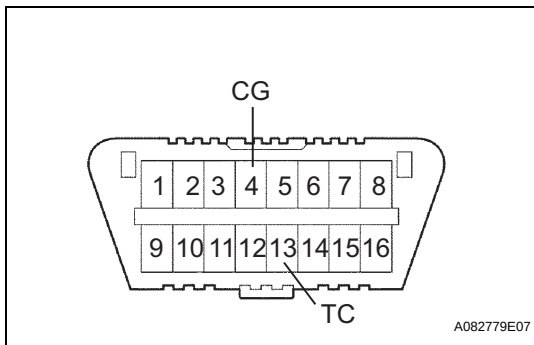


RS



DTC CHECK / CLEAR

1. DTC CHECK (USING SST CHECK WIRE)

(a) Check the DTCs (Present trouble code).

(1) Turn the engine switch on (IG), and wait for approximately 60 seconds.

(2) Using SST, connect terminals TC and CG of the DLC3.

SST 09843-18040

NOTICE:

Connect the terminals to the correct positions to avoid a malfunction.

(b) Check the DTCs (Past trouble code).

(1) Using SST, connect terminals TC and CG of the DLC3.

SST 09843-18040

NOTICE:

Connect the terminals to the correct positions to avoid a malfunction.

(2) Turn the engine switch on (IG), and wait for approximately 60 seconds.

(c) Read the DTCs.

(1) Read the blinking patterns of the DTCs. As examples, the blinking patterns for the normal system code and trouble codes 11 and 31 are shown in the illustration.

- Normal system code indication (without past trouble code)

The light blinks twice per second.

- Normal system code indication (with past trouble code)

When the past trouble code is stored in the center airbag sensor assembly, the light blinks only once per second.

- Trouble code indication

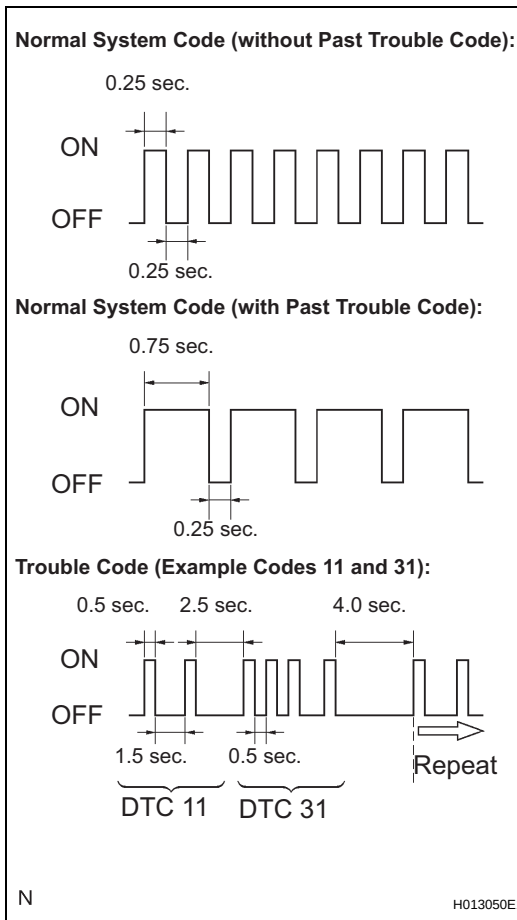
The first blinks indicates the first DTC. The second blinks occurs after a 1.5-second pause.

If there is more than 1 code, there will be a 2.5-second pause between each code. After all codes are shown, there will be a 4.0-second pause, and then all codes will be repeated.

HINT:

- If 2 or more malfunctions are found, the indication begins with the smaller-numbered code.

- If DTCs are indicated without connecting the terminals, proceed to "Diagnosis Circuit" (See page [RS-300](#)).



2. DTC CLEAR (USING SST CHECK WIRE)

(a) Clear the DTCs.

- (1) When the engine switch is turned off, the DTCs are cleared.

HINT:

Depending on the DTC, the code may not be cleared by turning off the engine switch. In this case, proceed to the next procedure.

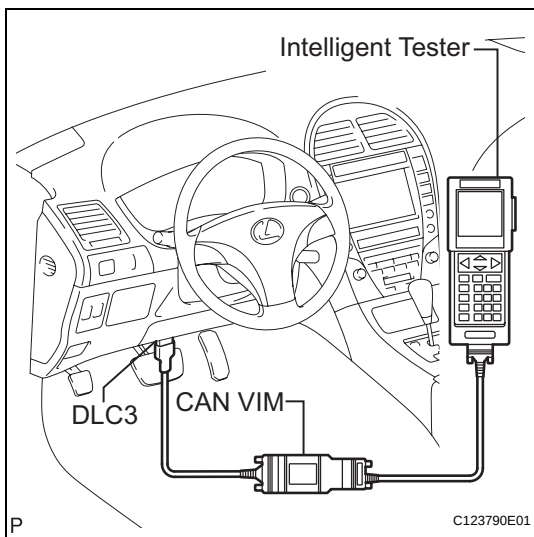
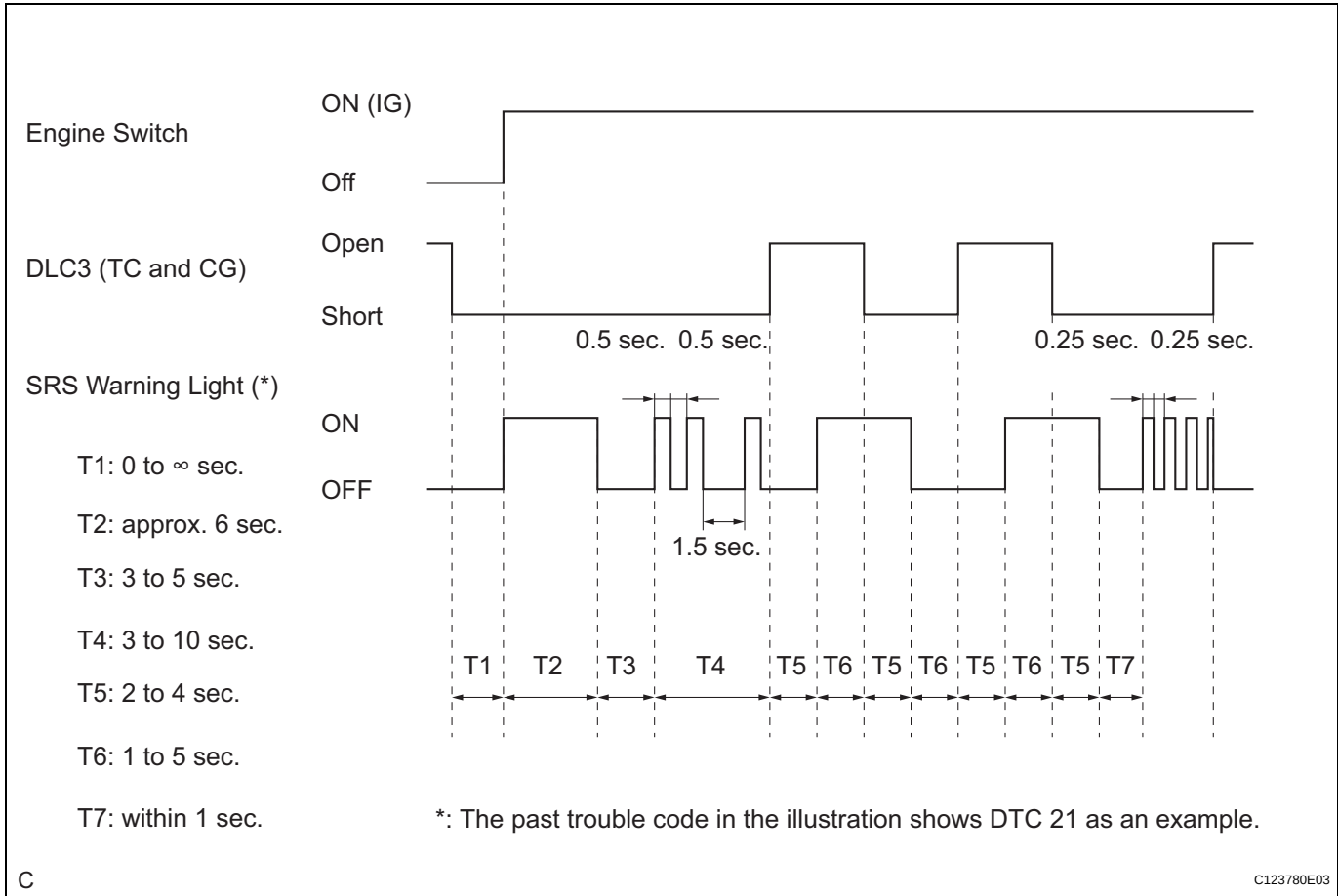
- (2) Using SST, connect terminals TC and CG of the DLC3, and then turn the engine switch on (IG).

SST 09843-18040

- (3) Disconnect terminal TC of the DLC3 within 3 to 10 seconds after the DTCs are output, and check if the SRS warning light comes on after 3 seconds.
- (4) Within 2 to 4 seconds after the SRS warning light comes on, connect terminals TC and CG of the DLC3.
- (5) The SRS warning light should go off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Then, disconnect terminal TC within 2 to 4 seconds after the SRS warning light goes off.
- (6) The SRS warning light comes on again within 2 to 4 seconds after disconnecting terminal TC. Then, reconnect terminals TC and CG within 2 to 4 seconds after the SRS warning light comes on.

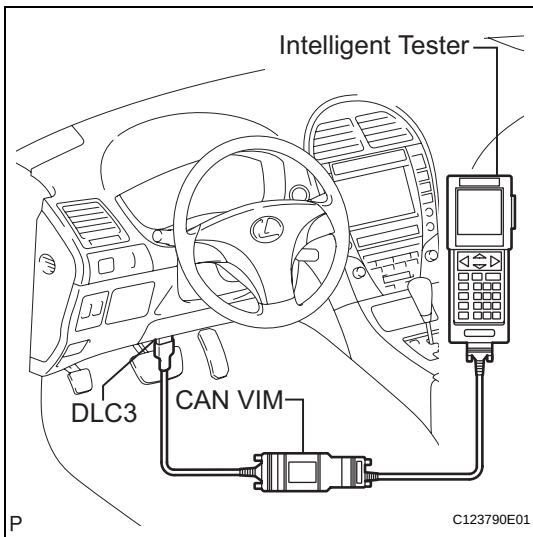
RS

- (7) Check if the SRS warning light goes off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Also check if the normal system code is output within 1 second after the SRS warning light goes off.
If DTCs are not cleared, repeat this procedure until the codes are cleared.



3. DTC CHECK

- (a) Check the DTCs.
- (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the engine switch on (IG).
 - (3) Check the DTCs by following the prompts on the tester screen.
- HINT:
Refer to the intelligent tester operator's manual for further details.
- (b) Clear the DTCs.
- (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the engine switch on (IG).
 - (3) Clear the DTCs by following the prompts on the tester screen.
- HINT:
Refer to the intelligent tester operator's manual for further details.



CHECK MODE PROCEDURE

1. CHECK MODE (SIGNAL CHECK): DTC CHECK

- Connect the intelligent tester to the DLC3.
- Turn the engine switch on (IG).
- Select "SIGNAL CHECK", and proceed with checking using the intelligent tester.

NOTICE:

Select "SIGNAL CHECK" from the "DTC CHECK" screen displayed on the intelligent tester to clear the output DTCs (both present and past).

HINT:

- DTCs can be detected more sensitively in check mode than in normal diagnosis mode.
- Perform check mode inspection when a malfunction in each squib circuit is suspected even after the normal system code is output through normal diagnosis mode inspection.

DIAGNOSTIC TROUBLE CODE CHART

HINT:

- When the SRS warning light remains on and the DTC output is the normal system code, a voltage source drop is likely to occur. This malfunction is not stored in the memory by the center airbag sensor assembly. If the power source voltage returns to normal, the SRS warning light will automatically go off.
- When 2 or more codes are indicated, the code with the lower number appears first.
- If a code is not listed on the display chart, the center airbag sensor assembly may have failed.
- In the case of any malfunction concerning an open circuit, short to ground, or short to B+ due to a squib, other trouble codes may not be detected. In this case, repair the malfunction currently indicated and then perform malfunction diagnosis again.
- Mark in the check mode column:
 *1: DTC is not corresponding to the check mode.
 *2: DTC is corresponding to the check mode.
- DTC which has the mark of the *3 is output only the equipped car of rear side airbag.

AIRBAG SYSTEM:

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1000/31	Center Airbag Sensor Assembly Malfunction	Center airbag sensor assembly	*1	RS-60
B1603/83	Front Satellite Sensor Bus RH Initialization Incomplete	1. Instrument panel wire 2. Engine room main wire 3. Front airbag sensor RH 4. Center airbag sensor assembly	*1	RS-61
B1608/84	Front Satellite Sensor Bus LH Initialization Incomplete	1. Instrument panel wire 2. Engine room main wire 3. Front airbag sensor LH 4. Center airbag sensor assembly	*1	RS-78
B1610/13	Front Airbag Sensor RH Malfunction	1. Front airbag sensor RH 2. Center airbag sensor assembly	*1	RS-95
B1612/83	Lost Communication with Front Airbag Sensor RH	1. Instrument panel wire 2. Engine room main wire 3. Front airbag sensor RH 4. Center airbag sensor assembly	*1	RS-61
B1613/83	Front Airbag Sensor RH Initialization Incomplete	1. Instrument panel wire 2. Engine room main wire 3. Front airbag sensor RH 4. Center airbag sensor assembly	*1	RS-61
B1615/14	Front Airbag Sensor LH Malfunction	1. Front airbag sensor LH 2. Center airbag sensor assembly	*1	RS-97
B1617/84	Lost Communication with Front Airbag Sensor LH	1. Instrument panel wire 2. Engine room main wire 3. Front airbag sensor LH 4. Center airbag sensor assembly	*1	RS-78

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1618/84	Front Airbag Sensor LH Initialization Incomplete	1. Instrument panel wire 2. Engine room main wire 3. Front airbag sensor LH 4. Center airbag sensor assembly	*1	RS-78
B1620/21	Driver Side - Side Airbag Sensor Malfunction	1. Side airbag sensor LH 2. Center airbag sensor assembly	*1	RS-99
B1622/81	Lost Communication with Driver Side - Side Airbag Sensor Assembly	1. Floor wire 2. Side airbag sensor LH 3. Rear airbag sensor LH 4. Center airbag sensor assembly	*1	RS-103
B1623/81	Driver Side - Side Airbag Sensor Assembly Initialization Incomplete	1. Floor wire 2. Side airbag sensor LH 3. Rear airbag sensor LH 4. Center airbag sensor assembly	*1	RS-103
B1625/22	Front Passenger Side - Side Airbag Sensor Malfunction	1. Side airbag sensor RH 2. Center airbag sensor assembly	*1	RS-126
B1627/82	Lost Communication with Front Passenger Side - Side Airbag Sensor Assembly	1. Floor wire No. 2 2. Side airbag sensor RH 3. Rear airbag sensor RH 4. Center airbag sensor assembly	*1	RS-130
B1628/82	Front Passenger Side - Side Airbag Sensor Assembly Initialization Incomplete	1. Floor wire No. 2 2. Side airbag sensor RH 3. Rear airbag sensor RH 4. Center airbag sensor assembly	*1	RS-130
B1630/23	Driver Side Rear Airbag Sensor Malfunction	1. Rear airbag sensor LH 2. Center airbag sensor assembly	*1	RS-147
B1632/81	Lost Communication with Driver Side Rear Airbag Sensor	1. Floor wire 2. Side airbag sensor LH 3. Rear airbag sensor LH 4. Center airbag sensor assembly	*1	RS-103
B1633/81	Driver Side Rear Airbag Sensor Initialization Incomplete	1. Floor wire 2. Side airbag sensor LH 3. Rear airbag sensor LH 4. Center airbag sensor assembly	*1	RS-103
B1635/24	Front Passenger Side Rear Airbag Sensor Malfunction	1. Rear airbag sensor RH 2. Center airbag sensor assembly	*1	RS-151
B1637/82	Lost Communication with Passenger Side Rear Airbag Sensor	1. Floor wire No. 2 2. Side airbag sensor RH 3. Rear airbag sensor RH 4. Center airbag sensor assembly	*1	RS-130
B1638/82	Passenger Side Rear Airbag Sensor Initialization Incomplete	1. Floor wire No. 2 2. Side airbag sensor RH 3. Rear airbag sensor RH 4. Center airbag sensor assembly	*1	RS-130
B1642/81	Lost Communication with Driver Side Satellite Sensor Bus	1. Floor wire 2. Side airbag sensor LH 3. Rear airbag sensor LH 4. Center airbag sensor assembly	*1	RS-103

RS

RS

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1643/81	Driver Side Satellite Sensor Bus Initialization Incomplete	1. Floor wire 2. Side airbag sensor LH 3. Rear airbag sensor LH 4. Center airbag sensor assembly	*1	RS-103
B1647/82	Lost Communication with Front Passenger Side Satellite Sensor Bus	1. Floor wire No. 2 2. Side airbag sensor RH 3. Rear airbag sensor RH 4. Center airbag sensor assembly	*1	RS-130
B1648/82	Front Passenger Side Satellite Sensor Bus Initialization Incomplete	1. Floor wire No. 2 2. Side airbag sensor RH 3. Rear airbag sensor RH 4. Center airbag sensor assembly	*1	RS-130
B1650/32	Occupant Classification System Malfunction	1. Floor wire No. 2 2. Front seat wire RH 3. Occupant classification system 4. Center airbag sensor assembly	*1	RS-155
B1653/35	Seat Position Airbag Sensor Circuit Malfunction	1. Floor wire 2. Seat position airbag sensor 3. Center airbag sensor assembly	*1	RS-164
B1655/37	Driver Side Seat Belt Buckle Switch Circuit Malfunction	1. Floor wire 2. Front seat inner belt assembly LH (Driver side seat belt buckle switch) 3. Center airbag sensor assembly	*1	RS-174
B1660/43	Passenger Airbag ON / OFF Indicator Circuit Malfunction	1. Instrument panel wire 2. Multi-display assembly (with Navigation system) 3. Air conditioner panel sub-assembly (without Navigation system) 4. Center airbag sensor assembly	*1	RS-184
B1800/51	Short in Driver Side Squib Circuit	1. Instrument panel wire 2. Spiral cable 3. Steering pad (Driver side squib) 4. Center airbag sensor assembly	*2	RS-206
B1801/51	Open in Driver Side Squib Circuit	Same as DTC B1800/51	*2	RS-206
B1802/51	Short to GND in Driver Side Squib Circuit	Same as DTC B1800/51	*2	RS-206
B1803/51	Short to B+ in Driver Side Squib Circuit	Same as DTC B1800/51	*2	RS-206
B1805/52	Short in Front Passenger Side Squib Circuit	1. Instrument panel wire 2. Instrument panel wire assembly 3. Front passenger airbag assembly (Front passenger side squib) 4. Center airbag sensor assembly	*2	RS-213
B1806/52	Open in Front Passenger Side Squib Circuit	Same as DTC B1805/52	*2	RS-213

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1807/52	Short to GND in Front Passenger Side Squib Circuit	Same as DTC B1805/52	*2	RS-213
B1808/52	Short to B+ in Front Passenger Side Squib Circuit	Same as DTC B1805/52	*2	RS-213
B1810/53	Short in Driver Side Squib 2nd Step Circuit	1. Instrument panel wire 2. Spiral cable 3. Steering pad (Driver side squib 2nd step) 4. Center airbag sensor assembly	*2	RS-220
B1811/53	Open in Driver Side Squib 2nd Step Circuit	Same as DTC B1810/53	*2	RS-220
B1812/53	Short to GND in Driver Side Squib 2nd Step Circuit	Same as DTC B1810/53	*2	RS-220
B1813/53	Short to B+ in Driver Side Squib 2nd Step Circuit	Same as DTC B1810/53	*2	RS-220
B1815/54	Short in Front Passenger Side Squib 2nd Step Circuit	1. Instrument panel wire 2. Instrument panel wire assembly 3. Front passenger airbag assembly (Front passenger side squib 2nd step) 4. Center airbag sensor assembly	*2	RS-227
B1816/54	Open in Front Passenger Side Squib 2nd Step Circuit	Same as DTC B1815/54	*2	RS-227
B1817/54	Short to GND in Front Passenger Side Squib 2nd Step Circuit	Same as DTC B1815/54	*2	RS-227
B1818/54	Short to B+ in Front Passenger Side Squib 2nd Step Circuit	Same as DTC B1815/54	*2	RS-227
B1820/55	Short in Front Driver Side - Side Squib Circuit	1. Floor wire 2. Front seat side airbag assembly LH (Front driver side - side squib) 3. Center airbag sensor assembly	*2	RS-234
B1821/55	Open in Front Driver Side - Side Squib Circuit	Same as DTC B1820/55	*2	RS-234
B1822/55	Short to GND in Front Driver Side - Side Squib Circuit	Same as DTC B1820/55	*2	RS-234
B1823/55	Short to B+ in Front Driver Side - Side Squib Circuit	Same as DTC B1820/55	*2	RS-234
B1825/56	Short in Front Passenger Side - Side Squib Circuit	1. Floor wire No. 2 2. Front seat side airbag assembly RH (Front passenger side - side squib) 3. Center airbag sensor assembly	*2	RS-239
B1826/56	Open in Front Passenger Side - Side Squib Circuit	Same as DTC B1825/56	*2	RS-239
B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit	Same as DTC B1825/56	*2	RS-239

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit	Same as DTC B1825/56	*2	RS-239
B1830/57	Short in Driver Side Curtain Shield Squib Circuit	1. Floor wire 2. Curtain shield airbag assembly LH (Driver side curtain shield squib) 3. Center airbag sensor assembly	*2	RS-244
B1831/57	Open in Driver Side Curtain Shield Squib Circuit	Same as DTC B1830/57	*2	RS-244
B1832/57	Short to GND in Driver Side Curtain Shield Squib Circuit	Same as DTC B1830/57	*2	RS-244
B1833/57	Short to B+ in Driver Side Curtain Shield Squib Circuit	Same as DTC B1830/57	*2	RS-244
B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit	1. Floor wire No. 2 2. Curtain shield airbag assembly RH (Front passenger side curtain shield squib) 3. Center airbag sensor assembly	*2	RS-249
B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit	Same as DTC B1835/58	*2	RS-249
B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit	Same as DTC B1835/58	*2	RS-249
B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit	Same as DTC B1835/58	*2	RS-249
B1850/62 (*3)	Short in Rear Driver Side - Side Squib Circuit	1. Floor wire 2. Rear seat side airbag assembly LH (Rear driver side - side squib) 3. Center airbag sensor assembly	*2	RS-254
B1851/62 (*3)	Open in Rear Driver Side - Side Squib Circuit	Same as DTC B1850/62	*2	RS-254
B1852/62 (*3)	Short to GND in Rear Driver Side - Side Squib Circuit	Same as DTC B1850/62	*2	RS-254
B1853/62 (*3)	Short to B+ in Rear Driver Side - Side Squib Circuit	Same as DTC B1850/62	*2	RS-254
B1855/63 (*3)	Short in Rear Passenger Side - Side Squib Circuit	1. Floor wire No. 2 2. Rear seat side airbag assembly RH (Rear passenger side - side squib) 3. Center airbag sensor assembly	*2	RS-259
B1856/63 (*3)	Open in Rear Passenger Side - Side Squib Circuit	Same as DTC B1855/63	*2	RS-259
B1857/63 (*3)	Short to GND in Rear Passenger Side - Side Squib Circuit	Same as DTC B1855/63	*2	RS-259
B1858/63 (*3)	Short to B+ in Rear Passenger Side - Side Squib Circuit	Same as DTC B1855/63	*2	RS-259

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1860/64	Short in Driver Side Knee Airbag Squib Circuit	1. Instrument panel wire 2. Driver side knee airbag assembly (Driver side knee airbag squib) 3. Center airbag sensor assembly	*2	RS-264
B1861/64	Open in Driver Side Knee Airbag Squib Circuit	Same as DTC B1860/64	*2	RS-264
B1862/64	Short to GND in Driver Side Knee Airbag Squib Circuit	Same as DTC B1860/64	*2	RS-264
B1863/64	Short to B+ in Driver Side Knee Airbag Squib Circuit	Same as DTC B1860/64	*2	RS-264
B1865/65	Short in Front Passenger Side Knee Airbag Squib Circuit	1. Instrument panel wire 2. Front passenger side knee airbag assembly (Front passenger side knee airbag squib) 3. Center airbag sensor assembly	*2	RS-269
B1866/65	Open in Front Passenger Side Knee Airbag Squib Circuit	Same as DTC B1865/65	*2	RS-269
B1867/65	Short to GND in Front Passenger Side Knee Airbag Squib Circuit	Same as DTC B1865/65	*2	RS-269
B1868/65	Short to B+ in Front Passenger Side Knee Airbag Squib Circuit	Same as DTC B1865/65	*2	RS-269
B1900/73	Short in Front Driver Side Pretensioner Squib Circuit	1. Floor wire 2. Front seat outer belt assembly LH (Front driver side pretensioner squib) 3. Center airbag sensor assembly	*2	RS-274
B1901/73	Open in Front Driver Side Pretensioner Squib Circuit	Same as DTC B1900/73	*2	RS-274
B1902/73	Short to GND in Front Driver Side Pretensioner Squib Circuit	Same as DTC B1900/73	*2	RS-274
B1903/73	Short to B+ in Front Driver Side Pretensioner Squib Circuit	Same as DTC B1900/73	*2	RS-274
B1905/74	Short in Front Passenger Side Pretensioner Squib Circuit	1. Floor wire No. 2 2. Front seat outer belt assembly RH (Front passenger side pretensioner squib) 3. Center airbag sensor assembly	*2	RS-279
B1906/74	Open in Front Passenger Side Pretensioner Squib Circuit	Same as DTC B1905/74	*2	RS-279
B1907/74	Short to GND in Front Passenger Side Pretensioner Squib Circuit	Same as DTC B1905/74	*2	RS-279
B1908/74	Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit	Same as DTC B1905/74	*2	RS-279

DTC Code	Detection Item	Trouble Area	Check Mode	See page
B1920/77	Short in Rear Driver Side Pretensioner Squib Circuit	1. Floor wire 2. Rear seat outer belt assembly LH (Rear driver side pretensioner squib) 3. Center airbag sensor assembly	*2	RS-284
B1921/77	Open in Rear Pretensioner Squib RH Circuit	Same as DTC B1920/77	*2	RS-284
B1922/77	Short to GND in Rear Pretensioner Squib RH Circuit	Same as DTC B1920/77	*2	RS-284
B1923/77	Short to B+ in Rear Pretensioner Squib RH Circuit	Same as DTC B1920/77	*2	RS-284
B1925/78	Short in Rear Passenger Side Pretensioner Squib Circuit	1. Floor wire No. 2 2. Rear seat outer belt assembly RH (Rear passenger side pretensioner squib) 3. Center airbag sensor assembly	*2	RS-289
B1926/78	Open in Rear Passenger Side Pretensioner Squib Circuit	Same as DTC B1925/78	*2	RS-289
B1927/78	Short to GND in Rear Passenger Side Pretensioner Squib Circuit	Same as DTC B1925/78	*2	RS-289
B1928/78	Short to B+ in Rear Passenger Side Pretensioner Squib Circuit	Same as DTC B1925/78	*2	RS-289

DTC**B1000/31****Center Airbag Sensor Assembly Malfunction****DESCRIPTION**

The center airbag sensor assembly consists of the airbag sensor, the safing sensor, the drive circuit, the diagnosis circuit, the ignition control, etc.

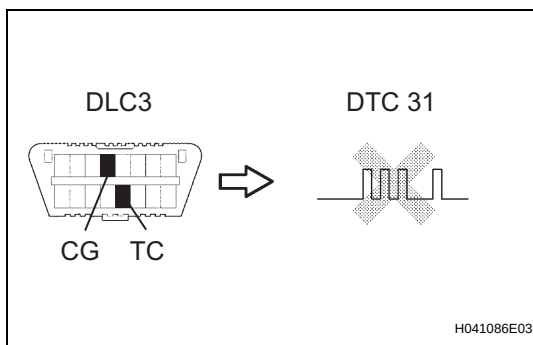
If the center airbag sensor assembly receives signals from the airbag sensor, it determines whether the SRS should be activated.

DTC B1000/31 is recorded when a malfunction is detected in the center airbag sensor assembly.

DTC No.	DTC Detecting Condition	Trouble Area
B1000/31	Center airbag sensor assembly malfunction	Center airbag sensor assembly

HINT:

When a trouble code is displayed simultaneously with B1000/31, repair the malfunction indicated by this code (except B1000/31) first.

INSPECTION PROCEDURE**1****CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- Turn the ignition switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:**DTC B1000/31 is not output.****NG**

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

DTC	B1603/83	Front Satellite Sensor Bus RH Initialization Incomplete
DTC	B1612/83	Lost Communication with Front Airbag Sensor RH
DTC	B1613/83	Front Airbag Sensor RH Initialization Incomplete

DESCRIPTION

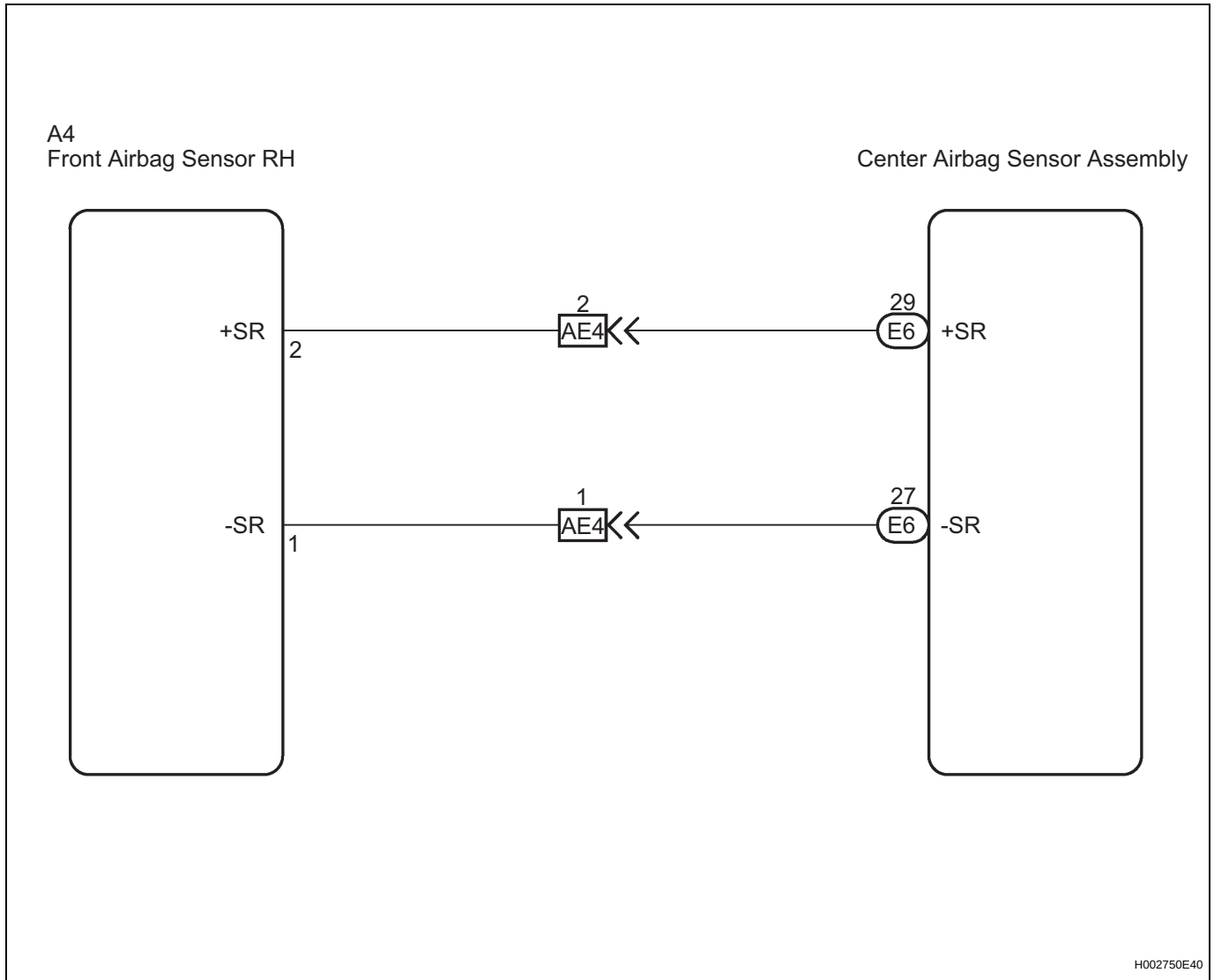
The front airbag sensor RH circuit consists of the center airbag sensor assembly and front airbag sensor RH.

The front airbag sensor RH detects impacts to the vehicle and sends signals to the center airbag sensor assembly to determine if the airbag should be deployed.

DTC B1603/83, B1612/83, or B1613/83 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1603/83 B1612/83 B1613/83	- The airbag sensor assembly center 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 front airbag sensor RH circuit for 2 seconds. - Front airbag sensor RH malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Engine room main wire - Front airbag sensor RH - Center airbag sensor assembly

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 CHECK DTC

- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Turn the engine switch off.
HINT:
If a communication error occurs, DTCs for both the LH and RH sides will be stored simultaneously. To identify the malfunctioning area, turn the engine switch off and then on (IG) again.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

Result

Result	Proceed to
DTC B1603, B1613, or 83 is output.	A

Result	Proceed to
DTC B1618/84 is output.	B
DTC B1603, B1613, or 83 and B1618/84 are not output.	C

HINT:

- DTCs indicating communication errors will be changed to DTCs indicating errors in initialization by turning the engine switch off and then on (IG) again.
- Codes other than DTC B1603, B1613, or 83 and B1618/84 may be output at this time, but they are not related to this check.

B

GO TO DTC B1618/84 (See page [RS-78](#))

C

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

A

2

CHECK CONNECTION OF CONNECTORS

- Turn the engine switch off.
- 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 airbag sensor RH.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY

OK

3

CHECK CONNECTORS

- Disconnect the connectors from the center airbag sensor assembly and front airbag sensor RH.
- Check that the connectors (on the center airbag sensor assembly side and front airbag sensor RH side) are not damaged.

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

4

CHECK VEHICLE CONDITION

- Check whether or not the vehicle is equipped with the rear side airbag.

Result:

A:

with the rear side airbag

B:

without the rear side airbag

B

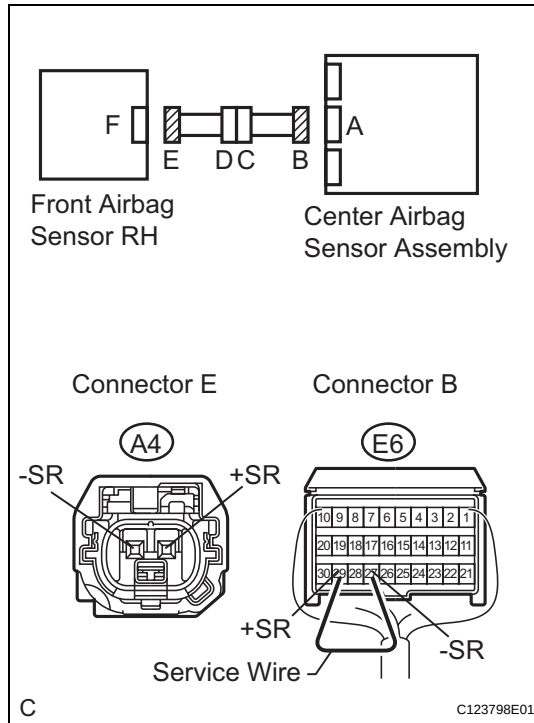
Go to step 14

RS

A

5

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (OPEN)



- (a) Using a service wire, connect terminals 29 (+SR) and 27 (-SR) of connector B.

NOTICE:

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - A4-1 (-SR)	Always	Below 1 Ω

NG

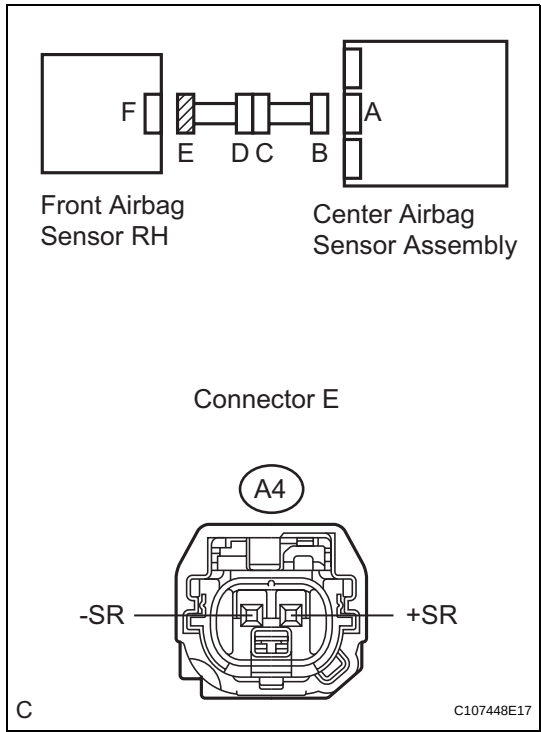
Go to step 10

OK

6

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT)

RS



- (a) Disconnect the service wire from connector B.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - A4-1 (-SR)	Always	1 MΩ or higher

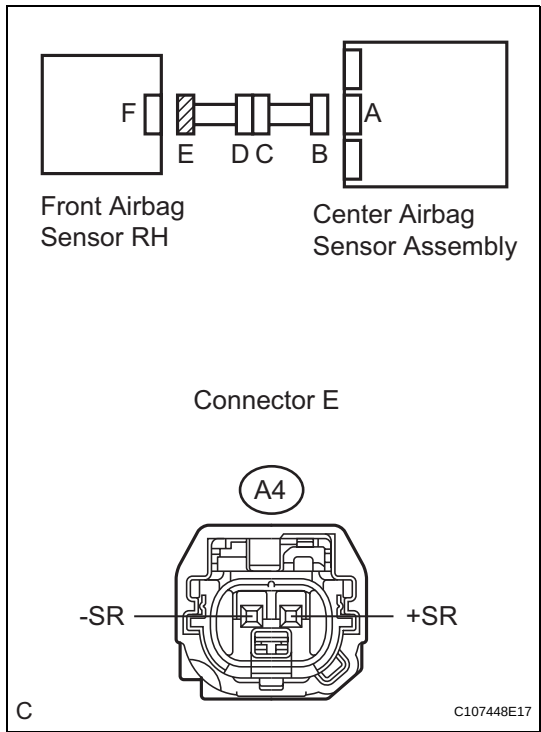
NG

Go to step 11

OK

7

CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT TO B+)



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the engine switch on (IG).
(c) Measure the voltage according to the value(s) in the table below.

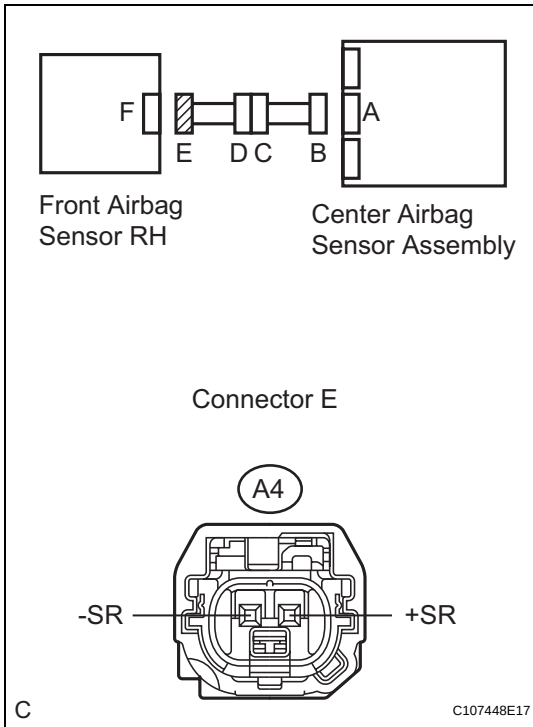
Standard voltage

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - Body ground	Engine switch on (IG)	Below 1 V
A4-1 (-SR) - Body ground	Engine switch on (IG)	Below 1 V

NG

Go to step 12

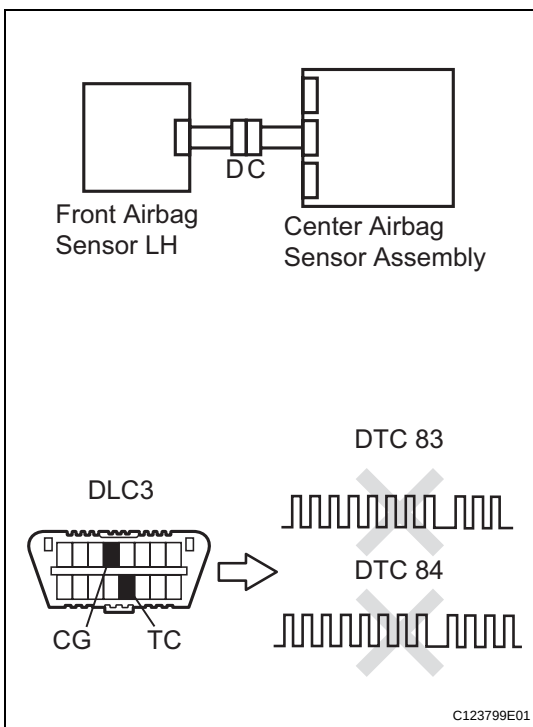
OK

8**CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT TO GROUND)**

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - Body ground	Always	1 MΩ or higher
A4-1 (-SR) - Body ground	Always	1 MΩ or higher

NG**Go to step 13****OK****9****CHECK FRONT AIRBAG SENSOR RH**

- Connect the connectors to the center airbag sensor assembly.
- Interchange the front airbag sensor LH with RH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1603, B1612, B1613, or 83 is output.	A
DTC B1608, B1617, B1618, or 84 is output.	B
DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 are not output.	C

HINT:

Codes other than DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 may be output at this time, but they are not related to this check.

RS

c

A

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

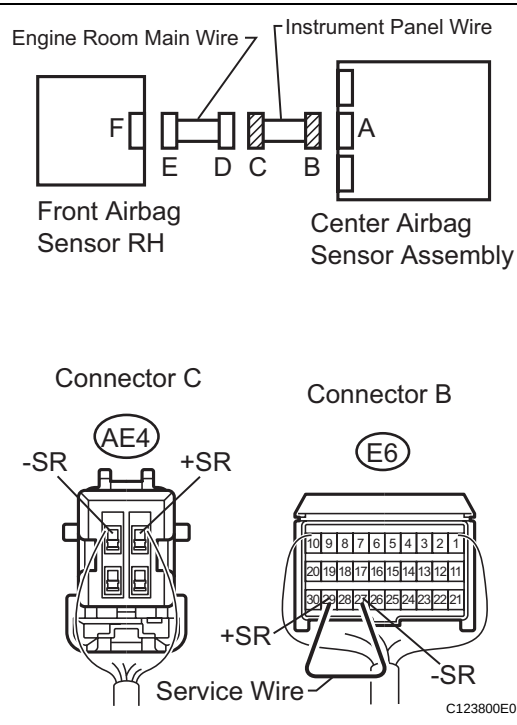
B

REPLACE FRONT AIRBAG SENSOR RH (See page RS-473)

USE SIMULATION METHOD TO CHECK (See page RS-37)

10

CHECK INSTRUMENT PANEL WIRE (OPEN)



(a) Disconnect the instrument panel wire connector from the engine room main wire.

HINT:

The service wire has already been inserted into connector B.

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

Standard resistance

Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - AE4-1 (-SR)	Always	Below 1 Ω

NG

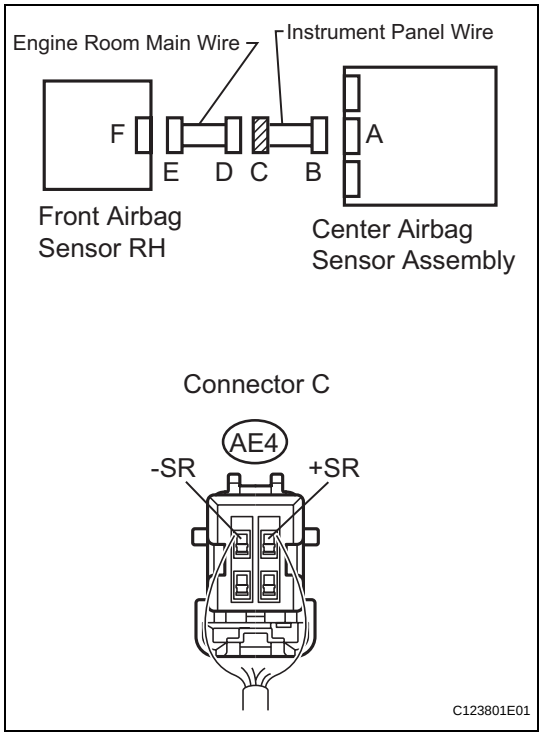
REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

11 CHECK INSTRUMENT PANEL WIRE (SHORT)

RS



- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - AE4-1 (-SR)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

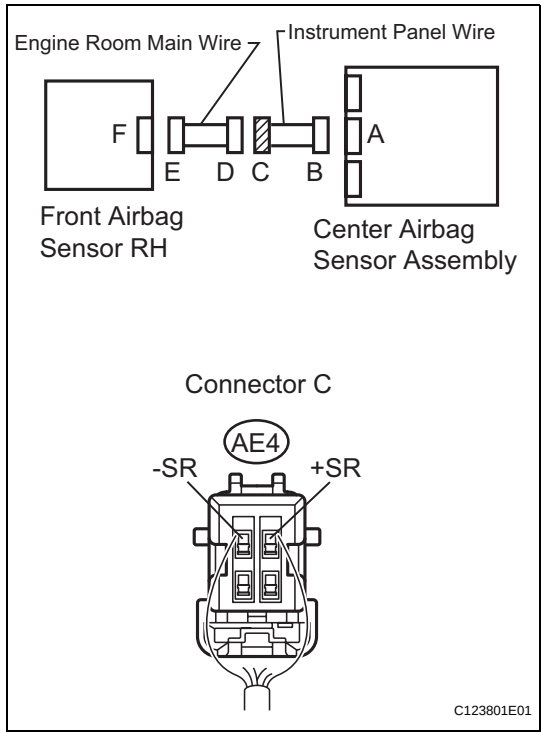
OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

12

CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

RS



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the instrument panel wire connector from the engine room main wire.
- (d) Connect the negative (-) terminal cable to battery, and wait for at least 2 seconds.
- (e) Turn the engine switch on (IG).
- (f) Measure the voltage according to the value(s) in the table below.

Standard voltage

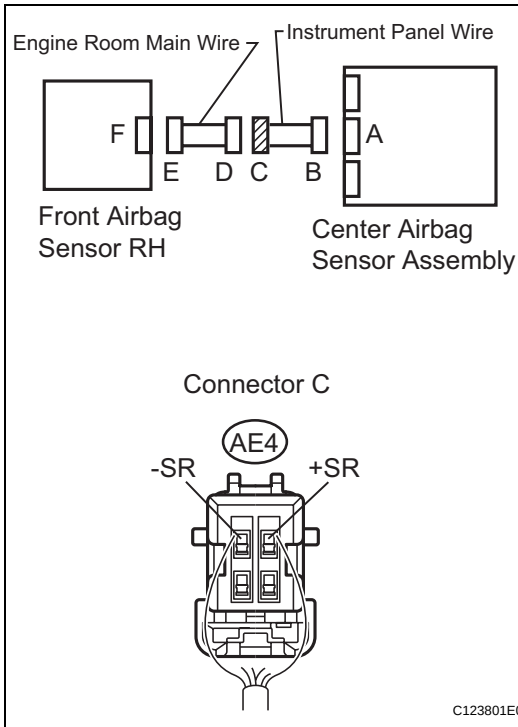
Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - Body ground	Engine switch on (IG)	Below 1 V
AE4-1 (-SR) - Body ground	Engine switch on (IG)	Below 1 V

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

13 CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)

- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

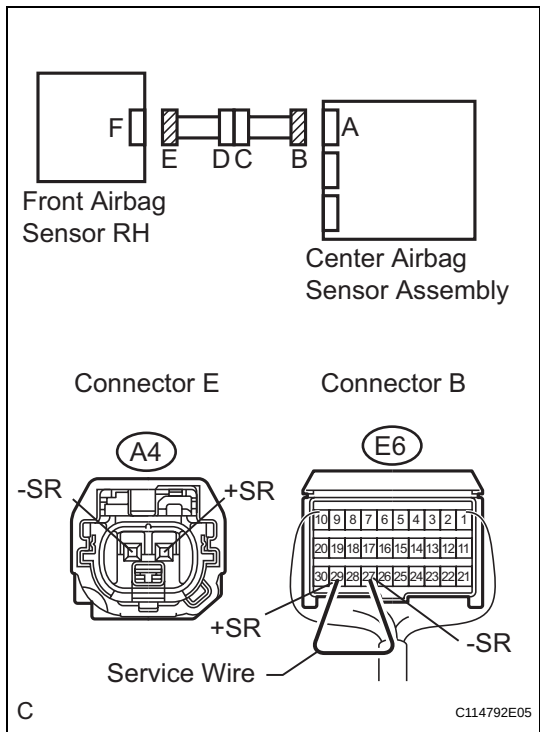
Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - Body ground	Always	1 M Ω or higher
AE4-1 (-SR) - Body ground	Always	1 M Ω or higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****RS**

RS

14

CHECK FRONT AIRBAG SENSOR RH (OPEN)



- (a) Using a service wire, connect terminals 29 (+SR) and 27 (-SR) of connector B.

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - A4-1 (-SR)	Always	Below 1 Ω

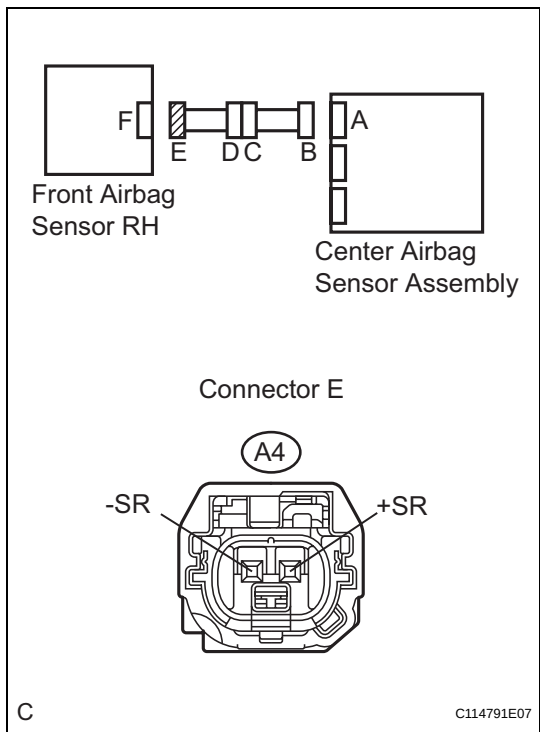
NG

Go to step 19

OK

15

CHECK FRONT AIRBAG SENSOR RH (SHORT)



- (a) Disconnect the service wire from connector B.
(b) Measure the resistance according to the value(s) in the table below.

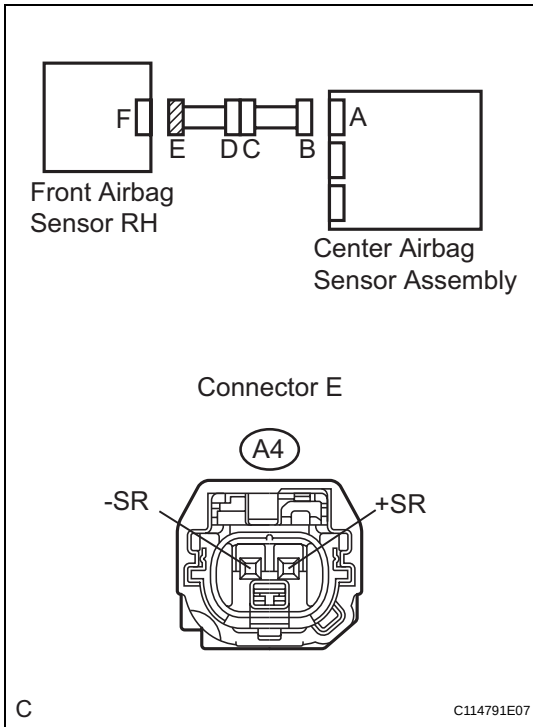
Standard resistance

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - A4-1 (-SR)	Always	1 MΩ or higher

NG

Go to step 20

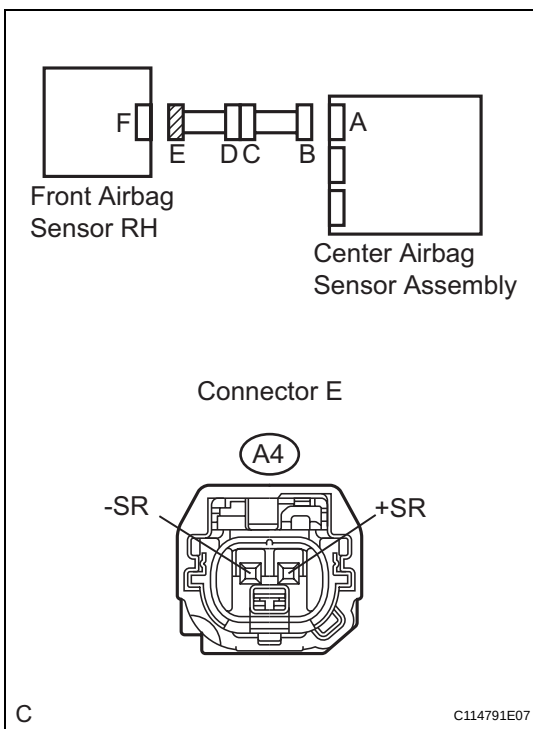
OK

16 CHECK FRONT AIRBAG SENSOR RH (SHORT TO B+)

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
A4-2 (+SR) - Body ground	Engine switch on (IG)	Below 1 V
A4-1 (-SR) - Body ground	Engine switch on (IG)	Below 1 V

NG**Go to step 21****OK****17 CHECK FRONT AIRBAG SENSOR RH (SHORT TO GROUND)**

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

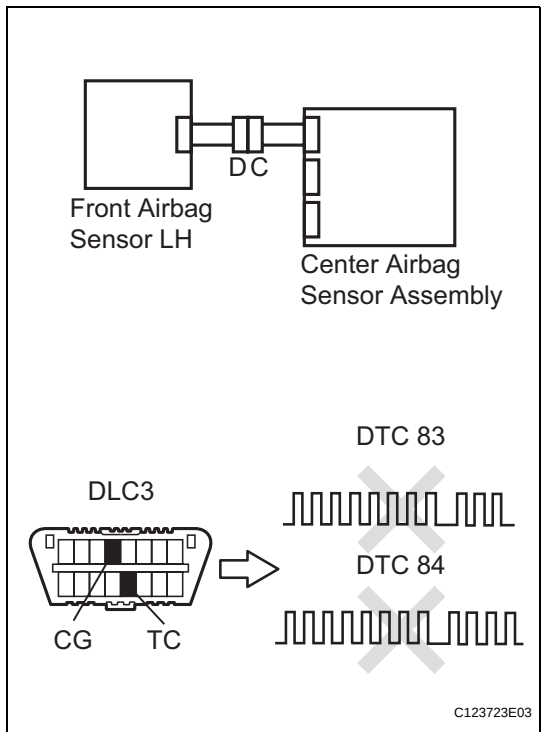
Tester Connection	Condition	Specified Condition
A4-2 (+SR) - Body ground	Always	1 MΩ or higher
A4-1 (-SR) - Body ground	Always	1 MΩ or higher

NG**Go to step 22****OK**

18

CHECK FRONT AIRBAG SENSOR RH

RS



- (a) Connect the connectors to the center airbag sensor assembly.
- (b) Interchange the front airbag sensor LH with RH and connect the connectors to them.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in the memory (See page RS-49).
- (f) Turn the engine switch off.
- (g) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1603, B1612, B1613, or 83 is output.	A
DTC B1608, B1617, B1618, or 84 is output.	B
DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 are not output.	C

HINT:
Codes other than DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 may be output at this time, but they are not related to this check.

- A

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)
- B

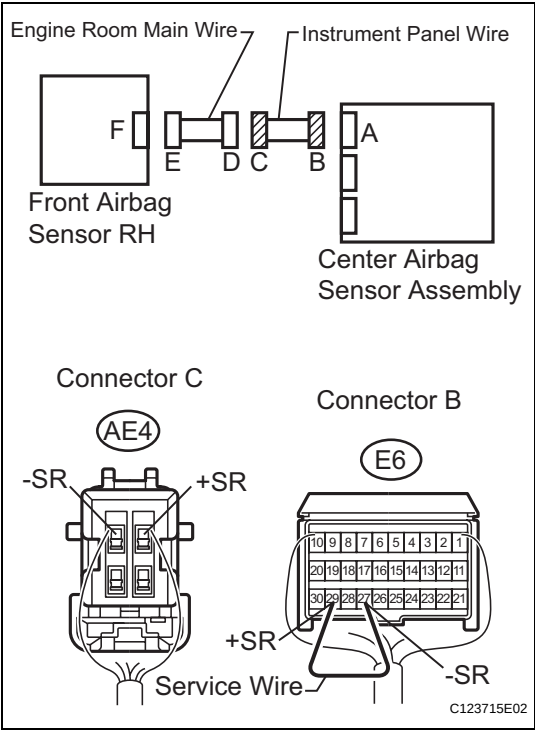
REPLACE FRONT AIRBAG SENSOR RH (See page RS-473)

C

USE SIMULATION METHOD TO CHECK (See page RS-37)

19 CHECK INSTRUMENT PANEL WIRE (OPEN)

RS



(a) Disconnect the instrument panel wire connector from the engine room main wire.

HINT:

The service wire has already been inserted into connector B.

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

Standard resistance

Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - AE4-1 (-SR)	Always	Below 1 Ω

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

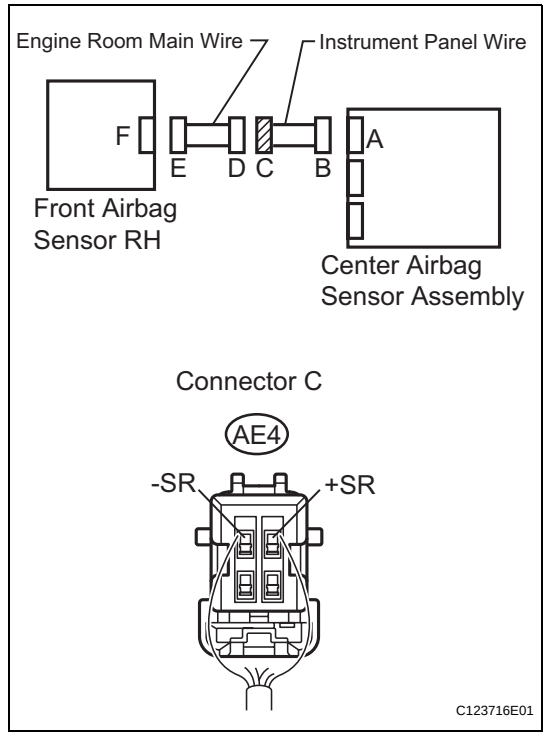
OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

20

CHECK INSTRUMENT PANEL WIRE (SHORT)

RS



OK

- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

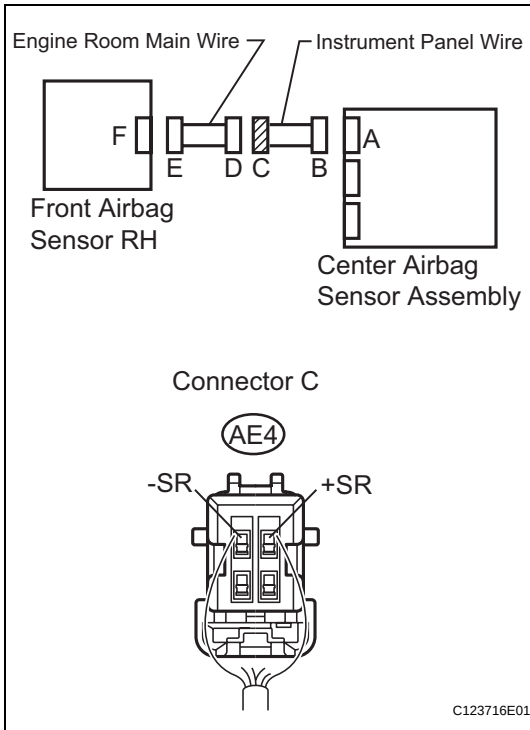
Standard resistance

Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - AE4-1 (-SR)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

21 CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the engine room main wire.
- Connect the negative (-) terminal cable to battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard voltage

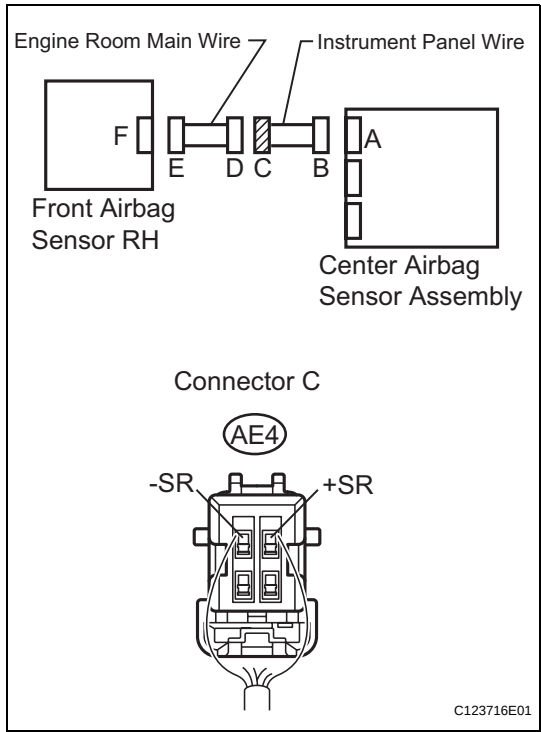
Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - Body ground	Engine switch on (IG)	Below 1 V
AE4-1 (-SR) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****RS**

22

CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)

RS



OK

- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
AE4-2 (+SR) - Body ground	Always	1 MΩ or higher
AE4-1 (-SR) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

DTC	B1608/84	Front Satellite Sensor Bus LH Initialization Incomplete
DTC	B1617/84	Lost Communication with Front Airbag Sensor LH
DTC	B1618/84	Front Airbag Sensor LH Initialization Incomplete

RS

DESCRIPTION

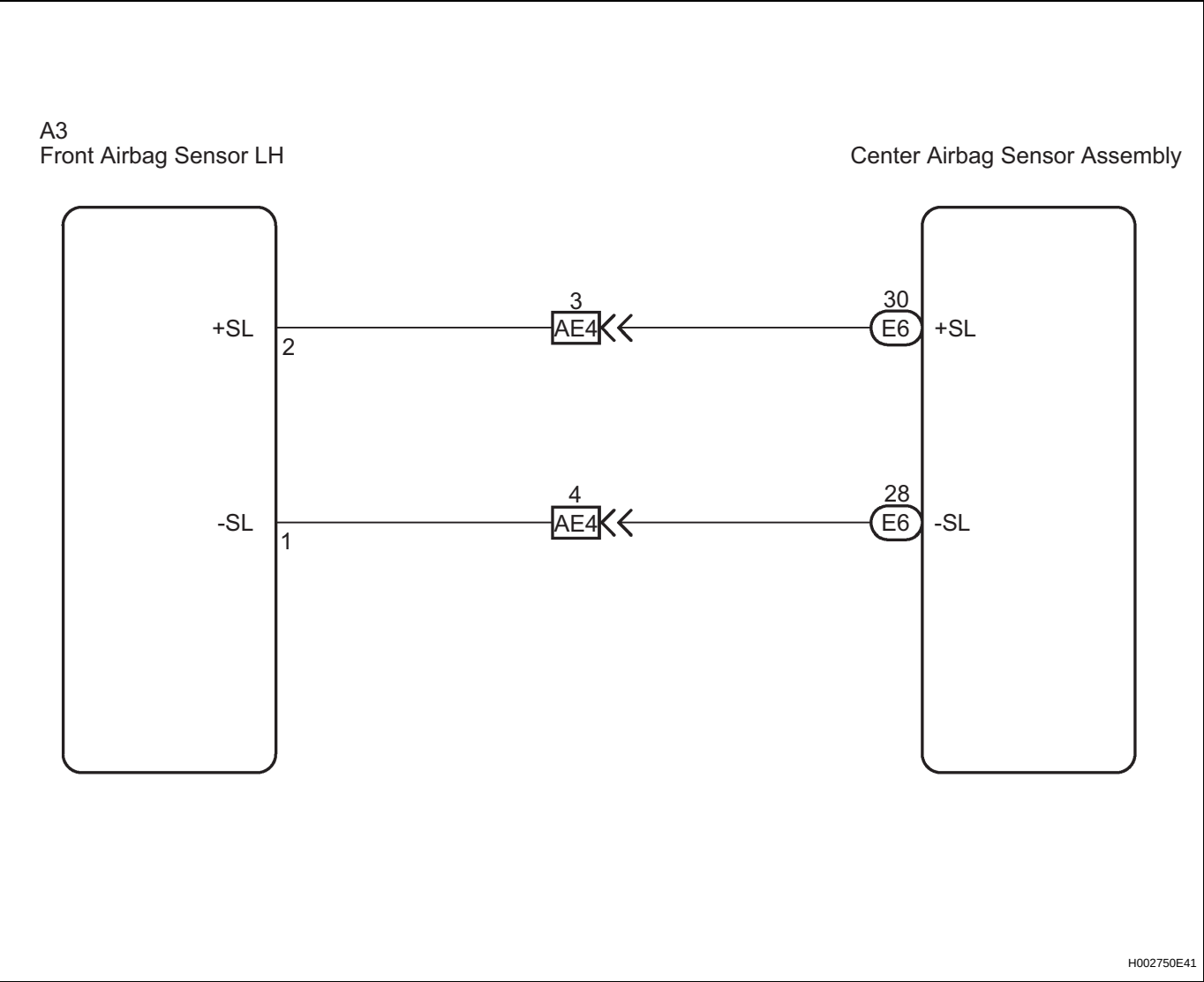
The front airbag sensor LH circuit consists of the center airbag sensor assembly and front airbag sensor LH.

The front airbag sensor LH detects impacts to the vehicle and sends signals to the center airbag sensor assembly to determine if the airbag should be deployed.

DTC B1608/84, B1617/84, or B1618/84 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1608/84 B1617/84 B1618/84	- 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 front airbag sensor LH circuit for 2 seconds. - Front airbag sensor LH malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Engine room main wire - Front airbag sensor LH - Center airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC	
	(a) Turn the engine switch on (IG), and wait for at least 60 seconds.	
	(b) Turn the engine switch off.	
	HINT:	
	If a communication error occurs, DTCs for both the LH and RH sides will be stored simultaneously. To identify the malfunctioning area, turn the engine switch off and then on (IG) again.	
	(c) Turn the engine switch on (IG), and wait for at least 60 seconds.	
	(d) Check the DTCs (See page RS-49).	
	Result	
	Result	Proceed to
	DTC B1608, B1618, or 84 is output.	A

Result	Proceed to
DTC B1613/83 is output.	B
DTC B1608, B1618, or 84 and B1613/83 are not output.	C

HINT:

- DTCs indicating communication errors will be changed to DTCs indicating errors in initialization by turning the engine switch off and then on (IG) again.
- Codes other than DTC B1608, B1618, or 84 and B1613/83 may be output at this time, but they are not related to this check.

B

GO TO DTC B1613/83 (See page [RS-61](#))

C

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

A

2

CHECK CONNECTION OF CONNECTORS

- Turn the engine switch off.
- 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 airbag sensor LH.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY

OK

3

CHECK CONNECTORS

- Disconnect the connectors from the center airbag sensor assembly and front airbag sensor LH.
- Check that the connectors (on the center airbag sensor assembly side and front airbag sensor LH side) are not damaged.

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

4

CHECK VEHICLE CONDITION

- Check whether or not the vehicle is equipped with the rear side airbag.

RS

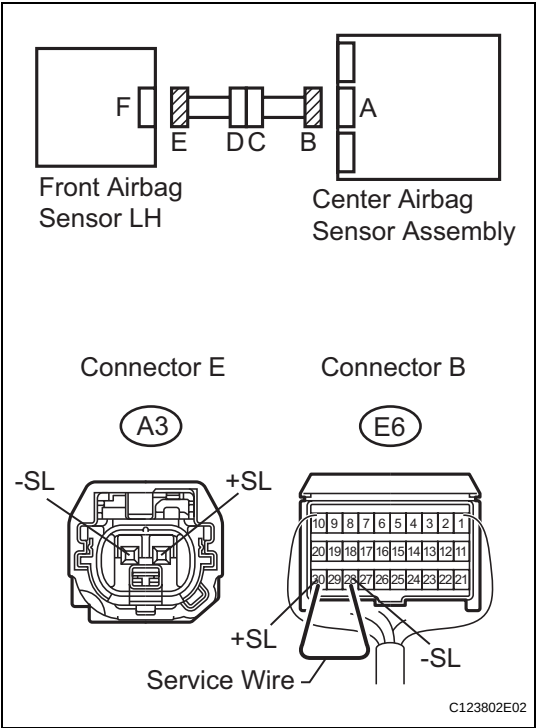
RS

Result:
A:
with the rear side airbag
B:
without the rear side airbag

A

B Go to step 14

5 CHECK FRONT AIRBAG SENSOR LH (OPEN)



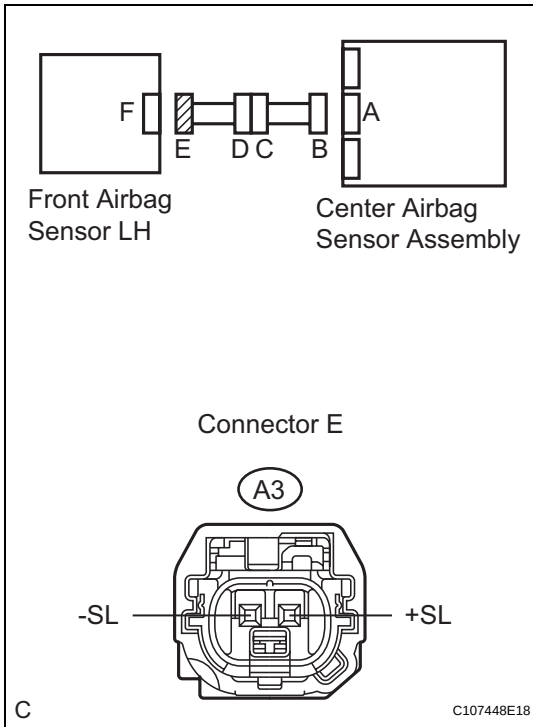
- (a) Using a service wire, connect terminals 30 (+SL) and 28 (-SL) of connector B.
- NOTICE:**
Do not forcibly insert a service wire into the terminals of the connector when connecting the wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
A3-2 (+SL) - A3-1 (-SL)	Always	Below 1 Ω

NG Go to step 10

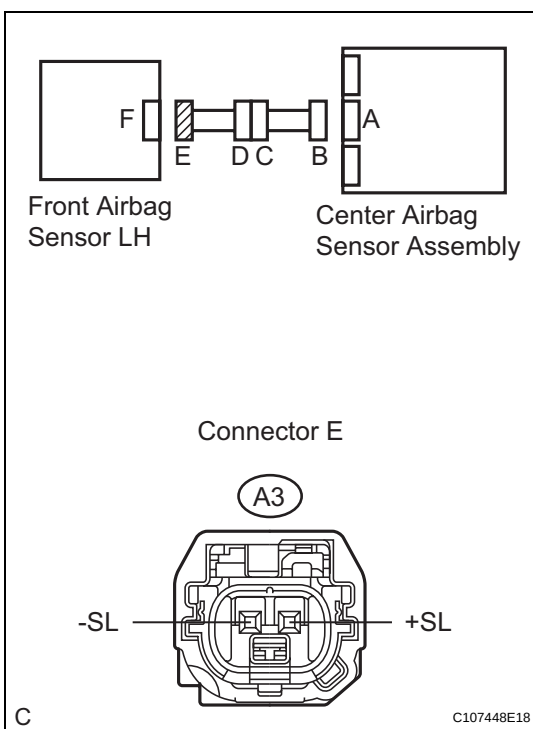
OK

6 CHECK FRONT AIRBAG SENSOR LH (SHORT)

- (a) Disconnect the service wire from connector B.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
A3-2 (+SL) - A3-1 (-SL)	Always	1 M Ω or higher

NG**Go to step 11****OK****7 CHECK FRONT AIRBAG SENSOR LH (SHORT TO B+)**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 (b) Turn the engine switch on (IG).
 (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

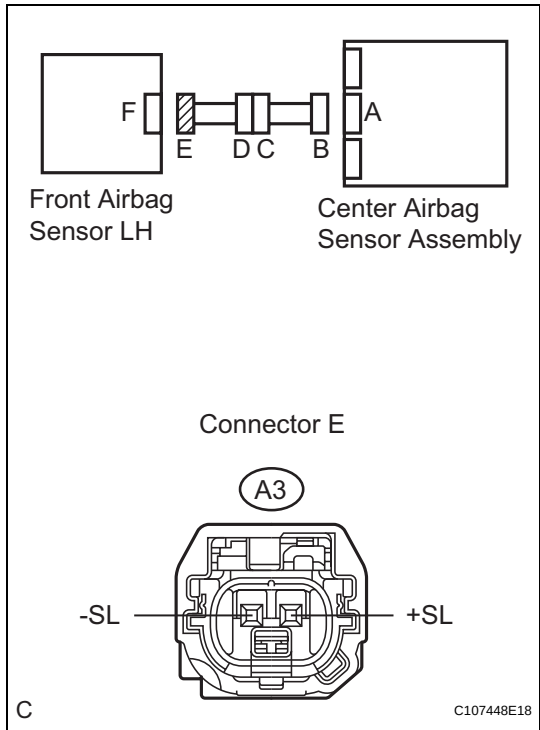
Tester Connection	Condition	Specified Condition
A3-2 (+SL) - Body ground	Engine switch on (IG)	Below 1 V
A3-1 (-SL) - Body ground	Engine switch on (IG)	Below 1 V

NG**Go to step 12****OK****RS**

8

CHECK FRONT AIRBAG SENSOR LH (SHORT TO GROUND)

RS



OK

- (a) Turn the engine switch off.
- (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

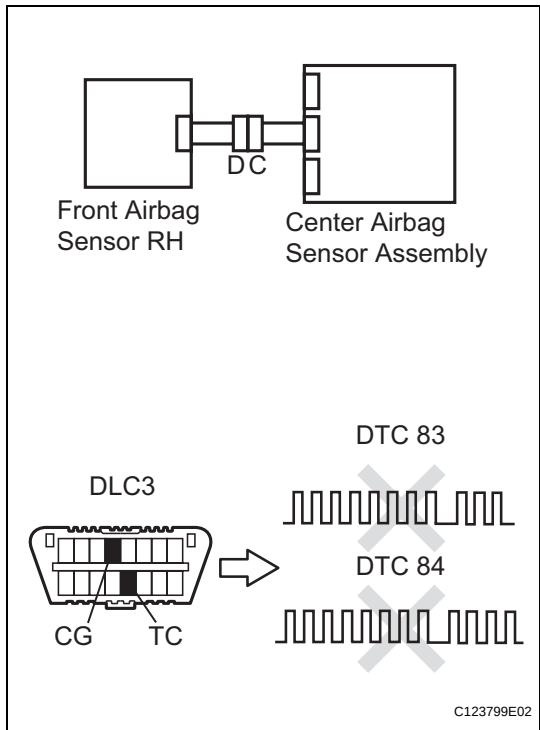
Tester Connection	Condition	Specified Condition
A3-2 (+SL) - Body ground	Always	1 MΩ or higher
A3-1 (-SL) - Body ground	Always	1 MΩ or higher

NG

Go to step 13

9

CHECK FRONT AIRBAG SENSOR LH



- (a) Connect the connectors to the center airbag sensor assembly.
- (b) Interchange the front airbag sensor RH with LH and connect the connectors to them.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in the memory (See page RS-49).
- (f) Turn the engine switch off.
- (g) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1608, B1617, B1618, or 84 is output.	A
DTC B1603, B1612, B1613, or 83 is output.	B
DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 are not output.	C

HINT:

Codes other than DTC B1608, B1617, B1618, or 84 and B1603, B1612, B1613, or 83 may be output at this time, but they are not related to this check.

A

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

B

REPLACE FRONT AIRBAG SENSOR LH (See page [RS-473](#))

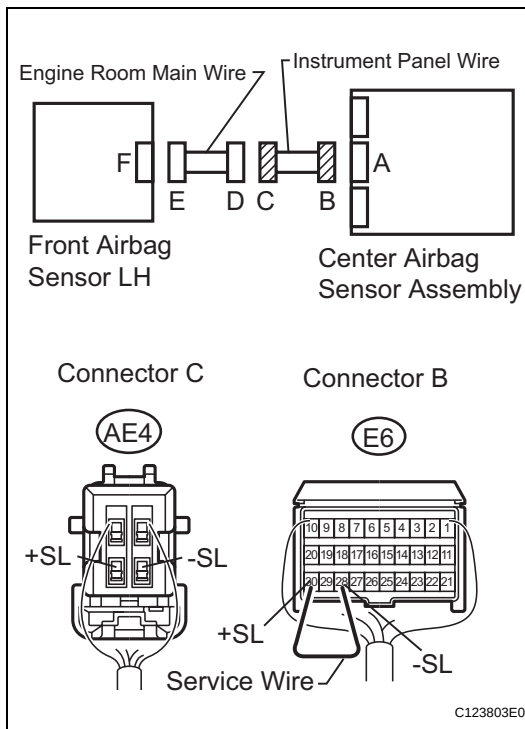
C

RS

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

10

CHECK INSTRUMENT PANEL WIRE (OPEN)



- (a) Disconnect the instrument panel wire connector from the engine room main wire.

HINT:

The service wire has already been inserted into connector B.

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

Standard resistance

Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - AE4-4 (-SL)	Always	Below 1 Ω

NG

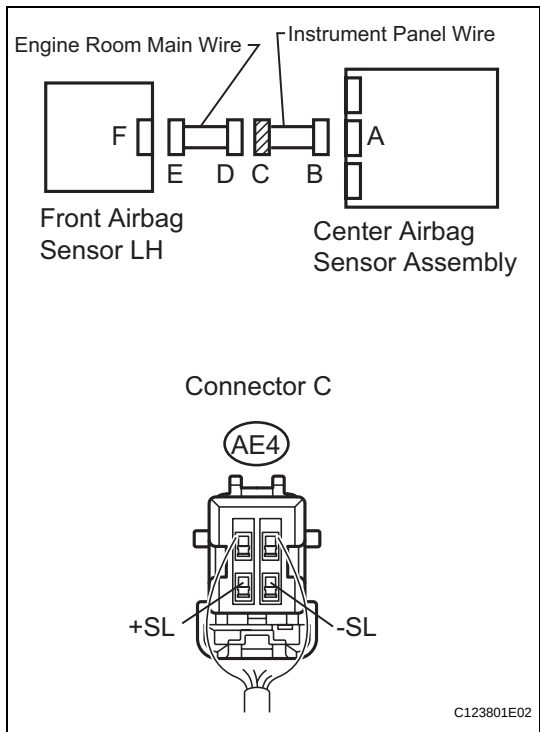
REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

11

CHECK INSTRUMENT PANEL WIRE (SHORT)



- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

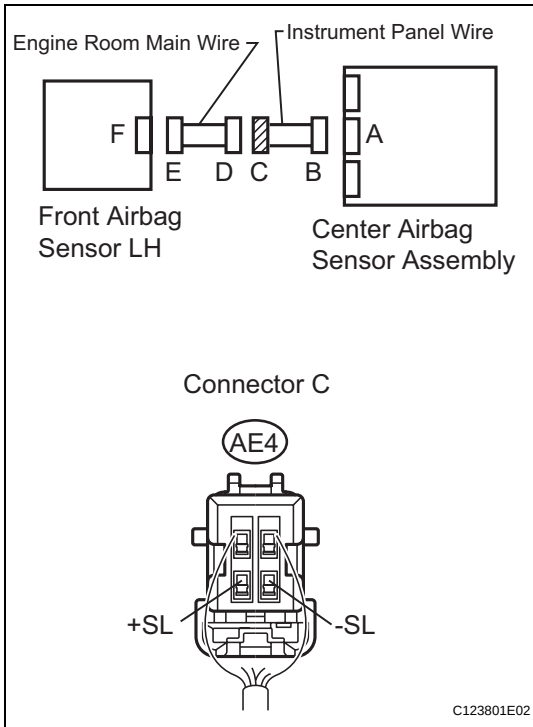
Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - AE4-4 (-SL)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

12 CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the engine room main wire.
- Connect the negative (-) terminal cable to battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard voltage

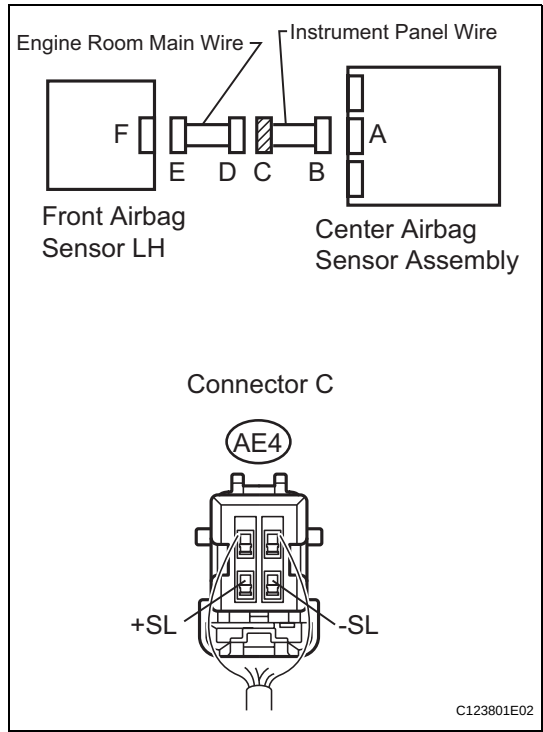
Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - Body ground	Engine switch on (IG)	Below 1 V
AE4-4 (-SL) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****RS**

13

CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)

RS



- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

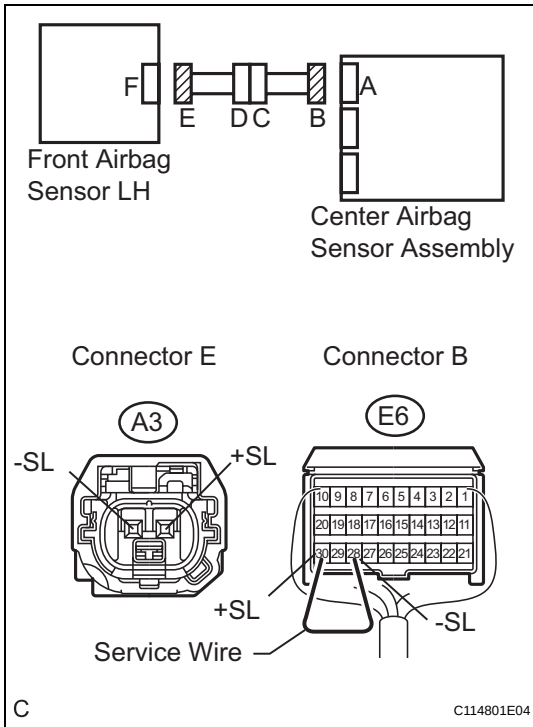
Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - Body ground	Always	1 MΩ or higher
AE4-4 (-SL) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

14 CHECK FRONT AIRBAG SENSOR LH (OPEN)

- (a) Using a service wire, connect terminals 30 (+SL) and 28 (-SL) of connector B.

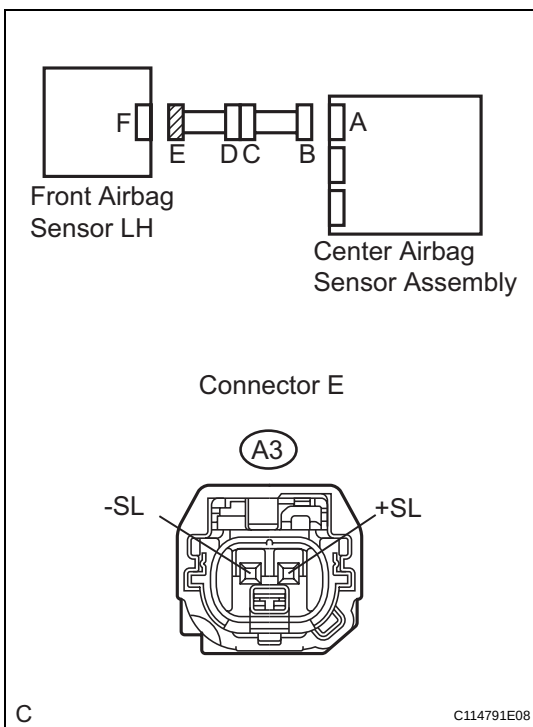
NOTICE:

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
A3-2 (+SL) - A3-1 (-SL)	Always	Below 1 Ω

NG**Go to step 19****OK****15 CHECK FRONT AIRBAG SENSOR LH (SHORT)**

- (a) Disconnect the service wire from connector B.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

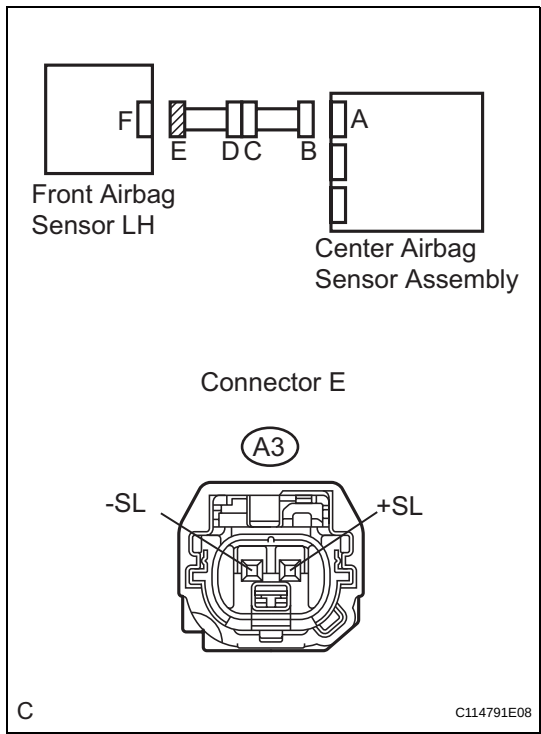
Tester Connection	Condition	Specified Condition
A3-2 (+SL) - A3-1 (-SL)	Always	1 M Ω or higher

NG**Go to step 20****OK**

RS

16

CHECK FRONT AIRBAG SENSOR LH (SHORT TO B+)



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
A3-2 (+SL) - Body ground	Engine switch on (IG)	Below 1 V
A3-1 (-SL) - Body ground	Engine switch on (IG)	Below 1 V

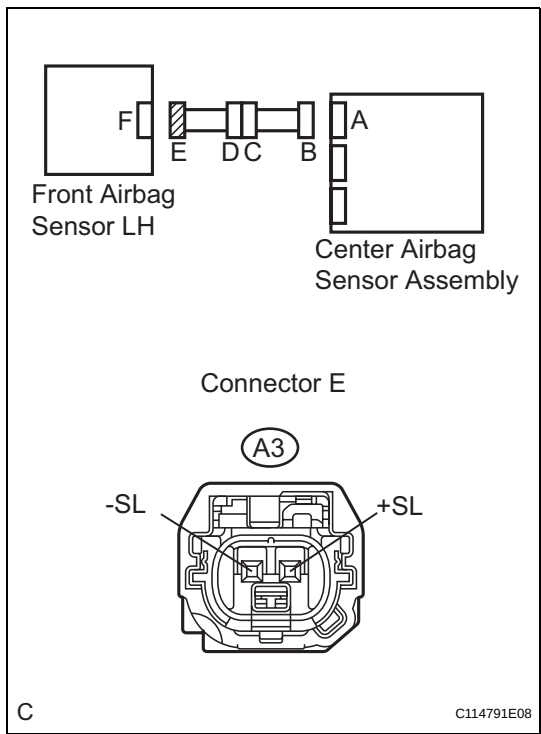
NG

Go to step 21

OK

17

CHECK FRONT AIRBAG SENSOR LH (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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.

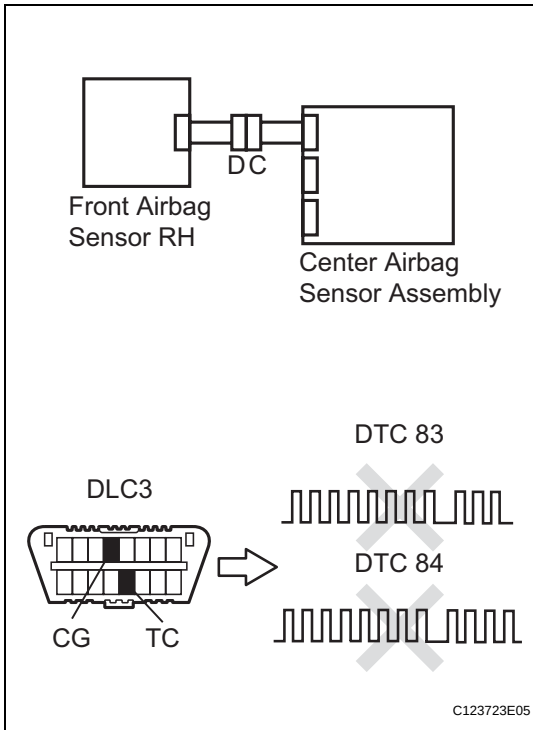
Standard resistance

Tester Connection	Condition	Specified Condition
A3-2 (+SL) - Body ground	Always	1 MΩ or higher
A3-1 (-SL) - Body ground	Always	1 MΩ or higher

NG

Go to step 22

OK

18 CHECK FRONT AIRBAG SENSOR LH

- Connect the connectors to the center airbag sensor assembly.
- Interchange the front airbag sensor RH with LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1608, B1617, B1618, or 84 is output.	A
DTC B1603, B1612, B1613, or 83 is output.	B
DTC B1603, B1612, B1613, or 83 and B1608, B1617, B1618, or 84 are not output.	C

HINT:

Codes other than DTC B1608, B1617, B1618, or 84 and B1603, B1612, B1613, or 83 may be output at this time, but they are not related to this check.

A

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

B

REPLACE FRONT AIRBAG SENSOR LH (See page RS-473)

C

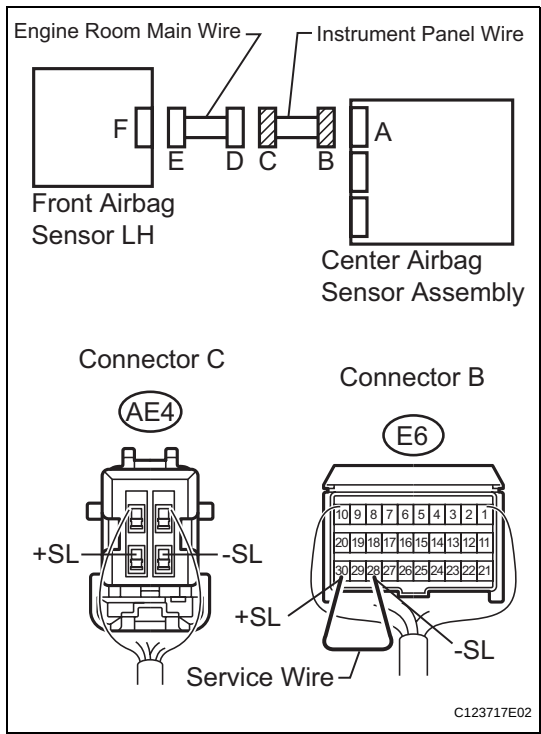
USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

19

CHECK INSTRUMENT PANEL WIRE (OPEN)

RS



- (a) Disconnect the instrument panel wire connector from the engine room main wire.
HINT:
The service wire has already been inserted into connector B.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

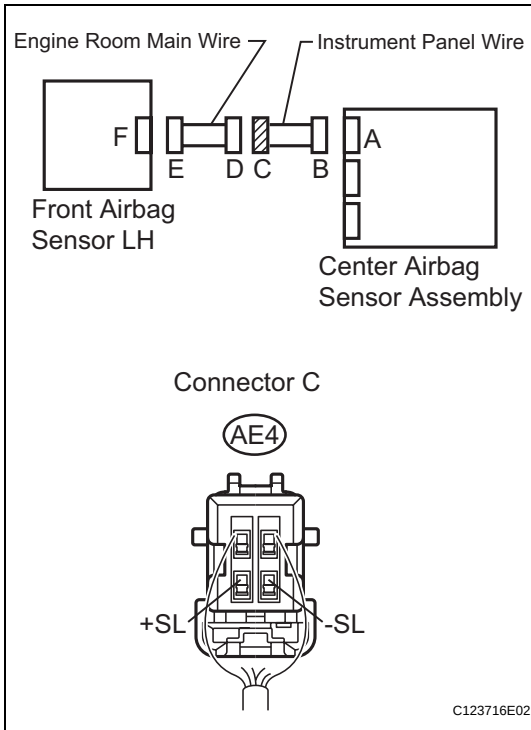
Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - AE4-4 (-SL)	Always	Below 1 Ω

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

20 CHECK INSTRUMENT PANEL WIRE (SHORT)

- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

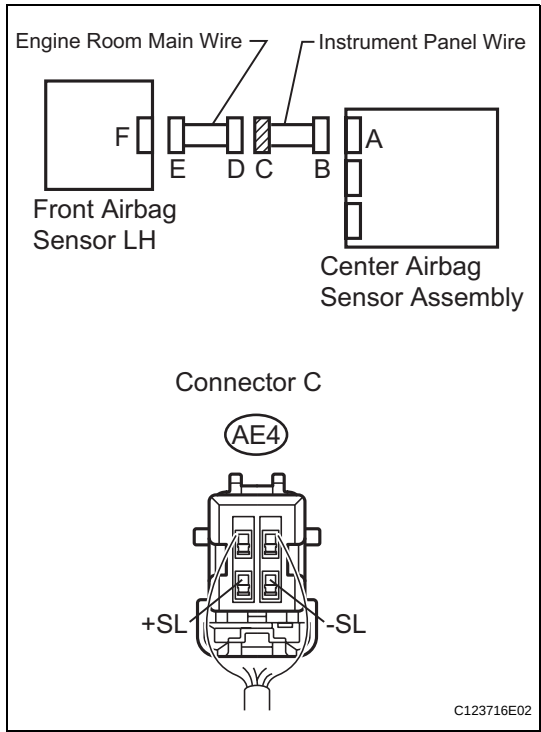
Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - AE4-4 (-SL)	Always	1 M Ω or higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****RS**

21

CHECK INSTRUMENT PANEL WIRE (SHORT TO B+)

RS



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the instrument panel wire connector from the engine room main wire.
- (d) Connect the negative (-) terminal cable to battery, and wait for at least 2 seconds.
- (e) Turn the engine switch on (IG).
- (f) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - Body ground	Engine switch on (IG)	Below 1 V
AE4-4 (-SL) - Body ground	Engine switch on (IG)	Below 1 V

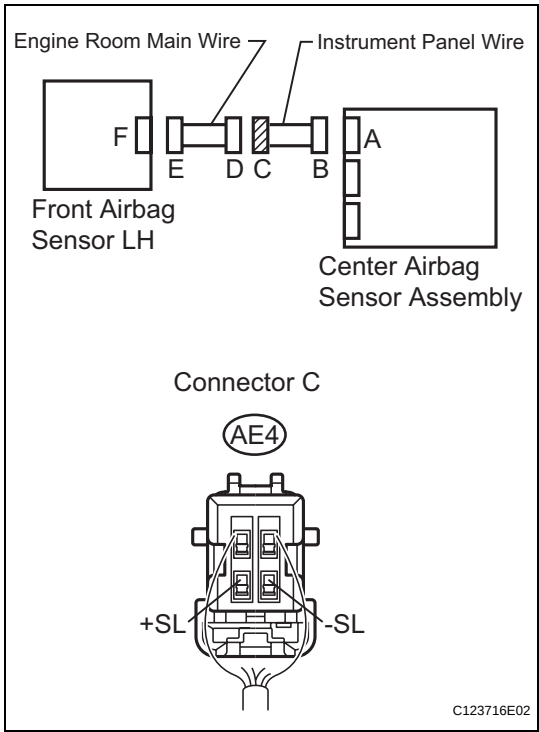
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

22 CHECK INSTRUMENT PANEL WIRE (SHORT TO GROUND)



- (a) Disconnect the instrument panel wire connector from the engine room main wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
AE4-3 (+SL) - Body ground	Always	1 MΩ or higher
AE4-4 (-SL) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

RS

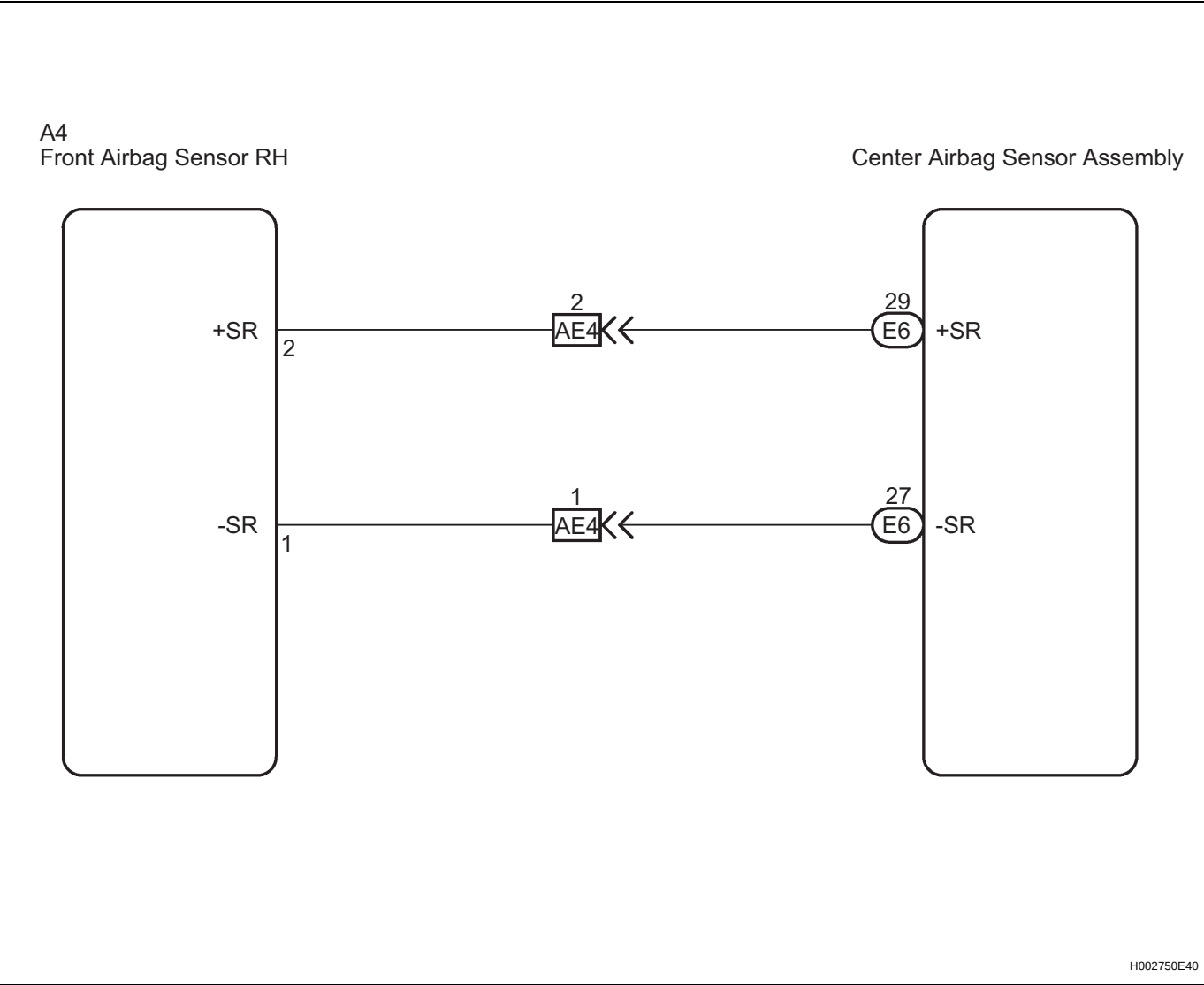
DTC	B1610/13	Front Airbag Sensor RH Malfunction
-----	----------	------------------------------------

DESCRIPTION

The front airbag sensor RH consists of the diagnostic circuit, the frontal deceleration sensor, etc. If the center airbag sensor assembly receives signals from the frontal deceleration sensor, it determines whether the SRS should be activated. DTC B1610/13 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1610/13	- Front airbag sensor RH malfunction - Center airbag sensor assembly malfunction	- Front airbag sensor RH - Center airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR RH
---	------------------------------

(a) Turn the engine switch off.

- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Interchange the front airbag sensor LH with RH and connect the connectors to them.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in the memory (See page [RS-49](#)).
- (g) Turn the engine switch off.
- (h) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (See page [RS-49](#)).

Result

Result	Proceed to
DTC B1610/13 is output.	A
DTC B1615/14 is output.	B
DTC B1610/13 and B1615/14 are not output.	C

HINT:

Codes other than DTC B1610/13 and B1615/14 may be output at this time, but they are not related to this check.

A**REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))****B****REPLACE FRONT AIRBAG SENSOR RH (See page [RS-473](#))****C****USE SIMULATION METHOD TO CHECK (See page [RS-37](#))****RS**

RS

DTC	B1622/81	Lost Communication with Driver Side - Side Airbag Sensor Assembly
DTC	B1623/81	Driver Side - Side Airbag Sensor Assembly Initialization Incomplete
DTC	B1632/81	Lost Communication with Driver Side Rear Airbag Sensor
DTC	B1633/81	Driver Side Rear Airbag Sensor Initialization Incomplete
DTC	B1642/81	Lost Communication with Driver Side Satellite Sensor Bus
DTC	B1643/81	Driver Side Satellite Sensor Bus Initialization Incomplete

DESCRIPTION

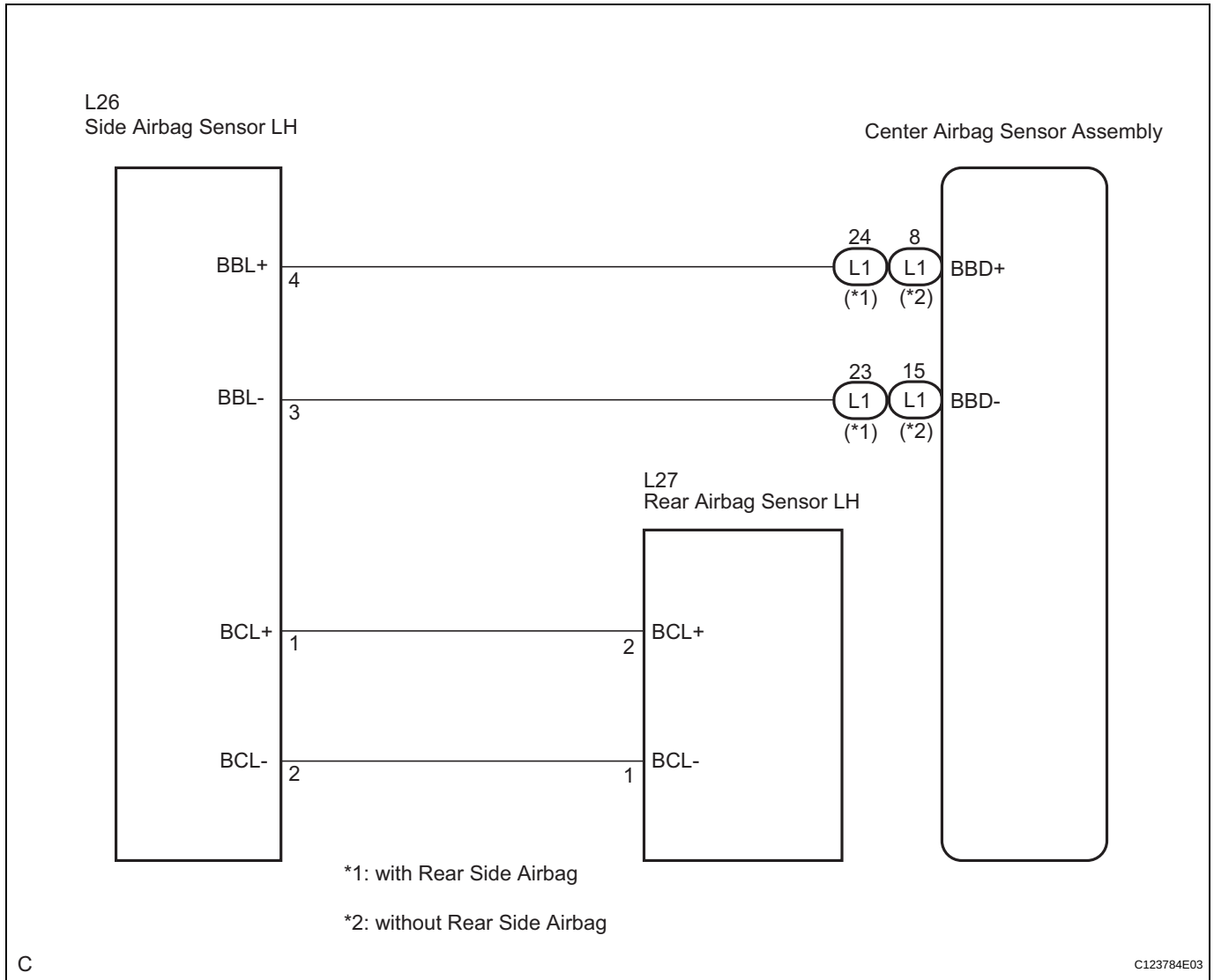
The circuit for the side collision sensor LH (to determine deployment of the front seat side airbag assembly LH and curtain shield airbag assembly LH) is composed of the center airbag sensor assembly, side airbag sensor LH, and rear airbag sensor LH.

The side airbag sensor LH and rear airbag sensor LH detect impacts to the vehicle and send signals to the center airbag sensor assembly to determine if the airbag should be deployed.

DTC B1622/81, B1623/81, B1632/81, B1633/81, B1642/81, or B1643/81 is recorded when a malfunction is detected in the circuit for the side collision sensor LH (to determine deployment of the front seat side airbag assembly LH and curtain shield airbag assembly LH).

DTC No.	DTC Detecting Condition	Trouble Area
1622/81 1623/81 1632/81 1633/81 1642/81 1643/81	- 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 circuit for the side collision sensor LH (to determine deployment of the front seat side airbag assembly LH and curtain shield airbag assembly LH) for 2 seconds. - Side airbag sensor LH malfunction - Rear airbag sensor LH malfunction - Center airbag sensor assembly malfunction	- Floor wire - Side airbag sensor LH - Rear airbag sensor LH - Center airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1**CHECK PRESENT DTC**

- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Turn the engine switch off.
HINT:
If a communication error occurs, DTCs for both the LH and RH sides will be stored simultaneously. To identify the malfunctioning area, turn the engine switch off and then on (IG) again.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the present DTCs (See page [RS-49](#)).

Result

Result	Proceed to
Present DTC B1623, B1633, B1643, or 81 is output.	A

RS

Result	Proceed to
Present DTC B1628, B1638, B1648, or 82 is output.	B
Present DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

HINT:

- DTCs indicating communication errors will be changed to DTCs indicating errors in initialization by turning the engine switch off and then on (IG) again.
- Codes other than present DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 may be output at this time, but they are not related to this check.

B

REPAIR CIRCUITS INDICATED BY OUTPUT DTCs

C

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

A

2

CHECK PAST DTC

- (a) Check the past DTCs (See page [RS-49](#)).

Result

Result	Proceed to
• Past DTC B1632, B1642, or 81 is output. • Past DTC B1622, B1632, B1642, or 81 is not output.	A
Past DTC B1622 is output.	B

HINT:

Codes other than past DTC B1622, B1632, B1642, or 81 may be output at this time, but they are not related to this check.

B

Go to step 27

A

3

CHECK CONNECTION OF CONNECTORS

- (a) Turn the engine switch off.
- (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 center airbag sensor assembly and the side airbag sensor LH.

OK:**The connectors are properly connected.**

NG

CONNECT CONNECTORS PROPERLY

OK

4

CHECK CONNECTORS

- (a) Disconnect the connectors from the center airbag sensor assembly and side airbag sensor LH.
- (b) Check that the connectors (on the center airbag sensor assembly side and side airbag sensor LH side) are not damaged.

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

OK

5

CHECK VEHICLE CONDITION

- (a) Check whether or not the vehicle is equipped with the rear side airbag.

Result:

A:

with the rear side airbag

B:

without the rear side airbag

B

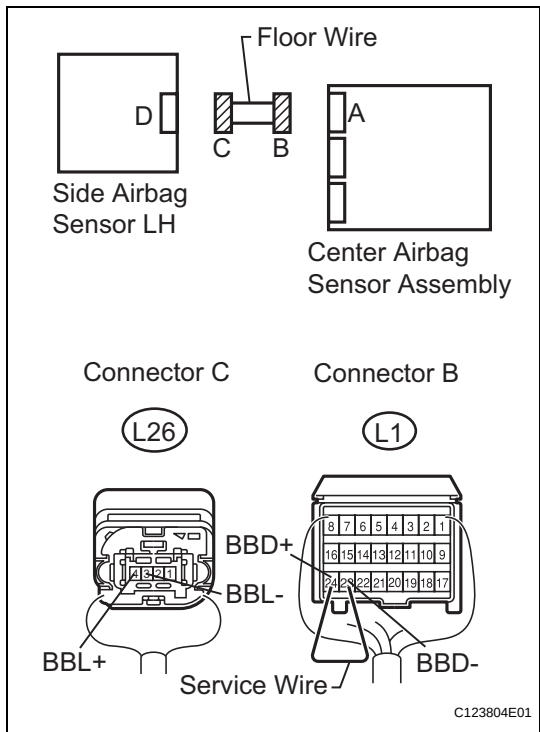
Go to step 12

A

RS

6

CHECK FLOOR WIRE (OPEN)



- (a) Using a service wire, connect terminals 24 (BBD+) and 23 (BBD-) of connector B.

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	Below 1 Ω

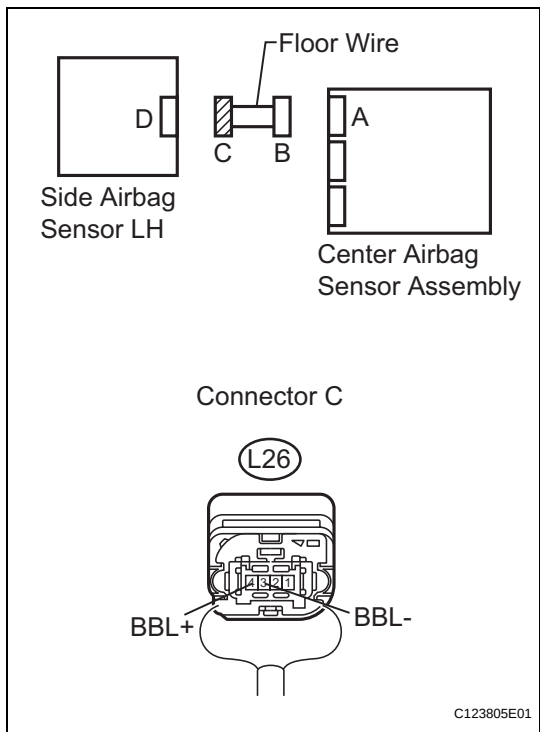
NG

REPAIR OR REPLACE FLOOR WIRE

OK

7

CHECK FLOOR WIRE (SHORT)



- (a) Disconnect the service wire from connector B.
- (b) Measure the resistance according to the value(s) in the table below.

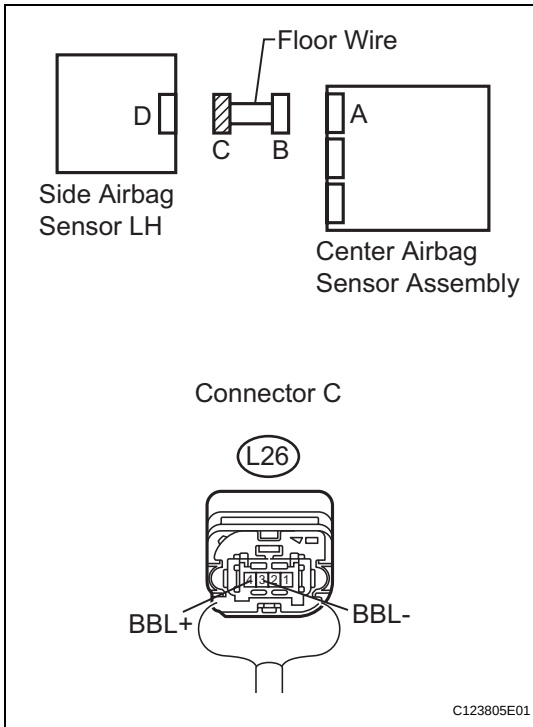
Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE

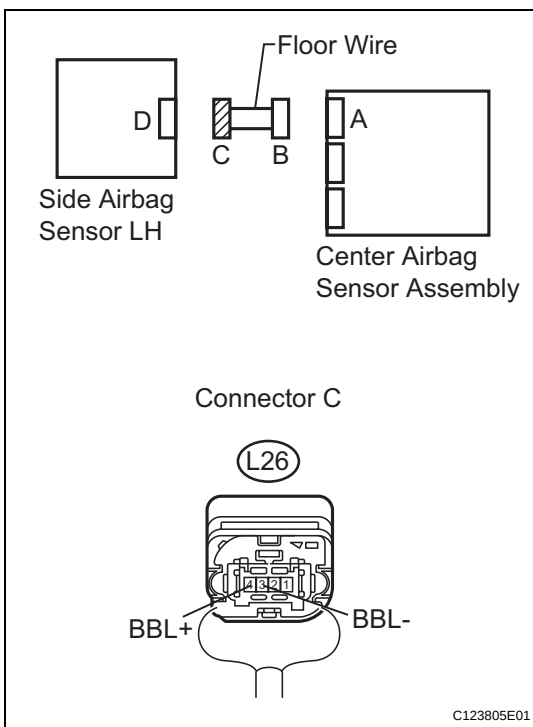
OK

8 CHECK FLOOR WIRE (SHORT TO B+)**OK**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - Body ground	Engine switch on (IG)	Below 1 V
L26-3 (BBL-) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE****9 CHECK FLOOR WIRE (SHORT TO GROUND)****OK**

- (a) Turn the engine switch off.
- (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
L26-4 (BBL+) - Body ground	Always	1 MΩ or higher
L26-3 (BBL-) - Body ground	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE**

10

CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR

RS

- (a) Check that the part number of the side airbag sensor LH is equal to the number of the other side.
- OK:**
Those numbers are the same.
- (b) Connect the connectors to the center airbag sensor assembly and the side airbag sensor LH.

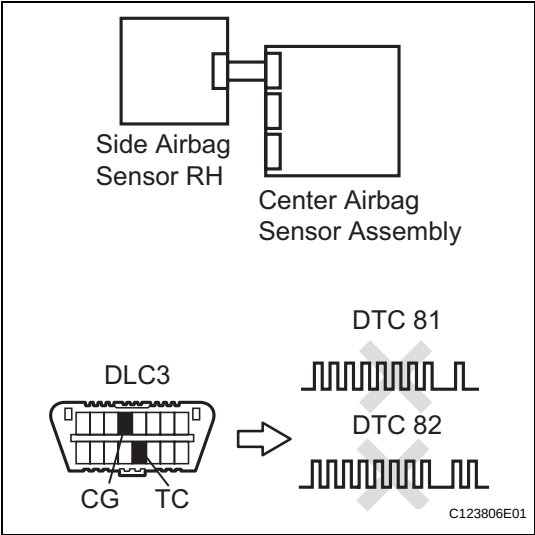
NG

Go to step 18

OK

11

CHECK SIDE AIRBAG SENSOR LH



- (a) Interchange the side airbag sensor RH with LH and connect the connectors to them.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the the memory (See page RS-49).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	A
DTC B1628, B1638, B1648, or 82 is output.	B
DTC B1623, B1633, B1643, or 81 is output.	C

- (h) Turn the engine switch off.
- (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (j) Return the side airbag sensor RH and LH to their original positions and connect the connectors to them.

B

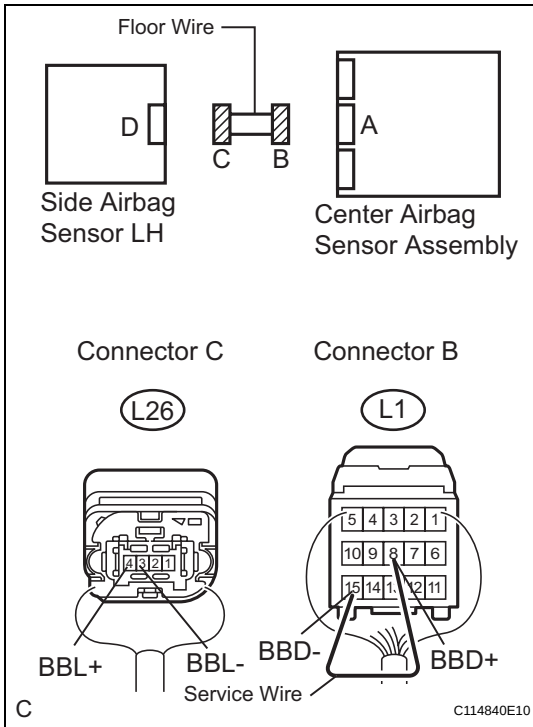
REPLACE SIDE AIRBAG SENSOR LH (See page RS-477)

C

Go to step 18

A

USE SIMULATION METHOD TO CHECK (See page RS-37)

12 CHECK FLOOR WIRE (OPEN)

- (a) Using a service wire, connect terminals 8 (BBD+) and 15 (BBD-) of connector B.

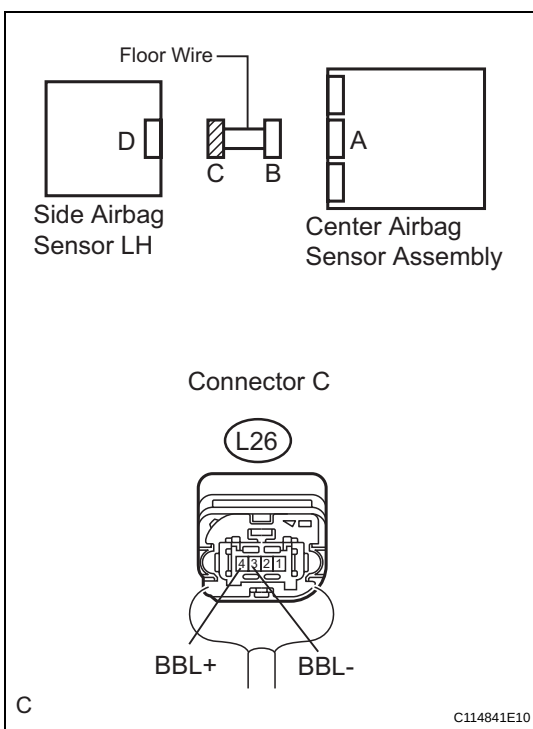
NOTICE:

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FLOOR WIRE****OK****13 CHECK FLOOR WIRE (SHORT)**

- (a) Disconnect the service wire from connector B.
(b) Measure the resistance according to the value(s) in the table below.

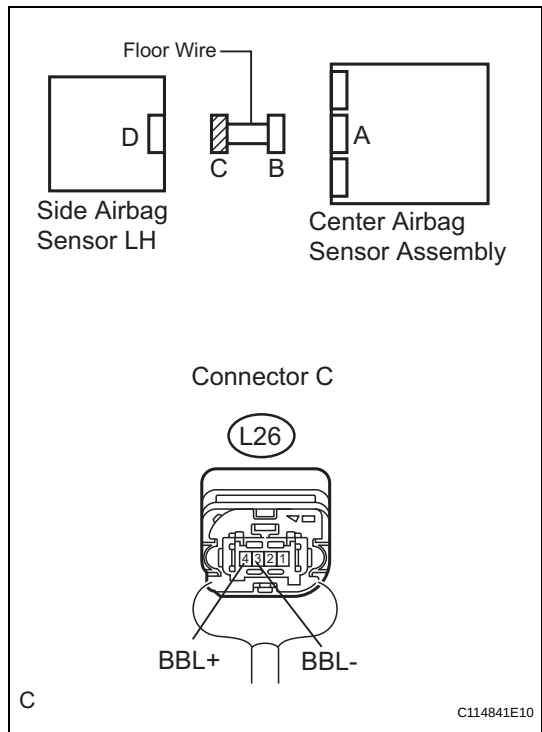
Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	1 M Ω or higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK**

RS

14 CHECK FLOOR WIRE (SHORT TO B+)



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

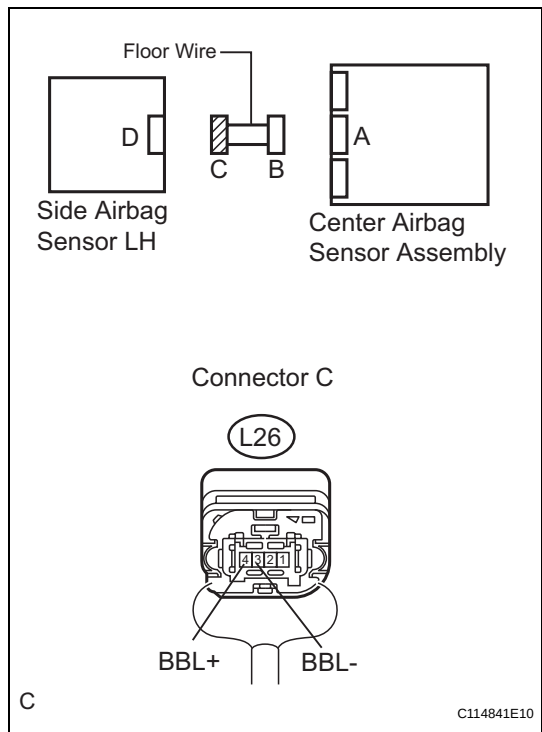
Standard voltage

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - Body ground	Engine switch on (IG)	Below 1 V
L26-3 (BBL-) - Body ground	Engine switch on (IG)	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

15 CHECK FLOOR WIRE (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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
L26-4 (BBL+) - Body ground	Always	1 MΩ or higher
L26-3 (BBL-) - Body ground	Always	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

16 CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR

- (a) Check that the part number of the side airbag sensor LH is equal to the number of the other side.

OK:

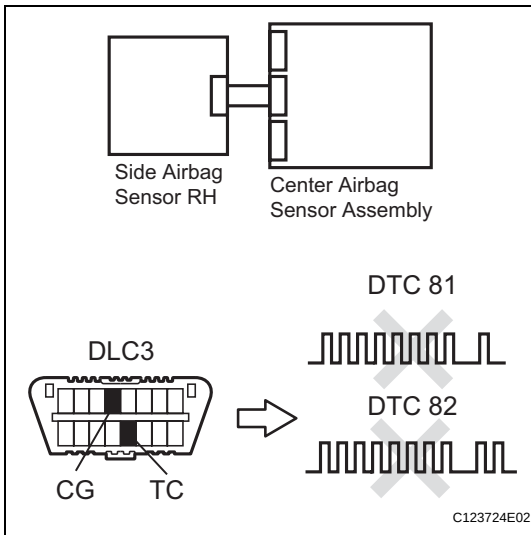
Those numbers are the same.

- (b) Connect the connectors to the center airbag sensor assembly and the side airbag sensor LH.

NG

Go to step 18

OK

17 CHECK SIDE AIRBAG SENSOR LH

- (a) Interchange the side airbag sensor RH with LH and connect the connectors to them.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the the memory (See page [RS-49](#)).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page [RS-49](#)).

Result

Result	Proceed to
DTC B1623, B1633, B1643, or 81 is output.	A
DTC B1628, B1638, B1648, or 82 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

- (h) Turn the engine switch off.
- (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (j) Return the side airbag sensor RH and LH to their original positions and connect the connectors to them.

B

REPLACE SIDE AIRBAG SENSOR LH (See page [RS-477](#))

C

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

A

18 CHECK CONNECTION OF CONNECTOR

- (a) Check that the connector is properly connected to the rear airbag sensor LH.

OK:
The connector is properly connected.

NG

CONNECT CONNECTOR PROPERLY

OK

RS

19

CHECK CONNECTOR

- (a) Disconnect the connectors from the side airbag sensor LH and rear airbag sensor LH.
- (b) Check that the connector (on the rear airbag sensor LH side) is not damaged.

OK:
The connector is not deformed or damaged.

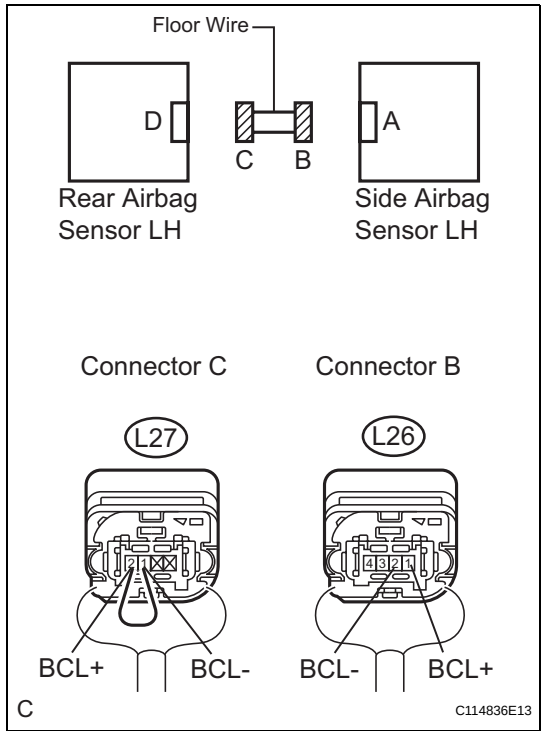
NG

REPAIR OR REPLACE FLOOR WIRE

OK

20

CHECK FLOOR WIRE (OPEN)



- (a) Using a service wire, connect terminals 2 (BCL+) and 1 (BCL-) of connector C.

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

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

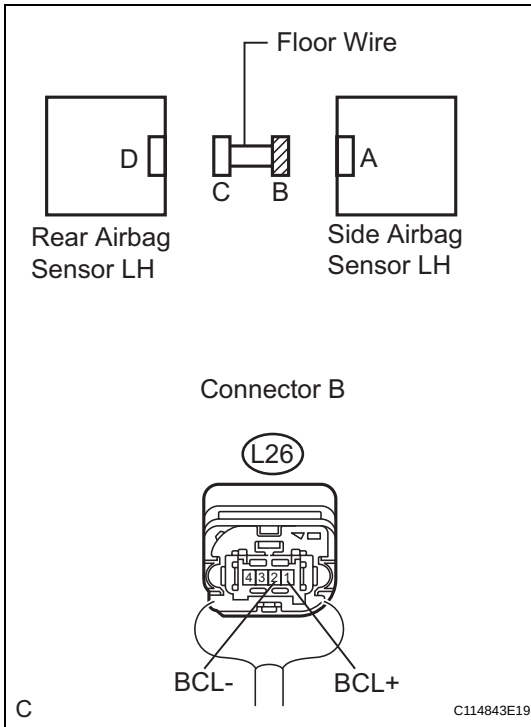
Standard resistance

Tester Connection	Condition	Specified Condition
L26-1 (BCL+) - L26-2 (BCL-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

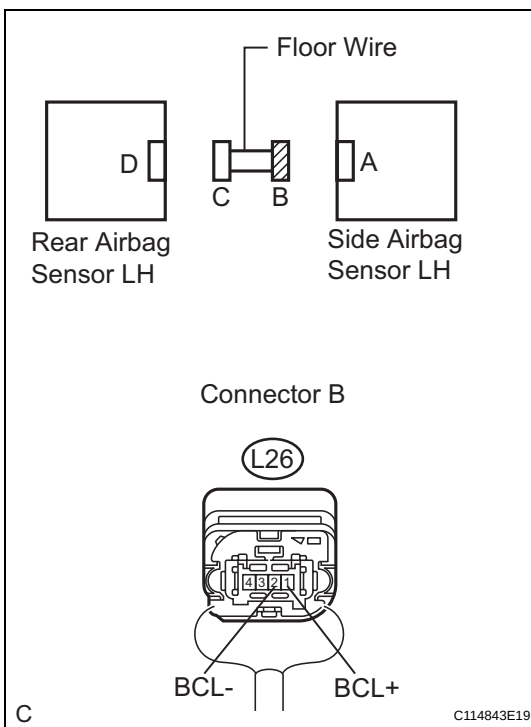
OK

21 CHECK FLOOR WIRE (SHORT)

- (a) Disconnect the service wire from connector C.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L26-1 (BCL+) - L26-2 (BCL-)	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****22 CHECK FLOOR WIRE (SHORT TO B+)**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 (b) Turn the engine switch on (IG).
 (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

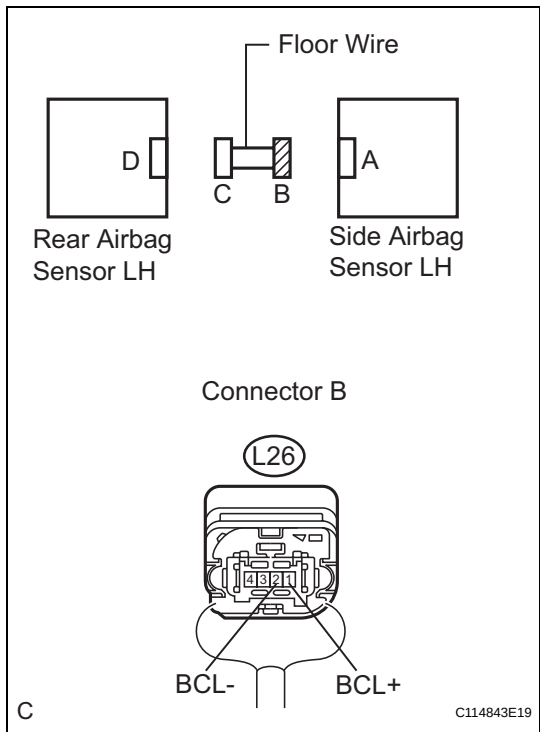
Tester Connection	Condition	Specified Condition
L26-1 (BCL+) - Body ground	Engine switch on (IG)	Below 1 V
L26-2 (BCL-) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE****OK****RS**

RS

23

CHECK FLOOR WIRE (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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
L26-1 (BCL+) - Body ground	Always	1 MΩ or higher
L26-2 (BCL-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

24

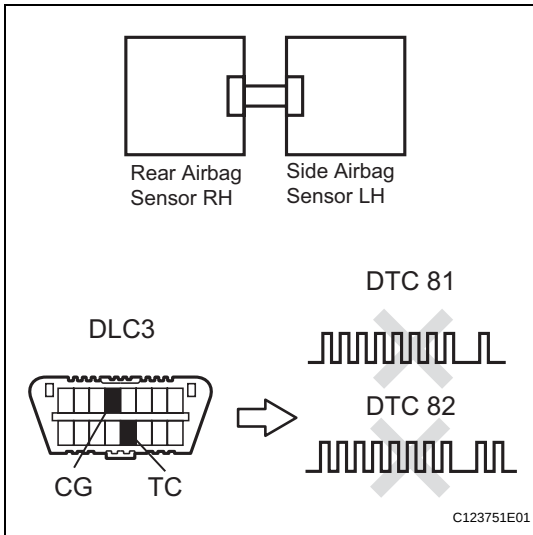
CONFIRM PART NUMBER OF REAR AIRBAG SENSOR

- (a) Check that the part number of the rear airbag sensor LH is equal to the number of the other side.
OK:
Those numbers are the same.
- (b) Connect the connectors to the side airbag sensor LH and the rear airbag sensor LH.

NG

Go to step 26

OK

25 CHECK REAR AIRBAG SENSOR LH

- Interchange the rear airbag sensor RH with LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1623, B1633, B1643, or 81 is output.	A
DTC B1628, B1638, B1648, or 82 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

HINT:

Codes other than DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 may be output at this time, but they are not related to this check.

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Return the rear airbag sensor RH and LH to their original positions and connect the connectors to them.

B

REPLACE REAR AIRBAG SENSOR LH (See page RS-480)

C

USE SIMULATION METHOD TO CHECK (See page RS-37)

A**26 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1623, B1633, B1643, or 81 is not output.

HINT:

Codes other than DTC B1623, B1633, B1643, or 81 may be output at this time, but they are not related to this check.

RS

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

27 CHECK CONNECTION OF CONNECTORS

- (a) Turn the engine switch off.
- (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 center airbag sensor assembly and the side airbag sensor LH.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY

OK

28 CHECK CONNECTORS

- (a) Disconnect the connectors from the center airbag sensor assembly and side airbag sensor LH.
- (b) Check that the connectors (on the center airbag sensor assembly side and side airbag sensor LH side) are not damaged.

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

OK

29 CHECK VEHICLE CONDITION

- (a) Check whether or not the vehicle is equipped with the rear side airbag.

Result:

A:

with the rear side airbag

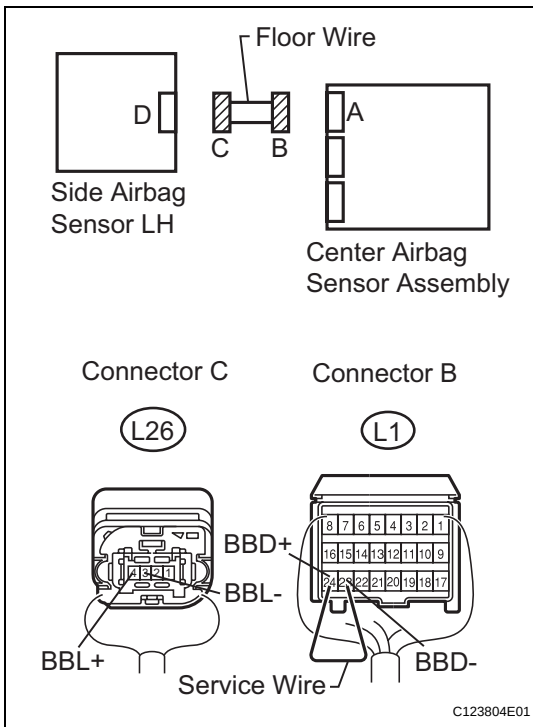
B:

without the rear side airbag

B

Go to step 37

A

30 CHECK FLOOR WIRE (OPEN)

- (a) Using a service wire, connect terminals 24 (BBD+) and 23 (BBD-) of connector B.

NOTICE:

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

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

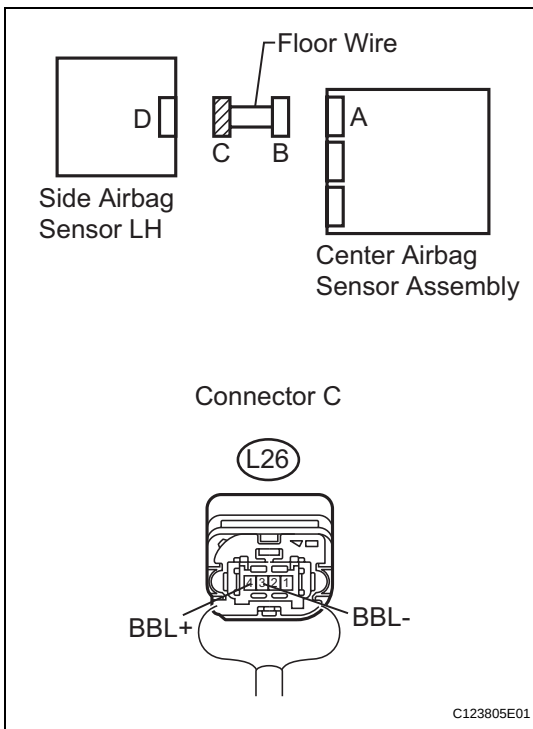
Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

OK

31 CHECK FLOOR WIRE (SHORT)

- (a) Disconnect the service wire from connector B.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	1 M Ω or higher

NG

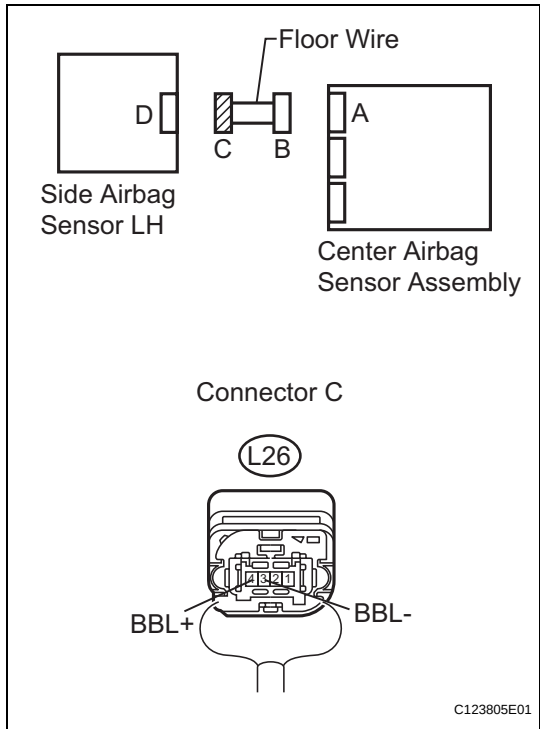
REPAIR OR REPLACE FLOOR WIRE

OK

32

CHECK FLOOR WIRE (SHORT TO B+)

RS



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - Body ground	Engine switch on (IG)	Below 1 V
L26-3 (BBL-) - Body ground	Engine switch on (IG)	Below 1 V

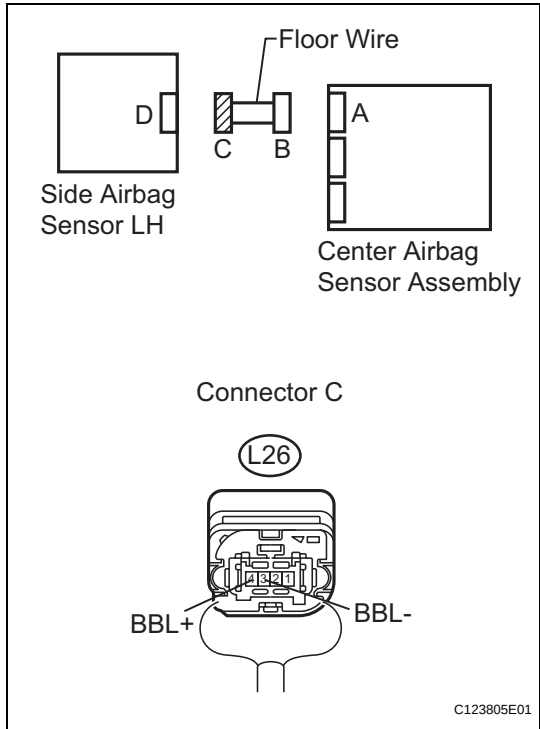
NG

REPAIR OR REPLACE FLOOR WIRE

OK

33

CHECK FLOOR WIRE (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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
L26-4 (BBL+) - Body ground	Always	1 MΩ or higher
L26-3 (BBL-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

34 CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR

- (a) Check that the part number of the side airbag sensor LH is equal to the number of the other side.

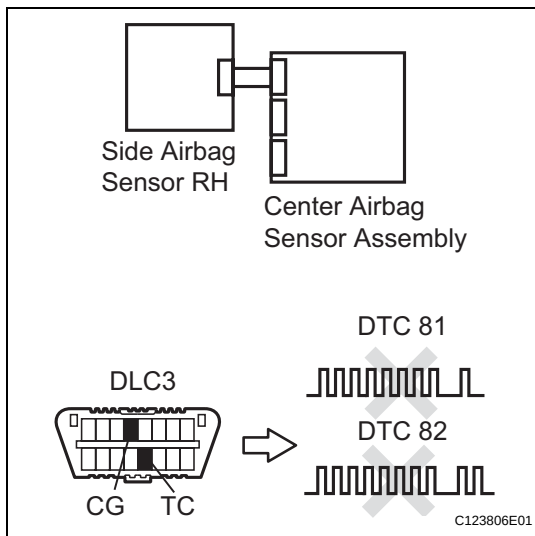
OK:**Those numbers are the same.**

- (b) Connect the connectors to the center airbag sensor assembly and the side airbag sensor LH.

NG

Go to step 36

OK

35 CHECK SIDE AIRBAG SENSOR LH

- (a) Interchange the side airbag sensor RH with LH and connect the connectors to them.
 (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
 (d) Clear the DTCs stored in the memory (See page RS-49).
 (e) Turn the engine switch off.
 (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
 (g) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1623, B1633, B1643, or 81 is output.	A
DTC B1628, B1638, B1648, or 82 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

- (h) Turn the engine switch off.
 (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 (j) Return the side airbag sensor RH and LH to their original positions and connect the connectors to them.

B

REPLACE SIDE AIRBAG SENSOR LH (See page RS-477)

C

USE SIMULATION METHOD TO CHECK (See page RS-37)

A

36 CHECK CENTER AIRBAG SENSOR ASSEMBLY

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

RS

RS

- (b) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (c) Clear the DTCs stored in the memory (See page RS-49).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (f) Check the DTCs (See page RS-49).

OK:

DTC B1623, B1633, B1643, or 81 is not output.

HINT:

Codes other than DTC B1623, B1633, B1643, or 81 may be output at this time, but they are not related to this check.

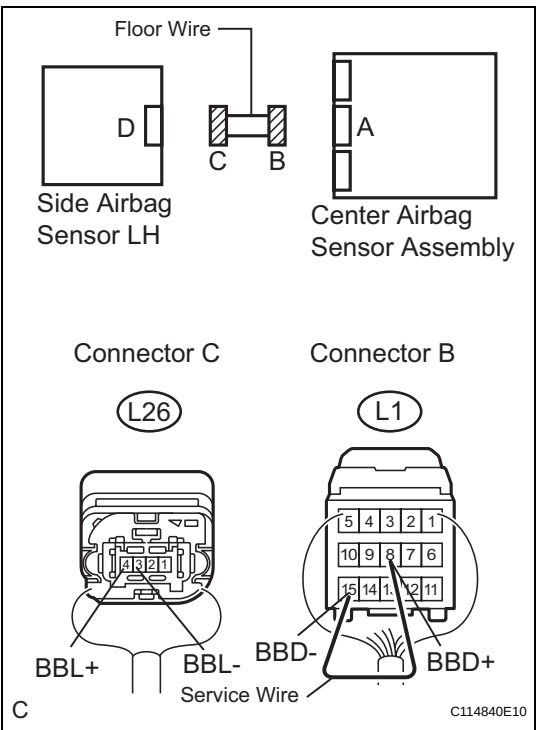
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

37 CHECK FLOOR WIRE (OPEN)



- (a) Using a service wire, connect terminals 8 (BBD+) and 15 (BBD-) of connector B.

NOTICE:

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

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

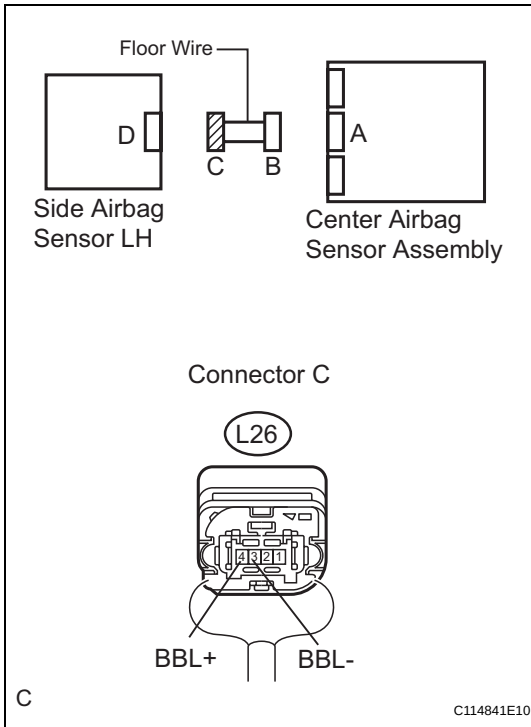
Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

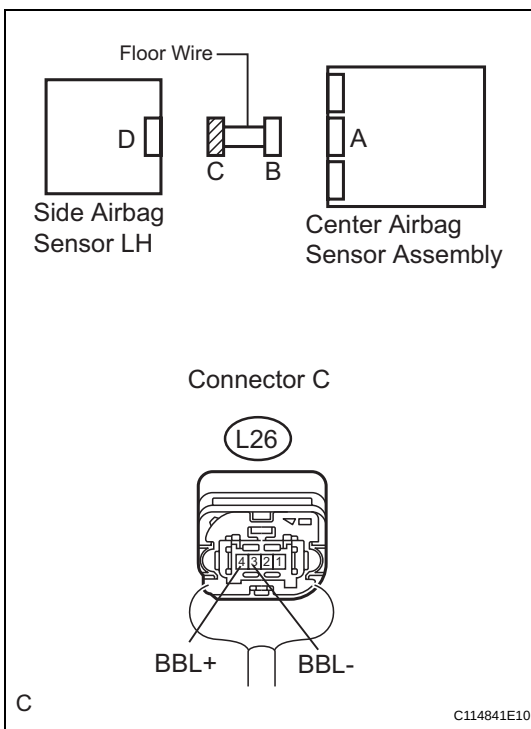
OK

38 CHECK FLOOR WIRE (SHORT)

- (a) Disconnect the service wire from connector B.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - L26-3 (BBL-)	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****39 CHECK FLOOR WIRE (SHORT TO B+)**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 (b) Turn the engine switch on (IG).
 (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

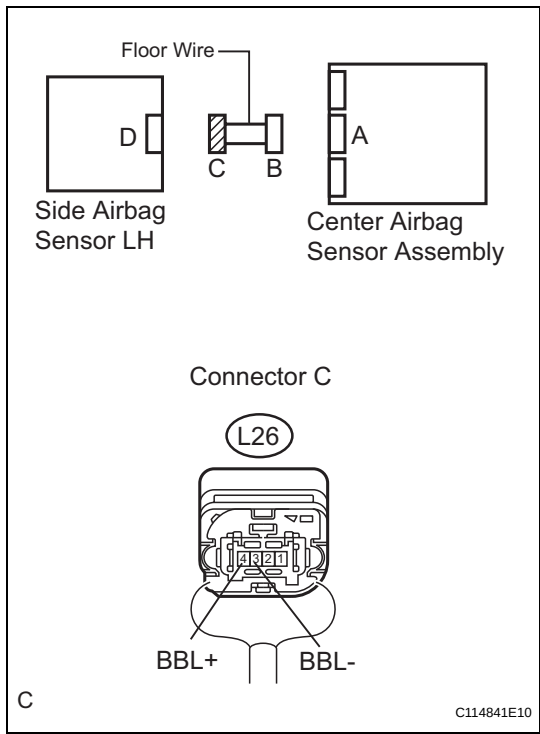
Tester Connection	Condition	Specified Condition
L26-4 (BBL+) - Body ground	Engine switch on (IG)	Below 1 V
L26-3 (BBL-) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE****OK****RS**

RS

40

CHECK FLOOR WIRE (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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
L26-4 (BBL+) - Body ground	Always	1 MΩ or higher
L26-3 (BBL-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

41

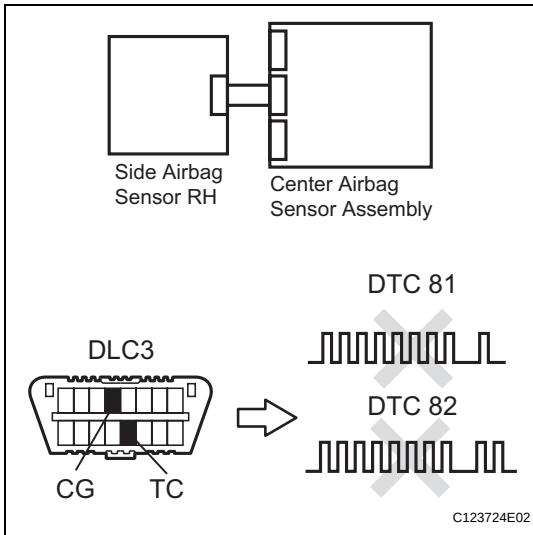
CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR

- (a) Check that the part number of the side airbag sensor LH is equal to the number of the other side.
OK:
Those numbers are the same.
- (b) Connect the connectors to the center airbag sensor assembly and the side airbag sensor LH.

NG

Go to step 43

OK

42 CHECK SIDE AIRBAG SENSOR LH

- Interchange the side airbag sensor RH with LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

Result

Result	Proceed to
DTC B1623, B1633, B1643, or 81 is output.	A
DTC B1628, B1638, B1648, or 82 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Return the side airbag sensor RH and LH to their original positions and connect the connectors to them.

B**REPLACE SIDE AIRBAG SENSOR LH (See page [RS-477](#))****C****USE SIMULATION METHOD TO CHECK (See page [RS-37](#))****A****43 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:**DTC B1623, B1633, B1643, or 81 is not output.****HINT:**

Codes other than DTC B1623, B1633, B1643, or 81 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

RS

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

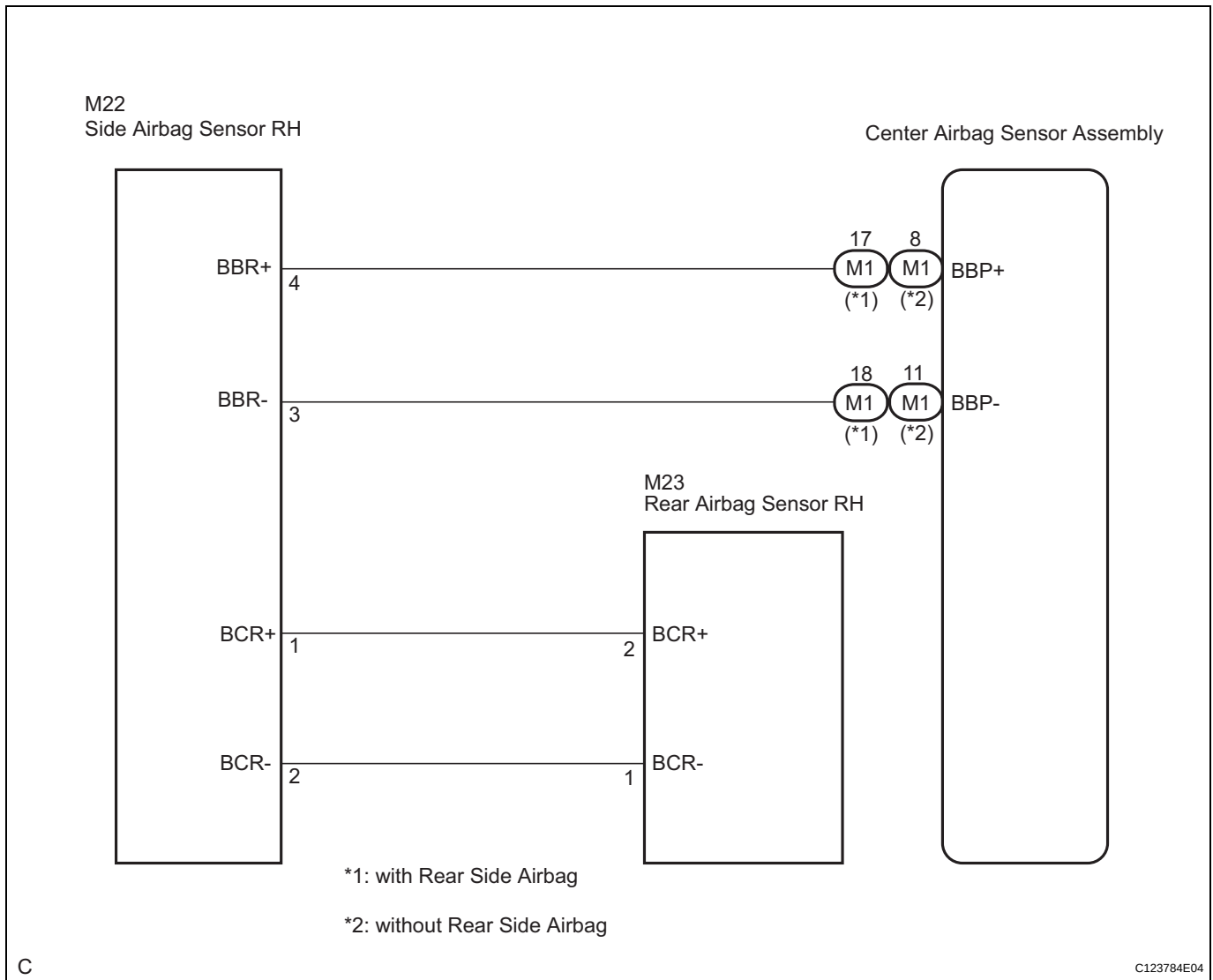
DTC**B1625/22****Front Passenger Side - Side Airbag Sensor Malfunction****DESCRIPTION**

The side airbag sensor RH consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether the SRS should be activated.

DTC B1625/22 is recorded when a malfunction is detected in the front passenger side - side airbag sensor circuit.

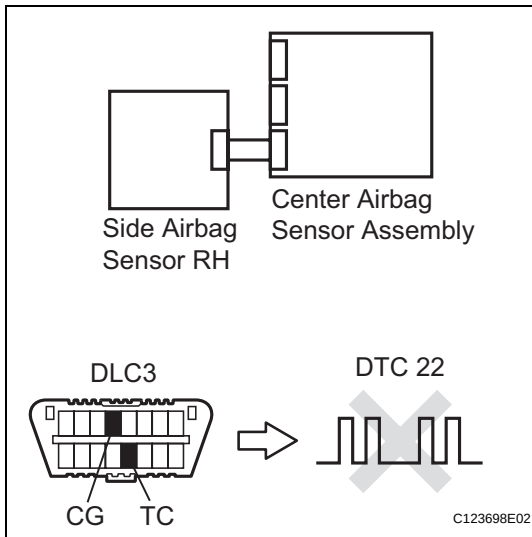
DTC No.	DTC Detection Condition	Trouble Area
B1625/22	- Side airbag sensor RH malfunction - Center airbag sensor assembly malfunction	- Side airbag sensor RH - Center airbag sensor assembly

WIRING DIAGRAM

INSPECTION PROCEDURE

1 CHECK DTC

RS



- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:**DTC B1625/22 is not output.****HINT:**

Codes other than DTC B1625/22 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

NG

2 CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR

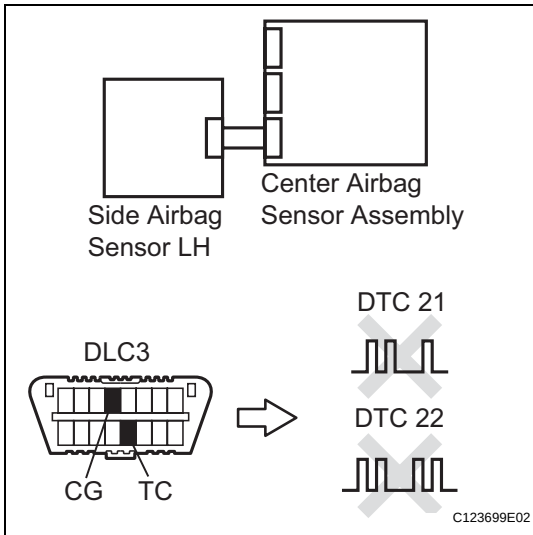
- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the part number of the side airbag sensor RH is equal to the number of the other side.

OK:**Those numbers are the same.**

NG

Go to step 4

OK

3 CHECK SIDE AIRBAG SENSOR RH

- (a) Connect the connectors to the center airbag sensor assembly.
- (b) Interchange the side airbag sensor LH with RH and connect the connectors to them.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in the memory (See page RS-49).
- (f) Turn the engine switch off.
- (g) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1625/22 is output.	A
DTC B1620/21 is output.	B
DTC B1620/21 and B1625/22 are not output.	C

HINT:

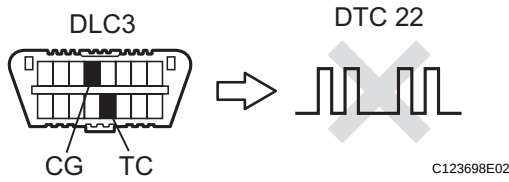
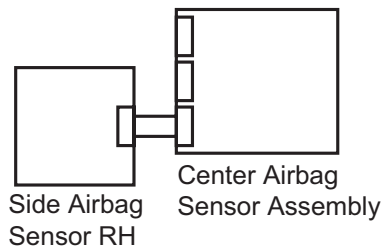
Codes other than DTC B1620/21 and B1625/22 may be output at this time, but they are not related to this check.

- (i) Turn the engine switch off.
- (j) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (k) Return the side airbag sensor LH and RH to their original positions and connect the connectors to them.

A**Go to step 5****B****REPLACE SIDE AIRBAG SENSOR RH (See page RS-477)****C****USE SIMULATION METHOD TO CHECK (See page RS-37)****4 REPLACE SIDE AIRBAG SENSOR RH**

- (a) Replace the side airbag sensor RH (See page RS-477).
- HINT:**
Perform inspection using parts from a normal vehicle if possible.

NEXT**RS**

5 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1625/22 is not output.

HINT:

Codes other than DTC B1625/22 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

DTC	B1627/82	Lost Communication with Front Passenger Side - Side Airbag Sensor Assembly
DTC	B1628/82	Front Passenger Side - Side Airbag Sensor Assembly Initialization Incomplete
DTC	B1637/82	Lost Communication with Passenger Side Rear Airbag Sensor
DTC	B1638/82	Passenger Side Rear Airbag Sensor Initialization Incomplete
DTC	B1647/82	Lost Communication with Front Passenger Side Satellite Sensor Bus
DTC	B1648/82	Front Passenger Side Satellite Sensor Bus Initialization Incomplete

RS**DESCRIPTION**

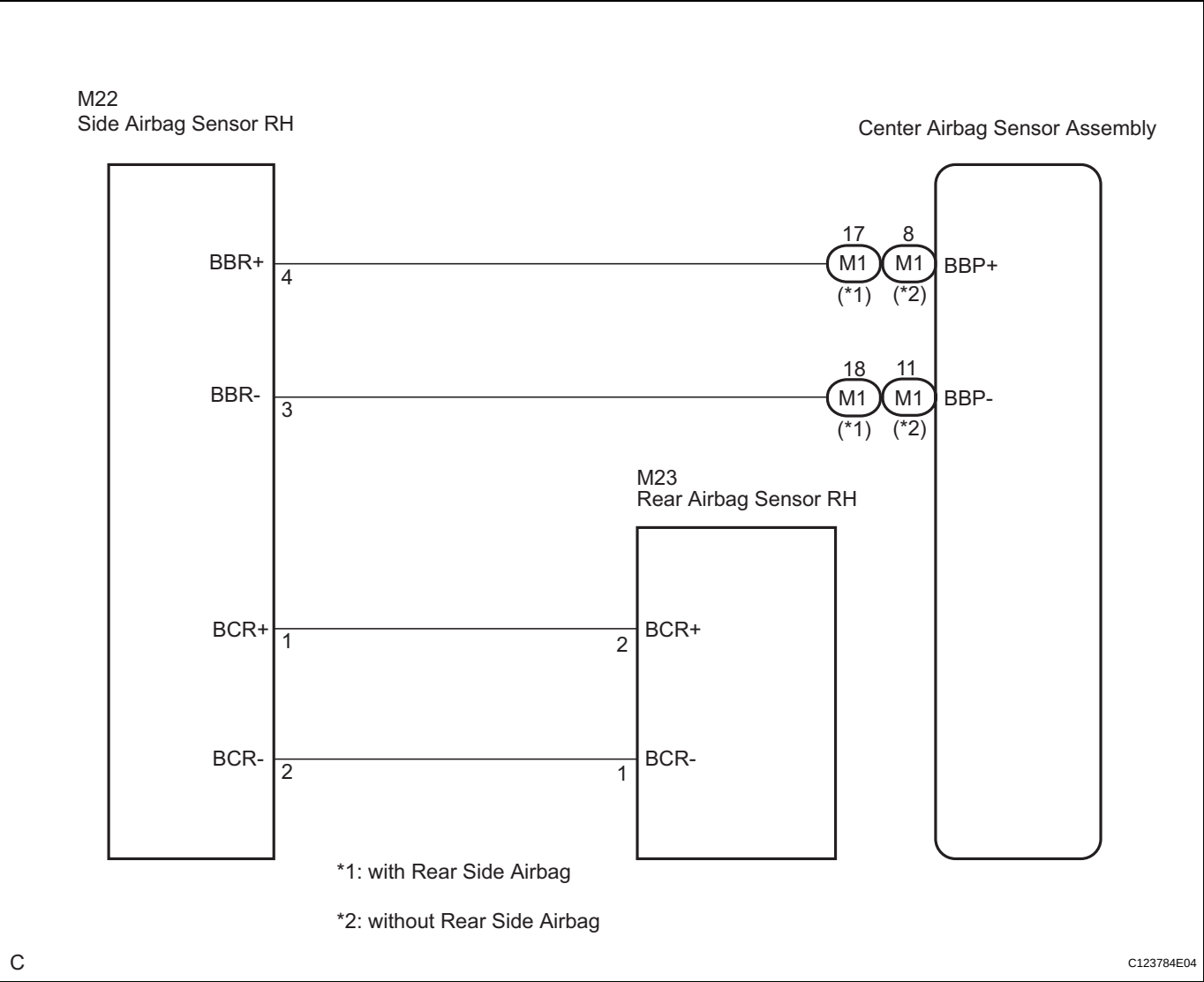
The circuit for the side collision sensor RH (to determine deployment of the front seat side airbag assembly RH and curtain shield airbag assembly RH) is composed of the center airbag sensor assembly, side airbag sensor RH, and rear airbag sensor RH.

The side airbag sensor RH and rear airbag sensor RH detect impacts to the vehicle and send signals to the center airbag sensor assembly to determine if the airbag should be deployed.

DTC B1627/82, B1628/82, B1637/82, B1638/82, B1647/82, or B1648/82 is recorded when a malfunction is detected in the circuit for the side collision sensor RH.

DTC No.	DTC Detecting Condition	Trouble Area
B1627/82 B1628/82 B1637/82 B1638/82 B1647/82 B1648/82	- 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 circuit for the side collision sensor RH (to determine deployment of the front seat side airbag assembly RH and curtain shield airbag assembly RH) for 2 seconds. - Side airbag sensor RH malfunction - Rear airbag sensor RH malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Side airbag sensor RH - Rear airbag sensor RH - Center airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DTC
---	-----------

(a) Turn the engine switch on (IG), and wait for at least 60 seconds.

(b) Turn the engine switch off.

HINT:

If a communication error occurs, DTCs for both the LH and RH sides will be stored simultaneously. To identify the malfunctioning area, turn the engine switch off and then on (IG) again.

(c) Turn the engine switch on (IG), and wait for at least 60 seconds.

(d) Check the present DTCs (See page RS-49).

Result

Result	Proceed to
Present DTC B1628, B1638, B1648, or 82 is output.	A

Result	Proceed to
Present DTC B1623, B1633 B1643, or 81 is output.	B
Present DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

HINT:

- DTCs indicating communication errors will be changed to DTCs indicating errors in initialization by turning the engine switch off and then on (IG) again.
- Codes other than present DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 may be output at this time, but they are not related to this check.

B

REPAIR CIRCUITS INDICATED BY OUTPUT DTCS

C

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

A

2

CHECK PAST DTC

- (a) Check the past DTCs (See page [RS-49](#)).

Result

Result	Proceed to
• Past DTC B1637, B1647, or 82 is output. • Past DTC B1627, B1637, B1647, or 82 is not output.	A
Past DTC B1627 is output.	B

HINT:

Codes other than past DTC B1627, B1637, B1647, or 82 may be output at this time, but they are not related to this check.

B

Go to step 20

A

3

CHECK CONNECTION OF CONNECTORS

- (a) Turn the engine switch off.
- (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 center airbag sensor assembly and the side airbag sensor RH.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY

RS

OK

4

CHECK CONNECTORS

RS

- (a) Disconnect the connectors from the center airbag sensor assembly and side airbag sensor RH.
- (b) Check that the connectors (on the center airbag sensor assembly side and side airbag sensor RH side) are not damaged.

OK:

The connectors are not deformed or damaged.

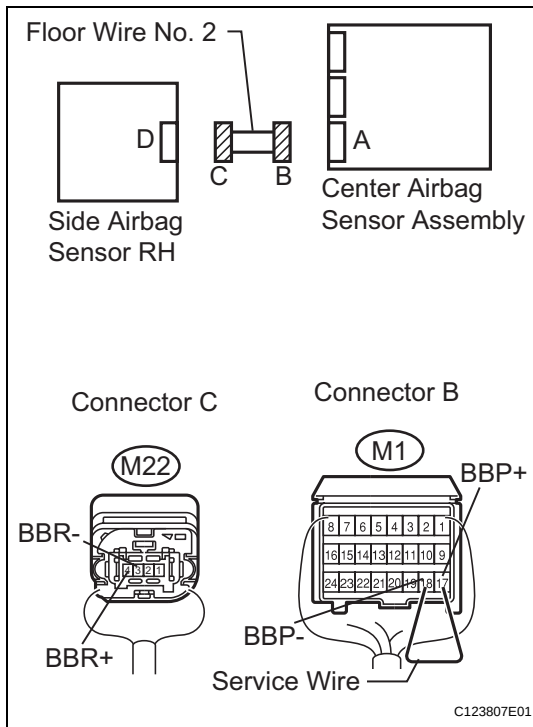
NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

5

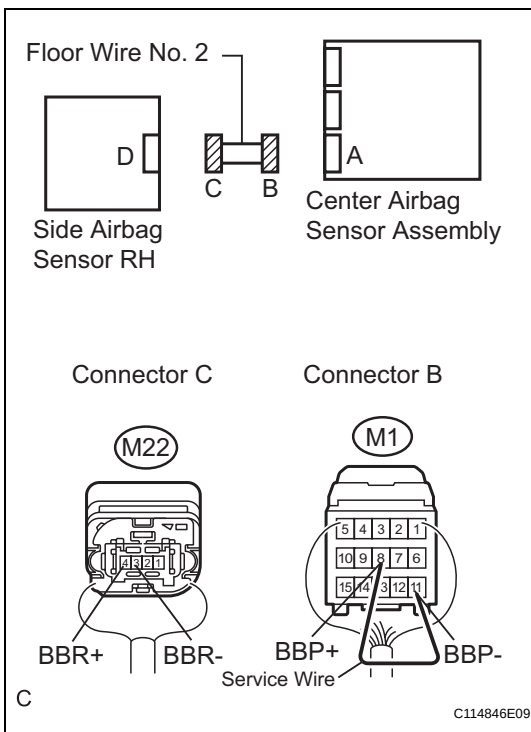
CHECK FLOOR WIRE NO. 2 (OPEN)



- (a) with Rear side airbag:
Using a service wire, connect terminals 17 (BBP+) and 18 (BBP-) of connector B.

NOTICE:

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



OK

- (b) without Rear side airbag:
Using a service wire, connect terminals 8 (BBP+) and 11 (BBP-) of connector B.

NOTICE:

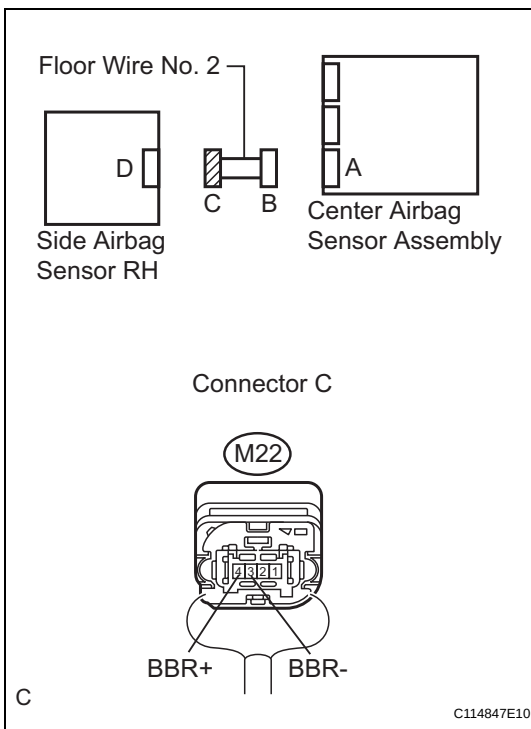
Do not forcibly insert a service wire into the terminals of the connector when connecting the wire.

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

Standard resistance

Tester Connection	Condition	Specified Condition
M22-4 (BBR+) - M22-3 (BBR-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2**6****CHECK FLOOR WIRE NO. 2 (SHORT)**

OK

- (a) Disconnect the service wire from connector B.
(b) Measure the resistance according to the value(s) in the table below.

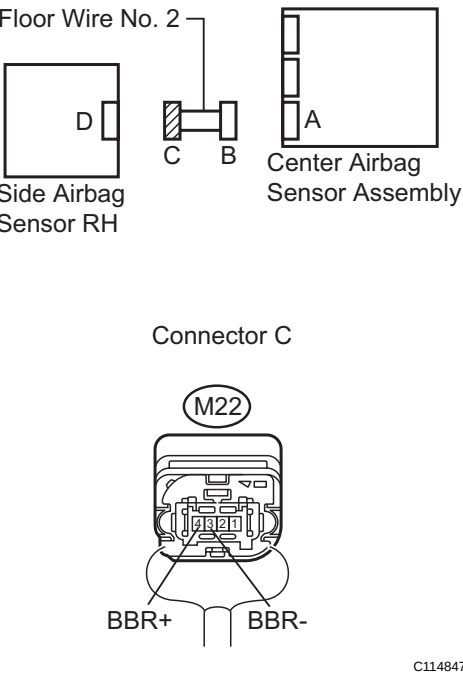
Standard resistance

Tester Connection	Condition	Specified Condition
M22-4 (BBR+) - M22-3 (BBR-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

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



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

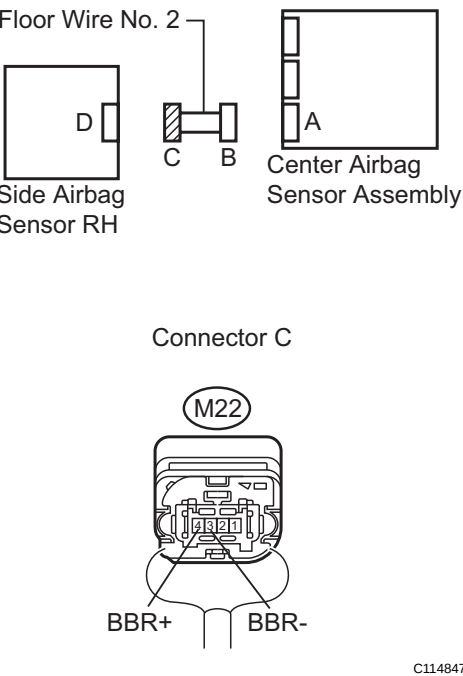
Tester Connection	Condition	Specified Condition
M22-4 (BBR+) - Body ground	Engine switch on (IG)	Below 1 V
M22-3 (BBR-) - Body ground	Engine switch on (IG)	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

8 CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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
M22-4 (BBR+) - Body ground	Always	1 MΩ or higher
M22-3 (BBR-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

9 CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR

- (a) Check that the part number of the side airbag sensor RH is equal to the number of the other side.

OK:

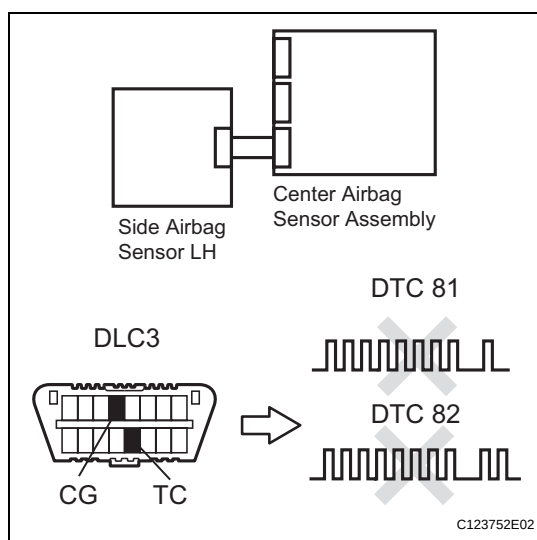
Those numbers are the same.

- (b) Connect the connectors to the center airbag sensor assembly and the side airbag sensor RH.

NG

Go to step 11

OK

10 CHECK SIDE AIRBAG SENSOR RH

- (a) Interchange the side airbag sensor LH with RH and connect the connectors to them.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-49).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1628, B1638, B1648, or 82 is output.	A
DTC B1623, B1633, B1643, or 81 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

- (h) Turn the engine switch off.
- (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (j) Return the side airbag sensor LH and RH to their original positions and connect the connectors to them.

B

REPLACE SIDE AIRBAG SENSOR RH (See page RS-477)

C

USE SIMULATION METHOD TO CHECK (See page RS-37)

A

11 CHECK CONNECTION OF CONNECTOR

- (a) Check that the connector is properly connected to the rear airbag sensor RH.

OK:

The connector is properly connected.

RS

OK

NG

CONNECT CONNECTOR PROPERLY

RS

12

CHECK CONNECTOR

- (a) Disconnect the connectors from the side airbag sensor RH and rear airbag sensor RH.
- (b) Check that the connector (on the rear airbag sensor RH side) is not damaged.

OK:
The connector is not deformed or damaged.

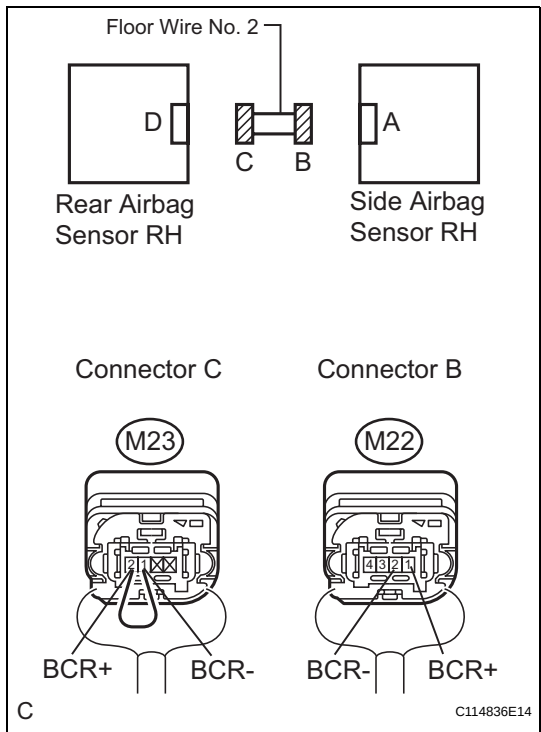
OK

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

13

CHECK FLOOR WIRE NO. 2 (OPEN)



- (a) Using a service wire, connect terminals 2 (BCR+) and 1 (BCR-) of connector C.

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

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

Standard resistance

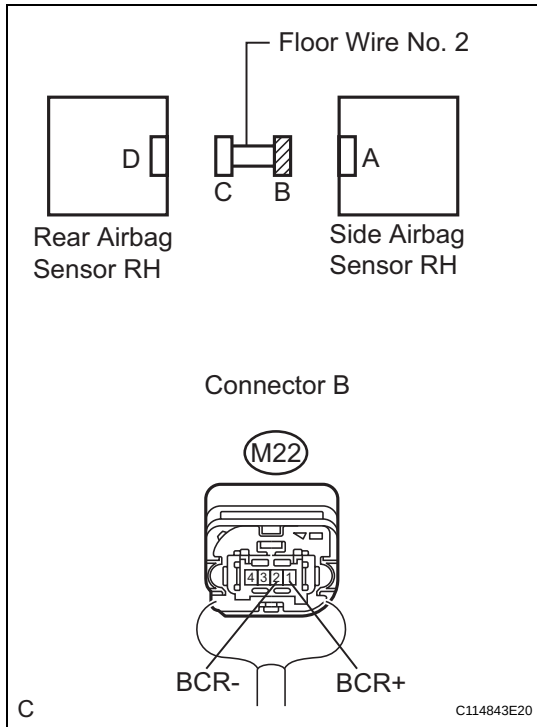
Tester Connection	Condition	Specified Condition
M22-2 (BCR-) - M22-1 (BCR+)	Always	Below 1 Ω

OK

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

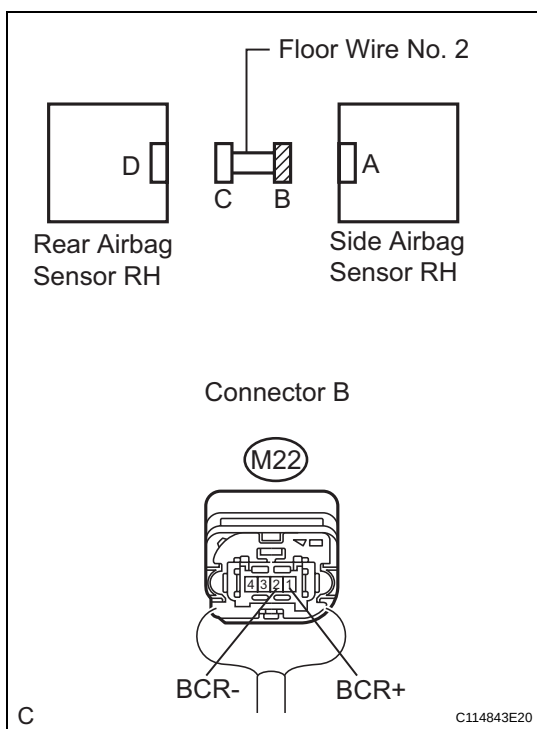
OK

14 CHECK FLOOR WIRE NO. 2 (SHORT)

- (a) Disconnect the service wire from connector C.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M22-1 (BCR+) - M22-2 (BCR-)	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK****15 CHECK FLOOR WIRE NO. 2 (SHORT TO B+)**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 (b) Turn the engine switch on (IG).
 (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

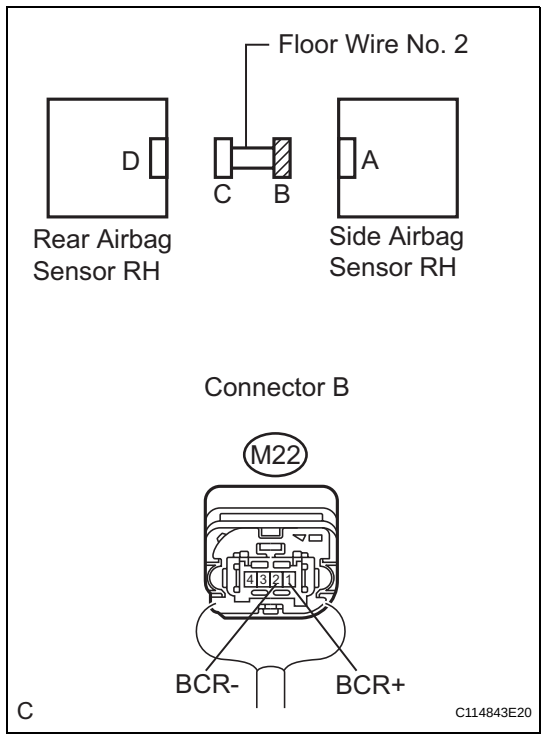
Tester Connection	Condition	Specified Condition
M22-1 (BCR+) - Body ground	Engine switch on (IG)	Below 1 V
M22-2 (BCR-) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK****RS**

RS

16

CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND)



- (a) Turn the engine switch off.
- (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
M22-1 (BCR+) - Body ground	Always	1 MΩ or higher
M22-2 (BCR-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

17

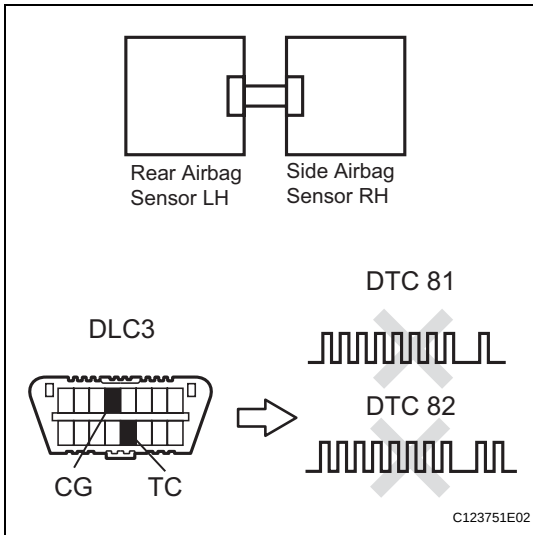
CONFIRM PART NUMBER OF REAR AIRBAG SENSOR

- (a) Check that the part number of the rear airbag sensor RH is equal to the number of the other side.
OK:
Those numbers are the same.
- (b) Connect the connectors to the side airbag sensor RH and the rear airbag sensor RH.

NG

Go to step 19

OK

18 CHECK REAR AIRBAG SENSOR RH

- (a) Interchange the side airbag sensor LH with RH and connect the connectors to them.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-49).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1628, B1638, B1648, or 82 is output.	A
DTC B1623, B1633, B1643, or 81 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

HINT:

Codes other than DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 may be output at this time, but they are not related to this check.

- (h) Turn the engine switch off.
- (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (j) Return the rear airbag sensor LH and RH to their original positions and connect the connectors to them.

B

REPLACE REAR AIRBAG SENSOR RH (See page RS-480)

C

USE SIMULATION METHOD TO CHECK (See page RS-37)

A**19 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (c) Clear the DTCs stored in the memory (See page RS-49).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (f) Check the DTCs (See page RS-49).

OK:

DTC B1628, B1638, B1648, or 82 is not output.

HINT:

Codes other than DTC B1628, B1638, B1648, or 82 may be output at this time, but they are not related to this check.

RS**NG****REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))****OK****USE SIMULATION METHOD TO CHECK (See page [RS-37](#))****20****CHECK CONNECTION OF CONNECTORS**

- (a) Turn the engine switch off.
- (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 center airbag sensor assembly and the side airbag sensor RH.

OK:

The connectors are properly connected.

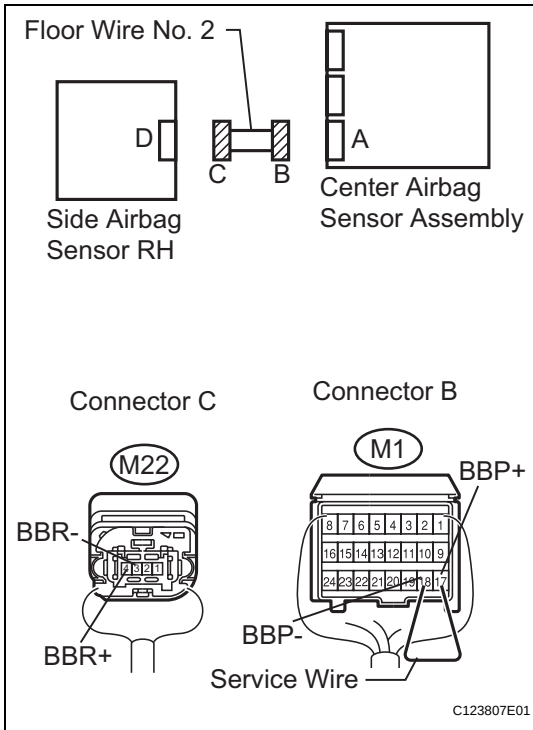
NG**CONNECT CONNECTORS PROPERLY****OK****21****CHECK CONNECTORS**

- (a) Disconnect the connectors from the center airbag sensor assembly and side airbag sensor RH.
- (b) Check that the connectors (on the center airbag sensor assembly side and side airbag sensor RH side) are not damaged.

OK:

The connectors are not deformed or damaged.

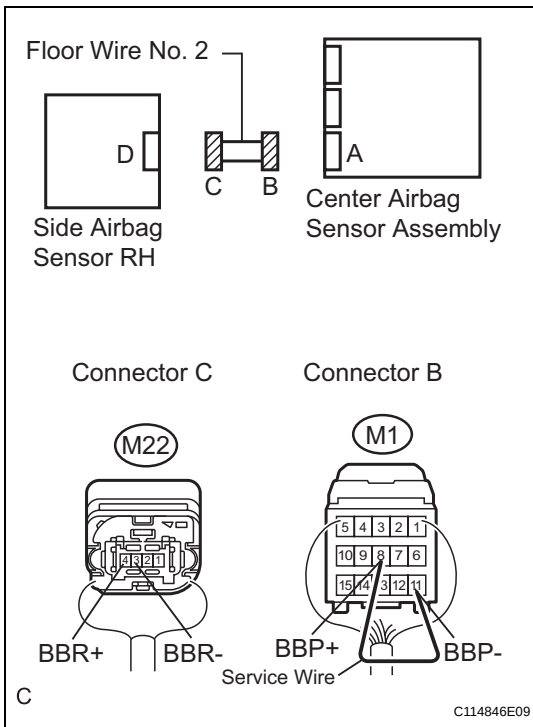
NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK**

22 CHECK FLOOR WIRE NO. 2 (OPEN)

- (a) with Rear side airbag:
Using a service wire, connect terminals 17 (BBP+) and 18 (BBP-) of connector B.

NOTICE:

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



- (b) without Rear side airbag:
Using a service wire, connect terminals 8 (BBP+) and 11 (BBP-) of connector B.

NOTICE:

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

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

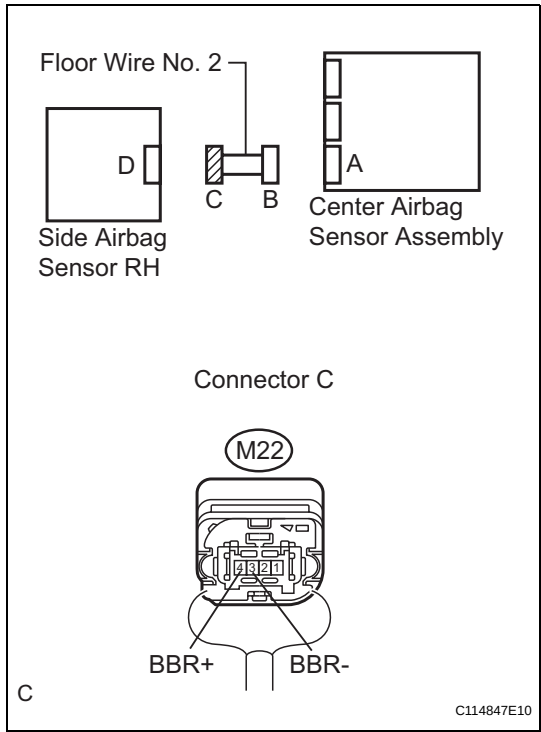
Standard resistance

Tester Connection	Condition	Specified Condition
M22-4 (BBR+) - M22-3 (BBR-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK**

23

CHECK FLOOR WIRE NO. 2 (SHORT)



- (a) Disconnect the service wire from connector B.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

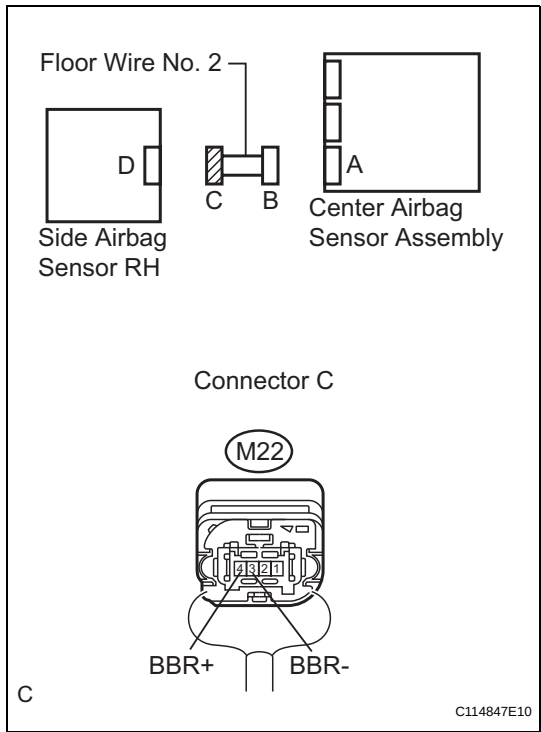
Tester Connection	Condition	Specified Condition
M22-4 (BBR+) - M22-3 (BBR-)	Always	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

24

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



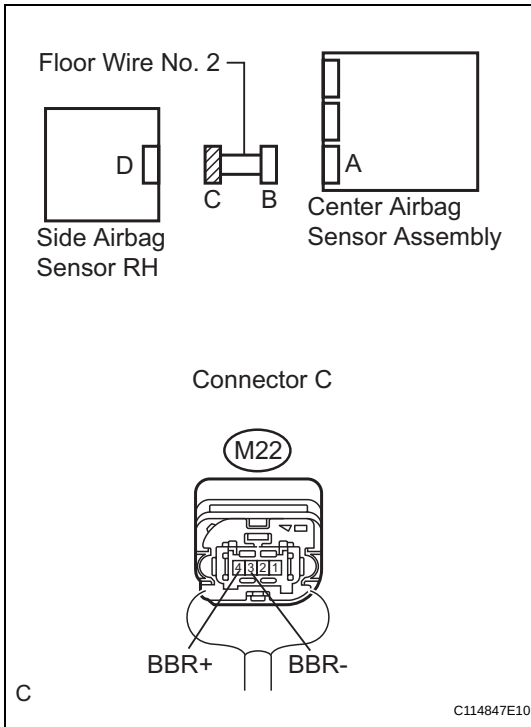
- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
M22-4 (BBR+) - Body ground	Engine switch on (IG)	Below 1 V
M22-3 (BBR-) - Body ground	Engine switch on (IG)	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

25 CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND)

- (a) Turn the engine switch off.
- (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
M22-4 (BBR+) - Body ground	Always	1 MΩ or higher
M22-3 (BBR-) - Body ground	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****OK****26 CONFIRM PART NUMBER OF SIDE AIRBAG SENSOR**

- (a) Check that the part number of the side airbag sensor RH is equal to the number of the other side.

OK:**Those numbers are the same.**

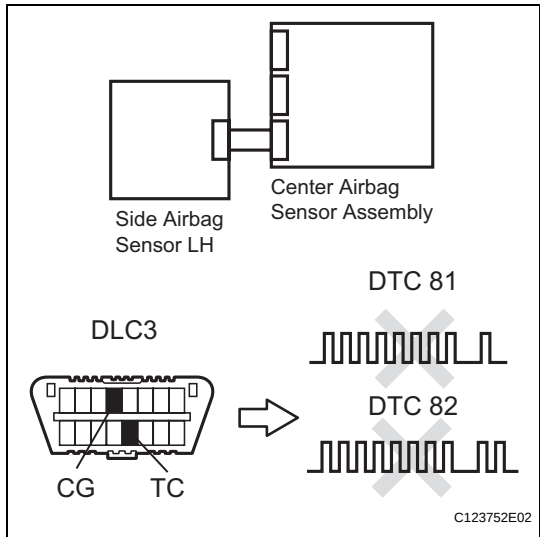
- (b) Connect the connectors to the center airbag sensor assembly and the side airbag sensor RH.

NG**Go to step 28****OK****RS**

27

CHECK SIDE AIRBAG SENSOR RH

RS



- (a) Interchange the side airbag sensor LH with RH and connect the connectors to them.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-49).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1628, B1638, B1648, or 82 is output.	A
DTC B1623, B1633, B1643, or 81 is output.	B
DTC B1623, B1633, B1643, or 81 and B1628, B1638, B1648, or 82 are not output.	C

- (h) Turn the engine switch off.
- (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (j) Return the side airbag sensor LH and RH to their original positions and connect the connectors to them.

B

REPLACE SIDE AIRBAG SENSOR RH (See page RS-477)

C

USE SIMULATION METHOD TO CHECK (See page RS-37)

A

28

CHECK CENTER AIRBAG SENSOR ASSEMBLY

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (c) Clear the DTCs stored in the memory (See page RS-49).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (f) Check the DTCs (See page RS-49).

OK:

DTC B1628, B1638, B1648, or 82 is not output.

HINT:

Codes other than DTC B1628, B1638, B1648, or 82 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR
ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

DTC

B1630/23

Driver Side Rear Airbag Sensor Malfunction

DESCRIPTION

The rear airbag sensor LH consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

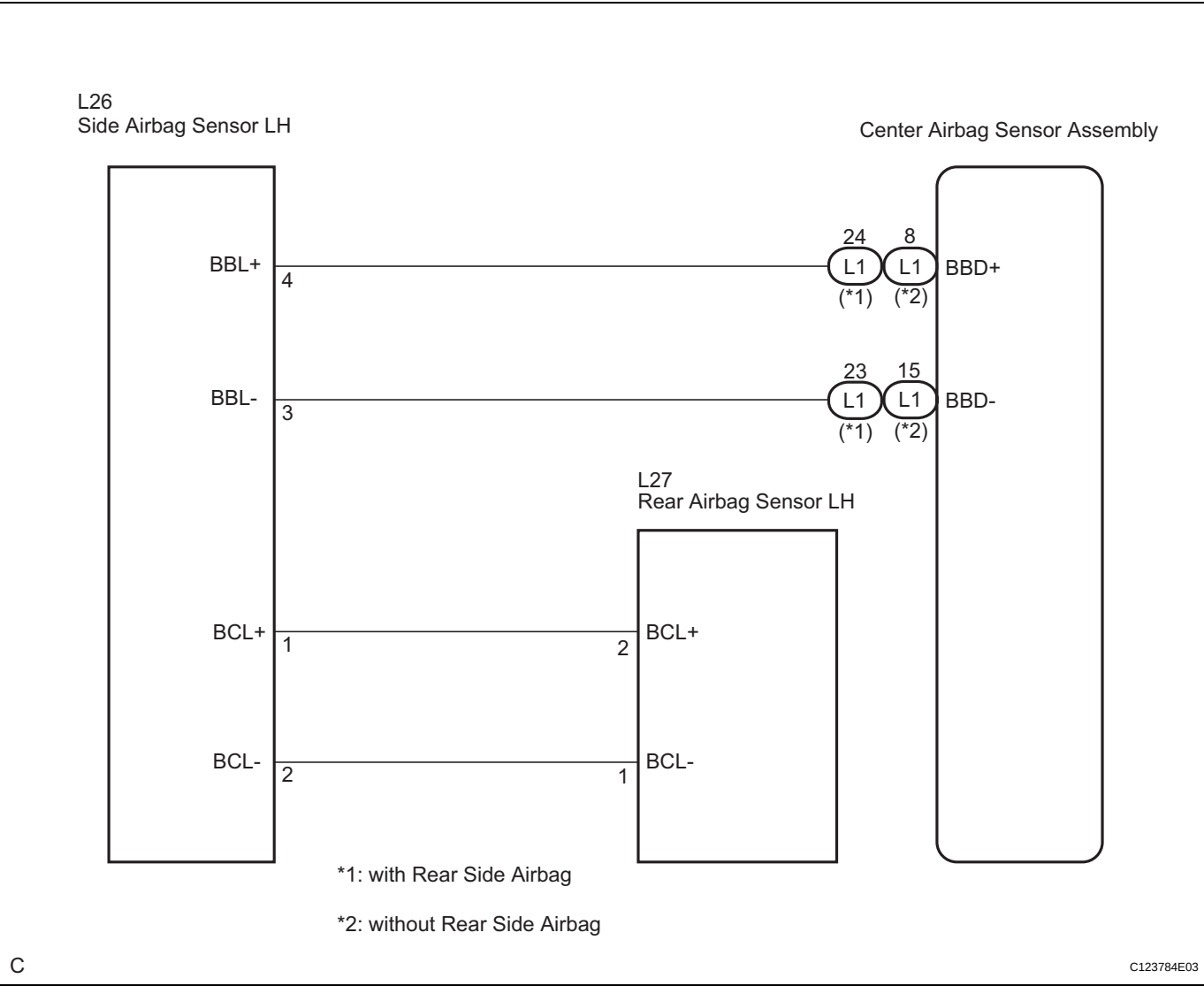
RS

If the center airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether the SRS should be activated.

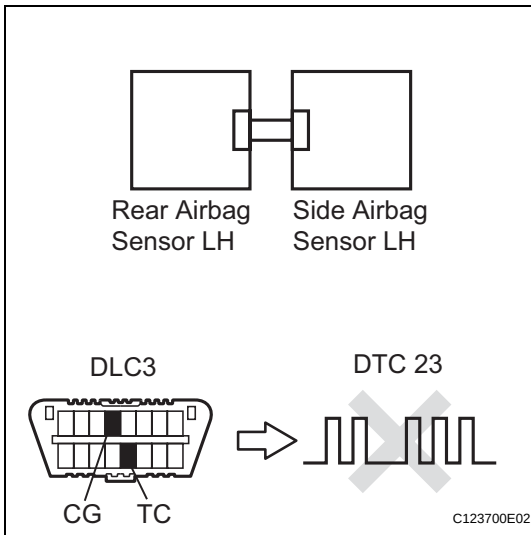
DTC B1630/23 is recorded when a malfunction is detected in the driver side rear airbag sensor circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1630/23	- Rear airbag sensor LH malfunction - Center airbag sensor assembly malfunction	- Rear airbag sensor LH - Center airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC

- (a) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (b) Clear the DTCs stored in the memory (See page RS-49).
- (c) Turn the engine switch off.
- (d) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (e) Check the DTCs (See page RS-49).

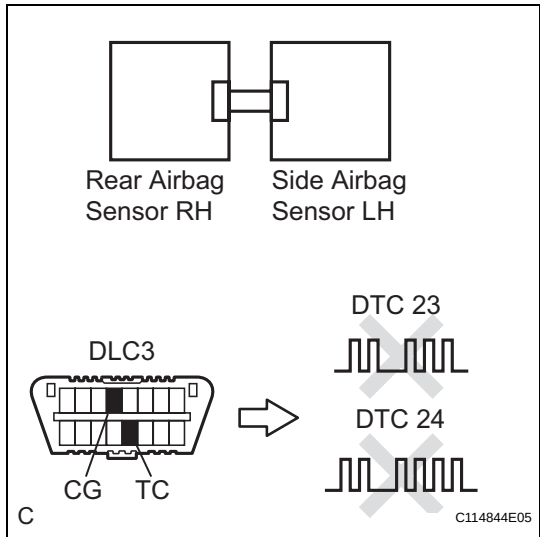
OK:**DTC B1630/23 is not output.****OK****USE SIMULATION METHOD TO CHECK (See page RS-37)****NG****2 CONFIRM PART NUMBER OF REAR AIRBAG SENSOR**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check that the part number of the rear airbag sensor LH is equal to the number of the other side.

OK:**Those numbers are the same.****NG****Go to step 4****OK****RS**

3

CHECK REAR AIRBAG SENSOR LH



- (a) Interchange the rear airbag sensor RH with LH and connect the connectors to them.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-49).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-49).

Result

Result	Proceed to
DTC B1630/23 is output.	A
DTC B1635/24 is output.	B
DTC B1630/23 and B1635/24 are not output.	C

- HINT:
Codes other than DTC B1630/23 and B1635/24 may be output at this time, but they are not related to this check.
- (h) Turn the engine switch off.
 - (i) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (j) Return the rear airbag sensor RH and LH to their original positions and connect the connectors to them.

A

Go to step 5

B

REPLACE REAR AIRBAG SENSOR LH (See page RS-480)

C

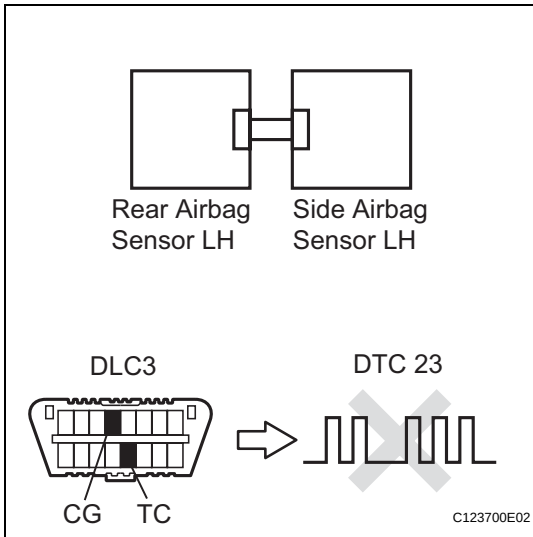
USE SIMULATION METHOD TO CHECK (See page RS-37)

4

REPLACE REAR AIRBAG SENSOR LH

- (a) Replace the rear airbag sensor LH (See page RS-480).
- HINT:
Perform inspection using parts from a normal vehicle if possible.

NEXT

5 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (c) Clear the DTCs stored in the memory (See page RS-49).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (f) Check the DTCs (See page RS-49).

OK:**DTC B1630/23 is not output.****HINT:**

Codes other than DTC B1630/23 and B1635/24 may be output at this time, but they are not related to this check.

NG**REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)****OK****USE SIMULATION METHOD TO CHECK (See page RS-37)****RS**

DTC	B1800/51	Short in Driver Side Squib Circuit
DTC	B1801/51	Open in Driver Side Squib Circuit
DTC	B1802/51	Short to GND in Driver Side Squib Circuit
DTC	B1803/51	Short to B+ in Driver Side Squib Circuit

RS**DESCRIPTION**

The driver side squib circuit consists of the center airbag sensor assembly, the spiral cable, and the steering pad.

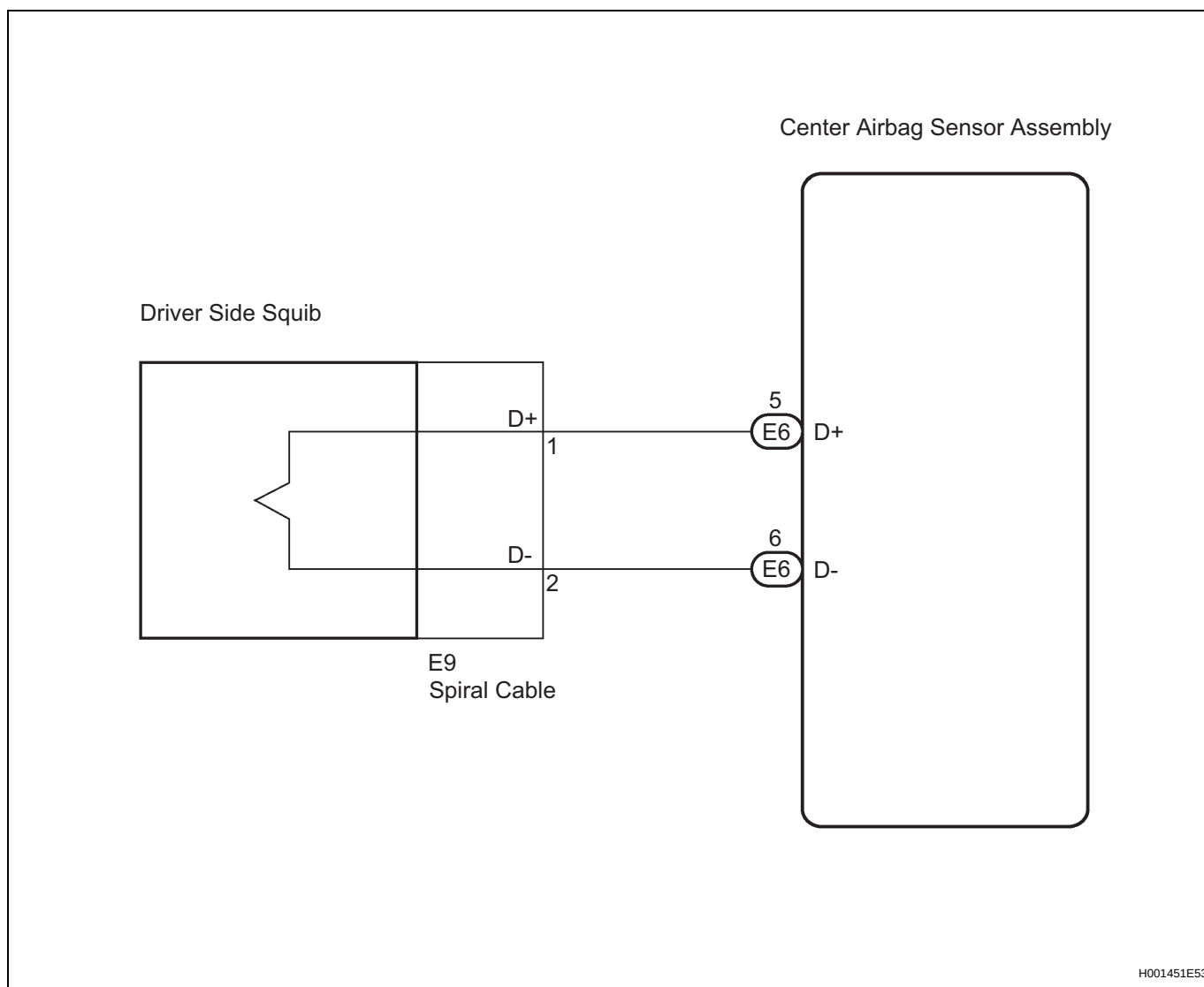
The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the driver side squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1800/51	- The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side squib circuit during primary check. - Driver side squib malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib) - Center airbag sensor assembly
B1801/51	- The center airbag sensor assembly receives an open circuit signal in the driver side squib circuit for 2 seconds. - Driver side squib malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib) - Center airbag sensor assembly
B1802/51	- The center airbag sensor assembly receives a short circuit to ground signal in the driver side squib circuit for 0.5 seconds. - Driver side squib malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib) - Center airbag sensor assembly
B1803/51	- The center airbag sensor assembly receives a short circuit to B+ signal in the driver side squib circuit for 0.5 seconds. - Driver side squib malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib) - Center airbag sensor assembly

WIRING DIAGRAM

RS



H001451E53

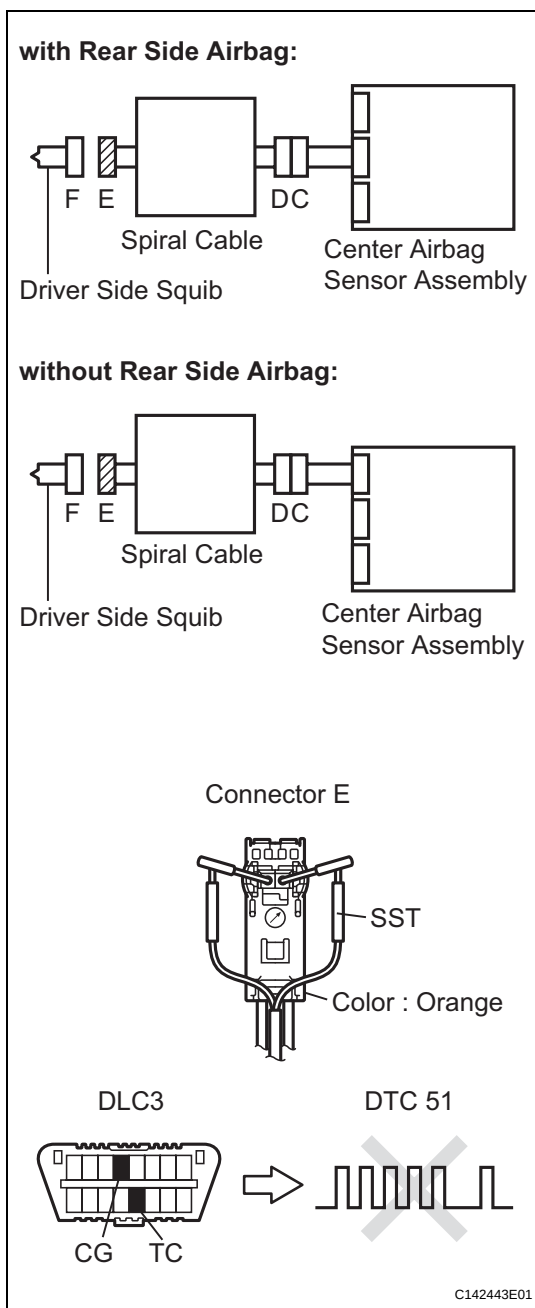
INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting the "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1 CHECK STEERING PAD (DRIVER SIDE SQUIB)

RS



- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- Connect the white wire side of SST (resistance 2.1Ω) to connector E (orange connector).

CAUTION:

Never connect the tester to the steering pad (driver side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1800, B1801, B1802, B1803, or 51 is not output.

HINT:

Codes other than DTC B1800, B1801, B1802, B1803, and 51 may be output at this time, but they are not related to this check.

OK

REPLACE STEERING PAD (See page RS-366)

NG

2 CHECK CONNECTOR

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector E.
- Check that the spiral cable connectors (on the steering pad side) are not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

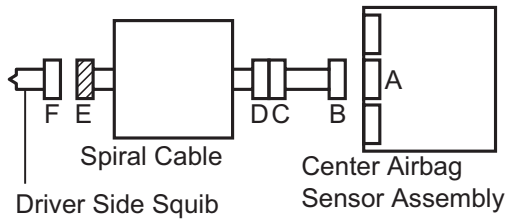
REPLACE SPIRAL CABLE (See page RS-379)

RS

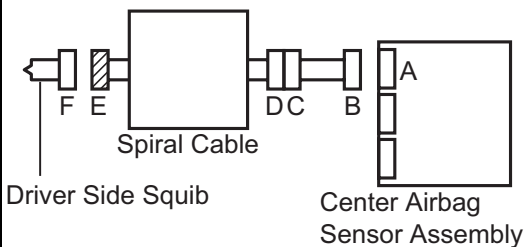
OK

3 CHECK DRIVER SIDE SQUIB CIRCUIT

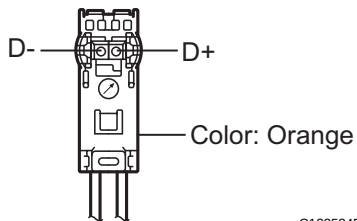
with Rear Side Airbag:



without Rear Side Airbag:



Connector E



C123534E06

- Disconnect the connectors from the center airbag sensor assembly.
- Check for a short to B+ in the circuit.
 - Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the engine switch on (IG).
 - Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D+ - Body ground	Engine switch on (IG)	Below 1 V
D- - Body ground	Engine switch on (IG)	Below 1 V

- Check for an open in the circuit.
 - Turn the engine switch off.
 - Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D+ - D-	Always	Below 1 Ω

- Check for a short to ground in the circuit.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D+ - Body ground	Always	1 M Ω or higher
D- - Body ground	Always	1 M Ω or higher

- Check for a short in the circuit.
 - Release the activation prevention mechanism built into connector B (See page RS-37).
 - Measure the resistance according to the value(s) in the table below.

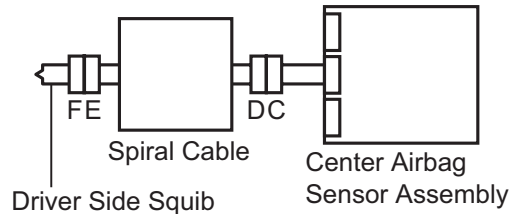
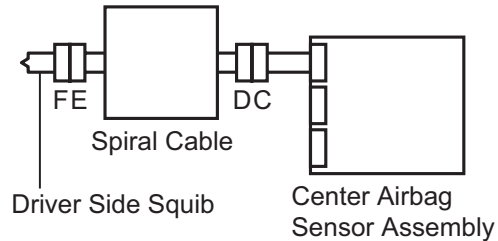
Standard resistance

Tester Connection	Condition	Specified Condition
D+ - D-	Always	1 M Ω or higher

NG

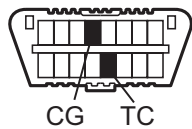
Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY**with Rear Side Airbag:****without Rear Side Airbag:**

DLC3

DTC 51



C142444E01

- (a) Connect the connectors to the steering pad 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 engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page [RS-49](#)).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page [RS-49](#)).

OK:

DTC B1800, B1801, B1802, B1803, or 51 is not output.

HINT:

Codes other than DTC B1800, B1801, B1802, B1803, and 51 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

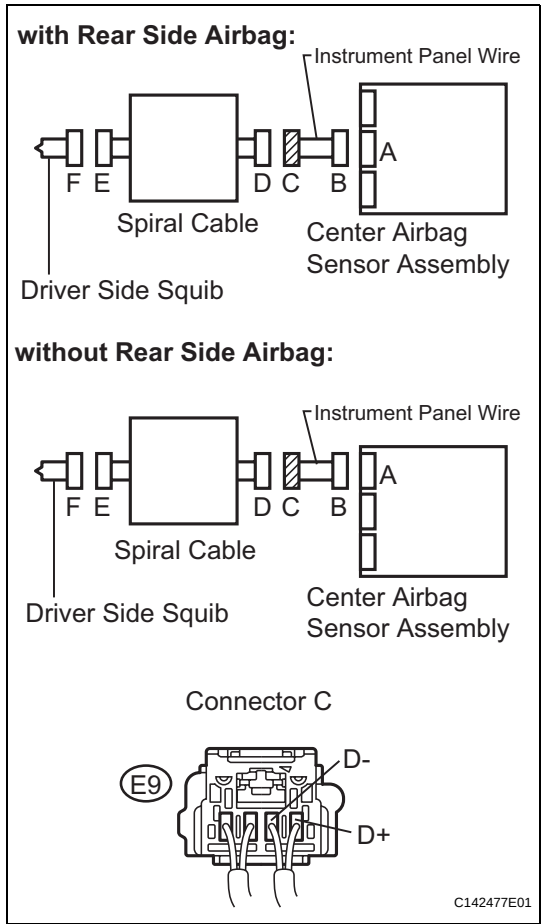
USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

5

CHECK INSTRUMENT PANEL WIRE

RS



- (a) Restore the released activation prevention mechanism of connector B to the original condition.
- (b) Disconnect the instrument panel wire connector from the spiral cable.
- (c) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
E9-1 (D+) - Body ground	Engine switch on (IG)	Below 1 V
E9-2 (D-) - Body ground	Engine switch on (IG)	Below 1 V

- (d) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E9-1 (D+) - E9-2 (D-)	Always	Below 1 Ω

- (e) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E9-1 (D+) - Body ground	Always	1 MΩ or higher
E9-2 (D-) - Body ground	Always	1 MΩ or higher

- (f) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E9-1 (D+) - E9-2 (D-)	Always	1 MΩ or higher

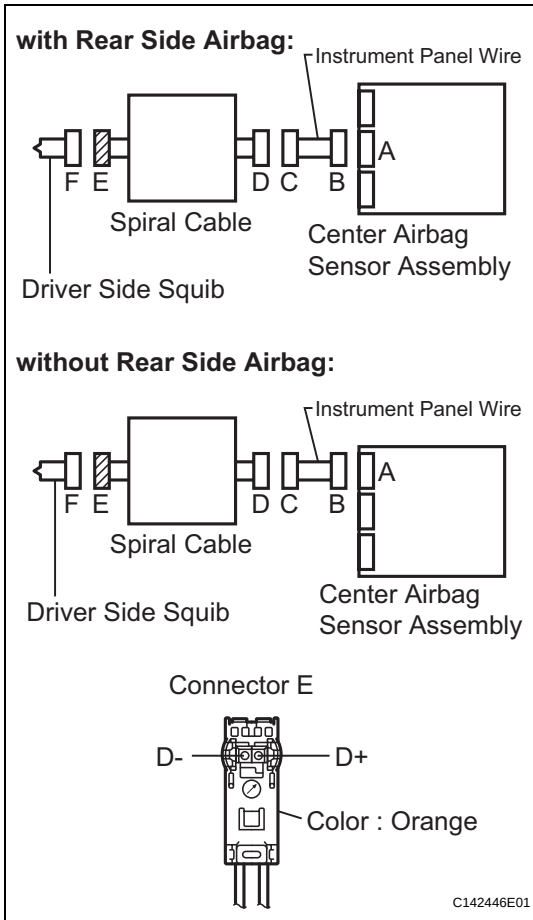
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6

CHECK SPIRAL CABLE



(a) Check for a short to B+ in the circuit.

- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (2) Turn the engine switch on (IG).
- (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D+ - Body ground	Engine switch on (IG)	Below 1 V
D- - Body ground	Engine switch on (IG)	Below 1 V

(b) Check for an open in the circuit.

- (1) Turn the engine switch off.
- (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D+ - D-	Always	Below 1 Ω

(c) Check for a short to ground in the circuit.

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

Standard resistance

Tester Connection	Condition	Specified Condition
D+ - Body ground	Always	1 M Ω or higher
D- - Body ground	Always	1 M Ω or higher

(d) Check for a short in the circuit.

- (1) Release the activation prevention mechanism built into connector D (See page RS-37).
- (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D+ - D-	Always	1 M Ω or higher

NG

REPLACE SPIRAL CABLE (See page RS-379)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

DTC	B1805/52	Short in Front Passenger Side Squib Circuit
DTC	B1806/52	Open in Front Passenger Side Squib Circuit
DTC	B1807/52	Short to GND in Front Passenger Side Squib Circuit
DTC	B1808/52	Short to B+ in Front Passenger Side Squib Circuit

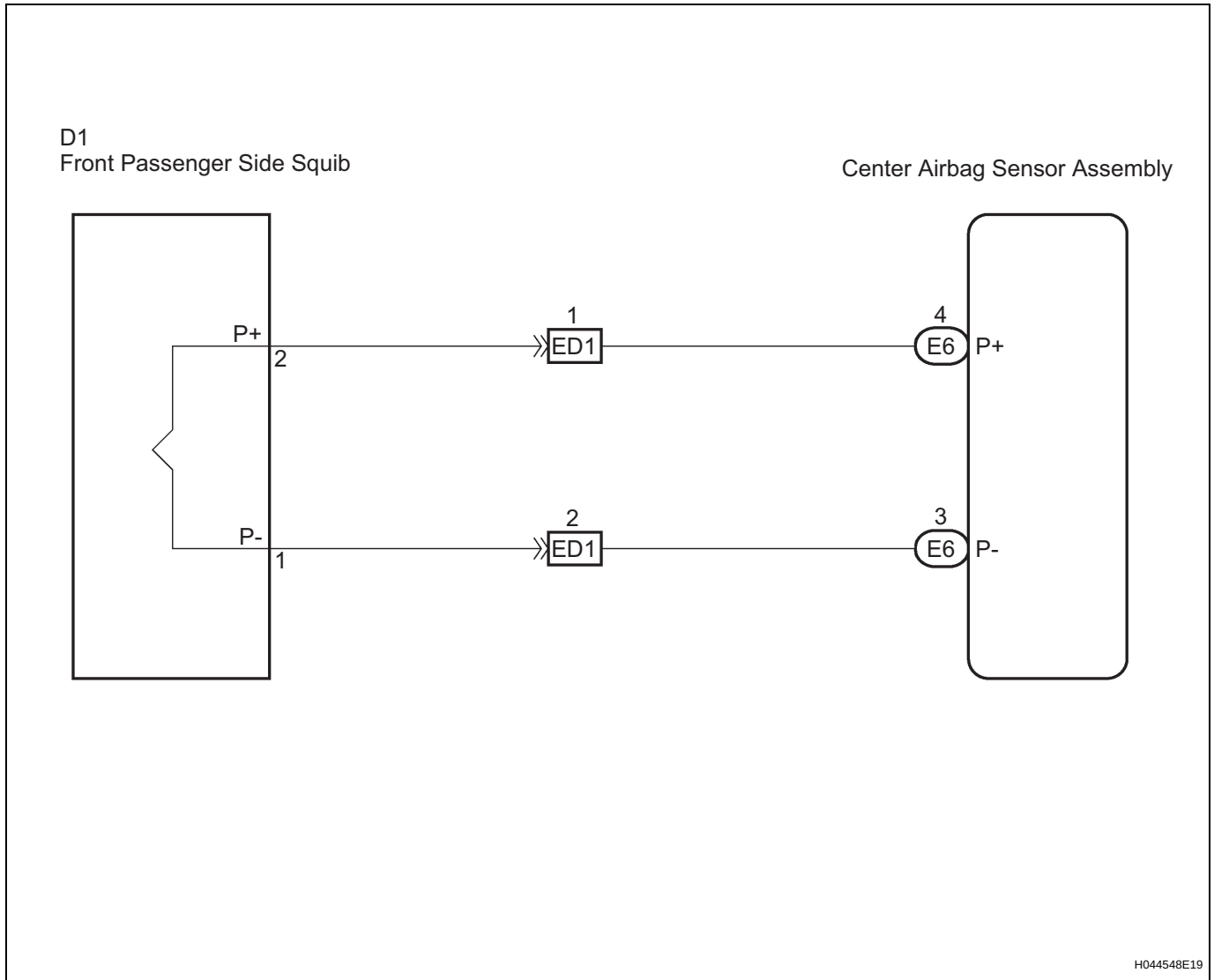
DESCRIPTION

The front passenger side squib circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.

The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side squib circuit.

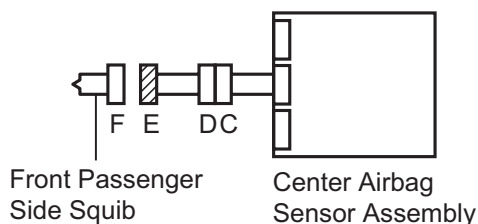
DTC No.	DTC Detection Condition	Trouble Area
B1805/52	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side squib circuit during primary check. - Front passenger side squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib) - Center airbag sensor assembly
B1806/52	- The center airbag sensor assembly receives an open circuit signal in the front passenger side squib circuit for 2 seconds. - Front passenger side squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib) - Center airbag sensor assembly
B1807/52	- The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side squib circuit for 0.5 seconds. - Front passenger side squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib) - Center airbag sensor assembly
B1808/52	- The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side squib circuit for 0.5 seconds. - Front passenger side squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib) - Center airbag sensor assembly

WIRING DIAGRAM**RS****INSPECTION PROCEDURE****HINT:**

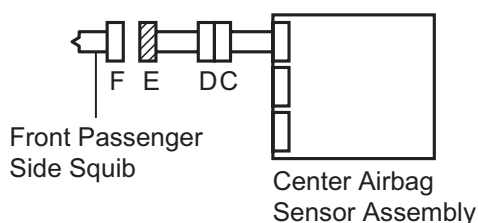
- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1 CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB)

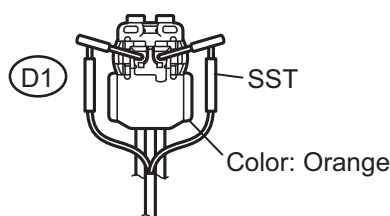
with Rear Side Airbag:



without Rear Side Airbag:

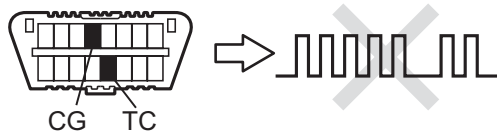


Connector E



DLC3

DTC 52



C142451E01

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- Connect the white wire side of SST (resistance 2.1 Ω) to connector E (orange connector).

CAUTION:

Never connect the tester to the front passenger airbag assembly (front passenger side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1805, B1806, B1807, B1808, or 52 is not output.

HINT:

Codes other than DTC B1805, B1806, B1807, B1808, and 52 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY (See page RS-412)

NG

2 CHECK CONNECTOR

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector E.
- Check that the instrument panel wire assembly connectors (on the front passenger airbag assembly side) are not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY

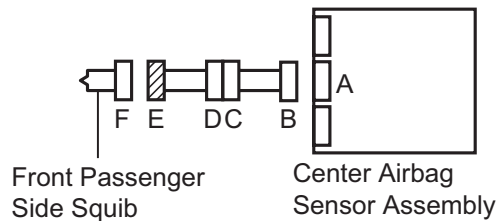
OK

RS

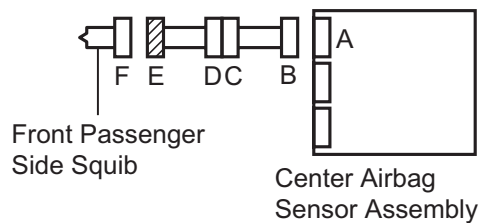
3

CHECK FRONT PASSENGER SIDE SQUIB CIRCUIT

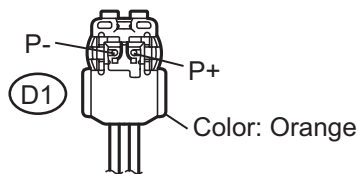
with Rear Side Airbag:



without Rear Side Airbag:



Connector E



C142478E01

- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D1-2 (P+) - Body ground	Engine switch on (IG)	Below 1 V
D1-1 (P-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D1-2 (P+) - D1-1 (P-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D1-2 (P+) - Body ground	Always	1 M Ω or higher
D1-1 (P-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

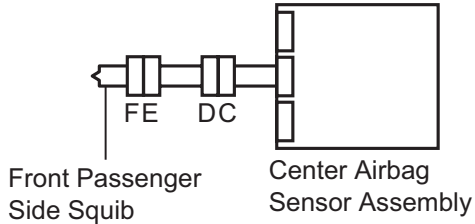
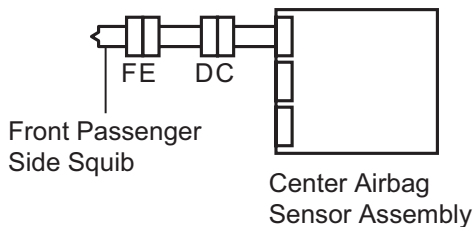
Standard resistance

Tester Connection	Condition	Specified Condition
D1-2 (P+) - D1-1 (P-)	Always	1 M Ω or higher

NG

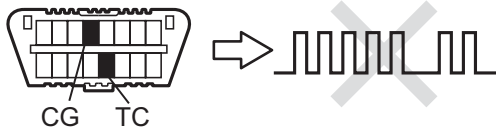
Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY**RS****with Rear Side Airbag:****without Rear Side Airbag:**

DLC3

DTC 52



C142452E01

- Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1805, B1806, B1807, B1808, or 52 is not output.

HINT:

Codes other than DTC B1805, B1806, B1807, B1808, and 52 may be output at this time, but they are not related to this check.

NG

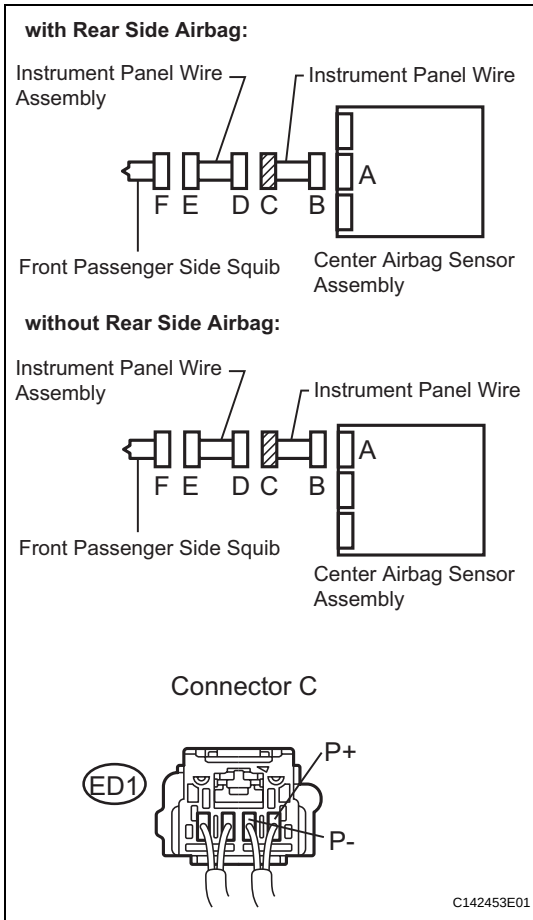
REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

5

CHECK INSTRUMENT PANEL WIRE



- Restore the released activation prevention mechanism of connector B to the original condition.
- Disconnect the instrument panel wire connector from the instrument panel wire assembly.
- Check for a short to B+ in the circuit.
 - Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the engine switch on (IG).
 - Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
ED1-1 (P+) - Body ground	Engine switch on (IG)	Below 1 V
ED1-2 (P-) - Body ground	Engine switch on (IG)	Below 1 V

- Check for an open in the circuit.
 - Turn the engine switch off.
 - Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
ED1-1 (P+) - ED1-2 (P-)	Always	Below 1 Ω

- Check for a short to ground in the circuit.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
ED1-1 (P+) - Body ground	Always	1 M Ω or higher
ED1-2 (P-) - Body ground	Always	1 M Ω or higher

- Check for a short in the circuit.
 - Release the activation prevention mechanism built into connector B (See page RS-37).
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
ED1-1 (P+) - ED1-2 (P-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

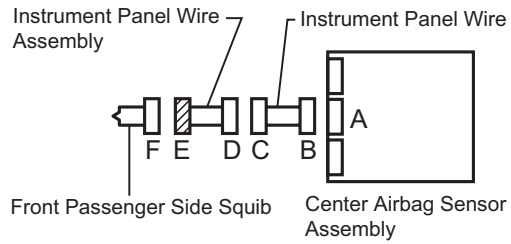
OK

RS

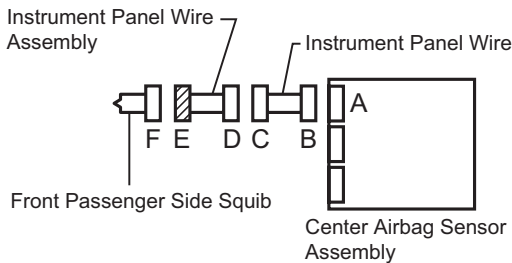
6

CHECK INSTRUMENT PANEL WIRE ASSEMBLY

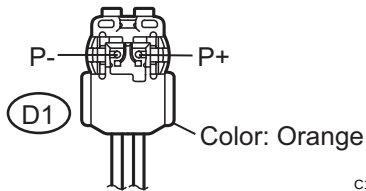
with Rear Side Airbag:



without Rear Side Airbag:



Connector E



C142472E01

(a) Check for a short to B+ in the circuit.

- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (2) Turn the engine switch on (IG).
- (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D1-2 (P+) - Body ground	Engine switch on (IG)	Below 1 V
D1-1 (P-) - Body ground	Engine switch on (IG)	Below 1 V

(b) Check for an open in the circuit.

- (1) Turn the engine switch off.
- (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D1-2 (P+) - D1-1 (P-)	Always	Below 1 Ω

(c) Check for a short to ground in the circuit.

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

Standard resistance

Tester Connection	Condition	Specified Condition
D1-2 (P+) - Body ground	Always	1 M Ω or higher
D1-1 (P-) - Body ground	Always	1 M Ω or higher

(d) Check for a short in the circuit.

- (1) Release the activation prevention mechanism built into connector D (See page RS-37).
- (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D1-2 (P+) - D1-1 (P-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

DTC	B1810/53	Short in Driver Side Squib 2nd Step Circuit
DTC	B1811/53	Open in Driver Side Squib 2nd Step Circuit
DTC	B1812/53	Short to GND in Driver Side Squib 2nd Step Circuit
DTC	B1813/53	Short to B+ in Driver Side Squib 2nd Step Circuit

RS**DESCRIPTION**

The driver side squib 2nd step circuit consists of the center airbag sensor assembly, the spiral cable, and the steering pad.

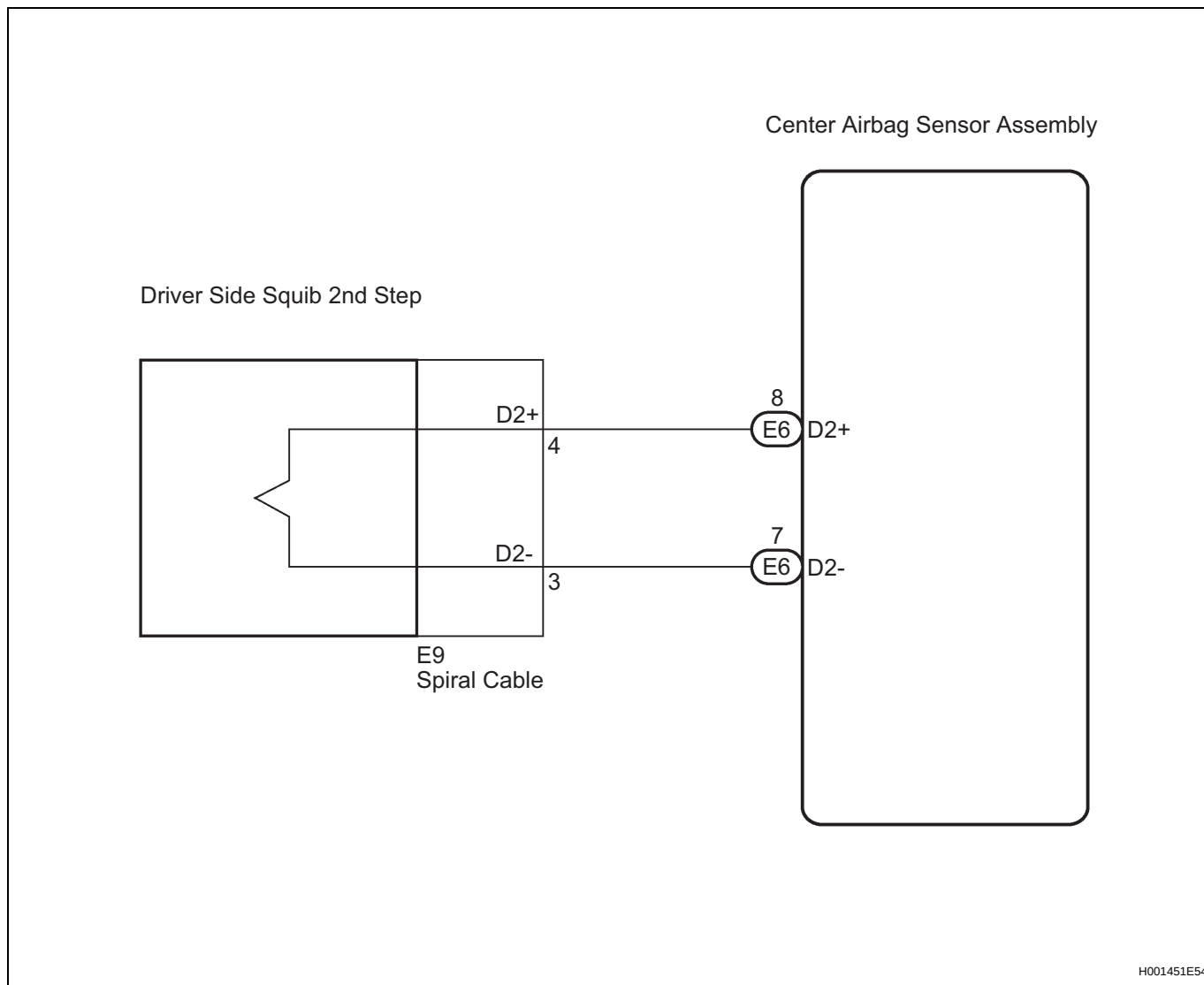
The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the driver side squib 2nd step circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1810/53	- The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side squib 2nd step circuit during primary check. - Driver side squib 2nd step malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib 2nd step) - Center airbag sensor assembly
B1811/53	- The center airbag sensor assembly receives an open circuit signal in the driver side squib 2nd step circuit for 2 seconds. - Driver side squib 2nd step malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib 2nd step) - Center airbag sensor assembly
B1812/53	- The center airbag sensor assembly receives a short circuit to ground signal in the driver side 2nd step circuit for 0.5 seconds. - Driver side squib 2nd step malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib 2nd step) - Center airbag sensor assembly
B1813/53	- The center airbag sensor assembly receives a short circuit to B+ signal in the driver side squib 2nd step circuit for 0.5 seconds. - Driver side squib 2nd step malfunction - Spiral cable malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Spiral cable - Steering pad (Driver side squib 2nd step) - Center airbag sensor assembly

WIRING DIAGRAM

RS



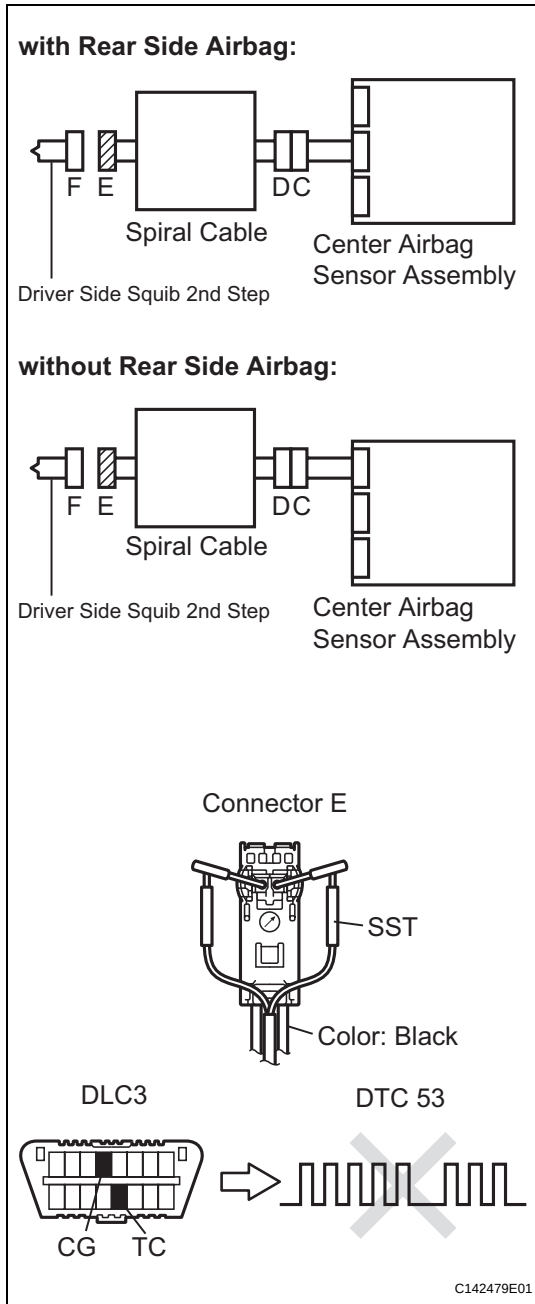
INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1 CHECK STEERING PAD (DRIVER SIDE SQUIB 2ND STEP)

RS



- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the steering pad.
- Connect the white wire side of SST (resistance 2.1Ω) to connector E (black connector).

CAUTION:

Never connect the tester to the steering pad (driver side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1810, B1811, B1812, B1813, or 53 is not output.

HINT:

Codes other than DTC B1810, B1811, B1812, B1813, and 53 may be output at this time, but they are not related to this check.

OK

REPLACE STEERING PAD (See page RS-366)

NG

2 CHECK CONNECTOR

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector E.
- Check that the spiral cable connectors (on the steering pad side) are not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPLACE SPIRAL CABLE (See page RS-379)

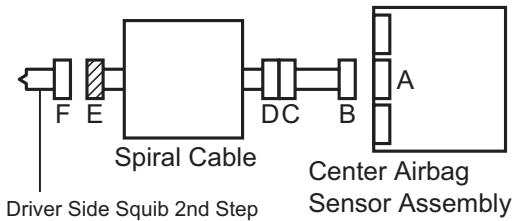
RS

OK

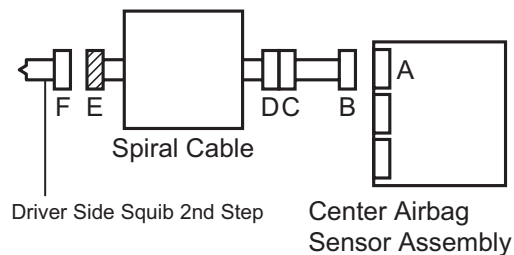
3

CHECK DRIVER SIDE SQUIB 2ND STEP CIRCUIT

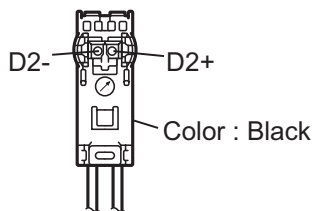
with Rear Side Airbag:



without Rear Side Airbag:



Connector E



C142481E01

- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D2+ - Body ground	Engine switch on (IG)	Below 1 V
D2- - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2+ - D2-	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2+ - Body ground	Always	1 M Ω or higher
D2- - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

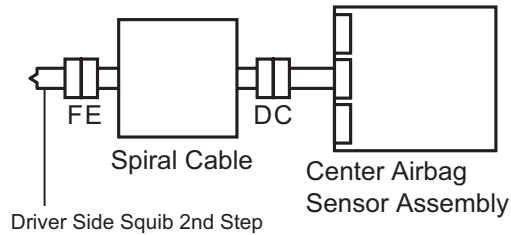
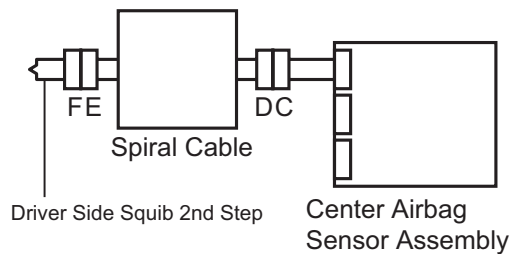
Standard resistance

Tester Connection	Condition	Specified Condition
D2+ - D2-	Always	1 M Ω or higher

NG

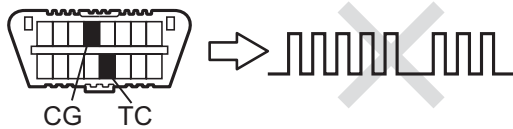
Go to step 5

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY**with Rear Side Airbag:****without Rear Side Airbag:**

DLC3

DTC 53



C142455E01

- (a) Connect the connectors to the steering pad 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 engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-49).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-49).

OK:

DTC B1810, B1811, B1812, B1813, or 53 is not output.

HINT:

Codes other than DTC B1810, B1811, B1812, B1813, and 53 may be output at this time, but they are not related to this check.

NG

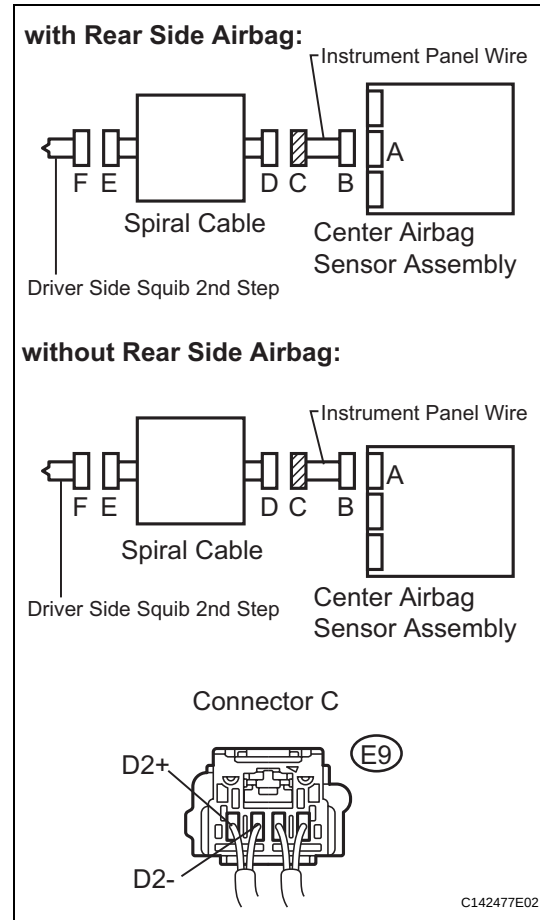
REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

5 CHECK INSTRUMENT PANEL WIRE



- (a) Check for a short to B+ in the circuit.
- (1) Restore the released activation prevention mechanism of connector B to the original condition.
 - (2) Disconnect the instrument panel wire connector from the spiral cable.
 - (3) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (4) Turn the engine switch on (IG).
 - (5) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
E9-4 (D2+) - Body ground	Engine switch on (IG)	Below 1 V
E9-3 (D2-) - Body ground	Engine switch on (IG)	Below 1 V

- (b) Check for an open in the circuit.
- (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E9-4 (D2+) - E9-3 (D2-)	Always	Below 1 Ω

- (c) Check for a short to ground in the circuit.
- (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E9-4 (D2+) - Body ground	Always	1 M Ω or higher
E9-3 (D2-) - Body ground	Always	1 M Ω or higher

- (d) Check for a short in the circuit.
- (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E9-4 (D2+) - E9-3 (D2-)	Always	1 M Ω or higher

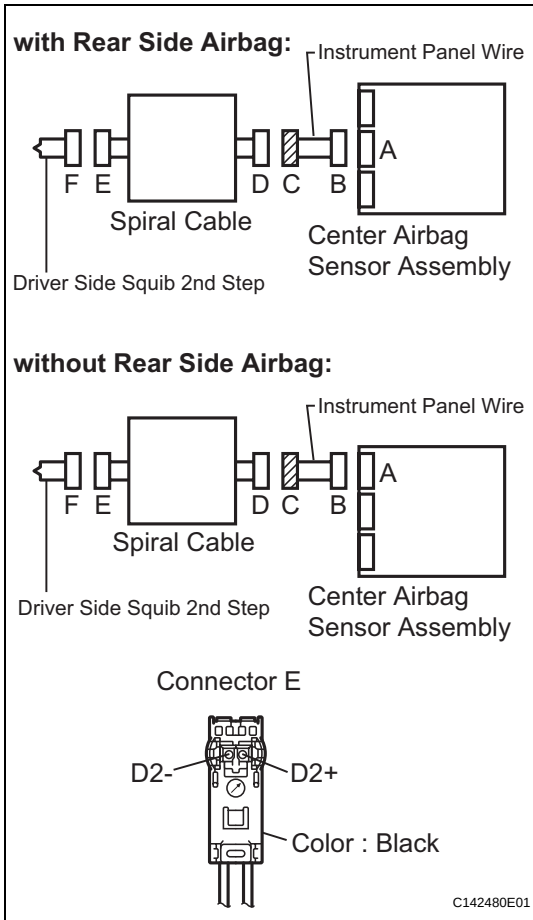
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY

OK

6

CHECK SPIRAL CABLE



(a) Check for a short to B+ in the circuit.

- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (2) Turn the engine switch on (IG).
- (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D2+ - Body ground	Engine switch on (IG)	Below 1 V
D2- - Body ground	Engine switch on (IG)	Below 1 V

(b) Check for an open in the circuit.

- (1) Turn the engine switch off.
- (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2+ - D2-	Always	Below 1 Ω

(c) Check for a short to ground in the circuit.

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

Standard resistance

Tester Connection	Condition	Specified Condition
D2+ - Body ground	Always	1 M Ω or higher
D2- - Body ground	Always	1 M Ω or higher

(d) Check for a short in the circuit.

- (1) Release the activation prevention mechanism built into connector D (See page RS-37).
- (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2+ - D2-	Always	1 M Ω or higher

NG

REPLACE SPIRAL CABLE (See page RS-379)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

RS

DTC	B1815/54	Short in Front Passenger Side Squib 2nd Step Circuit
DTC	B1816/54	Open in Front Passenger Side Squib 2nd Step Circuit
DTC	B1817/54	Short to GND in Front Passenger Side Squib 2nd Step Circuit
DTC	B1818/54	Short to B+ in Front Passenger Side Squib 2nd Step Circuit

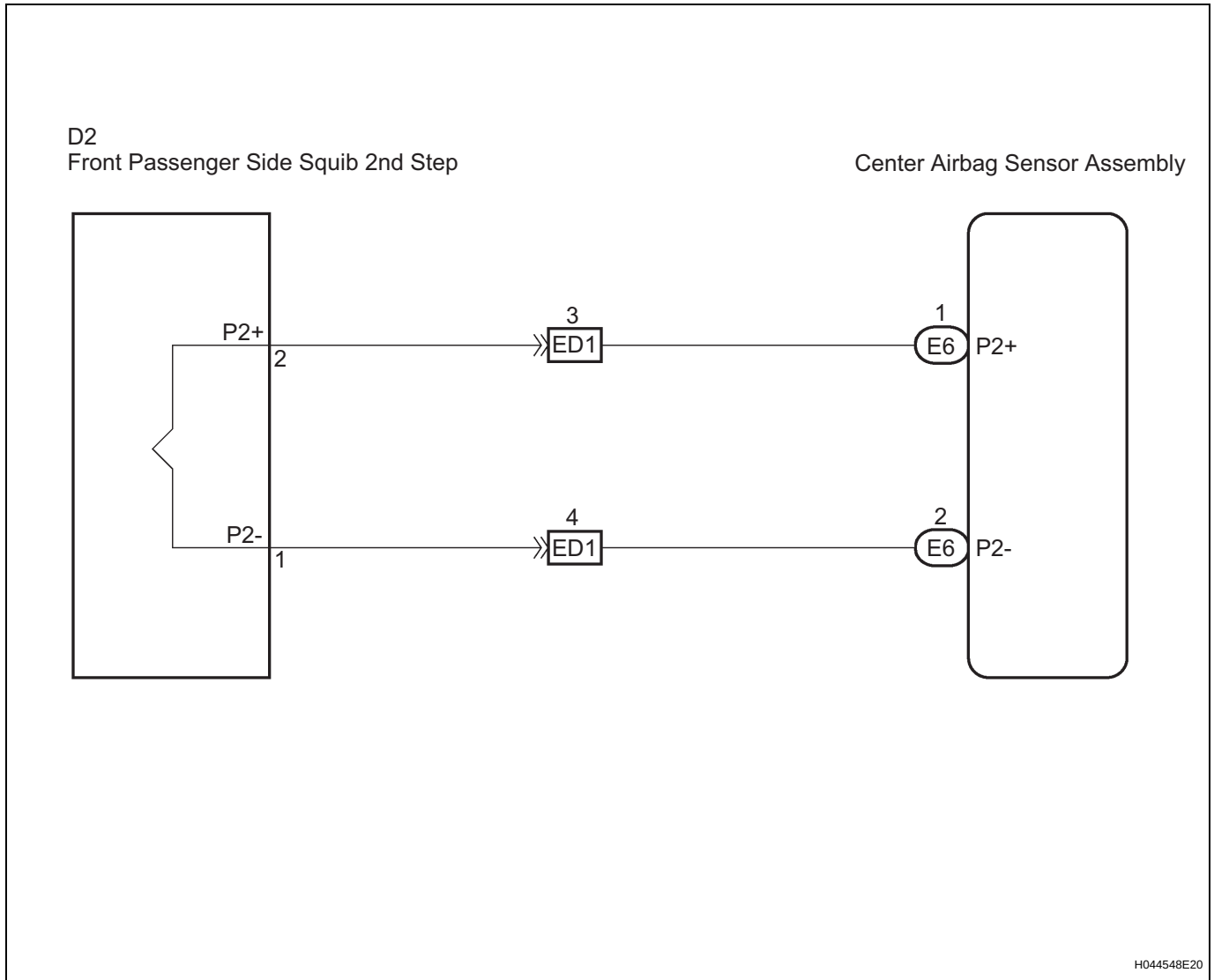
DESCRIPTION

The front passenger side squib 2nd step circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.

The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side squib 2nd step circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1815/54	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side squib 2nd step circuit during primary check. - Front passenger side squib 2nd step malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib 2nd step) - Center airbag sensor assembly
B1816/54	- The center airbag sensor assembly receives an open circuit signal in the front passenger side squib 2nd step circuit for 2 seconds. - Front passenger side squib 2nd step malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib 2nd step) - Center airbag sensor assembly
B1817/54	- The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side squib 2nd step circuit for 0.5 seconds. - Front passenger side squib 2nd step malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib 2nd step) - Center airbag sensor assembly
B1818/54	- The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side squib 2nd step circuit for 0.5 seconds. - Front passenger side squib 2nd step malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire assembly - Front passenger airbag assembly (Front passenger side squib 2nd step) - Center airbag sensor assembly

WIRING DIAGRAM**RS****INSPECTION PROCEDURE****HINT:**

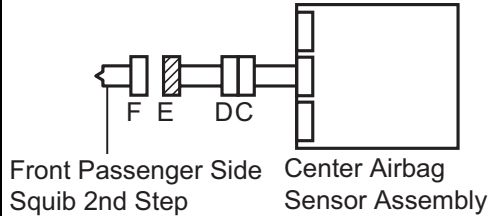
- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1

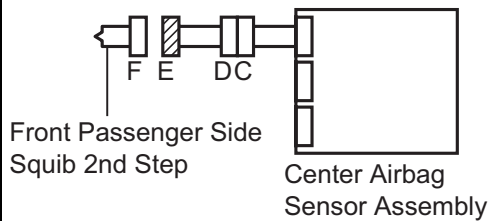
CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB 2ND STEP)

RS

with Rear Side Airbag:

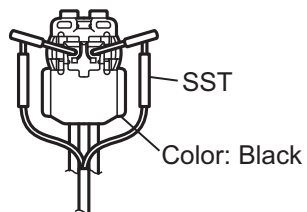


without Rear Side Airbag:



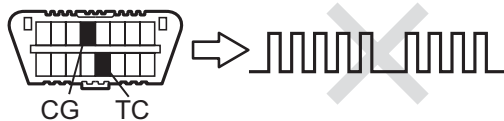
Connector E

(D2)



DLC3

DTC 54



C142482E01

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag assembly.
- Connect the white wire side of SST (resistance 2.1 Ω) to connector E (black connector).

CAUTION:

Never connect the tester to the front passenger airbag assembly (front passenger side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1815, B1816, B1817, B1818, or 54 is not output.

HINT:

Codes other than DTC B1815, B1816, B1817, B1818, and 54 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY (See page RS-412)

NG

2

CHECK CONNECTOR

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector E.
- Check that the instrument panel wire assembly connectors (on the front passenger airbag assembly side) are not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not damaged or deformed.

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY

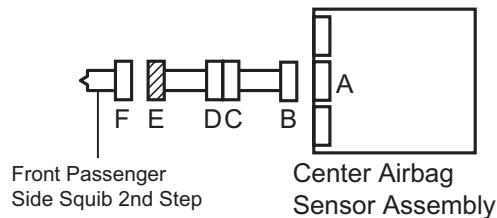
OK

RS

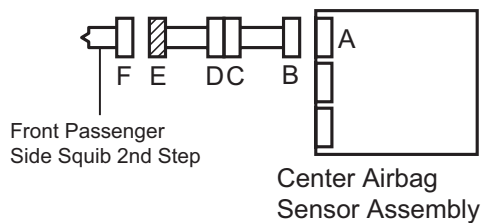
3

CHECK FRONT PASSENGER SIDE SQUIB 2ND STEP CIRCUIT

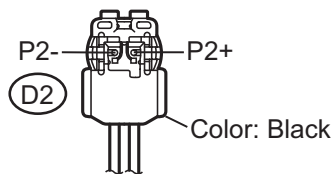
with Rear Side Airbag:



without Rear Side Airbag:



Connector E



C142478E02

- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - Body ground	Engine switch on (IG)	Below 1 V
D2-1 (P2-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - D2-1 (P2-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - Body ground	Always	1 M Ω or higher
D2-1 (P2-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - D2-1 (P2-)	Always	1 M Ω or higher

NG

Go to step 5

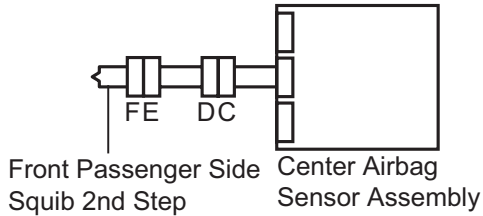
OK

RS

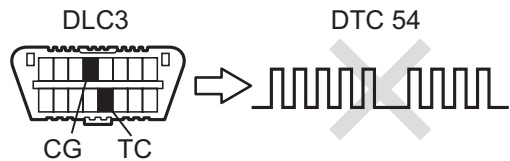
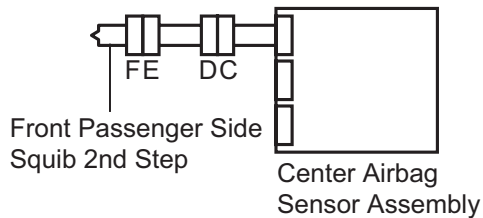
4

CHECK CENTER AIRBAG SENSOR ASSEMBLY

with Rear Side Squib:



without Rear Side Squib:



C142485E01

- Connect the connectors to the front passenger airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1815, B1816, B1817, B1818, or 54 is not output.

HINT:

Codes other than DTC B1815, B1816, B1817, B1818, and 54 may be output at this time, but they are not related to this check.

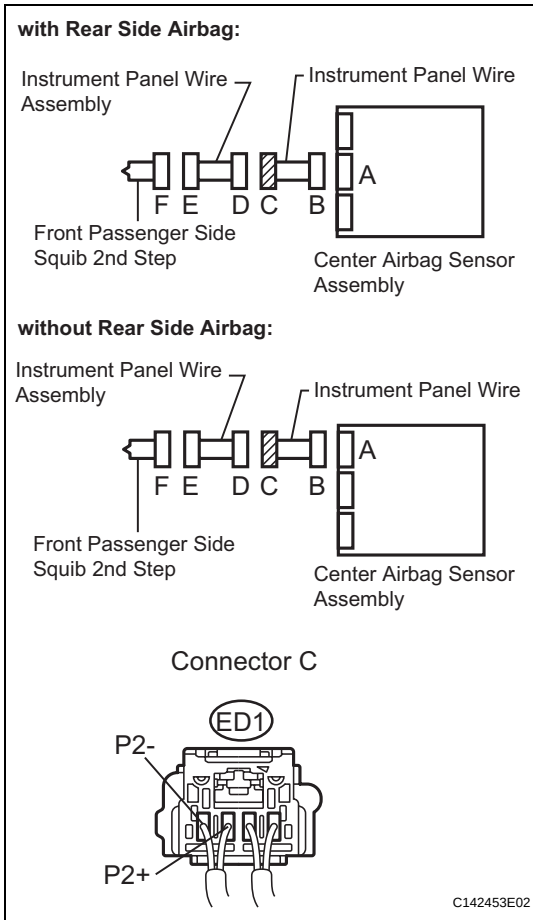
NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

5 CHECK INSTRUMENT PANEL WIRE



- (a) Check for a short to B+ in the circuit.
- (1) Restore the released activation prevention mechanism of connector B to the original condition.
 - (2) Disconnect the instrument panel wire connector from the instrument panel wire assembly.
 - (3) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (4) Turn the engine switch on (IG).
 - (5) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
ED1-3 (P2+) - Body ground	Engine switch on (IG)	Below 1 V
ED1-4 (P2-) - Body ground	Engine switch on (IG)	Below 1 V

- (b) Check for an open in the circuit.
- (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
ED1-3 (P2+) - ED1-4 (P2-)	Always	Below 1 Ω

- (c) Check for a short to ground in the circuit.
- (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
ED1-3 (P2+) - Body ground	Always	1 M Ω or higher
ED1-4 (P2-) - Body ground	Always	1 M Ω or higher

- (d) Check for a short in the circuit.
- (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
ED1-3 (P2+) - ED1-4 (P2-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

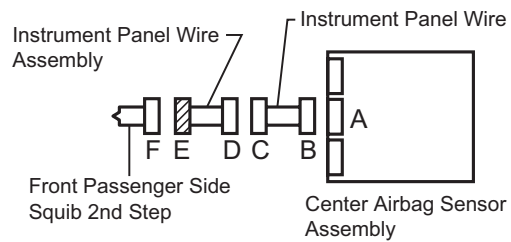
OK

RS

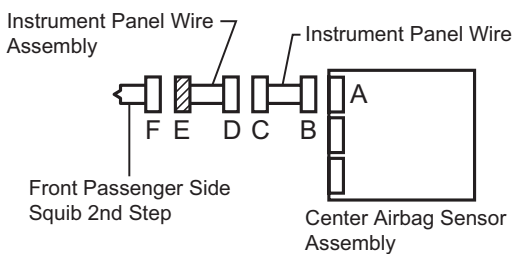
6

CHECK INSTRUMENT PANEL WIRE ASSEMBLY

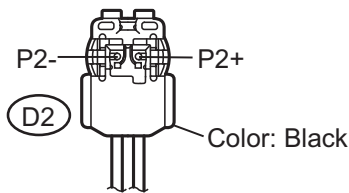
with Rear Side Airbag:



without Rear Side Airbag:



Connector E



C142472E02

(a) Check for a short to B+ in the circuit.

- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (2) Turn the engine switch on (IG).
- (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - Body ground	Engine switch on (IG)	Below 1 V
D2-1 (P2-) - Body ground	Engine switch on (IG)	Below 1 V

(b) Check for an open in the circuit.

- (1) Turn the engine switch off.
- (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - D2-1 (P2-)	Always	Below 1 Ω

(c) Check for a short to ground in the circuit.

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

Standard resistance

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - Body ground	Always	1 MΩ or higher
D2-1 (P2-) - Body ground	Always	1 MΩ or higher

(d) Check for a short in the circuit.

- (1) Release the activation prevention mechanism built into connector D (See page RS-37).
- (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
D2-2 (P2+) - D2-1 (P2-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

DTC	B1820/55	Short in Front Driver Side - Side Squib Circuit
DTC	B1821/55	Open in Front Driver Side - Side Squib Circuit
DTC	B1822/55	Short to GND in Front Driver Side - Side Squib Circuit
DTC	B1823/55	Short to B+ in Front Driver Side - Side Squib Circuit

RS**DESCRIPTION**

The front driver side - side squib circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH.

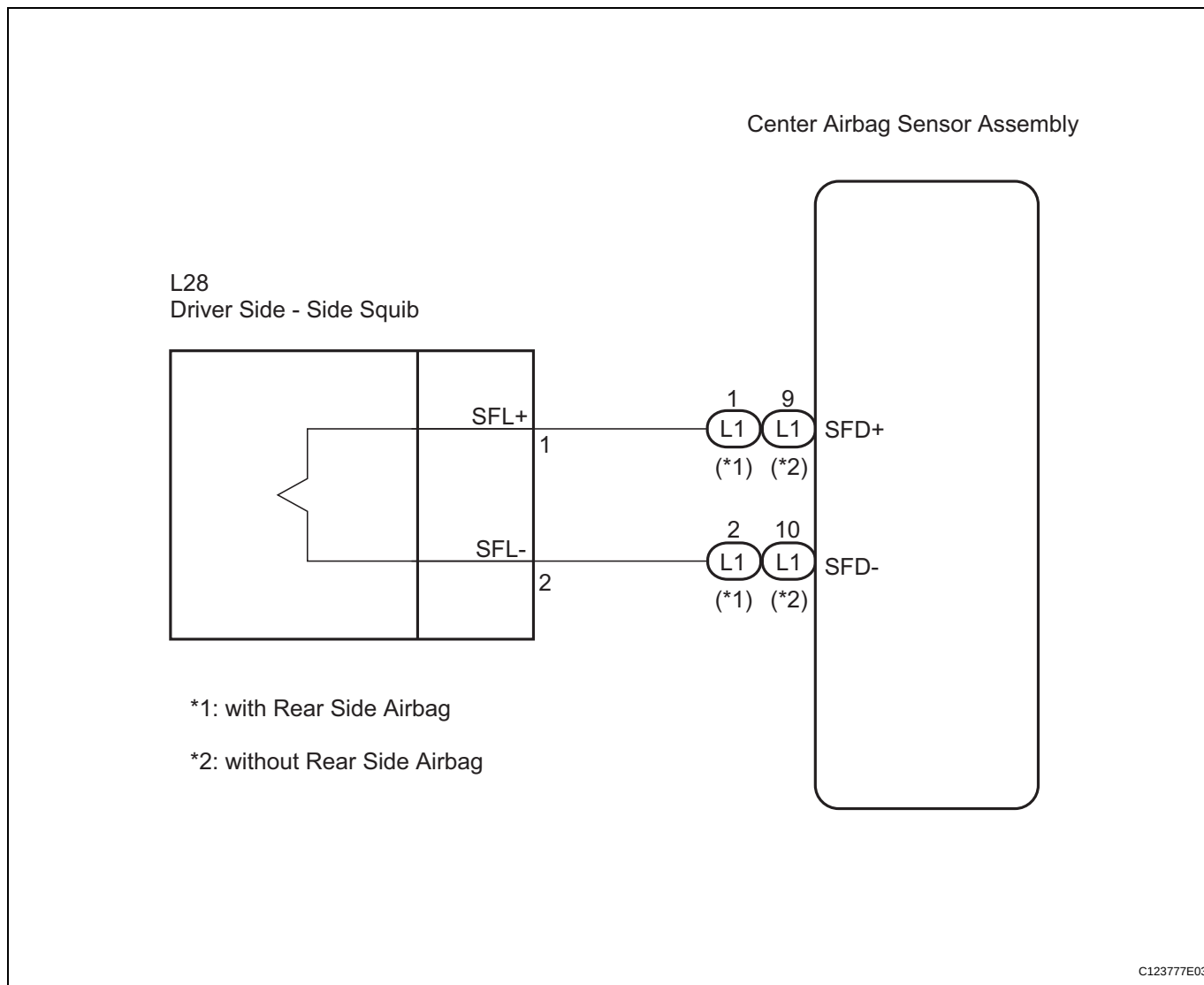
This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front driver side - side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1820/55	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front driver side - side squib circuit during primary check. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly
B1821/55	- The center airbag sensor assembly receives an open circuit signal in the front driver side - side squib circuit for 2 seconds. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly
B1822/55	- The center airbag sensor assembly receives a short circuit to ground signal in the front driver side - side squib circuit for 0.5 seconds. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly
B1823/55	- The center airbag sensor assembly receives a short circuit to B+ signal in the front driver side - side squib circuit for 0.5 seconds. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly

WIRING DIAGRAM

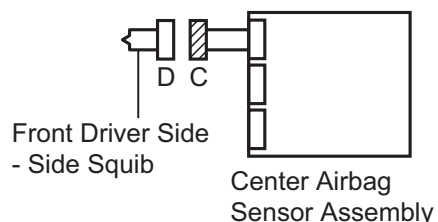
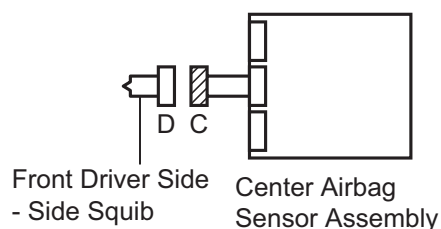
RS



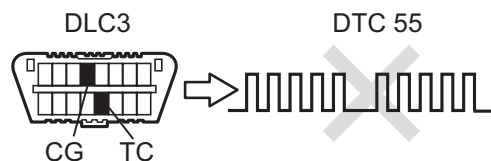
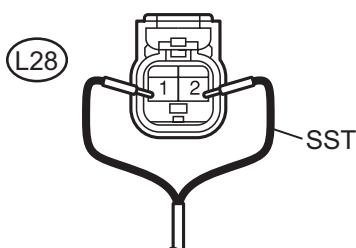
INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1**CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (FRONT DRIVER SIDE - SIDE SQUIB)****with Rear Side Airbag:****without Rear Side Airbag:**

Connector C



C142486E01

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the front seat side airbag assembly LH.
- (d) Connect the black wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the front seat side airbag assembly LH (front driver side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1820, B1821, B1822, B1823, or 55 is not output.

HINT:

Codes other than DTC B1820, B1821, B1822, B1823, and 55 may be output at this time, but they are not related to this check.

OK

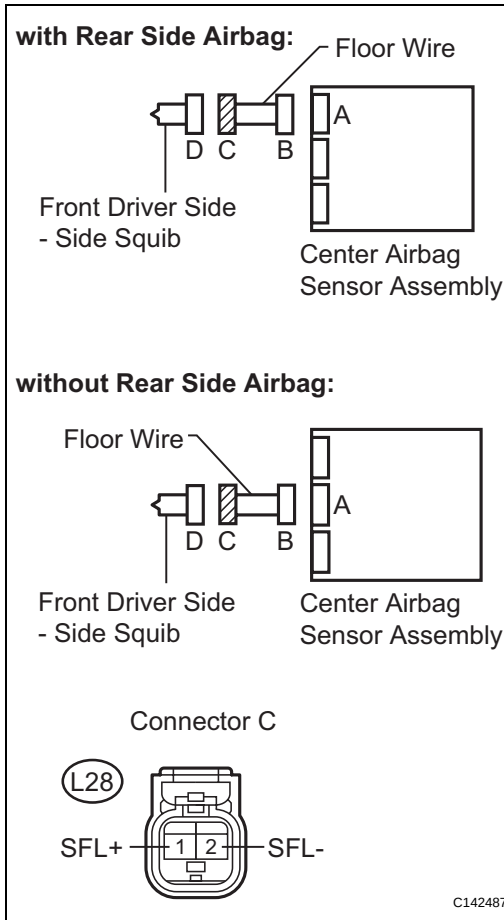
REPLACE FRONT SEAT ASSEMBLY LH (See page SE-83)

NG**RS**

2

CHECK FLOOR WIRE (FRONT DRIVER SIDE - SIDE SQUIB CIRCUIT)

RS



- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector C.
- Disconnect the connectors from the center airbag sensor assembly.
- Check for a short to B+ in the circuit.
 - Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the engine switch on (IG).
 - Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
L28-1 (SFL+) - Body ground	Engine switch on (IG)	Below 1 V
L28-2 (SFL-) - Body ground	Engine switch on (IG)	Below 1 V

- Check for an open in the circuit.
 - Turn the engine switch off.
 - Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L28-1 (SFL+) - L28-2 (SFL-)	Always	Below 1 Ω

- Check for a short to ground in the circuit.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L28-1 (SFL+) - Body ground	Always	1 M Ω or higher
L28-2 (SFL-) - Body ground	Always	1 M Ω or higher

- Check for a short in the circuit.
 - Release the activation prevention mechanism built into connector B (See page [RS-37](#)).
 - Measure the resistance according to the value(s) in the table below.

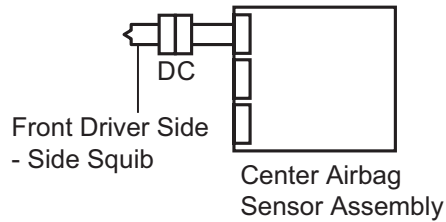
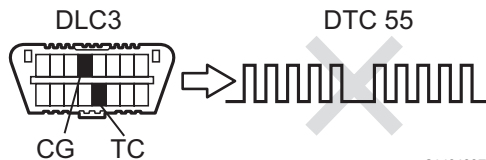
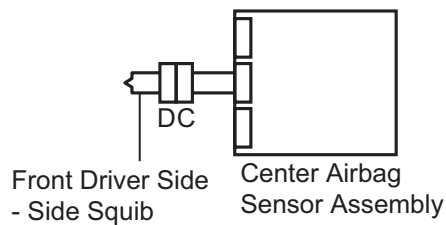
Standard resistance

Tester Connection	Condition	Specified Condition
L28-1 (SFL+) - L28-2 (SFL-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY**with Rear Side Airbag:****without Rear Side Airbag:**

- Connect the connectors to the front seat side airbag assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1820, B1821, B1822, B1823, or 55 is not output.

HINT:

Codes other than DTC B1820, B1821, B1822, B1823, and 55 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

RS

DTC	B1825/56	Short in Front Passenger Side - Side Squib Circuit
DTC	B1826/56	Open in Front Passenger Side - Side Squib Circuit
DTC	B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit
DTC	B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit

DESCRIPTION

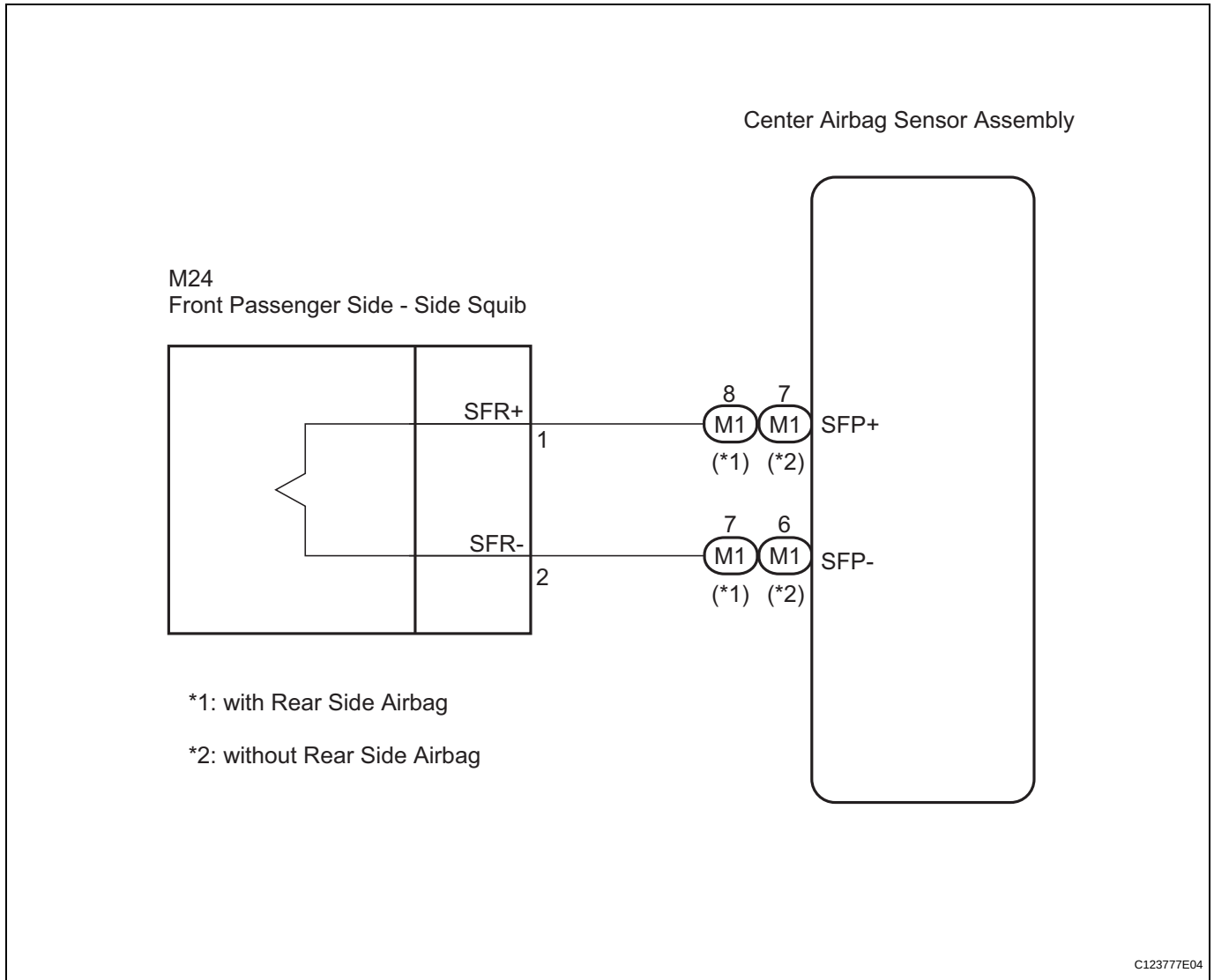
The front passenger side - side squib circuit consists of the center airbag sensor assembly and the front seat side airbag assembly RH.

The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side - side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1825/56	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side - side squib circuit during primary check. - Front passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat side airbag assembly RH (Front passenger side - side squib) - Center airbag sensor assembly
B1826/56	- The center airbag sensor assembly receives an open circuit signal in the front passenger side - side squib circuit for 2 seconds. - Front passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat side airbag assembly RH (Front passenger side - side squib) - Center airbag sensor assembly
B1827/56	- The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side - side squib circuit for 0.5 seconds. - Front passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat side airbag assembly RH (Front passenger side - side squib) - Center airbag sensor assembly
B1828/56	- The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side - side squib circuit for 0.5 seconds. - Front passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat side airbag assembly RH (Front passenger side - side squib) - Center airbag sensor assembly

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

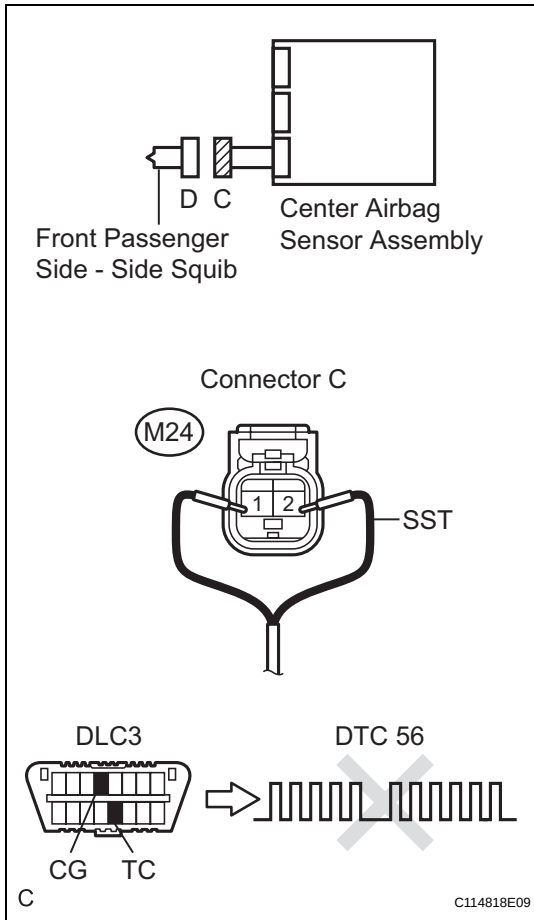
HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1

CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (FRONT PASSENGER SIDE - SIDE SQUIB)

RS



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the front seat side airbag assembly RH.
- (d) Connect the black wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the front seat side airbag assembly RH (front passenger side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

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- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page [RS-49](#)).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page [RS-49](#)).

OK:

DTC B1825, B1826, B1827, B1828, or 56 is not output.

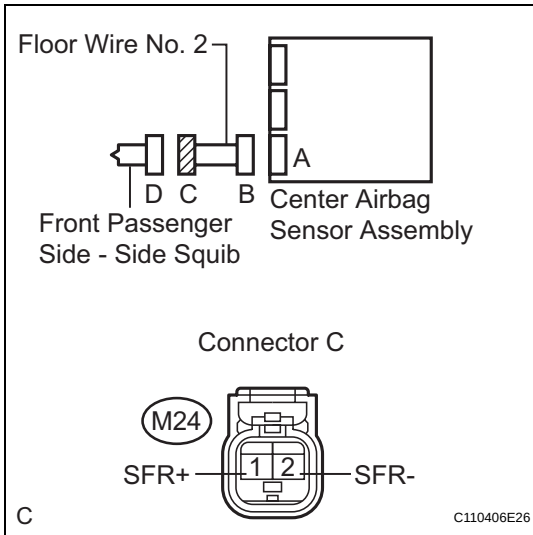
HINT:

Codes other than DTC B1825, B1826, B1827, B1828, and 56 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT SEAT ASSEMBLY RH (See page [SE-83](#))

NG

2**CHECK FLOOR WIRE NO. 2 (FRONT PASSENGER SIDE - SIDE SQUIB CIRCUIT)**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Disconnect the connectors from the center airbag sensor assembly.
- (e) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
M24-1 (SFR+) - Body ground	Engine switch on (IG)	Below 1 V
M24-2 (SFR-) - Body ground	Engine switch on (IG)	Below 1 V

- (f) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M24-1 (SFR+) - M24-2 (SFR-)	Always	Below 1 Ω

- (g) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M24-1 (SFR+) - Body ground	Always	1 M Ω or higher
M24-2 (SFR-) - Body ground	Always	1 M Ω or higher

- (h) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

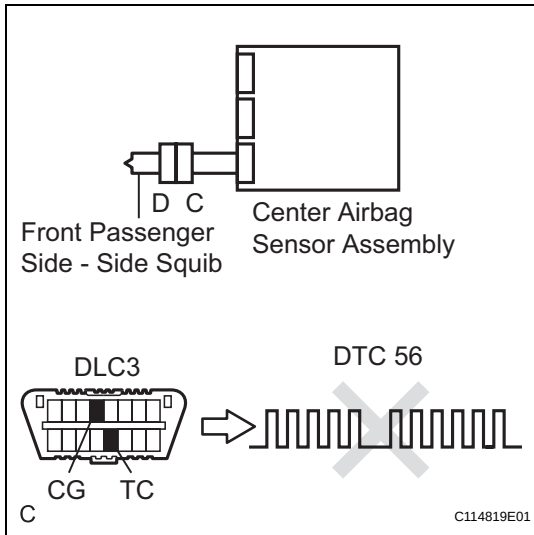
Tester Connection	Condition	Specified Condition
M24-1 (SFR+) - M24-2 (SFR-)	Always	1 M Ω or higher

NG**REPAIR OR REPLACE FLOOR WIRE NO. 2****RS**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY

RS



- Connect the connectors to the front seat side airbag assembly RH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1825, B1826, B1827, B1828, or 56 is not output.

HINT:

Codes other than DTC B1825, B1826, B1827, B1828, and 56 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

DTC	B1830/57	Short in Driver Side Curtain Shield Squib Circuit
DTC	B1831/57	Open in Driver Side Curtain Shield Squib Circuit
DTC	B1832/57	Short to GND in Driver Side Curtain Shield Squib Circuit
DTC	B1833/57	Short to B+ in Driver Side Curtain Shield Squib Circuit

RS

DESCRIPTION

The driver side curtain shield squib circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly LH.

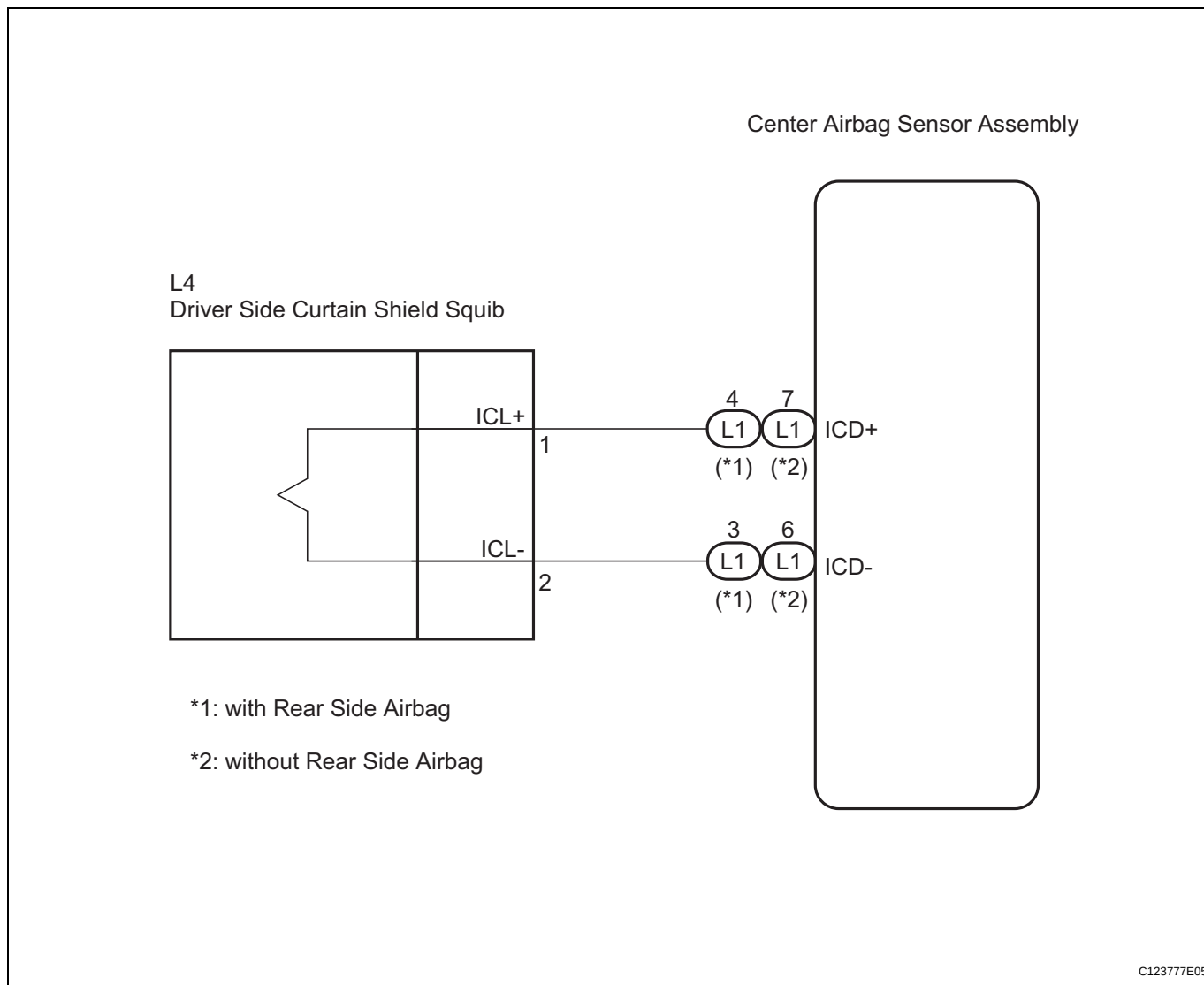
The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the driver side curtain shield squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1830/57	- The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side curtain shield squib circuit during primary check. - Driver side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Curtain shield airbag assembly LH (Driver side curtain shield squib) - Center airbag sensor assembly
B1831/57	- The center airbag sensor assembly receives an open circuit signal in the driver side curtain shield squib circuit for 2 seconds. - Driver side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Curtain shield airbag assembly LH (Driver side curtain shield squib) - Center airbag sensor assembly
B1832/57	- The center airbag sensor assembly receives a short circuit to ground signal in the driver side curtain shield squib circuit for 0.5 seconds. - Driver side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Curtain shield airbag assembly LH (Driver side curtain shield squib) - Center airbag sensor assembly
B1833/57	- The center airbag sensor assembly receives a short circuit to B+ signal in the driver side curtain shield squib circuit for 0.5 seconds. - Driver side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Curtain shield airbag assembly LH (Driver side curtain shield squib) - Center airbag sensor assembly

WIRING DIAGRAM

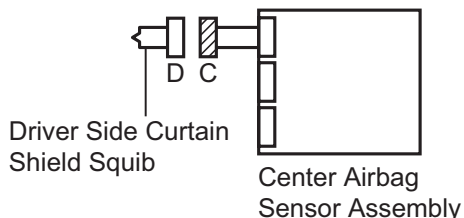
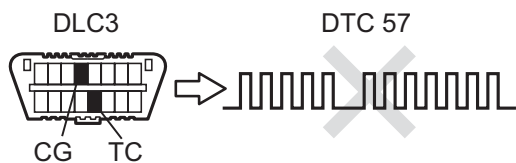
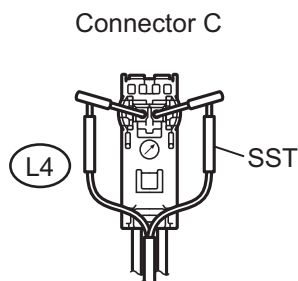
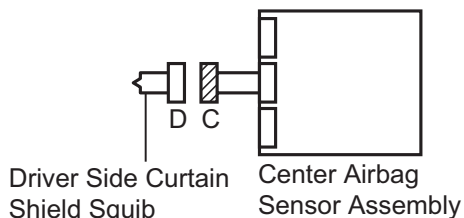
RS



INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1**CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (DRIVER SIDE CURTAIN SHIELD SQUIB)****with Rear Side Airbag:****without Rear Side Airbag:**

C142489E01

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the curtain shield airbag assembly LH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the curtain shield airbag assembly LH (driver side curtain shield squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1830, B1831, B1832, B1833, or 57 is not output.

HINT:

Codes other than DTC B1830, B1831, B1832, B1833, and 57 may be output at this time, but they are not related to this check.

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH (See page RS-435)

NG**2****CHECK CONNECTOR**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Check that the floor wire connector (on the curtain shield airbag assembly LH side) is not damaged.

RS

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

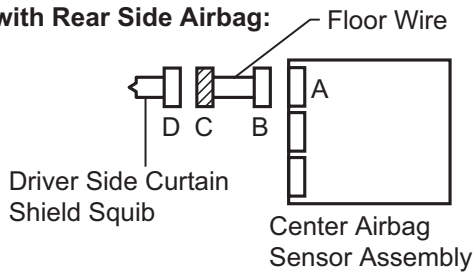
RS

OK

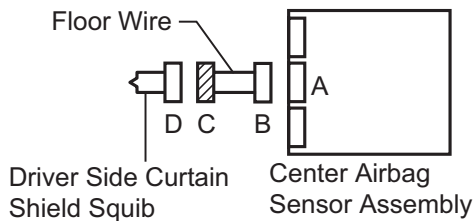
3

CHECK FLOOR WIRE (DRIVER SIDE CURTAIN SHIELD SQUIB CIRCUIT)

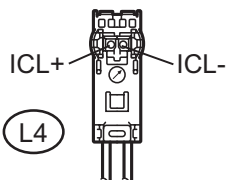
with Rear Side Airbag:



without Rear Side Airbag:



Connector C



C142490E01

(a) Disconnect the connectors from the center airbag sensor assembly.

(b) Check for a short to B+ in the circuit.

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

(2) Turn the engine switch on (IG).

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

Standard voltage

Tester Connection	Condition	Specified Condition
L4-1 (ICL+) - Body ground	Engine switch on (IG)	Below 1 V
L4-2 (ICL-) - Body ground	Engine switch on (IG)	Below 1 V

(c) Check for an open in the circuit.

(1) Turn the engine switch off.

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
L4-1 (ICL+) - L4-2 (ICL-)	Always	Below 1 Ω

(d) Check for a short to ground in the circuit.

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

Standard resistance

Tester Connection	Condition	Specified Condition
L4-1 (ICL+) - Body ground	Always	1 M Ω or higher
L4-2 (ICL-) - Body ground	Always	1 M Ω or higher

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B (See page RS-37).

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

Standard resistance

Tester Connection	Condition	Specified Condition
L4-1 (ICL+) - L4-2 (ICL-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE

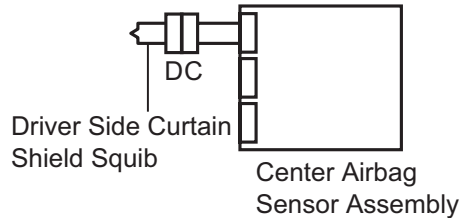
OK

4

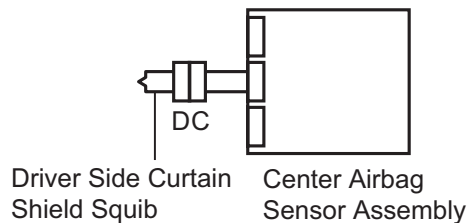
CHECK CENTER AIRBAG SENSOR ASSEMBLY

RS

with Rear Side Airbag:

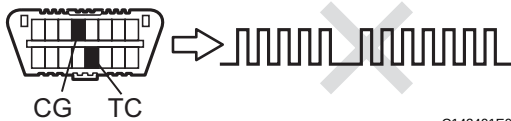


without Rear Side Airbag:



DLC3

DTC 57



C142491E01

- Connect the connectors to the curtain shield airbag assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1830, B1831, B1832, B1833, or 57 is not output.

HINT:

Codes other than DTC B1830, B1831, B1832, B1833, and 57 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

DTC	B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit
DTC	B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit
DTC	B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit
DTC	B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit

DESCRIPTION

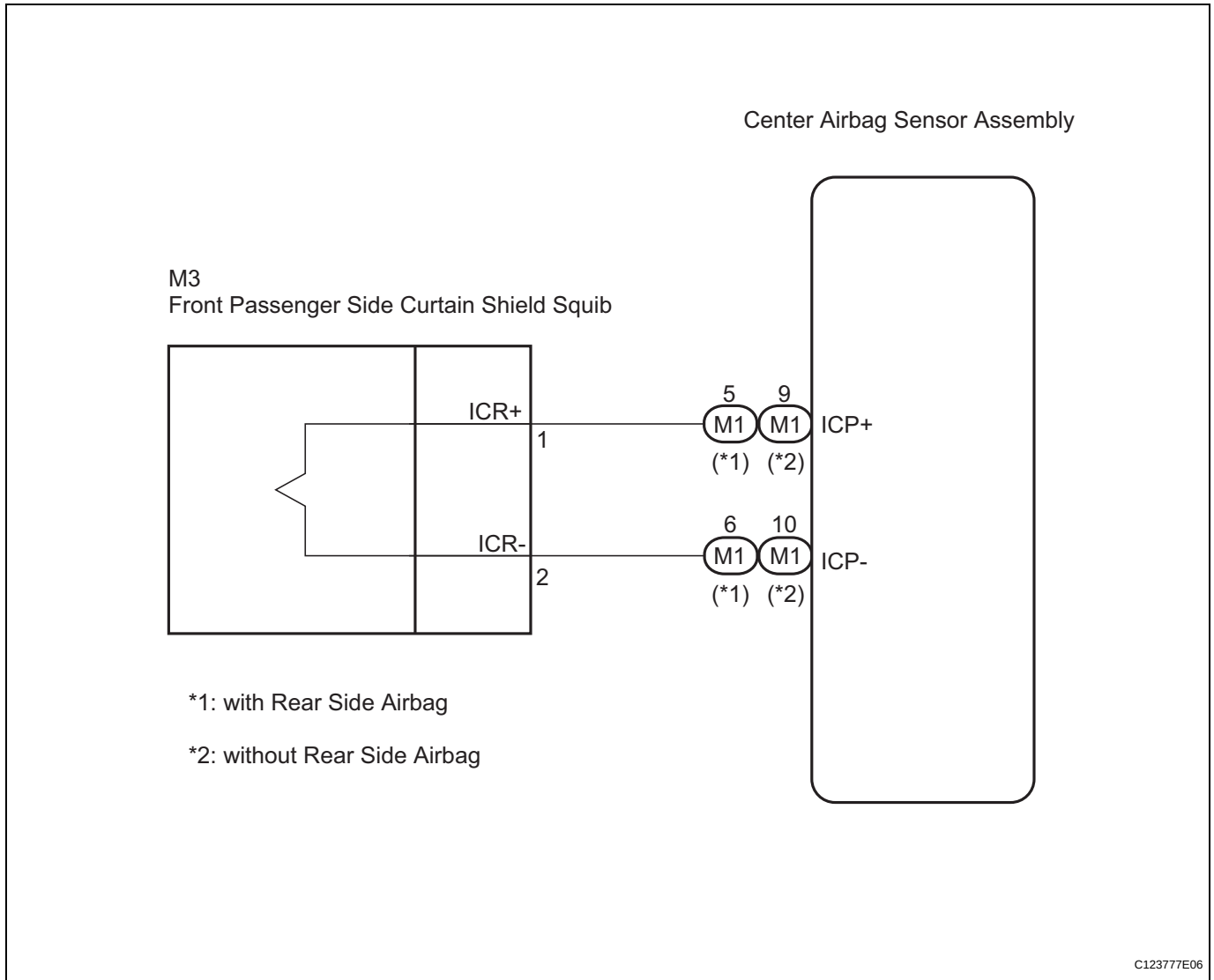
The front passenger side curtain shield squib circuit consists of the center airbag sensor assembly and the curtain shield airbag assembly RH.

The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side curtain shield squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1835/58	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side curtain shield squib circuit during primary check. - Front passenger side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Curtain shield airbag assembly RH (Front passenger side curtain shield squib) - Center airbag sensor assembly
B1836/58	- The center airbag sensor assembly receives an open circuit signal in the front passenger side curtain shield squib circuit for 2 seconds. - Front passenger side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Curtain shield airbag assembly RH (Front passenger side curtain shield squib) - Center airbag sensor assembly
B1837/58	- The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side curtain shield squib circuit for 0.5 seconds. - Front passenger side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Curtain shield airbag assembly RH (Front passenger side curtain shield squib) - Center airbag sensor assembly
B1838/58	- The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side curtain shield squib circuit for 0.5 seconds. - Front passenger side curtain shield squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Curtain shield airbag assembly RH (Front passenger side curtain shield squib) - Center airbag sensor assembly

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

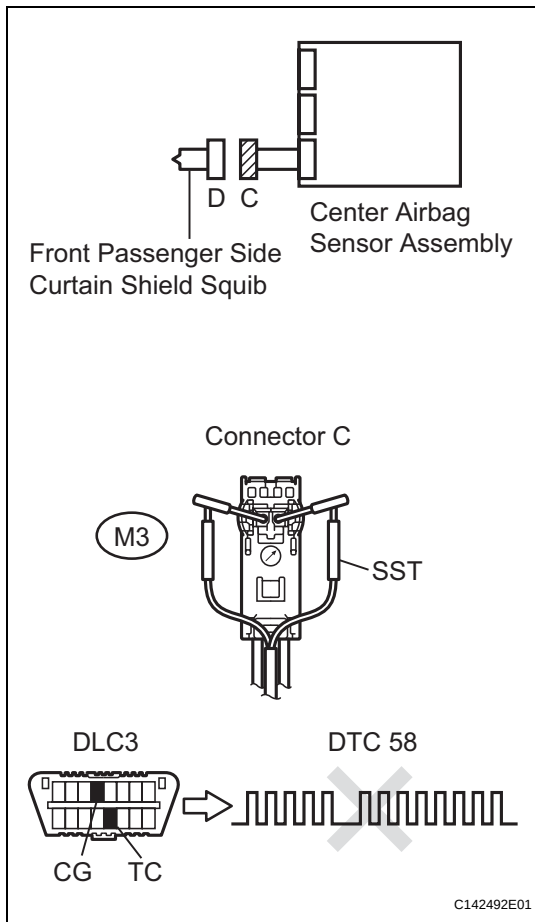
HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1

CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (FRONT PASSENGER SIDE CURTAIN SHIELD SQUIB)

RS



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the curtain shield airbag assembly RH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the curtain shield airbag assembly RH (front passenger side curtain shield squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1835, B1836, B1837, B1838, or 58 is not output.

HINT:

Codes other than DTC B1835, B1836, B1837, B1838, and 58 may be output at this time, but they are not related to this check.

OK

REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH (See page RS-435)

NG

2

CHECK CONNECTOR

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Check that the floor wire No. 2 connectors (on the curtain shield airbag assembly RH side) are not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

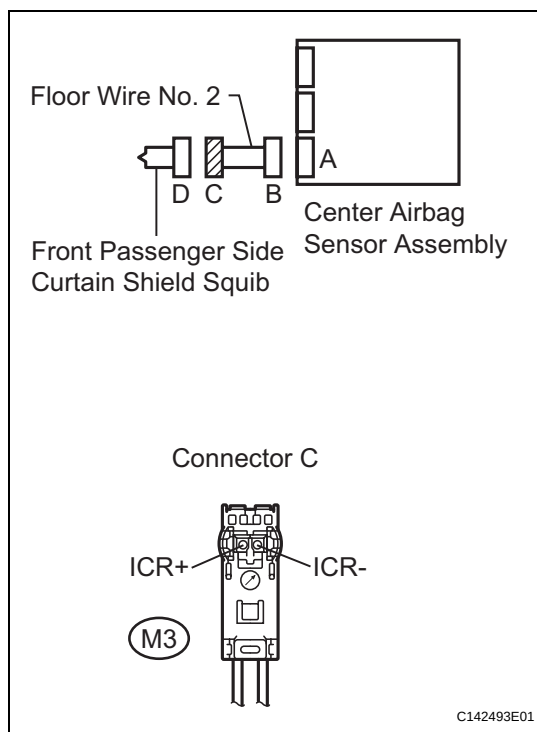
REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

RS

3

CHECK FLOOR WIRE NO. 2 (FRONT PASSENGER SIDE CURTAIN SHIELD SQUIB CIRCUIT)



- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
M3-1 (ICR+) - Body ground	Engine switch on (IG)	Below 1 V
M3-2 (ICR-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M3-1 (ICR+) - M3-2 (ICR-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M3-1 (ICR+) - Body ground	Always	1 M Ω or higher
M3-2 (ICR-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M3-1 (ICR+) - M3-2 (ICR-)	Always	1 M Ω or higher

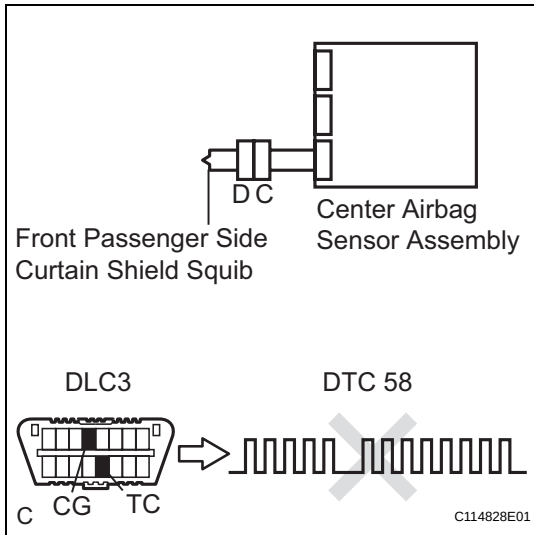
NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY

RS



- Connect the connectors to the curtain shield airbag assembly RH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1835, B1836, B1837, B1838, or 58 is not output.

HINT:

Codes other than DTC B1835, B1836, B1837, B1838, and 58 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

DTC	B1850/62	Short in Rear Driver Side - Side Squib Circuit
DTC	B1851/62	Open in Rear Driver Side - Side Squib Circuit
DTC	B1852/62	Short to GND in Rear Driver Side - Side Squib Circuit
DTC	B1853/62	Short to B+ in Rear Driver Side - Side Squib Circuit

RS**DESCRIPTION**

The rear driver side - side squib circuit consists of the center airbag sensor assembly and the rear seat side airbag assembly LH.

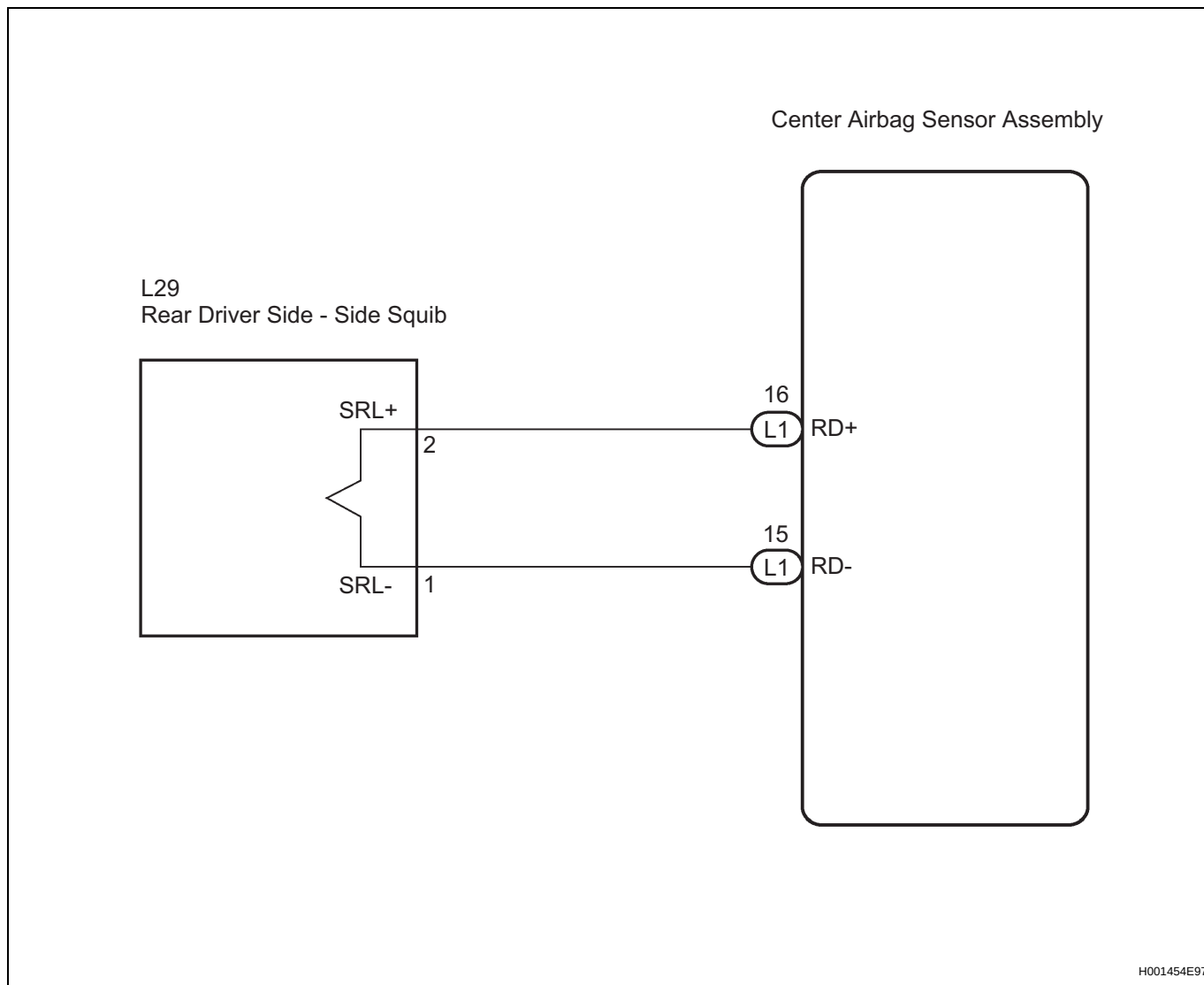
This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the rear driver side - side squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1850/62	- The center airbag sensor assembly receives a line short circuit signal 5 times in the rear driver side - side squib circuit during primary check. - Rear driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat side airbag assembly LH (Rear driver side - side squib) - Center airbag sensor assembly
B1851/62	- The center airbag sensor assembly receives an open circuit signal in the rear driver side - side squib circuit for 2 seconds. - Rear driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat side airbag assembly LH (Rear driver side - side squib) - Center airbag sensor assembly
B1852/62	- The center airbag sensor assembly receives a short circuit to ground signal in the rear driver side - side squib circuit for 0.5 seconds. - Rear driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat side airbag assembly LH (Rear driver side - side squib) - Center airbag sensor assembly
B1853/62	- The center airbag sensor assembly receives a short circuit to B+ signal in the rear driver side - side squib circuit for 0.5 seconds. - Rear driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat side airbag assembly LH (Rear driver side - side squib) - Center airbag sensor assembly

WIRING DIAGRAM

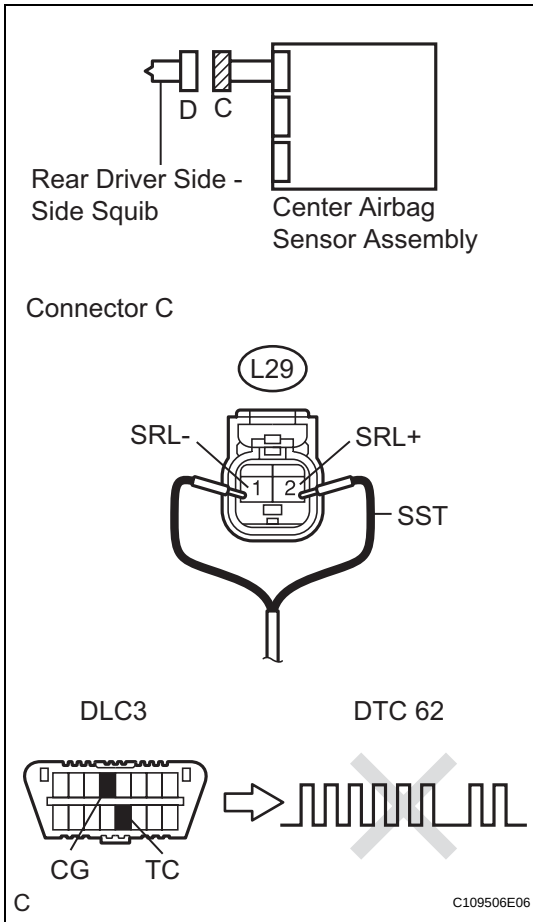
RS



INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1**CHECK REAR SEAT SIDE AIRBAG ASSEMBLY LH (REAR DRIVER SIDE - SIDE SQUIB)**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the rear seat side airbag assembly LH.
- (d) Connect the black wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect a tester to the rear seat side airbag assembly RH (rear driver side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

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- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1850, B1851, B1852, B1853, or 62 is not output.

HINT:

Codes other than DTC B1850, B1851, B1852, B1853, and 62 may be output at this time, but they are not related to this check.

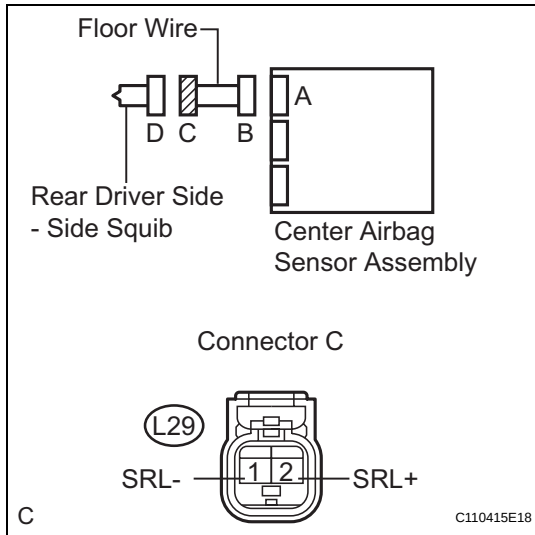
OK

REPLACE REAR SEAT SIDE AIRBAG ASSEMBLY LH (See page SE-113)

NG**RS**

2

CHECK FLOOR WIRE (REAR DRIVER SIDE - SIDE SQUIB CIRCUIT)



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Disconnect the connectors from the center airbag sensor assembly.
- (e) Check the short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
L29-2 (SRL+) - Body ground	Engine switch on (IG)	Below 1 V
L29-1 (SRL-) - Body ground	Engine switch on (IG)	Below 1 V

- (f) Check the open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L29-2 (SRL+) - L29-1 (SRL-)	Always	Below 1 Ω

- (g) Check the short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L29-2 (SRL+) - Body ground	Always	1 M Ω or higher
L29-1 (SRL-) - Body ground	Always	1 M Ω or higher

- (h) Check the short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page [RS-37](#)).
 - (2) Measure the resistance according to the value(s) in the table below.

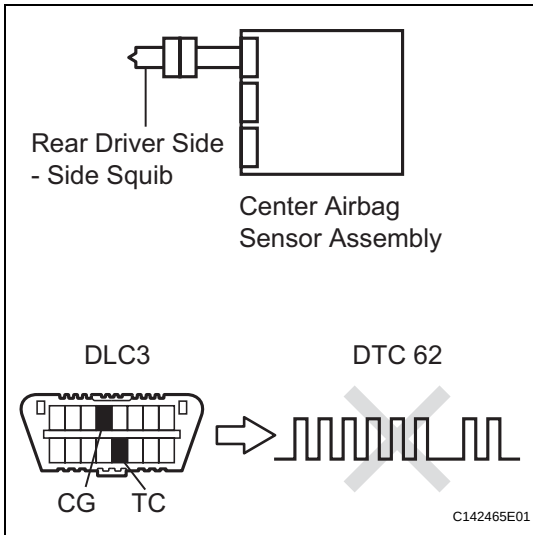
Standard resistance

Tester Connection	Condition	Specified Condition
L29-2 (SRL+) - L29-1 (SRL-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- (a) Connect the connectors to the rear seat side airbag 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 engine switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page [RS-49](#)).
- (e) Turn the engine switch off.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (See page [RS-49](#)).

OK:

DTC B1850, B1851, B1852, B1853, or 62 is not output.

HINT:

Codes other than DTC B1850, B1851, B1852, B1853, and 62 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

RS

DTC	B1855/63	Short in Rear Passenger Side - Side Squib Circuit
DTC	B1856/63	Open in Rear Passenger Side - Side Squib Circuit
DTC	B1857/63	Short to GND in Rear Passenger Side - Side Squib Circuit
DTC	B1858/63	Short to B+ in Rear Passenger Side - Side Squib Circuit

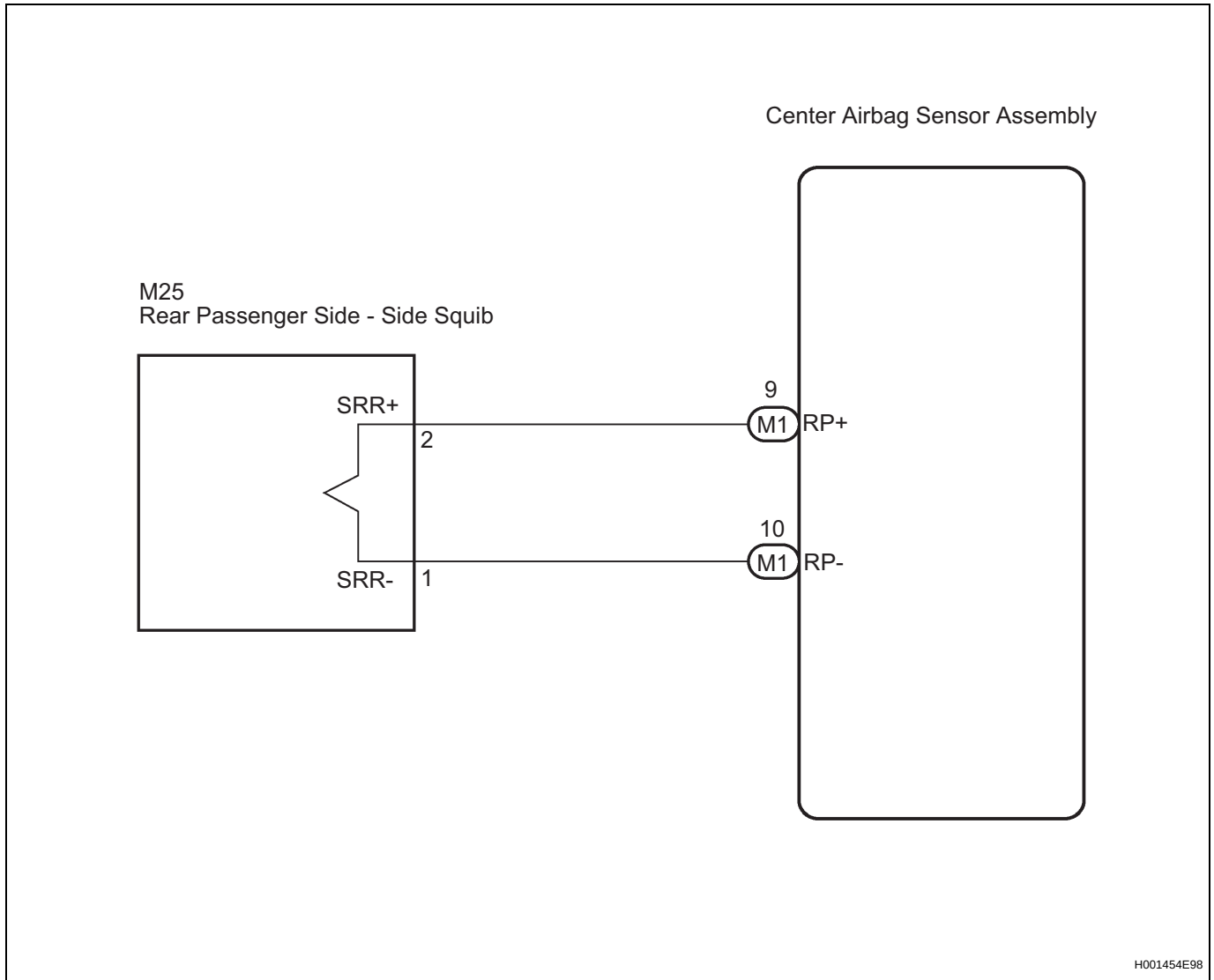
DESCRIPTION

The rear passenger side - side squib circuit consists of the center airbag sensor assembly and the rear seat side airbag assembly RH.

The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the rear passenger side - side squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1855/63	- The center airbag sensor assembly receives a line short circuit signal 5 times in the rear passenger side - side squib circuit during primary check. - Rear passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat side airbag assembly RH (Rear passenger side - side squib) - Center airbag sensor assembly
B1856/63	- The center airbag sensor assembly receives an open circuit signal in the rear passenger side - side squib circuit for 2 seconds. - Rear passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat side airbag assembly RH (Rear passenger side - side squib) - Center airbag sensor assembly
B1857/63	- The center airbag sensor assembly receives a short circuit to ground signal in the rear passenger side - side squib circuit for 0.5 seconds. - Rear passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat side airbag assembly RH (Rear passenger side - side squib) - Center airbag sensor assembly
B1858/63	- The center airbag sensor assembly receives a short circuit to B+ signal in the rear passenger side - side squib circuit for 0.5 seconds. - Rear passenger side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat side airbag assembly RH (Rear passenger side - side squib) - Center airbag sensor assembly

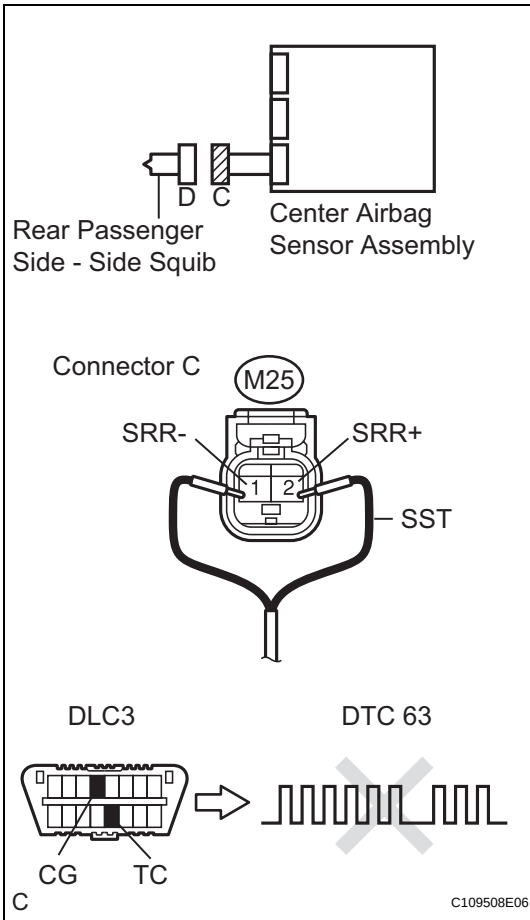
WIRING DIAGRAM**RS****INSPECTION PROCEDURE****HINT:**

- Change the intelligent tester to the "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting the "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on various types of roads (See page [RS-52](#)).

1

CHECK REAR SEAT SIDE AIRBAG ASSEMBLY RH (REAR PASSENGER SIDE - SIDE SQUIB)

RS



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the rear seat side airbag RH.
- (d) Connect the black wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect a tester to the rear seat side airbag RH (rear passenger side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

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- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page [RS-49](#)).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page [RS-49](#)).

OK:

DTC B1855, B1856, B1857, B1858, or 63 is not output.

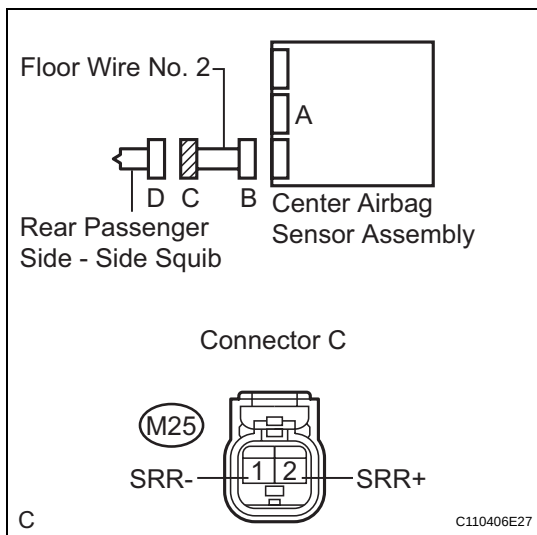
HINT:

Codes other than DTC B1855, B1856, B1857, B1858, and 63 may be output at this time, but they are not related to this check.

OK

REPLACE REAR SEAT SIDE AIRBAG ASSEMBLY RH (See page [SE-113](#))

NG

2**CHECK FLOOR WIRE NO. 2 (REAR PASSENGER SIDE - SIDE SQUIB CIRCUIT)**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST (resistance 2.1 Ω) from the floor wire No. 2.
- (d) Disconnect the connectors from the center airbag sensor assembly.
- (e) Check the short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
M25-2 (SRR+) - Body ground	Engine switch on (IG)	Below 1 V
M25-1 (SRR-) - Body ground	Engine switch on (IG)	Below 1 V

- (f) Check the open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M25-2 (SRR+) - M25-1 (SRR-)	Always	Below 1 Ω

- (g) Check the short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M25-2 (SRR+) - Body ground	Always	1 M Ω or higher
M25-1 (SRR-) - Body ground	Always	1 M Ω or higher

- (h) Check the short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page [RS-37](#)).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M25-2 (SRR+) - M25-1 (SRR-)	Always	1 M Ω or higher

NG

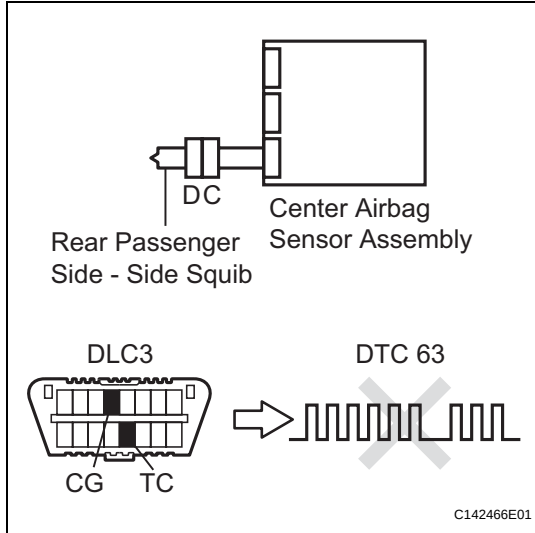
REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

RS

3

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the connectors to the rear seat side airbag assembly RH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1855, B1856, B1857, B1858, or 63 is not output.

HINT:

Codes other than DTC B1855, B1856, B1857, B1858, and 63 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

DTC	B1860/64	Short in Driver Side Knee Airbag Squib Circuit
DTC	B1861/64	Open in Driver Side Knee Airbag Squib Circuit
DTC	B1862/64	Short to GND in Driver Side Knee Airbag Squib Circuit
DTC	B1863/64	Short to B+ in Driver Side Knee Airbag Squib Circuit

RS**DESCRIPTION**

The driver side knee airbag squib circuit consists of the center airbag sensor assembly and the driver side knee airbag assembly.

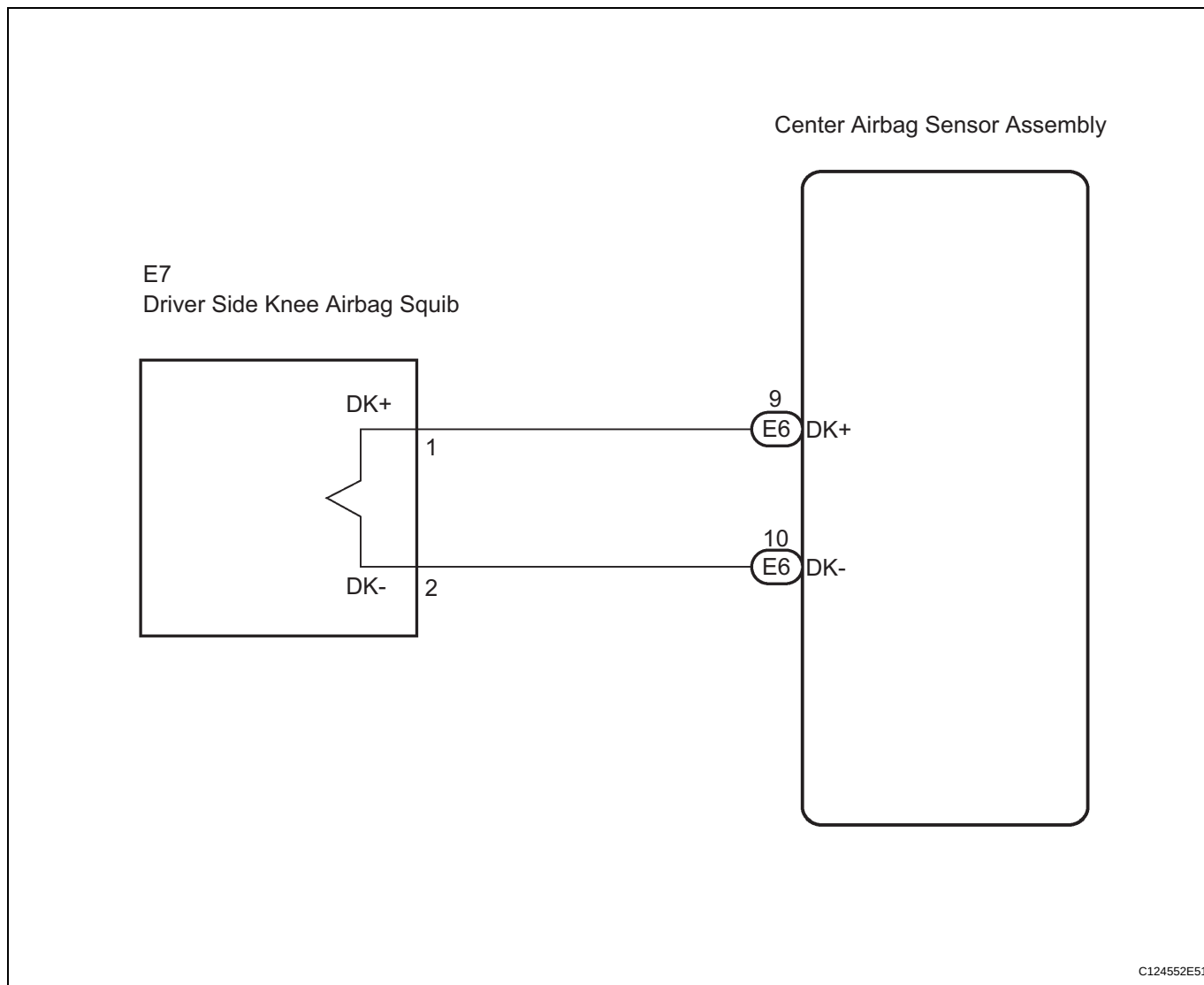
This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the driver side knee airbag squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1860/64	- The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side knee airbag squib circuit during primary check. - Driver side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Driver side knee airbag assembly (Driver side knee airbag squib) - Center airbag sensor assembly
B1861/64	- The center airbag sensor assembly receives an open circuit signal in the driver side knee airbag squib circuit for 2 seconds. - Driver side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Driver side knee airbag assembly (Driver side knee airbag squib) - Center airbag sensor assembly
B1862/64	- The airbag sensor assembly center receives a short circuit to ground signal in the knee airbag (D side) squib circuit for 0.5 seconds. - Driver side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Driver side knee airbag assembly (Driver side knee airbag squib) - Center airbag sensor assembly
B1863/64	- The airbag sensor assembly center receives a short circuit to B+ signal in the knee airbag (D side) squib circuit for 0.5 seconds. - Driver side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Driver side knee airbag assembly (Driver side knee airbag squib) - Center airbag sensor assembly

WIRING DIAGRAM

RS



INSPECTION PROCEDURE

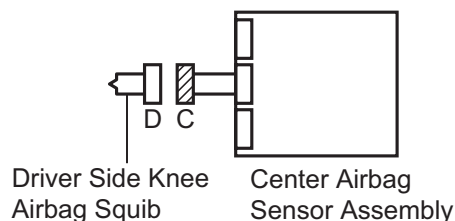
HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

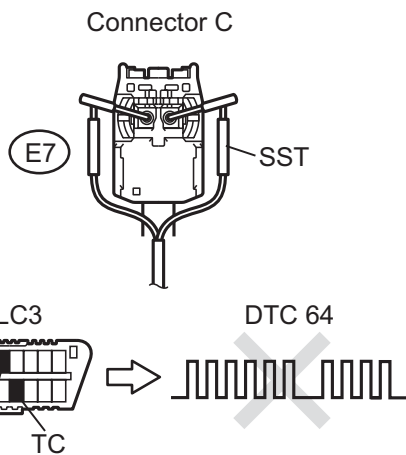
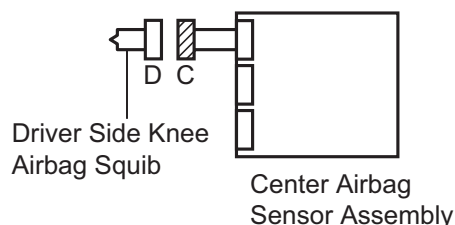
1

CHECK DRIVER SIDE KNEE AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)

with Rear Side Airbag:



without Rear Side Airbag:



C142495E01

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connector from the driver side knee airbag assembly.
- Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the driver side knee airbag assembly (driver side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1860, B1861, B1862, B1863, or 64 is not output.

HINT:

Codes other than DTC B1860, B1861, B1862, B1863, and 64 may be output at this time, but they are not related to this check.

OK

REPLACE DRIVER SIDE KNEE AIRBAG ASSEMBLY (See page RS-385)

NG

2

CHECK CONNECTOR

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector C.
- Check that the instrument panel wire connector (on the driver side knee airbag assembly side) is not damaged.

RS

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

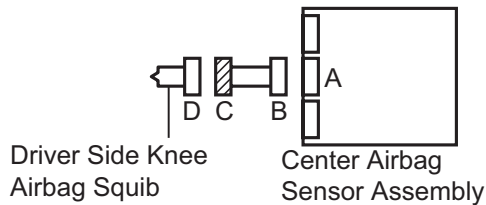
RS

OK

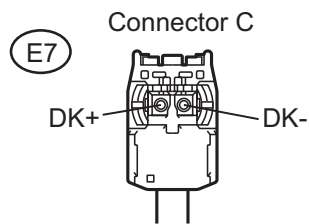
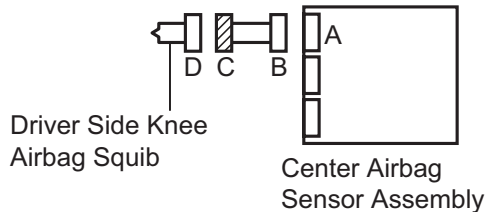
3

CHECK INSTRUMENT PANEL WIRE (DRIVER SIDE KNEE AIRBAG SQUIB CIRCUIT)

with Rear Side Airbag:



without Rear Side Airbag:



C142496E01

- Disconnect the connectors from the center airbag sensor assembly.
- Check for a short to B+ in the circuit.
 - Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the engine switch on (IG).
 - Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
E7-1 (DK+) - Body ground	Engine switch on (IG)	Below 1 V
E7-2 (DK-) - Body ground	Engine switch on (IG)	Below 1 V

- Check for an open in the circuit.
 - Turn the engine switch off.
 - Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E7-1 (DK+) - E7-2 (DK-)	Always	Below 1 Ω

- Check for a short to ground in the circuit.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E7-1 (DK+) - Body ground	Always	1 M Ω or higher
E7-2 (DK-) - Body ground	Always	1 M Ω or higher

- Check for a short in the circuit.
 - Release the activation prevention mechanism built into connector B (See page RS-37).
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E7-1 (DK+) - E7-2 (DK-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

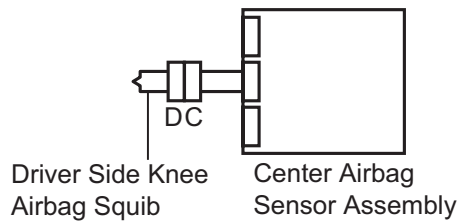
OK

4

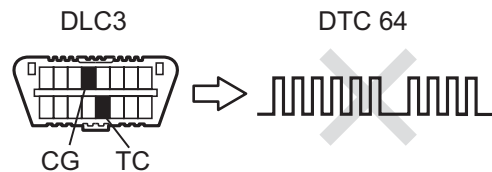
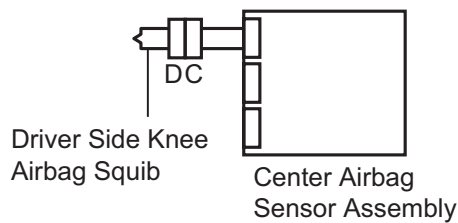
CHECK CENTER AIRBAG SENSOR ASSEMBLY

RS

with Rear Side Airbag:



without Rear Side Airbag:



C142497E01

- Connect the connectors to the driver side knee airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the stored DTCs in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1860, B1861, B1862, B1863, or 64 is not output.

HINT:

Codes other than DTC B1860, B1861, B1862, B1863, and 64 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

DTC	B1865/65	Short in Front Passenger Side Knee Airbag Squib Circuit
DTC	B1866/65	Open in Front Passenger Side Knee Airbag Squib Circuit
DTC	B1867/65	Short to GND in Front Passenger Side Knee Airbag Squib Circuit
DTC	B1868/65	Short to B+ in Front Passenger Side Knee Airbag Squib Circuit

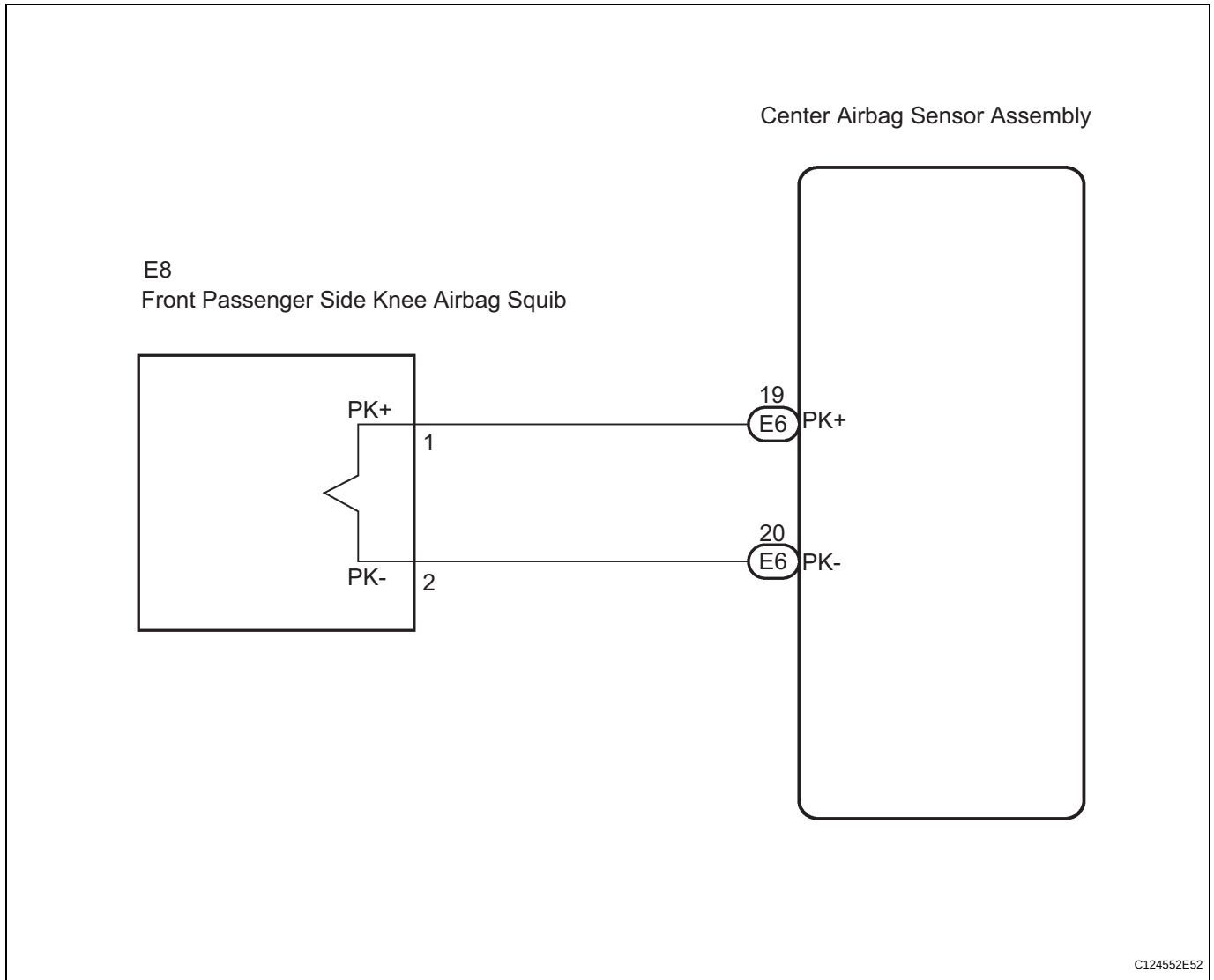
DESCRIPTION

The front passenger side knee airbag squib circuit consists of the center airbag sensor assembly and the front passenger side knee airbag assembly.

The circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side knee airbag squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1865/65	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side knee airbag squib circuit during primary check. - Front passenger side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Front passenger side knee airbag assembly (Front passenger side knee airbag squib) - Center airbag sensor assembly
B1866/65	- The center airbag sensor assembly receives an open circuit signal in the front passenger side knee airbag squib circuit for 2 seconds. - Front passenger side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Front passenger side knee airbag assembly (Front passenger side knee airbag squib) - Center airbag sensor assembly
B1867/65	- The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side knee airbag squib circuit for 0.5 seconds. - Front passenger side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Front passenger side knee airbag assembly (Front passenger side knee airbag squib) - Center airbag sensor assembly
B1868/65	- The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side knee airbag squib circuit for 0.5 seconds. - Front passenger side knee airbag squib malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Front passenger side knee airbag assembly (Front passenger side knee airbag squib) - Center airbag sensor assembly

WIRING DIAGRAM**RS****INSPECTION PROCEDURE****HINT:**

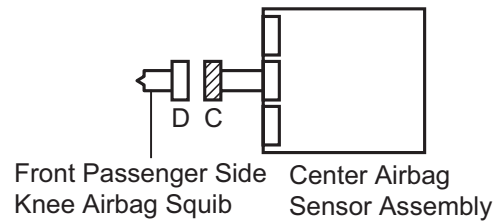
- Perform the simulation method by selecting the "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting the "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1

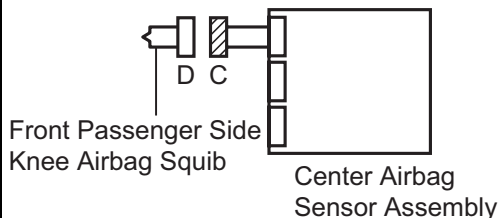
CHECK FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY (FRONT PASSENGER SIDE KNEE AIRBAG SQUIB)

RS

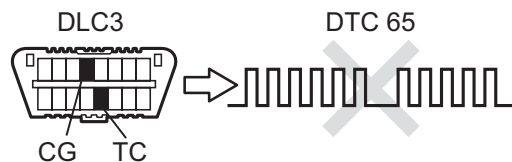
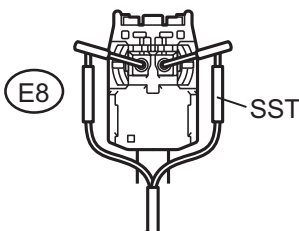
with Rear Side Airbag:



without Rear Side Airbag:



Connector C



C142498E01

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connector from the front passenger side knee airbag assembly.
- Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect a tester to the front passenger side knee airbag assembly (front passenger side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1865, B1866, B1867, B1868, or 65 is not output.

HINT:

Codes other than DTC B1865, B1866, B1867, B1868, and 65 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY (See page RS-412)

NG

2

CHECK CONNECTOR

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector C.
- Check that the instrument panel wire connector (on the front passenger side knee airbag assembly side) is not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

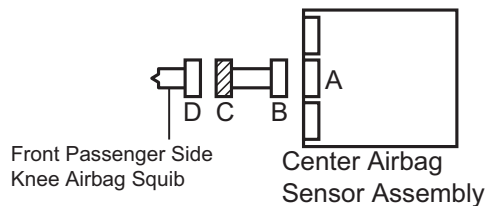
OK

RS

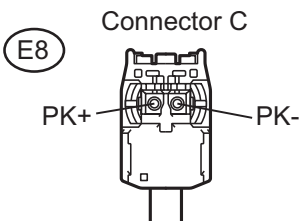
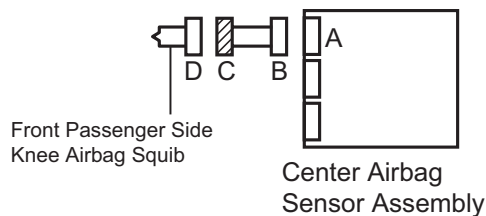
3

CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER KNEE AIRBAG SQUIB CIRCUIT)

with Rear Side Airbag:



without Rear Side Airbag:



C142496E02

- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
E8-1 (PK+) - Body ground	Engine switch on (IG)	Below 1 V
E8-2 (PK-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E8-1 (PK+) - E8-2 (PK-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E8-1 (PK+) - Body ground	Always	1 M Ω or higher
E8-2 (PK-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E8-1 (PK+) - E8-2 (PK-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

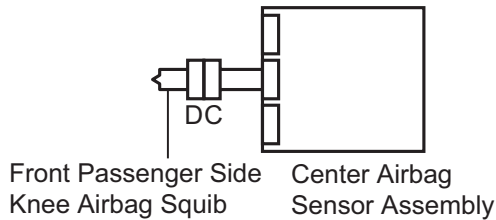
OK

RS

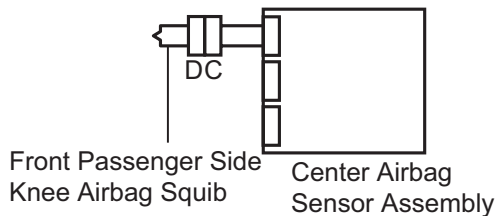
4

CHECK CENTER AIRBAG SENSOR ASSEMBLY

with Rear Side Airbag:

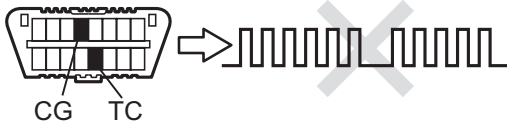


without Rear Side Airbag:



DLC3

DTC 65



C142499E01

- Connect the connectors to the front passenger side knee airbag assembly and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1865, B1866, B1867, B1868 or 65 is not output.

HINT:

Codes other than DTC B1865, B1866, B1867, B1868 and 65 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

DTC	B1900/73	Short in Front Driver Side Pretensioner Squib Circuit
DTC	B1901/73	Open in Front Driver Side Pretensioner Squib Circuit
DTC	B1902/73	Short to GND in Front Driver Side Pretensioner Squib Circuit
DTC	B1903/73	Short to B+ in Front Driver Side Pretensioner Squib Circuit

RS

DESCRIPTION

The front driver side pretensioner squib circuit consists of the center airbag sensor assembly and the front seat outer belt assembly LH.

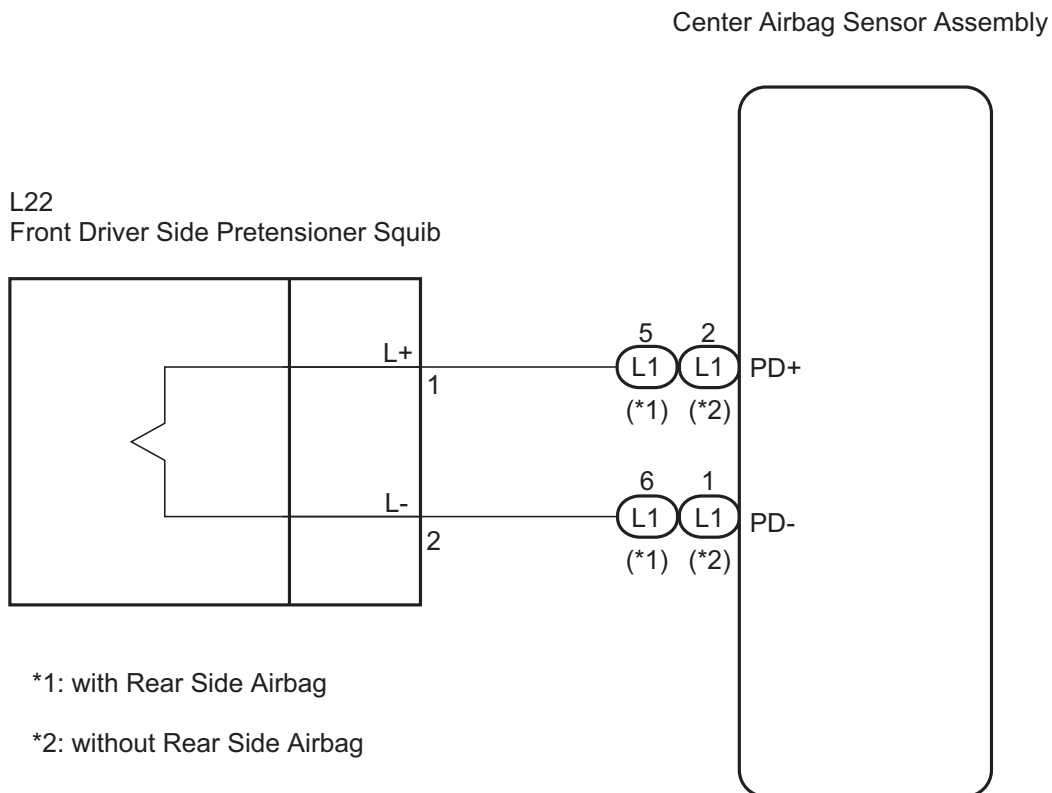
This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front driver side pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1900/73	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front driver side pretensioner squib circuit during primary check. - Front driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat outer belt assembly LH (Front driver side pretensioner squib) - Center airbag sensor assembly
B1901/73	- The center airbag sensor assembly receives an open circuit signal in the front driver side pretensioner squib circuit for 2 seconds. - Front driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat outer belt assembly LH (Front driver side pretensioner squib) - Center airbag sensor assembly
B1902/73	- The center airbag sensor assembly receives a short circuit to ground signal in the front driver side pretensioner squib circuit for 0.5 seconds. - Front driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat outer belt assembly LH (Front driver side pretensioner squib) - Center airbag sensor assembly
B1903/73	- The center airbag sensor assembly receives a short circuit to B+ signal in the front driver side pretensioner squib circuit for 0.5 seconds. - Front driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat outer belt assembly LH (Front driver side pretensioner squib) - Center airbag sensor assembly

WIRING DIAGRAM

RS

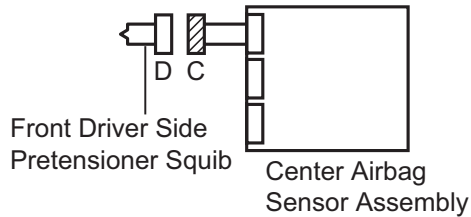
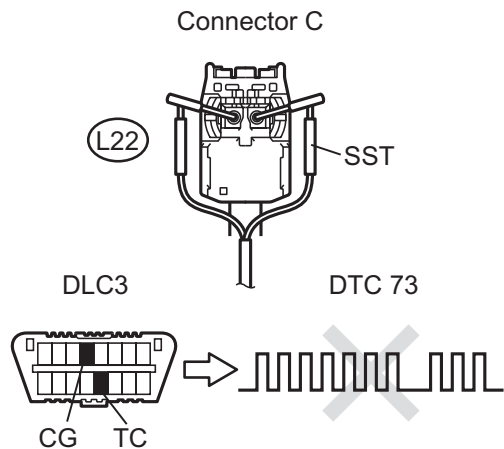
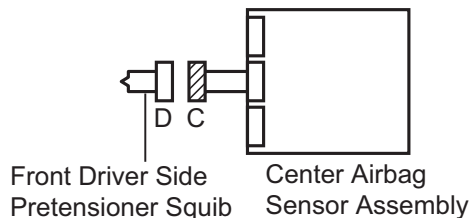


C123777E07

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1**CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (FRONT DRIVER SIDE PRETENSIONER SQUIB)****with Rear Side Airbag:****without Rear Side Airbag:**

C142500E01

NG

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the front seat outer belt assembly LH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the front seat outer belt assembly LH (front driver side pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1900, B1901, B1902, B1903, or 73 is not output.

HINT:

Codes other than DTC B1900, B1901, B1902, B1903, and 73 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH (See page SB-27)

2**CHECK CONNECTOR**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Check that the floor wire connector (on the front seat outer belt assembly LH side) is not damaged.

RS

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

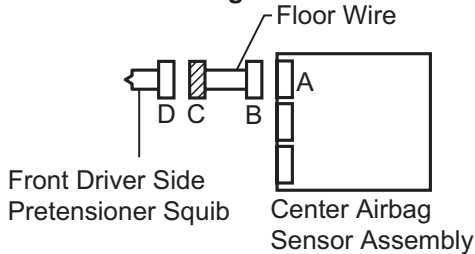
RS

OK

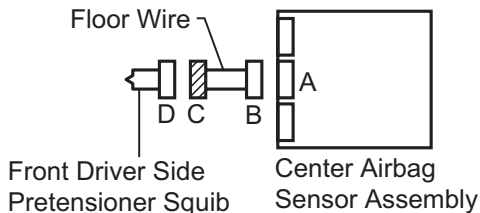
3

CHECK FLOOR WIRE (FRONT DRIVER SIDE PRETENSIONER SQUIB CIRCUIT)

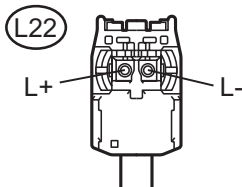
with Rear Side Airbag:



without Rear Side Airbag:



Connector C



C142457E01

- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
L22-1 (L+) - Body ground	Engine switch on (IG)	Below 1 V
L22-2 (L-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L22-1 (L+) - L22-2 (L-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
L22-1 (L+) - Body ground	Always	1 M Ω or higher
L22-2 (L-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-37).
 - (2) Measure the resistance according to the value(s) in the table below.

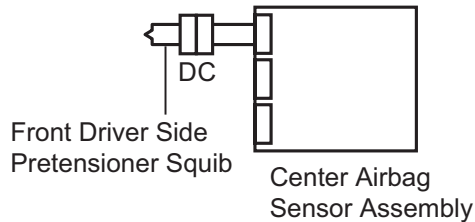
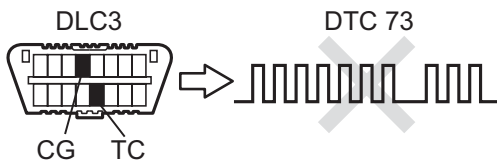
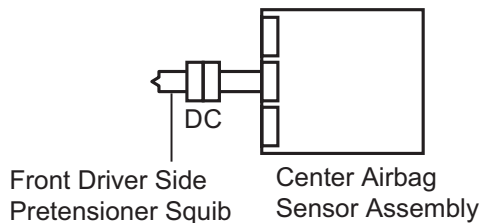
Standard resistance

Tester Connection	Condition	Specified Condition
L22-1 (L+) - L22-2 (L-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY**with Rear Side Airbag:****without Rear Side Airbag:**

C142501E01

- Connect the connectors to the front seat outer belt assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:**DTC B1900, B1901, B1902, B1903, or 73 is not output.****HINT:**

Codes other than DTC B1900, B1901, B1902, B1903, or 73 may be output at this time, but they are not related to this check.

NG**REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))**

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))**RS**

RS

DTC	B1905/74	Short in Front Passenger Side Pretensioner Squib Circuit
DTC	B1906/74	Open in Front Passenger Side Pretensioner Squib Circuit
DTC	B1907/74	Short to GND in Front Passenger Side Pretensioner Squib Circuit
DTC	B1908/74	Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit

DESCRIPTION

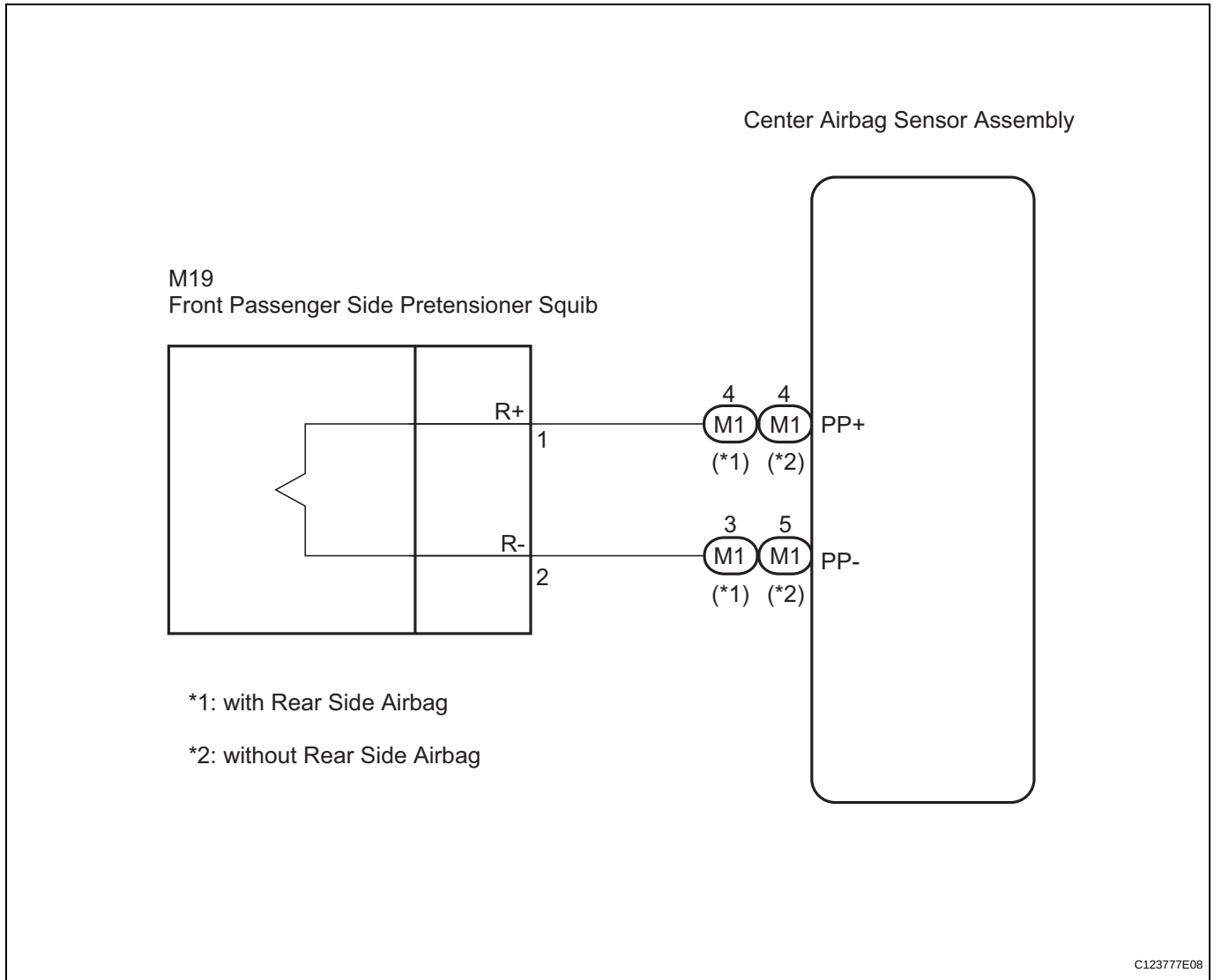
The front passenger side pretensioner squib circuit consists of the center airbag sensor assembly and the front seat outer belt assembly RH.

This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1905/74	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side pretensioner squib circuit during primary check. - Front passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat outer belt assembly RH (Front passenger side pretensioner squib) - Center airbag sensor assembly
B1906/74	- The center airbag sensor assembly receives an open circuit signal in the front passenger side pretensioner squib circuit for 2 seconds. - Front passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat outer belt assembly RH (Front passenger side pretensioner squib) - Center airbag sensor assembly
B1907/74	- The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side pretensioner squib circuit for 0.5 seconds. - Front passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat outer belt assembly RH (Front passenger side pretensioner squib) - Center airbag sensor assembly
B1908/74	- The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side pretensioner squib circuit for 0.5 seconds. - Front passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Front seat outer belt assembly RH (Front passenger side pretensioner squib) - Center airbag sensor assembly

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

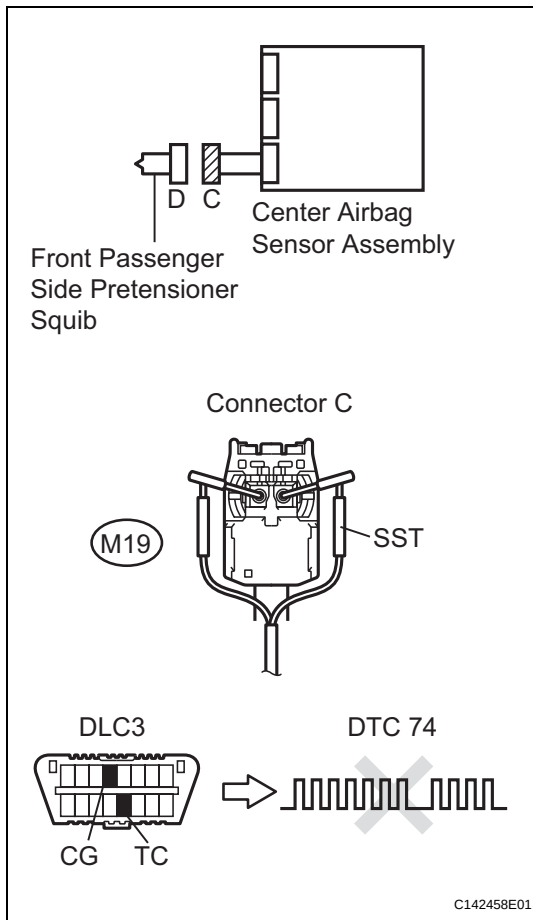
HINT:

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1

CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PASSENGER SIDE PRETENSIONER SQUIB)

RS



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the front seat outer belt assembly RH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the front seat outer belt assembly RH (front passenger side pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1905, B1906, B1907, B1908, or 74 is not output.

HINT:

Codes other than DTC B1905, B1906, B1907, B1908, and 74 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH (See page SB-27)

NG

2

CHECK CONNECTOR

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Check that the floor wire No. 2 connector (on the front seat outer belt assembly RH side) is not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

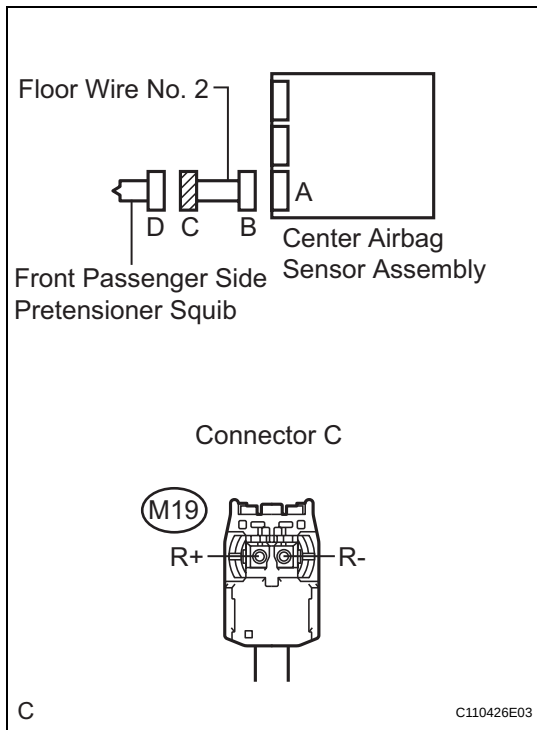
REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

RS

3

CHECK FLOOR WIRE NO. 2 (FRONT PASSENGER SIDE PRETENSIONER SQUIB CIRCUIT)



- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
M19-1 (R+) - Body ground	Engine switch on (IG)	Below 1 V
M19-2 (R-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
 - (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M19-1 (R+) - M19-2 (R-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M19-1 (R+) - Body ground	Always	1 M Ω or higher
M19-2 (R-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page [RS-37](#)).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M19-1 (R+) - M19-2 (R-)	Always	1 M Ω or higher

NG

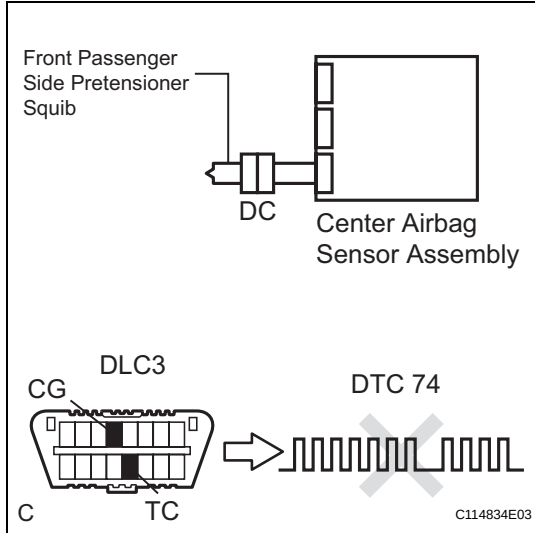
REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

RS

4

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the connectors to the front seat outer belt assembly RH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1905, B1906, B1907, B1908, or 74 is not output.

HINT:

Codes other than DTC B1905, B1906, B1907, B1908, and 74 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

DTC	B1920/77	Short in Rear Driver Side Pretensioner Squib Circuit
DTC	B1921/77	Open in Rear Pretensioner Squib RH Circuit
DTC	B1922/77	Short to GND in Rear Pretensioner Squib RH Circuit
DTC	B1923/77	Short to B+ in Rear Pretensioner Squib RH Circuit

RS

DESCRIPTION

The rear driver side pretensioner squib circuit consists of the center airbag sensor assembly and the rear seat outer belt assembly LH.

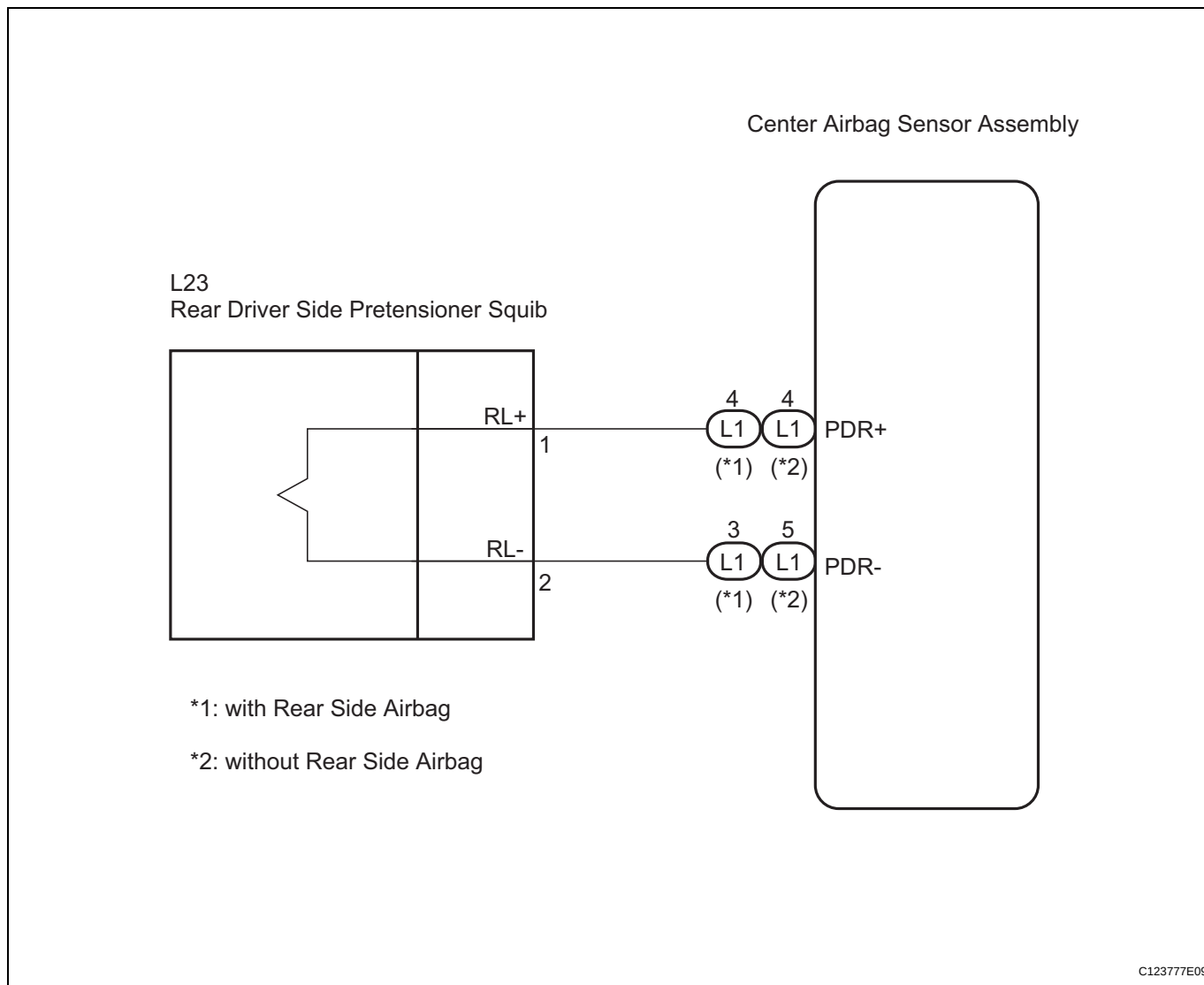
This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the rear driver side pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1920/77	- The center airbag sensor assembly receives a line short circuit signal 5 times in the rear driver side pretensioner squib circuit during primary check. - Rear driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat outer belt assembly LH (Rear driver side pretensioner squib) - Center airbag sensor assembly
B1921/77	- The center airbag sensor assembly receives an open circuit signal in the rear driver side pretensioner squib circuit for 2 seconds. - Rear driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat outer belt assembly LH (Rear driver side pretensioner squib) - Center airbag sensor assembly
B1922/77	- The center airbag sensor assembly receives a short circuit to ground signal in the rear driver side pretensioner squib circuit for 0.5 seconds. - Rear driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat outer belt assembly LH (Rear driver side pretensioner squib) - Center airbag sensor assembly
B1923/77	- The center airbag sensor assembly receives a short circuit to B+ signal in the rear driver side pretensioner squib circuit for 0.5 seconds. - Rear driver side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Rear seat outer belt assembly LH (Rear driver side pretensioner squib) - Center airbag sensor assembly

WIRING DIAGRAM

RS



INSPECTION PROCEDURE

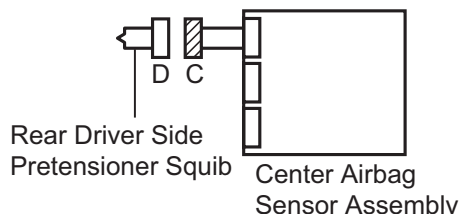
HINT:

- Perform the simulation method by selecting the "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting the "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

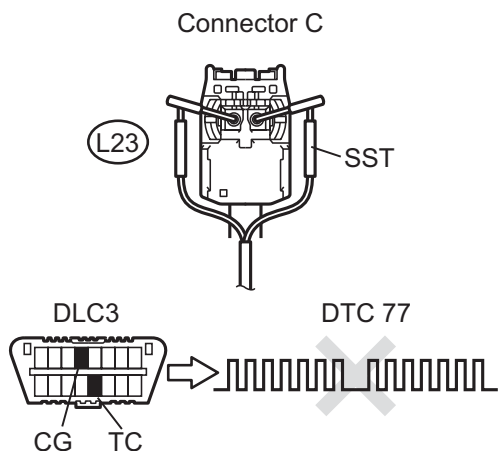
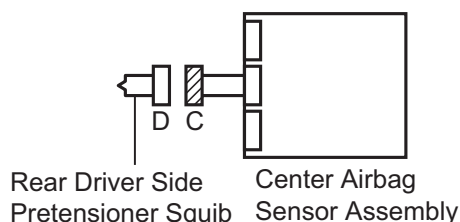
1 CHECK REAR SEAT OUTER BELT ASSEMBLY LH (REAR DRIVER SIDE PRETENSIONER SQUIB)

RS

with Rear Side Airbag:



without Rear Side Airbag:



C142502E01

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the rear seat outer belt assembly LH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect a tester to the rear seat outer belt assembly LH (rear driver side pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-49).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-49).

OK:

DTC B1920, B1921, B1922, B1923, or 77 is not output.

HINT:

Codes other than DTC B1920, B1921, B1922, B1923, and 77 may be output at this time, but they are not related to this check.

NG

REPLACE REAR SEAT OUTER BELT ASSEMBLY LH (See page SB-47)

OK

2 CHECK CONNECTOR

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Check that the floor wire connector (on the rear seat outer belt assembly LH side) is not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

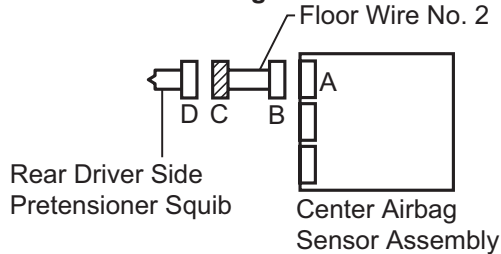
OK

RS

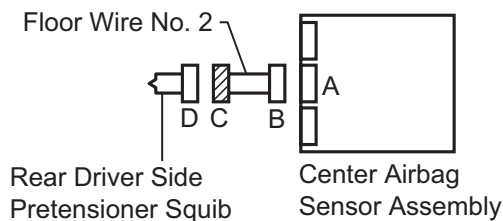
3

CHECK FLOOR WIRE (REAR DRIVER SIDE PRETENSIONER SQUIB CIRCUIT)

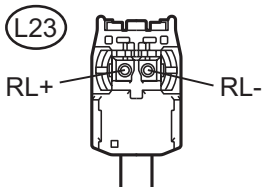
with Rear Side Airbag:



without Rear Side Airbag:



Connector C



C142457E02

(a) Disconnect the connectors from the center airbag sensor assembly.

(b) Check for a short to B+ in the circuit.

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

(2) Turn the engine switch on (IG).

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

Standard voltage

Tester Connection	Condition	Specified Condition
L23-1 (RL+) - Body ground	Engine switch on (IG)	Below 1 V
L23-2 (RL-) - Body ground	Engine switch on (IG)	Below 1 V

(c) Check for an open in the circuit.

(1) Turn the engine switch off.

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

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

Standard resistance

Tester Connection	Condition	Specified Condition
L23-1 (RL+) - L23-2 (RL-)	Always	Below 1 Ω

(d) Check for a short to ground in the circuit.

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

Standard resistance

Tester Connection	Condition	Specified Condition
L23-1 (RL+) - Body ground	Always	1 M Ω or higher
L23-2 (RL-) - Body ground	Always	1 M Ω or higher

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B (See page [RS-37](#)).

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

Standard resistance

Tester Connection	Condition	Specified Condition
L23-1 (RL+) - L23-2 (RL-)	Always	1 M Ω or higher

NG

REPAIR OR REPLACE FLOOR WIRE

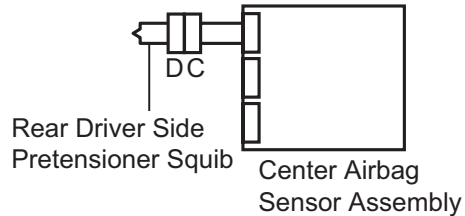
OK

4

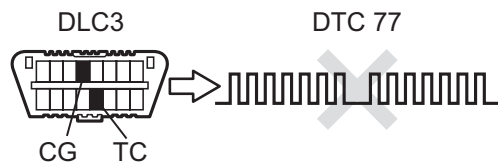
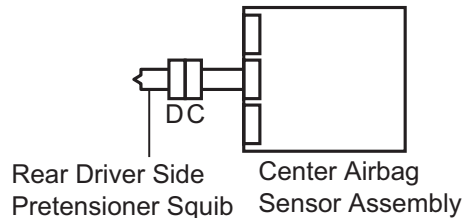
CHECK CENTER AIRBAG SENSOR ASSEMBLY

RS

with Rear Side Airbag:



without Rear Side Airbag:



C142503E01

- Connect the connectors to the rear seat outer belt assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1920, B1921, B1922, B1923, or 77 is not output.

HINT:

Codes other than B1920, B1921, B1922, B1923, and 77 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-468)

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

DTC	B1925/78	Short in Rear Passenger Side Pretensioner Squib Circuit
DTC	B1926/78	Open in Rear Passenger Side Pretensioner Squib Circuit
DTC	B1927/78	Short to GND in Rear Passenger Side Pretensioner Squib Circuit
DTC	B1928/78	Short to B+ in Rear Passenger Side Pretensioner Squib Circuit

DESCRIPTION

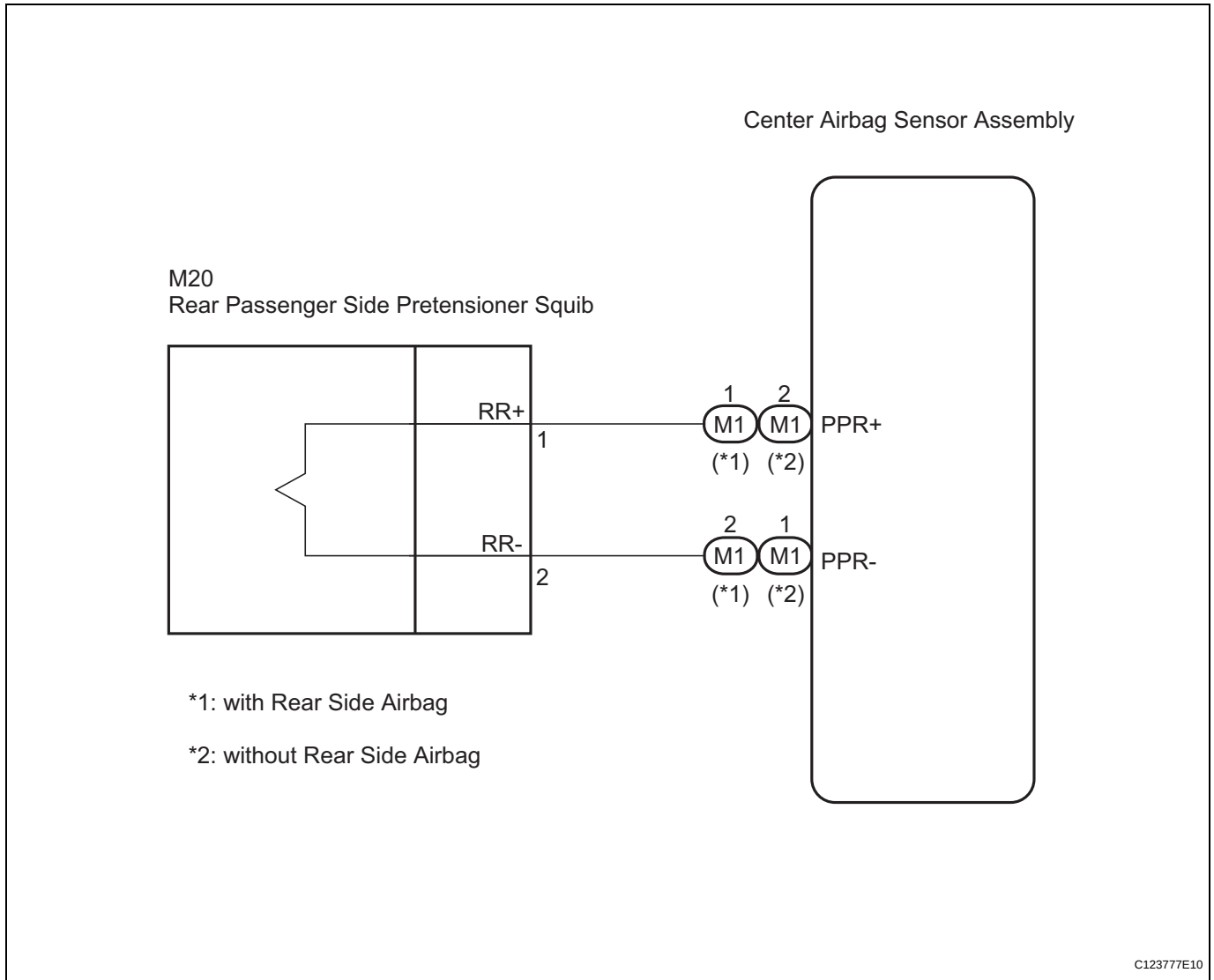
The rear passenger side pretensioner squib circuit consists of the center airbag sensor assembly and the rear seat outer belt assembly RH.

This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the rear passenger side pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1925/78	- The center airbag sensor assembly receives a line short circuit signal 5 times in the rear passenger side pretensioner squib circuit during primary check. - Rear passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat outer belt assembly RH (Rear passenger side pretensioner squib) - Center airbag sensor assembly
B1926/78	- The center airbag sensor assembly receives an open circuit signal in the rear passenger side pretensioner squib circuit for 2 seconds. - Rear passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat outer belt assembly RH (Rear passenger side pretensioner squib) - Center airbag sensor assembly
B1927/78	- The center airbag sensor assembly receives a short circuit to ground signal in the rear passenger side pretensioner squib circuit for 0.5 seconds. - Rear passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat outer belt assembly RH (Rear passenger side pretensioner squib) - Center airbag sensor assembly
B1928/78	- The center airbag sensor assembly receives a short circuit to B+ signal in the rear passenger side pretensioner squib circuit for 0.5 seconds. - Rear passenger side pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire No. 2 - Rear seat outer belt assembly RH (rear passenger side pretensioner squib) - Center airbag sensor assembly

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

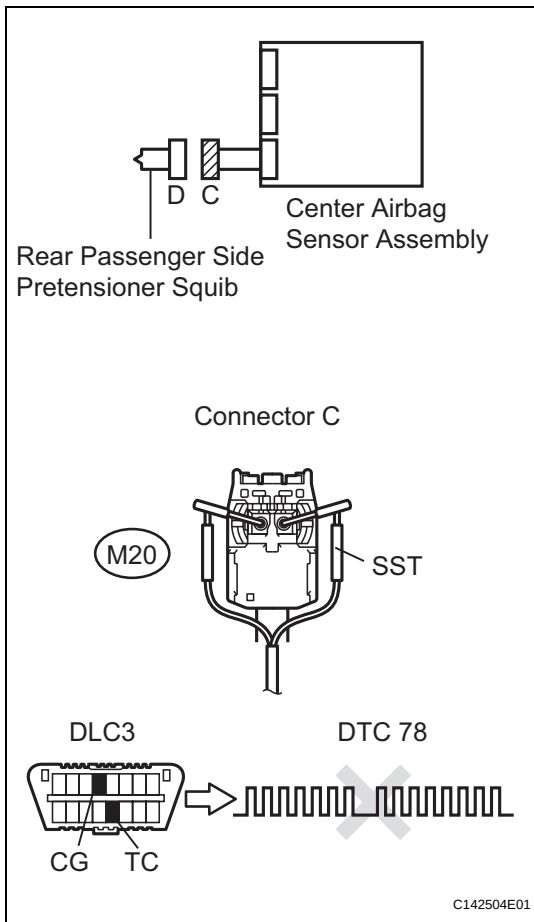
HINT:

- Perform the simulation method by selecting the "check mode" (signal check) with the intelligent tester (See page [RS-52](#)).
- After selecting the "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-52](#)).

1

CHECK REAR SEAT OUTER BELT ASSEMBLY RH (REAR PASSENGER SIDE PRETENSIONER SQUIB)

RS



- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the rear seat outer belt assembly RH.
- Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect a tester to the rear seat outer belt assembly RH (rear passenger side pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting the SST.
- Insert straight the SST into the terminals of the connector.

SST 09843-18060

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-49).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page RS-49).

OK:

DTC B1925, B1926, B1927, B1928 or 78 is not output.

HINT:

Codes other than DTC B1925, B1926, B1927, B1928 and 78 may be output at this time, but they are not related to this check.

NG

REPLACE REAR SEAT OUTER BELT ASSEMBLY RH (See page SB-47)

OK

2

CHECK CONNECTOR

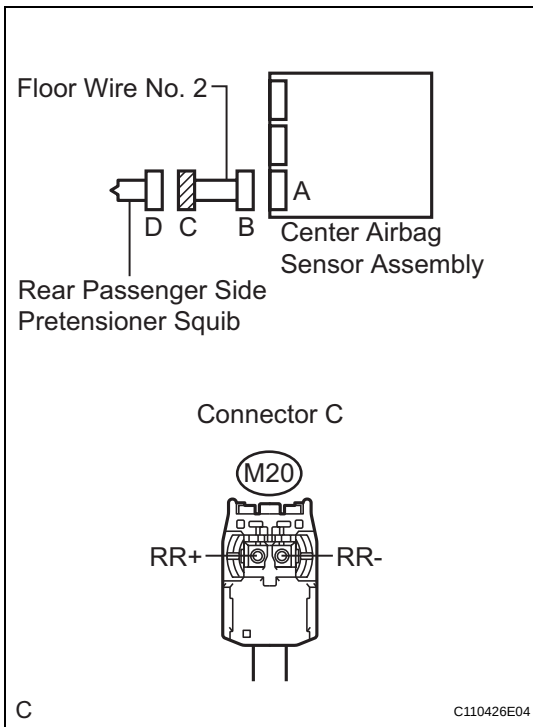
- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector C.
- Check that the floor wire No. 2 connector (on the rear seat outer belt assembly RH side) is not damaged.

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

3

CHECK FLOOR WIRE NO. 2 (REAR PASSENGER SIDE PRETENSIONER SQUIB CIRCUIT)

- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for a short to B+ in the circuit.
- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the engine switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
M20-1 (RR+) - Body ground	Engine switch on (IG)	Below 1 V
M20-2 (RR-) - Body ground	Engine switch on (IG)	Below 1 V

- (c) Check for an open in the circuit.
- (1) Turn the engine switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M20-1 (RR+) - M20-2 (RR-)	Always	Below 1 Ω

- (d) Check for a short to ground in the circuit.
- (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M20-1 (RR+) - Body ground	Always	1 M Ω or higher
M20-2 (RR-) - Body ground	Always	1 M Ω or higher

- (e) Check for a short in the circuit.
- (1) Release the activation prevention mechanism built into connector B (See page RS-49).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
M20-1 (RR+) - M20-2 (RR-)	Always	1 M Ω or higher

NG

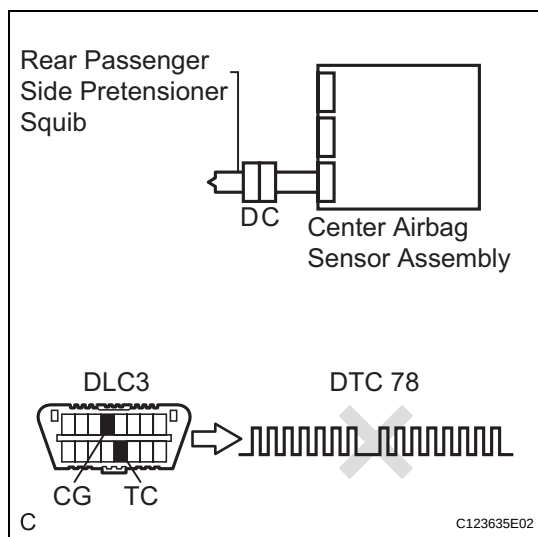
REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

RS

4 CHECK CENTER AIRBAG SENSOR ASSEMBLY

RS



- Connect the connectors to the rear seat outer belt assembly RH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-49](#)).

OK:

DTC B1925, B1926, B1927, B1928 or 78 is not output.

HINT:

Codes other than DTC B1925, B1926, B1927, B1928 and 78 may be output at this time, but they are not related to this check.

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-468](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

DIAGNOSTIC TROUBLE CODE CHART

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, perform troubleshooting for the OCCUPANT CLASSIFICATION SYSTEM as shown in the chart below.
- Use the intelligent tester to read and clear the DTC of the occupant classification ECU, otherwise the DTCs cannot be read and cleared.

RS

OCCUPANT CLASSIFICATION SYSTEM

DTC Code	Detection Item	Trouble Area	Passenger Airbag ON/ OFF Indicator (OFF Indicator)	See page
B1771	Passenger Side Buckle Switch Circuit Malfunction	1. Front seat wire RH 2. Front seat inner belt assembly RH (Passenger side buckle switch) 3. Occupant classification ECU	ON	RS-322
B1773	Belt Tension Sensor Circuit Malfunction	1. Front seat wire RH 2. Front seat outer belt assembly RH (Seat belt tension sensor) 3. Occupant classification ECU	ON	RS-329
B1774	Pressure Sensor Circuit Malfunction	1. Front seat wire RH 2. Occupant classification sensor 3. Occupant classification ECU	ON	RS-336
B1775	Pressure Sensor Power Source Circuit Malfunction	1. Front seat wire RH 2. Occupant classification sensor 3. Occupant classification ECU	ON	RS-336
B1776	Seat Belt Tension Sensor Power Source Circuit Malfunction	1. Front seat wire RH 2. Front seat outer belt assembly RH (Seat belt tension sensor) 3. Occupant classification ECU	ON	RS-329
B1790	Center Airbag Sensor Assembly Communication Circuit Malfunction	1. Floor wire No. 2 2. Front seat wire RH 3. Occupant classification ECU 4. Center airbag sensor assembly	ON	RS-343
B1795	Occupant Classification ECU Malfunction	Occupant classification ECU	ON	RS-355
B1797	Calibration Malfunction	There is no malfunction if this DTC is not output again after performing occupant classification system zero point calibration.	ON	RS-357

DTC	B1771	Passenger Side Buckle Switch Circuit Malfunction
-----	-------	--

DESCRIPTION

RS

The passenger side buckle switch circuit consists of the occupant classification ECU and the front seat inner belt assembly RH.

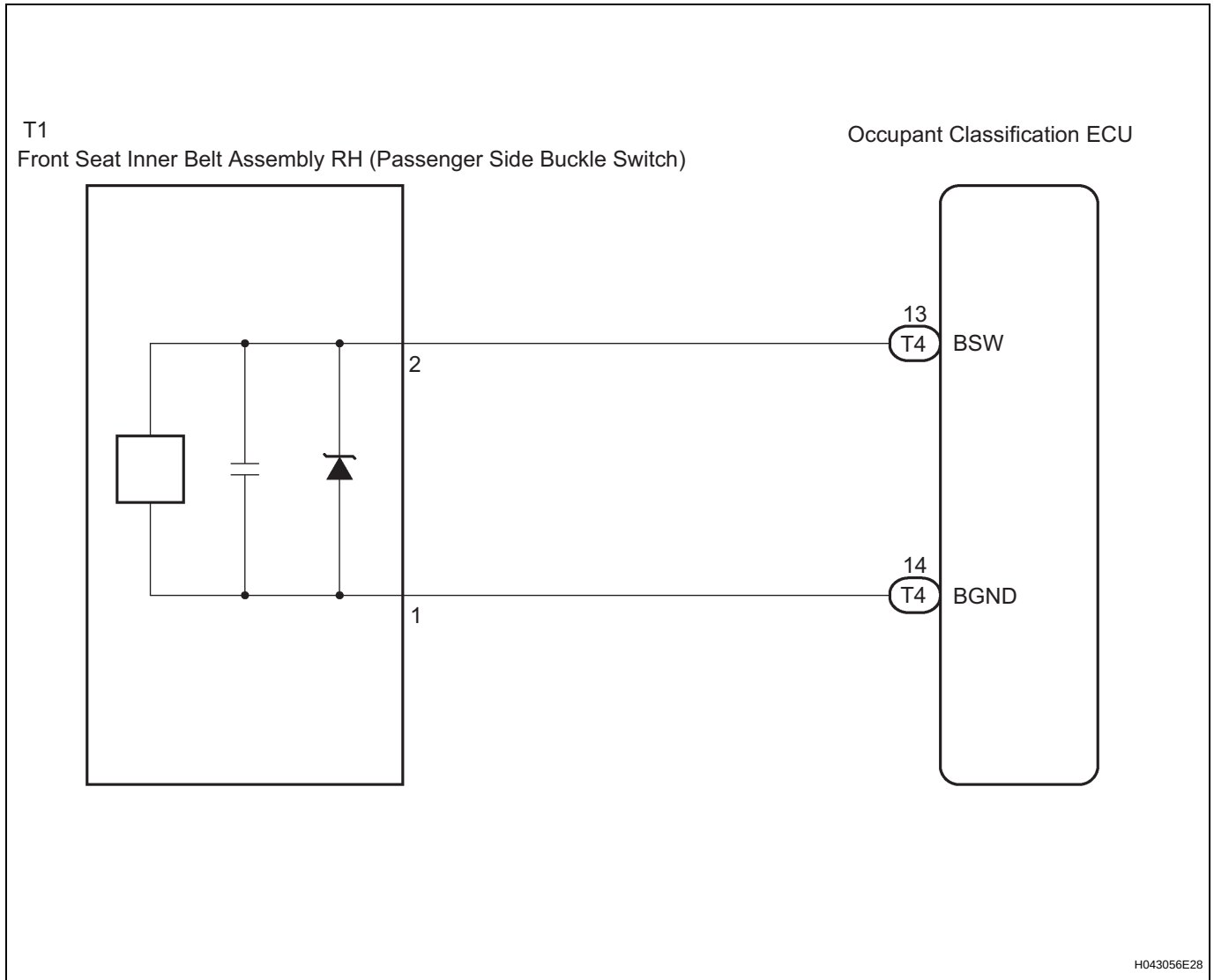
DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1771	- The occupant classification ECU receives a line short circuit signal, and open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in passenger side buckle switch circuit for 2 seconds - Passenger side buckle switch malfunction - Occupant classification ECU malfunction	- Front seat wire RH - Front seat inner belt assembly RH (Passenger side buckle switch) - Occupant classification ECU

HINT:

When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1771 is output, perform troubleshooting for the DTC.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface 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 a problem, such as seat rail deformation. Hold the seat only as necessary.

1
CHECK DTC

- Turn the engine switch on (IG).
- Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG).
- Check the DTCs (See page [RS-318](#)).

OK:

DTC B1771 is not output.

HINT:

Codes other than B1771 may be output at this time, but they are not related to this check.

RS**OK**

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

NG**2****CHECK CONNECTION OF CONNECTORS**

- (a) Turn the engine switch off.
- (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 seat inner belt assembly RH.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY, THEN GO TO STEP 1

OK**3****CHECK CONNECTORS**

- (a) Disconnect the connectors from the occupant classification ECU and front seat inner belt assembly RH.
- (b) Check that the connectors (on the center airbag sensor assembly side and front seat inner belt assembly RH) are not damaged.

OK:

The connectors are not deformed or damaged.

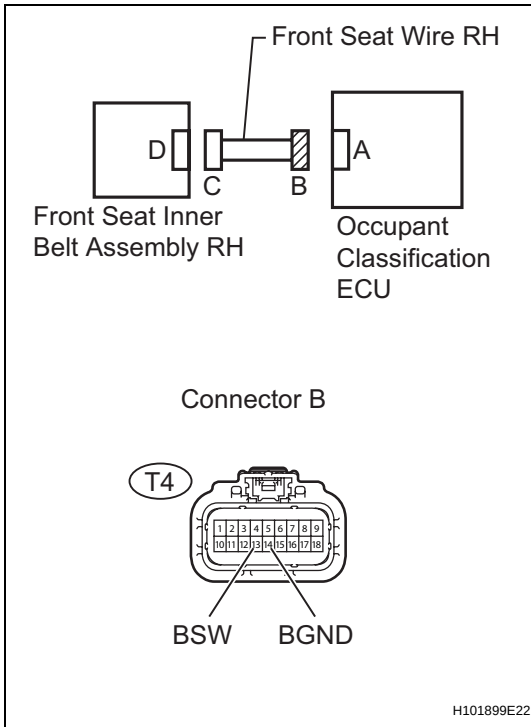
HINT:

If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

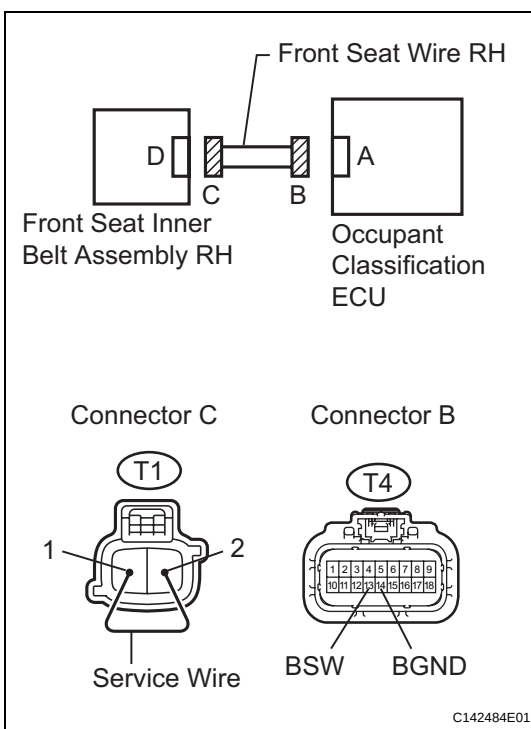
OK

4 CHECK FRONT SEAT WIRE RH (SHORT TO B+)

- Connect the negative (-) terminal cable to the battery.
- Turn the engine switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
T4-13 (BSW) - Body ground	Engine switch on (IG)	Below 1 V
T4-14 (BGND) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****5 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Using a service wire, connect terminals 1 and 2 of connector C.

NOTICE:

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

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

Standard resistance

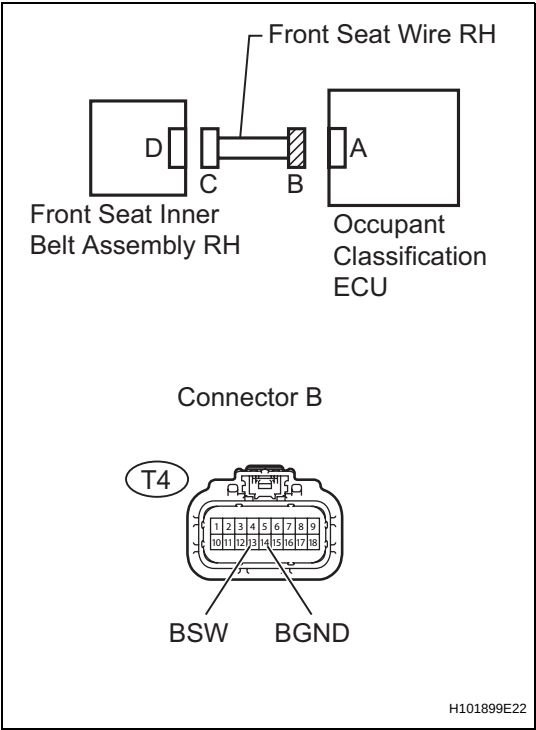
Tester connection	Condition	Specified condition
T4-13 (BSW) - T4-14 (BGND)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

6

CHECK FRONT SEAT WIRE RH (SHORT TO GROUND)

RS



- (a) Disconnect the service wire from connector C.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
T4-13 (BSW) - Body ground	Always	1 MΩ or higher
T4-14 (BGND) - Body ground	Always	1 MΩ or higher

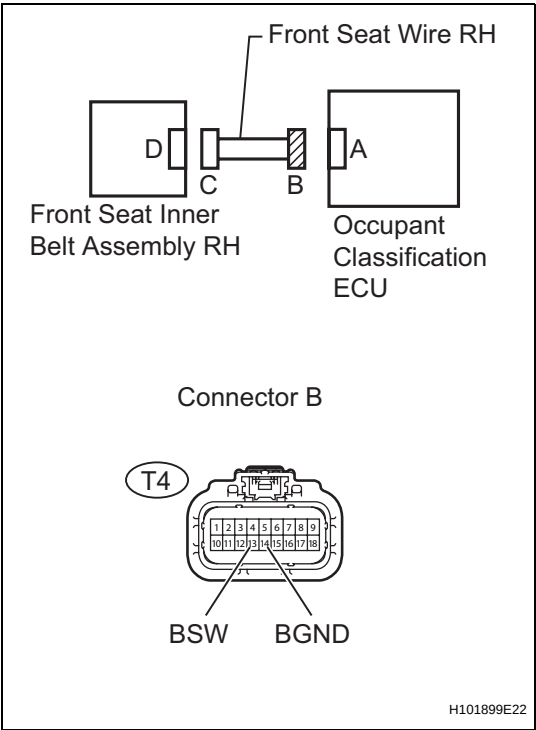
NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

7

CHECK FRONT SEAT WIRE RH (SHORT)



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

Standard resistance

Tester connection	Condition	Specified condition
T4-13 (BSW) - T4-14 (BGND)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

8 CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the front seat inner belt assembly RH.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the engine switch on (IG).
- (d) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (e) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (f) Turn the engine switch off.
- (g) Turn the engine switch on (IG).
- (h) Check the DTCs (See page [RS-318](#)).

OK:**DTC B1771 is not output.****HINT:**

Codes other than B1771 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK (See page [RS-37](#))****NG****9 REPLACE FRONT SEAT INNER BELT ASSEMBLY RH**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the front seat inner belt assembly RH (See page [SB-22](#)).

HINT:

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

- (d) Connect the negative (-) terminal cable to the battery.
- (e) Turn the engine switch on (IG).
- (f) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (g) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG).
- (j) Check the DTCs (See page [RS-318](#)).

OK:**DTC B1771 is not output.****HINT:**

Codes other than B1771 may be output at this time, but they are not related to this check.

OK**END****NG****RS**

10 REPLACE OCCUPANT CLASSIFICATION ECU**RS**

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Using the intelligent tester, save the ECU data from the ECU which has been installed on the vehicle (See page [RS-308](#)).
- (d) Turn the engine switch off.
- (e) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (f) Replace the occupant classification ECU (See page [RS-501](#)).
- (g) Connect the negative (-) terminal cable to the battery.
- (h) Turn the engine switch on (IG).
- (i) Using the intelligent tester, load the previous ECU data stored into the new ECU (See page [RS-308](#)).
- (j) Turn the engine switch off.
- (k) Turn the engine switch on (IG).
- (l) Clear the DTCs stored in the memory (See page [RS-318](#)).

HINT:

If DTC is not cleared at this time, past DTC will remain.

NEXT**11 PERFORM SENSITIVITY CHECK**

- (a) Perform the sensitivity check (See page [RS-312](#)).

NEXT**END**

DTC	B1773	Belt Tension Sensor Circuit Malfunction
DTC	B1776	Seat Belt Tension Sensor Power Source Circuit Malfunction

RS

DESCRIPTION

The seat belt tension sensor circuit consists of the occupant classification ECU and the seat belt tension sensor.

The seat belt tension sensor sends the seat belt tension signal to the occupant classification ECU.

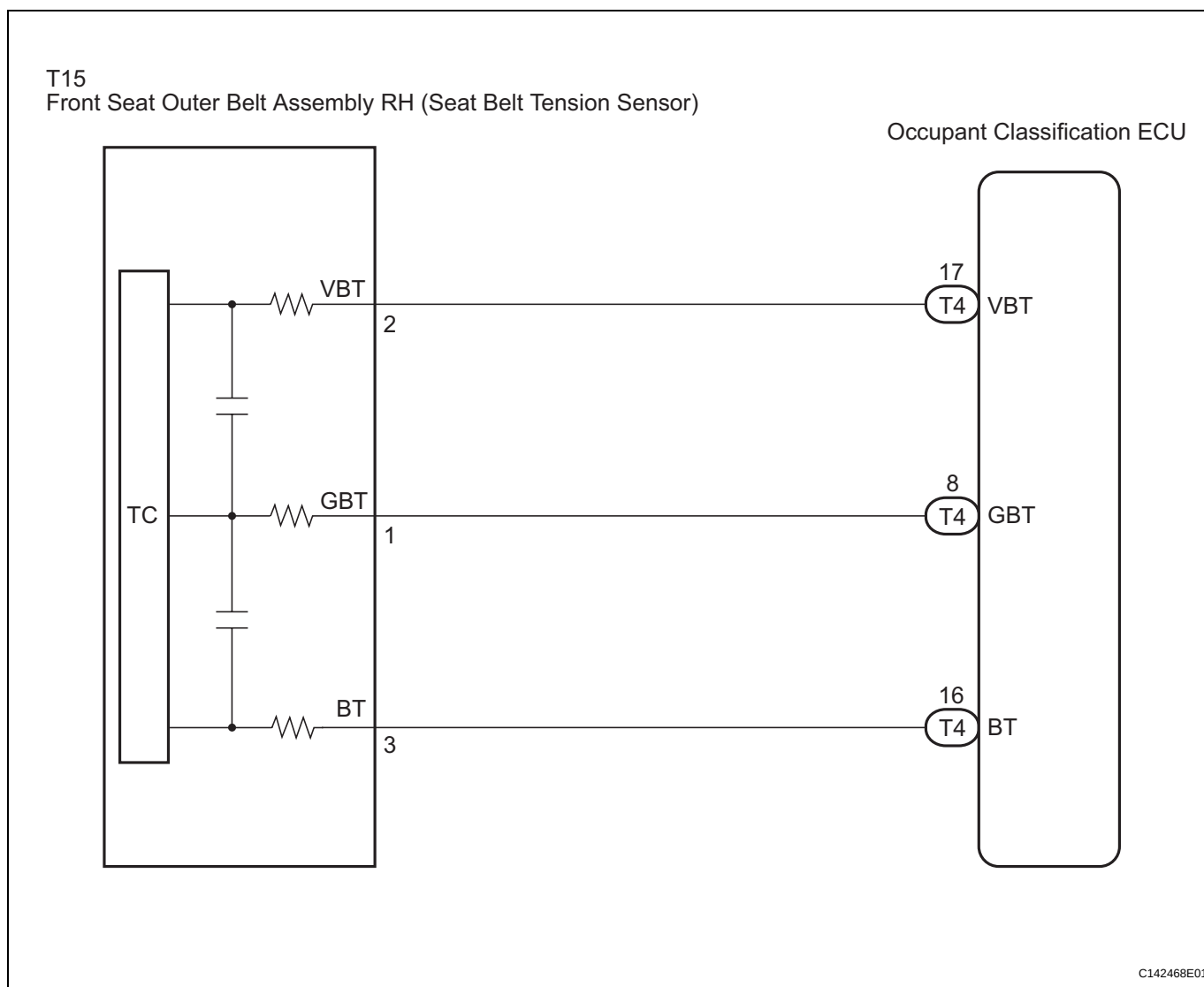
DTC B1773 and B1776 are recorded when a malfunction is detected in the seat belt tension sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1773 B1776	• The occupant classification ECU receives line short circuit signal, and open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the seat belt tension sensor circuit for 2 seconds. • Seat belt tension sensor malfunction • Occupant classification ECU malfunction	• Front seat wire RH • Front seat outer belt assembly RH (Seat belt tension sensor) • Occupant classification ECU

HINT:

When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1773 and B1776 are output, perform troubleshooting for the DTC.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the passenger seat installation bolts to see the undersurface 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 a problem, such as seat rail deformation. Hold the seat only as necessary.

1**CHECK DTC**

- Turn the engine switch on (IG).
- Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG).
- Check the DTCs (See page [RS-318](#)).

OK:

DTC B1773 and B1776 are not output.

HINT:

Codes other than B1773 and B1776 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK (See page [RS-37](#))

RS

NG

2

CHECK CONNECTION OF CONNECTORS

- (a) Turn the engine switch off.
- (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 seat belt tension sensor.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY, THEN GO TO STEP 1

OK

3

CHECK CONNECTORS

- (a) Disconnect the connectors from the occupant classification ECU and the belt tension sensor.
- (b) Check that the connectors (on the center airbag sensor assembly side and seat belt tension sensor side) are not damaged.

OK:

The connectors are not deformed or damaged.

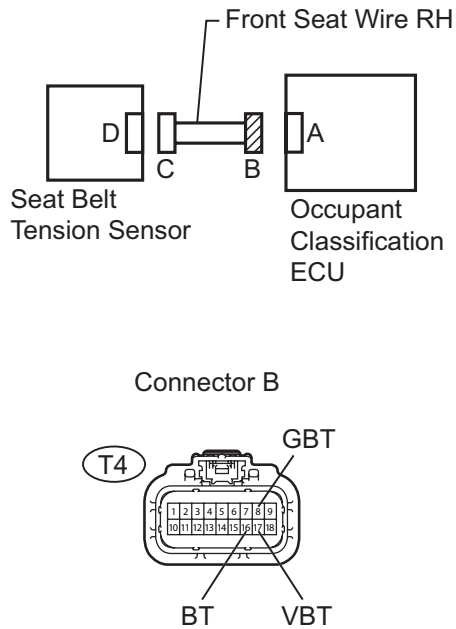
HINT:

If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

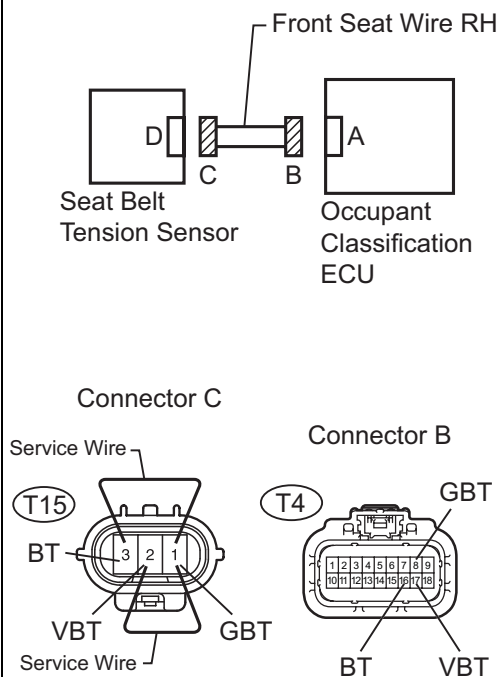
4 CHECK FRONT SEAT WIRE RH (SHORT TO B+)

H101899E33

- Connect the negative (-) terminal cable to the battery.
- Turn the engine switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
T4-8 (GBT) - Body ground	Engine switch on (IG)	Below 1 V
T4-16 (BT) - Body ground	Engine switch on (IG)	Below 1 V
T4-17 (VBT) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****5 CHECK FRONT SEAT WIRE RH (OPEN)**

C142469E02

- Turn the engine switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Using a service wire, connect terminals 1 (GBT) and 3 (BT), and connect terminals 1 (GBT) and 2 (VBT) of connector C.

NOTICE:

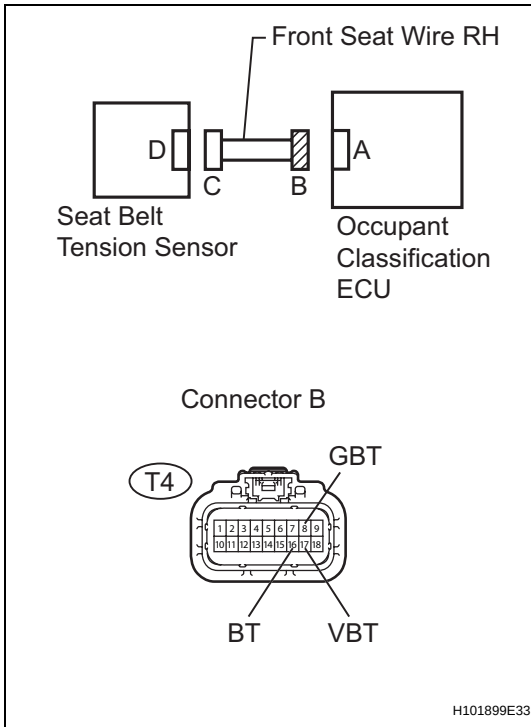
Do not forcibly insert the service wire into the terminals of the connector when connecting the wire.

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

Standard resistance

Tester Connection	Condition	Specified Condition
T4-16 (BT) - T4-8 (GBT)	Always	Below 1 Ω
T4-17 (VBT) - T4-8 (GBT)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

6 CHECK FRONT SEAT WIRE RH (SHORT TO GROUND)

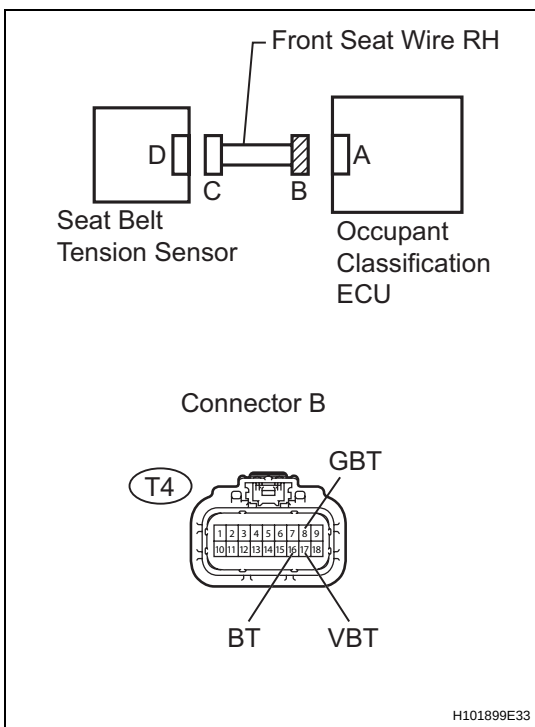
OK

- (a) Disconnect the service wire from connector C.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
T4-8 (GBT) - Body ground	Always	1 MΩ or higher
T4-16 (BT) - Body ground	Always	1 MΩ or higher
T4-17 (VBT) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH**7 CHECK FRONT SEAT WIRE RH (SHORT)**

OK

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

Standard resistance

Tester Connection	Condition	Specified Condition
T4-16 (BT) - T4-8 (GBT)	Always	1 MΩ or higher
T4-17 (VBT) - T4-8 (GBT)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

8 CHECK DTC**RS**

- (a) Connect the connectors to the occupant classification ECU and the seat belt tension sensor.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the engine switch on (IG).
- (d) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (e) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (f) Turn the engine switch off.
- (g) Turn the engine switch on (IG).
- (h) Check the DTCs (See page [RS-318](#)).

OK:**DTC B1773 and B1776 are not output.****HINT:**

Codes other than B1773 and B1776 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK (See page [RS-37](#))****NG****9 REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

- (a) Turn the engine switch off.
 - (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (c) Replace the front seat outer belt assembly (See page [SB-27](#)).
- HINT:**
Perform the inspection using parts from a normal vehicle if possible.
- (d) Connect the negative (-) terminal cable to the battery.
 - (e) Turn the engine switch on (IG).
 - (f) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
 - (g) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
 - (h) Turn the engine switch off.
 - (i) Turn the engine switch on (IG).
 - (j) Check the DTCs (See page [RS-318](#)).

OK:**DTC B1773 and B1776 are not output.****HINT:**

Codes other than B1773 and B1776 may be output at this time, but they are not related to this check.

OK**END****NG**

10 REPLACE OCCUPANT CLASSIFICATION ECU

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Using the intelligent tester, save the ECU data from the ECU which has been installed on the vehicle (See page [RS-308](#)).
- (d) Turn the engine switch off.
- (e) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (f) Replace the occupant classification ECU (See page [RS-501](#)).
- (g) Connect the negative (-) terminal cable to the battery.
- (h) Turn the engine switch on (IG).
- (i) Using the intelligent tester, load the previous ECU data stored into the new ECU (See page [RS-308](#)).
- (j) Turn the engine switch off.
- (k) Turn the engine switch on (IG).
- (l) Clear the DTCs stored in the memory (See page [RS-318](#)).

HINT:

If DTC is not cleared at this time, past DTC will remain.

NEXT

11 PERFORM SENSITIVITY CHECK

- (a) Perform the sensitivity check (See page [RS-312](#)).

NEXT

END

RS

DTC	B1774	Pressure Sensor Circuit Malfunction
DTC	B1775	Pressure Sensor Power Source Circuit Malfunction

RS

DESCRIPTION

The pressure sensor circuit consists of the occupant classification ECU and the occupant classification sensor.

The occupant classification sensor sends the pressure signal to the occupant classification ECU.

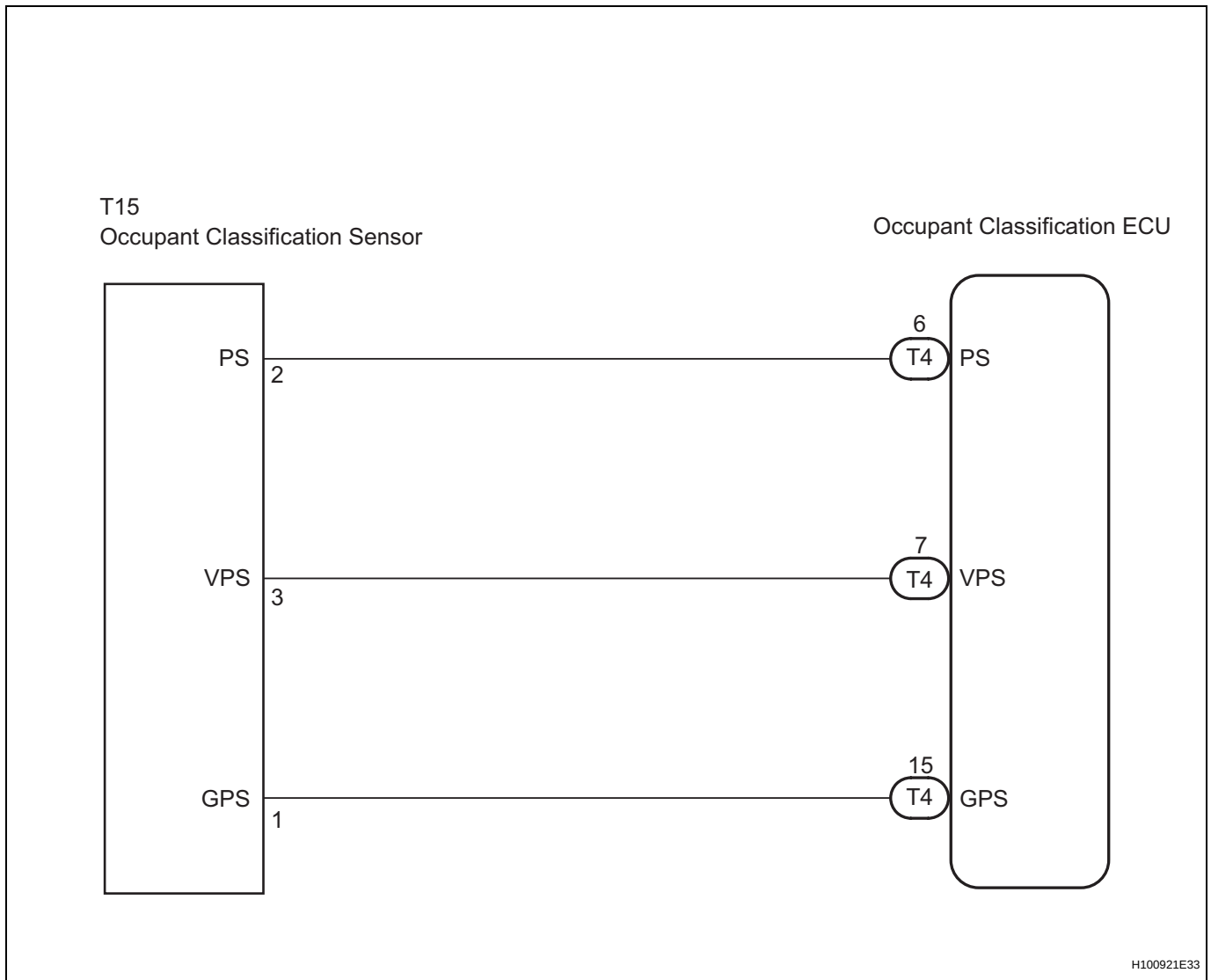
DTC B1774 and B1775 are recorded when a malfunction is detected in the pressure sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1774 B1775	- The occupant classification ECU receives a line short circuit signal, and open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the pressure sensor circuit for 2 seconds. - Occupant classification sensor malfunction - Occupant classification ECU malfunction	- Front seat wire RH - Occupant classification sensor - Occupant classification ECU

HINT:

When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1774 and B1775 are output, perform troubleshooting for the DTC.

WIRING DIAGRAM


RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the passenger seat installation bolts to see the undersurface 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 a problem, such as seat rail deformation. Hold the seat only as necessary.
- After performing the zero point calibration, check for DTCs to confirm that the calibration is completed normally. (If it fails, DTC B1797 will be output.)

1
CHECK DTC

- Turn the engine switch on (IG).
- Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG).

- (f) Check the DTCs (See page [RS-318](#)).

OK:

DTC B1774 and B1775 are not output.

HINT:

Codes other than B1774 and B1775 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK (See page [RS-315](#))

NG

2

CHECK CONNECTION OF CONNECTORS

- (a) Turn the engine switch off.
- (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 occupant classification sensor.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY, THEN GO TO STEP 1

OK

3

CHECK CONNECTORS

- (a) Disconnect the connectors from the occupant classification ECU and the occupant classification sensor.
- (b) Check that the connectors (on the center airbag sensor assembly and occupant classification sensor side) are not damaged.

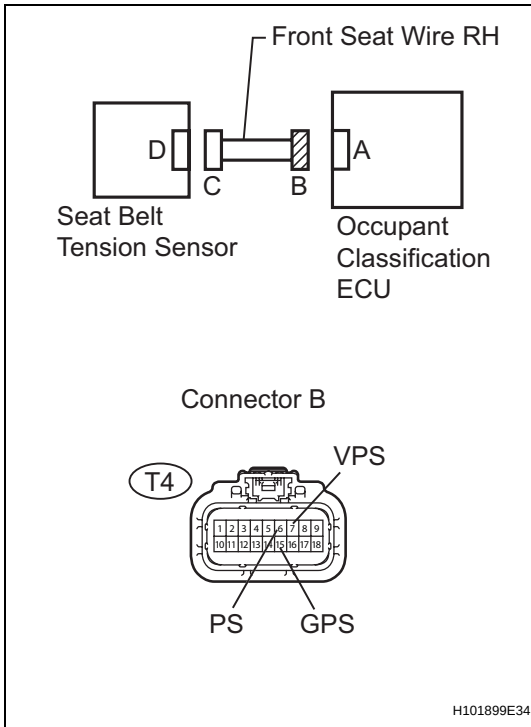
OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

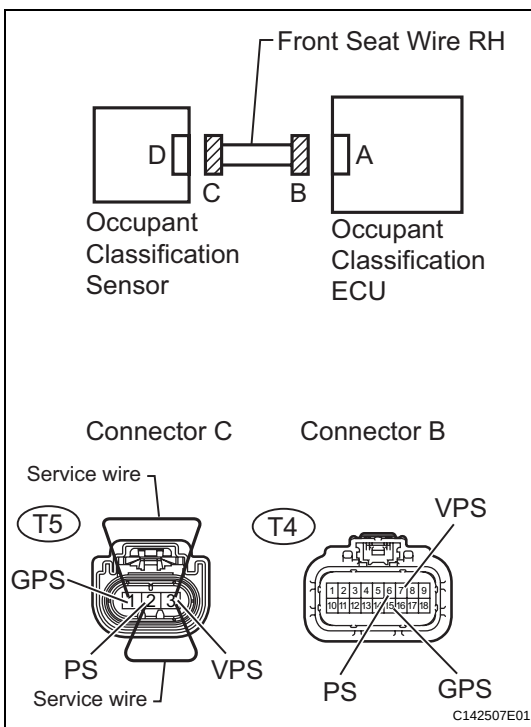
OK

4 CHECK FRONT SEAT WIRE RH (SHORT TO B+)

- (a) Connect the negative (-) terminal cable to the battery.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
T4-6 (PS) - Body ground	Engine switch on (IG)	Below 1 V
T4-7 (VPS) - Body ground	Engine switch on (IG)	Below 1 V
T4-15 (GPS) - Body ground	Engine switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****5 CHECK FRONT SEAT WIRE RH (OPEN)**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Using a service wire, connect terminals 1 (GPS) and 3 (VPS), and connect terminals 2 (PS) and 3 (VPS) of connector C.

NOTICE:

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

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

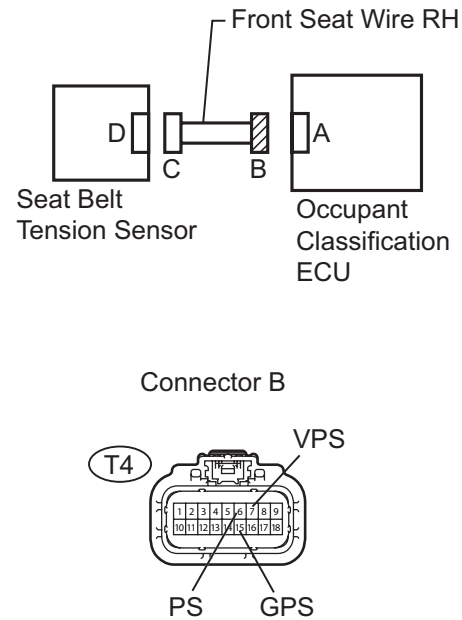
Standard resistance

Tester Connection	Condition	Specified Condition
T4-6 (PS) - T4-7 (VPS)	Always	Below 1 Ω
T4-7 (VPS) - T4-15 (GPS)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

6

CHECK FRONT SEAT WIRE RH (SHORT TO GROUND)



- (a) Disconnect the service wire from connector C.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
T4-6 (PS) - Body ground	Always	1 MΩ or higher
T4-7 (VPS) - Body ground	Always	1 MΩ or higher
T4-15 (GPS) - Body ground	Always	1 MΩ or higher

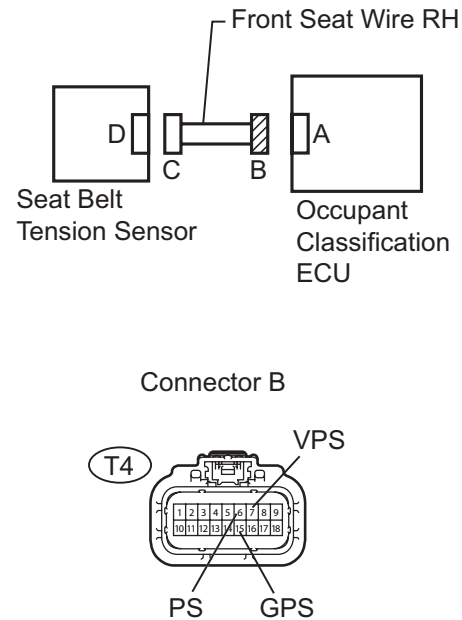
NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

7

CHECK FRONT SEAT WIRE RH (SHORT)



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

Standard resistance

Tester Connection	Condition	Specified Condition
T4-6 (PS) - T4-15 (GPS)	Always	1 MΩ or higher
T4-7 (VPS) - T4-15 (GPS)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

8 CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the occupant classification sensor.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the engine switch on (IG).
- (d) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (e) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (f) Turn the engine switch off.
- (g) Turn the engine switch on (IG).
- (h) Check the DTCs (See page [RS-318](#)).

OK:**DTCs B1774 and B1775 are not output.****HINT:**

Codes other than B1774 and B1775 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK (See page [RS-315](#))****NG****9 REPLACE OCCUPANT CLASSIFICATION SENSOR (FRONT SEAT CUSHION ASSEMBLY)**

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the front seat cushion assembly (with occupant classification ECU and occupant classification sensor) (See page [RS-501](#)).

HINT:

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

- (d) Connect the negative (-) terminal cable to the battery.
- (e) Turn the engine switch on (IG).
- (f) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (g) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG).
- (j) Check the DTCs (See page [RS-318](#)).

OK:**DTC B1774 and B1775 are not output.****HINT:**

Codes other than B1774 and B1775 may be output at this time, but they are not related to this check.

NEXT**RS**

RS

10 PERFORM ZERO POINT CALIBRATION

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Using the intelligent tester, perform the zero point calibration (See page [RS-312](#)).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG).
- (f) Clear the DTCs stored in the memory (See page [RS-318](#)).

HINT:

If DTC is not cleared at this time, past DTC will remain.

NEXT**11 CHECK DTC****HINT:**Check that the zero point calibration is completed normally. If any of the following conditions is met, DTC B1797 will be output (Refer to INITIALIZATION: See page [RS-312](#)):

- Zero point calibration is performed when the conditions for the calibration are not satisfied.
 - Zero point calibration has failed.
- (a) Turn the engine switch on (IG).
 - (b) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
 - (c) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
 - (d) Turn the engine switch off.
 - (e) Turn the engine switch on (IG).
 - (f) Check the DTCs (See page [RS-49](#)).

OK:**DTC B1797 is not output.****NG****GO TO DTC B1797 (See page [RS-357](#))****OK****12 PERFORM SENSITIVITY CHECK**

- (a) Perform the sensitivity check (See page [RS-312](#)).

NEXT**END**

DTC**B1790****Center Airbag Sensor Assembly Communication 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 recorded when a malfunction is detected in the center airbag sensor assembly communication circuit.

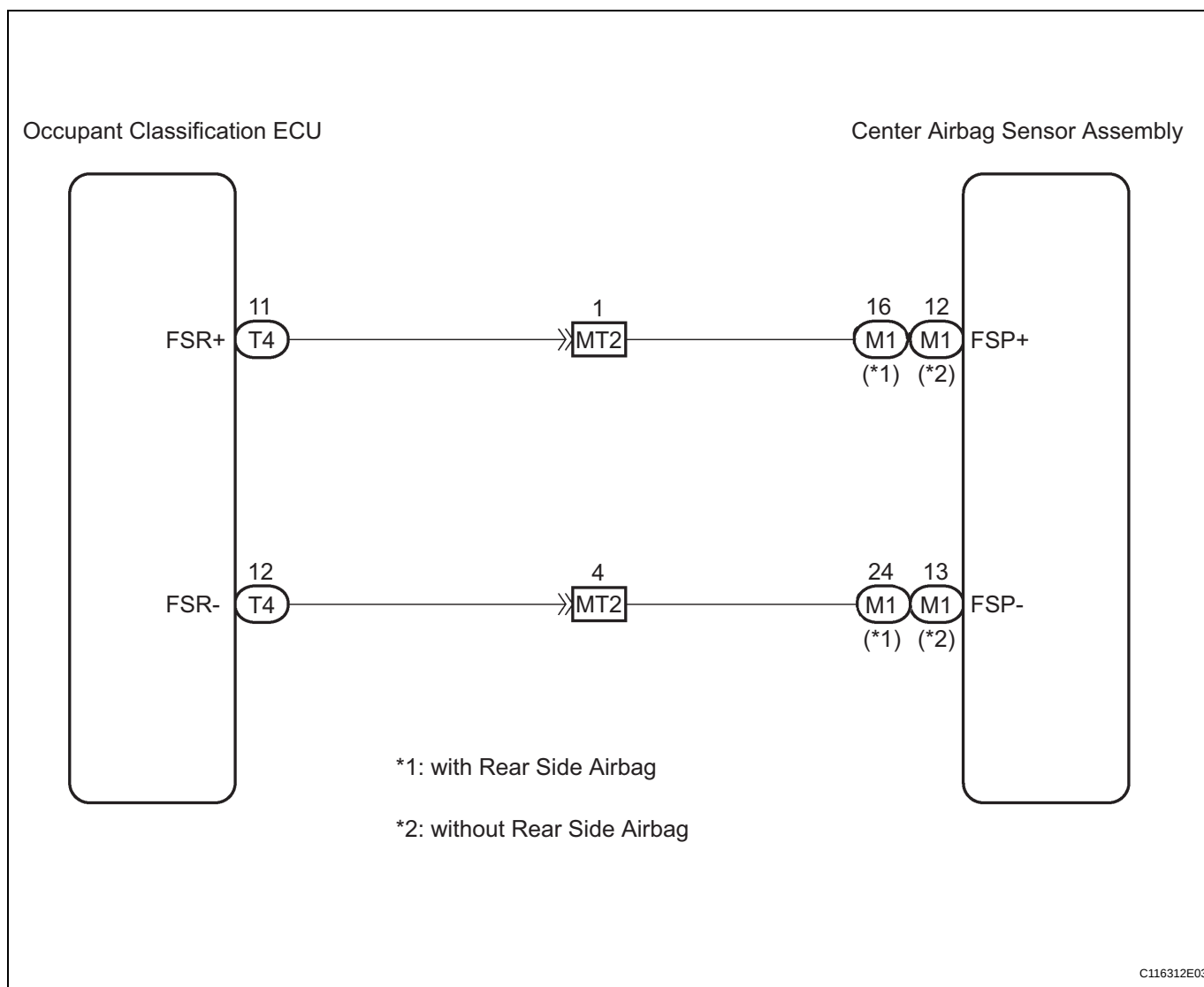
DTC No.	DTC Detecting Condition	Trouble Area
B1790	• The occupant classification ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the center airbag sensor assembly communication circuit for 2 seconds. • Center airbag sensor assembly malfunction • Occupant classification ECU malfunction	• Floor wire No. 2 • Front seat wire RH (for Power seat) • Occupant classification ECU • Center airbag sensor assembly

HINT:

When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1790 is output, perform troubleshooting for the DTC.

RS

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface 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 a problem, such as seat rail deformation. Hold the seat only as necessary.

1**CHECK DTC**

- Turn the engine switch on (IG).
- Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG).
- Check the DTCs (See page [RS-318](#)).

OK:

DTC B1790 is not output.

HINT:

Codes other than DTC B1790 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK (See page RS-37)

RS

NG

2

CHECK CONNECTION OF CONNECTORS

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (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 PROPERLY, THEN GO TO STEP 1

OK

3

CHECK CONNECTORS

- (a) Disconnect the connectors from the center airbag sensor assembly and the occupant classification ECU.
- (b) Check that the connectors (on the center airbag sensor assembly side and occupant classification ECU side) are not damaged.

OK:

The connectors are not deformed or damaged.

NG

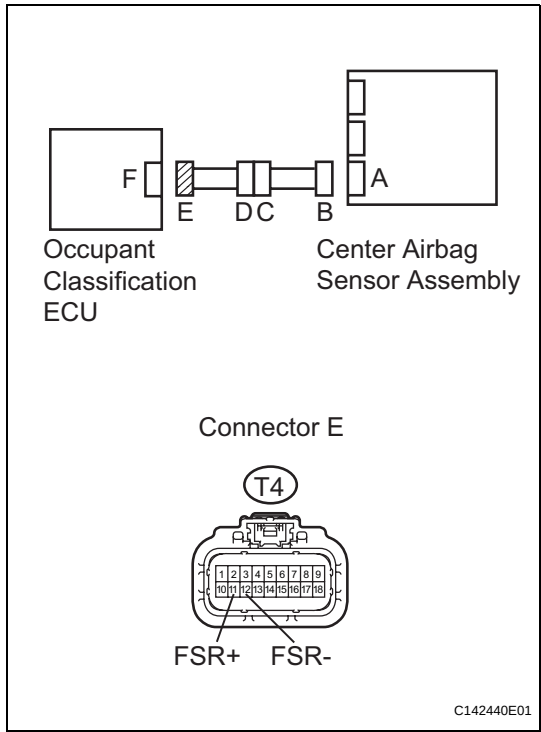
REPAIR OR REPLACE WIRE HARNESS

OK

4

CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (SHORT TO B+)

RS



OK

- (a) Connect the negative (-) terminal cable to the battery.
- (b) Turn the engine switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

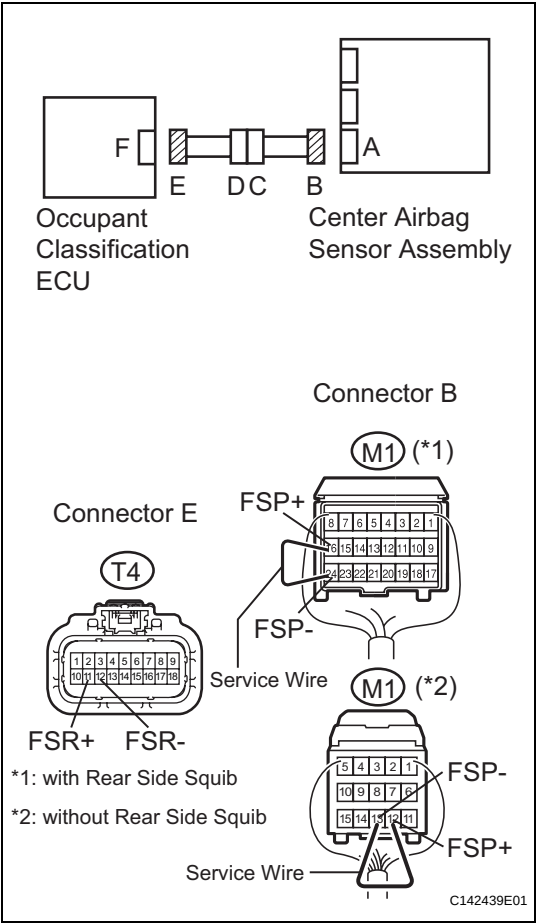
Standard voltage

Tester connection	Condition	Specified condition
T4-11 (FSR+) - Body ground	Engine switch on (IG)	Below 1 V
T4-12 (FSR-) - Body ground	Engine switch on (IG)	Below 1 V

NG

Go to step 13

5 CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (OPEN)



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) with Rear side airbag:
Using a service wire, connect terminals 16 (FSP+) and 24 (FSP-) of connector B.

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

- (d) without Rear side airbag:
Using a service wire, connect terminals 12 (FSP+) and 13 (FSP-) of connector B.

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

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

Standard resistance

Tester connection	Condition	Specified condition
T4-11 (FSR+) - T4-12 (FSR-)	Always	Below 1 Ω

NG

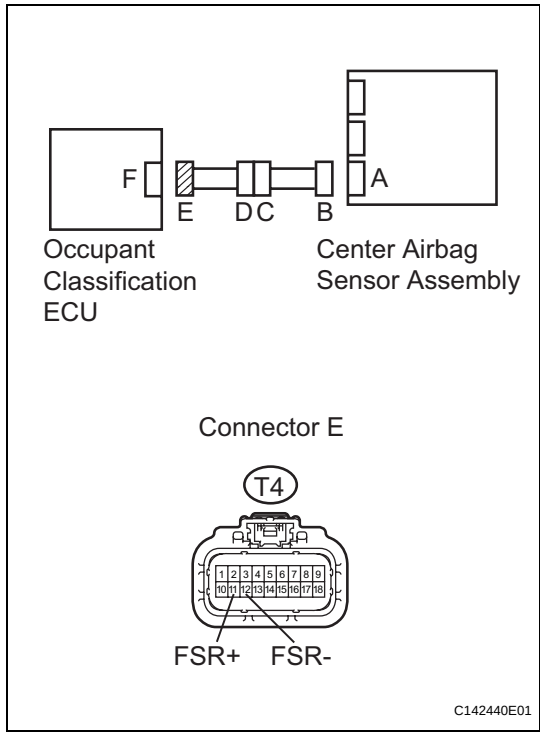
Go to step 14

OK

6

CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (SHORT)

RS



- (a) Disconnect the service wire from connector B.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
T4-11 (FSR+) - T4-12 (FSR-)	Always	1 MΩ or higher

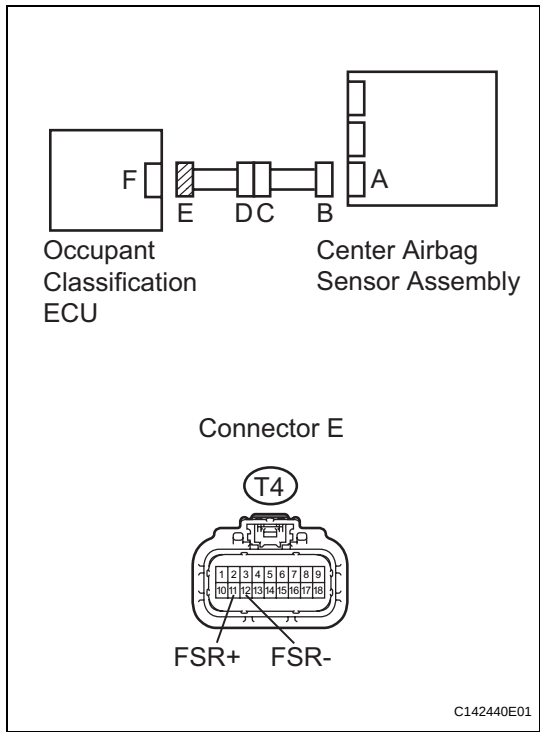
NG

Go to step 15

OK

7

CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (SHORT TO GROUND)



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

Standard resistance

Tester connection	Condition	Specified condition
T4-11 (FSR+) - Body ground	Always	1 MΩ or higher
T4-12 (FSR-) - Body ground	Always	1 MΩ or higher

NG

Go to step 16

OK

8**RECHECK DTC**

- (a) Connect the connectors to the occupant classification ECU and the center airbag sensor assembly.
- (b) Connect the intelligent tester to the DLC3.
- (c) Connect the negative (-) terminal cable to the battery.
- (d) Turn the engine switch on (IG).
- (e) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (f) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (g) Turn the engine switch off.
- (h) Turn the engine switch on (IG).
- (i) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page [RS-318](#)).

OK:**DTC B1790 is not output.****HINT:**

Codes other than DTC B1790 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK (See page [RS-37](#))****NG****9****REPLACE OCCUPANT CLASSIFICATION ECU**

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Using the intelligent tester, save the ECU data from the ECU which has been installed on the vehicle (See page [RS-308](#)).
- (d) Turn the engine switch off.
- (e) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (f) Replace the occupant classification ECU (See page [RS-501](#)).
- (g) Connect the negative (-) terminal cable to the battery.
- (h) Turn the engine switch on (IG).
- (i) Using the intelligent tester, load the previous ECU data stored into the new ECU (See page [RS-308](#)).
- (j) Turn the engine switch off.
- (k) Turn the engine switch on (IG).
- (l) Clear the DTCs stored in the memory (See page [RS-318](#)).

HINT:

If the DTCs are not cleared at this time, past DTCs will remain.

NEXT**RS**

RS

10 RECHECK DTC

- (a) Turn the engine switch on (IG).
- (b) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (c) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG).
- (f) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page [RS-318](#)).

OK:**DTC B1790 is not output.****HINT:**

Codes other than DTC B1790 may be output at this time, but they are not related to this check.

OK**Go to step 12****NG****11 REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

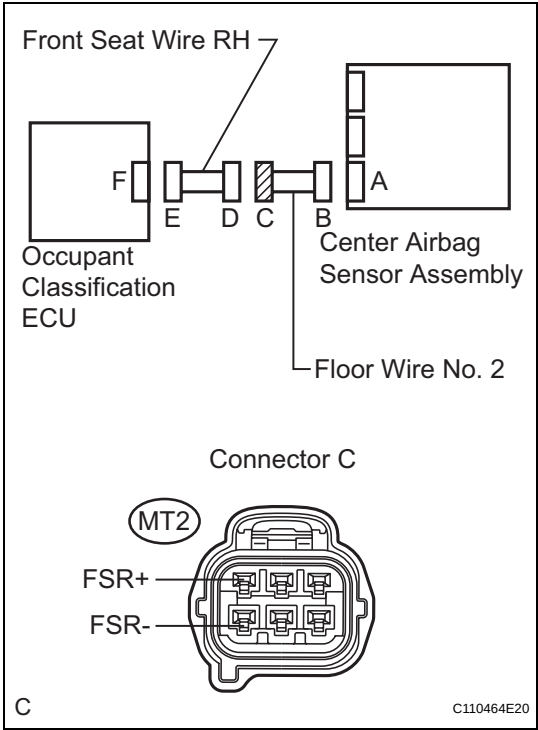
- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the center airbag sensor assembly (See page [RS-468](#)).

NEXT**12 PERFORM SENSITIVITY CHECK**

- (a) Perform the sensitivity check (See page [RS-312](#)).

NEXT**END**

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



- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the front seat wire RH connector from the floor wire No. 2.
- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the engine switch on (IG).
- (f) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
MT2-1 (FSR+) - Body ground	Engine switch on (IG)	Below 1 V
MT2-4 (FSR-) - Body ground	Engine switch on (IG)	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

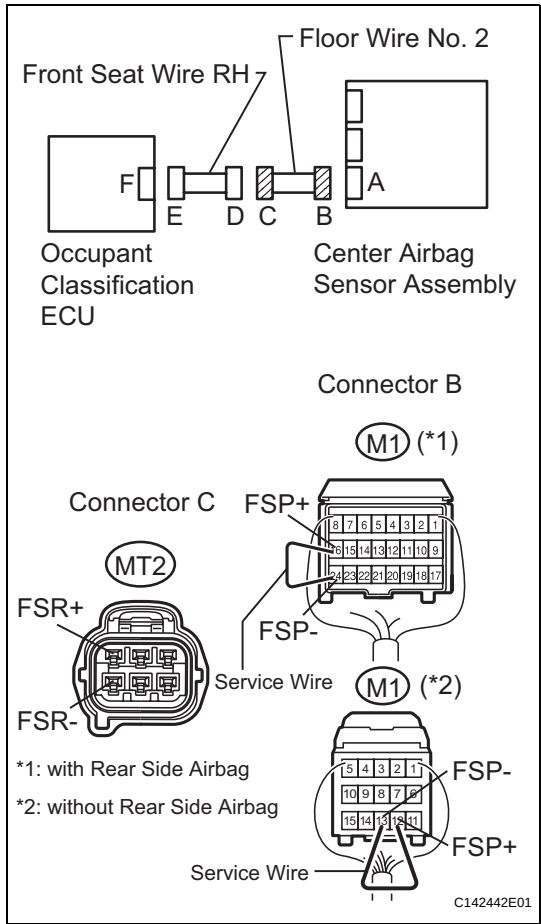
OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

14

CHECK FLOOR WIRE NO. 2 (OPEN)

RS



- (a) Disconnect the front seat wire RH connector from the floor wire No. 2.
- HINT:
The service wire has already been inserted into connector B.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
MT2-1 (FSR+) - MT2-4 (FSR-)	Always	Below 1 Ω

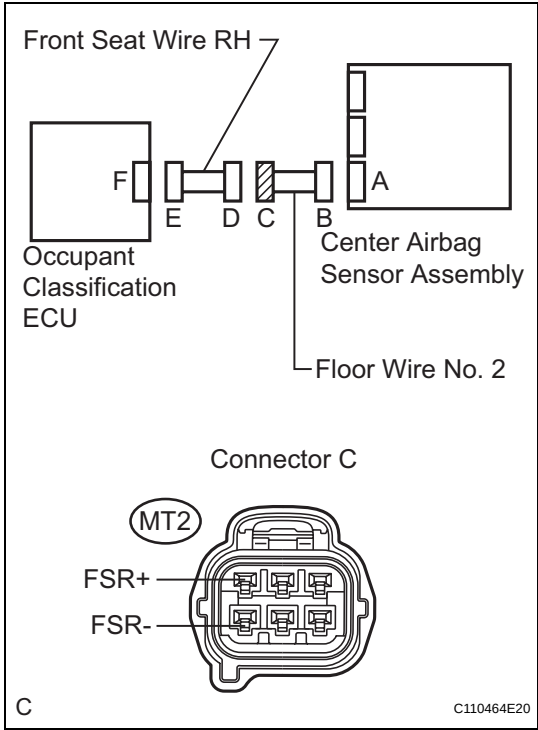
NG REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

15

CHECK FLOOR WIRE NO. 2 (SHORT)



- (a) Disconnect the front seat wire RH connector from the floor wire No. 2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
MT2-1 (FSR+) - MT2-4 (FSR-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

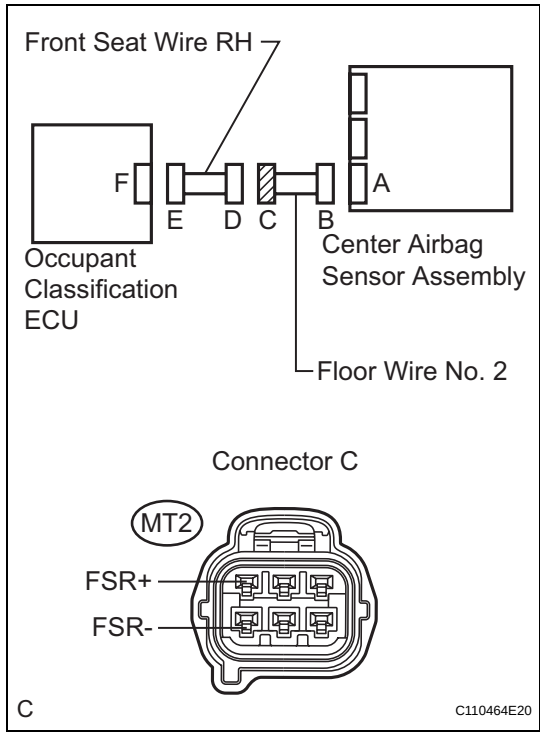
OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

RS

16

CHECK FLOOR WIRE NO. 2 (SHORT TO GROUND)



- (a) Disconnect the front seat wire RH connector from the floor wire No. 2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
MT2-1 (FSR+) - Body ground	Always	1 MΩ or higher
MT2-4 (FSR-) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE NO. 2

OK

REPAIR OR REPLACE FRONT SEAT WIRE RH

DTC**B1797****Calibration Malfunction****DESCRIPTION**

DTC B1797 is output when the following condition is met:

- Zero point calibration is performed when the conditions for the calibration are not satisfied.
- Zero point calibration has failed.

Condition for the zero point calibration:

Item	Condition
DTC	Not recorded
Front passenger seat occupant	Vacant
Front passenger side buckle switch	OFF (The seat belt is not fastened)
ECU temperature	0 to 46°C (32 to 114.8°F)
Filtered pressure	38 to 75 count

DTC No.	DTC Detecting Condition	Trouble Area
B1797	• Zero point calibration is performed when the conditions for the calibration are not satisfied. • Zero point calibration has failed.	• There is no malfunction if this DTC is not output again after performing occupant classification system zero point calibration. • Occupant classification sensor

HINT:

When DTC B1650/32 is detected as a result of troubleshooting for the AIRBAG SYSTEM, check the DTCs stored in the occupant classification ECU. When DTC B1797 is output, perform troubleshooting for the DTC.

INSPECTION PROCEDURE**1****CHECK DTC**

- Turn the engine switch on (IG).
- Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- Turn the engine switch off.
- Turn the engine switch on (IG), and wait for at least 10 seconds.
- Check the DTCs (See page [RS-318](#)).

OK:

DTC B1797 is not output.

HINT:

Codes other than B1797 may be output at this time, but they are not related to this check.

OK**PERFORM ZERO POINT CALIBRATION****NG****2****READ VALUE OF DATA LIST (SPECIFIED CONDITION FOR ZERO POINT CALIBRATION)**

- Connect the intelligent tester to the DLC3.
- Turn the engine switch on (IG).

RS

(c) Using the intelligent tester, read the DATA LIST (See page [RS-319](#)).

Item	Measurement Item/ Range (Display)	Normal Condition	Specified Condition for Zero Point Calibration
RELATIVE PRESS	Pressure sensor output/ Min.: 0 Max.: 255	0 to 210 (reference value)	0 to 2
THERMISTOR TEMP	Thermistor temperature output/ Min.: -40°C (-40°F) Max.: 90°C (194°F)	-40 to 85°C (-40 to 185°F)	3 to 40°C (36 to 104°F)
#PRESENT CODES	Number of present trouble codes/ Min.: 0 Max.: 255	0	0
#PAST CODES	Number of past trouble codes/ Min.: 0 Max.: 255	0	0

Result

Result	Proceed to
All items correspond to the range of specified condition for zero point calibration.	A
THERMISTOR TEMP does not correspond to the range of specified condition for zero point calibration.	B

B

Go to step 6

A

3

CHECK DTC

HINT:

Check that the zero point calibration is completed normally. If any of the following condition is met, DTC B1797 will be output (Refer to INITIALIZATION: See page [RS-312](#)).

- Zero point calibration is performed when the the calibration conditions are not satisfied.
- Zero point calibration has failed.
 - (a) Turn the engine switch on (IG).
 - (b) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
 - (c) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
 - (d) Turn the engine switch off.
 - (e) Turn the engine switch on (IG).
 - (f) Check the DTCs (See page [RS-318](#)).

OK:

DTC B1797 is not output.

NEXT

4

PERFORM ZERO POINT CALIBRATION

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Using the intelligent tester, perform the zero point calibration (See page [RS-312](#)).
- (d) Turn the engine switch off.

- (e) Turn the engine switch on (IG).
 - (f) Clear the DTCs stored in the memory (See page [RS-318](#)).
- HINT:
If the DTCs are not cleared at this time, past DTCs will remain.

NEXT

RS

5 CHECK DTC

- (a) Turn the engine switch on (IG).
- (b) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (c) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG).
- (f) Check the DTCs (See page [RS-318](#)).

OK:

DTC B1797 is not output.

HINT:

Codes other than B1797 may be output at this time, but they are not related to this check.

NEXT

END

6 REPLACE OCCUPANT CLASSIFICATION SENSOR (FRONT SEAT CUSHION ASSEMBLY)

- (a) Turn the engine switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the front seat cushion assembly (with occupant classification ECU and occupant classification sensor) (See page [RS-490](#)).
- (d) Connect the negative (-) terminal cable to the battery.
- (e) Turn the engine switch on (IG).
- (f) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (g) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (h) Turn the engine switch off.
- (i) Turn the engine switch on (IG).
- (j) Using the intelligent tester, check the DTCs of the occupant classification ECU (See page [RS-318](#)).

OK:

DTC is not output.

NEXT

7 PERFORM ZERO POINT CALIBRATION**RS**

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Using the intelligent tester, perform the zero point calibration (See page [RS-312](#)).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG).
- (f) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).

HINT:

If the DTCs are not cleared at this time, past DTCs will remain.

NEXT**8 CHECK DTC**

- (a) Turn the engine switch on (IG).
- (b) Clear the DTCs stored in the occupant classification ECU (See page [RS-318](#)).
- (c) Clear the DTCs stored in the center airbag sensor assembly (See page [RS-49](#)).
- (d) Turn the engine switch off.
- (e) Turn the engine switch on (IG).
- (f) Check the DTCs (See page [RS-318](#)).

OK:

DTC B1797 is not output.

NEXT**9 PERFORM SENSITIVITY CHECK**

- (a) Perform the sensitivity check (See page [RS-312](#)).

NEXT**END**