DTC

Front Occupant Classification Sensor LH Circuit Malfunction

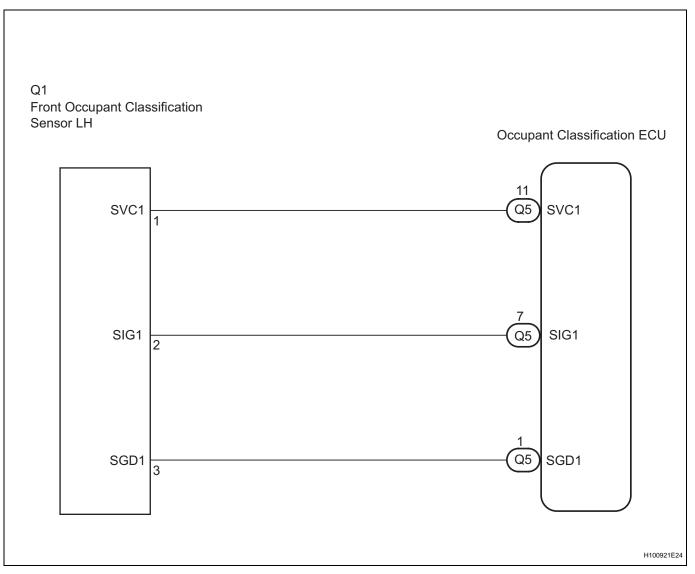
DESCRIPTION

The front occupant classification sensor LH circuit consists of the occupant classification ECU and the front occupant classification sensor LH.

DTC B1780 is recorded when a malfunction is detected in the front occupant classification sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area	
B1780	 Occupant classification ECU detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in the front occupant classification sensor LH circuit for 2 seconds Front occupant classification sensor LH malfunction Occupant classification ECU malfunction 	 No. 1 seat wire Front seat assembly RH (Front occupant classification sensor LH) Occupant classification ECU 	

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

OK

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

ſ	1	CHECK DTC	
			 (a) Turn the ignition switch to the on position. (b) Clear the DTCs stored in the memory (See page RS-254). HINT:
			First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
			(c) Turn the ignition switch to the lock position.
1			(d) Turn the ignition switch to the on position.
			(e) Check the DTCs (See page RS-254).
			OK: DTC B1780 is not output. HINT: Codes other than DTC B1780 may be output at this time but they are not related to this check.
			OK USE SIMULATION METHOD TO CHECK
[NG		
	2	CHECK CONNECTION OF	CONNECTORS
_			(a) Turn the ignition switch to the lock position.(b) Disconnect the negative (-) terminal cable from the

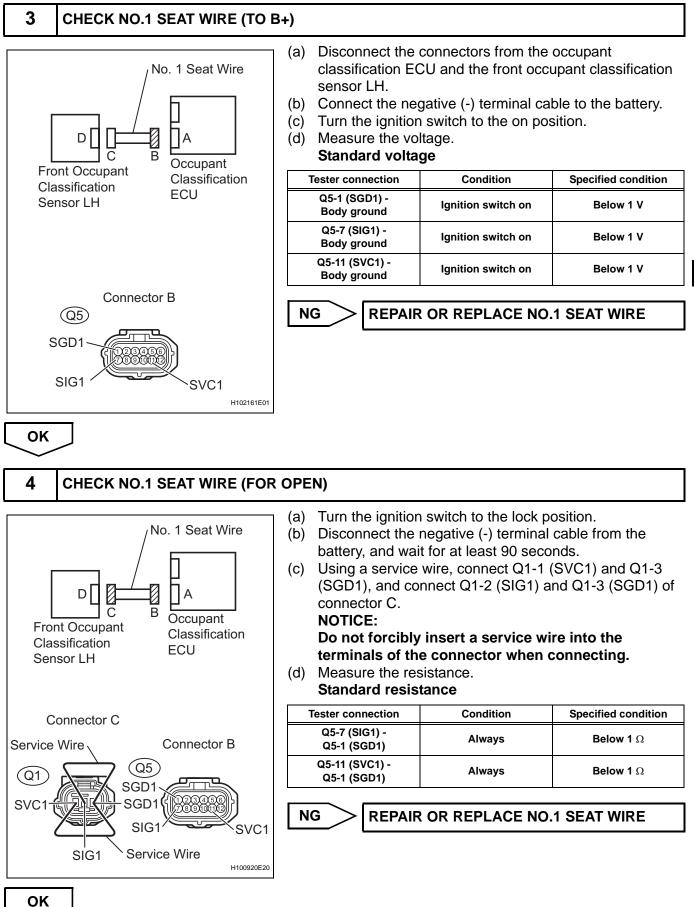
- battery, and wait for at least 90 seconds.(c) Check that the connectors are properly connected to the
 - occupant classification ECU and the front occupant classification sensor LH.

OK:

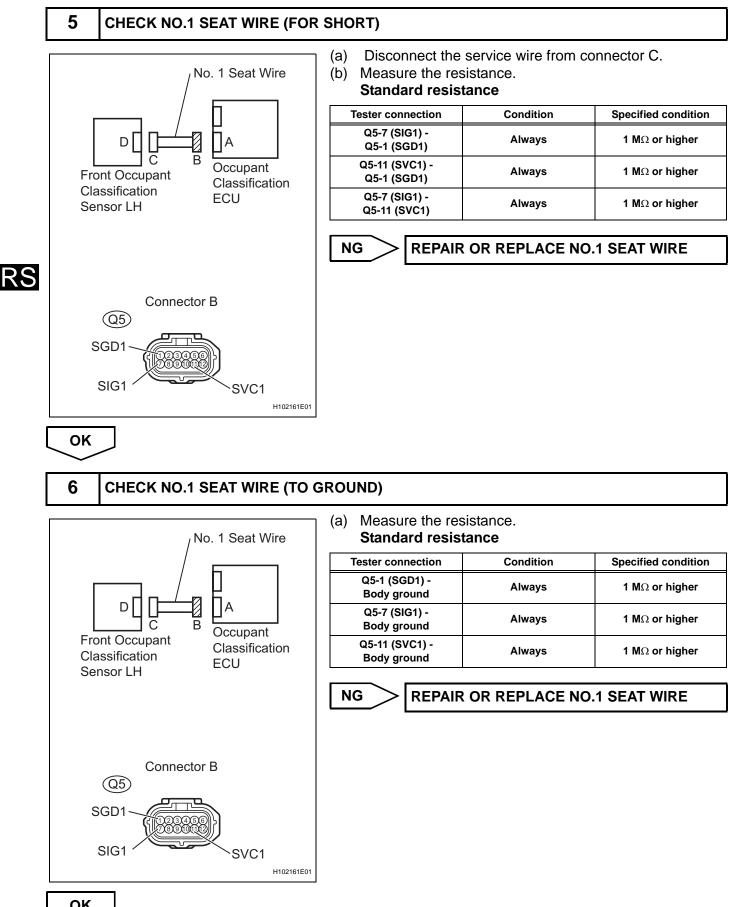
The connectors are properly connected.



CONNECT CONNECTORS



RS-270 SUPPLEMENTAL RESTRAINT SYSTEM – OCCUPANT CLASSIFICATION SYSTEM



OK

7	CHECK DTC			
_		(a)	Connor	t the connectors to the accurant elegation
		(a)		t the connectors to the occupant classification d the front occupant classification sensor LH.
		(h)		t the negative (-) terminal cable to the battery.
		(c)		e ignition switch to the on position.
		(d)		e DTCs stored in the memory (See page RS-
		()	254).	
			HINT:	
			First cle	ear DTCs stored in the occupant classification
				d then in the center airbag sensor assembly.
		(e)		e ignition switch to the lock position.
		(f)		e ignition switch to the on position.
		(g)		he DTCs (See page <mark>RS-254</mark>).
			OK:	21790 is not sutnut
			HINT:	B1780 is not output.
				other than DTC B1780 may be output at this time,
				v are not related to this check.
		0	к >[USE SIMULATION METHOD TO CHECK
		<u> </u>	I	
NG				
8	REPLACE OCCUPANT CLASSI	FICA		
		(a)		e ignition switch to the lock position.
		(b)		nect the negative (-) terminal cable from the
				and wait for at least 90 seconds.
		(c)	•	e the occupant classification ECU (See page RS
			412).	
			HINT:	n the inspection using parts from a normal vehicle
			if possi	
			ii poooli	
NEXT				
<u> </u>				
9	PERFORM ZERO POINT CALIB	RATI	ON	
		(a)	Connec	t the negative (-) terminal cable to the battery.
		(b)		t the intelligent tester to the DLC3.
		(c)		e ignition switch to the on position.
		(d)	-	ne intelligent tester, perform the zero point
				ion (See page RS-246).
			OK: COM	PLETED is displayed.
			— r	
		N	G >I	Go to step 12
OK	_	N	G	Go to step 12

10	PERFORM SENSITIVITY CHECK
	 (a) Using the intelligent tester, perform the sensitivity check (See page RS-246). (1) Confirm that nothing is placed on the passenger seat. (2) Confirm that the beginning sensor reading is within the standard range. Standard range: -3.2 to 3.2 kg (-7 to 7 lb) (3) Place a 30 kg (66.14 lb) weight (e.g. a lead mass) onto the front passenger seat. (4) Confirm that the sensitivity is within the standard range. Standard range: 27 to 33 kg (59.52 to 72.75 lb) HINT: When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used).
	NG Go to step 12
ОК	
11	CHECK DTC
	 (a) Connect the negative (-) terminal cable to the battery. (b) Turn the ignition switch to the on position. (c) Clear the DTCs stored in the memory (See page RS-254). HINT: First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly. (d) Turn the ignition switch to the lock position. (e) Turn the ignition switch to the on position. (f) Check the DTCs (See page RS-254). OK: DTC B1780 is not output. HINT: Codes other than DTC B1780 may be output at this time but they are not related to this check.
NG	
12	REPLACE FRONT SEAT ASSEMBLY RH
	(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 assembly RH (See page SE-5).

13	PERFORM ZERO POINT CALIBRATION		
	(c)	Connect the negative (-) terminal cable to the battery. Connect the intelligent tester to the DLC3. Turn the ignition switch to the on position. Using the intelligent tester, perform the zero point calibration (See page RS-246). OK: COMPLETED is displayed.	
	Ţ		
14	PERFORM SENSITIVITY CHECK		
NEX	(a)	 Using the intelligent tester, perform the sensitivity check (See page RS-246). (1) Confirm that nothing is placed on the passenger seat. (2) Confirm that the beginning sensor reading is within the standard range. Standard range: -3.2 to 3.2 kg (-7 to 7 lb) (3) Place a 30 kg (66.14 lb) weight (e.g. a lead mass) onto the front passenger seat. (4) Confirm that the sensitivity is within the standard range. Standard range: 27 to 33 kg (59.52 to 72.75 lb) HINT: When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used). 	

END