

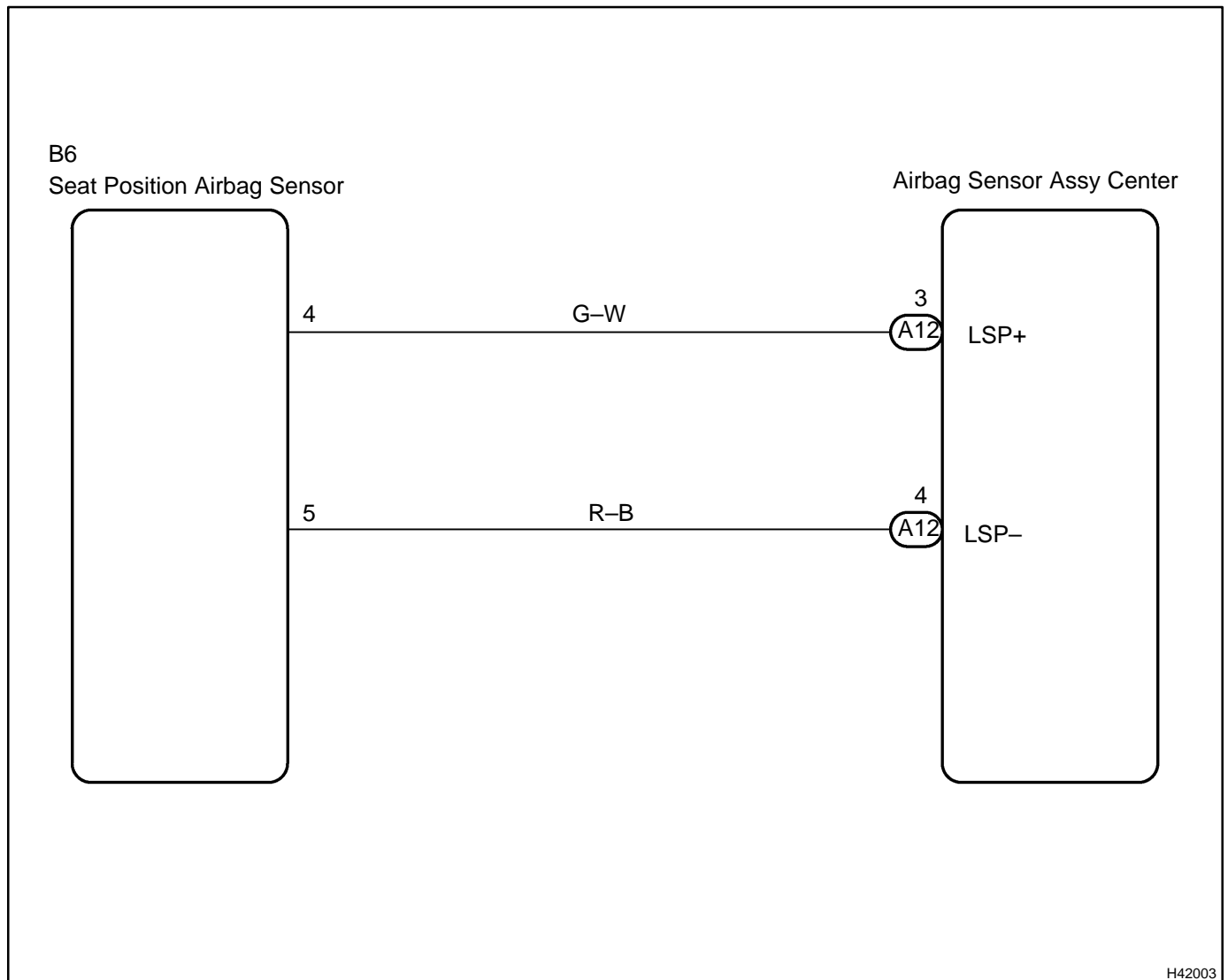
<b>DTC</b>	<b>B1153/25</b>	<b>SEAT POSITION AIRBAG SENSOR MALFUNCTION</b>
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### CIRCUIT DESCRIPTION

The seat position sensor circuit consists of the airbag sensor assy center and seat position sensor. DTC B1153/25 is recorded when a malfunction is detected in the seat position sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	<ul style="list-style-type: none"> <li>• Short circuit between LSP+ wire harness and LSP- wire harness (to B+)</li> <li>• Short circuit between LSP+ wire harness and LSP- wire harness (to ground)</li> <li>• Open circuit in LSP+ wire harness or LSP- wire harness</li> <li>• Seat position airbag sensor malfunction</li> <li>• Airbag sensor assy center malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Seat position airbag sensor</li> <li>• Airbag sensor assy center</li> <li>• Wire harness (Seat position airbag sensor - Front seat inner belt assy)</li> <li>• Instrument panel wire No.3</li> </ul>

### WIRING DIAGRAM

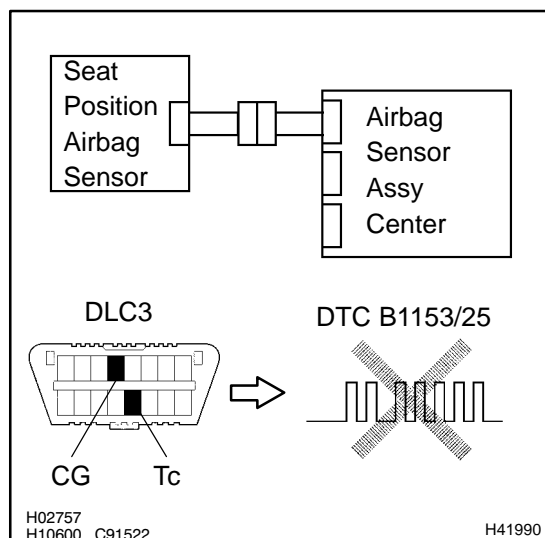


H42003

## INSPECTION PROCEDURE

### 1 CHECK SEAT POSITION AIR BAG SENSOR

SST 09843-18040



- Turn the ignition switch to ON, and wait at least for 20 seconds.
- Clear the DTC stored in memory (See page 05-424).
- Turn the ignition switch to LOCK, and wait at least for 20 seconds.
- Turn the ignition switch to ON, and wait at least for 20 seconds.
- Check the DTC (See page 05-424).

**OK:****DTC B1153/25 is not output.****HINT:**

Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

**OK****USE SIMULATION METHOD TO CHECK****NG**

### 2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

- Turn the ignition switch to LOCK.
- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Check that the connector is properly connected to the airbag sensor assy center.

**NG****CONNECT CONNECTORS****OK**

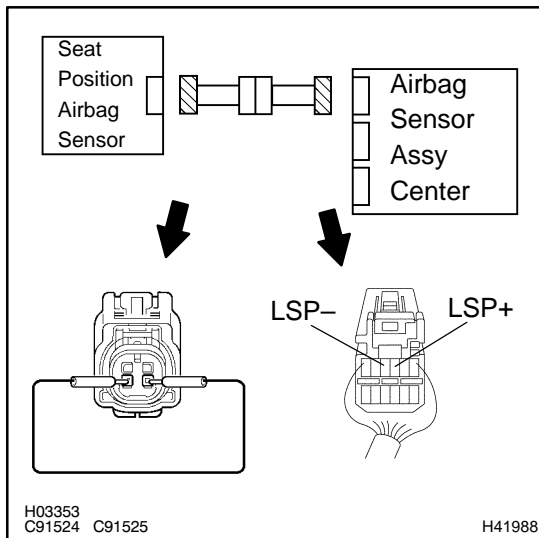
### 3 CHECK SEAT POSITION AIRBAG SENSOR CONNECTOR

- Check that the connector is properly connected to the seat position airbag sensor.

**NG****CONNECT CONNECTORS****OK**

#### 4 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (OPEN)(AIRBAG SENSOR ASSY CENTER - SEAT POSITION AIRBAG SENSOR)

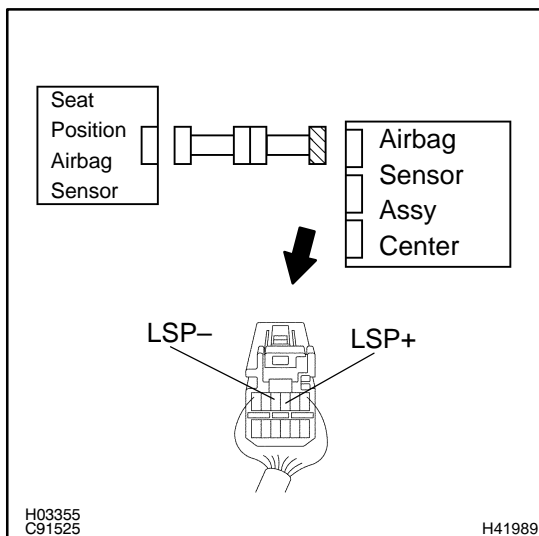
SST 09843-18040



- Disconnect the connectors between the airbag sensor assy center and the seat position airbag sensor.
- Using a service wire, connect LSP+ and LSP- of the connector (on the seat position airbag sensor side) between the airbag sensor assy center and the seat position airbag sensor.
- For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the resistance between LSP+ and LSP-.

**OK:****Resistance: Below 1  $\Omega$** **NG****Go to step 10****OK**

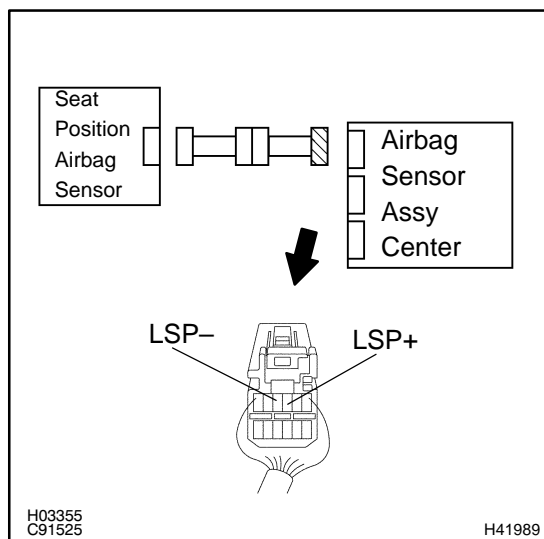
#### 5 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (TO GROUND)(AIRBAG SENSOR ASSY CENTER - SEAT POSITION AIRBAG SENSOR)



- Release the service wire of the connector (on the seat position airbag sensor side) between the seat position airbag sensor and the airbag sensor assy center.
- For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the resistance between body ground and each of LSP+ and LSP-.

**OK:****Resistance: 1 M $\Omega$  or Higher****NG****Go to step 11****OK**

## 6 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT(AIRBAG SENSOR ASSY CENTER - SEAT POSITION AIRBAG SENSOR)



- (a) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the resistance between LSP+ and LSP-.

**OK:**

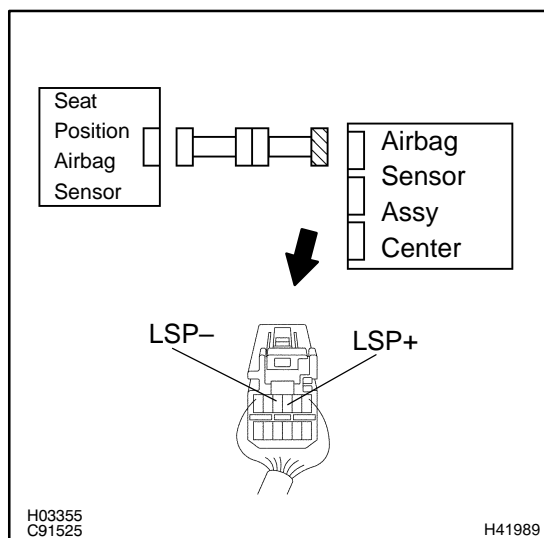
**Resistance: 1 MΩ or Higher**

**NG**

**Go to step 12**

**OK**

## 7 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER - SEAT POSITION AIRBAG SENSOR)



- (a) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.  
 (b) Turn the ignition switch to ON.  
 (c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the voltage between the body ground and each of LSP+ and LSP-.

**OK:**

**Voltage: Below 1 V**

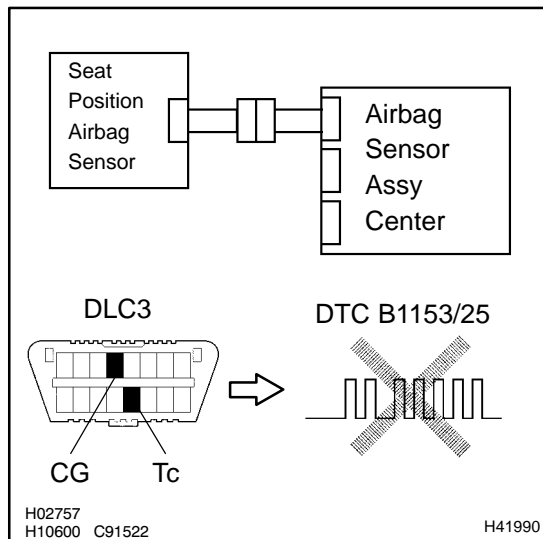
**NG**

**Go to step 13**

**OK**

## 8 CHECK SEAT POSITION AIR BAG SENSOR

SST 09843-18040



- (a) Turn the ignition switch to LOCK.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- (c) Connect the connectors of the seat position airbag sensor and the airbag sensor assy center.
- (d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
- (e) Turn the ignition switch to ON, and wait at least for 20 seconds.
- (f) Clear the DTC stored in memory (See page 05-424).
- (g) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
- (h) Turn the ignition switch to ON, and wait at least for 20 seconds.
- (i) Check the DTC (See page 05-424).

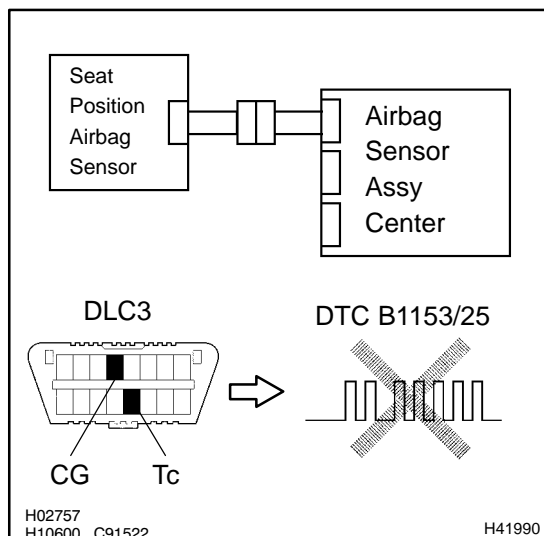
**OK:****DTC D1153/25 is not output.****HINT:**

Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

**NG****REPLACE SEAT POSITION AIR BAG SENSOR****OK****USE SIMULATION METHOD TO CHECK**

## 9 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843-18040



- (a) Turn the ignition switch to LOCK.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- (c) Connect the connector of a new seat position airbag sensor.
- (d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
- (e) Turn the ignition switch to ON, and wait at least for 20 seconds.
- (f) Clear the DTC stored in memory (See page 05-424).
- (g) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
- (h) Turn the ignition switch to ON, and wait at least for 20 seconds.
- (i) Check the DTC (See page 05-424).

**OK:****DTC D1153/25 is not output.**

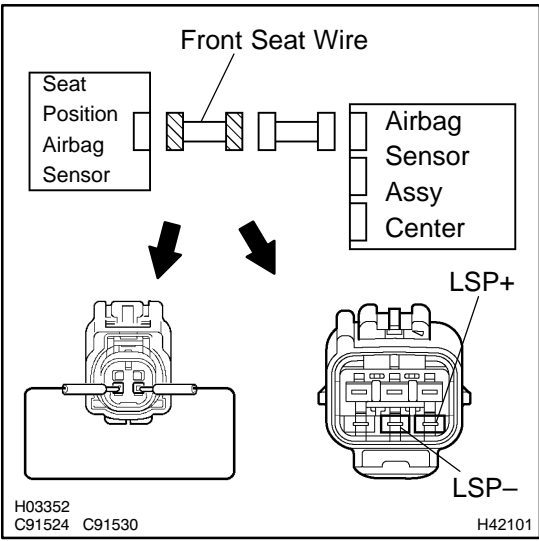
HINT:

Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

**NG****REPLACE AIR BAG SENSOR ASSY CENTER****OK****USE SIMULATION METHOD TO CHECK**

**10 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY)**

SST 09843-18040



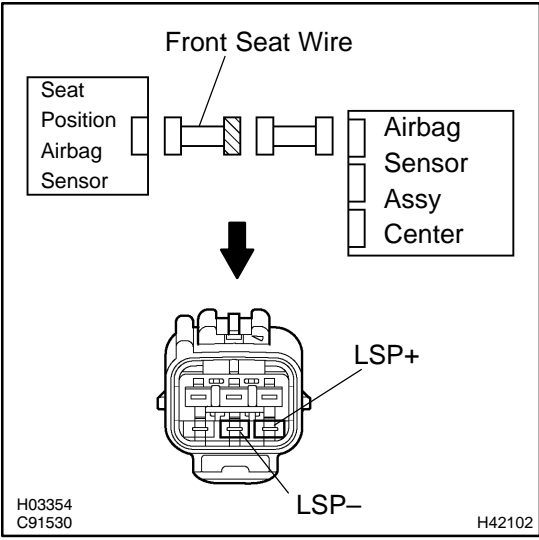
- (a) Disconnect the front seat wire connector on the airbag sensor assy center side.
  - (b) For the front seat wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the resistance between LSP+ and LSP-.
- OK:**  
**Resistance: Below 1 Ω**

**NG** REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSY)

**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER - FRONT SEAT INNER BELT ASSY)**

**11 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSY)**



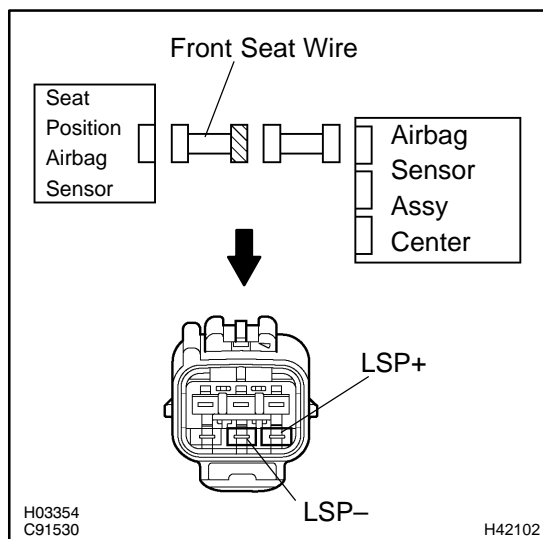
- (a) Disconnect the front seat wire connector on the airbag sensor assy center side.
  - (b) For the front seat wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position sensor, measure the resistance between body ground and each of LSP+ and LSP-.
- OK:**  
**Resistance: 1 MΩ or Higher**

**NG** REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION SENSOR - FRONT SEAT INNER BELT ASSY)

**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER - FRONT SEAT INNER BELT ASSY)**

## 12 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR – FRONT SEAT INNER BELT ASSY)



- Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
- Disconnect the front seat wire connector on the airbag sensor assy center side.
- Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
- Turn the ignition switch to ON, and wait at least for 60 seconds.
- For the front seat wire connector (on the airbag sensor assy center side) between the front seat inner belt assy and the seat position airbag sensor, measure the voltage between body ground and each of LSP+ and LSP–.

**OK:**

**Voltage: Below 1 V**

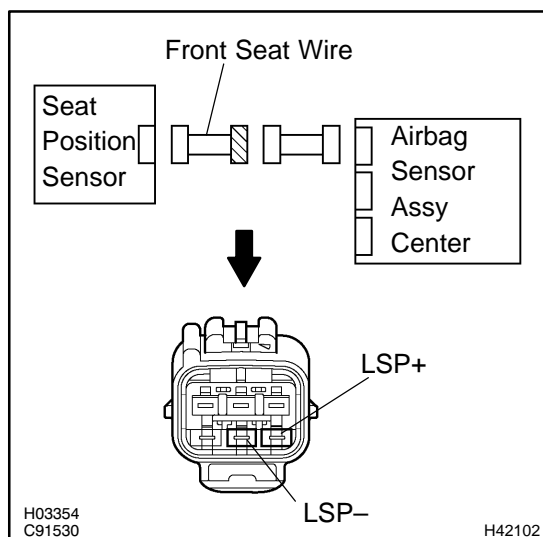
**NG**

**REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION AIRBAG SENSOR – FRONT SEAT INNER BELT ASSY)**

**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT INNER BELT ASSY)**

## 13 CHECK WIRE HARNESS(SEAT POSITION AIRBAG SENSOR – FRONT SEAT INNER BELT ASSY)



- Turn the ignition switch to LOCK.
- For the front seat wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position sensor, measure the resistance between LSP+ and LSP–.

**OK:**

**Resistance: 1 MΩ or Higher**

**NG**

**REPAIR OR REPLACE WIRE HARNESS(SEAT POSITION AIRBAG SENSOR – FRONT SEAT INNER BELT ASSY)**

**OK**

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT INNER BELT ASSY)**