

Hellcat Secondary Fuel Pump Module Wiring

1. Remove rear seat bottom cushion, lower trunk mat and passenger trunk trim panel to gain access to Fuel pump and original driver module.
2. Mount the secondary module, we suggest mounting right above the original to make wiring easier.
3. Remove the original fuel pump assembly. Transfer over the fuel level sender and connect wiring to the open thin wires on the fore assembly. Reinstall in tank.
4. Cut the original connector from the fuel pump harness.
5. The two thin wires from the original harness get connected to the two thin wires from the new assembly. Polarity/color do not matter.
6. The dark blue/orange wires and the violet/light blue wire need to get connected to one of the new fuel pumps. Out of the new fuel pump assembly there will be 4 thick wires, 2 black and 2 red. The original module will connect to and control one set of black/red wires, and the new module will then connect to the remaining set of red/black wires. Both dark blue/orange wires get connected to one of the red wires, and the violet/light blue wires get connected to one of the black wires.
7. We suggest using a relay to control the second module/pump, which we mount just below the original module. On the relay there will be circuits 30, 87, 87a, 85 and 86. 87a will not be used. Circuit 30 will go directly to battery power, either at the battery or at the large terminal on the fuse box. Mount an in-line 30amp fuse in this circuit.
8. Circuit 87 on the relay will go to the secondary module, circuit A. 85 on the relay will be spliced into the original module, circuit A, do not cut this wire. Just remove some of the insulation and solder the wire to it, then cover with heat shrink. Lastly, 86 on the relay will go to a good ground, either at the battery or on the ground stud next to the fuse box.
9. Moving to the new secondary module connector, there will be letters on the back side of the connector to identify which circuit is what. They are small but if you look close they're there.
10. Circuit A we've already addressed in step 8.
11. Circuit B and circuit G get tapped into the same circuits on the original module. B goes to B and G goes to G. Like above, do not cut these wires, just trim back the insulation and solder the new wires to the old ones, then cover with heat shrink.
12. Circuit C and F do not get used.
13. Circuit E is ground, run this wire directly to the battery, or to the ground stud next to the fuse box.

14. Circuit D and H are the power/ground for your second fuel pump, which will be the remaining 2 wires at the fuel pump module. Run these wires directly to the fuel pump assembly, and connect Circuit D to the remaining Red wire, and connect Circuit H to the black wire.
15. At this point the wiring should be complete.
16. Disconnect both the fuel pump modules, and plug the original connector into the new secondary module. Key on the vehicle (but do not start) and leave the key on for roughly 5 minutes. This will help program the second module. After 5 minutes, turn the key off. Reconnect the original module connector to the original module. Then reconnect the new secondary module to the new connector.
17. Reinstall the rear seat and trunk paneling.