



## STAR ONLINE PUBLICATION



**Case Number: S2414000001**

**Release Date: June 2024**

**Symptom/Vehicle Issue:** Malfunction Indicator Lamp (MIL)-On/Check Engine Lamp (CEL)-On.

**Customer Complaint/Technician Observation:** The customer's complaint may include a MIL-On/CEL-On. Upon further investigation, a DTC for P04B5-FUEL FILL DOOR STUCK OPEN may be found set in the Powertrain Control Module (PCM).

**Discussion:** Before proceeding with the repair procedure, record all DTC(s) and Wi-Tech Freeze Frame Data. Run and save a Vehicle Scan Report.

**Repair Procedure:** After recording the above information, follow the procedure below:

1. If the DTC P04B5 is **STORED**, check the number of Good Trips with the scan tool and document the amount. Good Trip location may be found under the Environmental Data of each DTC in the scan tool (see examples on p. 2). Three good trips are required to turn the MIL off. Perform a drive evaluation completing the appropriate number of good trips meeting the conditions described below and make sure the MIL is extinguished at the start of the Fourth Trip. A key cycle must be performed between each trip.
  - a. First Trip = Must drive more than 16 miles, then, drive no less than 25 mph for more than 5 minutes.
  - b. Second Trip = (key cycle) Must drive above 25 mph for more than 5 minutes.
  - c. Third Trip = (key cycle) Must drive above 25 mph for more than 5 minutes.

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.

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## PCM

P04B5 - Fuel Fill Door Stuck Open

Environmental Data

Snapshot Data

NAME	VALUE
Number of DTC	1
DTC	04 B5
DTC Readiness Flag	Complete
DTC Storage State	Active
Warning Indicator Request State	Off
Odometer	2032.1
Accumulation Timer	10
Ignition Key Cycles	48
Starts Since Set Counter	37
Key Cycles Since DTC Last Set Counter	18
Warm Up Cycles	9
Good Trip Counter	1

Environmental Data

Snapshot Data

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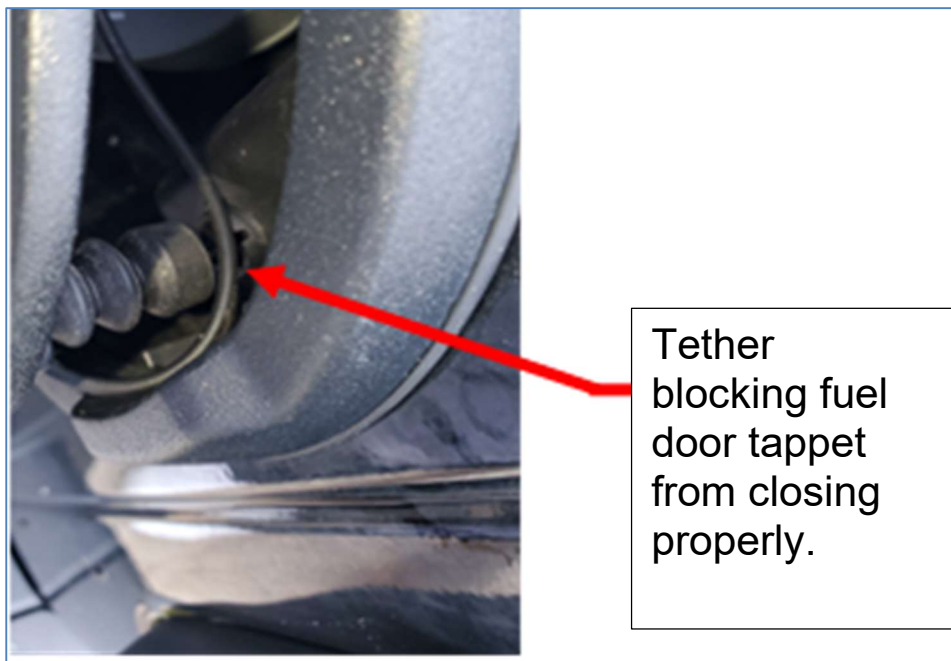
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**Note:** Anytime that the fuel door is opened, the vehicle must be driven more than 16 miles to re-enable the diagnostic. After 16 miles has been accumulated, the vehicle must be driven above 25 mph for more than 5 minutes for the diagnostic to complete.

2. If the DTC P04B5 is **ACTIVE**, then check the fuel door area.
  - a. Is the tether blocking the fuel door from closing properly (See Fig 1). Are there impact marks on the Tether where the Fuel Door Tappet could have been forced closed on the Tether by the customer closing the door?

**Fig 1 - Fuel Door Plunger Tappet and Fuel Cap Tether**



- i. If **YES**, the tether is blocking the fuel door from properly closing.
  - A. Verify that the fuel door plunger tappet is present on the door (Fig 2) and reposition the tether.

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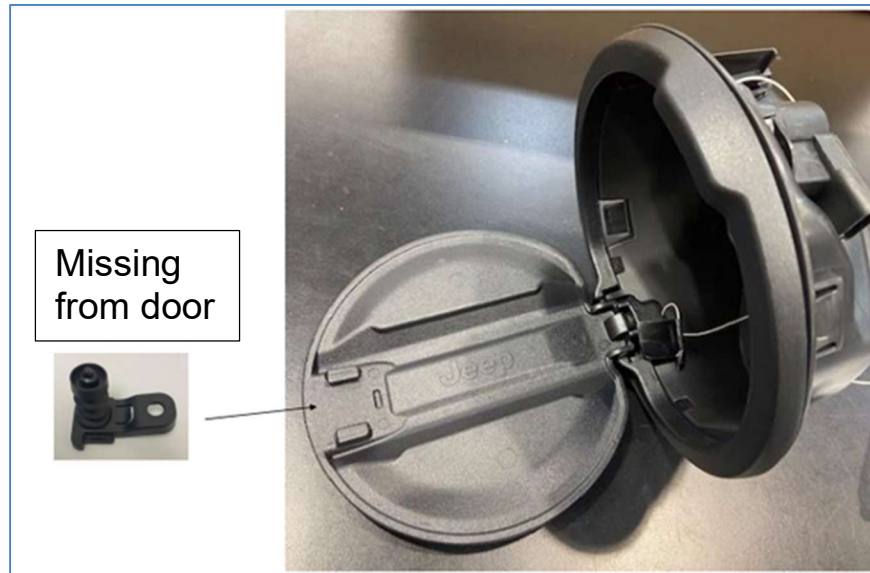
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**Fig 2 Fuel Door with Plunger Tappet Missing**



B. Clear the DTC.

C. Inform the customer of proper positioning of the tether away from the fuel door plunger tappet before properly closing the door.

ii. If NO, the tether is not blocking the fuel door. Check the fuel door to make sure it is properly opening and closing.

A. If the fuel door does not open or close properly, then check the plunger tappet and solenoid for proper alignment or damage. (See Fig 3).

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**Fig 3 - Fuel Door Plunger Tappet and Solenoid**



B. Replace the fuel door plunger tappet and/or fuel door housing accordingly if an issue is found with the plunger tappet and/or solenoid. Proceed to step 3.

b. Check (G66) Fuel Door Status Signal Circuit for a short to ground per Service Diagnostics.

3. Clear the code with the scan tool and proceed on verifying that DTC P04B5 does not repeat by performing the following ride evaluation:

- First Trip = Must drive more than 16 miles, then, drive above 25 mph for more than 5 minutes.
- Second Trip = (key cycle) Must drive above 25 mph for more than 5 minutes.
- Third Trip = (key cycle) Must drive above 25 mph for more than 5 minutes.

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