DTC	I BII/UII	Center Airbag Sensor Assembly Communica- tion Circuit Malfunction
-----	-----------	--

DESCRIPTION

The center airbag sensor assembly communication circuit consists of the occupant classification ECU and the center airbag sensor assembly.

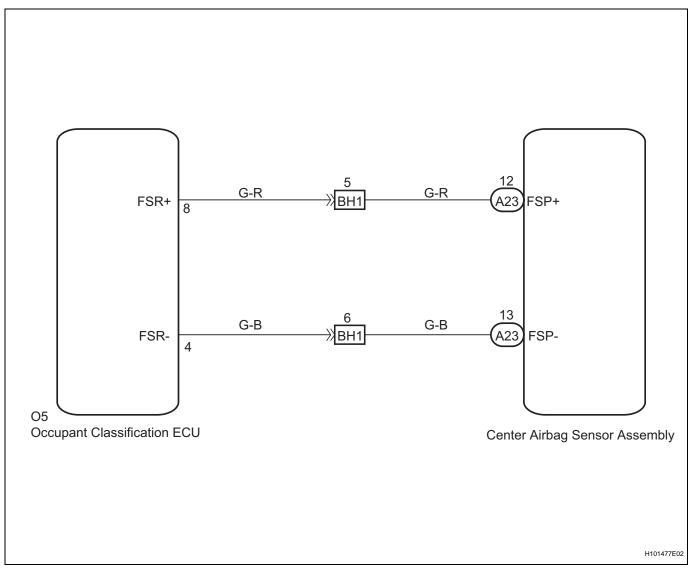
DTC B1790 is set when a malfunction is detected in the center airbag sensor assembly communication circuit.

DTC No.	DTC Detections Conditions	Trouble Areas
B1790	 The occupant classification ECU 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 center airbag sensor assembly communication circuit for 2 seconds Center airbag sensor assembly malfunction Occupant classification ECU malfunction 	 Floor wire No. 1 seat wire Occupant classification ECU Center airbag sensor assembly

HINT:

- When DTC B1630/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1790 of the occupant classification system.
- Use the intelligent tester to check for DTCs of the occupant classification ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM



CAUTION:

In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.

(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 connectors from the center airbag sensor assembly.
- (d) Disconnect the connectors from the steering pad assembly.

(e) Disconnect the connector from the front passenger airbag assembly. HINT:

Skip the following steps if side and curtain shield airbags are not fitted.

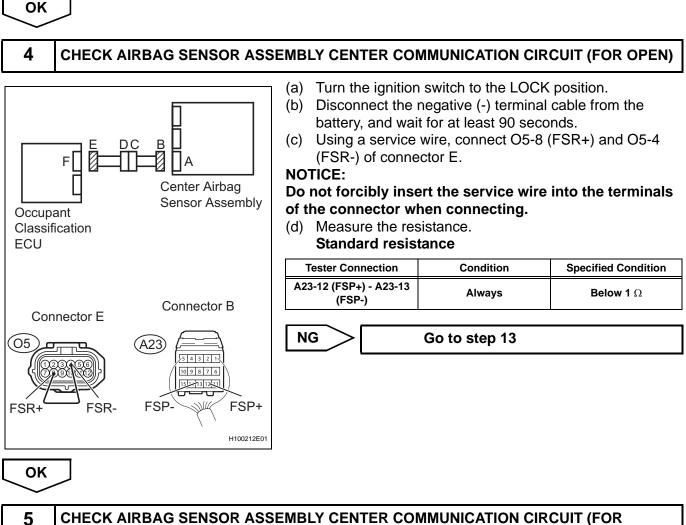
- (f) Disconnect the connector from the front seat airbag assembly LH.
- (g) Disconnect the connector from the front seat airbag assembly RH.
- (h) Disconnect the connector from the curtain shield airbag assembly LH.
- (i) Disconnect the connector from the curtain shield airbag assembly RH.
- (j) Disconnect the connector from the front seat outer belt assembly LH.
- (k) Disconnect the connector from the front seat outer belt assembly RH.

RS-429

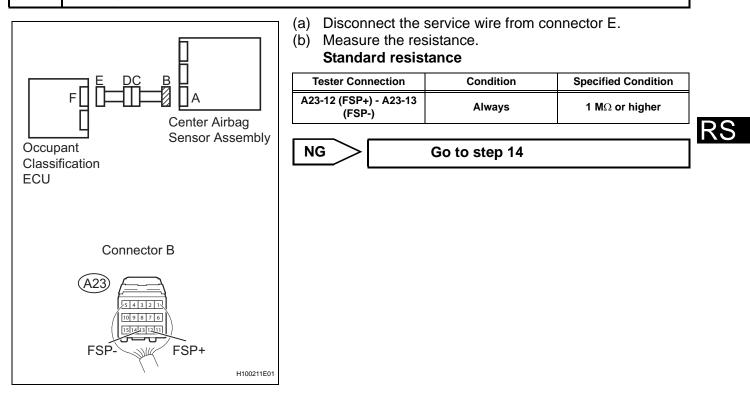
HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front RH seat assembly installation bolts to see the under surface of the seat cushion.
- In the above case, hold the seat so that it does not fall down. Holding the seat for a long period of time may cause problems, such as seat rail deformation. Hold the seat up only for as long as necessary.

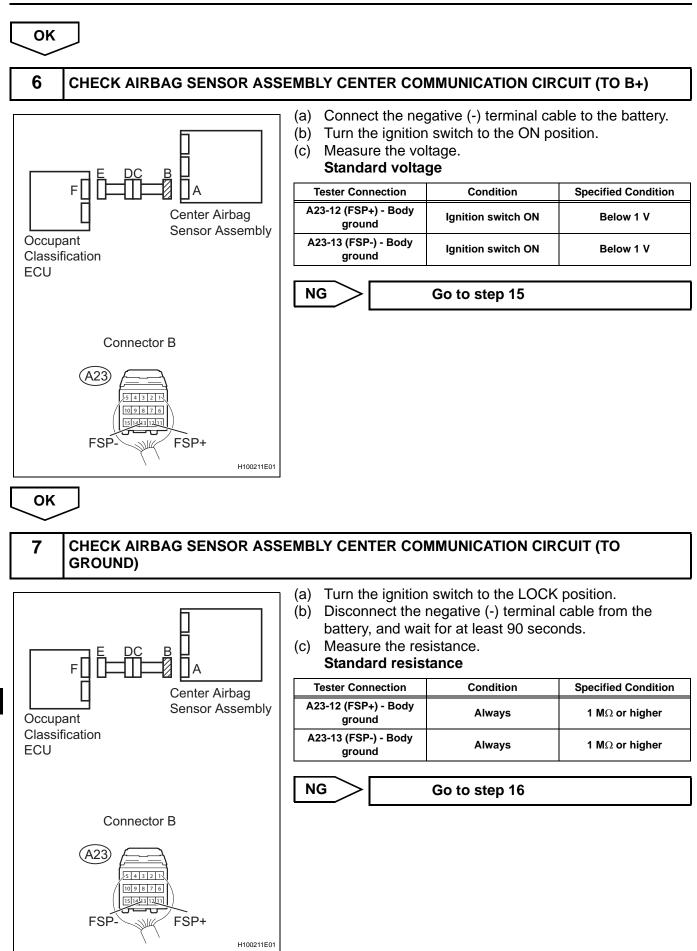
1 CHECK DTC	
	 (a) Turn the ignition switch to the ON position. (b) Clear any DTCs stored in the memory (See page RS-365). HINT: First clear DTCs stored in the occupant classification EC and then in the center airbag sensor assembly. Use the intelligent tester to clear the DTCs of the occupan classification ECU, otherwise the DTCs cannot be cleared (c) Turn the ignition switch to the LOCK position. (d) Turn the ignition switch to the ON position. (e) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page RS-365). OK: DTC B1790 is not output. HINT:
NG	OK USE SIMULATION METHOD TO CHECK
2 CHECK CONNECT CONNEC	CTORS
	 (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) Check that the connectors are properly connected to the occupant classification ECU and the center airbag sensor assembly. OK: The connectors are properly connected.
	NG CONNECT CONNECTORS
ОК	
3 CHECK CONNECTORS	
L I	 (a) Check that the connectors (on the center airbag sense assembly side and occupant classification ECU side) a not damaged (See page IN-34). OK: The connectors are not deformed or damaged.
	NG REPAIR OR REPLACE WIRE HARNESS



CHECK AIRBAG SENSOR ASSEMBLY CENTER COMMUNICATION CIRCUIT (FOR SHORT)



RS



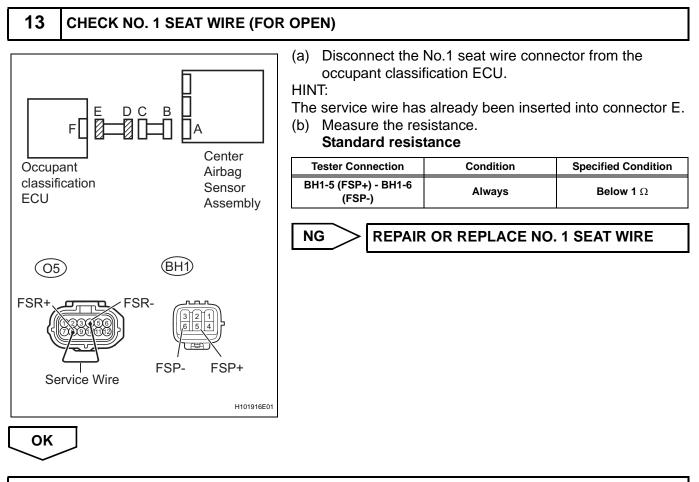
ОК	
8	CHECK DTC
	 (a) Connect the connectors to the occupant classification ECU and the center airbag sensor assembly. (b) Connect the negative (-) terminal cable to the battery. (c) Turn the ignition switch to the ON position. (d) Clear any DTCs stored in the memory (See page RS-365).
	 HINT: First clear any DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly. Use the intelligent tester to clear the DTCs of the occupant classification ECU, otherwise the DTCs cannot be cleared. (e) Turn the ignition switch to the LOCK position. (f) Turn the ignition switch to the ON position. (g) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page RS-365). OK: DTC B1790 is not output. HINT: DTCs other than B1790 may be output at this time, but they are not related to this check.
	NG USE SIMULATION METHOD TO CHECK
NG	
9	REPLACE OCCUPANT CLASSIFICATION ECU
	 (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 occupant classification ECU (See page RS-631). HINT: Perform the inspection using parts from a normal vehicle when possible.
NEX	
10	PERFORM ZERO POINT CALIBRATION
	 (a) Connect the negative (-) terminal cable to the battery. (b) Connect the intelligent tester to the DLC3. (c) Turn the ignition switch to the ON position. (d) Using the intelligent tester, perform the zero point

(d) Using the intelligent tester, perform the zero point calibration (See page RS-357).
 OK:

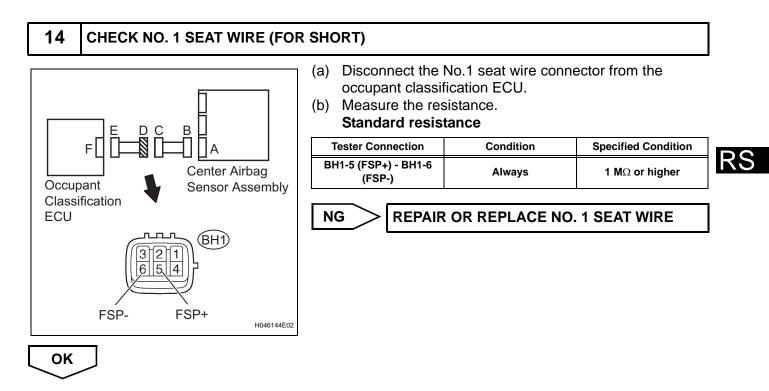
COMPLETED is displayed on the tester.

11	PERFORM SENSITIVIT	TY CHECK
		 (a) Using the intelligent tester, perform the sensitivity checl (See page RS-357). Standard value: 27 to 33 kg (59.52 to 72.75 lb)
	Т	
12	СНЕСК ДТС	
	-	 (a) Connect the connector to the occupant classification ECU.
		(b) Connect the negative (-) terminal cable to the battery.
		(c) Turn the ignition switch to the ON position.(d) Clear any DTCs stored in the memory (See page RS-
		365). HINT:
		 First clear DTCs stored in the occupant classification EC
		and then in the center airbag sensor assembly.Use the intelligent tester to clear the DTCs of the occupa
		classification ECU, otherwise the DTCs cannot be cleare (e) Turn the ignition switch to the LOCK position.
		(f) Turn the ignition switch to the ON position.
		 (g) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page RS-365).
		OK:
		DTC B1790 is not output. HINT:
		DTCs other than B1790 may be output at this time, but the
		are not related to this check.
		NG REPLACE AIRBAG SENSOR ASSEMBLY

END



REPAIR OR REPLACE FLOOR WIRE



REPAIR OR REPLACE FLOOR WIRE

RS

15 CHECK NO. 1 SEAT WIRE (TO	B+)		
F Center Airbag Sensor Assembly ECU BH1 BH1	 (b) Disconnect the battery, and wai (c) Disconnect the occupant classi (d) Disconnect the classification EC (e) Connect the neg 	connector from the c CU. gative (-) terminal ca n switch to the ON po Itage.	cable from the onds. hector from the occupant ble to the battery.
	Tester Connection	Condition	Specified Condition
	BH1-5 (FSP+) - Body ground	Ignition switch ON	Below 1 V
FSP- FSP+ H046144E02	BH1-6 (FSP-) - Body ground	Ignition switch ON	Below 1 V
OK REPAIR OR REPLACE FLOOR WIRE			
OK REPAIR OR REPLACE FLOOR WIRE 16 CHECK NO. 1 SEAT WIRE (TO	GROUND)		
The Check No. 1 SEAT WIRE (TO Check No. 1 S	•	sistance.	ector from the Specified Condition 1 MΩ or higher
REPAIR OR REPLACE FLOOR WIRE 16 CHECK NO. 1 SEAT WIRE (TO F F Occupant Occupant Center Airbag Sensor Assembly	 (a) Disconnect the occupant classif (b) Measure the rest Standard resis Tester Connection BH1-5 (FSP+) - Body 	fication ECU. sistance. tance Condition	Specified Condition
16 CHECK NO. 1 SEAT WIRE (TO F	 (a) Disconnect the occupant classif (b) Measure the rest Standard resis Tester Connection BH1-5 (FSP+) - Body ground BH1-6 (FSP-) - Body ground 	fication ECU. sistance. tance Condition Always	Specified Condition 1 MΩ or higher 1 MΩ or higher

REPAIR OR REPLACE FLOOR WIRE