



STAR ONLINE PUBLICATION



Case Number: S2214000004

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Symptom/Vehicle Issue: Water In Fuel (WIF) Light/Message Illumination. Diagnostic Trouble Code (DTC) P238D – Water In Fuel Sensor B Circuit High, Set.

Customer Complaint: Some customers may experience a WIF light/message illumination. Upon inspection the technician may find DTC P238D set in the Powertrain Control Module (PCM) memory.

NOTE: P238D and the condition described is not to be confused with DTC P238F – Water In Fuel Condition Sensor B. If P238F is set, this indicates there is water present in the fuel and will need to be addressed separately per normal published repair procedures pertaining to water in fuel contamination.

Several reports have been received for vehicles setting P238D. The reports indicate the DTC is setting on vehicles with relatively low mileage and may be due to water intrusion into the harness connector at the chassis mounted fuel filter assembly. The source of the water intrusion may be due to spray from a high-pressure water source.

If you receive a vehicle in with this condition, please perform the repair procedure below.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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Repair Procedure:

NOTE: If DTC P238F is also set, the filter assembly must be drained of all water and the fuel be tested for the presence of water contamination.

1. Disconnect the chassis mounted fuel filter assembly electrical connector.
2. Inspect both the harness side and filter housing assembly side of the connector for signs of water and/or corrosion.
3. If the connection shows signs of corrosion, both the filter housing assembly and harness electrical connector must be replaced. If only water is found, proceed to (Step 4).
4. Thoroughly clean and dry the electrical connection.
5. Apply a thin layer of Di-electric grease to the connection and reconnect the connector.
6. Clear the DTCs and cycle the ignition. Did the WIF light/message return and DTC P238D reset active?
 - a. Yes>>> Replace the chassis mounted fuel filter housing assembly. For detailed repair procedures, refer to Service Library Service Information Section 14 – Fuel System > Fuel Delivery, Diesel > Filter, Fuel > Removal and Installation > Chassis Mounted Fuel Filter.
 - b. No>>> Return the vehicle to the customer, repairs are now complete.

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