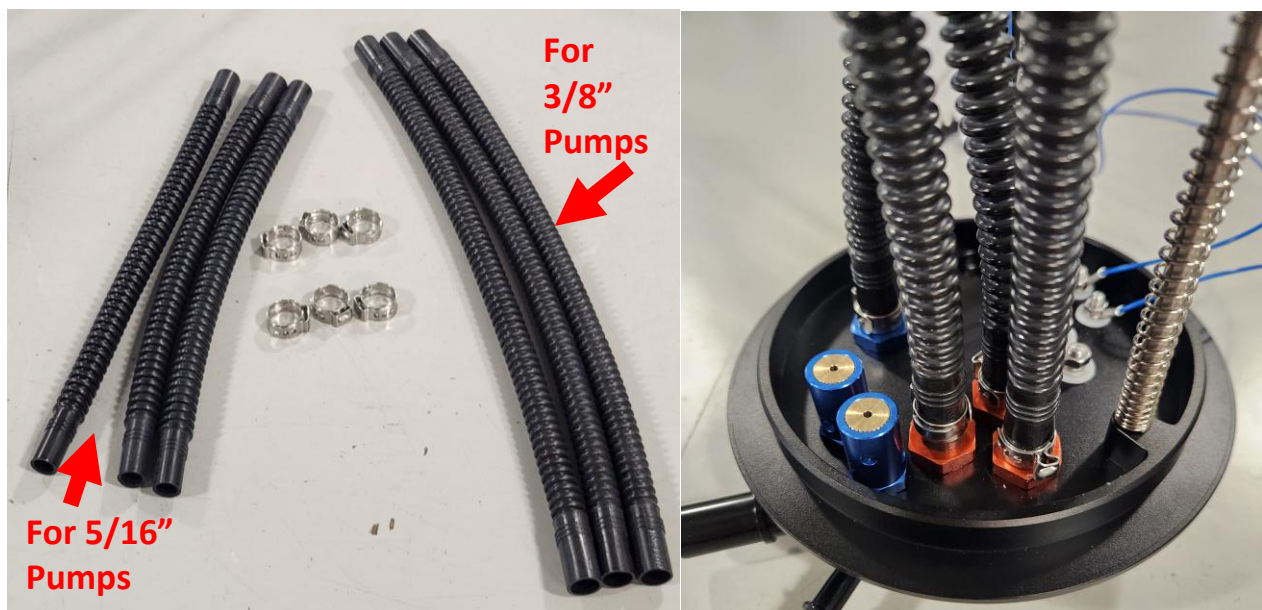


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9 – Using one of the supplied 3/8 x 12" (10 x 305mm) long convoluted tubes and one 13mm pinch clamp. Install the hose onto the blue return hose barb fitting and secure it with the clamp.

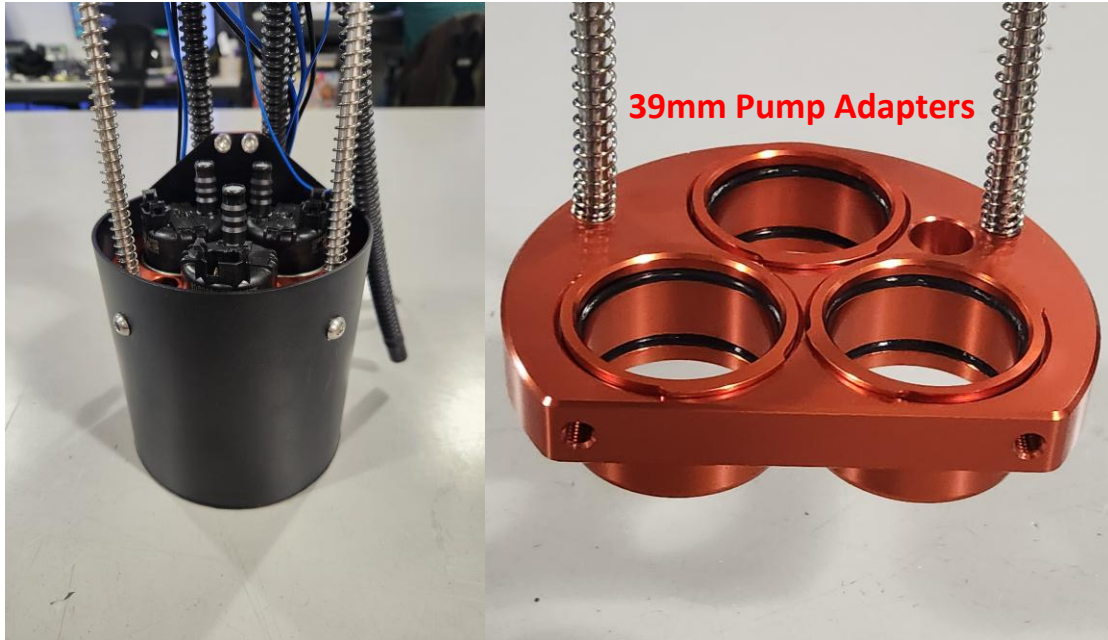


10 – You should have six convoluted tubes left, three longer 3/8" (10mm) and three shorter hoses. The shorter hoses are 3/8" (10mm) on one side and 5/16" (8mm) on the other. If your pumps have 5/16" outlet barbs use the shorter hoses, if you are using the DW400 pumps use the longer 3/8" (10mm) hoses. Attach the hoses to the three orange 3/8" (10mm) hose barbs on the X-series module tophat and secure with the included 13mm clamps.

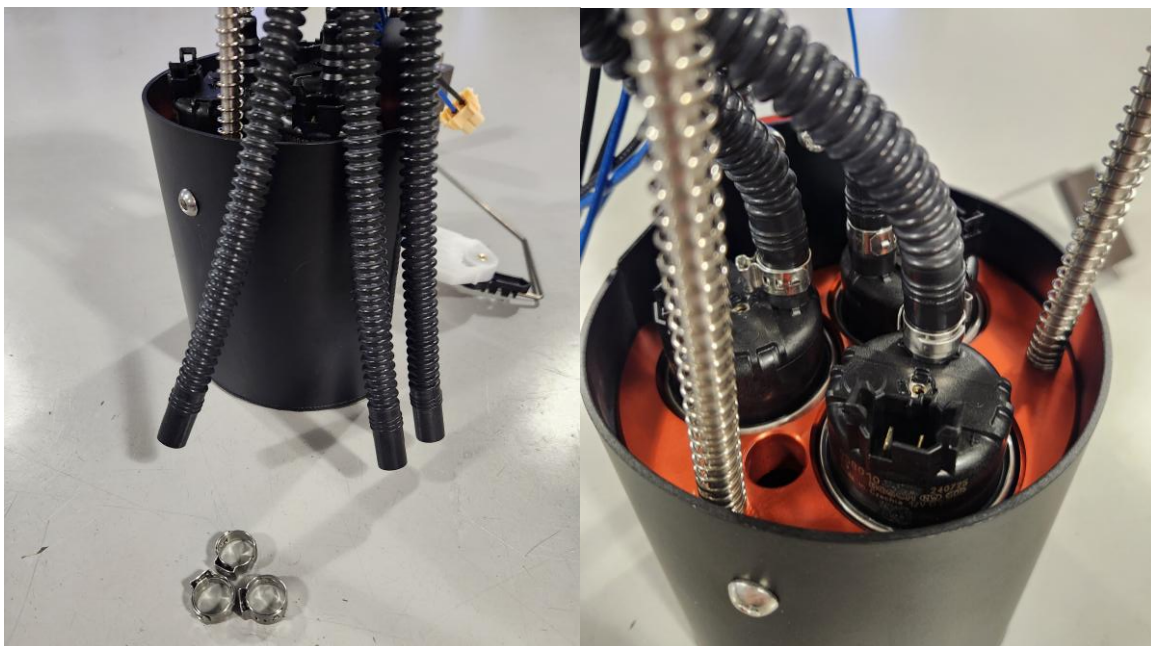


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11 – Slide the X-series module tophat and pump holder assembly into the bucket aligning the pumps to pass through their openings. Once in place re-install the four M6 screws that secure the orange pump holder section to the bucket. If you are using 39mm diameter pumps install the included adapter sleeves by sliding them over the pump body down into the pump holder.

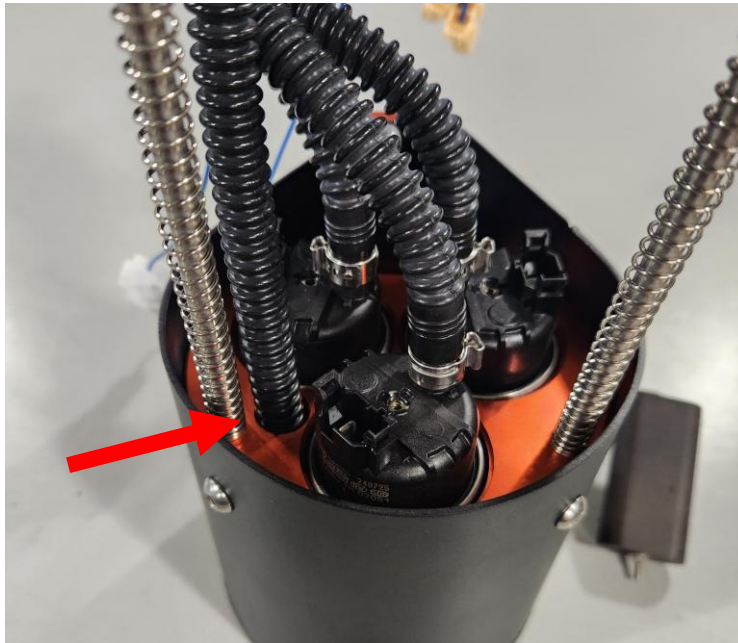


12 – Locate the remaining pinch hose clamps and attach the three pump hoses to the pumps and secure them with the clamps.



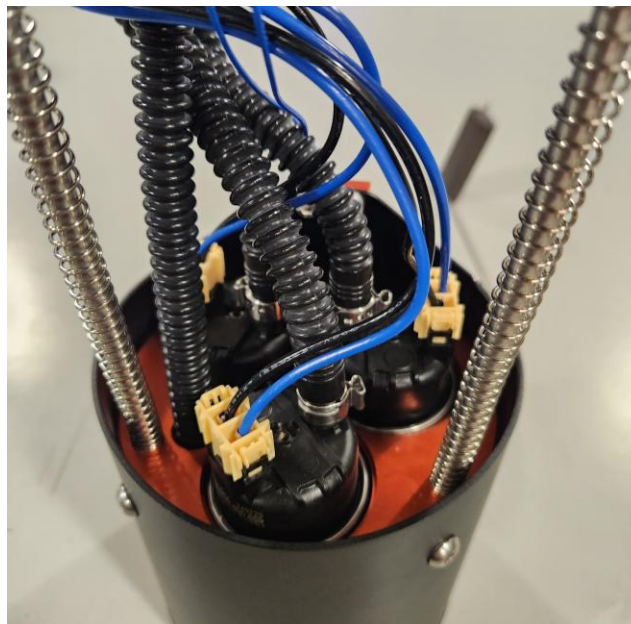
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13 – Tuck the free end of the return convoluted tube attached to the blue fitting into the hole in the pump holder section as shown below. This is important to help fight fuel slosh and always keep the bucket full.

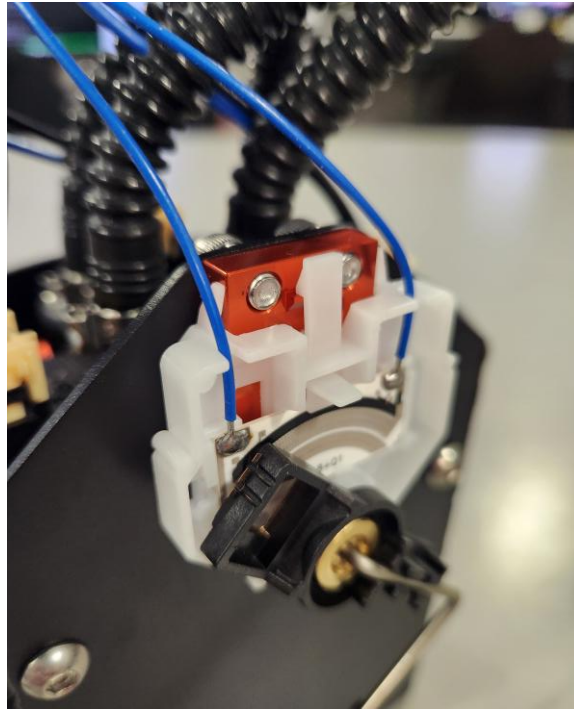


14 – Click the fuel pump connectors into their fuel pumps. If you have different flow rate pumps installed, the lower flowing pump should be connected to the “Stage 1” wiring. This should reduce the heat build up inside the fuel system while cruising.

Note: If you have a fuel pump without a check valve, make sure to use the wiring connected to “Stage 1”.

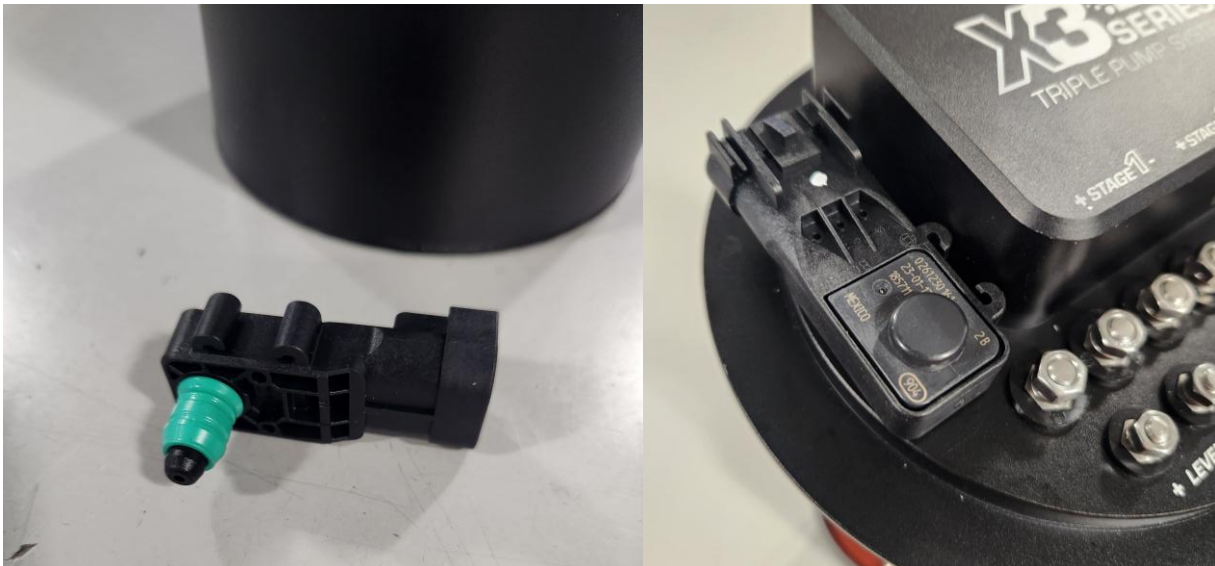


15 – Install the fuel level sensor onto the orange bracket on the back side of the bucket.



16 – Remove the fuel tank pressure sensor from your OEM module, apply lubricant to the OEM seal and install it into the port marked “EVAP” on the X-series module tophat.

Note: Without this sensor you will have an Emissions check engine or warning light for “Loose Gas Gap.”



Wiring the X3 Module

17 – The DW X3-Series GM Truck module comes with supplied ring terminals; these are designed for up to 10awg wiring. The level sending unit wires should be connected to the factory level sending unit wires. Due to the increased amperage of aftermarket performance fuel pumps, the OEM pump wiring may be of insufficient size. This can be upgraded with a hardwire kit like the PN# **FPHWK-10-DP** (Fuel Pump Hardwire Kit 10AWG Dual Pump).

The factory fuel pump positive trigger wire is **Grey**, this wire should be connected to the blue wire to trigger the Stage 1 relay in the FPHWK.

The factory fuel level sending unit wires are:

Black and Purple
Tan/Black and Purple
Blue/Purple and Black/Green



For additional technical support please contact us at: TechSupport@Deatschwerks.com or 405.233.3991.