

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM10000002BM0B
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> M20A-FXS (ENGINE CONTROL): SFI SYSTEM: P06579E; Actuator Supply Voltage "A" Stuck On; 2023 - 2024 MY Prius Prius Prime [03/2023 - ]		

<b>DTC</b>	<b>P06579E</b>	<b>Actuator Supply Voltage "A" Stuck On</b>
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## MONITOR DESCRIPTION

The ECM monitors the output voltage to the throttle actuator. This self-check ensures that the ECM is functioning properly. The output voltage is usually 0 V when the ignition switch is turned off. If the output voltage is 7 V or higher when the ignition switch is turned off, the ECM will illuminate the MIL and store this DTC when the ignition switch is turned to ON.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	DTC OUTPUT FROM	PRIORITY	NOTE
P06579E	Actuator Supply Voltage "A" Stuck On	A throttle actuator power supply error (1 trip detection logic).	ECM	Comes on	Engine	A	SAE Code: P0657

## MONITOR STRATEGY

Related DTCs	P0657: Electronic throttle actuator supply voltage circuit performance
Required Sensors/Components (Main)	ECM
Required Sensors/Components (Related)	Throttle actuator
Frequency of Operation	Once per driving cycle
Duration	1 second
MIL Operation	Immediate
Sequence of Operation	None

## TYPICAL ENABLING CONDITIONS

Monitor runs whenever the following DTCs are not stored	None
Both of the following conditions are met	-
Auxiliary battery voltage	8 V or higher
Command to electronic throttle actuator power	Off

## TYPICAL MALFUNCTION THRESHOLDS

Electronic throttle actuator power supply voltage	7 V or higher
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## 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 [INFO](#)

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

Click here [INFO](#)

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 10 seconds or more.
9. Turn the ignition switch off [A].
10. Wait 15 seconds or more.
11. Turn the ignition switch to ON.
12. Wait 5 seconds or more [B].
13. Enter the following menus: Powertrain / Engine / Trouble Codes [C].
14. 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.

15. Enter the following menus: Powertrain / Engine / Utility / All Readiness.
16. Input the DTC: P06579E.
17. 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.
- If the judgment result is INCOMPLETE, perform steps [A] through [C] again.
- [A] to [C]: 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:

- 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](#) 

for PHEV Model: [Click here](#) 

## 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.

## NEXT



### 2. READ OUTPUT DTC (DTC P06579E)

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 10 seconds or more.

(e) Turn the ignition switch off.

(f) Wait 15 seconds or more.

(g) Turn the ignition switch to ON.

(h) Wait 5 seconds or more.

Procedure1

(i) Read the DTCs.

**Powertrain > Engine > Trouble Codes**

RESULT	PROCEED TO
DTCs are not output	A
P06579E is output	B

Post-procedure1

(j) None.

**A** ► **CHECK FOR INTERMITTENT PROBLEMS**

**B** ► **REPLACE ECM**

