

DeatschWerks 650iL Adapter for 3.5L Modular Surge Tanks



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Included Parts: 9-5009

- Adapter Base
- Adapter Top
- Adapter to Surge Tank O-Ring
- Stainless Mounting Bolts (x6)
- Stainless Washers (x6)
- Lube

Included Parts: 9-650-C105-5009

- Adapter Assembly
- DW650iL Fuel Pump
- DW Brushless Two-Speed Controller
- 8AN ORB Pre-Filter 100μ

650iL Surge Tank Adapters 9-5009 and 9-650-C105-9005 Install Guide

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.

Below is a picture of some suggested tools that will make the installation process easier.



Installation of the Adapter and Pump

1 – First remove the 6x stainless hex head bolts from the surge tank opening you want to install the pump into. Remove the retaining ring, and the pump or delete plate that are currently installed.



2 – Install the sealing O-ring onto the pump adapter, the included O-ring must be stretched slightly over the adapter, you can also re-use the original O-ring provided with the 3.5L surge tank.



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3 – Using the provided lube, lubricate the O-rings inside the adapter, and install the adapter onto the DW650iL pump, the adapter should be flush with the top of the pump. Install the AN pre-filter onto the pump next.



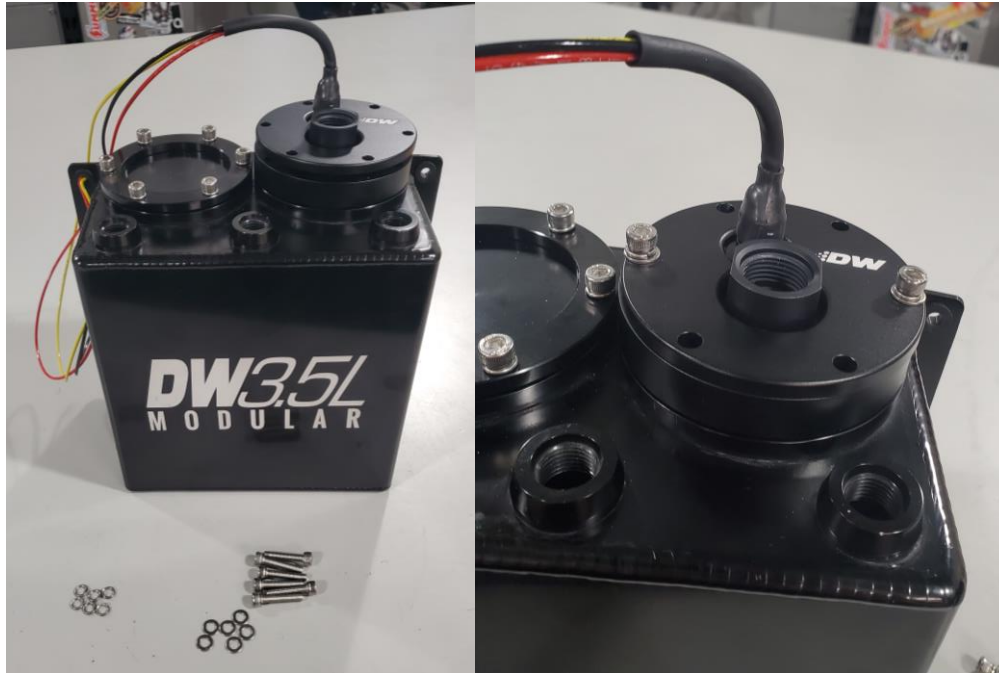
4 – Install the whole pump and adapter assembly into the surge tank. Slip the wiring harness through the top plate and locate the plate on top of the DW650iL pump, the opening is specific and can only slide over the pump one way.



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5 – Locate the 6x stainless bolts and washers included with the adapter, align the adapter, top plate and surge tank holes and thread the bolts and washers through all three pieces. You may need to spin the pump inside the adapter to align all three sets of holes correctly.

Note: You can reuse the split lock washers included with the 3.5L surge tank for more secure mounting.



6 – Tighten the bolts in a star pattern to 30 inch/lbs.



Pump and Controller Wiring

7 – The DW650iL pump comes with a connector to plug and play with the DW Brushless controller. If you need to shorten or modify the factory wiring use the following chart to re-wire the pump and controller.

Controller	Pump
Orange	Black
White	Red
Blue	Yellow
Black	N/A

8 – The DW Brushless controller comes with a pigtail for power and signal wiring. The Red wire is 12v B+ Key On power, the Black wire is Chassis Earth ground, and the White wire is the signal to switch between High and Low Flow modes. With the White wire unhooked the controller defaults to 50% duty cycle which is approximately 300-350 LPH, grounding the White wire enables 100% duty cycle and the full 650 LPH flow. If you want high flow all the time, permanently ground the white wire, or use it with a switch, relay or ECU to turn it off and on as demand increase and decreases.



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