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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]	
Title: HYBRID / BATTERY CONTROL	: PLUG-IN CHARGE CONTRO	DL SYSTEM (for PHEV Model): P0E619E; I	Hybrid/EV
Battery Charger Enable Circuit Stuck On; 2023 - 2024 MY Prius Prime [03/2023 -]			

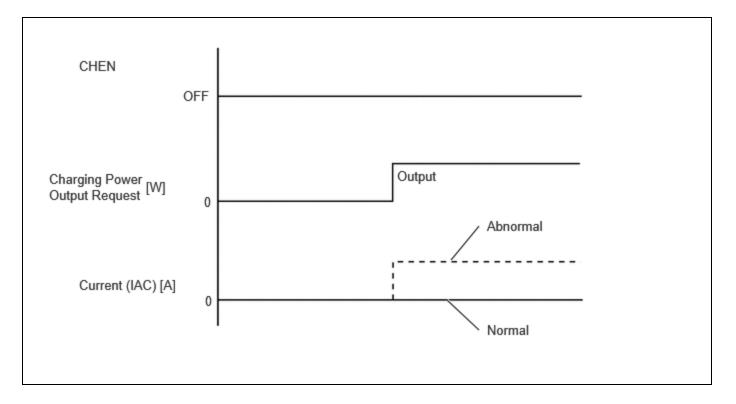
DTC	P0E619E	Hybrid/EV Battery Charger Enable Circuit Stuck On	
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DTC SUMMARY

MALFUNCTION DESCRIPTION

Plugin charge control ECU assembly confirms the CHEN function between plugin charge control ECU assembly and electric vehicle charger assembly when plug-in AC charging starts to health check for mechanical shutdown (SDWN) function due to CHEN signal.

Even if CHEN requests shutdown, electrical current (IAC) is output in conjunction with charging power output request signal, and the state in which CHEN cannot be shutdown is determined to be CHEN function abnormality (electric vehicle charger gate permission signal shutdown impossible).



DESCRIPTION

Plugin charge control ECU assembly checks CHEN function. When a malfunction is detected, the plugin charge control ECU assembly output the DTC.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE		PRIORITY	NOTE
P0E619E	Battery Charger Enable Circuit	When CHEN status is prohibit and power output request signal from electric vehicle charger assembly is higher than determined value, electric current (IAC) output. (1 trip detection logic)	Plugin charge control ECU assembly Electric vehicle charger assembly Wire harness or connector	Comes	Master Warning: Comes on	Plug-in Control	В	SAE Code: P0E64

MONITOR DESCRIPTION

When current (IAC) is output in accordance with the charging power command despite a cut-off (OFF) command during the CHEN function check, and cut-off by CHEN is not possible, the plugin charge control ECU assembly stores a DTC and illuminates the MIL.

MONITOR STRATEGY

Related DTCs	P0E64: Battery Charger Enable Circuit Range/Performance
Required sensors/components	Plugin charge control ECU assembly Electric vehicle charger assembly
Frequency of operation	-
Duration	TMC's intellectual property
MIL operation	1 driving cycle
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not stored	TMC's intellectual property
Other conditions belong to TMC's intellectual property	-

TYPICAL MALFUNCTION THRESHOLDS

TMC's intellectual property	-

COMPONENT OPERATING RANGE

Plug-in charge control ECU	DTC P0E619E is not detected

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 NFO

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

Click here

- 1. Connect the GTS to the DLC3.
- 2. Turn the ignition switch to ON and turn the GTS on.
- 3. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- 4. Turn the ignition switch off and wait for 2 minutes or more.
- 5. Connect the electric vehicle charger cable assembly, and plug-in charge the vehicle for 30 seconds or more. [*1]
- 6. Disconnect the electric vehicle charger cable assembly and wait for 10 seconds or more. [*2]

HINT:

[*1] to [*2]: Normal judgment procedure.

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

- 7. Turn the ignition switch to ON and turn the GTS on.
- 8. Enter the following menus: Powertrain / Plug-in Control / Utility / All Readiness.
- 9. Check the DTC judgment result.

HINT:

- If the judgment result shows NORMAL, the system is normal.
- If the judgment result shows ABNORMAL, the system has a malfunction.
- If the judgment result shows INCOMPLETE or N/A, perform the normal judgment procedure again.

PROCEDURE

1. CHECK DTC OUTPUT (PLUG-IN CONTROL)

Pre-procedure1

(a) Enter the following menus:

Powertrain > Plug-in Control > Trouble Codes

Procedure1

(b) Check for DTCs.

RESULT	PROCEED TO
P0E619E only is output, or DTCs except the ones in the table below are also output.	А
DTCs of plug-in charge control system in the tables below are output.	

MALFUNCTION CONTENT	RELEVANT DTC		
Microcomputer malfunction	P060B49 Plug-in Control Module A/D Processing Internal Electronic Failure		

MALFUNCTION CONTENT	RELEVANT DTC		
	P06881F	DC Quick Charging Control Module Power Relay Sense Circuit Intermittent	
	P1C1F49	Hybrid/EV Battery Charger Control Module A/D Processing Internal Electronic Failure	
Communication system malfunction	P0E5E87	Plug-in Control Module Processor from Hybrid/EV Battery Charger Control Module Processor Missing Message	
	U01BB87	Lost Communication with Battery Charger Control Module "B" Missing Message	
Sensor and actuator circuit malfunction	P0D3812	Hybrid/EV Battery Charger Input Current Sensor Circuit Circuit Short to Auxiliary Battery	
	P0D3814	Hybrid/EV Battery Charger Input Current Sensor Circuit Circuit Short to Ground or Open	
	P0D3828	Hybrid/EV Battery Charger Input Current Sensor Circuit Signal Bias Level Out of Range / Zero Adjustment Failure	
	P1BD812	Hybrid/EV Battery Charger Input Current Sensor "B" Circuit Short to Auxiliary Battery	
	P1BD814	Hybrid/EV Battery Charger Input Current Sensor "B" Circuit Short to Ground or Open	

HINT:

- P0E619E may be output as a result of the malfunction indicated by the DTCs above.
 - a. The chart above is listed in inspection order of priority.
 - b. Check DTCs that are output at the same time by following the listed order. (The main cause of the malfunction can be determined without performing unnecessary inspections.)

Post-procedure1

(c) Turn the ignition switch off.



