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Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: M20A-FXS (BATTERY / CHARGING): SOLAR CHARGING SYSTEM: VEHICLE CONTROL HISTORY (RoB); 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

VEHICLE CONTROL HISTORY (RoB)

CHECK VEHICLE CONTROL HISTORY (SOLAR CHARGING SYSTEM)

(a) Enter the following menus.

Powertrain > Solar Charging Control > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

FFD GROUP	CODE	TESTER DISPLAY	MEASUREMENT ITEM	DIAGNOSTIC NOTE
0a	X0567	Hybrid/EV Battery Charging Prohibition by Charging System	Stored when solar charging was temporarily suspended when the hybrid system detects either of the following conditions: • The HV battery is fully charged • The temperature of the HV battery is excessively high or low.	• When suspected cause is HV battery being fully charged: As solar charging will not be performed when the SOC of the HV battery is high, such as after performing plug-in charging, use a system such as the air conditioner to reduce the SOC of the HV battery, then check whether solar charging is performed when exposed to direct sunlight. • When suspected cause is HV battery temperature being excessively high or low: If the HV battery temperature is high, move the vehicle to a cooler location not exposed to direct sunlight, or if it is low, move the vehicle to a warmer location such as a garage. This may enable the issue to be mitigated.
0a	X0569	Auxiliary Battery Charging Stop by Converter Temperature High	Stored when operation of the solar charging system was temporarily suspended due to the temperature of the DC/DC converter of the solar charging system being excessively high.	• As the solar charging system ECU is located under the rear seat, it may become temporarily overheated by heat sources below the vehicle, such as when parking

FFD GROUP	CODE	TESTER DISPLAY	MEASUREMENT ITEM	DIAGNOSTIC NOTE
				on asphalt heated by sunlight on an extremely hot day. • If this Vehicle Control History item is stored frequently, the area where the vehicle is frequently parked may be particularly hot. It may be possible to mitigate the issue by moving the vehicle to a cooler location such as in the shade, or by using a sunshade
0a	X056B	Hybrid/EV Battery Charging Stop by Converter Temperature High	Stored when operation of the solar charging system was temporarily suspended due to the temperature of the DC/DC converter of the solar charging system being excessively high.	• As the solar charging system ECU is located under the rear seat, it may become temporarily overheated by heat sources below the vehicle, such as when parking on asphalt heated by sunlight on an extremely hot day. • If this Vehicle Control History item is stored frequently, the area where the vehicle is frequently parked may be particularly hot. It may be possible to mitigate the issue by moving the vehicle to a cooler location such as in the shade, or by using a sunshade
0a	X056D	Solar Generation Power Stop by Converter Temperature High/Overvoltage	• Stored when operation of the solar charging system was temporarily suspended due to the temperature of the DC/DC converter of the solar charging system being excessively high. • Stored when voltage of the DC/DC converter in the solar charging system was excessively high	• When suspected cause is high DC/DC converter temperature: As the solar charging system ECU is located under the rear seat, it may become temporarily overheated by heat sources below the vehicle, such as when parking on asphalt heated by sunlight on an extremely hot day. • If this Vehicle Control History item is stored frequently, the area where the vehicle is frequently parked may be particularly hot. It may be possible to mitigate the issue by moving the vehicle to a cooler location such as in the shade, or by using a sunshade.

FFD GROUP	CODE	TESTER DISPLAY	MEASUREMENT ITEM	DIAGNOSTIC NOTE
				• When suspected cause is high DC/DC converter voltage: The effects may be caused by an environment with high variability in sunlight exposure, so move the vehicle to a cooler place such as the shade where the effects of sunlight variability will be lessened.
0a	X058C	Hybrid/EV Battery Overvoltage	Stored when voltage of the DC/DC converter in the solar charging system was excessively high during HV battery charging.	May be stored when the HV battery has been used in a method other than usual, so check the DTCs for the HV battery.

CLEAR VEHICLE CONTROL HISTORY (SOLAR CHARGING CONTROL)

(a) Enter the following menus: Powertrain / Solar Charging Control / Utility / Vehicle Control History (Clear).

NOTICE:

By performing this procedure, all stored Vehicle Control History items will be cleared.

CHECK VEHICLE CONTROL HISTORY (SRS AIRBAG)

HINT:

A part of the control history can be confirmed using the Vehicle Control History.

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