12/16/24, 6:02 PM

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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]		
Title: M20A-FXS (ENGINE CONTROL): SFI SYSTEM: P060E49; Internal Control Module Throttle Position				
Performance Internal Electronic Failure; 2023 - 2024 MY Prius Prius Prime [03/2023 -]				

DTC	P060E49	Internal Control Module Throttle Position Performance Internal Electronic Failure	
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MONITOR DESCRIPTION

The ECM monitors the signals received from the No. 1 throttle position sensor. As the ECM monitors the VTA1 signal of the No. 1 throttle position sensor, if these signals do not correlate, a DTC will be stored.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	DTC OUTPUT FROM	PRIORITY	NOTE
P060E49	Internal Control Module		ECM	Comes	Engine	A	SAE Code: P060E

MONITOR STRATEGY

Related DTCs	P060E: Internal control module throttle position performance
Required Sensors/Components (Main)	ECM
Required Sensors/Components (Related)	-
Frequency of Operation	Continuous
Duration	1 second
MIL Operation	Immediate
Sequence of Operation	None

TYPICAL ENABLING CONDITIONS

Monitor runs whenever the following DTCs are not stored	None
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TYPICAL MALFUNCTION THRESHOLDS

Difference of main throttle position and sub throttle position	0.3 V or higher

CONFIRMATION DRIVING PATTERN

HINT:

• After repair has been completed, clear the DTC and then check that the vehicle has returned to normal by performing the following All Readiness check procedure.

Click here

• When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

Click here NFO

- 1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- 2. Turn the GTS off.
- 3. Turn the ignition switch off.
- 4. Disconnect the GTS.
- 5. Disconnect the cable from the negative (-) auxiliary battery terminal and wait for 1 minute.
- 6. Connect the cable to the negative (-) auxiliary battery terminal.
- 7. Turn the ignition switch to ON.
- 8. Wait 16 seconds or more [A].
- 9. Enter the following menus: Powertrain / Engine / Trouble Codes [B].
- 10. 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.
- 11. Enter the following menus: Powertrain / Engine / Utility / All Readiness.
- 12. Input the DTC: P060E49.
- 13. Check the DTC judgment result.

HINT:

- If the judgment result is NORMAL, the system is normal.
- If the judgment result is ABNORMAL, the system is malfunctioning.
- [A] to [B]: Normal judgment procedure.

The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.

• When clearing the permanent DTCs, do not disconnect the cable from the auxiliary battery terminal or attempt to clear the DTCs during this procedure, as doing so will clear the universal trip and normal judgment histories.

CAUTION / NOTICE / HINT

NOTICE:

• After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) battery terminal.

Click here NFO

• When disconnecting and reconnecting the battery.

HINT:

When disconnecting and reconnecting the battery, there is an automatic learning function that completes learning when the respective system is used.

Click here NFO

• 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

for PHEV Model: Click here

(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

for PHEV Model: Click here NFO

PROCEDURE

1. CLEAR DTC

Pre-procedure1

(a) None.

Procedure1

(b) Clear the DTCs.

Powertrain > Engine > Clear DTCs

Post-procedure1

(c) Turn the ignition switch off.



2. READ OUTPUT DTC (DTC P060E49)

Pre-procedure1

- (a) Disconnect the cable from the negative (-) auxiliary battery terminal and wait for 1 minute.
- (b) Connect the cable to the negative (-) auxiliary battery terminal.
- (c) Turn the ignition switch to ON.
- (d) Wait 16 seconds or more.

Procedure1

(e) Read the DTCs.

Powertrain > Engine > Trouble Codes

RESULT	PROCEED TO	
DTCs are not output	А	
P060E49 is output	В	

Post-procedure1

(f) None.

A CHECK FOR INTERMITTENT PROBLEMS

B REPLACE ECM



