Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002BHVA
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for PHEV Model): P0A9563; High Voltage Fuse Accumulated Load History; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	**P0A9563**	**High Voltage Fuse Accumulated Load History**

DESCRIPTION

The battery ECU assembly estimates the thermal load of the high voltage fuse. If the accumulated thermal load exceeds the threshold, the battery ECU assembly will store this DTC.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P0A9563	High Voltage Fuse Accumulated Load History	Accumulated thermal load of the high voltage fuse estimated by the battery ECU assembly exceeds the threshold. (1 trip detection logic)	Service plug grip	Comes on	Master Warning: Comes on	HV Battery	A	SAE Code: P0A95

MONITOR DESCRIPTION

The battery ECU assembly estimates the thermal load of the high voltage fuse. If the accumulated thermal load exceeds the threshold, the battery ECU assembly illuminates the MIL and stores a DTC.

MONITOR STRATEGY

Related DTCs	P0A95 (INF P0A9563): High Voltage Fuse
Required sensors/components	Service plug grip
Frequency of operation	Continuous
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

Battery ECU assembly	DTC P0A95 (INF P0A9563) 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 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 ignition switch off and wait for 2 minutes or more.
3. Turn the ignition switch to ON and wait for 5 minutes or more.[*1]

HINT:

[*1]: Normal judgment procedure.

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

4. Enter the following menus: Powertrain / HV Battery / Utility / All Readiness.
5. 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.

CAUTION / NOTICE / HINT

HINT:

If the service plug grip has been replaced, make sure to perform "High Voltage Fuse Accumulated Load History Reset" and then clear the DTCs.

PROCEDURE

1.	**REPLACE SERVICE PLUG GRIP**

HINT:

Click here INFO

NEXT

2.	**PERFORM UTILITY (HIGH VOLTAGE FUSE ACCUMULATED LOAD HISTORY RESET)**

HINT:

Click here INFO

NEXT

3.	**CLEAR DTC (HV BATTERY)**

Pre-procedure1

(a) None

Procedure1

(b) Clear the DTCs and freeze frame data.

Powertrain > HV Battery > Clear DTCs

NOTICE:

When the DTCs are cleared, the freeze frame data is also cleared.

Post-procedure1

(c) Turn the ignition switch off.

NEXT **COMPLETED**