

CERTAIN 2017 MODEL YEAR F-SUPER DUTY CHASSIS CAB VEHICLES EQUIPPED WITH A 6.7L DIESEL ENGINE AND MIDSHIP FUEL TANK — FUEL CONDITIONING MODULE BOTTOM COVER REPLACEMENT

OVERVIEW

In all of the affected vehicles, the fuel conditioning module protective foam shield may be dislodged by water spray, leaving the fuel drain plug unprotected and susceptible to unintended opening. This could lead to air ingress into the fuel system or a fuel leak. Air ingress through the fuel drain plug into the fuel system may cause the engine to stumble and possibly stall, with or without restart capability. A significant diesel fuel leak onto the road surface may increase the risk of a slip hazard and decrease the stability of vehicles on the road. A fuel leak in the presence of an ignition source may increase the risk of fire. Dealers are to replace the fuel conditioning module bottom cover which will include a protective metal shield around the fuel drain plug.

SERVICE PROCEDURE

1. With the vehicle in NEUTRAL, position it on a hoist. Please follow the Workshop Manual (WSM) procedures in Section 100-02.
2. Disconnect the primary and secondary battery ground cables. Please follow the WSM procedures in Section 414-01.
3. Release the fuel system pressure by waiting two minutes after pump has shut off for the low-pressure system to bleed off pressure.
4. Disconnect the water-in-fuel (WIF) sensor electrical connector. See Figure 1.

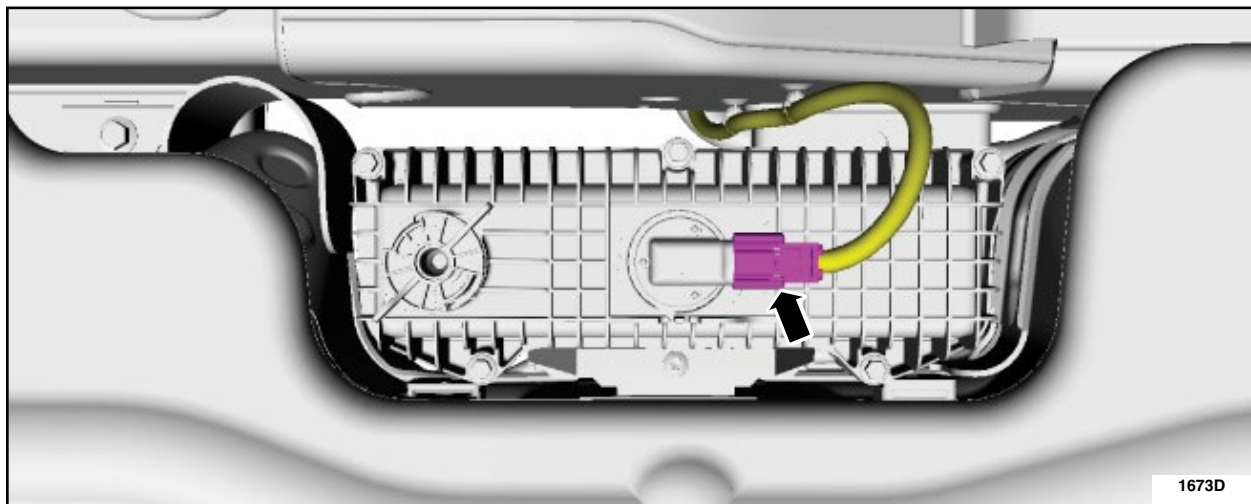


FIGURE 1



5. Disconnect the return fuel line quick connect coupling from the fuel conditioning module or from the fuel pump and sender unit. See Figure 2. Please follow the WSM procedures in Section 310-00 for quick release coupling (Type 3) information.

- Failure to fully disconnect the return fuel line could siphon excess fuel from the fuel tank when the fuel conditioning module is drained in the next step.

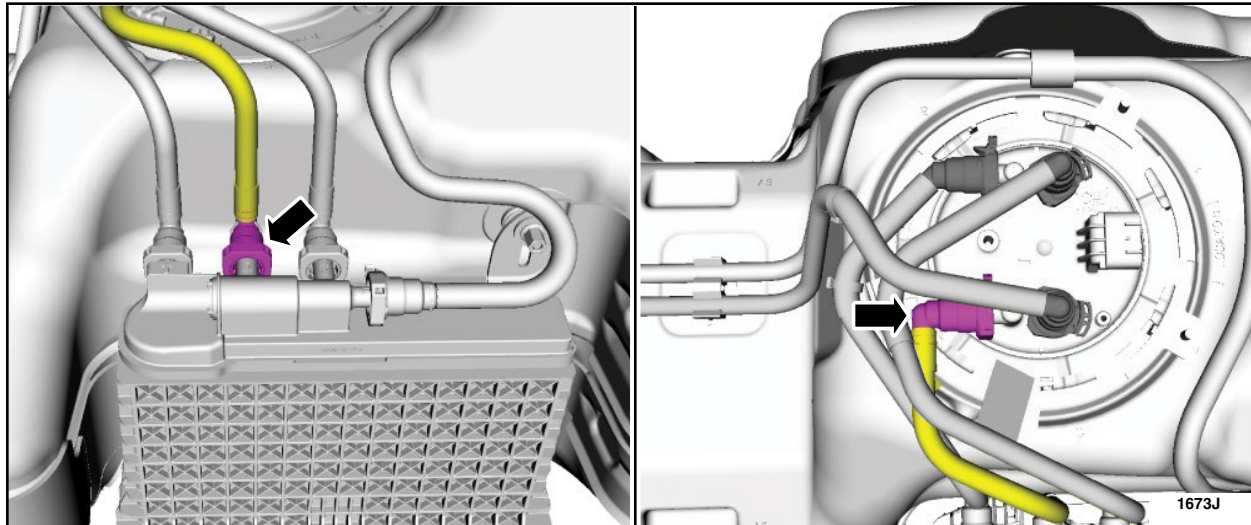


FIGURE 2

6. Loosen the fuel drain plug. See Figure 3.

- Tighten by hand once the fuel has drained.

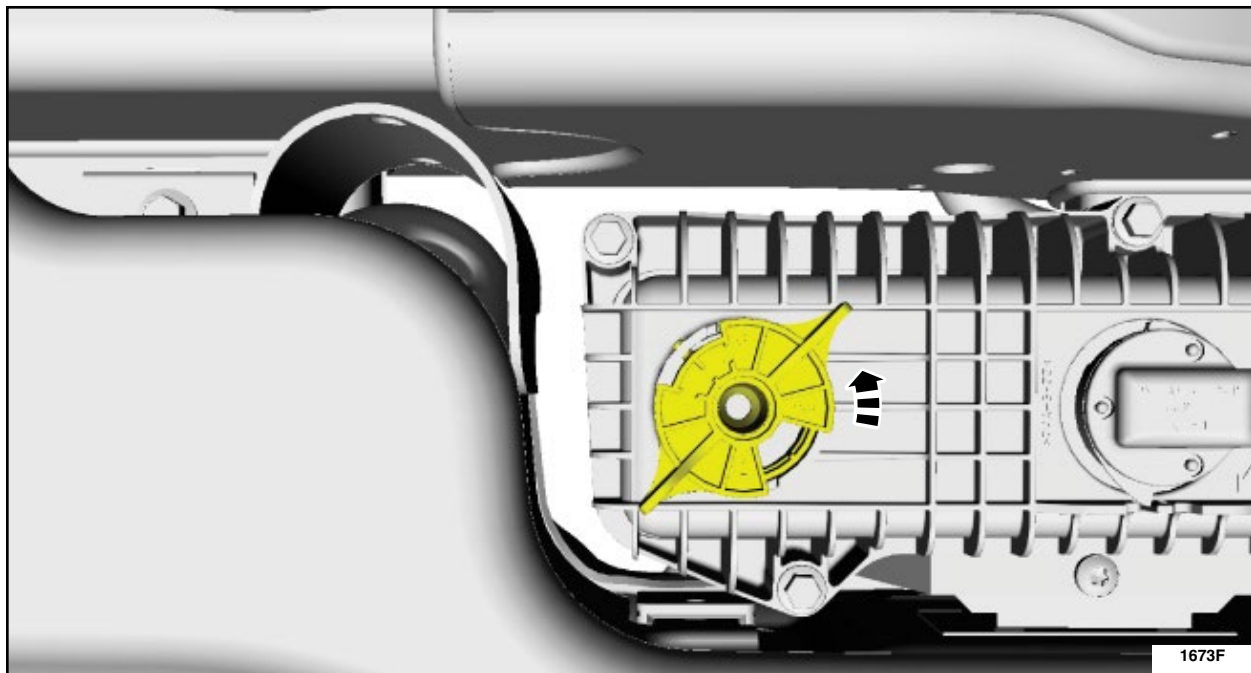


FIGURE 3



7. Loosen the bolts and remove the fuel conditioning module bottom cover. See Figure 4.

- Tighten to 44 lb.in (5 Nm).

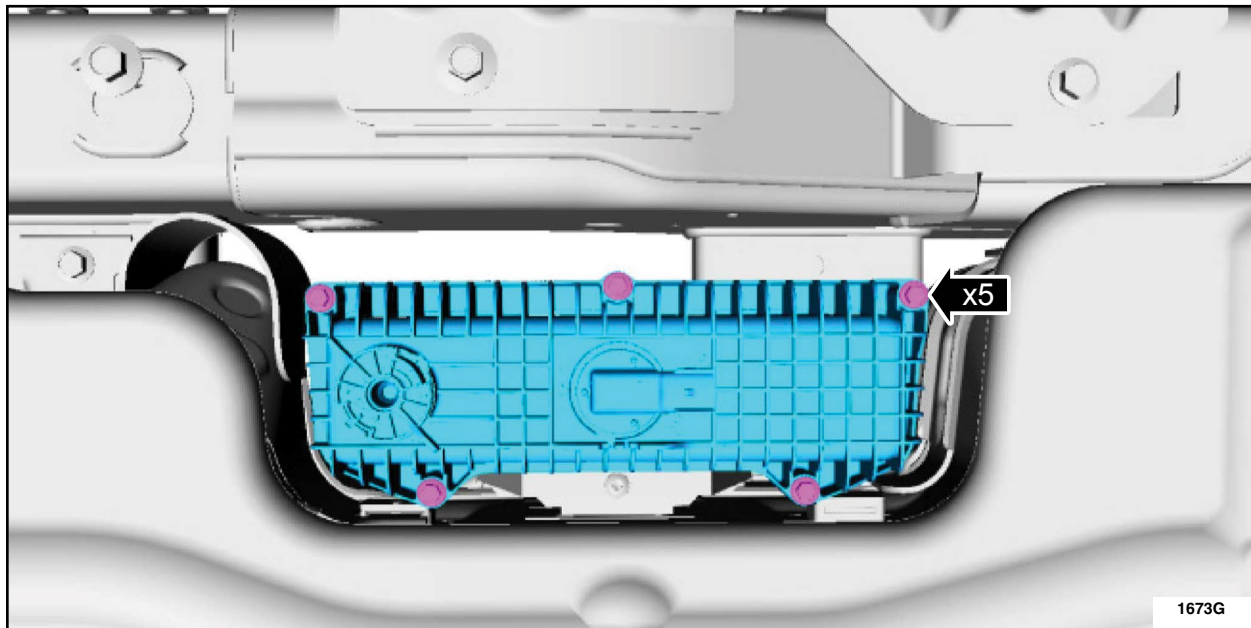


FIGURE 4

NOTE: During installation, make sure the fuel conditioning module bottom cover O-ring is clean and not damaged.

8. Slide the fuel filter element to unlock it from the fuel conditioning module bottom cover. Remove the fuel filter element. See Figure 5.

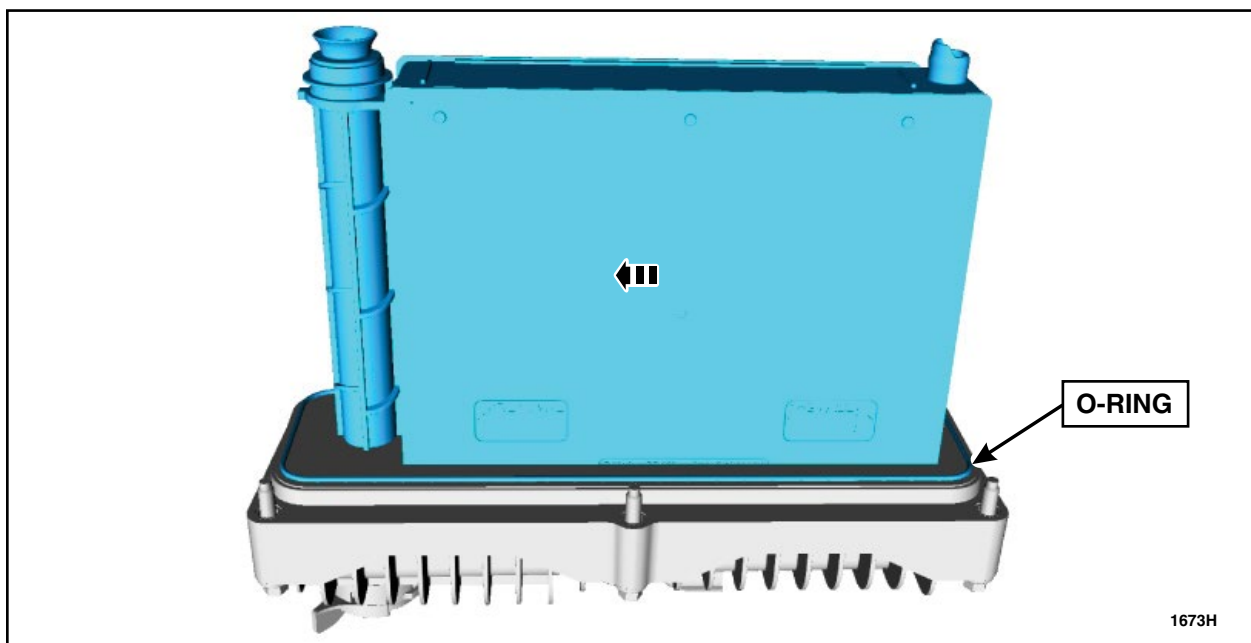


FIGURE 5



9. Rotate the WIF sensor counter clockwise and remove the sensor. See Figure 6.

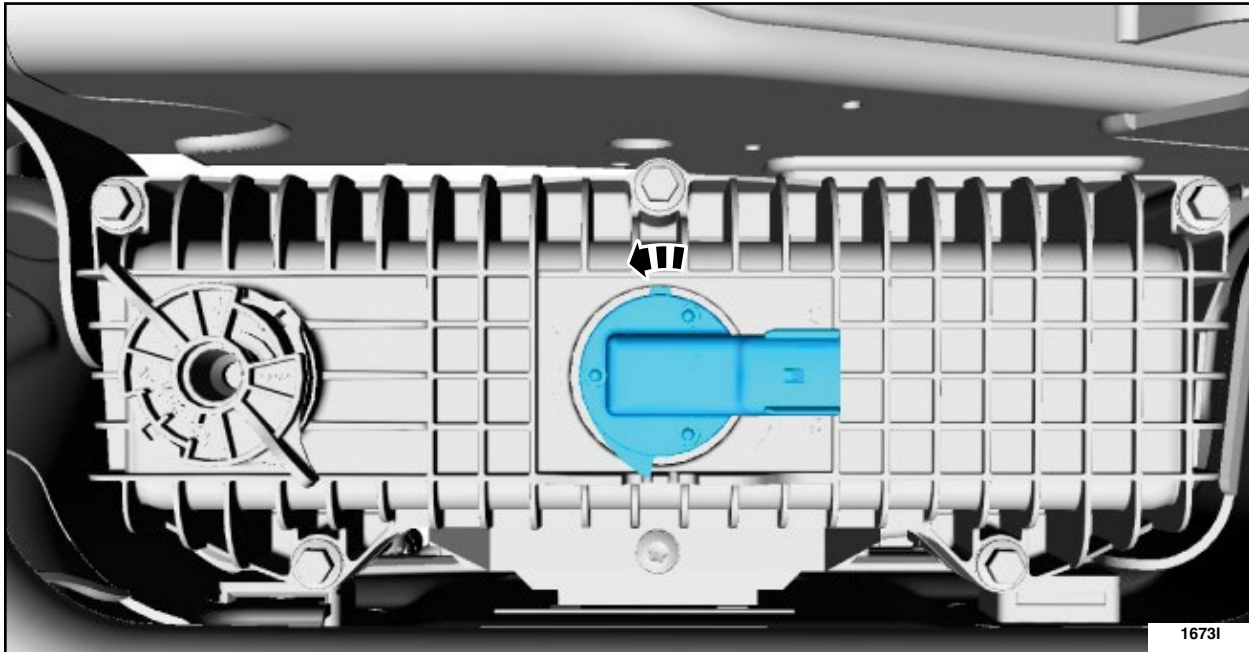


FIGURE 6

10. Reverse the removal procedures using the *new* fuel conditioning module bottom cover.
11. After installing the *new* fuel conditioning module bottom cover, bleed the fuel system. Please follow the WSM procedures in Section 310-00.

