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Model Year Start: 2008	Model: GX470	Prod Date Range: [07/2007 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1628/29; Roll Over Cut Off Indicator Malfunction; 2008 MY GX470 [07/2007 -]		

DTC	B1628/29	Roll Over Cut Off Indicator Malfunction
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DESCRIPTION

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

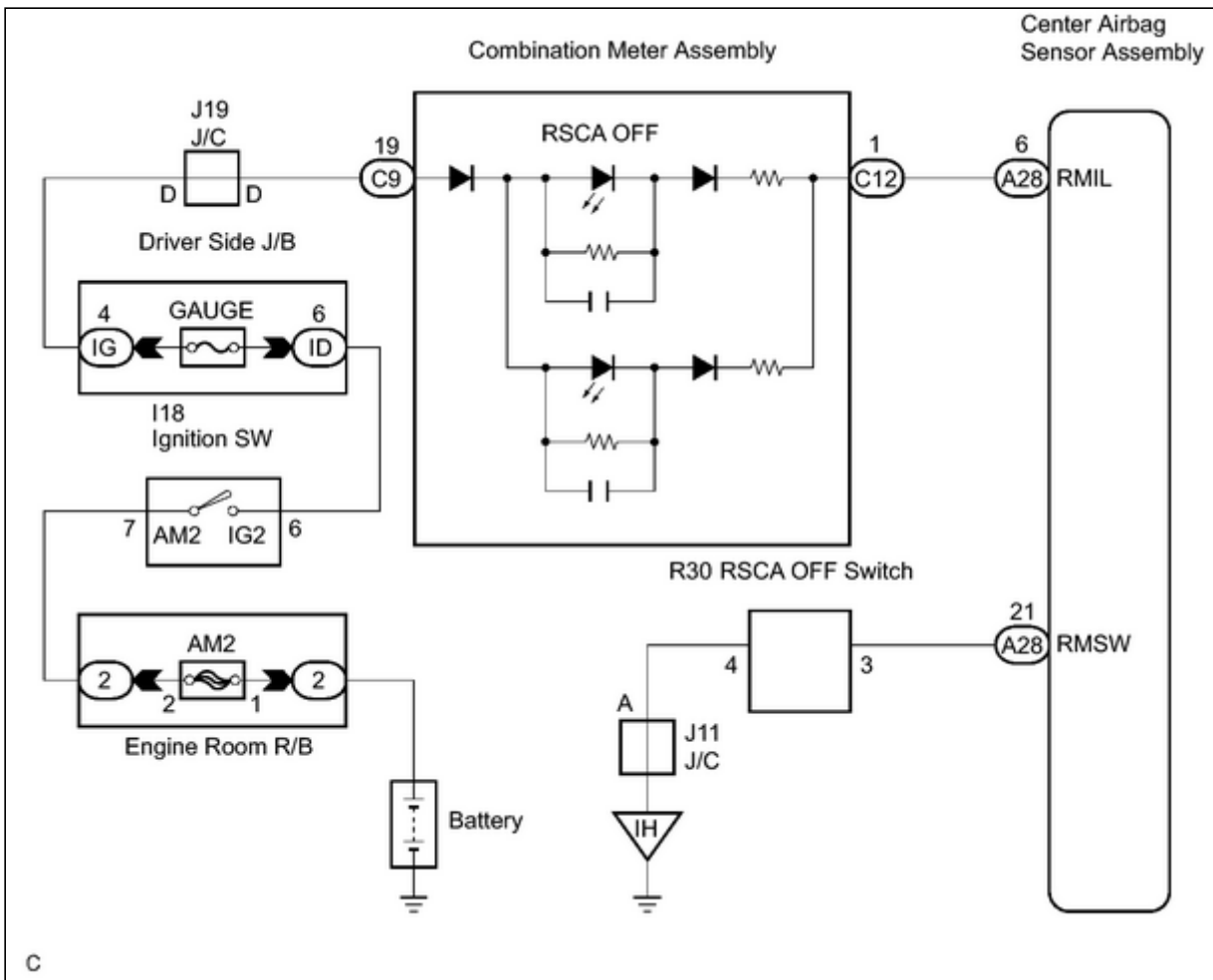
The RSCA OFF indicator is installed in the combination meter assembly.

If the RSCA OFF switch is operated, the indicator 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	<ul style="list-style-type: none"> The center airbag sensor assembly receives an open signal or short to ground in the RSCA OFF indicator circuit. RSCA OFF indicator malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Combination meter assembly (RSCA OFF indicator) Center airbag sensor assembly Instrument panel wire

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1. CHECK RSCA OFF INDICATOR CONDITION

- Turn the ignition switch to the ON position, and push the RSCA OFF switch for 2 seconds.
- Check the RSCA OFF indicator condition according to the table below.

PROCEED TO	CONDITION
A	RSCA OFF indicator does not come on (remains off) when the RSCA OFF switch is operated.
B	RSCA OFF indicator remains on when the RSCA OFF switch is not operated.

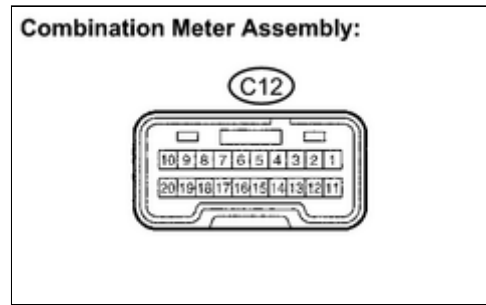
B ▶ GO TO STEP 6

A



2. CHECK COMBINATION METER ASSEMBLY (SOURCE VOLTAGE)

(a) Turn the ignition switch to the LOCK position.



(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

(c) Remove the combination meter assembly **INFO**.

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

(e) Turn the ignition switch to the ON position.

(f) Measure the voltage according to the value(s) in the table below.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C12-1 - Body ground	Ignition switch ON	10 to 14 V

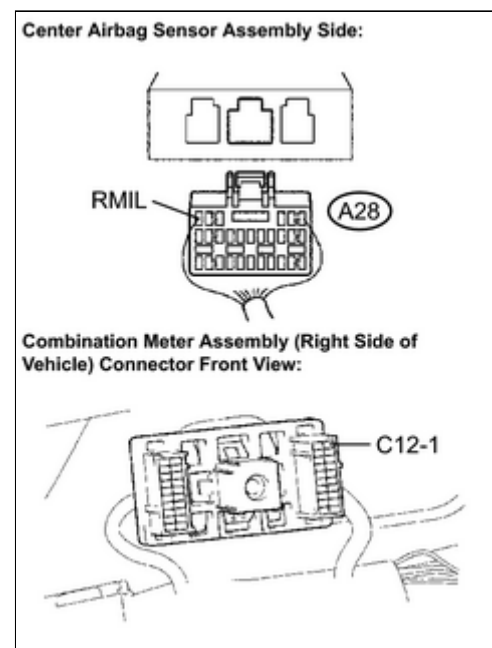
NG ► GO TO METER / GAUGE SYSTEM

OK



3. CHECK INSTRUMENT PANEL WIRE (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER ASSEMBLY)

(a) Turn the ignition switch to the LOCK position.



(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

- (c) Disconnect the connector from the center airbag sensor assembly.
- (d) Measure the resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A28-6 (RMIL) - C12-10	Always	Below 1 Ω

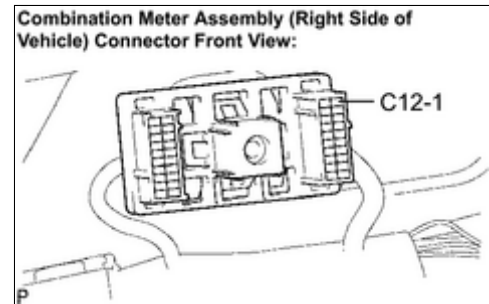
NG  **REPLACE INSTRUMENT PANEL WIRE**

OK



4. CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

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



- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C12-1 - Body ground	Ignition switch ON	Below 1 V

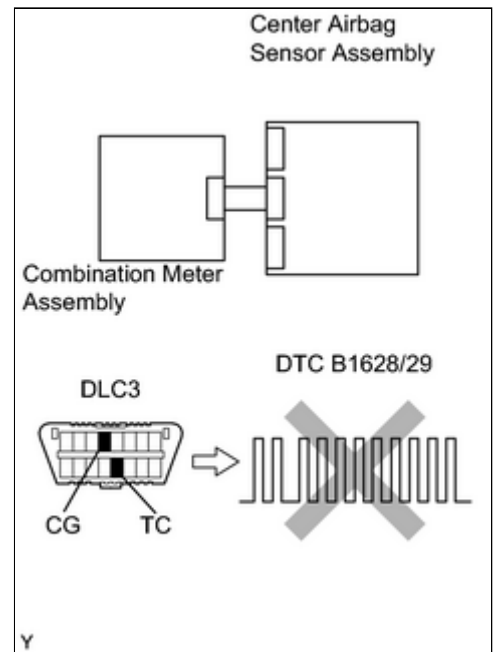
NG  **REPLACE INSTRUMENT PANEL WIRE**

OK



5. CHECK CENTER AIRBAG SENSOR ASSEMBLY

- (a) Turn the ignition switch to the LOCK position.



- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connector to the center airbag sensor assembly.
- (d) Install the combination meter assembly **INFO** .
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear the DTCs stored in memory **INFO** .
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check the DTCs **INFO** .

OK:

DTC B1628/29 is not output.

HINT:

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

If the DTC B1628/29 is output after the center airbag sensor assembly is replaced, there may be trouble in the combination meter assembly (RSCA OFF indicator).

If RSCA OFF indicator remains off when DTC B1628/29 is output, there may be trouble in the combination meter assembly (RSCA OFF indicator).

NG ► REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK ► USE SIMULATION METHOD TO CHECK

6. CHECK RSCA OFF INDICATOR OPERATION

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

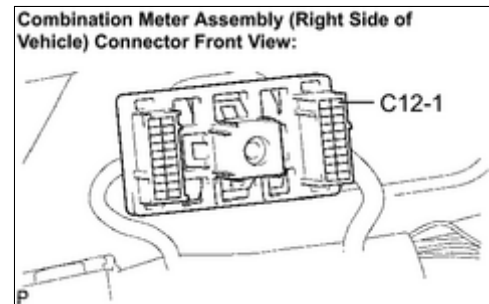
- (c) Disconnect the connector from the center airbag sensor assembly.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the ignition switch to the ON position.
- (f) Check the RSCA OFF indicator condition.
 - OK:
 - The RSCA OFF indicator does not come on.

OK ▶ REPLACE CENTER AIRBAG SENSOR ASSEMBLY

NG
▼

7. CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)

- (a) Turn the ignition switch to the LOCK position.



- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Remove the combination meter assembly **INFO**.
- (d) Measure the resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C12-1 - Body ground	Always	1 MΩ or higher

NG ▶ REPLACE INSTRUMENT PANEL WIRE

OK ▶ REPLACE COMBINATION METER ASSEMBLY