

OST DYNNO

Hellcat Dual Fuel Pump System



Kit Includes:

- 1x Fuel pump PWM module (two pictured)
- Fuel pump PWM module bracket and hardware (fits Challenger only)
- Fuel pump harness
- FORE Hellcat dual pump drop-in hat for OEM feed and return

Notes:

This system should be installed by a professional. Installation includes removing and installing fuel pumps. Do not do so while smoking or near an open flame.

Installation:

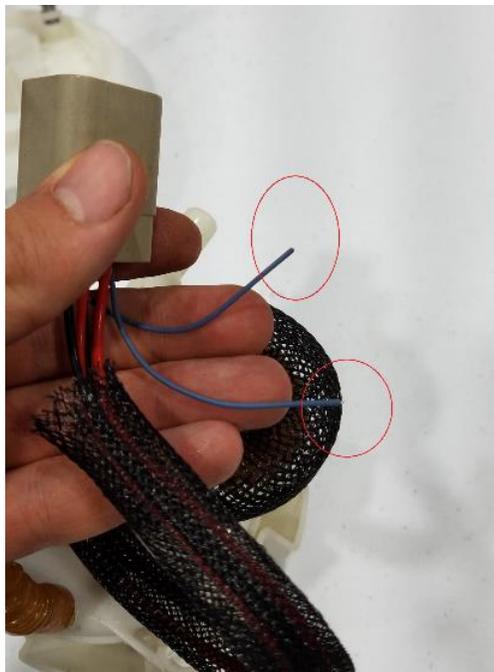
1. Make sure your car has $\frac{1}{4}$ tank or less of fuel.
2. Remove the upper-passenger and lower rear seats from your vehicle. The lower seat cushion is held in place by two press-in brackets at both front corners. Pull hard on the front corners to release.
3. Remove plastic fuel pump cover. Unplug the connector on the fuel hat.



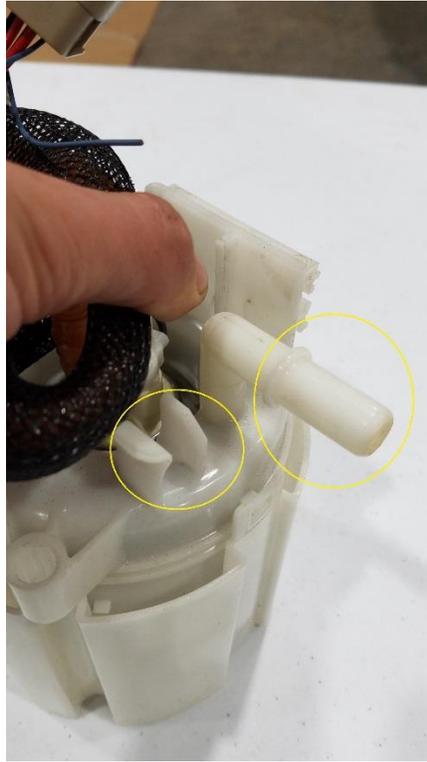
4. Using the special factory tool or a hammer and chisel, remove the pump hat retaining ring.
5. Lift the factory fuel pump hat and unplug the pumps and level sending wires.



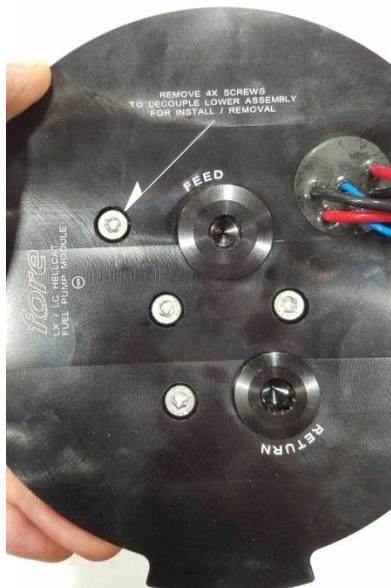
6. Cut the two level sending wires going to the passenger side of the tank.



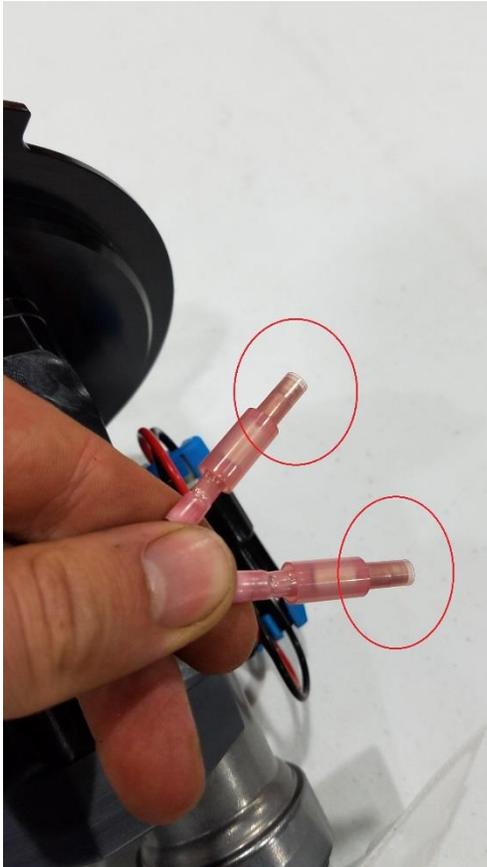
7. Remove the two crossover lines from the factory pump basket.



8. Remove the factory basket. Be careful not to tweak the level sending unit or spill fuel.
9. Remove the factory level sending unit from the factory basket and install onto the FORE hanger.
10. Remove the allen bolts from the top of the FORE hanger. Remove the FORE hat. Be careful not to lose the o-rings that seal against the hat.



11. Thread the included long allen bolts into two of the threaded holes on the top of the hanger.
12. Holding the hanger by these bolts, drop the pump hanger into the tank.
13. Connect the fuel sending unit wires (polarity does not matter) and connect the crossover lines.



14. Hold the hanger in one hand and remove the two long allen bolts.
15. Place the FORE hat on top of the hanger and install the short allen bolts the hanger was initially assembled with. It may help to thread one of the long bolts back in to align the hat and hanger and pull the hanger up to install the short bolts.
16. Index the hat correctly on the tank and reinstall the retaining ring.
17. Remove the trunk cargo tray and passenger side trunk liner. Use a plastic panel removal tool to get the plastic "Christmas tree" retainers out without breaking them.

18. Unplug the factory fuel pump PWM control module and remove the 10mm bolt and plastic retainer holding it in place.



19. Bolt this PWM onto the supplied OST PWM bracket with the supplied hardware. Orient as shown.



20. Install the bracket with the 10mm bolt and plastic retainer removed from the factory PWM. Use one of the larger plastic retainers that held the trunk lining on to secure the bottom of the PWM bracket. See photo (Challenger only). For other vehicles you will need to mount the bracket where possible.



21. Plug in the harness as pictured.



22. Plug the plastic retaining clip on the factory harness into the remaining hole on the PWM bracket.
23. Route the two legs of wire along the trunk floor and behind the relay box. The "GND" terminal loop goes to the ground post by the relay box. The "PWR" terminal loop to the red power wire post on the relay box.



24. Route the remaining wire leg along the trunk floor following the factory wire bundle. This remaining leg is the second fuel pump wiring. Follow this bundle across the trunk and into the cabin.



25. Continue to route the fuel pump wires along the factory bundle as it goes under the lower rear seat cushion and behind the interior plastic on the passenger side.



26. Remove the white plastic retaining clips on the carpet and pull the carpet away from the floor.
27. Route the fuel pump wiring under the cross bar and around to the front of the rear seats. Follow the factory harness across the car and behind the driver's side rear plastics.





28. Pull the fuel pump harness out alongside the factory fuel pump harness. Plug in the factory connector only.
29. Cycle the ignition on and check for any issues. Make sure to hear one pump prime.
30. Disconnect the factory connector and plug in the second pump connector. Cycle the ignition on and hear the second pump prime.
31. Plug in both connectors and hear both pumps prime. Test fire the car and shut off if no issues.
32. Unplug both fuel pump connectors. Remove the rubber grommet from the plastic fuel pump cover.
33. Remove the tape from the factory fuel pump wiring to free the rubber grommet.
34. Slice the rubber grommet to route the second fuel pump harness next to the factory fuel pump harness. Retape the grommet to keep it located.
35. Reinstalled the plastic cover onto the grommet and plug in the pumps.
36. Reinstall interior parts in reverse order of removal.

37. (Challenger) Before reinstalling the passenger side trunk liner pop out the indent as shown. The hole that had a plastic retaining clip in this indent will not have a plastic retaining clip when reinstalled.

