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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]	
Title: POWER DISTRIBUTION: SUB BATTERY SYSTEM: DATA LIST / ACTIVE TEST; 2023 - 2024 MY Prius Prius Prime				

[12/2022 -

DATA LIST / ACTIVE TEST

READ DATA LIST

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NOTICE:

In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

HINT:

Using the GTS to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

(a) Read the Data List according to the display on the GTS.

Body Electrical > Sub Battery System > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
Total Distance Traveled	Total distance traveled	0 to 16777215	-
Total Distance Traveled - Unit	Total distance traveled unit	km or mile	-
IGR Switch	IG terminal status is indicated	OFF or ON	-
H Switch	Internal relay status of sub battery system is indicated	OFF or ON	-
BR Signal	Communication status of shift by wire is indicated	0 to 100 %	-
RO Signal	Communication status of shift by wire is indicated	0 to 100 %	-
Door Unlock Operation Request Signal at Collision	Status of collision signal is indicated	OFF or ON	-
Door Courtesy Signal	Open/closed status of driver door is indicated	OFF or ON	

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
Wake Up Request Signal	Status of WU1 terminal is displayed	OFF or ON	-
DC/DC Converter Status	Internal charge/discharge control status of sub battery system is displayed	Stop, Charging or Discharging	-
System Voltage Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
System Voltage	Battery voltage of +B terminal is displayed	0 to 19.15 V	-
AECU Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
AECU Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	-
AECU Output Current	Output current from sub battery system is indicated	0 to 6.25 A	-
A2ECU Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	-
BECU Relay	Internal relay status of sub battery system is indicated	OFF or ON	May not exist depending on vehicle model
BECU Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	May not exist depending on vehicle model
BECU Output Current	Output current from sub battery system is indicated	0 to 6.25 A	-
CECU Relay	Internal relay status of sub battery system is indicated	OFF or ON	May not exist depending on vehicle model

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
CECU Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	May not exist depending on vehicle model
CECU Output Current	Output current from sub battery system is indicated	0 to 6.25 A	-
AACT Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
AACT Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	-
AACT Output Current	Output current from sub battery system is indicated	0 to 41.7 A	-
BACT Relay	Internal relay status of sub battery system is indicated	OFF or ON	May not exist depending on vehicle model
BACT Upstream Through Relay	Internal relay status of sub battery system is indicated	OFF or ON	May not exist depending on vehicle model
BACT Downstream Through Relay	Internal relay status of sub battery system is indicated	OFF or ON	May not exist depending on vehicle model
BACT Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	May not exist depending on vehicle model
BACT Output Current	Output current from sub battery system is indicated	0 to 41.7 A	-
CACT Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
CACT Output Voltage	Output voltage from sub battery system is indicated	0 to 17.6 V	-

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TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
CACT Output Current	Output current from sub battery system is indicated	0 to 41.7 A	-
Dark Current Cut Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
Backflow Prevention Circuit Downstream Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
Backflow Prevention Circuit Upstream Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
Inflow Prevention Relay	Internal relay status of sub battery system is indicated	OFF or ON	-
Charging Circuit Information	Internal relay status of sub battery system is indicated	OFF or ON	-
Cell Balance Circuit Information	Internal relay status of sub battery system is indicated	OFF or ON	-
Reset Prevention Circuit Information	Internal relay status of sub battery system is indicated	OFF or ON	-
Control Status	Control status of sub battery system is indicated	BRK Wraparound Measures, Backup Capacity Unallocated (Backup Impossible), Backup Capacity Allocated (System 1 Backup Possible Backup Impossible) or Backup Capacity Al**cut**	-
BUV Voltage	Voltage by internal BUV of sub battery system is indicated	0 to 19.15 V	-
PWB Voltage	Voltage by internal PWB of sub battery system is indicated	0 to 19.3 V	-
PWB Current	Current by PWB of sub battery system is indicated	-100 to 100 A	-

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TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
Capacitor Voltage	Charging voltage of sub battery system is indicated	0 to 25 V	-
Capacitor Current	Charging and discharging current of sub battery system is indicated	-100 to 100 A	-
Capacitor Temperature	Temperature of sub battery system is indicated	-40 to 150 °C	-
Capacitor Resistance Calculation Value	Deterioration status of sub battery system is indicated	0 to 500 mohm	-
Capacitor Capacity Calculation Value	Deterioration status of sub battery system is indicated	0 to 100 F	-
Unit Temperature 1	Temperature of sub battery system is indicated	-40 to 150 °C	-
Unit Temperature 2	Temperature of sub battery system is indicated	-40 to 150 °C	-
Protection Circuit Diagnosis Signal (GND Overcurrent Detection)	Operation status of protection circuit due to overcurrent is indicated	OFF or ON	-
Protection Circuit Diagnosis Signal (PWB Overvoltage Detection)	Operation status of protection circuit due to overvoltage is indicated	OFF or ON	-
Protection Circuit Diagnosis Signal (PWB Overcurrent Detection)	Operation status of protection circuit due to overcurrent is indicated	OFF or ON	-
Protection Circuit Diagnosis Signal (PWC Overcurrent Detection)	Operation status of protection circuit due to overcurrent is indicated	OFF or ON	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
Total ECU Boot Up Time after IGR ON	Accumulated startup time of ECU of sub battery system is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (Less Than -30C/-22F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (-30C/-22F - -19C/-2.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (-20C/-4F - -9C/15.8F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (-10C/14F - -1C/30.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (0C/32F - 9C/48.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (10C/50F - 14C/57.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (15C/59F - 19C/66.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (20C/68F - 24C/75.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-

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TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
Total ECU Boot Up Time after IGR ON (25C/77F - 29C/84.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (30C/86F - 34C/93.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (35C/95F - 39C/102.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (40C/104F - 44C/111.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (45C/113F - 49C/120.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (50C/122F - 54C/129.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (55C/131F - 59C/138.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (60C/140F - 64C/147.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-
Total ECU Boot Up Time after IGR ON (65C/149F - 69C/156.2F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	DIAGNOSTIC NOTE
Total ECU Boot Up Time after IGR ON (More Than 70C/158F)	Accumulated startup time of ECU of sub battery system at each temperature range is indicated	0 to 2147483647 sec	-

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