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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: PARK ASSIST / MONITORING: BLIND SPOT MONITOR SYSTEM: DATA LIST / ACTIVE TEST; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DATA LIST / ACTIVE TEST

DATA LIST

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 > Blind Spot Monitor "B" > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Total Distance Traveled	Total distance traveled	0 to 16777215	-	-
Total Distance Traveled - Unit	Total Distance Traveled - Unit	km / mile	-	-
Power Supply Voltage	Power supply voltage	0 to 49.95 V	-	-
BSM Outer Mirror Indicator Information (Left)	Status of indicator	Extinction / Lighting / Blinking	-	-
BSM Outer Mirror Indicator Information (Right)	Status of indicator	Extinction / Lighting / Blinking	-	-
LED Outer Mirror Indicator Voltage (Currently Value)	Voltage value of indicator	0 to 25.5 V	-	-
LED Outer Mirror Indicator Current (Currently Value)	Electrical current value of indicator	0 to 255 mA	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Dimmer Signal	Status of dimmer signal	OFF / ON	-	-
Door Open Buzzer Sound Request	Displays the status of the safe exit assist system function door open buzzer.	OFF / ON (Reject) / ON (Warning)	OFF: The safe exit assist system function buzzer not sounding ON (door open cancel): Not used for the safe exit assist system function ON (warning): The safe exit assist system function buzzer sounding	-
Clearance Warning Buzzer Support	Status of clearance warning buzzer support	Pending / Not Support / Support	-	-
RCTA Equipped Information	State of the RCTA equipped information	Without / With	With: RCTA function equipped Without: RCTA function not equipped	-
DRS System	State of the DRS system equipped information	Without / With	With: DRC system function equipped Without: DRS system function not equipped	-
Outer Mirror Type	Status of outer mirror type	Pending, Optical or Electronic	-	-
Shift Position R	State of the shift position R signal	OFF / ON	OFF: Shift position in any other than R ON: Shift position in R	-
Vehicle Speed	Vehicle speed signal	-327.68 to 327.67 km/h	Almost same as actual vehicle speed	-
Steering Angle	Steering angle sensor	-3072 to 3070.5 deg	Left turn: Increases Right turn: Decreases	-
Yaw Rate	Yaw rate sensor	-125 to 124.612 deg/s	Turning right: -124.928 to 0 deg/s	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Turning left: 0 to 124.684 deg/s	
Turn Switch	State of the turn signal switch	Left / Right / OFF	Left: Left turn signal switch on Right: Right turn signal switch on OFF: Turn signal switch off	-
Steering Wheel Information	State of the steering wheel information	Pending / Left / Right	Pending: Pending Left: LHD Right: RHD	-
Axis Adjustment Error Code	Represents Axis Adjustment Error Code	Normal/15	-	-
Software Write Status	Represents the software write state	After Writing Software / Before Writing Software	-	-
BSM Main Switch Operation Count (Data 1)	Number of times BSM main switch was operated	0 to 66635	-	-
BSM Main Switch Operation Count (Data 2)	Number of times BSM main switch was operated	0 to 66635	-	-
RCTA Main Switch Operation Count (Data 1)	Number of times RCTA main switch was operated	0 to 66635	-	-
RCTA Main Switch Operation Count (Data 2)	Number of times RCTA main switch was operated	0 to 66635	-	-
BSM Alert Options Operation Count	Number of times BSM alert options was operated	0 to 65535	-	-
BSM 2nd Stage Warning Operation Count (for Indicator)	Number of times BSM 2nd stage warning (for indicator) was operated	0 to 65535	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
BSM 2nd Stage Warning Operation Count (for Buzzer Alert)	Number of times BSM 2nd stage warning (for buzzer alert) was operated	0 to 65535	-	-
BSM 2nd Stage Warning Operation Count (for Steering Vibration)	Number of times BSM 2nd stage warning (for steering vibration) was operated	0 to 65535	-	-
L-BSM Mode Operation Count	Number of times L-BSM was operated	0 to 66635	-	-
Outer Mirror Indicator Brightness Setting Operation Count	Number of times outer mirror indicator brightness setting was operated	0 to 66635	-	-
RCTA Buzzer Volume Level Operation Count	Number of times RCTA buzzer volume setting was operated	0 to 66635	-	-
Yaw Rate Sensor Malfunction	State of yaw rate sensor malfunction	No / Yes	-	-
Speed Sensor Malfunction	State of speed sensor malfunction	No / Yes	-	-
Rear Side Radar Sensor Blockage	Displays whether the radar sensor is dirty	No / Yes	-	-
Software Not Programmed	Viewing the status of a software write	No / Yes	-	-
Rear Side Radar Sensor Blockage Level 2	Displays whether the radar sensor is dirty	No / Yes	-	-
Rear Side Radar Sensor Outside Guaranteed Operating Temperature	Displays whether the radar sensor has an abnormal temperature malfunction	No / Yes	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Rear Side Radar Sensor Outside Guaranteed Operating Voltage	Displays whether the radar sensor has an abnormal voltage malfunction	No / Yes	-	-
Rear Side Radar Sensor Beam Axis Not Adjusted	Displays radar sensor beam axis alignment	No / Yes	-	-
Accelerator Sensor Malfunction	Displays the status of an accelerator sensor	No / Yes	-	-
Automatic Brake Malfunction (Sub)	Displays the status of an automatic brake (sub)	No / Yes	-	-
Automatic Brake Malfunction (Main)	Displays the status of an automatic brake (Main)	No / Yes	-	-
Stop Light Relay Malfunction	Displays the status of a stop light relay	No / Yes	-	-
DRS System Malfunction	Displays the status of a DRS system	No / Yes	-	-
Module Partial Blockage	Display the status of module part dirt	No / Yes	-	-
Driver User Number	Displays the user number of the driver seat	Indeterminate / User 1 / User 2 / User 3 / Guest	-	-
Driver Classification	Displays the driver classification	Undefined / Normal / Plus Support	-	-
Plus Support Function	Displays the plus support function	Without / With	With: Equipped with plus support function Without: Not equipped with plus support function	-
SEA Support	Displays the state of safe exit assist system	Not Support / Support	With: Equipped with safe exit assist system function support	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
			Without: Not equipped with safe exit assist system function support	
D Door Type	Driver door type	Normal / e-Latch	-	-
P Door Type	Front passenger door type	Normal / e-Latch	-	-
RR Door Type	Rear right door type	Normal / e-Latch / PSD	-	-
RL Door Type	Rear left door type	Normal / e-Latch / PSD	-	-
Right PSD Malfunction	PSD right side malfunction	No / Yes	-	-
Left PSD Malfunction	PSD left side malfunction	No / Yes	-	-
e-Latch Malfunction	e-Latch system malfunction	No / Yes	-	-
SEA Function	Safe exit assist system function availability	Valid / Invalid	-	-
SEA Function Set Invalid History	Safe exit assist system function invalid settings availability	Not Recorded / Recorded	-	-
SEA Right Door Control Setting	Safe exit assist system right side door control settings	OFF / ON	-	-
SEA Left Door Control Setting	Safe exit assist system left side door control settings	OFF / ON	-	-
SEA Voice Setting	Safe exit assist system audio settings	OFF / ON	-	-
SEA Detection Sensitivity	Safe exit assist system detection sensitivity	Low / Middle / High	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
SEA Prior Warning Setting (Guest)	Status of safe exit assist system advanced warning settings (guest)	OFF / ON	-	-
SEA Prior Warning Setting (Driver3)	Status of safe exit assist system advanced warning settings (driver 3)	OFF / ON	-	-
SEA Prior Warning Setting (Driver2)	Status of safe exit assist system advanced warning settings (driver 2)	OFF / ON	-	-
SEA Prior Warning Setting (Driver1)	Status of safe exit assist system advanced warning settings (driver 1)	OFF / ON	-	-
Outer Mirror Indicator Brightness (Driver1)	Status of outer mirror indicator brightness setting (driver 1)	Dim / Bright	-	-
Outer Mirror Indicator Brightness (Driver2)	Status of outer mirror indicator brightness setting (driver 2)	Dim / Bright	-	-
Outer Mirror Indicator Brightness (Driver3)	Status of outer mirror indicator brightness setting (driver 3)	Dim / Bright	-	-
Outer Mirror Indicator Brightness (Guest)	Status of outer mirror indicator brightness setting (guest)	Dim / Bright	-	-
L-BSM Mode (Guest)	Status of L-BSM mode setting (guest)	Short / Middle / Long	-	-
L-BSM Mode (Driver3)	Status of L-BSM mode setting (driver 3)	Short / Middle / Long	-	-
L-BSM Mode (Driver2)	Status of L-BSM mode setting (driver 2)	Short / Middle / Long	-	-
L-BSM Mode (Driver1)	Status of L-BSM mode setting (driver 1)	Short / Middle / Long	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
L-BSM Mode (Plus Support)	Status of L-BSM mode setting (plus support)	Short / Middle / Long	-	-
SEA Detection Sensitivity (Guest)	Status of SEA detection sensitivity (guest)	Low / Middle / High	-	-
SEA Detection Sensitivity (Driver3)	Status of SEA detection sensitivity (driver 3)	Low / Middle / High	-	-
SEA Detection Sensitivity (Driver2)	Status of SEA detection sensitivity (driver 2)	Low / Middle / High	-	-
SEA Detection Sensitivity (Driver1)	Status of SEA detection sensitivity (driver 1)	Low / Middle / High	-	-
SEA Detection Sensitivity (Plus Support)	Status of SEA detection sensitivity (plus support)	Low / Middle / High	-	-
RCTA Buzzer Volume Setting (Driver1)	Status of RCTA sound volume setting (driver 1)	Small / Medium / Large	-	-
RCTA Buzzer Volume Setting (Driver2)	Status of RCTA sound volume setting (driver 2)	Small / Medium / Large	-	-
RCTA Buzzer Volume Setting (Driver3)	Status of RCTA sound volume setting (driver 3)	Small / Medium / Large	-	-
RCTA Buzzer Volume Setting (Guest)	Status of RCTA sound volume setting (guest)	Small / Medium / Large	-	-
RCTA Buzzer Volume Setting (Plus Support)	Status of RCTA sound volume setting (plus support)	Small / Medium / Large	-	-
Outer Mirror Indicator Brightness	Status of outer mirror indicator brightness setting	Dim / Bright	Dim: Outer mirror indicator is dimmed Bright: Outer mirror indicator is not dimmed	-
LED Outer Mirror Indicator Current	Electrical current flow to indicator in Bright setting with	0 to 100 mA	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
(Dimmer OFF, Bright)	dimmer OFF			
LED Outer Mirror Indicator Current (Dimmer OFF, Dim)	Electrical current flow to indicator in Dim setting with dimmer OFF	0 to 100 mA	-	-
LED Outer Mirror Indicator Current (Dimmer ON, Bright)	Electrical current flow to indicator in Bright setting with dimmer ON	0 to 100 mA	-	-
LED Outer Mirror Indicator Current (Dimmer ON, Dim)	Electrical current flow to indicator in Dim setting with dimmer ON	0 to 100 mA	-	-
LED Outer Mirror Indicator Blinking Duty Ratio	Duty ratio when indicator blinking	0 to 100 %	-	-
Prior Warning Setting	ON/OFF status of indicator illumination for the safe exit assist system function when all of the doors are closed	OFF / ON	-	-
L-BSM Mode	Status of L-BSM mode setting	Short / Middle / Long	-	-
BSM Alert Options Setting	Display BSM alert option settings	Indicator Only / Indicator + Buzzer	-	-
BSM Function	State of the BSM function	Valid / Invalid	-	-
RCTA Function	State of the RCTA function	Valid / Invalid	-	-
Beam Axis Revision Angle	Compensation angle of beam axis	-327.68 to 327.67 deg	-	-
Beam Axis Adjustment Completion Status	Represents beam axis adjustment completed state	Incompleted / Completed	Incompleted: Beam axis adjustment not completed Completed: Beam axis adjustment completed	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Destination Information	Status of destination information confirmation	Defined / Undefined	Defined: Destination information is confirmed Undefined: Destination information is not confirmed	-
Dealer Radar Emission Stop Mode	Represents the dealer radio wave transmission stop mode state	OFF/ON	-	-
RCTA Function Set Invalid History	Change status of invalid settings of the rear cross traffic alert function.	Not Recorded / Recorded	-	-
BSM Function Set Invalid History	Change status of invalid settings of the blind spot monitor system function.	Not Recorded / Recorded	-	-
BSM Alert Options Setting (Guest)	Display BSM alert option settings	Indicator Only / Indicator + Buzzer	-	-
BSM Alert Options Setting (Driver3)	Display BSM alert option settings	Indicator Only / Indicator + Buzzer	-	-
BSM Alert Options Setting (Driver2)	Display BSM alert option settings	Indicator Only / Indicator + Buzzer	-	-
BSM Alert Options Setting (Driver1)	Display BSM alert option settings	Indicator Only / Indicator + Buzze	-	-
BSM Alert Options Setting (Plus Support)	Display BSM alert option settings	Indicator Only / Indicator + Buzzer	-	-

Body Electrical > Blind Spot Monitor "A" > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Total Distance Traveled	Total distance traveled	0 to 16777215	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Total Distance Traveled - Unit	Total Distance Traveled - Unit	km / mile	-	-
Power Supply Voltage	Power supply voltage	0 to 49.95 V	Ignition switch ON: 11 to 14 V	-
LED Outer Mirror Indicator Voltage (Currently Value)	Voltage value of indicator	0 to 25.5 V	-	-
LED Outer Mirror Indicator Current (Currently Value)	Electrical current value of indicator	0 to 255 mA	-	-
Dimmer Signal	Status of dimmer signal	OFF / ON	-	-
Buzzer Sound Request	Alarm status of RCTA buzzer (Meter buzzer)	OFF / ON	OFF: When the following condition is not met ON: While the rear cross traffic alert function is operating, the sensor issues a vehicle warning	-
Clearance Warning Buzzer Support	Status of clearance warning buzzer support	Pending / Not Support / Support	-	-
RCTA Equipped Information	State of the RCTA equipped information	Without / With	With: RCTA function equipped Without: RCTA function not equipped	-
DRS System	State of the DRS system equipped information	Without / With	With: DRC system function equipped Without: DRS system function not equipped	-
Outer Mirror Type	Status of outer mirror type	Pending, Optical or Electronic	-	-
Shift Position R	State of the shift position R signal	OFF / ON	OFF: Shift position in any other than R ON: Shift position in R	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Vehicle Speed	Vehicle speed signal	-327.68 to 327.67 km/h	Almost same as actual vehicle speed	-
Steering Angle	Steering angle sensor	-3072 to 3070.5 deg	Left turn: Increases Right turn: Decreases	-
Yaw Rate	Yaw rate sensor	-125 to 124.612 deg/s	Turning right: -124.928 to 0 deg/s Turning left: 0 to 124.684 deg/s	-
Turn Switch	State of the turn signal switch	Left / Right / OFF	Left: Left turn signal switch on Right: Right turn signal switch on OFF: Turn signal switch off	-
Steering Wheel Information	State of the steering wheel information	Pending / Left / Right	Pending: Pending Left: LHD Right: RHD	-
Axis Adjustment Error Code	Represents Axis Adjustment Error Code	Normal/15	-	-
Software Write Status	Represents the software write state	After Writing Software / Before Writing Software	-	-
BSM Main Switch Operation Count (Data 1)	Number of times BSM main switch was operated	0 to 66635	-	-
BSM Main Switch Operation Count (Data 2)	Number of times BSM main switch was operated	0 to 66635	-	-
RCTA Main Switch Operation Count (Data 1)	Number of times RCTA main switch was operated	0 to 66635	-	-
RCTA Main Switch Operation Count (Data 2)	Number of times RCTA main switch was operated	0 to 66635	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Rear Side Radar Sensor Blockage	Displays whether the radar sensor is dirty	No / Yes	-	-
Software Not Programmed	Viewing the status of a software write	No / Yes	-	-
Rear Side Radar Sensor Blockage Level 2	Displays whether the radar sensor is dirty	No / Yes	-	-
Rear Side Radar Sensor Outside Guaranteed Operating Temperature	Displays whether the radar sensor has an abnormal temperature malfunction	No / Yes	-	-
Rear Side Radar Sensor Outside Guaranteed Operating Voltage	Displays whether the radar sensor has an abnormal voltage malfunction	No / Yes	-	-
Rear Side Radar Sensor Beam Axis Not Adjusted	Displays radar sensor beam axis alignment	No / Yes	-	-
Module Partial Blockage	Display the status of module part dirt	No / Yes	-	-
SEA Support	Displays the state of safe exit assist system	Not Support / Support	With: Equipped with safe exit assist system function support Without: Not equipped with safe exit assist system function support	-
D Door Type	Driver door type	Normal / e-Latch	-	-
P Door Type	Front passenger door type	Normal / e-Latch	-	-
RR Door Type	Rear right door type	Normal / e-Latch / PSD	-	-
RL Door Type	Rear left door type	Normal / e-Latch / PSD	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
SEA Function	Safe exit assist system function availability	Valid / Invalid	-	-
SEA Function Set Invalid History	Safe exit assist system function invalid settings availability	Not Recorded / Recorded	-	-
SEA Detection Sensitivity	Safe exit assist system detection sensitivity	Low / Middle / High	-	-
Outer Mirror Indicator Brightness	Status of outer mirror indicator brightness setting	Dim / Bright	Dim: Outer mirror indicator is dimmed Bright: Outer mirror indicator is not dimmed	-
LED Outer Mirror Indicator Current (Dimmer OFF, Bright)	Electrical current flow to indicator in Bright setting with dimmer OFF	0 to 100 mA	-	-
LED Outer Mirror Indicator Current (Dimmer OFF, Dim)	Electrical current flow to indicator in Dim setting with dimmer OFF	0 to 100 mA	-	-
LED Outer Mirror Indicator Current (Dimmer ON, Bright)	Electrical current flow to indicator in Bright setting with dimmer ON	0 to 100 mA	-	-
LED Outer Mirror Indicator Current (Dimmer ON, Dim)	Electrical current flow to indicator in Dim setting with dimmer ON	0 to 100 mA	-	-
LED Outer Mirror Indicator Blinking Duty Ratio	Duty ratio when indicator blinking	0 to 100 %	-	-
RCTA Buzzer Volume	Display RCTA buzzer volume	Small / Medium / Large	-	-
L-BSM Mode	Status of L-BSM mode setting	Short / Middle / Long	-	-
BSM Alert Options Setting	Display BSM alert option settings	Indicator Only / Indicator + Buzzer	-	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
BSM Function	State of the BSM function	Valid / Invalid	-	-
RCTA Function	State of the RCTA function	Valid / Invalid	-	-
Beam Axis Revision Angle	Compensation angle of beam axis	-327.68 to 327.67 deg	-	-
Beam Axis Adjustment Completion Status	Represents beam axis adjustment completed state	Incompleted / Completed	Incompleted: Beam axis adjustment not completed Completed: Beam axis adjustment completed	-
Destination Information	Status of destination information confirmation	Defined / Undefined	Defined: Destination information is confirmed Undefined: Destination information is not confirmed	-
Dealer Radar Emission Stop Mode	Represents the dealer radio wave transmission stop mode state	OFF/ON	-	-
RCTA Function Set Invalid History	Change status of invalid settings of the rear cross traffic alert function.	Not Recorded / Recorded	-	-
BSM Function Set Invalid History	Change status of invalid settings of the blind spot monitor system function.	Not Recorded / Recorded	-	-

ACTIVE TEST

HINT:

Using the GTS to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

(a) According to the display on the GTS, perform the Active Test.

Body Electrical > Blind Spot Monitor "B" > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
Door Open Buzzer Sound	Sound the buzzer	OFF or ON	-

Body Electrical > Blind Spot Monitor "A" > Active Test

TESTER DISPLAY	MEASUREMENT ITEM	CONTROL RANGE	DIAGNOSTIC NOTE
RCTA Buzzer Sound	RCTA buzzer	Stop or Start	Confirm that the vehicle is stopped and the ignition switch is ON

*: Once activated, it will not work for about 7 minutes, so if you want to activate it again, wait about 7 minutes.