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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B116049,...,P05BB00; Airbag ECU (Microcomputer) Internal Electronic Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B116049</b>	<b>Airbag ECU (Microcomputer) Internal Electronic Failure</b>
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<b>DTC</b>	<b>B11609E</b>	<b>Airbag ECU (Microcomputer) Stuck On</b>
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<b>DTC</b>	<b>B116149</b>	<b>Airbag ECU (Main ASIC) Internal Electronic Failure</b>
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<b>DTC</b>	<b>B11619E</b>	<b>Airbag ECU (Main ASIC) Stuck On</b>
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<b>DTC</b>	<b>B116311</b>	<b>Airbag ECU (IC and Device) Circuit Short to Ground</b>
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<b>DTC</b>	<b>B116349</b>	<b>Airbag ECU (IC and Device) Internal Electronic Failure</b>
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<b>DTC</b>	<b>B11639E</b>	<b>Airbag ECU (IC and Device) Stuck On</b>
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<b>DTC</b>	<b>B11639F</b>	<b>Airbag ECU (IC and Device) Stuck Off</b>
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<b>DTC</b>	<b>B116449</b>	<b>Airbag ECU (G Sensor 1) Internal Electronic Failure</b>
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<b>DTC</b>	<b>B116483</b>	<b>Airbag ECU (G Sensor 1) Value of Signal Protection Calculation Incorrect</b>
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<b>DTC</b>	<b>B116484</b>	<b>Airbag ECU (G Sensor 1) Signal Below Allowable Range</b>
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<b>DTC</b>	<b>B116485</b>	<b>Airbag ECU (G Sensor 1) Signal Above Allowable Range</b>
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<b>DTC</b>	<b>B116549</b>	<b>Airbag ECU (G Sensor 2) Internal Electronic Failure</b>
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<b>DTC</b>	<b>B116583</b>	<b>Airbag ECU (G Sensor 2) Value of Signal Protection Calculation Incorrect</b>
<b>DTC</b>	<b>B116584</b>	<b>Airbag ECU (G Sensor 2) Signal Below Allowable Range</b>
<b>DTC</b>	<b>B116585</b>	<b>Airbag ECU (G Sensor 2) Signal Above Allowable Range</b>
<b>DTC</b>	<b>B116649</b>	<b>Airbag ECU (G Sensor 3) Internal Electronic Failure</b>
<b>DTC</b>	<b>B116683</b>	<b>Airbag ECU (G Sensor 3) Value of Signal Protection Calculation Incorrect</b>
<b>DTC</b>	<b>B116684</b>	<b>Airbag ECU (G Sensor 3) Signal Below Allowable Range</b>
<b>DTC</b>	<b>B116685</b>	<b>Airbag ECU (G Sensor 3) Signal Above Allowable Range</b>
<b>DTC</b>	<b>B116749</b>	<b>Airbag ECU (Roll Sensor) Internal Electronic Failure</b>
<b>DTC</b>	<b>B116783</b>	<b>Airbag ECU (Roll Sensor) Value of Signal Protection Calculation Incorrect</b>
<b>DTC</b>	<b>B116784</b>	<b>Airbag ECU (Roll Sensor) Signal Below Allowable Range</b>
<b>DTC</b>	<b>B116785</b>	<b>Airbag ECU (Roll Sensor) Signal Above Allowable Range</b>
<b>DTC</b>	<b>B116800</b>	<b>Airbag ECU Failure (Write Inhibit of EDR)</b>
<b>DTC</b>	<b>P05BB00</b>	<b>Restraints Deployed</b>

## **DESCRIPTION**

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B116049	Airbag ECU (Microcomputer) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B11609E	Airbag ECU (Microcomputer) Stuck On	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116149	Airbag ECU (Main ASIC) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B11619E	Airbag ECU (Main ASIC) Stuck On	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116311	Airbag ECU (IC and Device) Circuit Short to Ground	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116349	Airbag ECU (IC and Device) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B11639E	Airbag ECU (IC and Device) Stuck On	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B11639F	Airbag ECU (IC and Device) Stuck Off	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B116449	Airbag ECU (G Sensor 1) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116483	Airbag ECU (G Sensor 1) Value of Signal Protection Calculation Incorrect	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116484	Airbag ECU (G Sensor 1) Signal Below Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116485	Airbag ECU (G Sensor 1) Signal Above Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116549	Airbag ECU (G Sensor 2) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116583	Airbag ECU (G Sensor 2) Value of Signal Protection Calculation Incorrect	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116584	Airbag ECU (G Sensor 2) Signal Below Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116585	Airbag ECU (G Sensor 2) Signal Above Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116649	Airbag ECU (G Sensor 3) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B116683	Airbag ECU (G Sensor 3) Value of Signal Protection Calculation Incorrect	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116684	Airbag ECU (G Sensor 3) Signal Below Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116685	Airbag ECU (G Sensor 3) Signal Above Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116749	Airbag ECU (Roll Sensor) Internal Electronic Failure	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116783	Airbag ECU (Roll Sensor) Value of Signal Protection Calculation Incorrect	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116784	Airbag ECU (Roll Sensor) Signal Below Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116785	Airbag ECU (Roll Sensor) Signal Above Allowable Range	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
B116800	Airbag ECU Failure (Write Inhibit of EDR)	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode
P05BB00	Restraints Deployed	Airbag ECU assembly malfunction	Airbag ECU assembly	Comes on	SRS Airbag	A	Does not apply to test/check mode

## CAUTION / NOTICE / HINT

### NOTICE:

After replacing the airbag ECU assembly, refer to work procedure.

Click here 

### HINT:

If a DTC (except B116049, B11609E, B116149, B11619E, B116311, B116349, B11639E, B11639F, B116449, B116483, B116484, B116485, B116549, B116583, B116584, B116585, B116649, B116683, B116684, B116685, B116749, B116783, B116784, B116785, B116800 or P05BB00) is output at the same time as B116049, B11609E, B116149, B11619E, B116311, B116349, B11639E, B11639F, B116449, B116483, B116484, B116485, B116549, B116583, B116584, B116585, B116649, B116683, B116684, B116685, B116749, B116783, B116784, B116785, B116800 or P05BB00, repair the malfunction from that DTC first.

## PROCEDURE

<b>1.</b>	<b>CHECK DTC</b>
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Pre-procedure1

(a) Turn the ignition switch to ON, and wait for at least 60 seconds.

Procedure1

(b) Check for DTCs.

**Body Electrical > SRS Airbag > Trouble Codes**

RESULT	PROCEED TO
B116049, B11609E, B116149, B11619E, B116311, B116349, B11639E, B11639F, B116449, B116483, B116484, B116485, B116549, B116583, B116584, B116585, B116649, B116683, B116684, B116685, B116749, B116783, B116784, B116785, B116800, P05BB00 and other DTCs are output	A
B116049, B11609E, B116149, B11619E, B116311, B116349, B11639E, B11639F, B116449, B116483, B116484, B116485, B116549, B116583, B116584, B116585, B116649, B116683, B116684, B116685, B116749, B116783, B116784, B116785, B116800 or P05BB00 is output	B

### NOTICE:

If only DTC B116049, B11609E, B116149, B11619E, B116311, B116349, B11639E, B11639F, B116449, B116483, B116484, B116485, B116549, B116583, B116584, B116585, B116649, B116683, B116684, B116685, B116749, B116783, B116784, B116785, B116800 or P05BB00 is output, do not clear the DTCs. Replace the airbag ECU assembly.

### HINT:

If any DTCs other than DTC B116049, B11609E, B116149, B11619E, B116311, B116349, B11639E, B11639F, B116449, B116483, B116484, B116485, B116549, B116583, B116584, B116585, B116649, B116683, B116684, B116685, B116749, B116783, B116784, B116785, B116800 or P05BB00 are also output, troubleshoot those DTCs first.

Post-procedure1

(c) None

**A**  **GO TO DIAGNOSTIC TROUBLE CODE CHART** 

**B ▶ REPLACE AIRBAG ECU ASSEMBLY** INFO

