

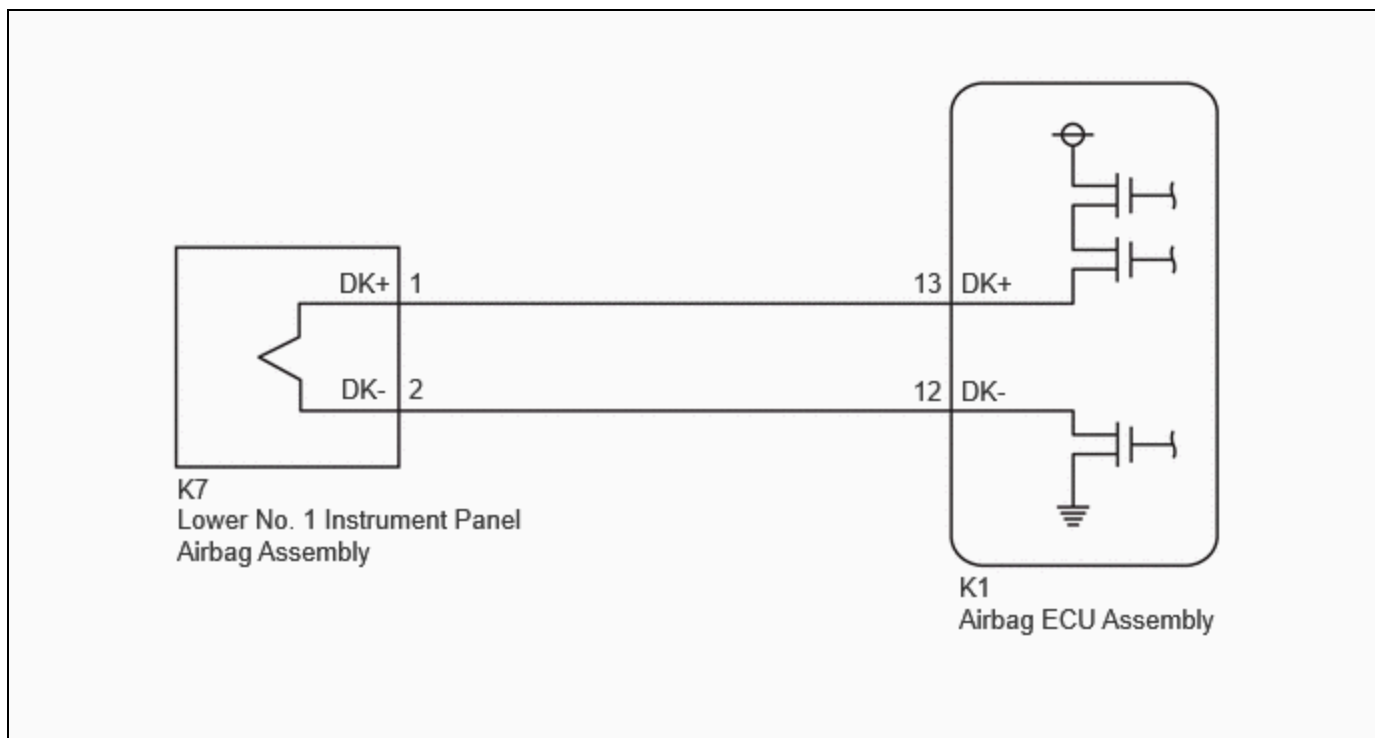
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000028UV2
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B000411; Driver Knee Bolster Deployment Control Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B000411	Driver Knee Bolster Deployment Control Circuit Short to Ground
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DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B000411	Driver Knee Bolster Deployment Control Circuit Short to Ground	<ul style="list-style-type: none"> The airbag ECU assembly detects a short to ground in the driver side knee airbag squib circuit for 0.5 seconds. Lower No. 1 instrument panel airbag assembly malfunction Airbag ECU assembly malfunction 	<ul style="list-style-type: none"> Harness or connector Lower No. 1 instrument panel airbag assembly Airbag ECU assembly 	Comes on	SRS Airbag	A	Applies to check mode

WIRING DIAGRAM



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**

HINT:

- To perform the simulation method, enter check mode (signal check) with the GTS.

[Click here](#) **INFO**

- Perform the simulation method while checking the Data List.

[Click here](#) **INFO**

PROCEDURE

1.	CLEAR DTC
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Pre-procedure1

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

Procedure1

(b) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(c) Turn the ignition switch off.

NEXT



2.	CHECK DTC
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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
B000411 is output	A
B000411 is not output	B

Post-procedure1

(c) None

B **USE SIMULATION METHOD TO CHECK**

A



3.	CHECK CONNECTION OF CONNECTORS
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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.

Procedure1

(c) Check that the connectors are properly connected to the lower No. 1 instrument panel airbag assembly and airbag ECU assembly.

OK:

The connectors are properly connected.

Post-procedure1

(d) None

NG  **CONNECT CONNECTORS PROPERLY**

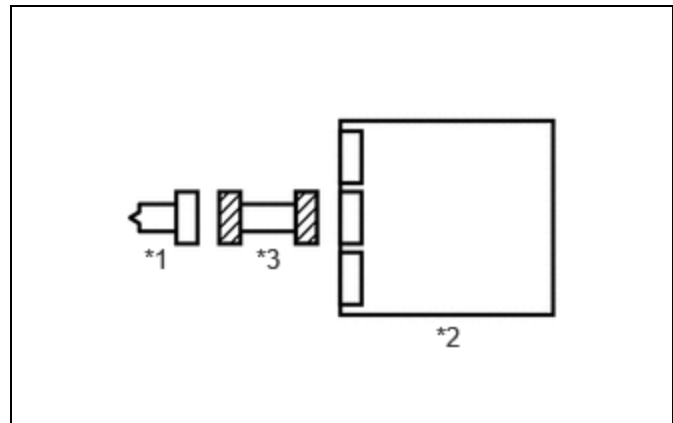
OK



4.	CHECK CONNECTORS
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Pre-procedure1

(a) Disconnect the airbag ECU assembly connector.



*1	Lower No. 1 Instrument Panel Airbag Assembly
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Disconnect the lower No. 1 instrument panel airbag assembly connector.

Procedure1

(c) Check that the terminals of the connectors are not deformed or damaged.

OK:

The terminals are not deformed or damaged.

(d) Check that the connectors are not loose, deformed or damaged.

OK:

The connector locking button is not disengaged, and the claw of the lock is not deformed or damaged.

Post-procedure1

(e) None

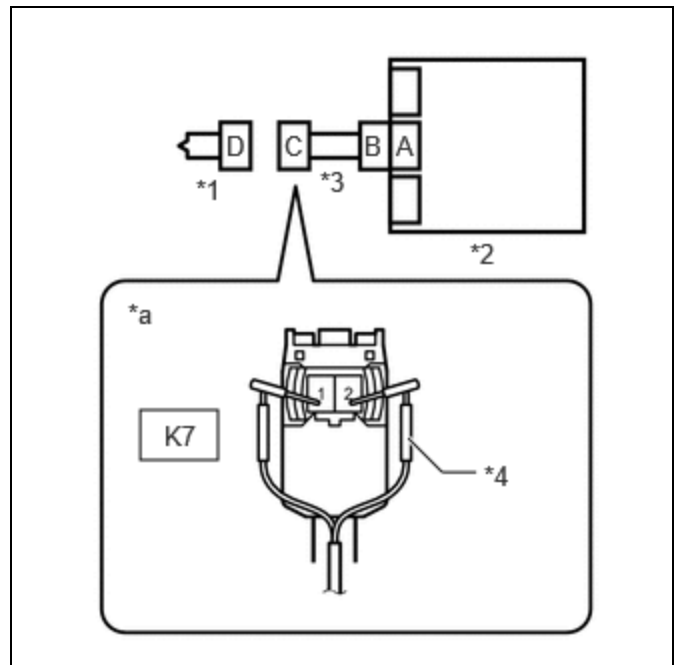
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



5.	CLEAR DTC
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Pre-procedure1



(a) Connect the airbag ECU assembly connector.

*1	Lower No. 1 Instrument Panel Airbag Assembly
*2	Airbag ECU Assembly
*3	Wire Harness
*4	SST
*a	Front view of wire harness connector (to Lower No. 1 Instrument Panel Airbag Assembly)

(b) Connect SST (resistance: 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the lower No. 1 instrument panel airbag assembly for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert SST into the terminals of the connector when connecting SST.
- Insert SST straight into the terminals of the connector.

SST: 09843-18061

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

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

Procedure1

(e) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(f) Turn the ignition switch off.

NEXT

6.	CHECK LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY
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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
B000411 is not output	A
B000411 is output	B

HINT:

Codes other than DTC B000411 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) Disconnect SST from connector C.

A **REPLACE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY**

B



7. CHECK HARNESS AND CONNECTOR

Pre-procedure1

(a) Disconnect the airbag ECU assembly connector.

Procedure1

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



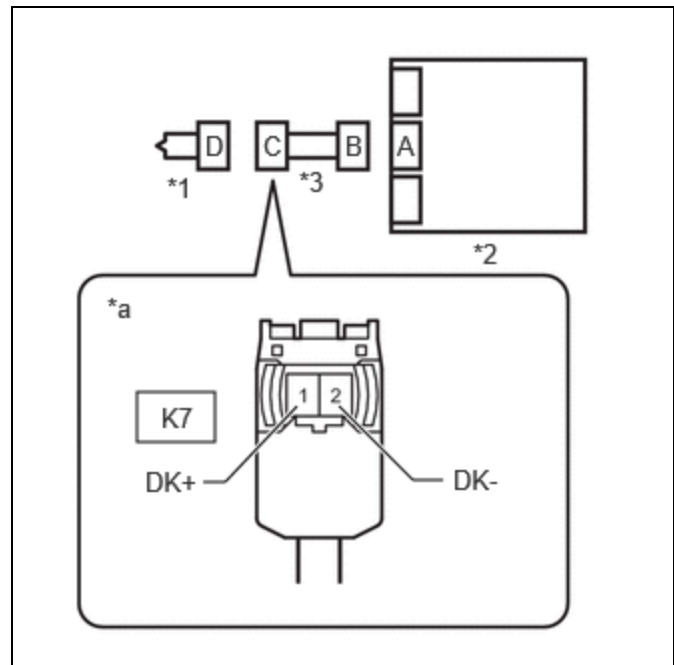
[Click Location & Routing\(K7\).](#)

[Click Connector\(K7\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K7-1 (DK+) - Body ground	Always	1 MΩ or higher	MΩ
K7-2 (DK-) - Body ground	Always	1 MΩ or higher	MΩ

Result:

PROCEED TO
OK
NG



*1	Lower No. 1 Instrument Panel Airbag Assembly
*2	Airbag ECU Assembly
*3	Wire Harness
*a	Front view of wire harness connector (to Lower No. 1 Instrument Panel Airbag Assembly)

Post-procedure1

(c) None

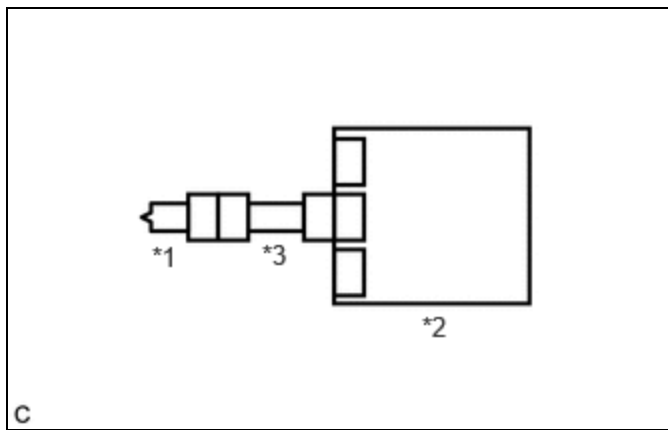
NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



8.	CLEAR DTC
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Pre-procedure1



C

*1	Lower No. 1 Instrument Panel Airbag Assembly
*2	Airbag ECU Assembly
*3	Wire Harness

(a) Connect the airbag ECU assembly connector.

(b) Connect the lower No. 1 instrument panel airbag assembly connector.

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

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

Procedure1

(e) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(f) Turn the ignition switch off.

NEXT



9.	CHECK DTC
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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
B000411 is not output	A
B000411 is output	B

HINT:

Codes other than DTC B000411 may be output at this time, but they are not related to this check.

Post-procedure1

(c) None

A ► **USE SIMULATION METHOD TO CHECK**

B ► **REPLACE AIRBAG ECU ASSEMBLY** **INFO**

