

DTC	B1628/29	RSCA off Switch Indicator Malfunction
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CIRCUIT DESCRIPTION

The RSCA off switch is a mechanism that operates both right and left side of the curtain shield airbag assembly and the seat belt pretensioner when the airbag sensor assembly detects a roll-over.

The RSCA off switch indicator light is installed in the combination meter.

As operating the RSCA off switch, the indicator light comes on to inform the driver that the roll-over detection system is not working.

The initial setting of the roll-over detection system is on. It automatically operates every time the ignition switch is turned on.

DTC No.	DTC Detecting Condition	Trouble Area
B1628/29	• RSCA off indicator circuit malfunction	• RSCA off switch • Airbag sensor assembly • Dash wire • Instrument panel wire

HINT:

DTC B1628/29 is indicated only for the vehicle equipped with the side airbag.

The diagram illustrates the electrical system for the Airbag Sensor Assembly. Key components and their connections include:

- Battery:** Connected to the main power line.
- Combination Meter:** Includes a resistor and a switch labeled "RSCA Off". It is connected to terminal 19 (C13) and terminal 10 (C12).
- Cowl Side J/B LH:** Contains terminals 10 (2A) and 41 (2E). It is connected to terminal 10 (C12) and terminal 7 (AM2).
- Engine Room J/B:** Contains terminals 9 (1B), 1 (1C), and 41 (2E). It is connected to terminal 10 (C12) and terminal 7 (AM2).
- Ignition SW (I18):** Includes a switch and a terminal labeled "IG2". It is connected to terminal 7 (AM2) and terminal 6 (A).
- J4 J/C:** A junction box connected to terminal 6 (A) and terminal 21 (C26).
- R40 RSCA Off Switch:** A switch connected to terminal 3 (IF1) and terminal 4 (W-B).
- J12 J/C:** A junction box connected to terminal 3 (IF1) and terminal 11 (IF2).
- Cowl Side J/B LH (IF):** Contains terminal 43 (2Q) and is connected to terminal 3 (IF1).
- Airbag Sensor Assembly:** Includes terminals 25 (C26) and 21 (C26), which are connected to the rest of the system.

INSPECTION PROCEDURE

The RSCA off indicator light remains on when the RSCA off switch is not operating (Remains ON).

1	Does indicator light turn off?
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PREPARATION:

Disconnect the combination meter connector.

CHECK:

- (a) Turn the ignition switch to ON.
- (b) Check operation of RSCA off indicator light.

OK:

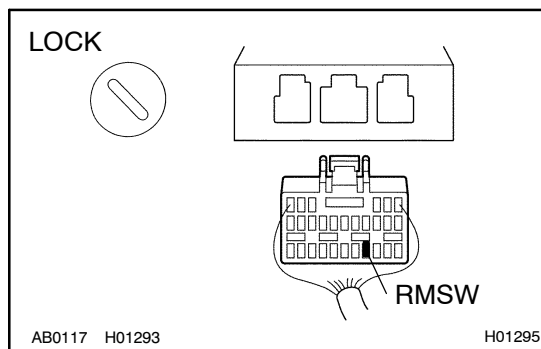
The indicator light does not light up.

NO

Check combination meter (See page [BE-58](#)).

YES

2	Check wire harness.
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**PREPARATION:**

- (a) Turn the ignition switch to LOCK.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- (c) Disconnect the airbag sensor assembly connector.

CHECK:

Measure the resistance between the body ground and RMSW on the airbag sensor assembly side between the combination meter and airbag sensor assembly.

OK:

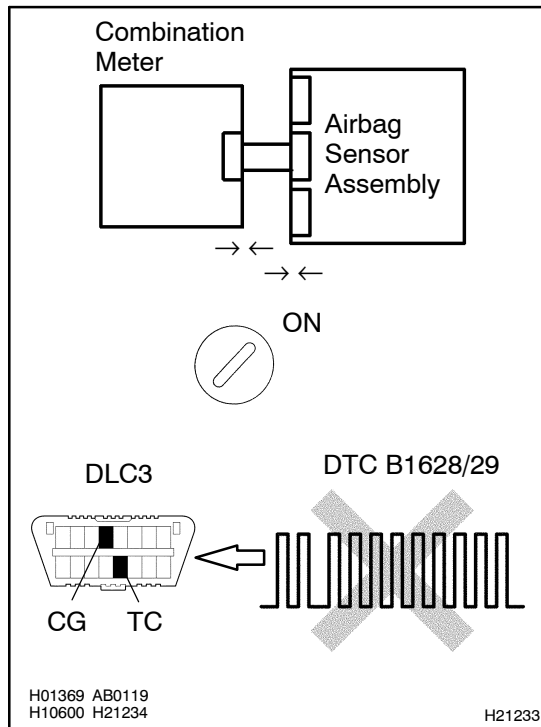
Resistance: 1 MΩ or Higher

NG

Replace wire harness.

OK

3 Check airbag sensor assembly.



PREPARATION:

- Connect the airbag sensor assembly connector.
- Connect the combination meter connector.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-699](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-699](#)).

OK:

DTC B2628/29 is not output.

HINT:

Codes other than code B1628/29 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly.

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

The RSCA off indicator light does not come on when the RSCA off switch is operating (Remains OFF).

1	Check voltage of combination meter.
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PREPARATION:

Disconnect the combination meter connector.

CHECK:

Measure the voltage of the combination meter.

OK:

Voltage: 10 – 14 V

NG

Check combination meter (See page [BE-58](#)).

OK

2	Check wire harness.
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PREPARATION:

Disconnect the combination meter connector.

CHECK:

Measure the voltage between the body ground and RMSW on the combination meter side between the air-bag sensor assembly and the combination meter.

OK:

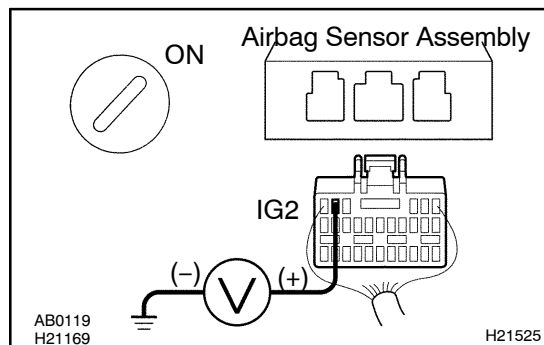
Voltage: Below 1 V

NG

Replace wire harness.

OK

3 Check wire harness.



PREPARATION:

- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Connect the combination meter connector.
- Turn the ignition switch to LOCK, and wait at least for 90 seconds.
- Disconnect the airbag sensor assembly connector.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON.
- Measure the voltage between the body ground and IG2 on the airbag sensor assembly side.

OK:

Voltage: 10 – 14 V

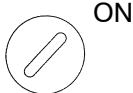
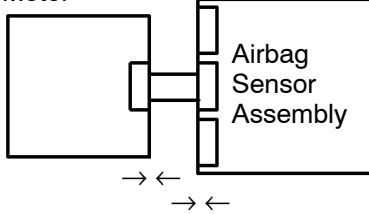
NG

Replace wire harness.

OK

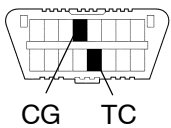
4 Check airbag sensor assembly.

Combination
Meter



DLC3

DTC B1628/29



H01369 AB0119
H10600 H21234

H21233

PREPARATION:

Connect the airbag sensor assembly connector.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-699](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-699](#)).

OK:

DTC B1628/29 is not output.

HINT:

Codes other than code B1628/29 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly.

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.