



STAR ONLINE PUBLICATION



Case Number: S2508000040 REV.A

Release Date: November 2025

Symptom/Vehicle Issue: Low Fuel Light On or Reads Empty After Filling Tank

Customer Complaint/Technician Observation: Technician observes using the scan tool that the Powertrain Control Module (PCM) is displaying a reading indicating low fuel after filling.

▼ Type: All | ● Record | 🏠 Units: Imperial | ▼ Filter Selections | 📊 Graph Selections | ☰ Add To Vehicle Data | 🗑️ Clear Selections | ❤️ 0.75 s | fuel | ✕

MF TLC Control	0 items	+		
Wide Range O2 (WRO2)	2 items	+		
Cylinder Imbalance Detection (CID) monitor	5 items	+		
Fuel Mass and Required Fuel Charge	8 items	+		
PCM Immobilizer Status	1 item	+		
Mega Knock Counters	0 items	+		
Ungrouped Data	17 items	-		
NAME	VALUE	UNIT	TYPE	
Fuel Level Percent	---	%	Bussed Inputs	<input type="checkbox"/>
Fuel Level Sensor #1 Volts	---	Volts	Bussed Inputs	<input type="checkbox"/>

Fuel level reading	Typical resistance of level sensor (Ohms)	Typical raw voltage signal input (volts)
Full Stop (Max full travel)	50 - 60	0.5 - 0.7
Full tank	60 - 75	0.75 - 1.0
1/2 tank	160 - 225	1.6 - 2.2
Empty tank	725 - 770	3.4 - 4
Empty Stop (Max empty travel)	930 - 990	3.9 - 4.5

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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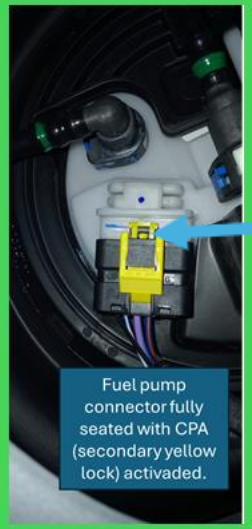



Repair Procedure:

If the PCM voltage reading indicates a low fuel condition after the vehicle is filled without any Diagnostic Trouble Codes (DTCs) it is recommended to perform a reset of the Body Control Module (BCM) using the wiTECH – Guided Diagnostics.

Observe the fuel level data after the reset, if the PCM reads accurately no further service is required. If the fuel gauge still displays inaccurate readings after the reset, inspect connector D6602B at the Fuel Pump Module as shown.

See **09 - Engine, 2.0L / Fuel System / ASSEMBLY, Fuel Pump / Removal and Installation for service panel access information** for access panel removal. If the connector appears improperly seated, unseat and inspect the connector for any terminal damage (repair as needed), if no terminal damage, secure the connector and confirm proper readings to complete.

<p>100% Correct connection & functional. CPA (yellow lock) fully seated & Connector (black connector) fully seated</p>	<p>100% Functional but incorrect connection. CPA (yellow lock) not seated & Connector (black connector) fully seated.</p>
 <p>Fuel pump connector fully seated with CPA (secondary yellow lock) activated.</p>	 <p>Fuel pump connector fully seated with CPA (secondary yellow lock) not activated.</p>
<p>Use the Push-Pull- Push method to validate a secure connection.</p>	

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Verification:

Start the vehicle to determine if the fuel level gauge shows the corresponding level of fuel as expected. If the fuel level gauge is now showing the correct amount, release the vehicle to the customer.

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