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Model Year Start: 2008	Model: GX470	Prod Date Range: [07/2007 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B0126/27,B0127/27; Seat Belt Buckle Switch LH Circuit Malfunction; 2008 MY GX470 [07/2007 -]		

DTC	B0126/27	Seat Belt Buckle Switch LH Circuit Malfunction
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DTC	B0127/27	Seat Belt Buckle Switch LH Malfunction
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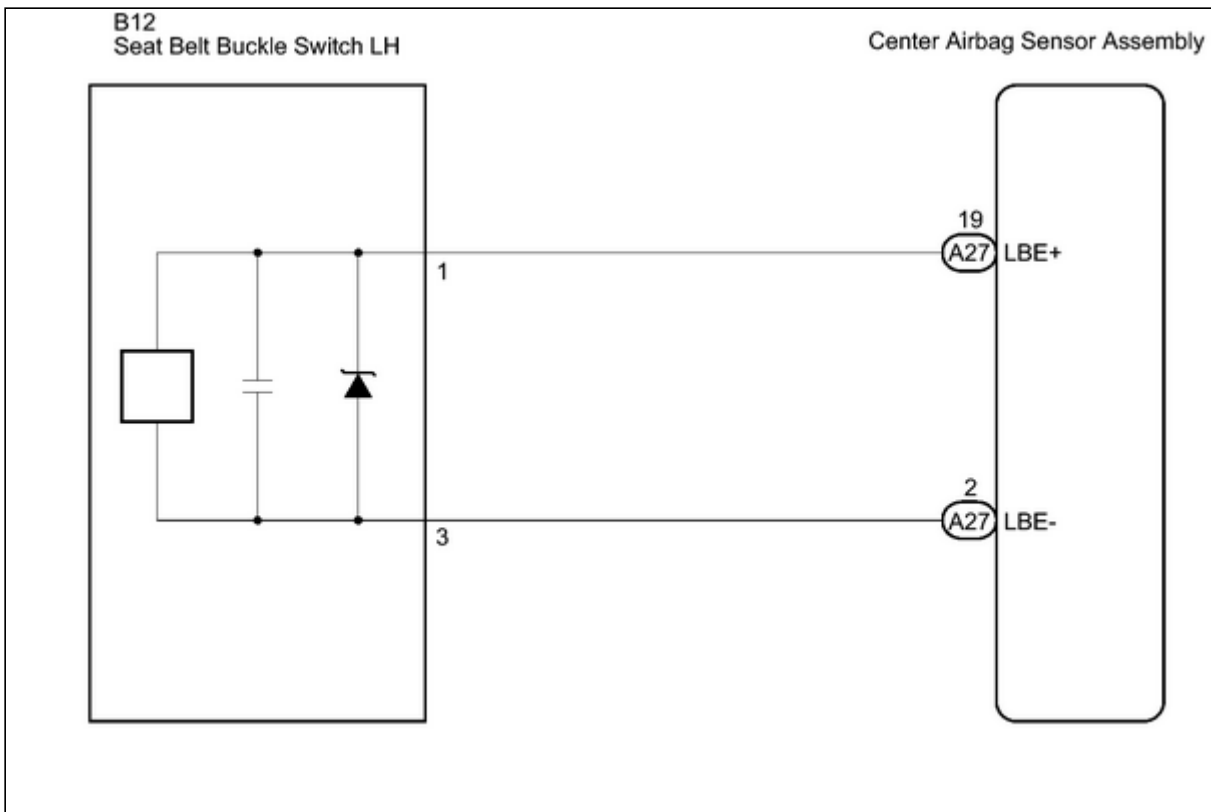
DESCRIPTION

The seat belt buckle switch LH circuit consists of the center airbag sensor assembly and the front seat inner belt assembly LH (seat belt buckle switch LH).

DTC B0126/27 or B0127/27 is recorded when a malfunction is detected in the seat belt buckle switch LH circuit.

DTC NO.	DTC DETECTING CONDITION	TROUBLE AREA
B0126/27 B0127/27	<ul style="list-style-type: none"> The center airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the driver side seat belt buckle switch circuit for 2 seconds. Front seat inner belt assembly LH malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Front seat inner belt assembly LH (Seat belt buckle switch LH) Center airbag sensor assembly Floor wire No. 2

WIRING DIAGRAM

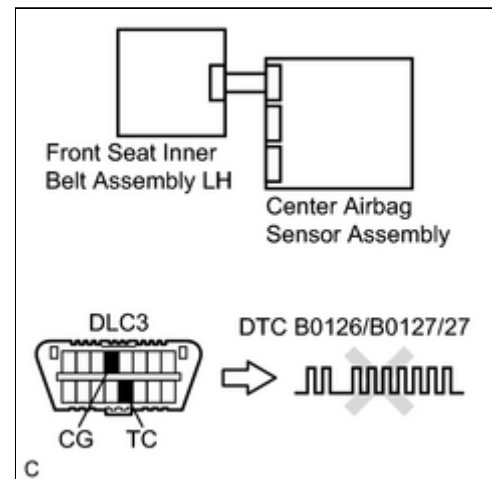


INSPECTION PROCEDURE

PROCEDURE

1. CHECK DTC

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



(b) Clear the DTCs stored in memory **INFO** .

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

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

(e) Check the DTCs **INFO** .

OK:

DTC B0126, B0127 or 27 is not output.

HINT:

Codes other than code B0126, B0127 or 27 may be output at this time, but they are not related to this check.

NG ► **GO TO STEP 2**

OK ► **USE SIMULATION METHOD TO CHECK**

2. CHECK CONNECTION OF CONNECTORS

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the center airbag sensor assembly and the front seat inner belt assembly LH.

OK:

The connectors are connected.

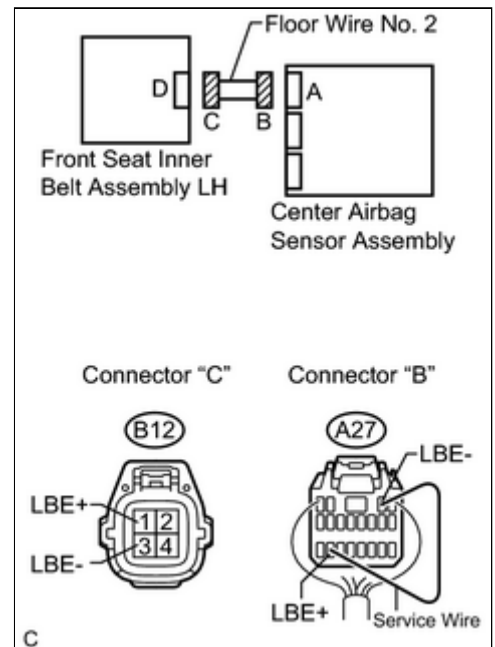
NG ► **CONNECT CONNECTORS, THEN GO TO STEP 1**

OK



3. CHECK FLOOR WIRE NO. 2 (OPEN)

- Disconnect the connectors from the center airbag sensor assembly and the front seat inner belt assembly LH.



- Using a service wire, connect A27-19 (LBE+) and A27-2 (LBE-) of connector "B".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

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

Standard resistance:

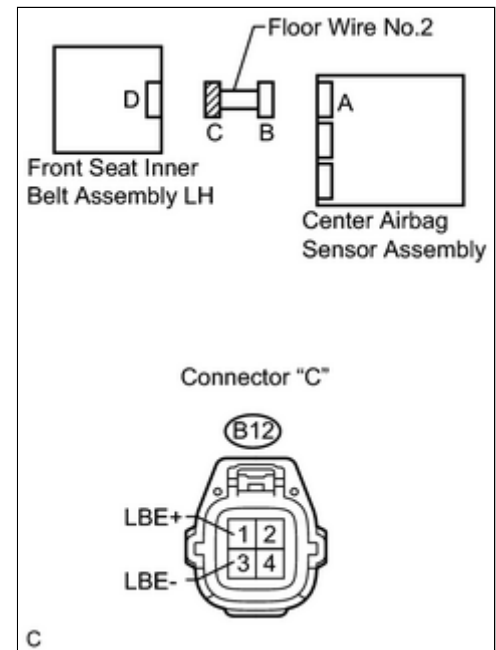
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
B12-1 (LBE+) - B12-3 (LBE-)	Always	Below 1 Ω

NG ▶ REPLACE FLOOR WIRE NO. 2

OK



4. CHECK FLOOR WIRE NO. 2 (SHORT TO B+)



(a) Disconnect the service wire from connector "B".

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

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

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

Standard voltage:

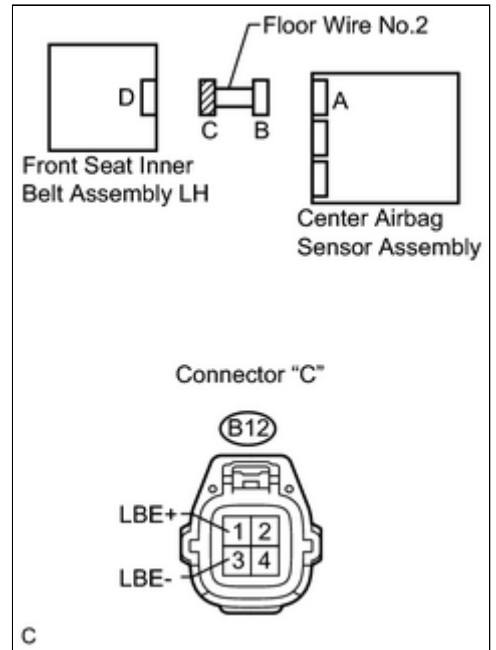
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
B12-1 (LBE+) - Body ground	Ignition switch ON	Below 1 V
B12-3 (LBE-) - Body ground	Ignition switch ON	Below 1 V

NG ▶ REPLACE FLOOR WIRE NO. 2

OK



5. CHECK FLOOR WIRE NO. 2 (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) Measure the resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
B12-1 (LBE+) - Body ground	Always	1 MΩ or higher
B12-3 (LBE-) - Body ground	Always	1 MΩ or higher

NG **REPLACE FLOOR WIRE NO. 2**

OK

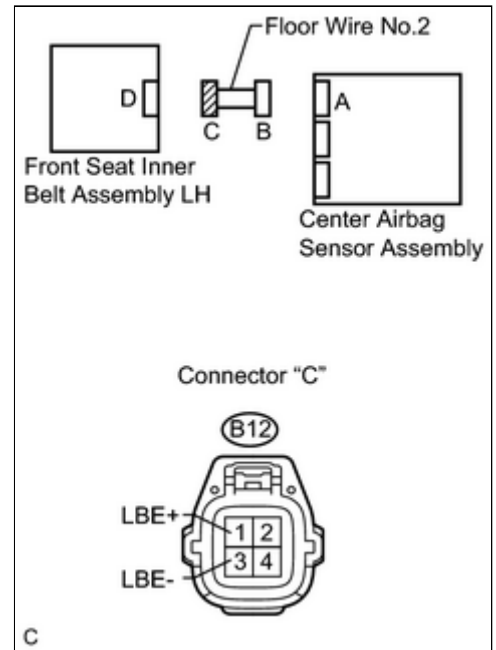


6. CHECK FLOOR WIRE NO. 2 (SHORT)

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

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
B12-1 (LBE+) - B12-3 (LBE-)	Always	1 MΩ or Higher

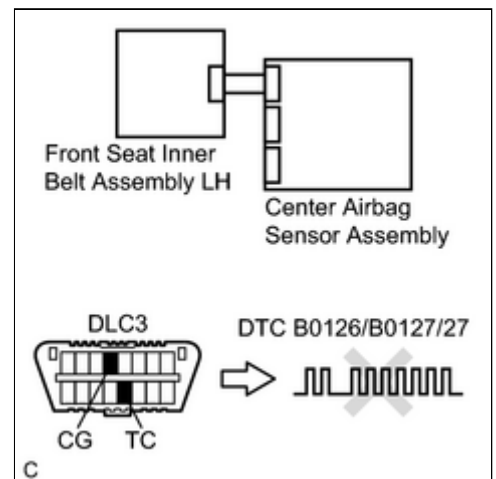


NG ▶ REPLACE FLOOR WIRE NO. 2

OK
▼

7. CHECK FRONT SEAT INNER BELT ASSEMBLY LH

(a) Connect the connectors to the front seat inner belt assembly LH and the center airbag sensor assembly.



- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory **INFO** .
- (e) Turn the ignition switch to the LOCK position.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Check the DTCs **INFO** .

OK:

DTC B0126, B0127 or 27 is not output.

HINT:

Codes other than code B0126, B0127 or 27 may be output at this time, but they are not related to this check.

NG ► **GO TO STEP 8**

OK ► **USE SIMULATION METHOD TO CHECK**

8. REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

- (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) Replace the front seat inner belt assembly LH **INFO** .

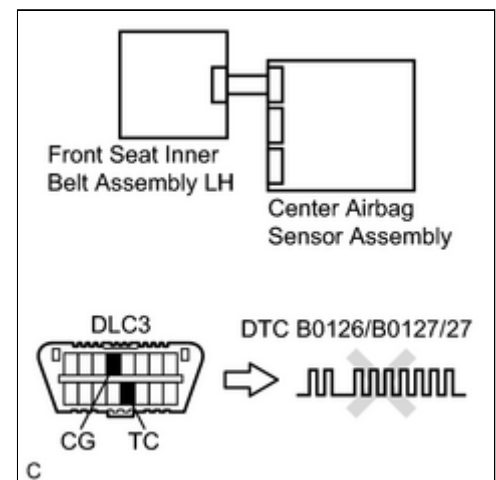
HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

9. CHECK CENTER AIRBAG SENSOR ASSEMBLY

- (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, and wait for at least 60 seconds.
- (c) Clear the DTCs stored in memory **INFO** .
- (d) Turn the ignition switch to the LOCK position.
- (e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (f) Check the DTCs **INFO** .

OK:

DTC B0126/27 is output.

HINT:

Codes other than code B0126/27 may be output at this time, but they are not related to this check.

NG ▶ REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK ▶ END

