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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> M20A-FXS (BATTERY / CHARGING): SOLAR CHARGING SYSTEM: FREEZE FRAME DATA; 2023 - 2024 MY Prius Prius Prime [03/2023 - ]		

## FREEZE FRAME DATA

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#### HINT:

The solar energy control ECU assembly records vehicle and driving condition information as freeze frame data the moment a DTC is stored. It can be used for estimating or duplicating the vehicle conditions that were present when the malfunction occurred.

(a) Enter the following menus.

**Powertrain > Solar Charging Control > Trouble Codes**

(b) Select a DTC in order to display its freeze frame data.

**Powertrain > Solar Charging Control**

TESTER DISPLAY
Total Distance Traveled
Total Distance Traveled - Unit
ACC Signal
IGCT Signal
IG2 Information
Hybrid/EV Control System Control Mode
Solar System Mode
Solar System Status
AMD Terminal Voltage
AMD Terminal Voltage Sensor Voltage
Large Capacity Condenser Voltage
Large Capacity Condenser Voltage Sensor Voltage

TESTER DISPLAY
Condenser Discharge Switch Drive Signal
Hybrid/EV Battery Charging Permission Status
Hybrid/EV Battery Charge Request
Hybrid/EV Battery 1 Voltage
Hybrid/EV Battery 1 Voltage Sensor Voltage
Hybrid/EV Battery 2 Voltage
Hybrid/EV Battery 2 Voltage Sensor Voltage
Middle Voltage
Middle Voltage Sensor Voltage
Middle Circuit Overvoltage (Soft)
Solar Charging Control ECU System Voltage
Solar Charging Power Request
Solar Charging Mode
Solar Charging Status
Solar Charging Permission Signal (Line)
Solar Charging Permission Signal (CAN)
Solar Charging Stop Factor (Hybrid/EV)
Solar Panel 1 Output Voltage
Solar Panel 1 Output Voltage Sensor Voltage

TESTER DISPLAY
Solar Panel 2 Output Voltage
Solar Panel 2 Output Voltage Sensor Voltage
Auxiliary Battery DC/DC Converter Drive Request
Auxiliary Battery DC/DC Converter Target Limit Voltage
Auxiliary Battery DC/DC Converter Target Power Feeding
Auxiliary Battery DC/DC Converter Output Voltage
Auxiliary Battery DC/DC Converter Output Voltage Sensor Voltage
Auxiliary Battery DC/DC Converter Output Current 1
Auxiliary Battery DC/DC Converter Output Current 2
Auxiliary Battery DC/DC Converter Output Power
Auxiliary Battery DC/DC Converter 1 Temperature
Auxiliary Battery DC/DC Converter 2 Temperature
Auxiliary Battery DC/DC Converter 3 Temperature
Auxiliary Battery DC/DC Converter Temperature Limit
Auxiliary Battery DC/DC Converter Request Duty
Solar DC/DC Converter 1 Input Current
Solar DC/DC Converter 1 Output Current
Solar DC/DC Converter 2 Input Current
Solar DC/DC Converter 2 Output Current

TESTER DISPLAY
Solar DC/DC Converter 1 Input Power
Solar DC/DC Converter 1 Output Power
Solar DC/DC Converter 2 Input Power
Solar DC/DC Converter 2 Output Power
Solar DC/DC Converter 1 Temperature
Solar DC/DC Converter 2 Temperature
Solar DC/DC Converter 1 Temperature Limit
Solar DC/DC Converter 2 Temperature Limit
Solar DC/DC Converter 1 Step Down Upper Duty
Solar DC/DC Converter 1 Step Down Lower Duty
Solar DC/DC Converter 1 Boost Upper Duty
Solar DC/DC Converter 2 Step Down Upper Duty
Solar DC/DC Converter 2 Step Down Lower Duty
Solar DC/DC Converter 2 Boost Upper Duty
Boosting DC/DC Converter Input Current
Boosting DC/DC Converter Input Power
Boosting DC/DC Converter Temperature
Boosting DC/DC Converter Temperature Limit
Boosting DC/DC Converter Request Duty

TESTER DISPLAY
Boosting DC/DC Converter Overvoltage (Soft)
DC/DC Converter Limit Factor (Middle Circuit Overvoltage (Hard))
DC/DC Converter Limit Factor (Boosting DC/DC Converter Overvoltage (Hard))
DC/DC Converter Short Circuit Switch Drive Signal

