Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002BM0D
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: M20A-FXS (ENGINE CONTROL): SFI SYSTEM: P06DA13; Engine Oil Pressure Control Circuit Open; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

DTC	**P06DA13**	**Engine Oil Pressure Control Circuit Open**

DESCRIPTION

Refer to DTC P052477.

Click here INFO

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	DTC OUTPUT FROM	PRIORITY	NOTE
P06DA13	Engine Oil Pressure Control Circuit Open	Open or short in oil pressure control valve assembly circuit (1 trip detection logic).	• Open or short in oil pressure control valve assembly circuit • Oil pressure control valve assembly • ECM	Does not come on	Engine	A	SAE Code: P06DA

MONITOR DESCRIPTION

This DTC is designed to detect an open or short in the oil pressure control valve assembly circuit. If the oil pressure control valve duty-cycle is excessively high or low while the ignition switch is ON or the engine is running, the ECM will store this DTC.

CONFIRMATION DRIVING PATTERN

1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
2. Turn the ignition switch off and wait for at least 30 seconds.
3. Turn the ignition switch to ON.
4. Wait 10 seconds or more.
5. Enter the following menus: Powertrain / Engine / Trouble Codes.
6. Read the pending DTCs.

HINT:

- If a pending DTC is output, the system is malfunctioning.
- If a pending DTC is not output, perform the following procedure.

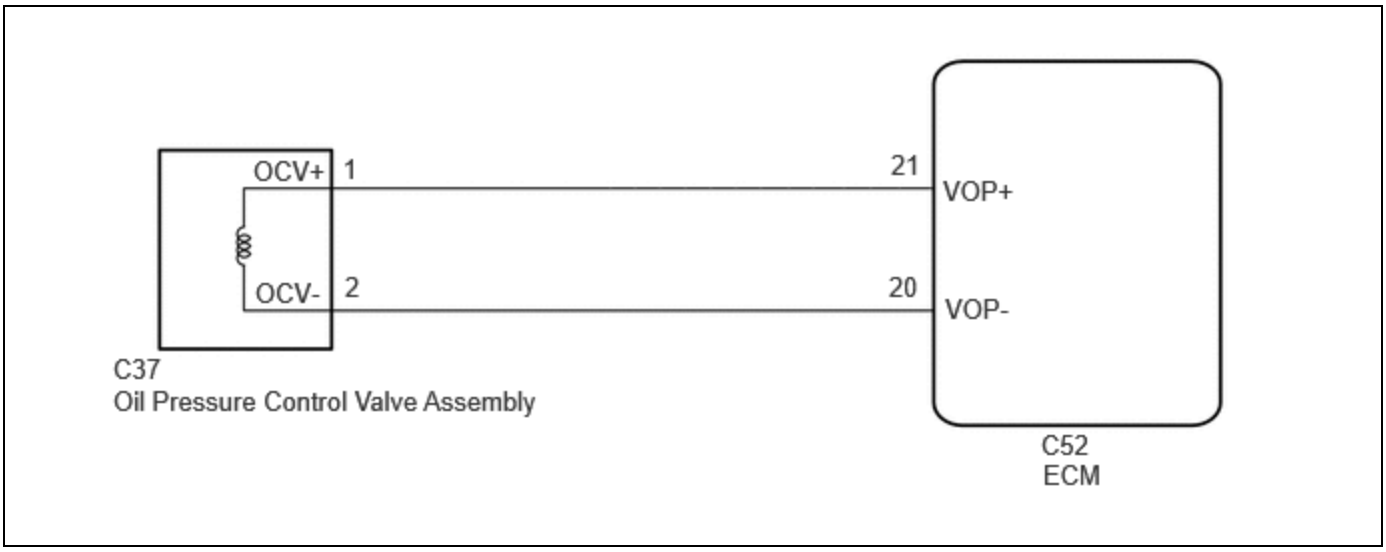
7. Enter the following menus: Powertrain / Engine / Utility / All Readiness.
8. Input the DTC: P06DA13.
9. Check the DTC judgment result.

HINT:

- If the judgment result is NORMAL, the system is normal.

- If the judgment result is ABNORMAL, the system has a malfunction.

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- Vehicle Control History may be stored in the hybrid vehicle control ECU if the engine is malfunctioning. Certain vehicle condition information is recorded when Vehicle Control History is stored. Reading the vehicle conditions recorded in both the freeze frame data and Vehicle Control History can be useful for troubleshooting.

  for HEV Model: Click here INFO

  for PHEV Model: Click here INFO

  (Select Powertrain in Health Check and then check the time stamp data.)
- If any "Engine Malfunction" Vehicle Control History item has been stored in the hybrid vehicle control ECU, make sure to clear it. However, as all Vehicle Control History items are cleared simultaneously, if any Vehicle Control History items other than "Engine Malfunction" are stored, make sure to perform any troubleshooting for them before clearing Vehicle Control History.

  for HEV Model: Click here INFO

  for PHEV Model: Click here INFO

PROCEDURE

1.	**INSPECT OIL PRESSURE CONTROL VALVE ASSEMBLY**

Click here INFO

NG ▶ **REPLACE OIL PRESSURE CONTROL VALVE ASSEMBLY**

OK
▼

2.	**CHECK HARNESS AND CONNECTOR (OIL PRESSURE CONTROL VALVE ASSEMBLY - ECM)**

Pre-procedure1

(a) Disconnect the oil pressure control valve assembly connector.

(b) Disconnect the ECM connector.

Procedure1

(c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

Click Location & Routing(C37,C52)
Click Connector(C37)
Click Connector(C52)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
C37-1 (OCV+) - C52-21 (VOP+)	Always	Below 1 Ω	Ω
C37-2 (OCV-) - C52-20 (VOP-)	Always	Below 1 Ω	Ω
C37-1 (OCV+) or C52-21 (VOP+) - Body ground and other terminals	Always	10 kΩ or higher	kΩ
C37-2 (OCV-) or C52-20 (VOP-) - Body ground and other terminals	Always	10 kΩ or higher	kΩ

Post-procedure1

(d) None.

OK ▶ **REPLACE ECM**

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**