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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B166A62; Right Side Restraints Sensor 5 / Left Side Restraints Sensor 5 Signal Compare Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B166A62	Right Side Restraints Sensor 5 / Left Side Restraints Sensor 5 Signal Compare Failure
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DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B166A62	Right Side Restraints Sensor 5 / Left Side Restraints Sensor 5 Signal Compare Failure	The difference between the pressure detected by the side airbag pressure sensor LH and the side airbag pressure sensor RH exceeds a certain value a certain number of times.	<ul style="list-style-type: none"> Side airbag pressure sensor LH Side airbag pressure sensor RH Airbag ECU assembly 	Comes on	SRS Airbag	A	Does not apply to test/check mode

CAUTION / NOTICE / HINT

NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

[Click here](#) INFO

HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

[Click here](#) INFO

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

[Click here](#) INFO

PROCEDURE

1.	CHECK DTC
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(a) Check for DTCs.

Body Electrical > SRS Airbag > Trouble Codes

RESULT	PROCEED TO
No DTCs in the table below are output	A
Any of the DTCs in the table below are output	B

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
Side collision sensor circuit (bus 1) malfunction	Airbag system	B009B64	Left Side Restraints Sensor 5 Signal Plausibility Failure
		B009B83	Left Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect
		B009B84	Left Side Restraints Sensor 5 Signal Below Allowable Range
		B009B85	Left Side Restraints Sensor 5 Signal Above Allowable Range
		B009B87	Left Side Restraints Sensor 5 Missing Message
		B009B96	Left Side Restraints Sensor 5 Component Internal Failure
		B009E64	Right Side Restraints Sensor 5 Signal Plausibility Failure
		B009E83	Right Side Restraints Sensor 5 Value of Signal Protection Calculation Incorrect
		B009E84	Right Side Restraints Sensor 5 Signal Below Allowable Range
		B009E85	Right Side Restraints Sensor 5 Signal Above Allowable Range
		B009E87	Right Side Restraints Sensor 5 Missing Message
		B009E96	Right Side Restraints Sensor 5 Component Internal Failure

HINT:

If DTCs in the table above are output, troubleshoot those DTCs first.

B  **GO TO DIAGNOSTIC TROUBLE CODE CHART** 

A


2.	CLEAR DTC
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Pre-procedure1

(a) Turn the ignition switch off.

- (b) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.
- (c) Replace the side airbag pressure sensor RH with a new one or known good one.

HINT:

Click here 

HINT:

- When using a new part, since the side airbag pressure sensor LH and RH have the same part number, prepare either one.
- Use the prepared side airbag pressure sensor to check the side airbag pressure sensor LH as well.

- (d) Connect the cable to the negative (-) auxiliary battery terminal, and wait for at least 2 seconds.
- (e) Turn the ignition switch to ON, and wait for at least 60 seconds.

Procedure1

- (f) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

- (g) Turn the ignition switch off.

NEXT

3.	CHECK SIDE AIRBAG PRESSURE SENSOR RH
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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
B166A62 is output	A
B166A62 is not output	B

HINT:

Codes other than DTC B166A62 may be output at this time, but they are not related to this check.

Post-procedure1

- (c) Turn the ignition switch off.
- (d) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.

(e) Return the side airbag pressure sensor RH that was installed for testing to its original location.

B ▶ REPLACE SIDE AIRBAG PRESSURE SENSOR RH INFO

A



4. CLEAR DTC

Pre-procedure1

(a) Replace the side airbag pressure sensor LH with a new one or known good one.

HINT:

Click here INFO

HINT:

- When using a new part, since the side airbag pressure sensor LH and RH have the same part number, prepare either one.
- Use the prepared side airbag pressure sensor to check the side airbag pressure sensor RH as well.

(b) Connect the cable to the negative (-) auxiliary battery terminal, and wait for at least 2 seconds.

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

Procedure1

(d) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(e) Turn the ignition switch off.

NEXT



5. CHECK SIDE AIRBAG PRESSURE SENSOR LH

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
B166A62 is output	A
B166A62 is not output	B

HINT:

Codes other than DTC B166A62 may be output at this time, but they are not related to this check.

Post-procedure1

- (c) Turn the ignition switch off.
- (d) Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.
- (e) Return the side airbag pressure sensor LH that was installed for testing to its original location.

A ▶ REPLACE AIRBAG ECU ASSEMBLY [INFO](#)

B ▶ REPLACE SIDE AIRBAG PRESSURE SENSOR LH [INFO](#)

