SUPPLEMENTAL RESTRAINT SYSTEM (Apr., 2003)

05256–15

HOW TO PROCEED WITH TROUBLESHOOTING

The hand–held tester can be used at step 4, 6, 8 and 9.

1	VEHICLE BROUGHT TO WORKSHOP

2	CUSTOMER PROBLEM ANALYSIS (See page 05–423)

3	WARNING LIGHT CHECK (See page 05–424)

4	THE DTCs CHECK (Present and Past DTCs) (See page 05–424)

- DTCs IS OUTPUT (INCLUDING NORMAL SYSTEM CODE): Go to step 5
- DTCs IS NOT OUTPUT: PROBLEM SYMPTOMS TABLE (See page 05–436)

5	THE DTCs CHART (See page 05–430)

6	CIRCUIT INSPECTION (See page 05–437 to 05–579)

- TROUBLE CODE IS OUTPUT: Go to step 7
- NORMAL SYSTEM CODE IS OUTPUT: Go to step 11

7	REPAIR

8	CLEAR THE DTCs (Present and Past DTCs) (See page 05–424)

9	THE DTCs CHECK (Present and Past DTCs) (See page 05–424)

→ DTCs IS NOT OUTPUT: Go to step 10

→ DTCs IS OUTPUT: Go to step 5

10	SYMPTOM SIMULATION (See page 01–20)

→ WARNING LIGHT REMAINS OFF: Go to step 11

→ WARNING LIGHT IS ON: Go to step 5

11	CONFIRMATION TEST

END

05257–12

CUSTOMER PROBLEM ANALYSIS CHECK

Supplemental Restraint System Check Sheet

Inspector's Name _____

Customer's Name		**Registration No.**	
		Registration Year	
		Frame No.	
Date Vehicle Brought In		**Odometer Reading**	**km Miles**

Date Problem Occurred	
Weather	☐ **Fine** ☐ **Cloudy** ☐ **Rainy** ☐ **Snowy** ☐ **Other**
Temperature	**Approx.**

Vehicle Operation	☐ **Starting** ☐ **Idling** ☐ **Driving [** ☐ **Constant speed** ☐ **Acceleration** ☐ **Deceleration** ☐ **Other]**
Road Condition	
Details Of Problem	

Vehicle Inspection, Repair History Prior to Occurrence of Malfunction (Including Supplemental Restraint System)	

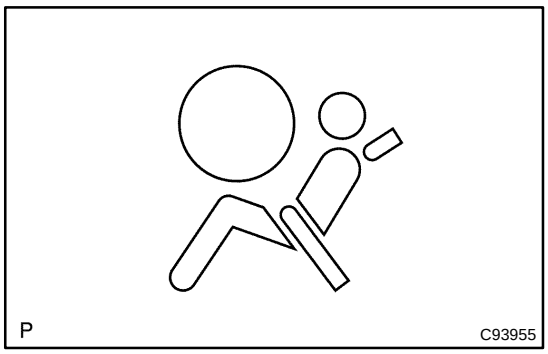
Diagnosis System Inspection

SRS Warning Light Inspection	**1st Time**	☐ **Remains ON** ☐ **Sometimes Lights Up** ☐ **Does Not Light Up**
	2nd Time	☐ **Remains ON** ☐ **Sometimes Lights Up** ☐ **Does Not Light Up**
DTC Inspection	**1st Time**	☐ **Normal Code** ☐ **Malfunction Code [Code.]**
	2nd Time	☐ **Normal Code** ☐ **Malfunction Code [Code.]**

H40122

05258–08

PRE–CHECK



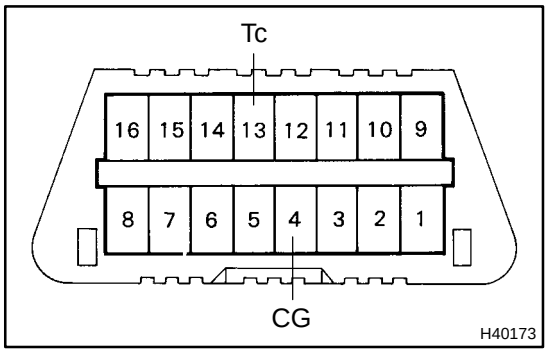
1. SRS WARNING LIGHT CHECK

(a) Turn the ignition switch to the ON position and check that the SRS warning light lights up.

(b) Check that the SRS warning light goes out after approx. 6 seconds.

HINT:

- When the ignition switch is at ON and the SRS warning light remains on or flashes, the airbag sensor assembly has detected a malfunction code.
- If, after approx. 6 second have elapsed, the SRS warning light sometimes lights up, a short in the SRS warning light circuit can be considered likely. Proceed to "SRS warning light circuit malfunction" on page 05–585 and 05–588.



2. DTC CHECK (using diagnosis check wire)

(a) Present troubles codes:

Output the DTC.

(1) Turn the ignition switch to the ON position and wait for approx. 60 seconds.

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

SST 09843–18040

NOTICE:

Pay due attention to the terminal connecting position to avoid a malfunction.

(b) Past troubles codes:

Output the DTC.

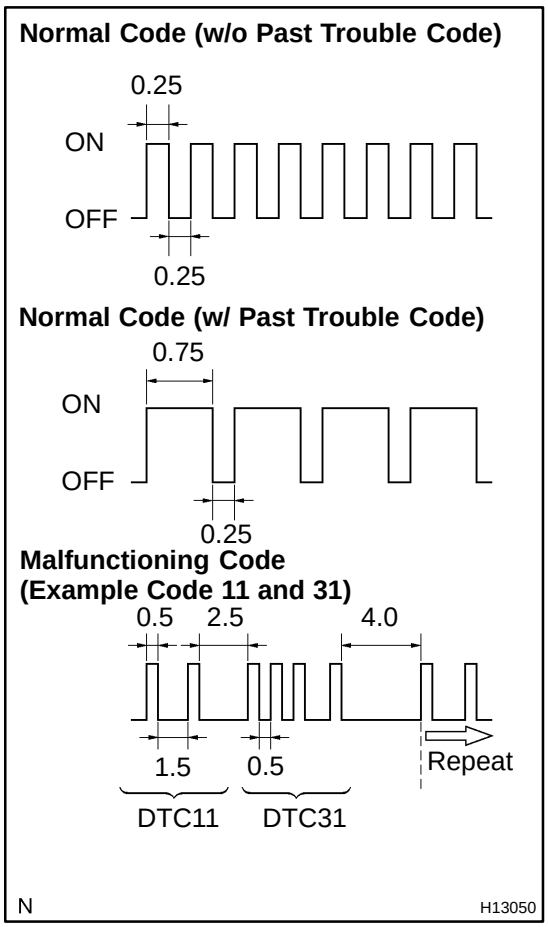
(1) Using service wire, connect terminals Tc and CG of the DLC3.

SST 09843–18040

(2) Turn the ignition switch to the ON position and wait for approx. 60 seconds.

NOTICE:

Pay due attention to the terminal connecting position to avoid a malfunction.



(c) Read the DTC.

Read the 2–digit DTC as indicated by the number of times the SRS warning light blinks. As an example, the blinking patterns, normal, 11 and 31 are shown in the illustration.

- Normal code indication (w/o past trouble code)
  The light will blink 2 times per second.
- Normal code indication (w/ past trouble code)
  When the past troubles code is stored in the airbag sensor assembly, the light blinks only ones a second.
- Malfunction code indication
  The first blinking output indicates the first digit of a 2–digit DTC. After a 1.5–second pause, the second blinking output will indicate the second digit.

If there are 2 or more codes, there will be a 2.5–second pause between each code. After all the codes have been output, there will be a 4.0–second pause and they will all be repeated.

HINT:

In the event of a number of trouble codes, indication will start from the smallest numbered code.

3. DTC CHECK (Using hand–held tester)

(a) Hook up the hand–held tester to the DLC3.

(b) Read the DTCs by following the prompts on the tester screen.

HINT:

Please refer to the hand–held tester operator's manual for further details.

4. DTC CLEARANCE (Not using service wire)

(a) When the ignition switch is turned off, the diagnostic trouble code is cleared.

HINT:

DTC might not be cleared by turning the ignition switch OFF. In this case, proceed to the next step.

5. DTC CLEARANCE (Using service wire)

(a) Using a service wire, connect terminals TC and CG of the DLC3.

(b) Disconnect terminal TC of DLC3 within 10 seconds after the DTC begins to be output, and check if the warning light lights up within 3 seconds.

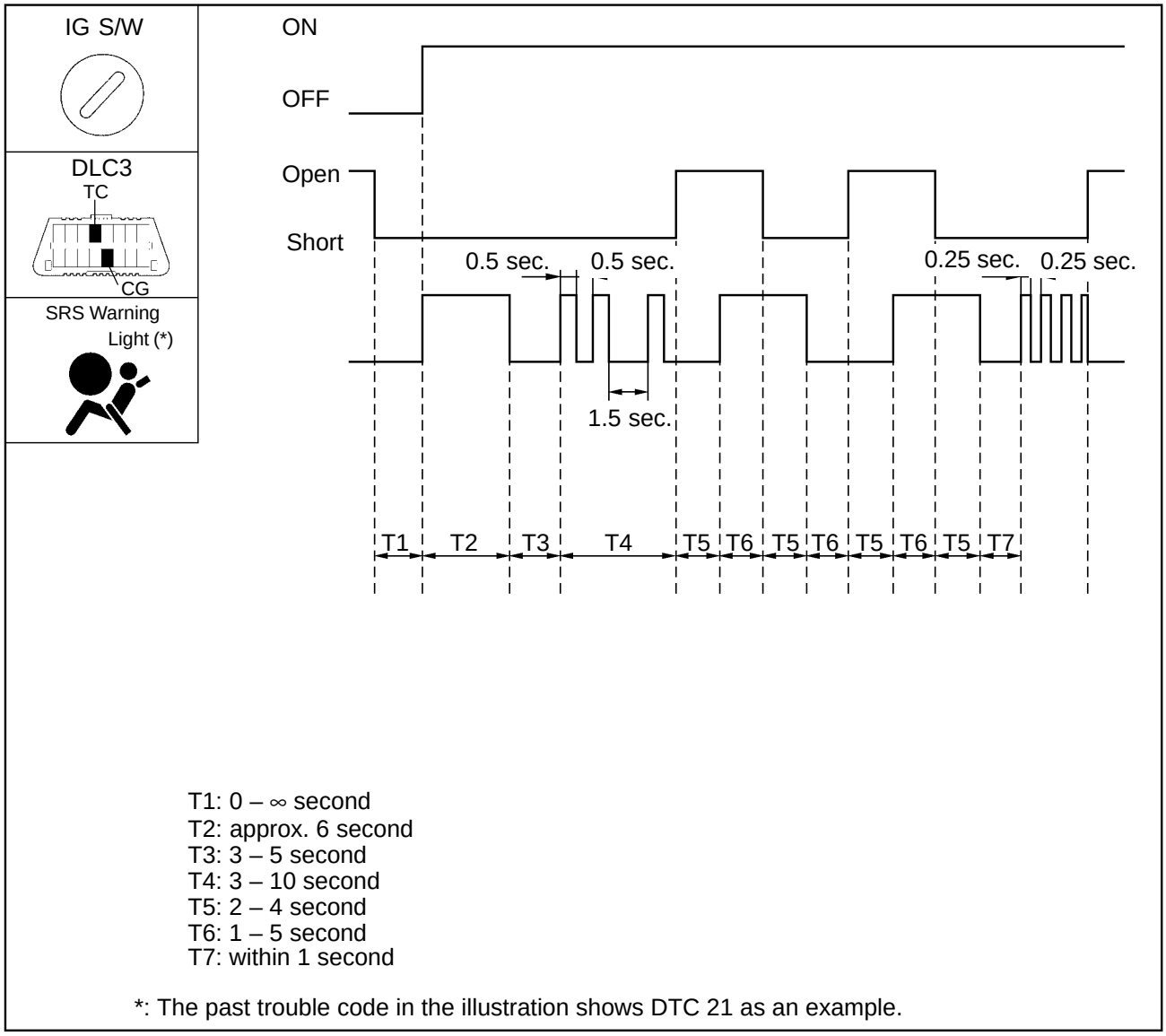
(c) Within 2.0 seconds to 4.0 seconds after the SRS warning light lights up, connect the terminals TC and CG of the DLC3.

(d) Light the SRS warning light goes off 2.0 to 4.0 seconds after connecting the terminals TC and CG of DLC3, then disconnect the terminal TC of the DLC3 2.0 to 4.0 seconds after the warning light goes off.

(e) Light the SRS warning light on again 3 seconds after disconnecting terminal TC of DLC3, then within 2.0 to 4.0 seconds after the lighting, connect terminals TC and CG of the DLC3.

(f) Check if the SRS warning light goes off 2.0 to 4.0 seconds after connecting terminals TC and CG of DLC3, and the correct code is output 1 second after the SRS warning goes off.

If DTCs are to cleared, repeat the above procedure until the codes are cleared.



T1: 0 – ∞ second
T2: approx. 6 second
T3: 3 – 5 second
T4: 3 – 10 second
T5: 2 – 4 second
T6: 1 – 5 second
T7: within 1 second

*: The past trouble code in the illustration shows DTC 21 as an example.

H41917

6. DTC CLEARANCE (Using hand–held tester)

(a) Hook up the hand–held tester to the DLC3.

(b) Clear the DTCs by following the prompts on the tester screen.

HINT:

Please refer to the hand–held tester operation's manual for further details.

7. RELEASE METHOD OF AIRBAG ACTIVATION PREVENTION MECHANISM

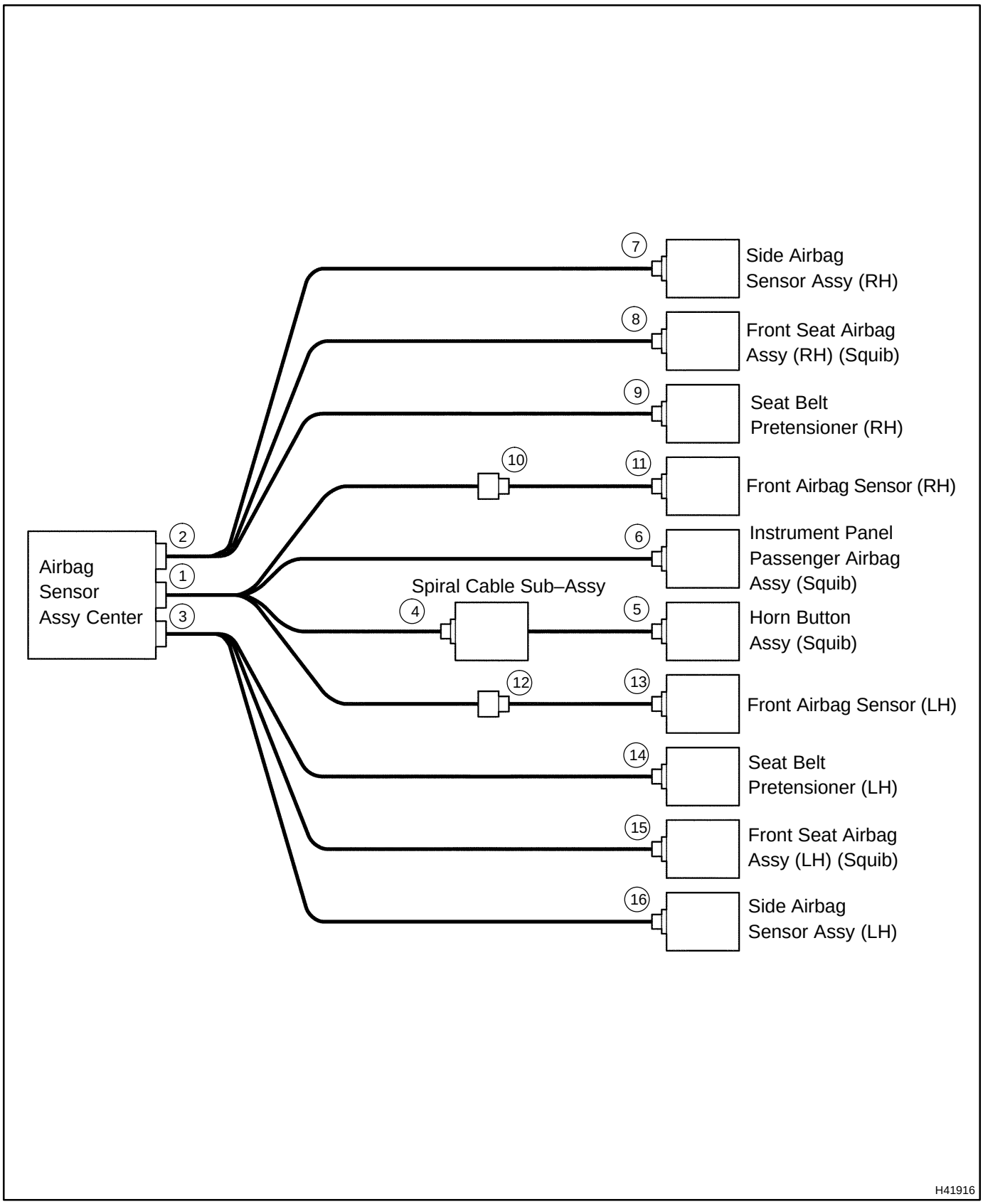
(a) An airbag activention prevention mechanism is built into the connector for the squib circuit of the SRS. When release of the airbag activation prevention mechanism is directed in the troubleshooting procedure, as shown in the illustration of the connectors on the next pages, insert paper which has the same thickness as the male terminal between the terminal and the short spring.

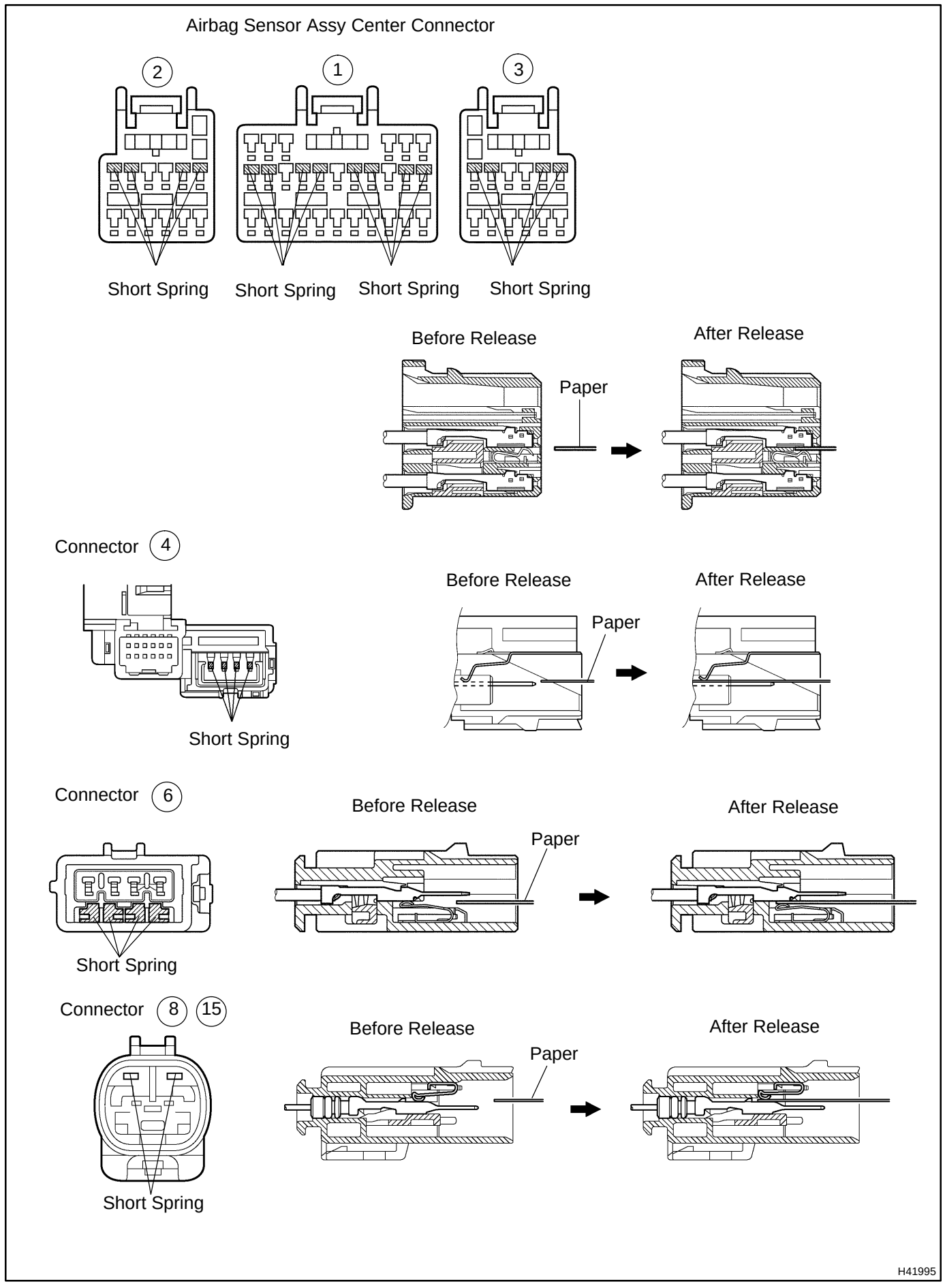
CAUTION:

Never release the airbag activation prevention mechanism on the squib connector.

NOTICE:

- **Do not release the airbag activation prevention mechanism unless specifically directed by the troubleshooting procedure.**
- **If the inserted paper is too thick the terminal and short spring may be damaged, so always use paper with the same thickness as the male terminal.**


Airbag
Sensor
Assy Center
2
1
3
Spiral Cable Sub–Assy
4
7
Side Airbag
Sensor Assy (RH)
8
Front Seat Airbag
Assy (RH) (Squib)
9
Seat Belt
Pretensioner (RH)
10
11
Front Airbag Sensor (RH)
6
Instrument Panel
Passenger Airbag
Assy (Squib)
5
Horn Button
Assy (Squib)
12
13
Front Airbag Sensor (LH)
14
Seat Belt
Pretensioner (LH)
15
Front Seat Airbag
Assy (LH) (Squib)
16
Side Airbag
Sensor Assy (LH)
H41916


Airbag Sensor Assy Center Connector
2
1
3
Short Spring
Short Spring
Short Spring
Short Spring
Before Release
After Release
Paper
Connector 4
Short Spring
Before Release
After Release
Paper
Connector 6
Short Spring
Before Release
After Release
Paper
Connector 8 15
Short Spring
Before Release
After Release
Paper
H41995

05259–14

DIAGNOSTIC TROUBLE CODE CHART

DTC No. (See page)	Detection Item	Trouble Area	SRS Warning Light
B0100/13 (05–437)	• SHORT IN D SQUIB CIRCUIT	• Horn button assy (squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire	ON
B0101/14 (05–441)	• OPEN IN D SQUIB CIRCUIT	• Horn button assy (squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire	ON
B0102/11 (05–445)	• SHORT IN D SQUIB CIRCUIT (TO GROUND)	• Horn button assy (squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire	ON
B0103/12 (05–449)	• SHORT IN D SQUIB CIRCUIT (TO B+)	• Horn button assy (squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire	ON
B0105/53 (05–453)	• SHORT IN P SQUIB CIRCUIT	• Instrument panel passenger airbag assy (squib) • Airbag sensor assy center • Instrument panel wire	ON
B0106/54 (05–457)	• OPEN IN P SQUIB CIRCUIT	• Instrument panel passenger airbag assy (squib) • Airbag sensor assy center • Instrument panel wire	ON
B0107/51 (05–460)	• SHORT IN P SQUIB CIRCUIT (TO GROUND)	• Instrument panel passenger airbag assy (squib) • Airbag sensor assy center • Instrument panel wire	ON
B0108/52 (05–463)	• SHORT IN P SQUIB CIRCUIT (TO B+)	• Instrument panel passenger airbag assy (squib) • Airbag sensor assy center • Instrument panel wire	ON
B0110/43 (05–466)	• SHORT IN SIDE SQUIB (RH) CIRCUIT	• Front seat airbag assy RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0111/44 (05–469)	• OPEN IN SIDE SQUIB (RH) CIRCUIT	• Front seat airbag assy RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0112/41 (05–472)	• SHORT IN SIDE SQUIB (RH) CIRCUIT (TO GROUND)	• Front seat airbag assy RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0113/42 (05–475)	• SHORT IN SIDE SQUIB (RH) CIRCUIT (TO B+)	• Front seat airbag assy RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0115/47 (05–478)	• SHORT IN SIDE SQUIB (LH) CIRCUIT	• Front seat airbag assy LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0116/48 (05–481)	• OPEN IN SIDE SQUIB (LH) CIRCUIT	• Front seat airbag assy LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0117/45 (05–484)	• SHORT IN SIDE SQUIB (LH) CIRCUIT (TO GROUND)	• Front seat airbag assy LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0118/46 (05–487)	• SHORT IN SIDE SQUIB (LH) CIRCUIT (TO B+)	• Front seat airbag assy LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0126/B0127/27 (05–490)	• SEAT BELT BUCKLE SWITCH (LH) MALFUNCTION	• Front seat inner belt assy (LH) • Airbag sensor assy center • Instrument panel wire No.3	ON

B0130/63 (05–494)	• SHORT IN P/T SQUIB (RH) CIRCUIT	• Seat belt pretensioner RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0131/64 (05–498)	• OPEN IN P/T SQUIB (RH) CIRCUIT	• Seat belt pretensioner RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0132/61 (05–501)	• SHORT IN P/T SQUIB (RH) CIRCUIT (TO GROUND)	• Seat belt pretensioner RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0133/62 (05–504)	• SHORT IN P/T SQUIB (RH) CIRCUIT (TO B+)	• Seat belt pretensioner RH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0135/73 (05–507)	• SHORT IN P/T SQUIB (LH) CIRCUIT	• Seat belt pretensioner LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0136/74 (05–511)	• OPEN IN P/T SQUIB (LH) CIRCUIT	• Seat belt pretensioner LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0137/71 (05–514)	• SHORT IN P/T SQUIB (LH) CIRCUIT (TO GROUND)	• Seat belt pretensioner LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B0138/72 (05–517)	• SHORT IN P/T SQUIB (LH) CIRCUIT (TO B+)	• Seat belt pretensioner LH (squib) • Airbag sensor assy center • Instrument panel wire No.3	Blink
B1100/31 (05–520)	• AIRBAG SENSOR ASSY CENTER MALFUNCTION	• Airbag sensor assy center	ON
B1135/24 (05–522)	• HALF CONNECTION DETECTION MALFUNCTION	• Airbag sensor assy center	ON
B1140/32 (05–524)	• SIDE AIRBAG SENSOR ASSY (RH) MALFUNCTION	• Airbag sensor assy center • Side Airbag sensor assy RH • Instrument panel wire No.3	Blink
B1141/33 (05–529)	• SIDE AIRBAG SENSOR ASSY (LH) MALFUNCTION	• Airbag sensor assy center • Side Airbag sensor assy LH • Instrument panel wire No.3	Blink
B1153/25 (05–534)	• SEAT POSITION AIRBAG SENSOR ASSY MALFUNCTION	• Seat position airbag sensor • Airbag sensor assy center • Instrument panel wire No.3 • Wire harness (Seat position airbag sensor – Front seat inner belt assy)	ON
B1156/B1157 /15 (05–542)	• FRONT AIRBAG SENSOR (RH) MALFUNCTION	• Airbag front RH sensor • Airbag sensor assy center • Engine room main Instrument panel wire No.3 • Instrument panel wire	ON
B1158/B1159 /16 (05–548)	• FRONT AIRBAG SENSOR (LH) MALFUNCTION	• Airbag sensor front LH • Airbag sensor assy center • Engine room main Instrument panel wire No.3 • Instrument panel wire	ON
B1180/17 (05–554)	• SHORT IN D SQUIB (2ND STEP) CIRCUIT	• Horn button assy (D squib (2nd step)) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire No.3	ON
B1181/18 (05–558)	• OPEN IN D SQUIB (2ND STEP) CIRCUIT	• Horn button assy (D squib (2nd step)) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire No.3	ON
B1182/19 (05–562)	• SHORT IN D SQUIB (2ND STEP) CIRCUIT (TO GROUND)	• Horn button assy (D squib (2nd step)) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire No.3	ON

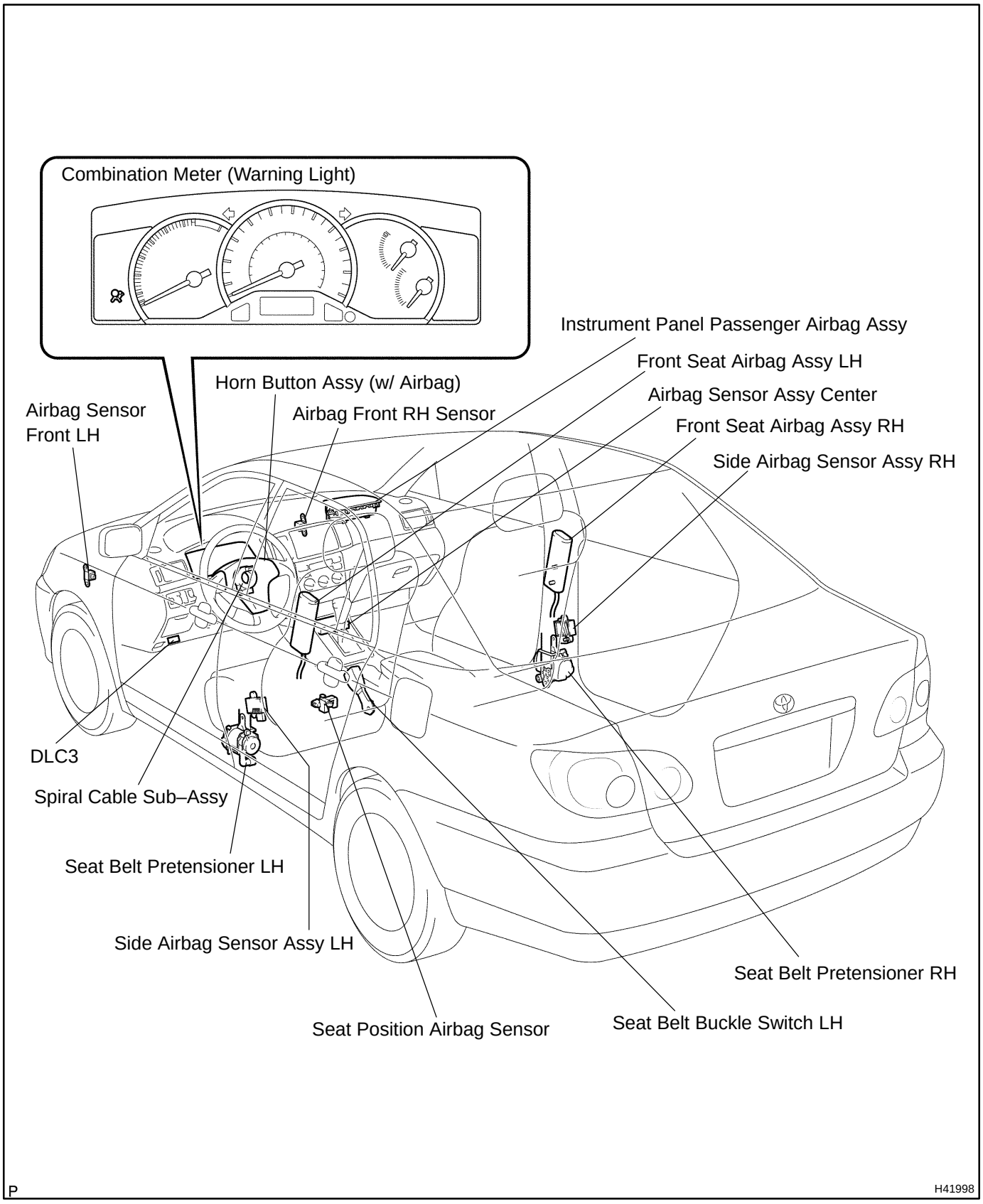
B1183/22 (05–566)	• SHORT IN D SQUIB (2ND STEP) CIRCUIT (TO B+)	• Horn button assy (D squib (2nd step)) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire No.3	ON
B1185/57 (05–570)	• SHORT IN P SQUIB (2ND STEP) CIRCUIT	• Instrument panel passenger airbag assy (P squib (2nd step)) • Airbag sensor assy center • Instrument panel wire	ON
B1186/58 (05–573)	• OPEN IN P SQUIB (2ND STEP) CIRCUIT	• Instrument panel passenger airbag assy (P squib (2nd step)) • Airbag sensor assy center • Instrument panel wire	ON
B1187/55 (05–576)	• SHORT IN P SQUIB (2ND STEP) CIRCUIT (TO GROUND)	• Instrument panel passenger airbag assy (P squib (2nd step)) • Airbag sensor assy center • Instrument panel wire	ON
B1188/56 (05–579)	• SHORT IN P SQUIB (2ND STEP) CIRCUIT (TO B+)	• Instrument panel passenger airbag assy (P squib (2nd step)) • Airbag sensor assy center • Instrument panel wire	ON
Normal (05–582)	• SYSTEM NORMAL	–	OFF
	• VOLTAGE SOURCE DROP	• Battery • Airbag sensor assy center	ON

HINT:

- When the SRS warning light remains lit up and the DTC is the normal code, this means a voltage source drops.
  This malfunction is not stored in memory by the Airbag sensor assy center and if the power source voltage returns to normal, the SRS warning light will automatically go out.
- When 2 or more codes are indicated, the codes will be displayed in numeral order starting from the lowest numbered code.
- If a code not listed on the chart is displayed, the Airbag sensor assy center is faulty.
- In the case of any malfunction concerning any open circuit, ground short, or B+ short due to any squib, another malfunction code may not be detected. In this case, correct the malfunction currently being output, and then perform malfunction diagnosis again. Another malfunction code may then be detected.

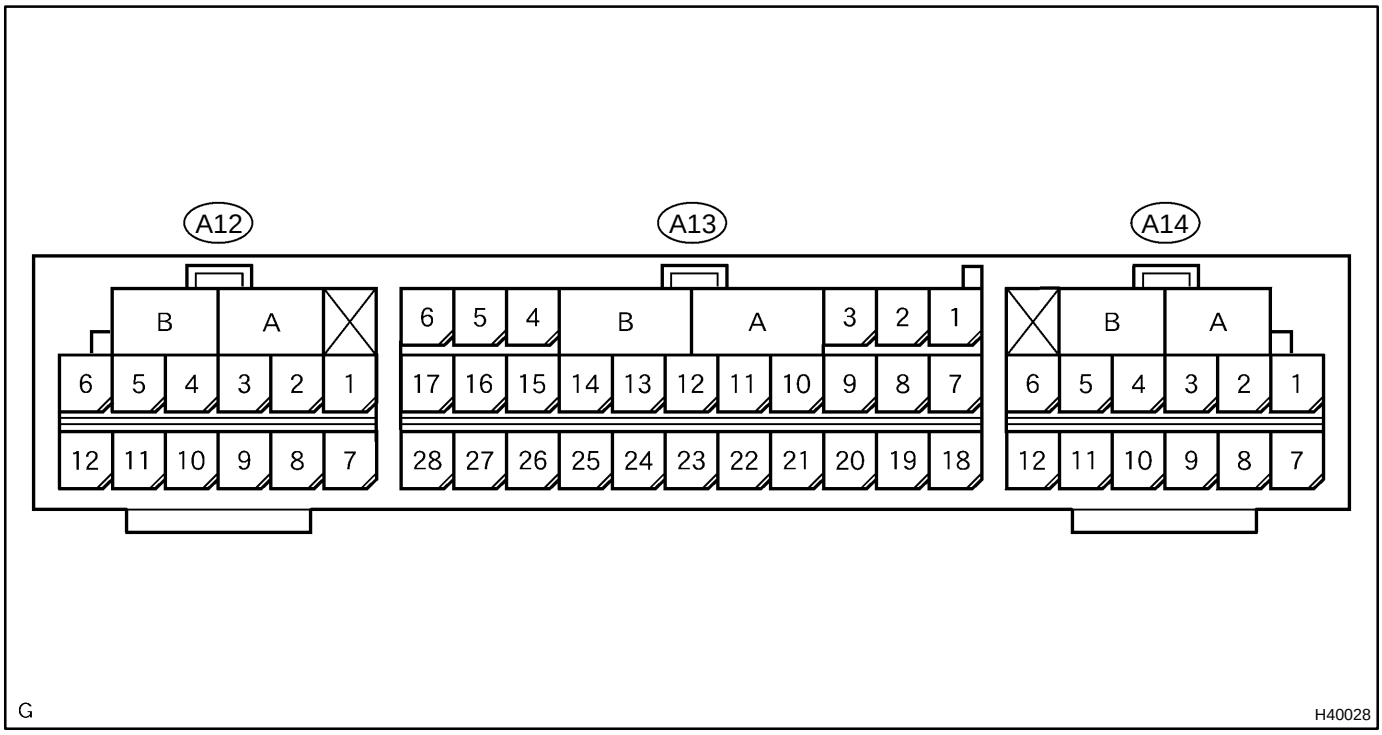
0525A–13

LOCATION



05DQA–01

TERMINALS OF ECU



No.	Symbol	Terminal Name
A	–	Electrical Connector Check Mechanism
B	–	Electrical Connector Check Mechanism
A13–3	LA	SRS Warning Light
A13–5	IG2	Power Source (IG2 Fuse)
A13–7	P2–	Squib (Passenger (2 step))
A13–8	P2+	Squib (Passenger (2 step))
A13–9	+SR	Front Airbag Sensor (RH)
A13–10	P+	Squib (Passenger)
A13–11	P–	Squib (Passenger)
A13–12	SIL	Diagnosis
A13–13	D–	Squib (Driver)
A13–14	D+	Squib (Driver)
A13–15	+SL	Airbag Front Sensor (LH)
A13–16	D2+	Squib (Driver (2 step))
A13–17	D2–	Squib (Driver (2 step))
A13–19	Tc	Diagnosis
A13–20	–SR	Airbag Front Sensor (RH)
A13–23	GSW2	ECM
A13–26	–SL	AIrbag Front Sensor (LH)
A13–27	E1	Ground
A13–28	E2	Ground
A12–1	PL–	Squib (Seat Belt Pretensioner, LH)
A12–2	PL+	Squib (Seat Belt Pretensioner, LH)
A12–3	LSP+	Seat Position Sensor
A12–4	LSP–	Seat Position Sensor
A12–5	SFL–	Squib (Side, LH)
A12–6	SFL+	Squib (Side, LH)
A12–7	VUPL	Side Airbag Sensor Assy (LH)
A12–9	SSL–	Side Airbag Sensor Assy (LH)

No.	Symbol	Terminal Name
A12–10	FSL	Side Airbag Sensor Assy (LH)
A12–11	LBE+	Seat Belt Buckle Switch (LH)
A12–12	ESL	Side Airbag Sensor Assy (LH)
A14–1	SFR+	Squib (Side, RH)
A14–2	SFR–	Squib (Side, RH)
A14–5	PR+	Squib (Seat Belt Pretensioner, RH)
A14–6	PR–	Squib (Seat Belt Pretensioner, RH)
A14–7	ESR	Side Airbag Sensor Assy (RH)
A14–9	FSR	Side Airbag Sensor Assy (RH)
A14–10	SSR–	Side Airbag Sensor Assy (RH)
A14–12	VUPR	Side Airbag Sensor Assy (RH)

0525C–13

PROBLEM SYMPTOMS TABLE

HINT:

Proceed with troubleshooting of each circuit in the table below.

Symptom	Suspect Area	See page
• When the ignition switch is in the ON position, the SRS warning light sometimes comes on after approximately 6 seconds.	• SRS warning light circuit malfunction (Always lights up, when DTC is not output).	05–585
• SRS warning light always comes on even when DTC is not output.		
• With the ignition switch is in the ON position, the SRS warning light does not come on.	• SRS warning light circuit malfunction (Does not light up, when ignition switch is turned to ON).	05–588
• Although a SRS warning light operates normally, DTC or a normal system code is not displayed.	• TC terminal circuit	05–590
• Although the terminals TC and CG are not connected, DTC or a normal system code are displayed.		

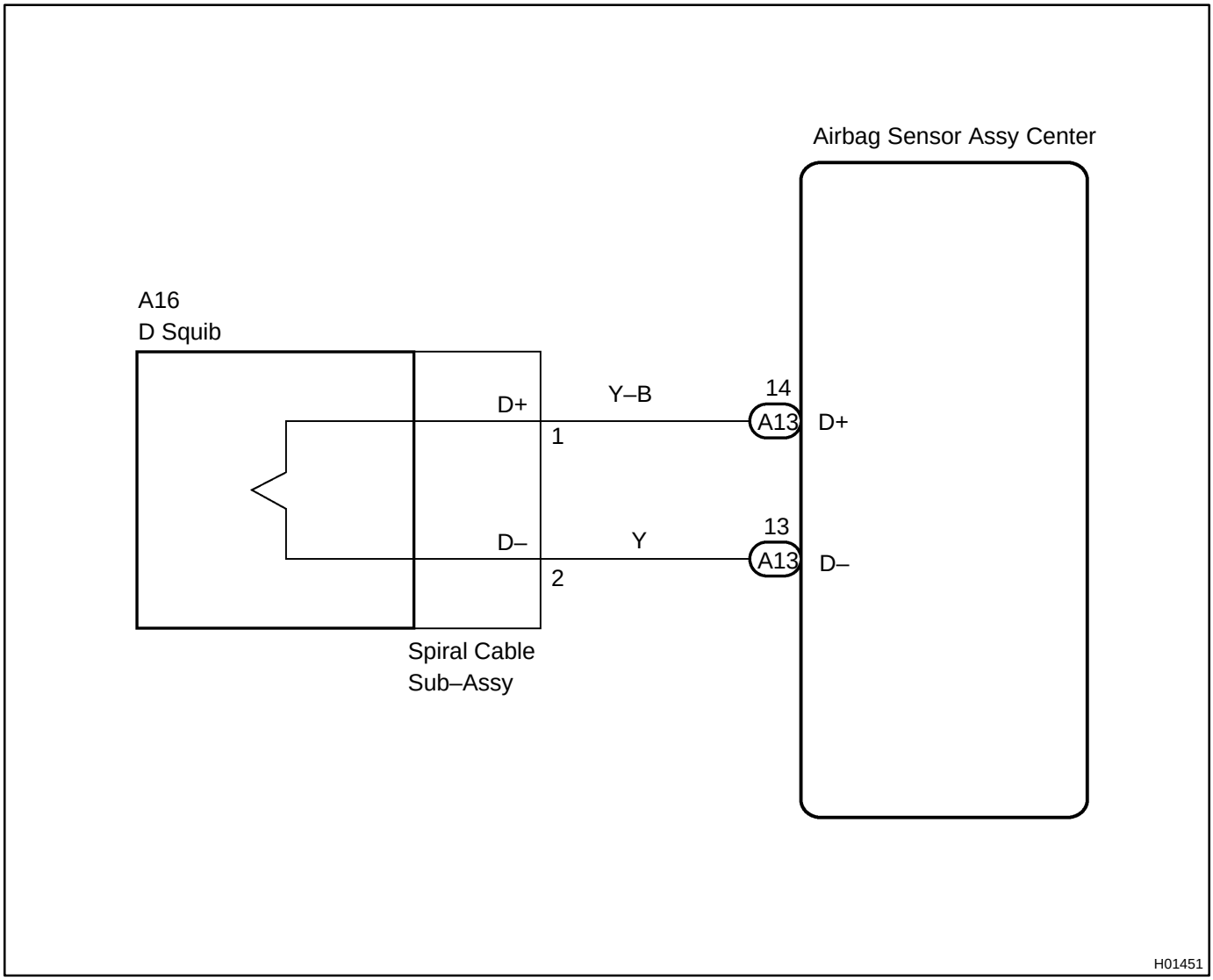
DTC B0100/13 SHORT IN D SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0100/13 is recorded when a short is detected in the D squib circuit.

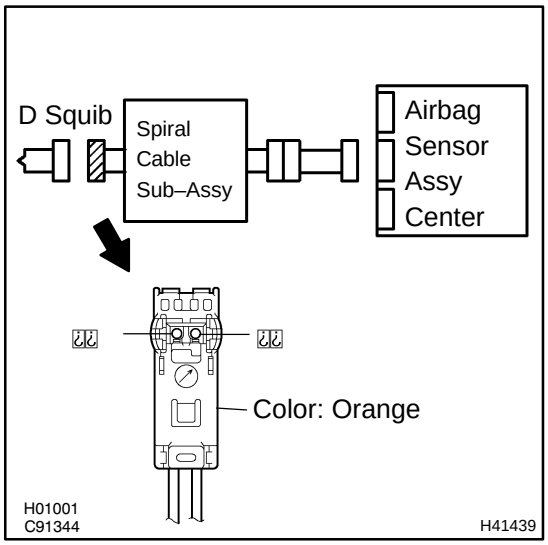
DTC No.	DTC Detecting Condition	Trouble Area
B0100/13	• Short circuit between D+ wire harness and D– wire harness of squib • D squib malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



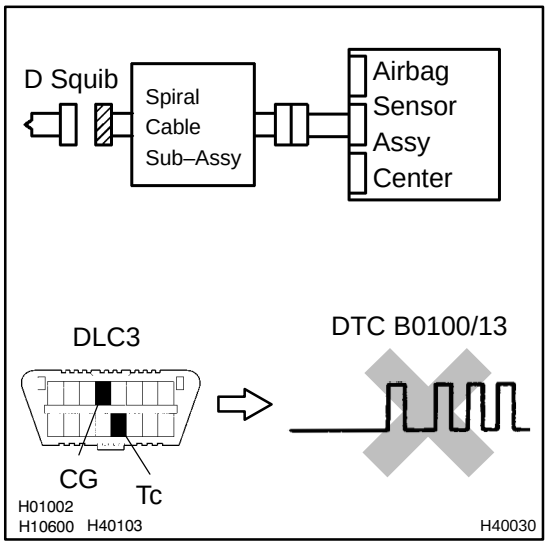
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the horn button assy.
(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the spiral cable sub–assy (See page 05–424).
(d) For the connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D+ and D–.
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 4**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B0100/13 is not output.

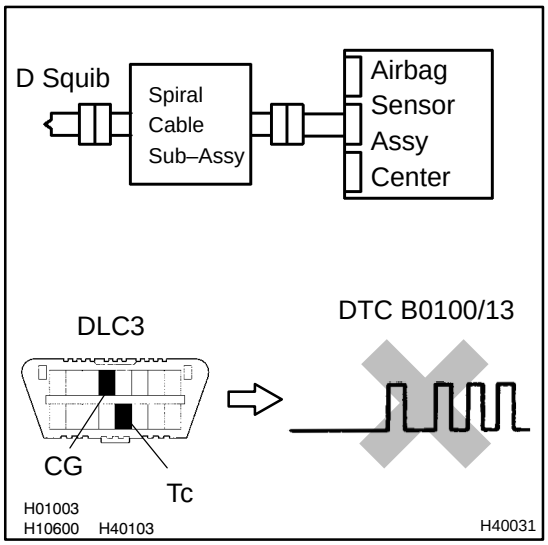
HINT:
Codes other than code B0100/13 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B0100/13 is not output.

HINT:

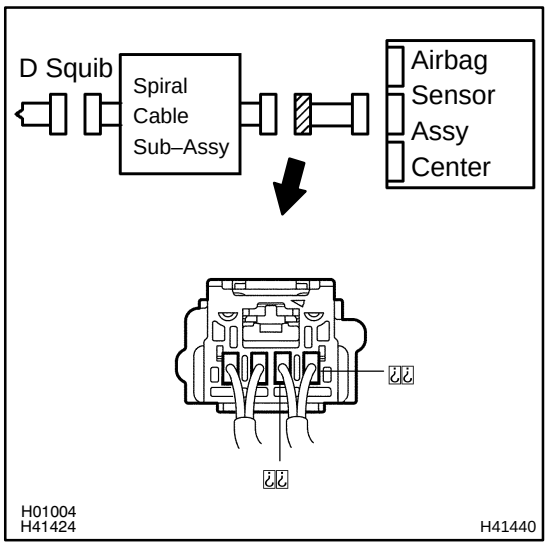
Codes other than code B0100/13 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

USE SIMULATION METHOD TO CHECK

4	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)

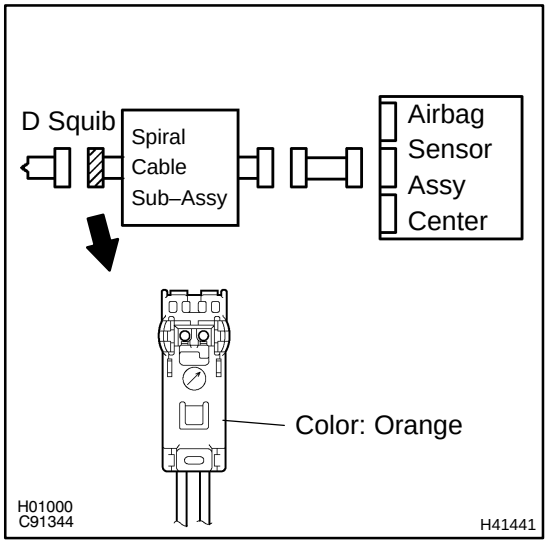


(a) Disconnect the connector of the instrument panel wire.
(b) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the spiral cable sub–assy (See page 05–424).
(c) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the resistance between D+ and D–.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

5	CHECK SPIRAL CABLE SUB–ASSY



(a) Release the airbag activation prevention mechanism of the spiral cable sub–assy connector on the airbag sensor assy center side (See page 05–424).
(b) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D+ and D–.
OK:
Resistance: 1 MΩ or Higher

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0101/14 OPEN IN D SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0101/14 is recorded when an open is detected in the D squib circuit.

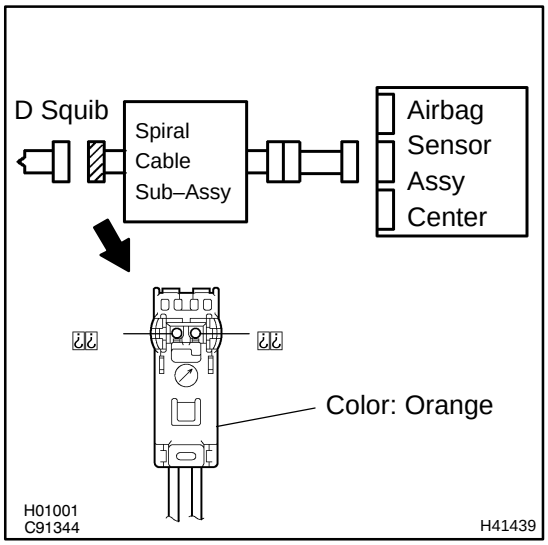
DTC No.	DTC Detecting Condition	Trouble Area
B0101/14	• Open circuit in D+ wire harness or D– wire harness of squib • D squib malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–437.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



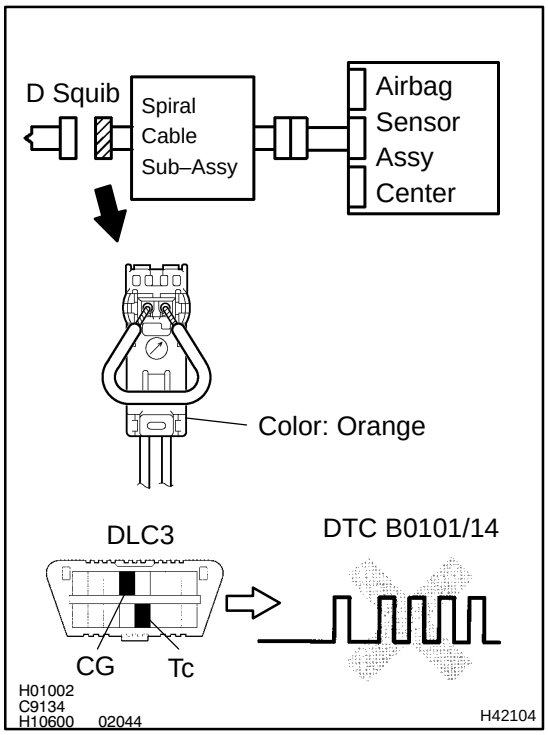
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the horn button assy and the airbag sensor assy center.
(c) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D+ and D–.
OK:
Resistance: Below 1 Ω

NG → **Go to step 4**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect D+ and D– of the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0101/14 is not output.

HINT:

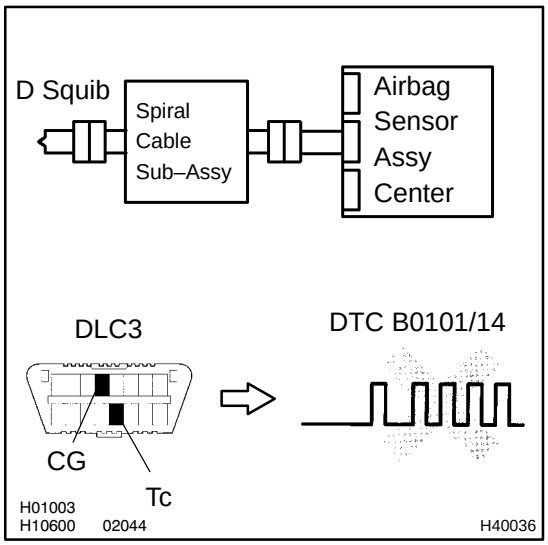
Codes other than code B0101/14 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the horn button assy connector.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 20 seconds.
(f) Clear the DTC stored in memory (See page 05–424).
(g) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(h) Turn the ignition switch to ON, and wait at least for 20 seconds.
(i) Check the DTC (See page 05–424).
OK:
DTC B0101/14 is not output.

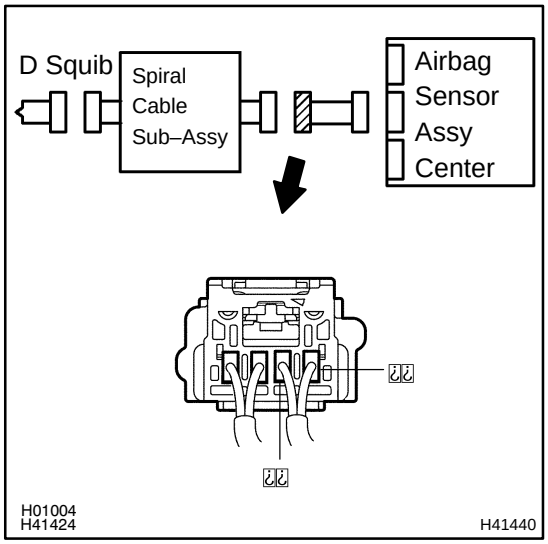
HINT:
Codes other than code B0101/14 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)

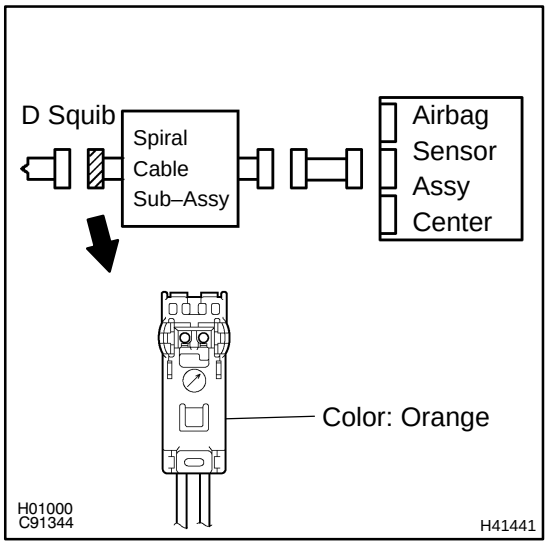


(a) Disconnect the connector of the instrument panel wire.
(b) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the resistance between D+ and D–.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

5	CHECK SPIRAL CABLE SUB–ASSY



(a) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D+ and D–.

OK:

Resistance: Below 1 Ω

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0102/11 SHORT IN D SQUIB CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0102/11 is recorded when a ground short is detected in the D squib circuit.

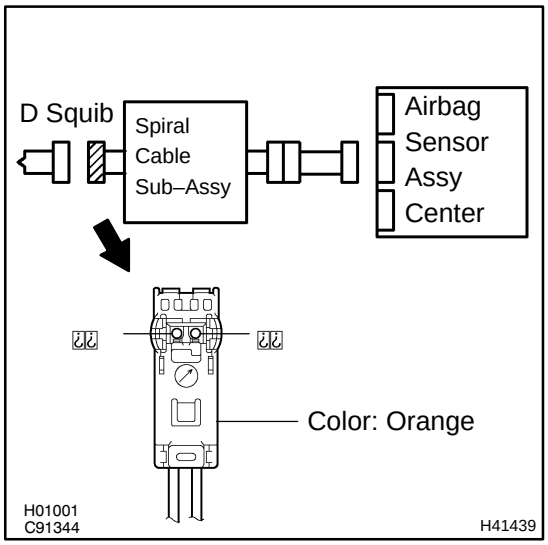
DTC No.	DTC Detecting Condition	Trouble Area
B0102/11	• Short circuit in D squib wire harness (to ground) • D squib malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–437.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



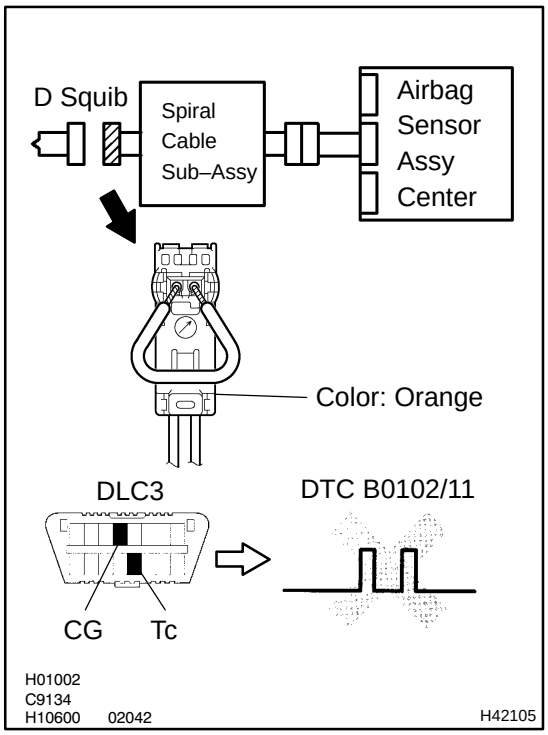
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the horn button assy.
(c) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 5**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect D+ and D– of the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait t least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0102/11 is not output.

HINT:

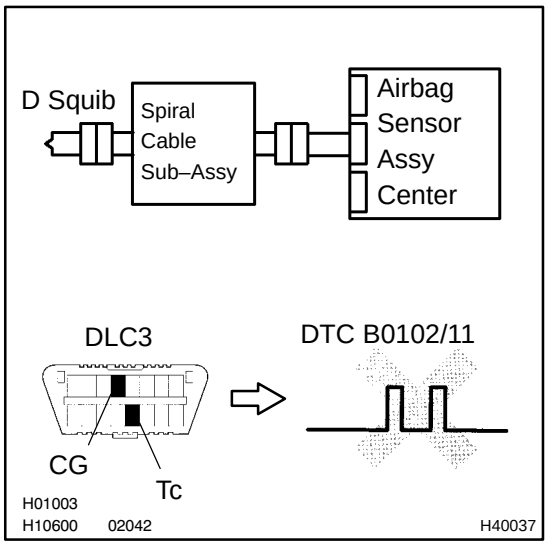
Codes other than code B0102/11 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B0102/11 is not output.

HINT:

Codes other than code B0102/11 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

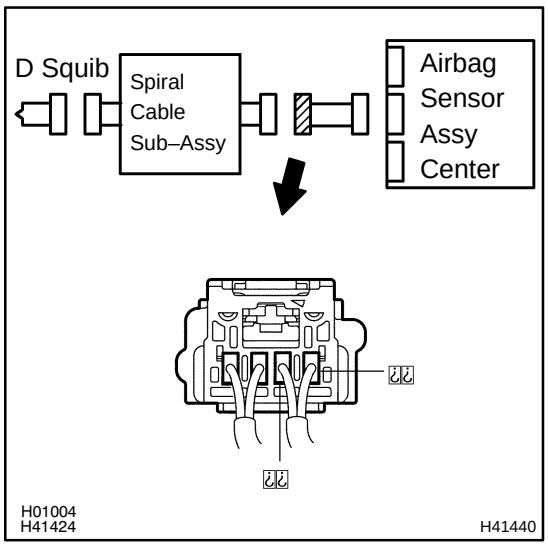
4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

5	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)

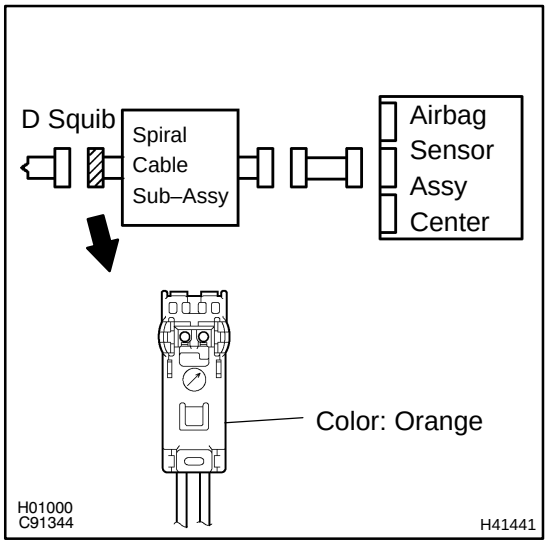


(a) Disconnect the connector of the instrument panel wire.
(b) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the resistance between D+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

6	CHECK SPIRAL CABLE SUB–ASSY



(a) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC B0103/12 SHORT IN D SQUIB CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0103/12 is recorded when a B+ short is detected in the D squib circuit.

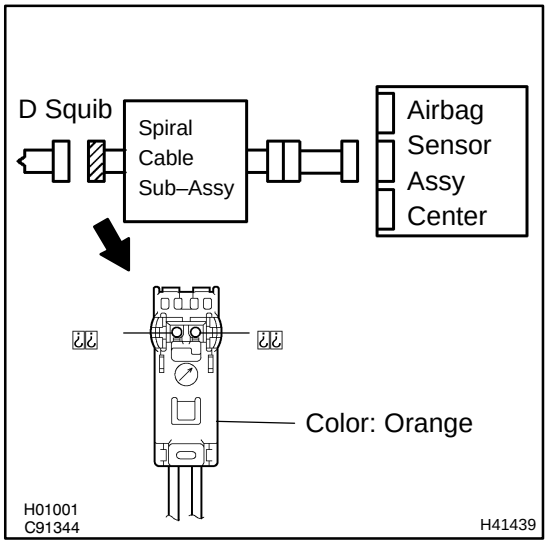
DTC No.	DTC Detecting Condition	Trouble Area
B0103/12	• Short circuit in D squib wire harness (to B+) • D squib malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–437.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



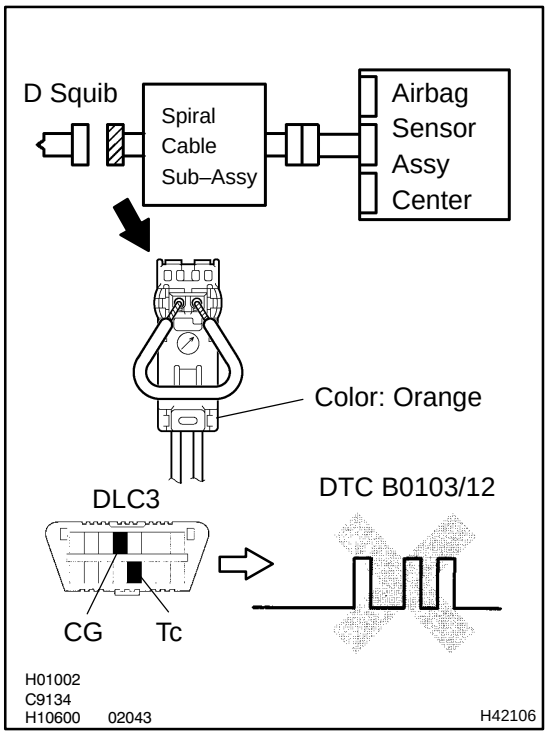
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the horn button assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the voltage between D+ and body ground.
OK:
Voltage: Below 1 V

NG → **Go to step 5**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect D+ and D– of the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B0103/12 is not output.

HINT:

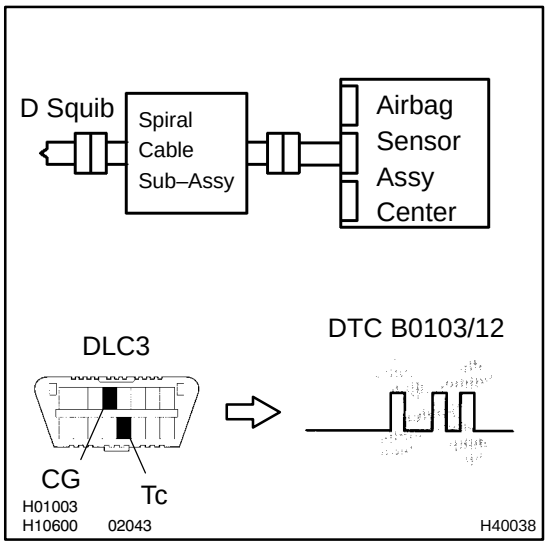
Codes other than code B0103/12 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B0103/12 is not output.

HINT:

Codes other than code B0103/12 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

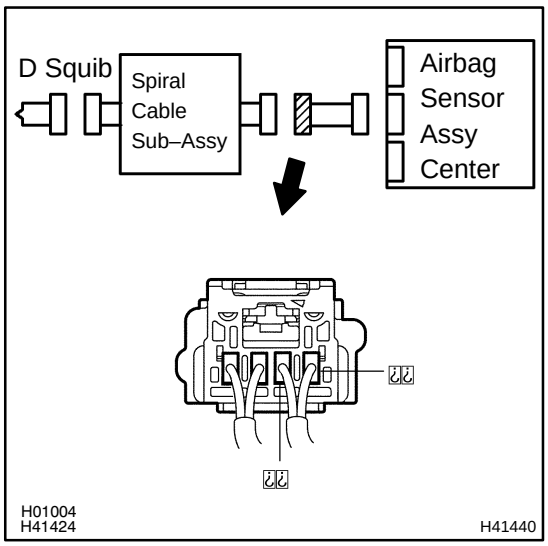
4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

5	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)

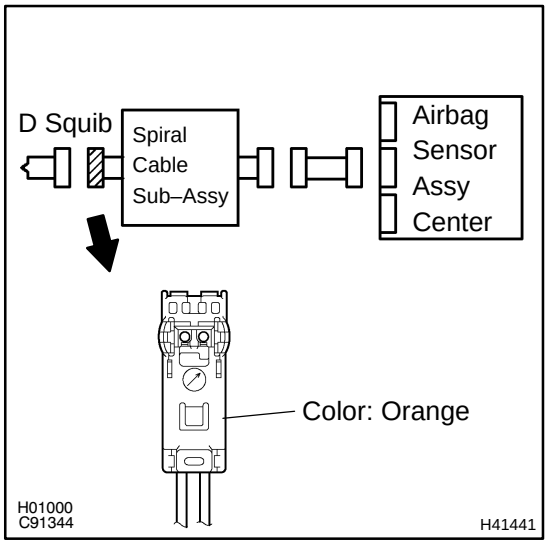


(a) Turn the ignition switch to LOCK.
(b) Disconnect the connectors of the instrument panel wire.
(c) Turn the ignition switch to ON.
(d) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the voltage between D+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

6	CHECK SPIRAL CABLE SUB–ASSY



(a) For the orange connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the voltage between D+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

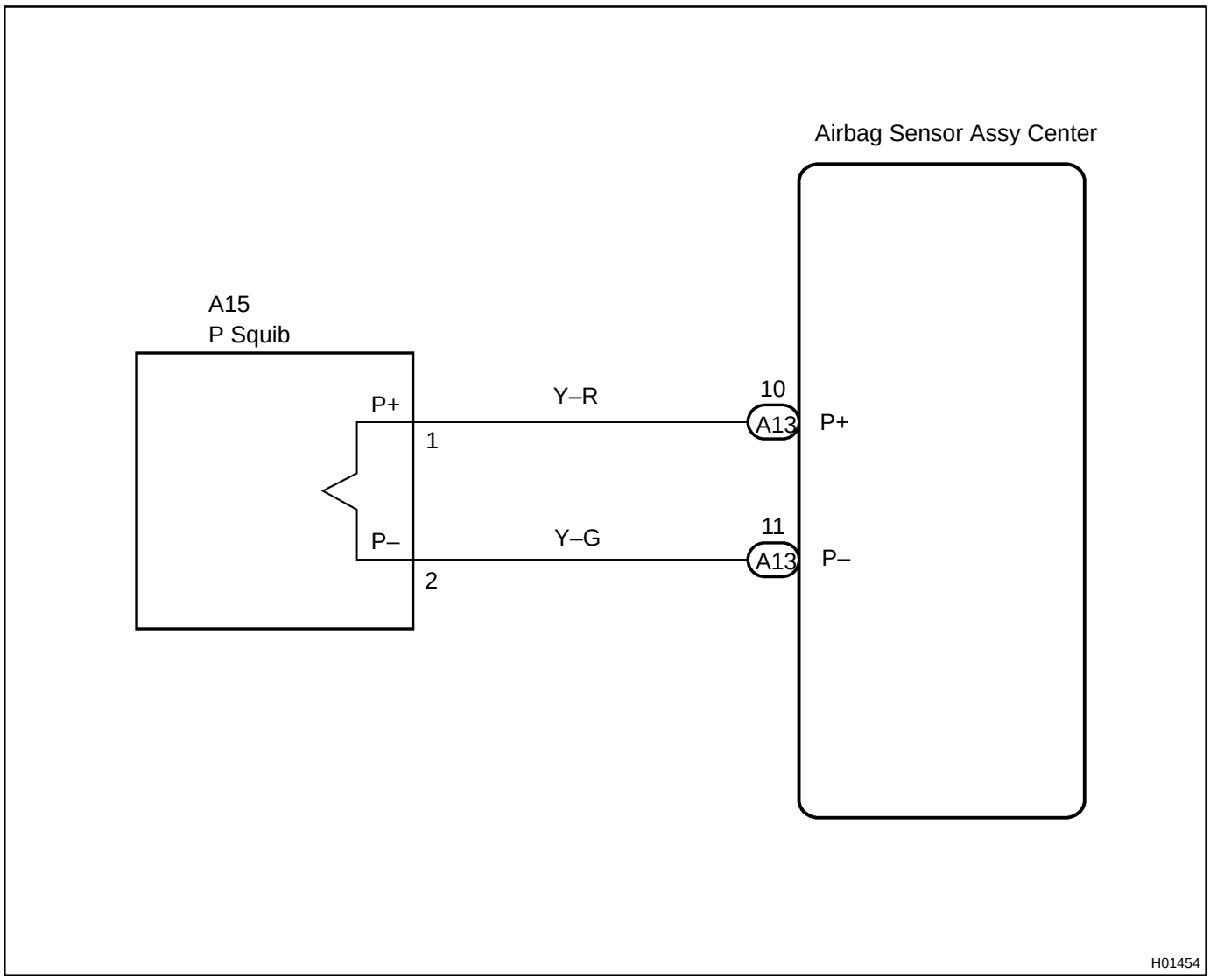
DTC B0105/53 SHORT IN P SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0105/53 is recorded when a short is detected in the P squib circuit.

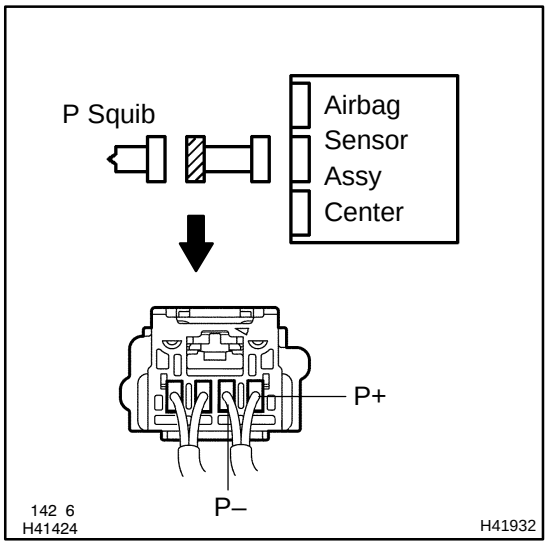
DTC No.	DTC Detecting Condition	Trouble Area
B0105/53	• Short circuit between P+ wire harness and P– wire harness of squib. • P squib malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



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

(b) Disconnect the connectors between the airbag sensor assy center and the instrument panel passenger airbag assy.

HINT:

Make sure that the connector is not damaged (The lock button is not disengaged, or the claw of the lock is not deformed or damaged). If the damage is found, replace the wire harness.

(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the instrument panel passenger airbag assy (See page 05–424).

(d) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the resistance between P+ and P–.

OK:

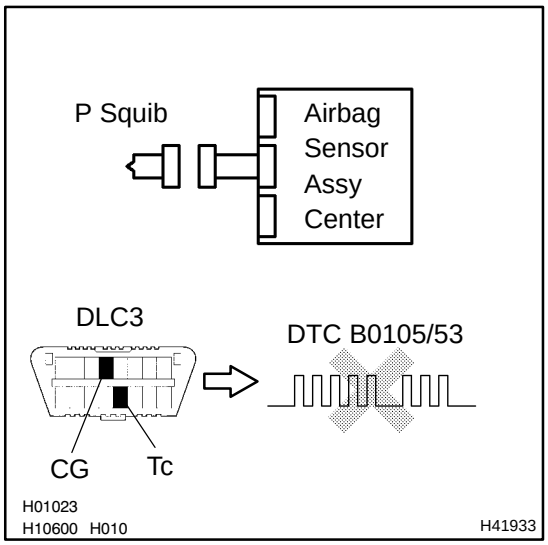
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B0105/53 is not output.

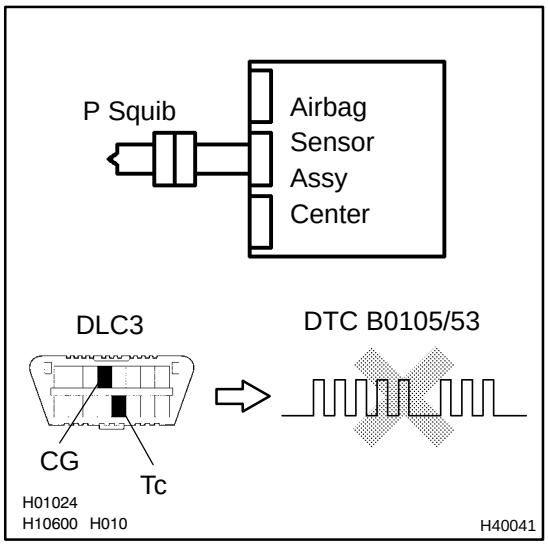
HINT:
Codes other than code B0105/53 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B0105/53 is not output.

HINT:

Codes other than code B0105/53 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0106/54 OPEN IN P SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0106/54 is recorded when an open is detected in the P squib circuit.

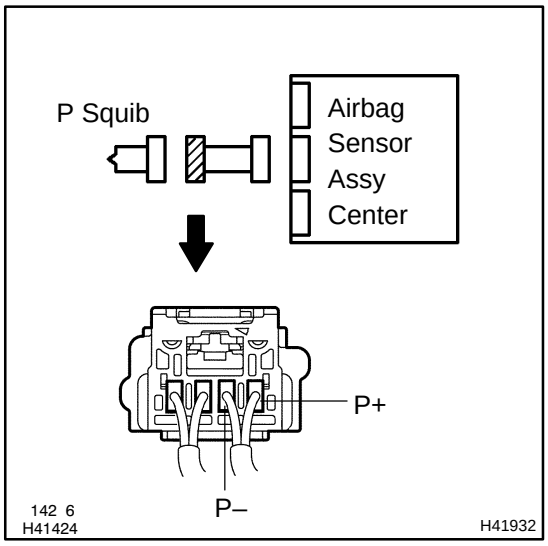
DTC No.	DTC Detecting Condition	Trouble Area
B0106/54	• Open circuit in P+ wire harness or P– wire harness of squib • P squib malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–453.

INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



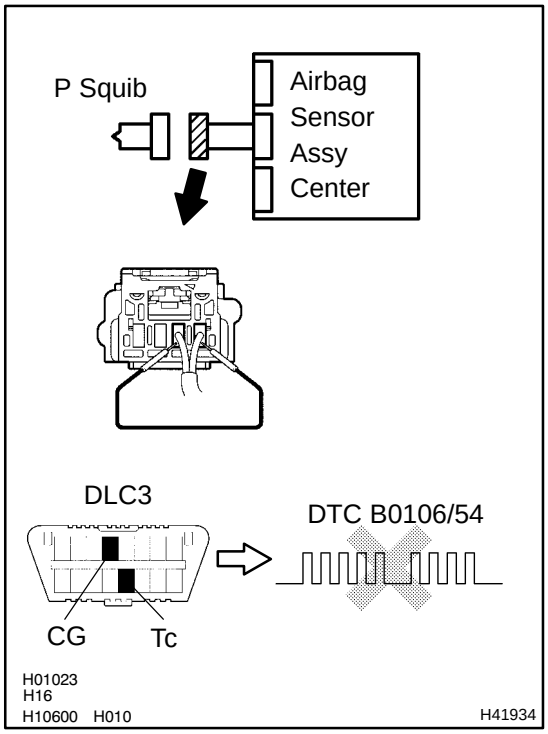
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the resistance between P+ and P–.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect P+ and P– of the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).
OK:
DTC B0106/54 is not output.

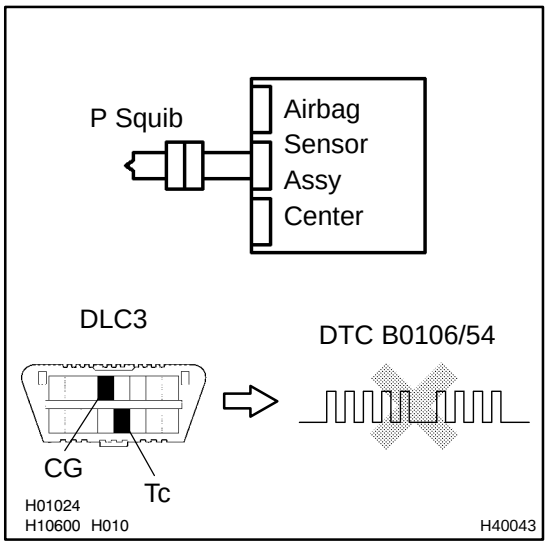
HINT:
Codes other than code B0106/54 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B0106/54 is not output.

HINT:

Codes other than code B0106/54 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0107/51 SHORT IN P SQUIB CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0107/51 is recorded when ground short is detected in the P squib circuit.

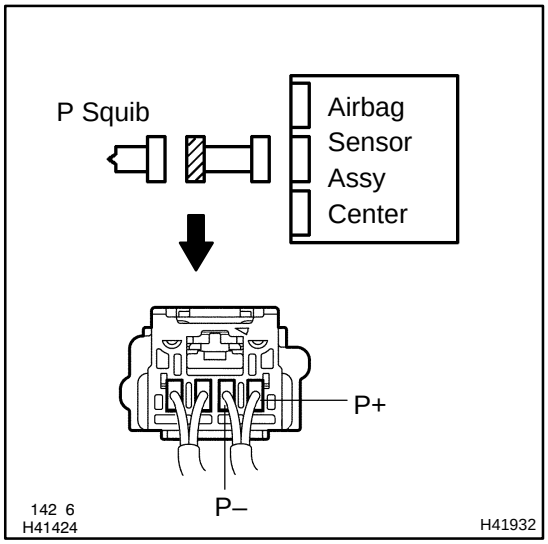
DTC No.	DTC Detecting Condition	Trouble Area
B0107/51	• Short circuit in P squib wire harness (to ground) • P squib malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–453.

INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



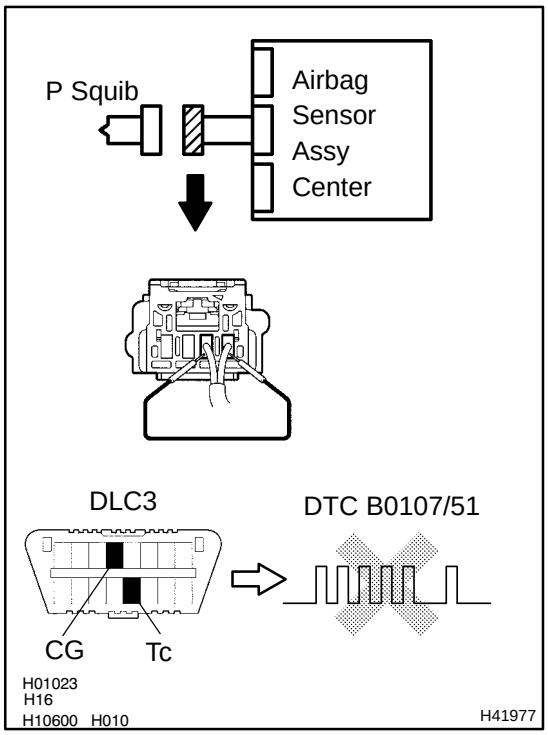
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the resistance between P+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect P+ and P– of the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0107/51 is not output.

HINT:

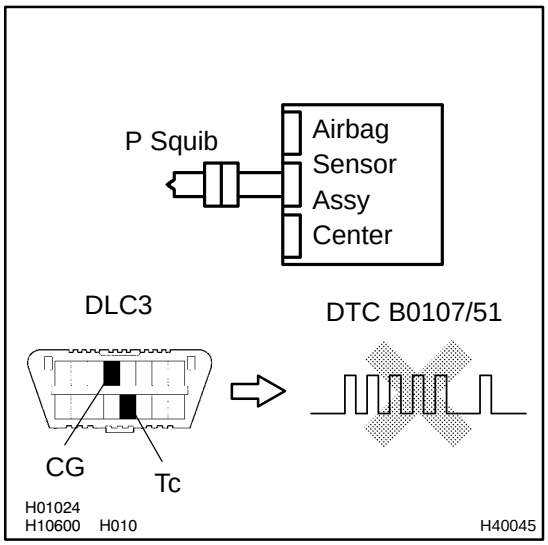
Codes other than code B0107/51 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B0107/51 is not output.

HINT:

Codes other than code B0107/51 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC B0108/52 SHORT IN P SQUIB CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0108/52 is recorded when a B+ short is detected in the P squib circuit.

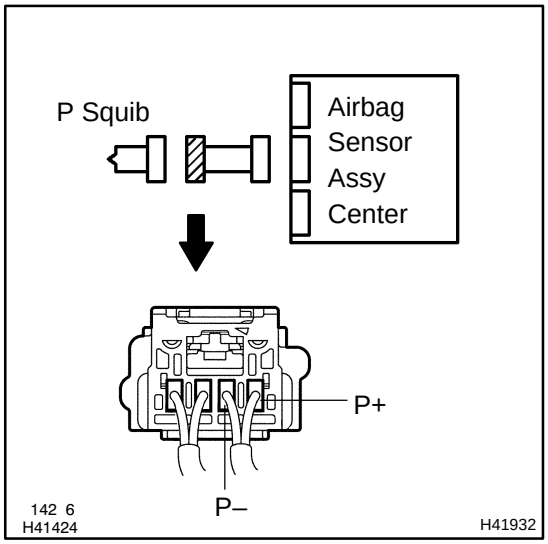
DTC No.	DTC Detecting Condition	Trouble Area
B0108/52	• Short circuit in P squib wire harness (to B+) • P squib malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–453.

INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



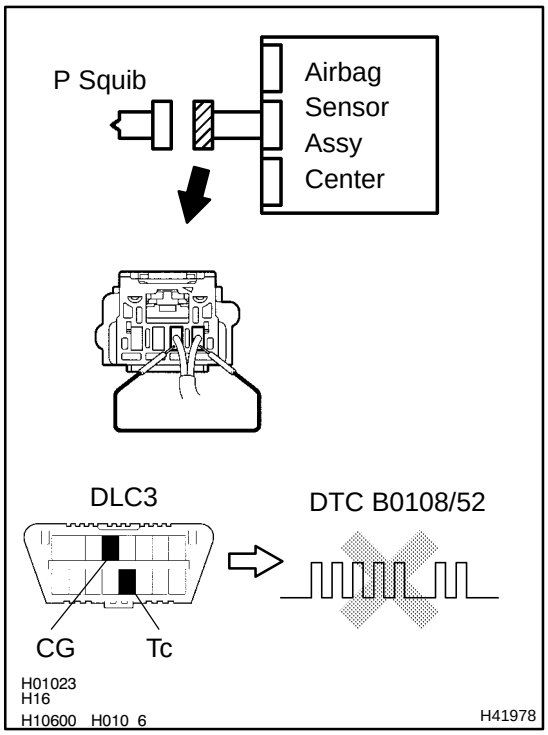
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the voltage between P+ and body ground.
OK:
Voltage: Below 1 V

NG	REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect P+ and P– of the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B0108/52 is not output.

HINT:

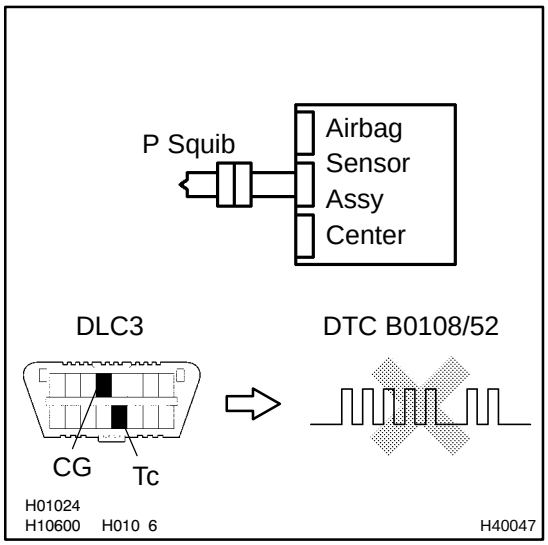
Codes other than code B0108/52 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B0108/52 is not output.

HINT:

Codes other than code B0108/52 may be output at this time, but they are not relevant to this check.

NG	REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY

OK

4	USE SIMULATION METHOD TO CHECK

NG	Go to step 1

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

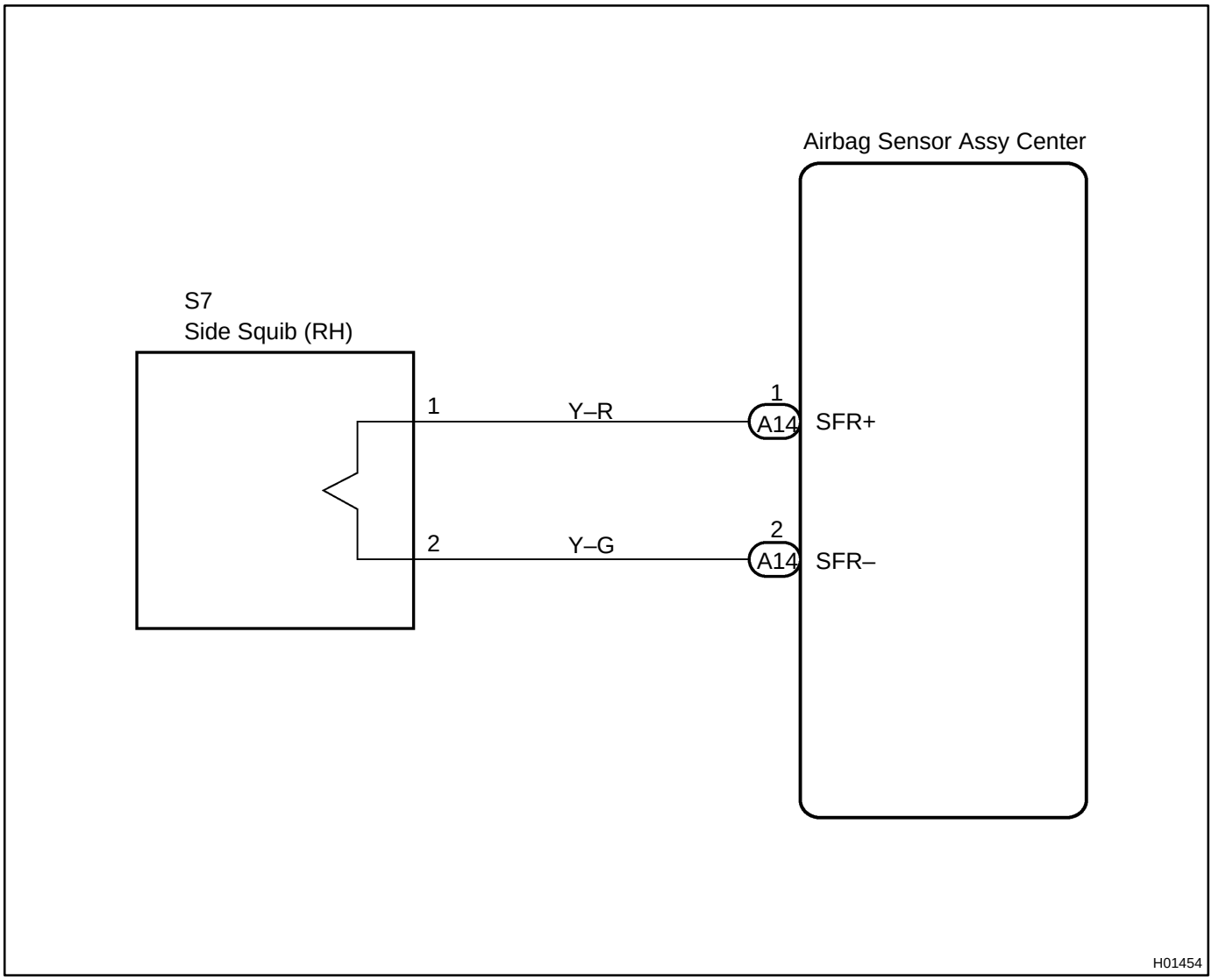
DTC B0110/43 SHORT IN SIDE SQUIB (RH) CIRCUIT

CIRCUIT DESCRIPTION

The side squib (RH) circuit consists of the airbag sensor assy center and front seat airbag assy (RH). It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0110/43 is recorded when a short is detected in the side squib (RH) circuit.

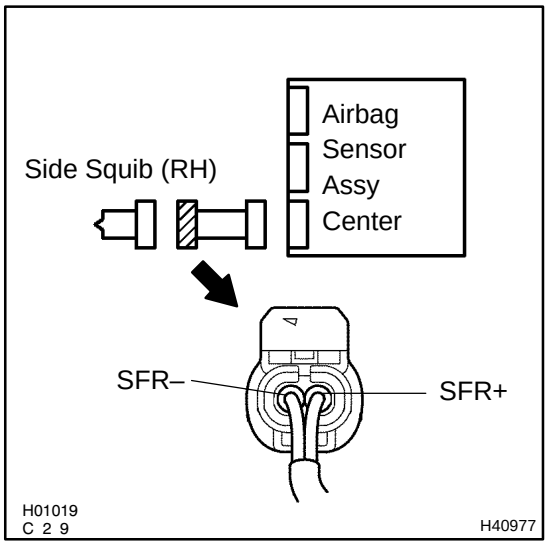
DTC No.	DTC Detecting Condition	Trouble Area
B0110/43	• Short circuit between SFR+ wire harness and SFR– wire harness of squib • Side squib (RH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)



(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the front seat airbag assy (RH) and the airbag sensor assy center.
(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the front seat airbag assy (RH) (See page 05–424).
(d) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH), measure the resistance between SFR+ and SFR–.

OK:

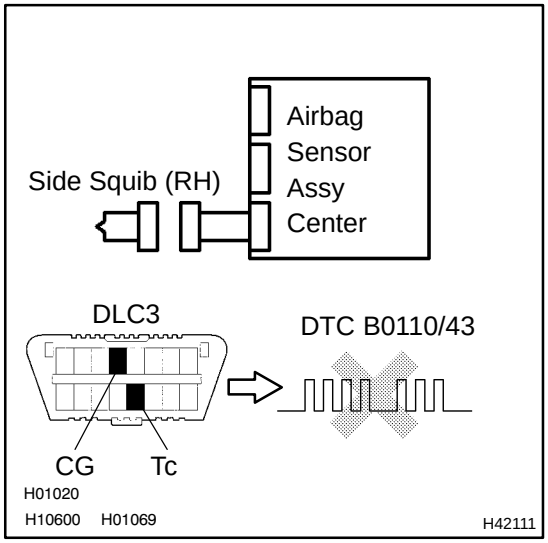
Resistance: 1 MΩ or Higher

NG	REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).

OK:

DTC B0110/43 is not output.

HINT:

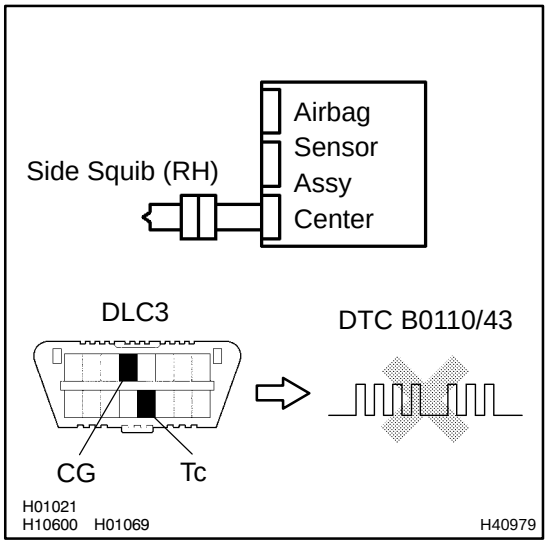
Codes other than code B0110/43 may be output at this time, but they are not relevant to this check.

NG	REPLACE AIR BAG SENSOR ASSY CENTER

OK

3 CHECK SIDE SQUIB(RH)

SST 09843–18040



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

OK:

DTC B0110/43 is not output.

HINT:

Codes other than code B0110/43 may be output at this time, but they are not relevant to this check.

NG	REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY

OK

USE SIMULATION METHOD TO CHECK

DTC B0111/44 OPEN IN SIDE SQUIB (RH) CIRCUIT

CIRCUIT DESCRIPTION

The side squib (RH) circuit consists of the airbag sensor assy center and front seat airbag assy (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0111/44 is recorded when an open is detected in the side squib (RH) circuit.

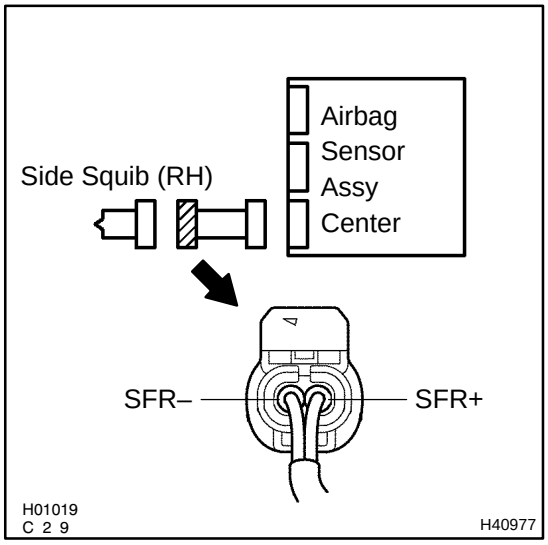
DTC No.	DTC Detecting Condition	Trouble Area
B0111/44	• Open circuit in SFR+ wire harness or SFR– wire harness of squib • Side squib (RH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–466.

INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)



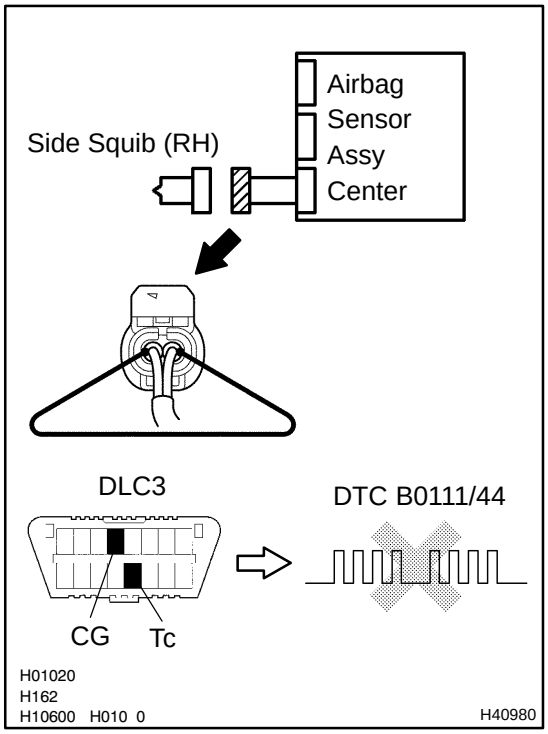
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (RH).
(c) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH), measure the resistance between SFR+ and SFR–.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFR+ and SFR– of the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0111/44 is not output.

HINT:

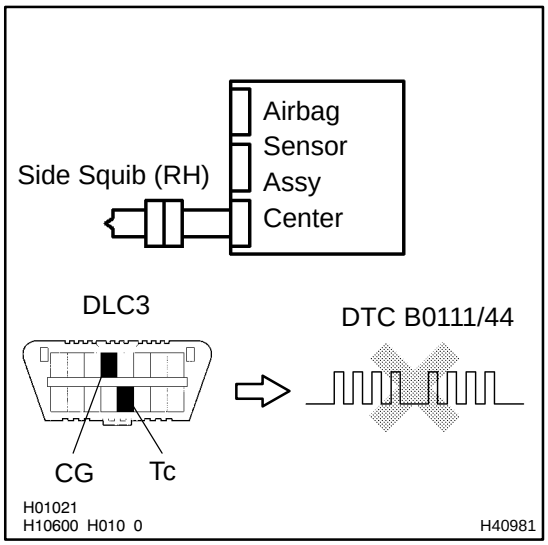
Codes other than code B0111/44 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SIDE SQUIB(RH)

SST 09843–18040



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

OK:

DTC B0111/44 is not output.

HINT:

Codes other than code B0111/44 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0112/41	SHORT IN SIDE SQUIB (RH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The side squib (RH) circuit consists of the airbag sensor assy center and front seat airbag assy (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0112/41 is recorded when ground short is detected in the side squib (RH) circuit.

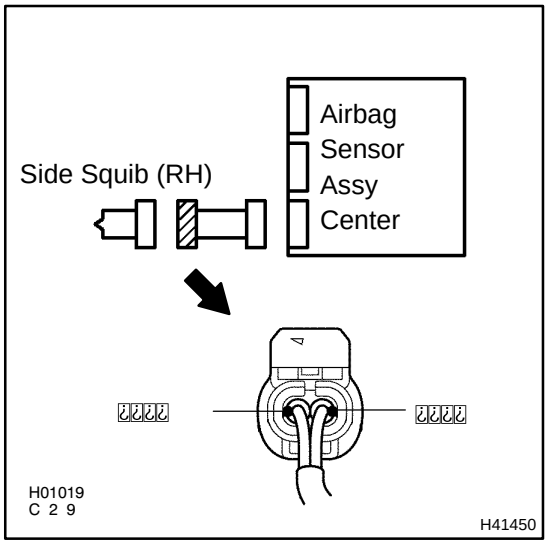
DTC No.	DTC Detecting Condition	Trouble Area
B0112/41	• Short circuit in side squib (RH) wire harness (to ground) • Side squib (RH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–466.

INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)



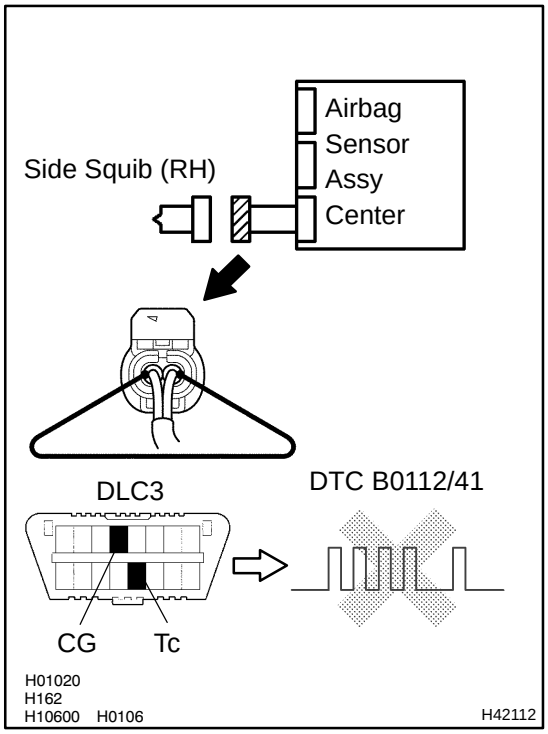
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (RH).
(c) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH), measure the resistance between SFR+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFR+ and SFR– of the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0112/41 is not output.

HINT:

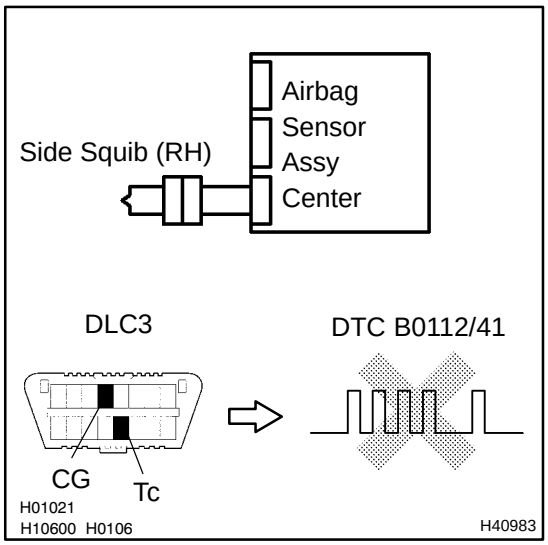
Codes other than code B0112/41 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK SIDE SQUIB(RH)

SST 09843–18040



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

OK:

DTC B0112/41 is not output.

HINT:

Codes other than code B0112/41 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC	B0113/42	SHORT IN SIDE SQUIB (RH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The side squib (RH) circuit consists of the airbag sensor assy center and front seat airbag assy (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0113/42 is recorded when a B+ short is detected in the side squib (RH) circuit.

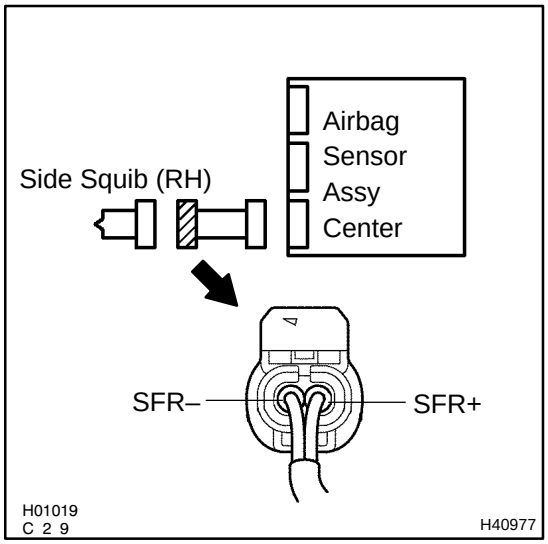
DTC No.	DTC Detecting Condition	Trouble Area
B0113/42	• Short circuit in side squib (RH) wire harness (to B+) • Side squib (RH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–466.

INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)



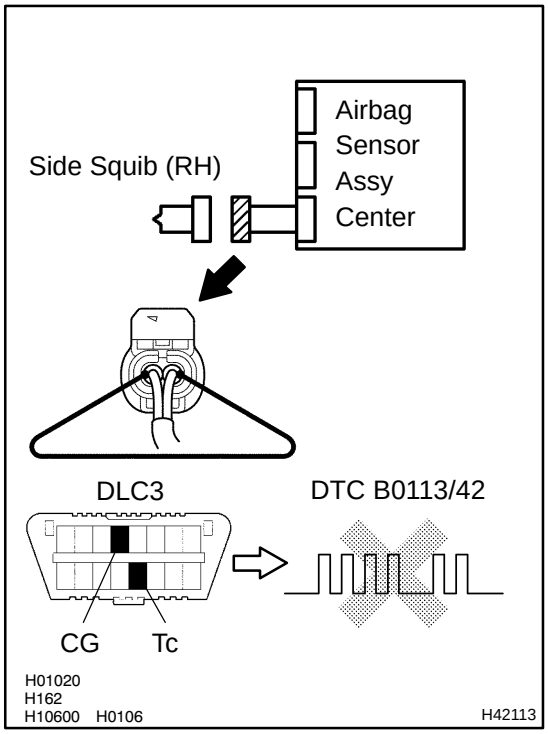
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (RH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH), measure the voltage between SFR+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY RH)**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect SFR+ and SFR– of the connector (on the front front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (RH).
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B0113/42 is not output.

HINT:

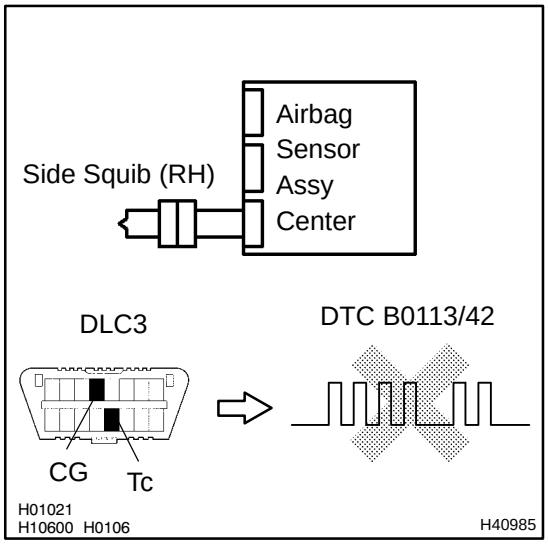
Codes other than code B0113/42 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK SIDE SQUIB(RH)

SST 09843–18040



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

OK:

DTC B0113/42 is not output.

HINT:

Codes other than code B0113/42 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

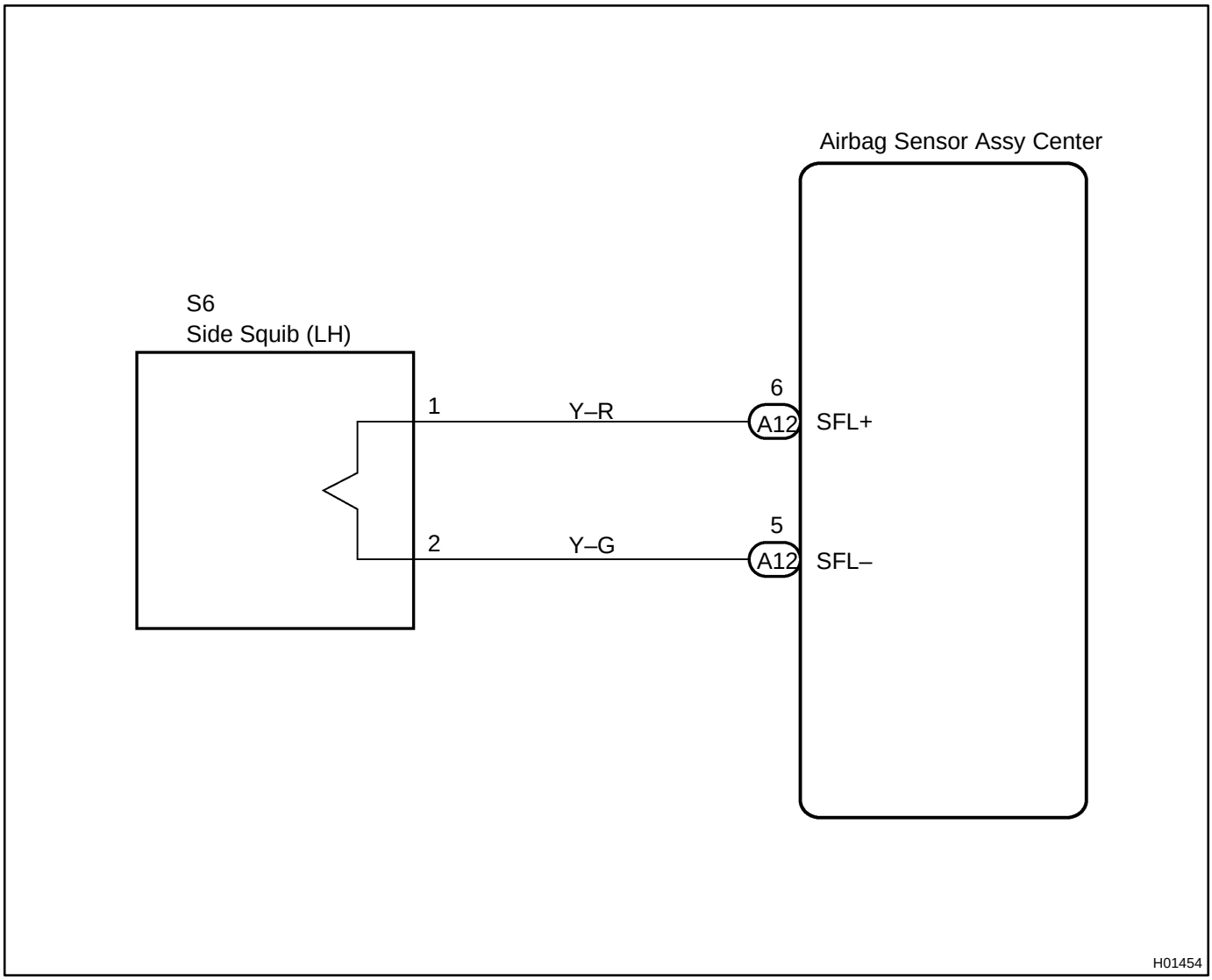
DTC B0115/47 SHORT IN SIDE SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The side squib (LH) circuit consists of the airbag sensor assy center and front seat airbag assy (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0115/47 is recorded when a short is detected in the side squib (LH) circuit.

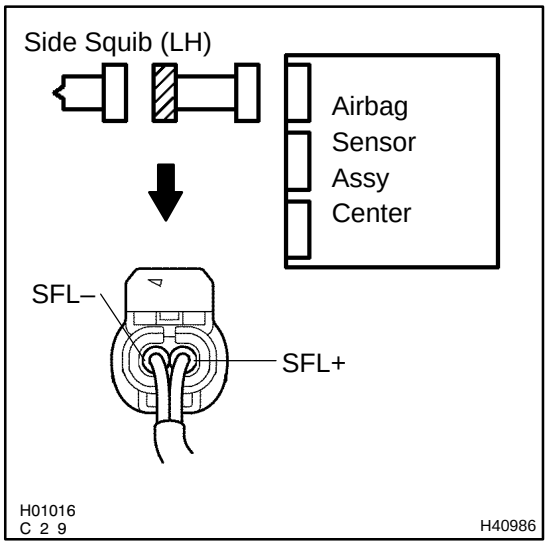
DTC No.	DTC Detecting Condition	Trouble Area
B0115/47	• Short circuit between SFL+ wire harness and SFL– wire harness of squib • Side squib (LH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)



(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (LH).
(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the front seat airbag assy (LH) (See page 05–424).
(d) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH), measure the resistance between SFL+ and SFL–.

OK:

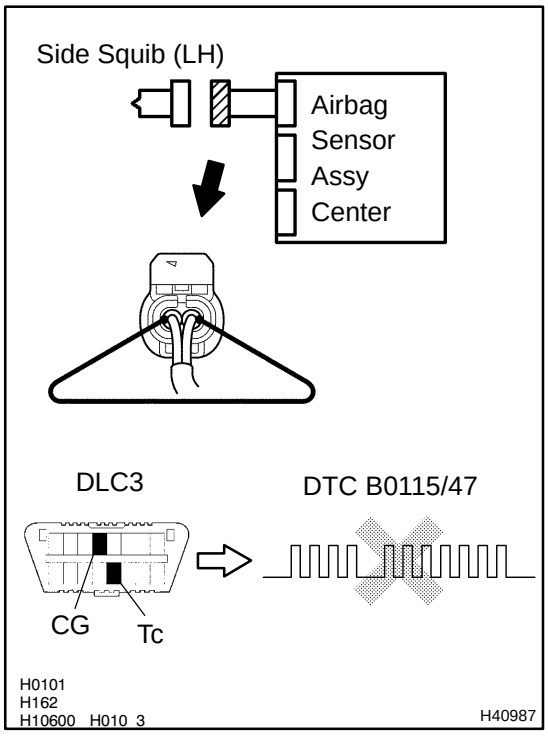
Resistance: 1 MΩ or Higher

NG	REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFL+ and SFL– of the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0115/47 is not output.

HINT:

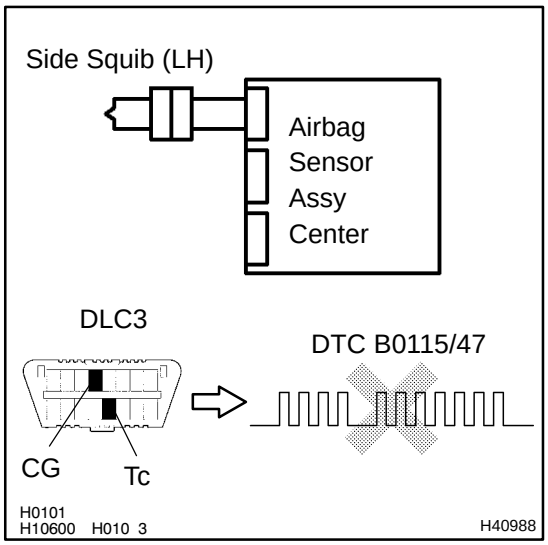
Codes other than code B0115/47 may be output at this time, but they are not relevant to this check.

NG	REPLACE AIR BAG SENSOR ASSY CENTER

OK

3 CHECK SIDE SQUIB(LH)

SST 09843–18040



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

OK:

DTC B0115/47 is not output.

HINT:

Codes other than code B0115/47 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B0116/48 OPEN IN SIDE SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The side squib (LH) circuit consists of the airbag sensor assy center and front seat airbag assy (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0116/48 is recorded when an open is detected in the side squib (LH) circuit.

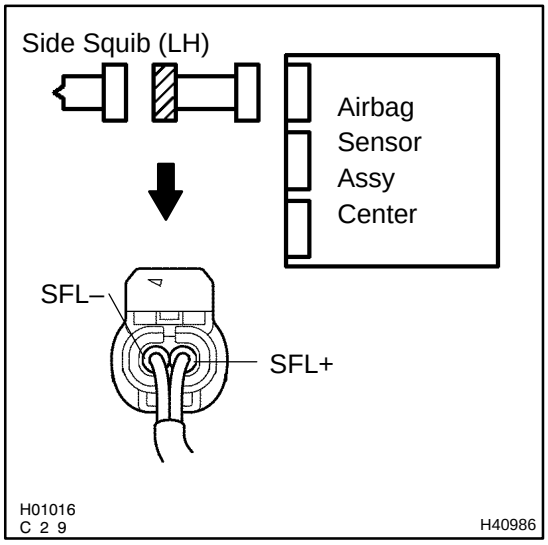
DTC No.	DTC Detecting Condition	Trouble Area
B0116/48	• Open circuit in SFL+ wire harness or SFL– wire harness of squib • Side squib (LH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–478.

INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)



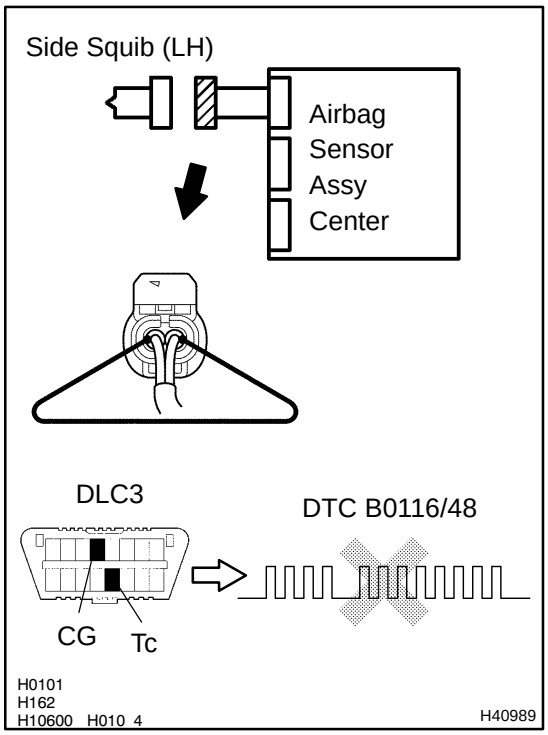
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (LH).
(c) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH), measure the resistance between SFL+ and SFL–.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFL+ and SFL– of the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0116/48 is not output.

HINT:

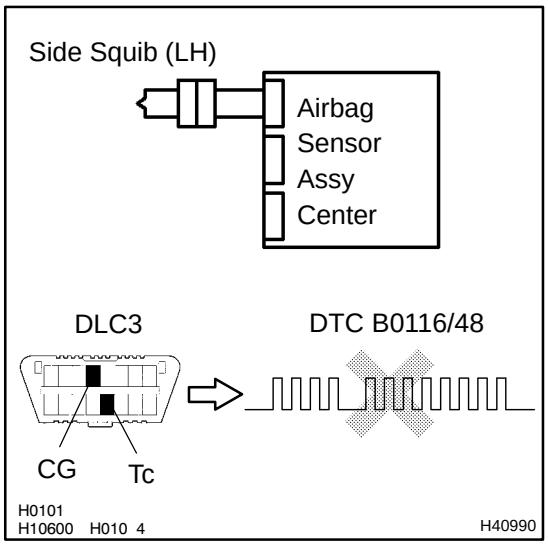
Codes other than code B0116/48 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK SIDE SQUIB(LH)

SST 09843–18040



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

OK:

DTC B0116/48 is not output.

HINT:

Codes other than code B0116/48 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0117/45	SHORT IN SIDE SQUIB (LH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The side squib (LH) circuit consists of the airbag sensor assy center and front seat airbag assy (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0117/45 is recorded when a ground short is detected in the side squib (LH) circuit.

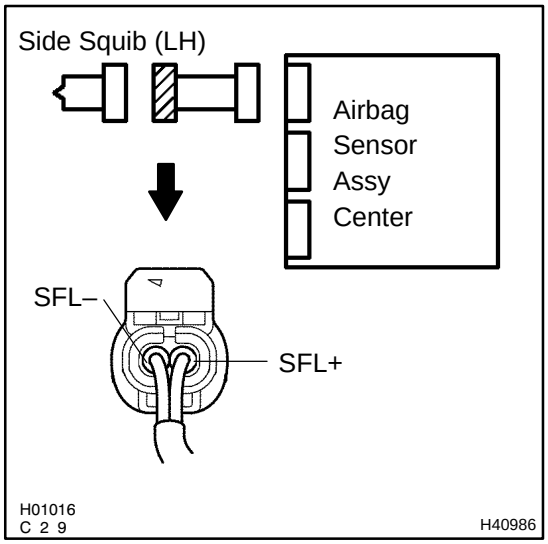
DTC No.	DTC Detecting Condition	Trouble Area
B0117/45	• Short circuit in side squib (LH) wire harness (to ground) • Side squib (LH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–478.

INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)



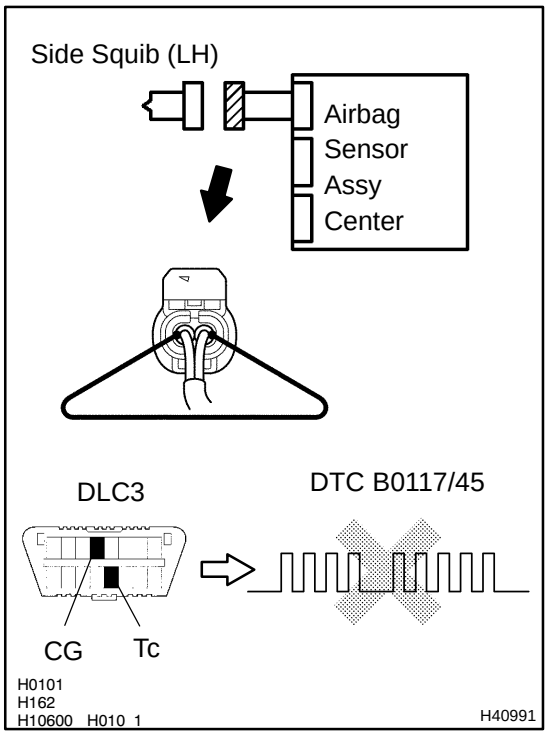
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (LH).
(c) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH), measure the resistance between SFL+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect SFL+ and SFL– of the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0117/45 is not output.

HINT:

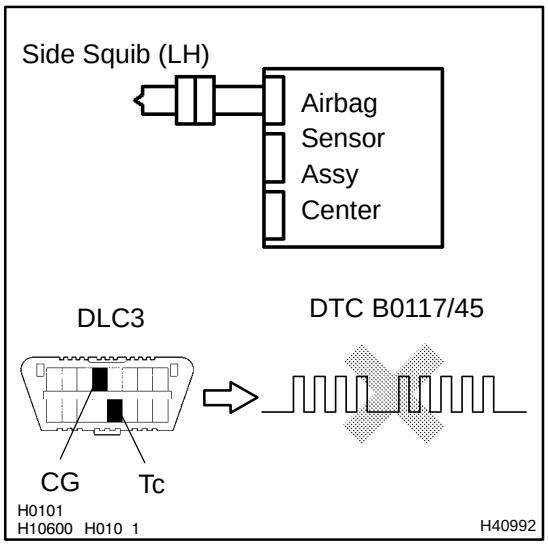
Codes other than code B0117/45 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK SIDE SQUIB(LH)

SST 09843–18040



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

OK:

DTC B0117/45 is not output.

HINT:

Codes other than code B0117/45 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC	B0118/46	SHORT IN SIDE SQUIB (LH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The side squib (LH) circuit consists of the airbag sensor assy center and front seat airbag assy (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0118/46 is recorded when a B+ short is detected in the side squib (LH) circuit.

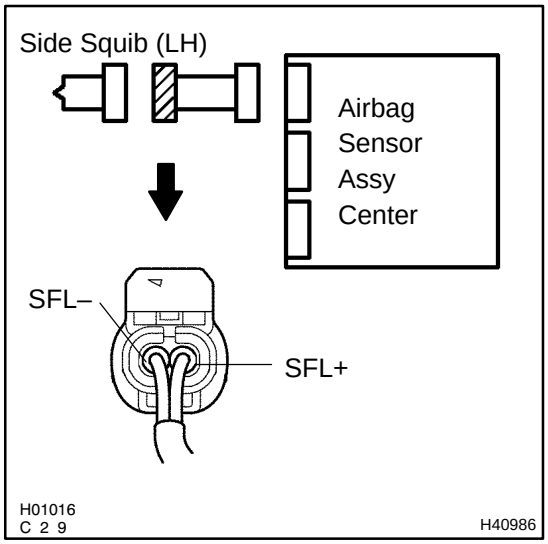
DTC No.	DTC Detecting Condition	Trouble Area
B0118/46	• Short circuit in side squib (LH) wire harness (to B+) • Side squib (LH) malfunction • Airbag sensor assy center malfunction	• Front seat airbag assy (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–478.

INSPECTION PROCEDURE

1	CHECK SIDE SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)



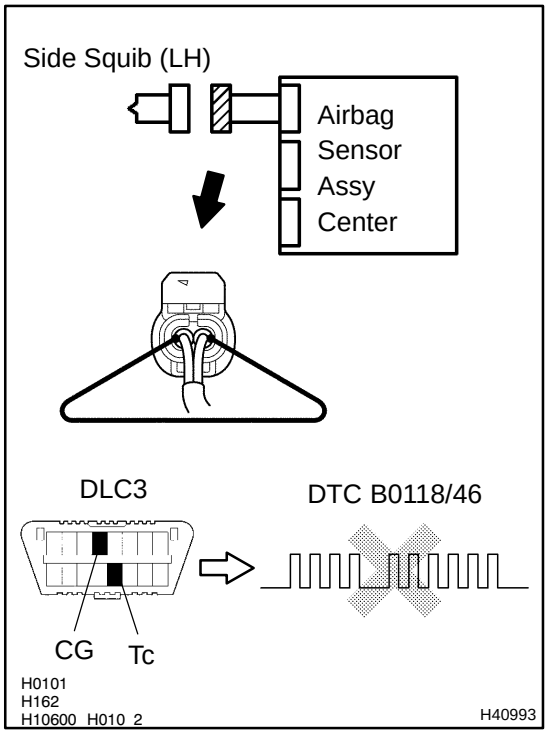
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat airbag assy (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH), measure the voltage between SFL+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – FRONT SEAT AIRBAG ASSY LH)**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect SFL+ and SFL– of the connector (on the front seat airbag assy side) between the airbag sensor assy center and the front seat airbag assy (LH).
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B0118/46 is not output.

HINT:

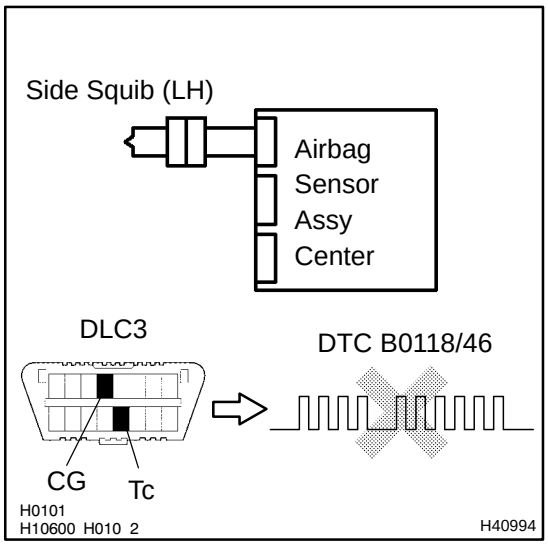
Codes other than code B0118/46 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK SIDE SQUIB(LH)

SST 09843–18040



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

OK:

DTC B0118/46 is not output.

HINT:

Codes other than code B0118/46 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEAT BACK ASSY**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC	B0126/27	SEAT BELT BUCKLE SWITCH (LH) MALFUNCTION

DTC	B0127/27	SEAT BELT BUCKLE SWITCH (LH) MALFUNCTION

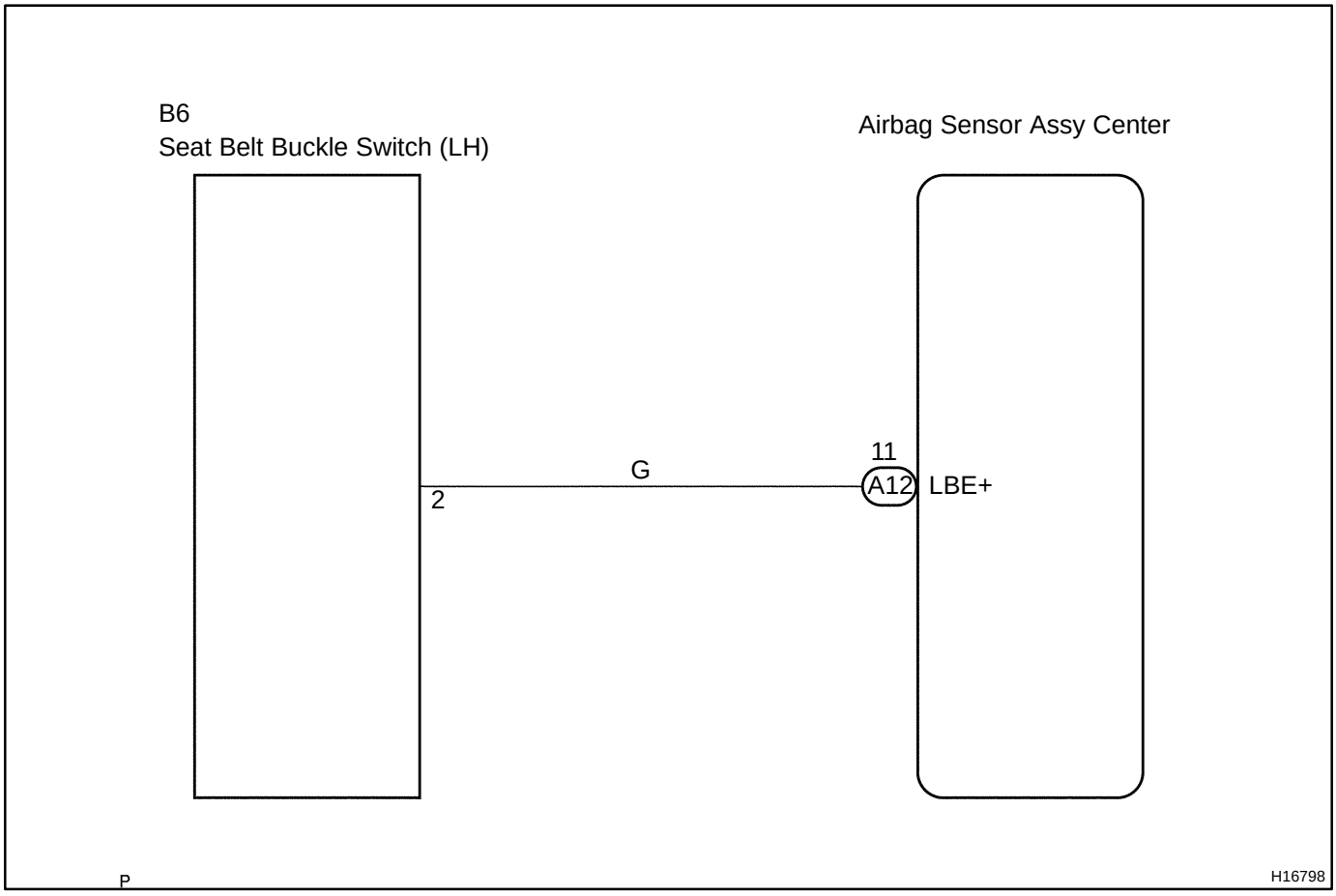
CIRCUIT DESCRIPTION

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

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

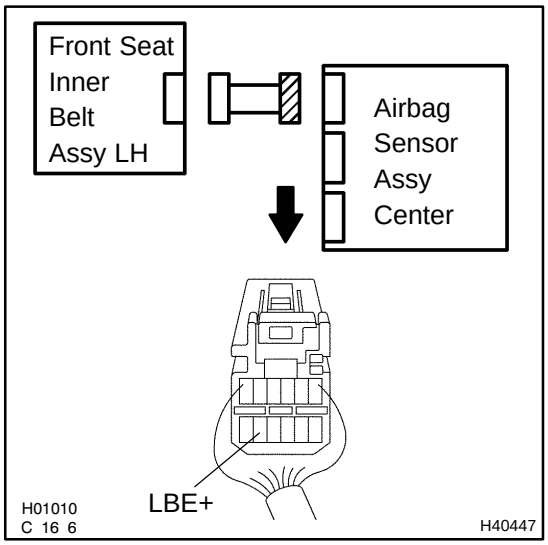
DTC No.	DTC Detecting Condition	Trouble Area
B0126/B0127/27	• Short circuit in LBE+ wire harness (to ground) • Short circuit in LBE+ wire harness (to B+) • Open circuit in LBE+ wire harness • Front seat inner belt assy (LH) malfunction • Airbag sensor assy center malfunction	• Front seat inner belt assy (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – FRONT SEAT INNER BELT ASSY LH)

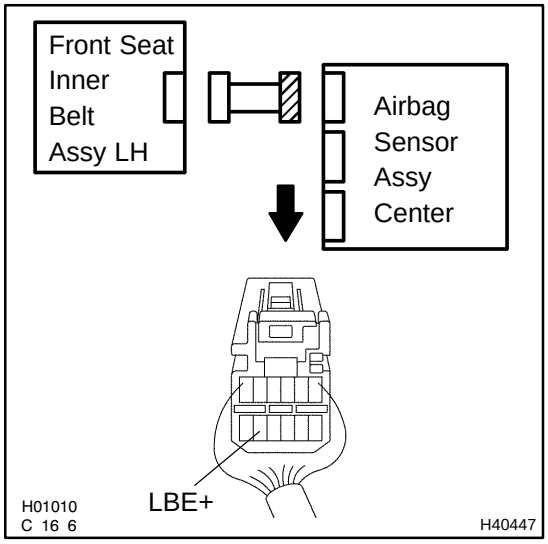


(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the front seat inner belt assy (LH).
(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the front seat inner belt assy (LH), measure the resistance between LBE+ and body ground.
OK:
Resistance: 1 MΩ or Higher

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

OK

2	CHECK WIRE HARNESS(AIRBAG SENSOR ASSY CENTER – FRONT SEAT INNER BELT ASSY LH)

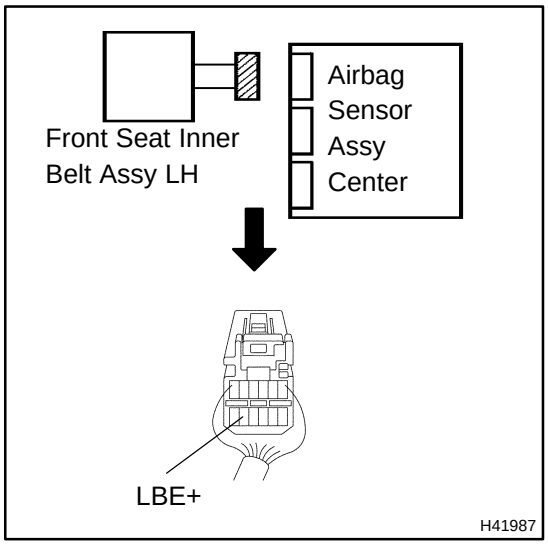


(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON.
(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the front seat inner belt assy (LH), measure the voltage between LBE+ and body ground.
OK:
Voltage: Below 1 V

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

OK

3	CHECK FRONT SEAT INNER BELT ASSY LH

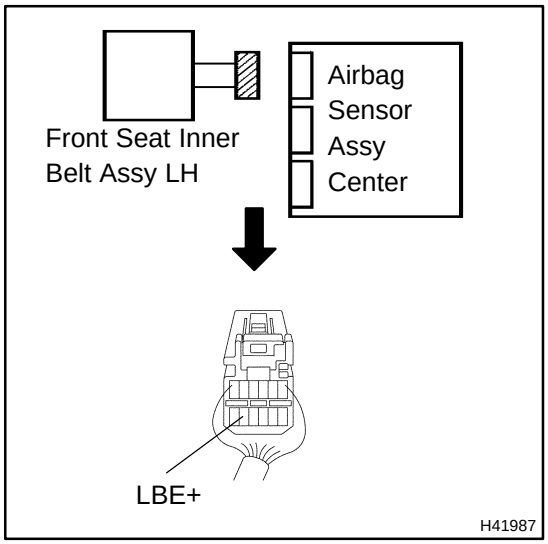


(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector of the front seat inner belt assy (LH).
(d) Unlock the seat belt for the front driver's seat.
(e) For the connector (on the airbag sensor assy center side), measure the resistance between LBE+ and body ground.
OK:
Resistance: 1.0 kΩ – 1.6 kΩ

NG → **REPLACE FRONT SEAT INNER BELT ASSY LH**

OK

4	CHECK FRONT SEAT INNER BELT ASSY LH



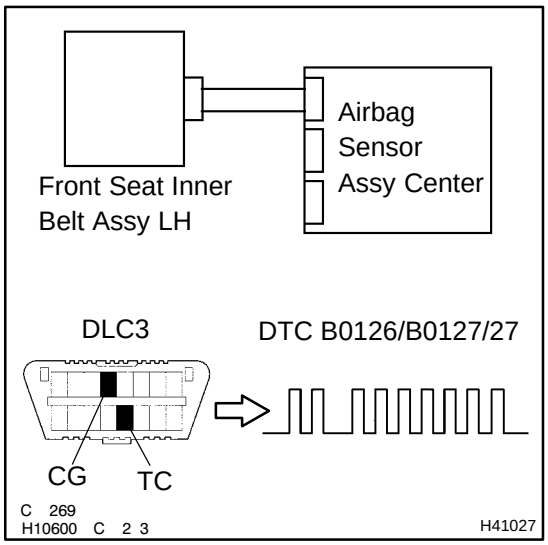
(a) Lock the seat belt for the front driver's seat.
(b) For the connector (on the airbag sensor assy center side), measure the resistance between LBE+ and body ground.
OK:
Resistance: 100 Ω – 500 Ω

NG → **REPLACE FRONT SEAT INNER BELT ASSY LH**

OK

5	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B0126/B0127/27 is not output.

HINT:
Codes other than code B0126/B0127/27 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

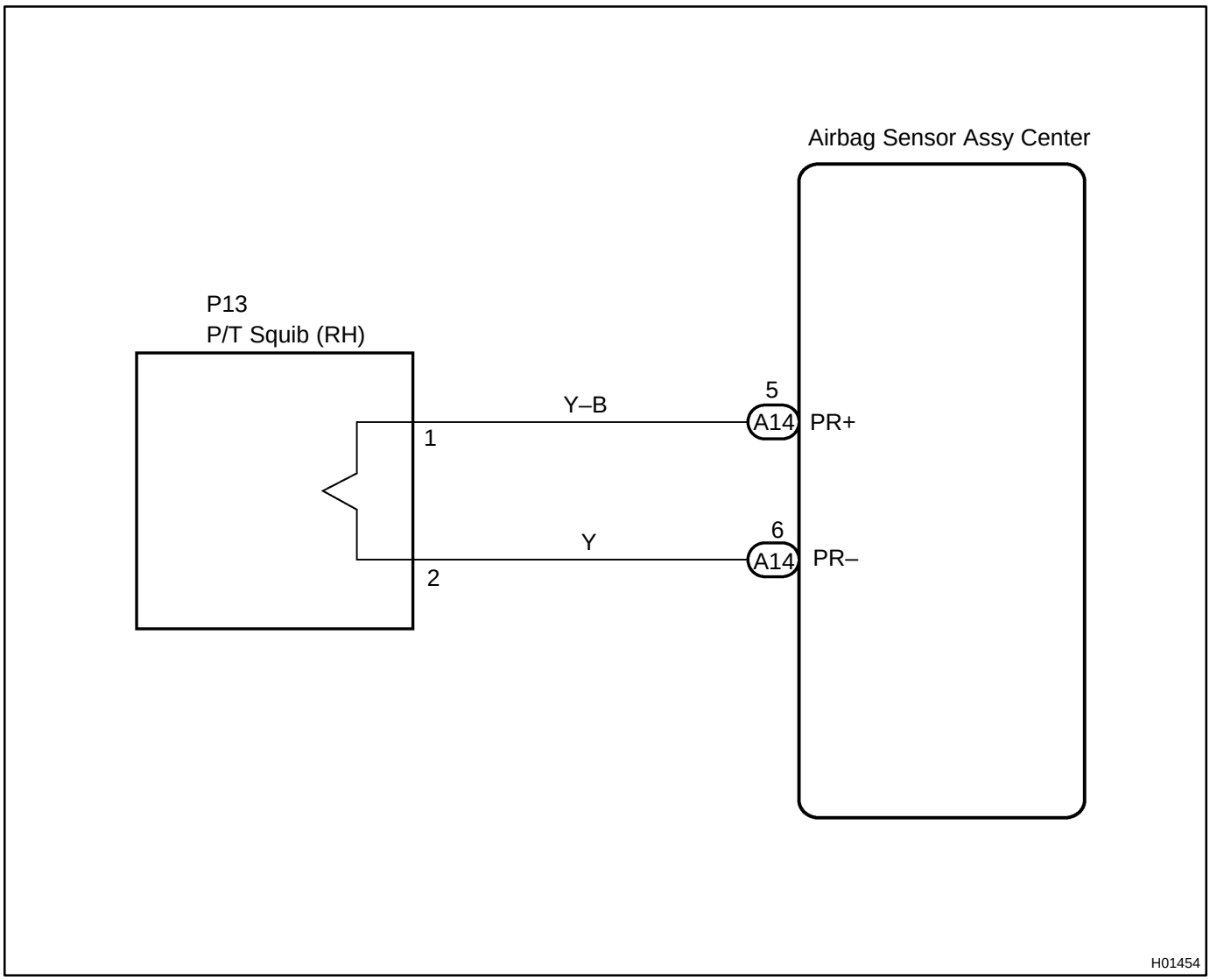
DTC B0130/63 SHORT IN P/T SQUIB (RH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib (RH) circuit consists of the airbag sensor assy center and seat belt pretensioner (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0130/63 is recorded when a short is detected in the P/T squib (RH) circuit.

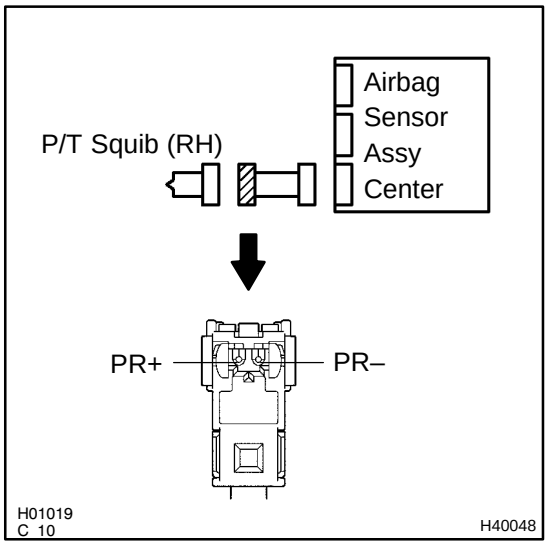
DTC No.	DTC Detecting Condition	Trouble Area
B0130/63	• Short circuit between PR+ wire harness and PR– wire harness of squib • P/T squib (RH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK P/T SQUIB(RH) CIRCUIT(AIRBAGA SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY RH)



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

(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (RH).

HINT:

Make sure that the connector is not damaged (The lock button is not disengaged, or the claw of the lock is not deformed or damaged). If the damage is found, replace the wire harness.

(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat belt pretensioner (RH) (See page 05–424).

(d) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH), measure the resistance between PR+ and PR–.

OK:

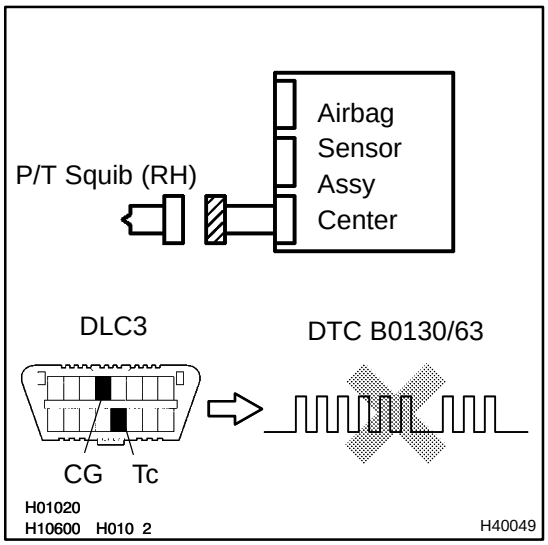
Resistance: 1 MΩ or Higher

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

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B0130/63 is not output.

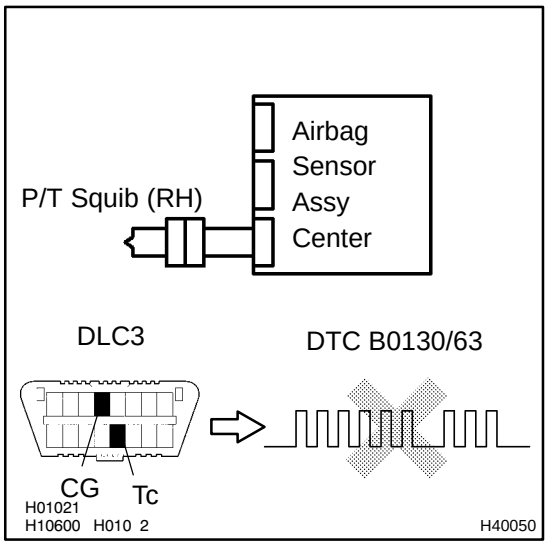
HINT:
Codes other than code B0130/63 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P/T SQUIB (RH)

SST 09843–18040



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

OK:

DTC B0130/63 is not output.

HINT:

Codes other than code B0130/63 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC B0131/64 OPEN IN P/T (RH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib circuit (RH) consists of the airbag sensor assy center and seat belt pretensioner (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0131/64 is recorded when an open is detected in the P/T squib (RH) circuit.

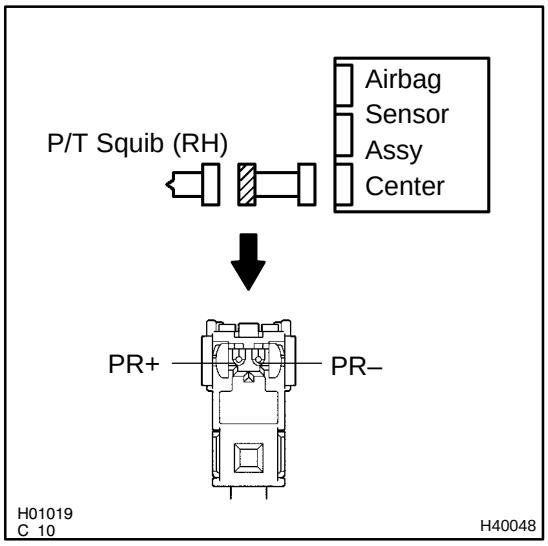
DTC No.	DTC Detecting Condition	Trouble Area
B0131/64	• Open circuit in PR+ wire harness or PR– wire harness of squib • P/T squib (RH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–494.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY RH)



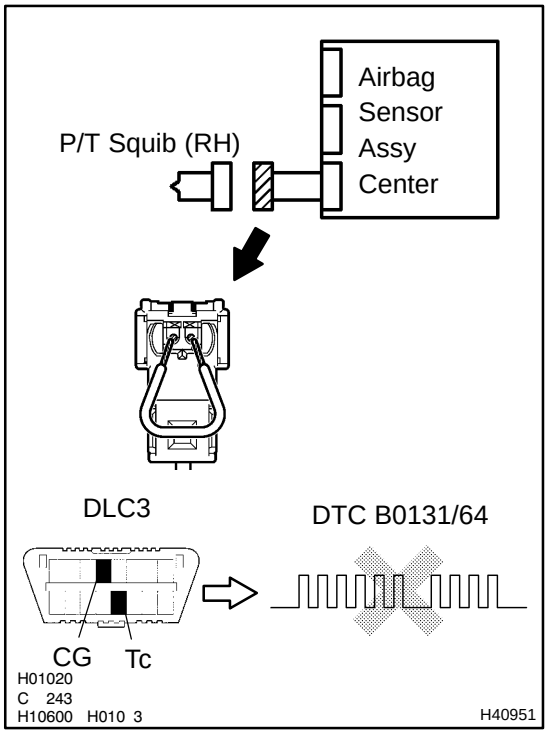
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (RH).
(c) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH), measure the resistance between PR+ and PR–.
OK:
Resistance: Below 1 Ω

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

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PR+ and PR– of the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0131/64 is not output.

HINT:

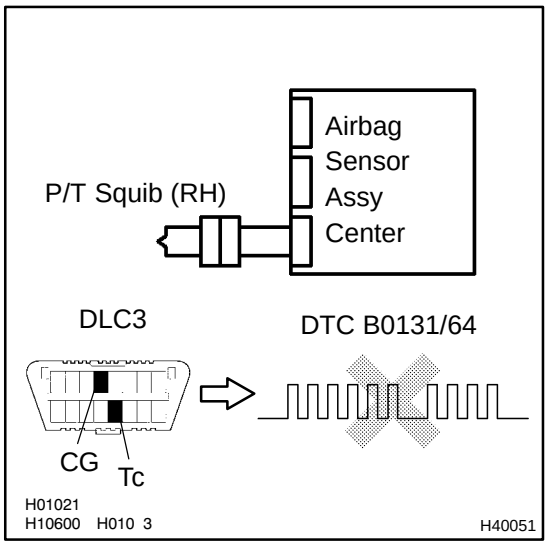
Codes other than code B0131/64 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P/T SQUIB (RH)

SST 09843–18040



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

OK:

DTC B0131/64 is not output.

HINT:

Codes other than code B0131/64 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0132/61	SHORT IN P/T SQUIB (RH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The P/T squib (RH) circuit consists of the airbag sensor assy center and seat belt pretensioner (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0132/61 is recorded when a ground short is detected in the P/T squib (RH) circuit.

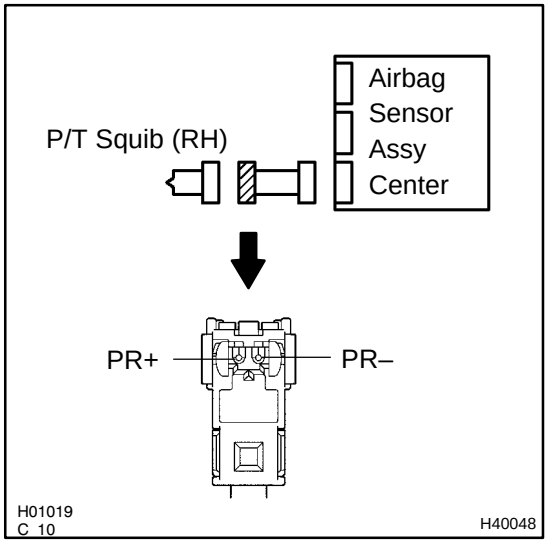
DTC No.	DTC Detecting Condition	Trouble Area
B0132/61	• Short circuit in P/T squib (RH) wire harness (to ground) • P/T squib (RH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–494.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY RH)



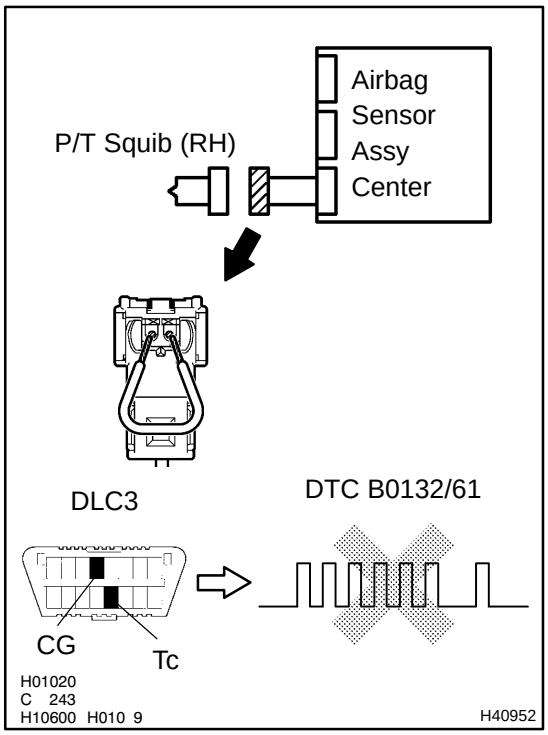
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (RH).
(c) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH), measure the resistance between PR+ and body ground.
OK:
Resistance: 1 MΩ or Higher

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

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PR+ and PR– of the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0132/61 is not output.

HINT:

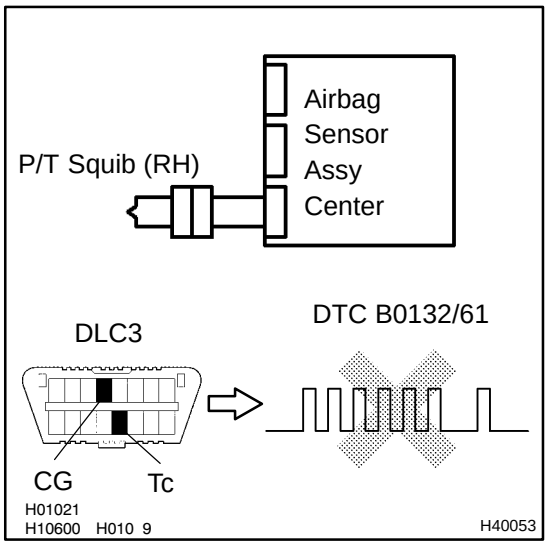
Codes other than code B0132/61 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P/T SQUIB (RH)

SST 09843–18040



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

OK:

DTC B0132/61 is not output.

HINT:

Codes other than code B0132/61 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC B0133/62 SHORT IN P/T SQUIB (RH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib (RH) circuit consists of the airbag sensor assy center and seat belt pretensioner (RH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0133/62 is recorded when a B+ short is detected in the P/T squib (RH) circuit.

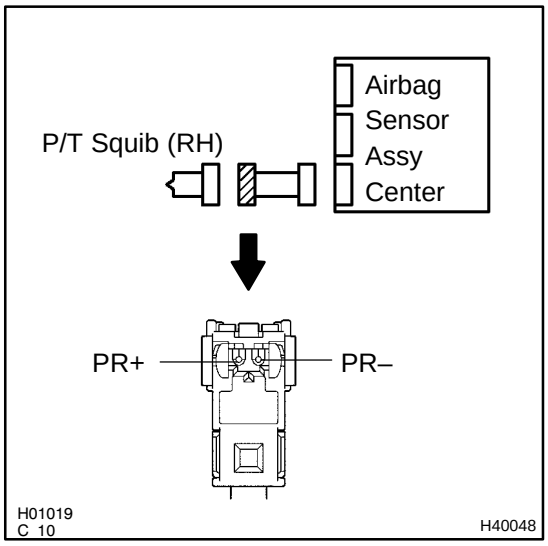
DTC No.	DTC Detecting Condition	Trouble Area
B0133/62	• Short circuit in seat belt pretensioner (RH) wire harness (to B+) • P/T squib (RH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (RH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–494.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY RH)



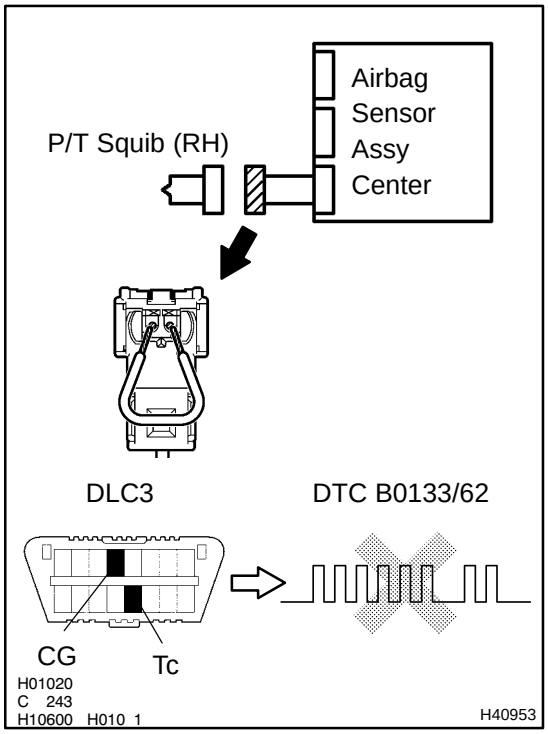
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (RH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH), measure the voltage between PR+ and body ground.
OK:
Voltage: Below 1V

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

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect PR+ and PR– of the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (RH).
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B0133/62 is not output.

HINT:

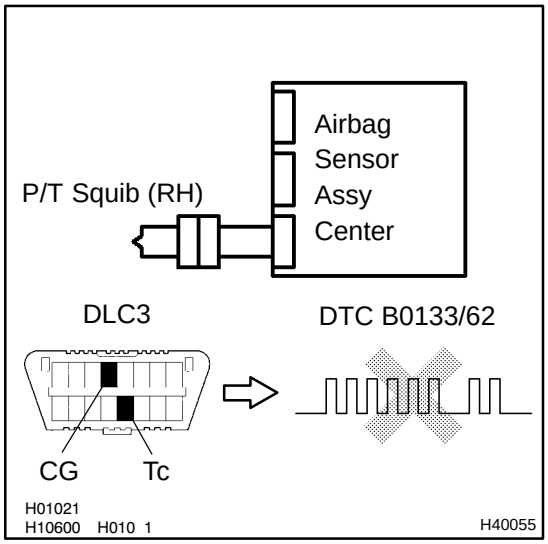
Codes other than code B0133/62 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P/T SQUIB (RH)

SST 09843–18040



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

OK:

DTC B0133/62 is not output.

HINT:

Codes other than code B0133/62 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

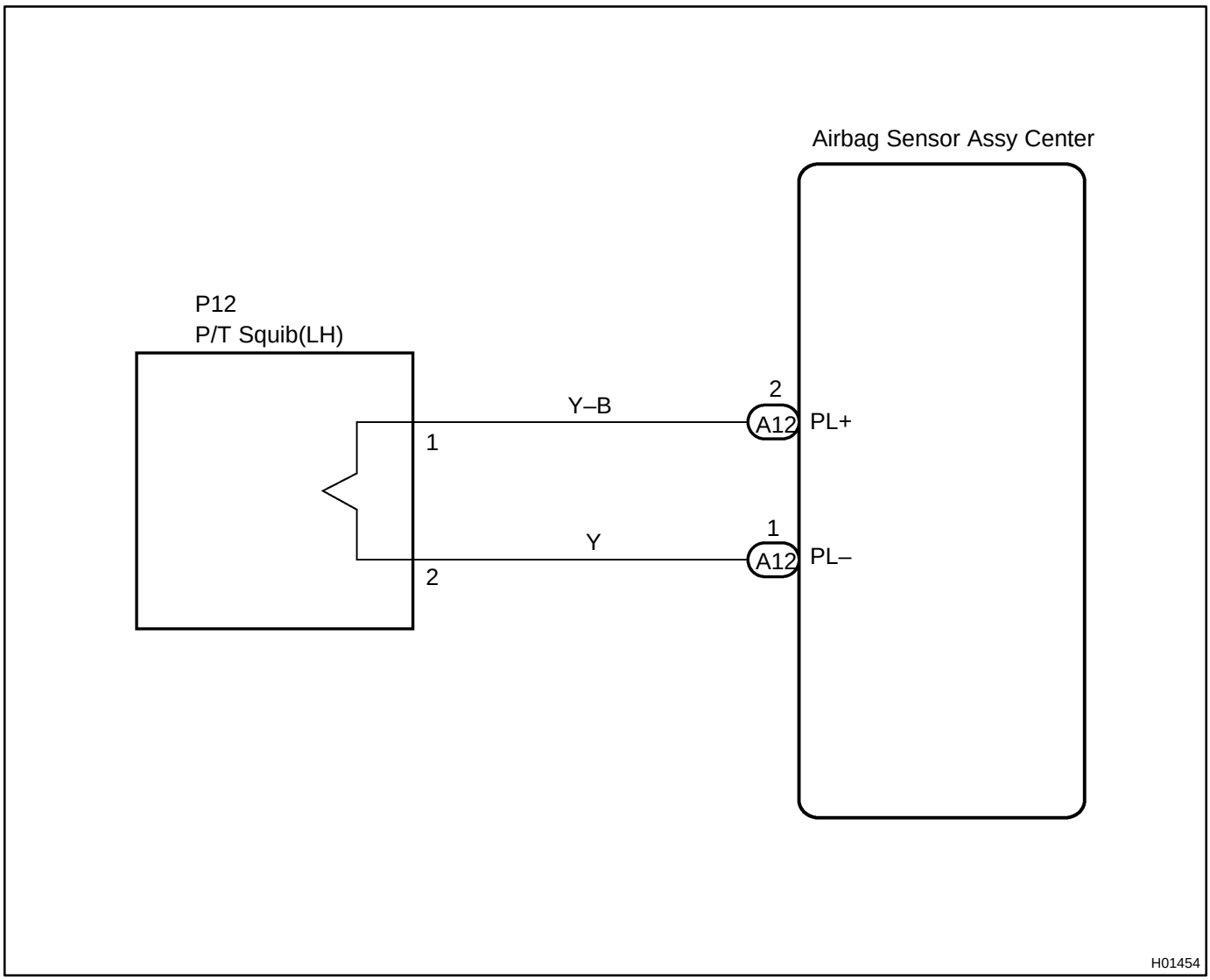
DTC B0135/73 SHORT IN P/T SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib (LH) circuit consists of the airbag sensor assy center and seat belt pretensioner (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0135/73 is recorded when a short is detected in the P/T squib (LH) circuit.

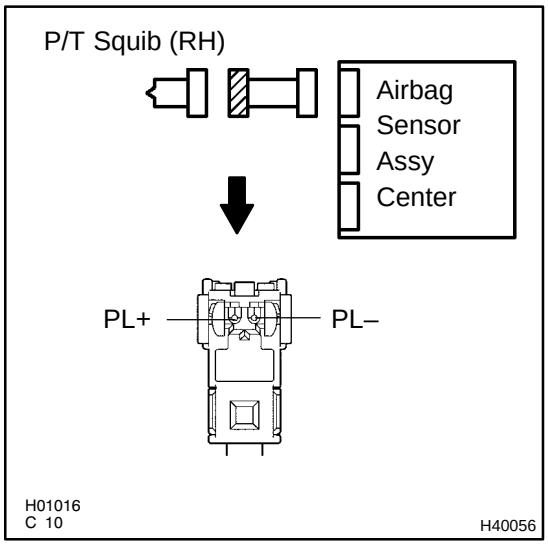
DTC No.	DTC Detecting Condition	Trouble Area
B0135/73	• Short circuit between PL+ wire harness and PL– wire harness of squib • P/T squib (LH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK P/T SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY LH)



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

(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (LH).

HINT:

Make sure that the connector is not damaged (The lock button is not disengaged, or the claw of the lock is not deformed or damaged). If the damage is found, replace the wire harness.

(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat belt pretensioner (LH) (See page 05–424).

(d) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH), measure the resistance between PL+ and PL–.

OK:

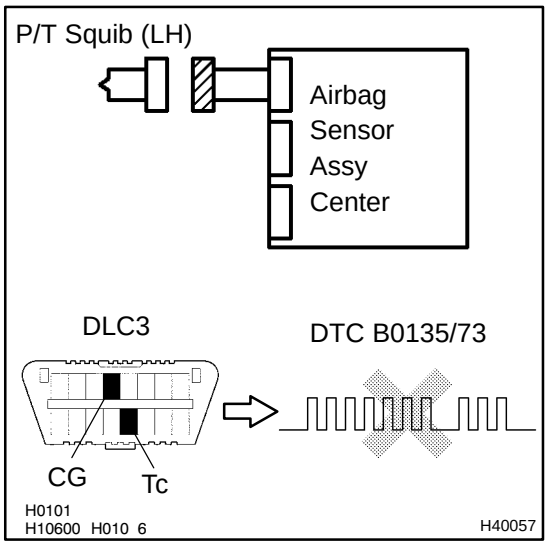
Resistance: 1 MΩ or Higher

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

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B0135/73 is not output.

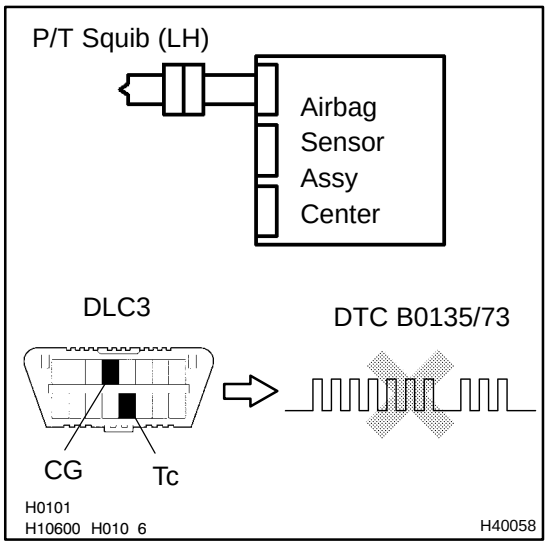
HINT:
Codes other than code B0135/73 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P/T SQUIB (LH)

SST 09843–18040



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

OK:

DTC B0135/73 is not output.

HINT:

Codes other than code B0135/73 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

USE SIMULATION METHOD TO CHECK

DTC B0136/74 OPEN IN P/T SQUIB (LH) CIRCUIT

CIRCUIT DESCRIPTION

The P/T squib circuit (LH) consists of the airbag sensor assy center and seat belt pretensioner (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0136/74 is recorded when an open is detected in the P/T squib (LH) circuit.

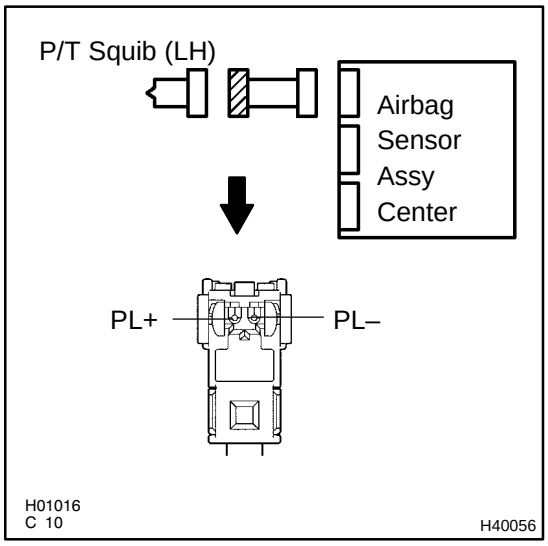
DTC No.	DTC Detecting Condition	Trouble Area
B0136/74	• Open circuit in PL+ wire harness or PL– wire harness of squib • P/T squib (LH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–507.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY LH)



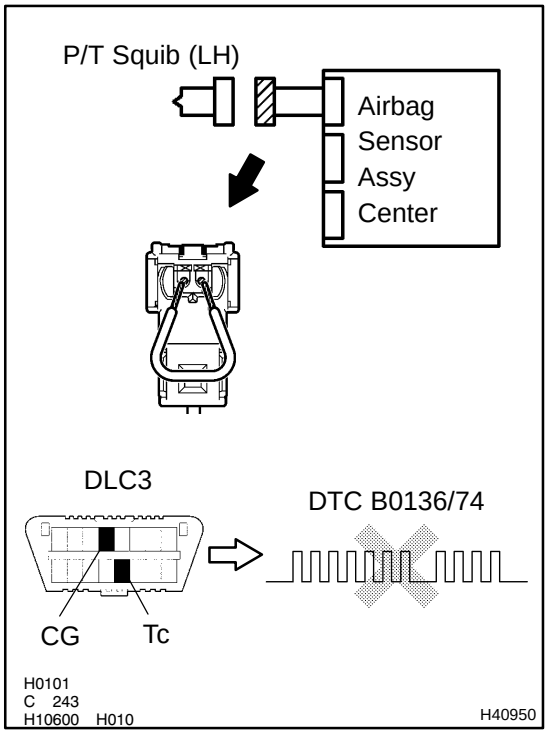
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (LH).
(c) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH), measure the resistance between PL+ and PL–.
OK:
Resistance: Below 1 Ω

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

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PL+ and PL– of the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B0136/74 is not output.

HINT:

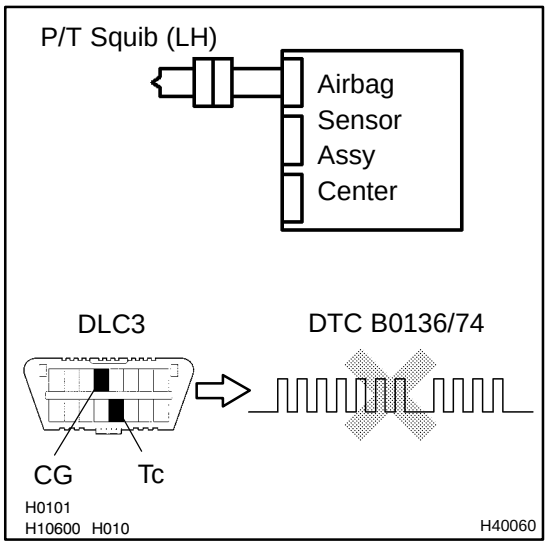
Codes other than code B0136/74 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P/T SQUIB (LH)

SST 09843–18040



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

OK:

DTC B0136/74 is not output.

HINT:

Codes other than code B0136/74 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

USE SIMULATION METHOD TO CHECK

DTC	B0137/71	SHORT IN P/T SQUIB (LH) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The P/T squib (LH) circuit consists of the airbag sensor assy center and seat belt pretensioner (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0137/71 is recorded when a ground short is detected in the P/T squib (LH) circuit.

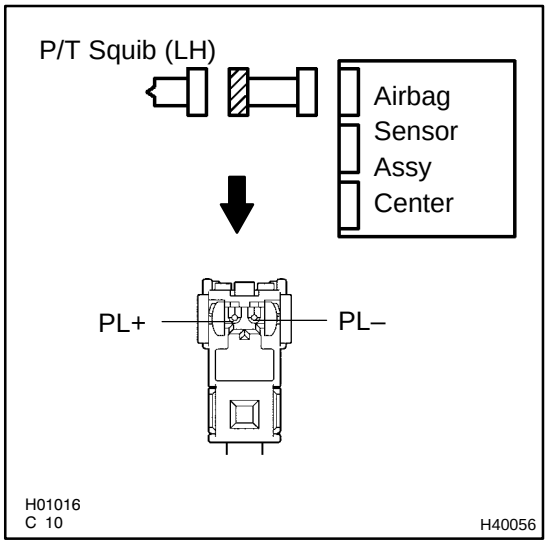
DTC No.	DTC Detecting Condition	Trouble Area
B0137/71	• Short circuit in P/T squib (LH) wire harness (to ground) • P/T squib (LH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–507.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY LH)



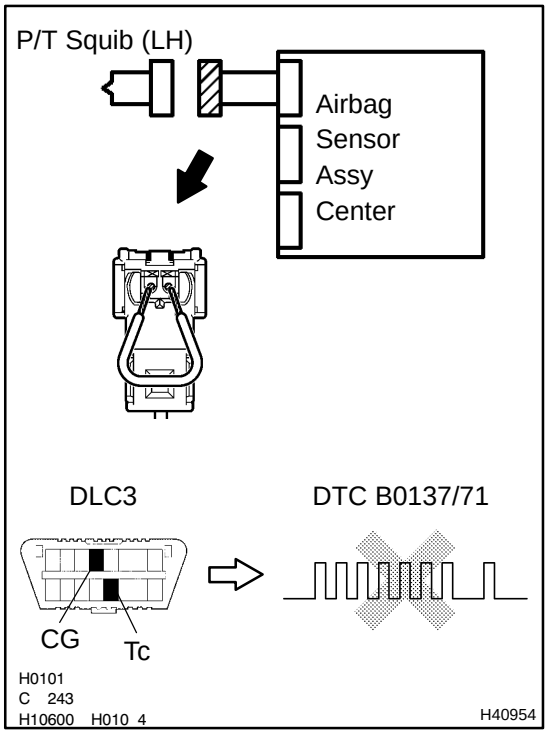
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (LH).
(c) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH), measure the resistance between PL+ and body ground.
OK:
Resistance: 1 MΩ or Higher

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

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect PL+ and PL– of the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).
OK:
DTC B0137/71 is not output.

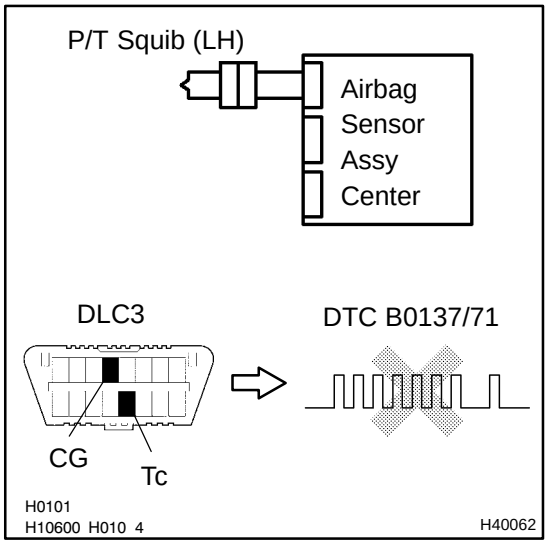
HINT:
Codes other than code B0137/71 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P/T SQUIB (LH)

SST 09843–18040



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

OK:

DTC B0137/71 is not output.

HINT:

Codes other than code B0137/71 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC B0138/72 SHORT IN P/T SQUIB (LH) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib (LH) circuit consists of the airbag sensor assy center and seat belt pretensioner (LH).
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B0138/72 is recorded when a B+ short is detected in the P/T squib (LH) circuit.

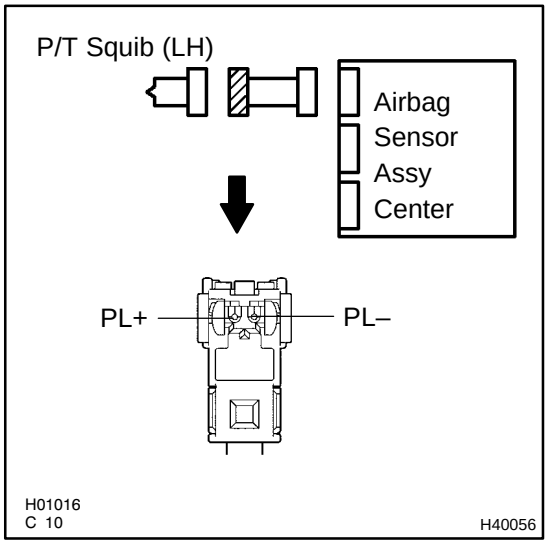
DTC No.	DTC Detecting Condition	Trouble Area
B0138/72	• Short circuit in seat belt pretensioner (LH) wire harness (to B+) • P/T squib (LH) malfunction • Airbag sensor assy center malfunction	• Seat belt pretensioner (LH) • Airbag sensor assy center • Instrument panel wire No.3

WIRING DIAGRAM

See page 05–507.

INSPECTION PROCEDURE

1	CHECK P/T SQUIB(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – FRONT SEAT OUTER BELT ASSY LH)



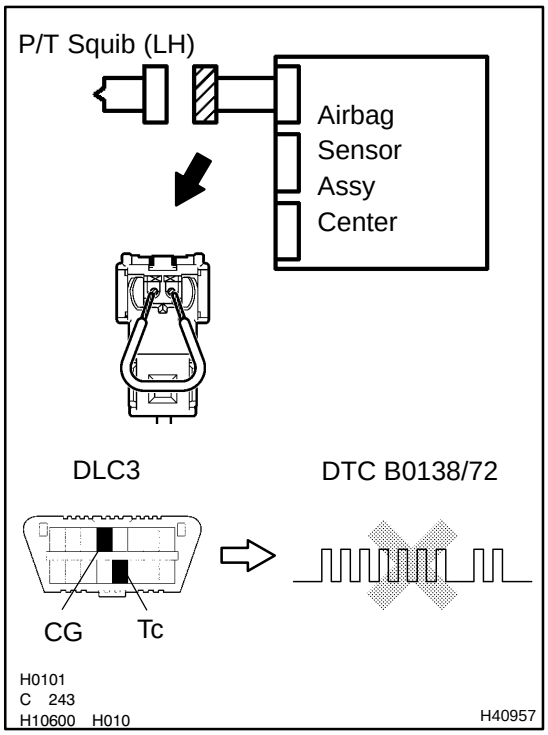
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the seat belt pretensioner (LH).
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH), measure the voltage between PL+ and body ground.
OK:
Voltage: Below 1V

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

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect PL+ and PL– of the connector (on the seat belt pretensioner side) between the airbag sensor assy center and the seat belt pretensioner (LH).
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B0138/72 is not output.

HINT:

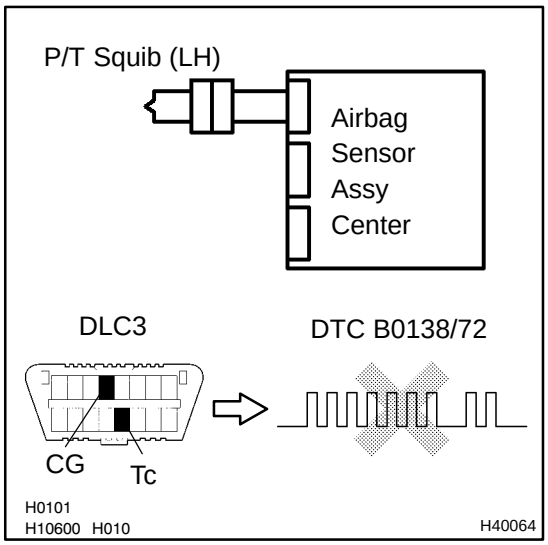
Codes other than code B0138/72 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P/T SQUIB (LH)

SST 09843–18040



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

OK:

DTC B0138/72 is not output.

HINT:

Codes other than code B0138/72 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH**

OK

4	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC B1100/31 AIRBAG SENSOR ASSY MALFUNCTION

CIRCUIT DESCRIPTION

The airbag sensor assy center consists of a airbag sensor assy center, safing sensor, drive circuit, diagnosis circuit and ignition control, etc.
It receives signals from the airbag sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.
DTC B1100/31 is recorded when occurrence of a malfunction in the airbag sensor assy center is detected.

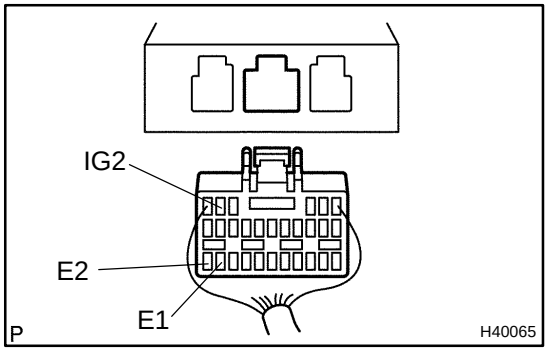
DTC No.	DTC Detecting Condition	Trouble Area
B1100/31	• Airbag sensor assy center malfunction	• Airbag sensor assy center

INSPECTION PROCEDURE

HINT:
When a malfunction code other than code B1100/31 is displayed at the same time, first repair the malfunction indicated by the malfunction code other than code B1100/31.

INSPECTION PROCEDURE

1 CHECK VOLTAGE AT IG2 OF AIRBAG SENSOR ASSY CENTER



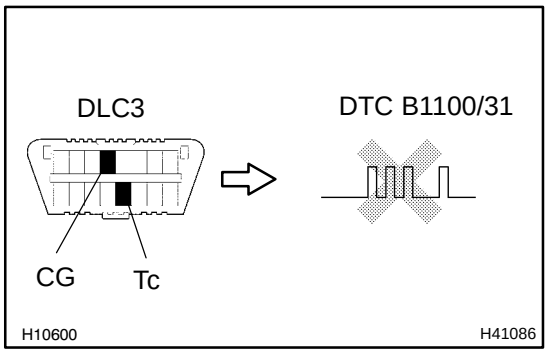
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connector of the airbag sensor assy center.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) Measure the voltage between E1 (E2) and IG2 of the airbag sensor assy center connector.
OK:
Voltage: 10 – 14 V

NG → **CHECK CHECK THAT AN ABNORMALITY OCCURS ON THE BATTERY AND CHARGING SYSTEM**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors of all the SRS components.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 20 seconds.
(f) Clear the DTC stored in memory (See page 05–424).
(g) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(h) Turn the ignition switch to ON, and wait at least for 20 seconds.
(i) Check the DTC (See page 05–424).
OK:
DTC B1100/31 is not output.

HINT:
Codes other than code B1100/31 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1135/24	HARF CONNECTION IN AIRBAG SENSOR ASSY CONNECTOR

CIRCUIT DESCRIPTION

The airbag sensor assy center detects partial connection of connector.
DTC B1135/24 is recorded when the airbag sensor assy center detects an open in the electrical connection check mechanism of the airbag sensor connector or in the airbag sensor circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1135/24	• Malfunction of electrical connection check mechanism of airbag sensor assy center connector • Airbag sensor assy center malfunction	• Electrical connection check mechanism • Airbag sensor assy center

INSPECTION PROCEDURE

1	CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

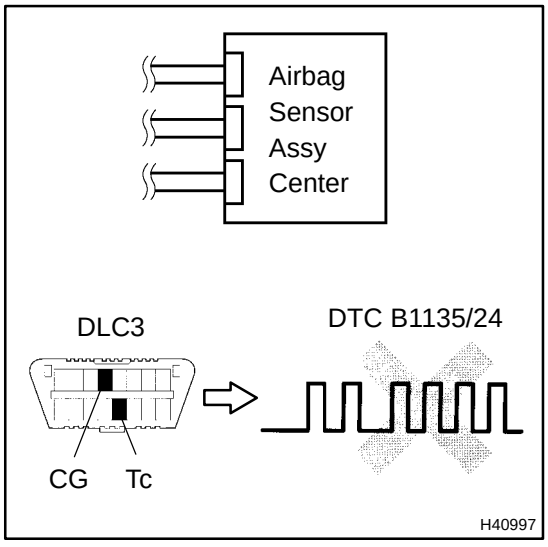
(a) Disconnect negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Check the connection of the airbag sensor assy center connectors.

NG → CONNECT CONNECTORS

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



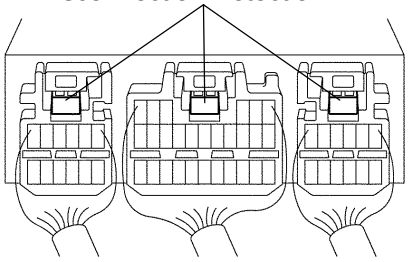
(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 20 seconds.
(c) Clear the DTC stored in memory (See page 05–424).
(d) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(e) Turn the ignition switch to ON, and wait at least for 20 seconds.
(f) Check the DTC (See page 05–424).
OK:
DTC B1135/24 is not output.

HINT:
Codes other than code B1135/24 may be output at this time, but they are not relevant to this check.

OK → USE SIMULATION METHOD TO CHECK

NG

3	CHECK PERFORM A VISUAL CHECK OF THE DISCONNECTION DETECTION PIN



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) With 3 connectors connected to the airbag sensor assy center, place tester leads onto any 2 of 3 disconnection detection pins and check for continuity.
OK:
Continuity

NG → **REPAIR OR REPLACE AIRBAG SENSOR ASSY CENTER CONNECTOR**

OK

REPLACE AIR BAG SENSOR ASSY CENTER

DTC	B1140/32	SIDE AIRBAG SENSOR ASSY (RH) MALFUNCTION

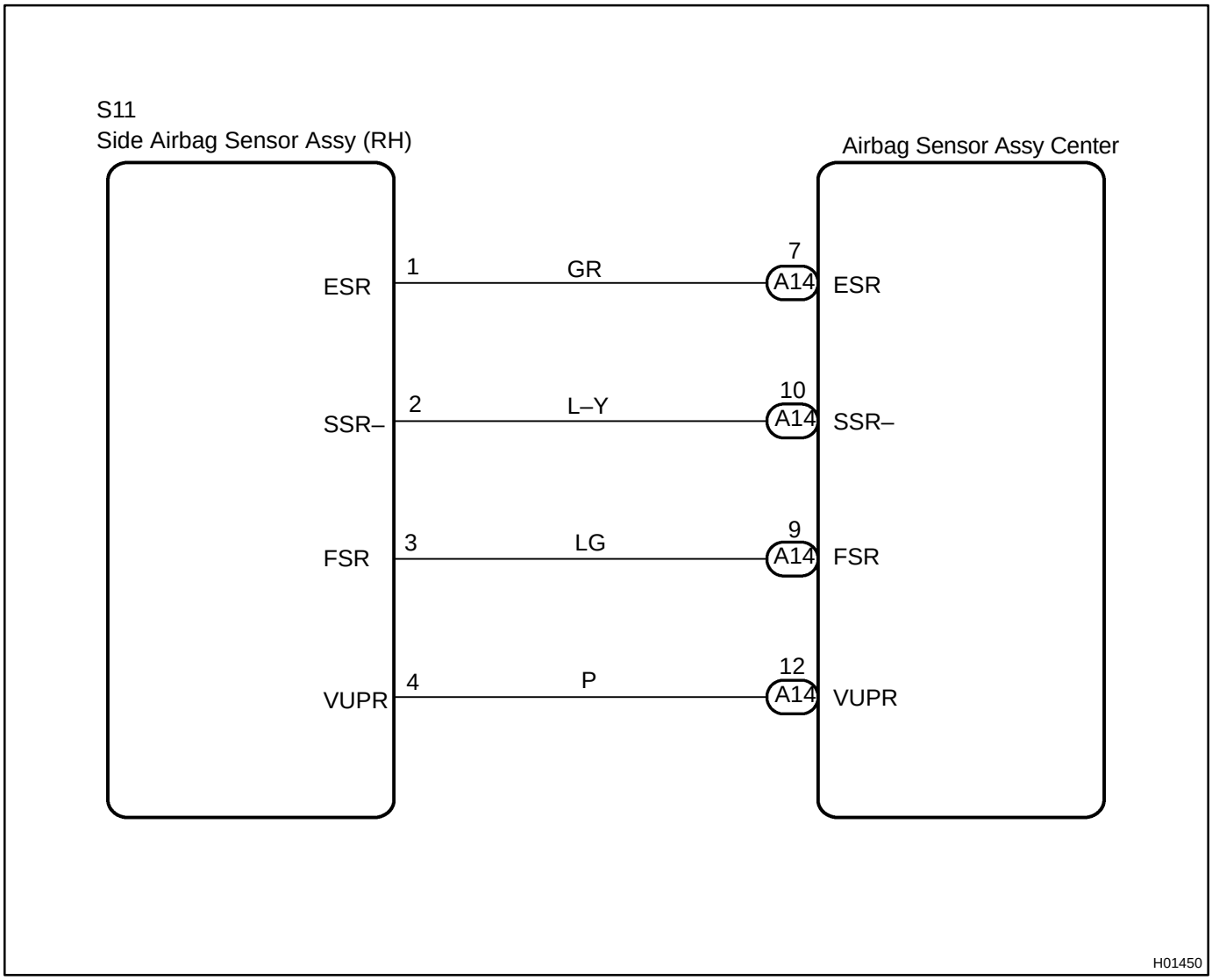
CIRCUIT DESCRIPTION

The side airbag sensor assy (RH) circuit consists of the diagnosis circuit and lateral deceleration sensor, etc. It receives signals from the lateral deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.

DTC B1140/32 is recorded when occurrence of a malfunction in the side airbag sensor assy (RH) is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1140/32	• Short circuit in wire harness of side airbag sensor RH (to ground) • Short circuit in wire harness of side airbag sensor RH (to B+) • Open circuit in wire harness of side airbag sensor RH • Side airbag sensor assy RH malfunction • Airbag sensor assy center malfunction	• Side airbag sensor assy (RH) • Airbag sensor assy center • Instrument panel wire No.3

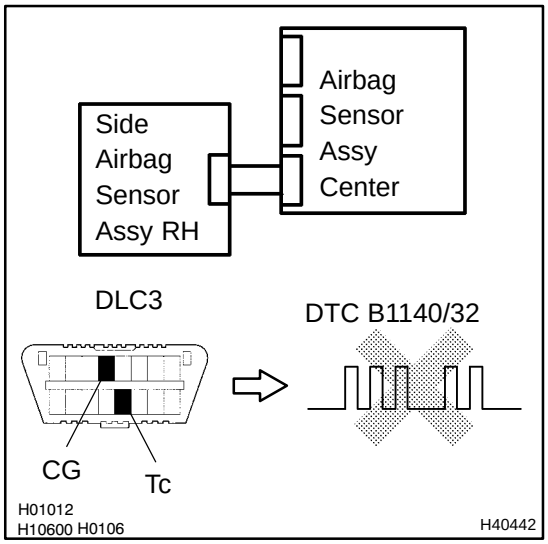
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK SIDE AIR BAG SENSOR ASSY RH

SST 09843–18040



(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 20 seconds.
(c) Clear the DTC stored in memory (See page 05–424).
(d) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(e) Turn the ignition switch to ON, and wait at least for 20 seconds.
(f) Check the DTC (See page 05–424).
OK:
DTC B1140/32 is not output.

HINT:
Codes other than code B1140/32 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

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

NG → **CONNECT CONNECTORS**

OK

3 CHECK SIDE AIRBAG SENSOR ASSY CONNECTOR

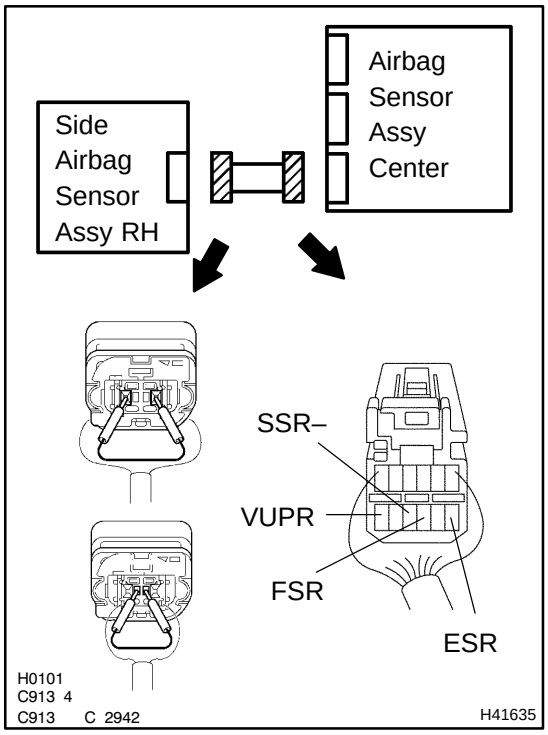
(a) Check that the connector is properly connected to the side airbag sensor assy (RH).

NG → **CONNECT CONNECTORS**

OK

4	**CHECK SIDE AIRBAG SENSOR ASSY(RH) CIRCUIT(OPEN)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)**

SST 09843–18040



(a) Disconnect the connectors between the airbag sensor assy center and the side airbag sensor assy RH.

(b) Using a service wire, connect VUPR and ESR, and FSR and SSR– of the connector (on the side airbag sensor assy side) between the airbag sensor assy center and the side airbag sensor assy (RH).

(c) For the connector (on the airbag sensor assy center side) between the side airbag sensor assy RH and the airbag sensor assy center, measure the resistance between VUPR and ESR, and between FSR and SSR–.

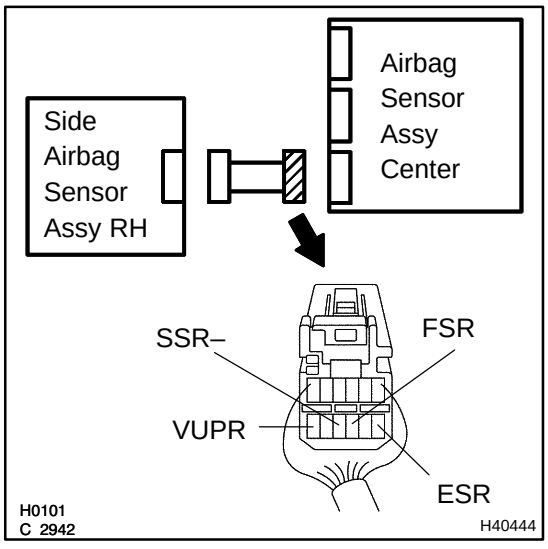
OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)**

OK

5	**CHECK SIDE AIRBAG SENSOR ASSY(RH) CIRCUIT(TO GROUND)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)**



(a) Disconnect the connection between VUPR and ESR, and between FSR and SSR–.

(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (RH), measure the resistance between each terminal of VUPR, SSR– and FSR, and body ground.

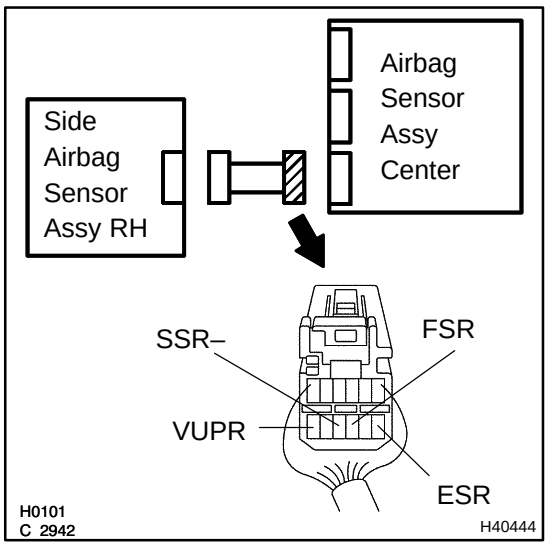
OK:

Resistance: 1MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)**

OK

6	CHECK SIDE AIRBAG SENSOR ASSY(RH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)

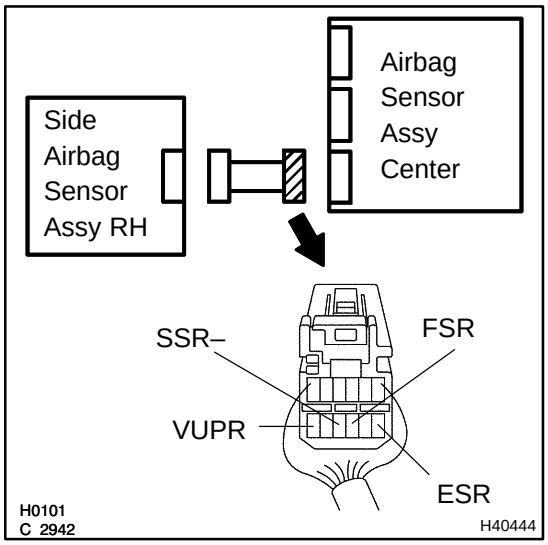


(a) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (RH), measure the resistance between VUPR and ESR, and between FSR and SSR–.
OK:
Resistance: 1MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)**

OK

7	CHECK SIDE AIRBAG SENSOR ASSY(RH) CIRCUIT(TO B+)(AIRBAG SENSOR ASSY CENTER – AIDE AIRBAG SENSOR ASSY RH)



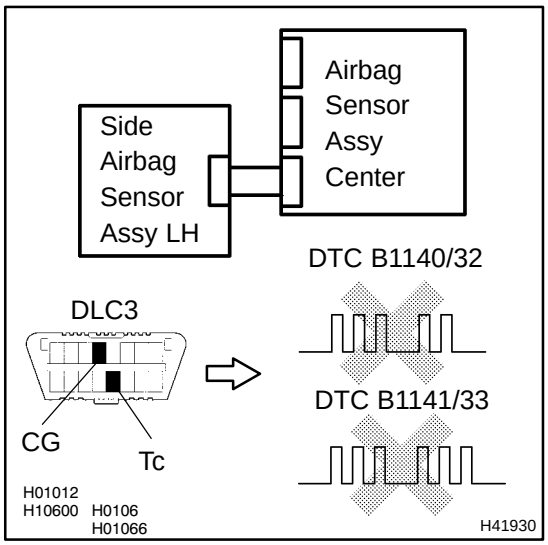
(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON.
(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (RH), measure the voltage between each terminal of VUPR, SSR– and FSR, and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY RH)**

OK

8	CHECK SIDE AIR BAG SENSOR ASSY RH

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the airbag sensor assy center connector.
(d) Interchange the side airbag sensor assy (RH) and LH and connect the connectors to them.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:
(A): DTC B1140/32 is not output.
(B): DTC B1141/33 is not output.

NG(A)	REPLACE AIR BAG SENSOR ASSY CENTER

NG(B)	REPLACE SIDE AIR BAG SENSOR ASSY RH

OK

9	USE SIMULATION METHOD TO CHECK

NG	Go to step 1

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC	B1141/33	SIDE AIRBAG SENSOR ASSY (LH) MALFUNCTION

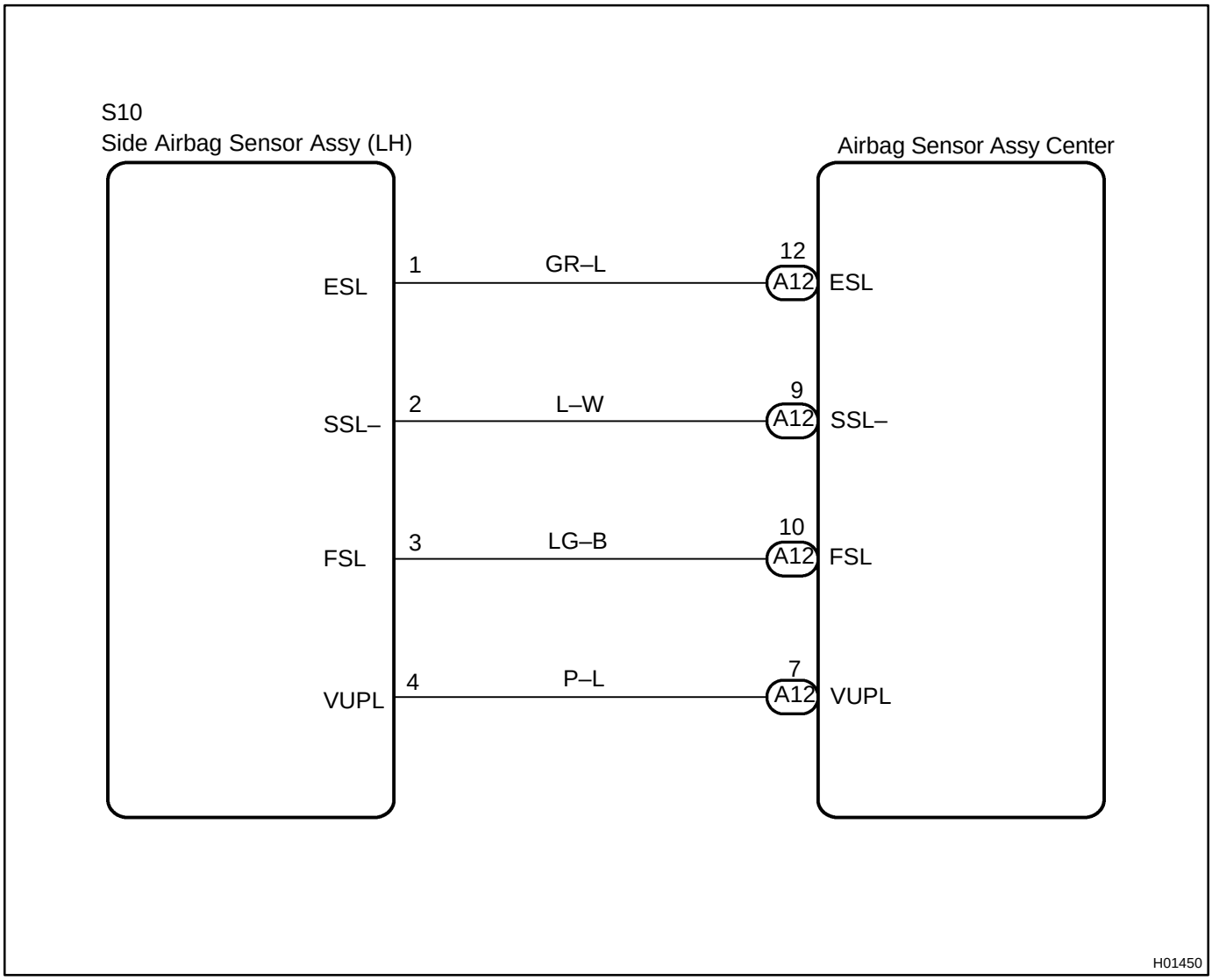
CIRCUIT DESCRIPTION

The side airbag sensor assy (LH) circuit consists of the diagnosis circuit and lateral deceleration sensor, etc. It receives signals from the lateral deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.

DTC B1141/33 is recorded when occurrence of a malfunction in the side airbag sensor assy (LH) is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1141/33	• Short circuit in wire harness of side airbag sensor LH (to ground) • Short circuit in wire harness of side airbag sensor LH (to B+) • Open circuit in wire harness of side airbag sensor LH • Side airbag sensor assy LH malfunction • Airbag sensor assy center malfunction	• Side airbag sensor assy (LH) • Airbag sensor assy center • Instrument panel wire No.3

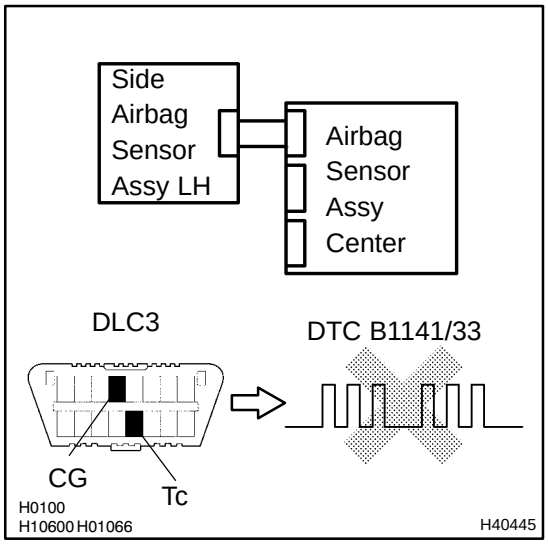
WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK SIDE AIR BAG SENSOR ASSY LH

SST 09843–18040



(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 20 seconds.
(c) Clear the DTC stored in memory (See page 05–424).
(d) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(e) Turn the ignition switch to ON, and wait at least for 20 seconds.
(f) Check the DTC (See page 05–424).
OK:
DTC B1141/33 is not output.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

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

NG → **CONNECT CONNECTORS**

OK

3	CHECK SIDE AIRBAG SENSOR ASSY CONNECTOR

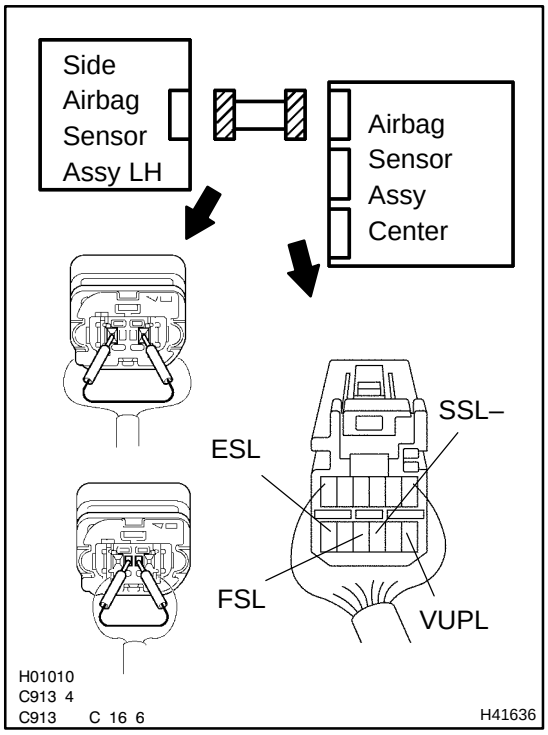
(a) Check that the connector is properly connected to the side airbag sensor assy (LH).

NG → **CONNECT CONNECTORS**

OK

4	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(OPEN)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)

SST 09843–18040



(a) Disconnect the connectors between the airbag sensor assy center and the side airbag sensor assy LH.

(b) Using a service wire, connect VUPL and ESL, and FSL and SSL– of the connector (on the side airbag sensor assy side) between the airbag sensor assy center and the side airbag sensor assy (LH).

(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the resistance between VUPL and ESL, and between FSL and SSL–.

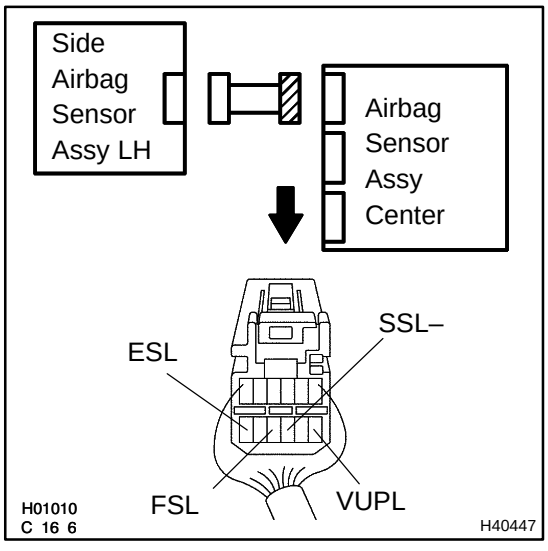
OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

5	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(TO GROUND)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)



(a) Disconnect the connection between VUPL and ESL, and between FSL and SSL–.

(b) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the resistance between each terminal of VUPL, SSL– and FSL, and body ground.

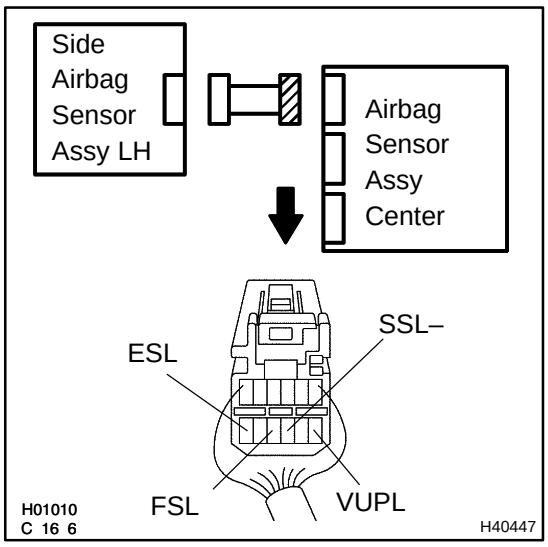
OK:

Resistance: 1MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

6	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)



(a) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the resistance between VUPL and ESL, and between FSL and SSL–.

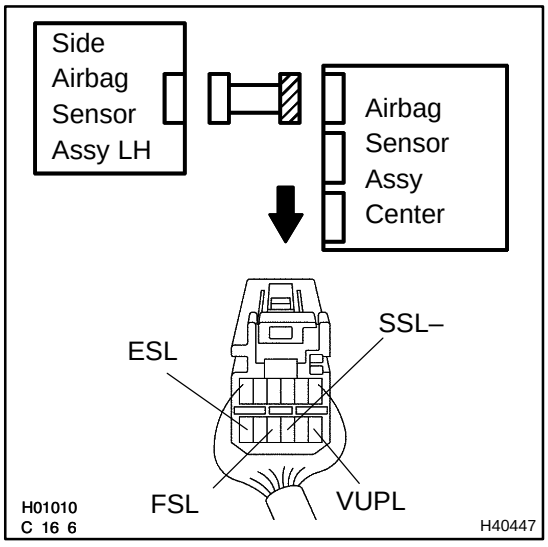
OK:

Resistance: 1MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

7	CHECK SIDE AIRBAG SENSOR ASSY(LH) CIRCUIT(TO B+)(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)



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

(b) Turn the ignition switch to ON.

(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the side airbag sensor assy (LH), measure the voltage between each terminal of VUPL, SSL– and FSL, and body ground.

OK:

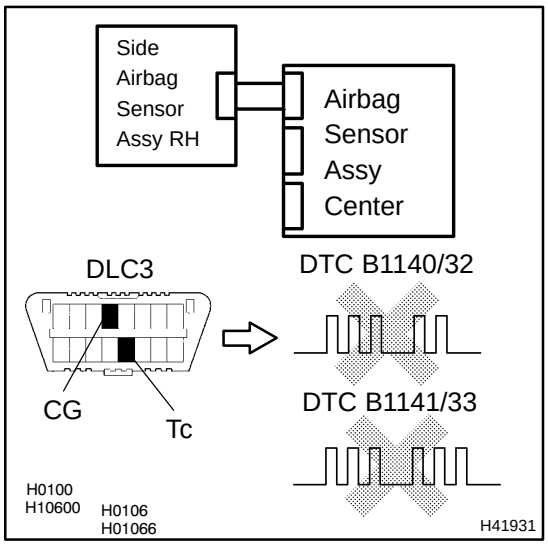
Voltage: Below 1V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.3(AIRBAG SENSOR ASSY CENTER – SIDE AIRBAG SENSOR ASSY LH)**

OK

8 CHECK SIDE AIR BAG SENSOR ASSY LH

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the airbag sensor assy center connector.
(d) Interchange the side airbag sensor assy (LH) and RH and connect the connectors to them.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:
(A): DTC B1140/32 is not output.
(B): DTC B1141/33 is not output.

NG(A) → REPLACE SIDE AIR BAG SENSOR ASSY LH

NG(B) → REPLACE AIR BAG SENSOR ASSY CENTER

OK

9 USE SIMULATION METHOD TO CHECK

NG → Go to step 1

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

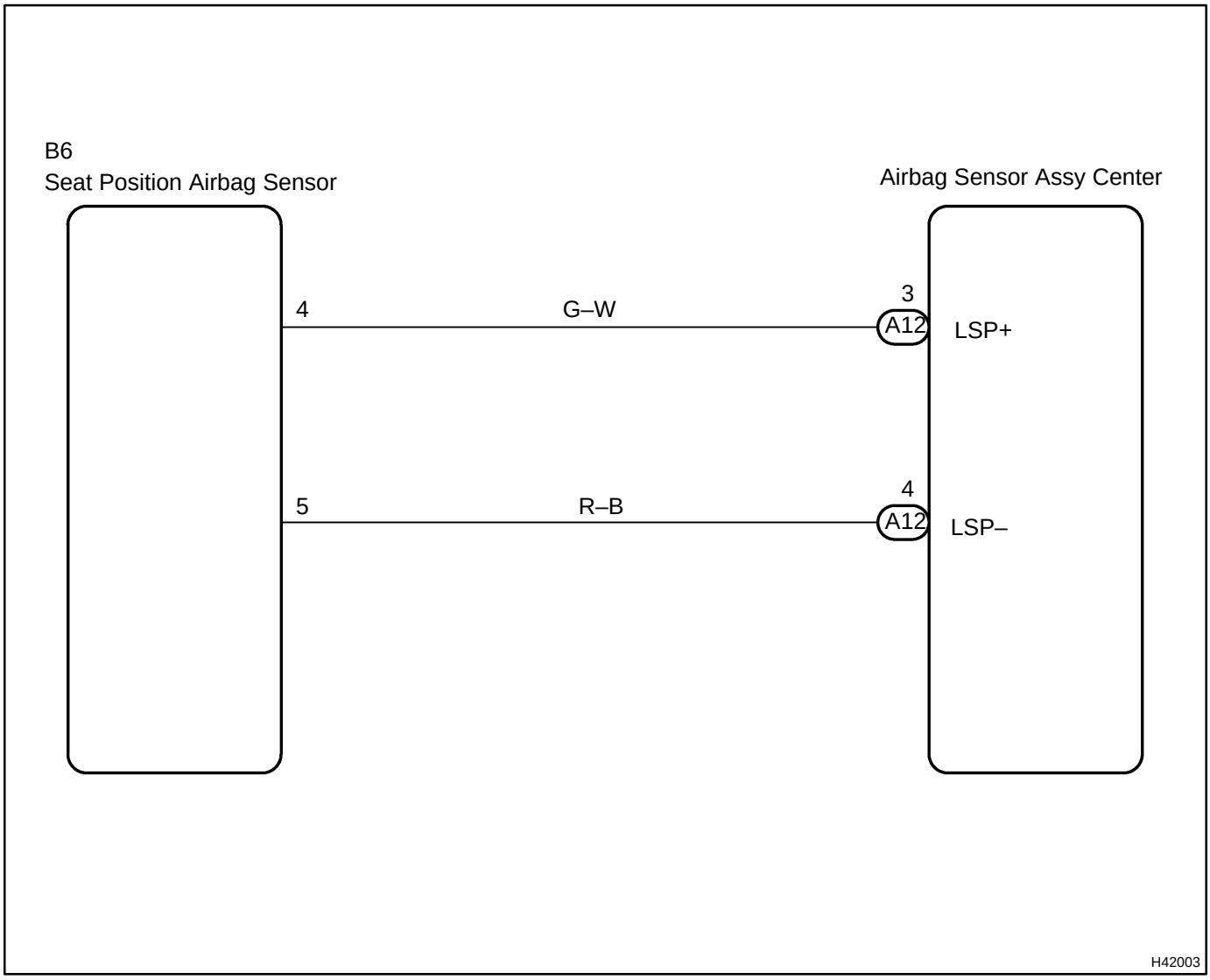
DTC	B1153/25	SEAT POSITION AIRBAG SENSOR MALFUNCTION

CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
B1153/25	• Short circuit between LSP+ wire harness and LSP– wire harness (to B+) • Short circuit between LSP+ wire harness and LSP– wire harness (to ground) • Open circuit in LSP+ wire harness or LSP– wire harness • Seat position airbag sensor malfunction • Airbag sensor assy center malfunction	• Seat position airbag sensor • Airbag sensor assy center • Wire harness (Seat position airbag sensor – Front seat inner belt assy) • Instrument panel wire No.3

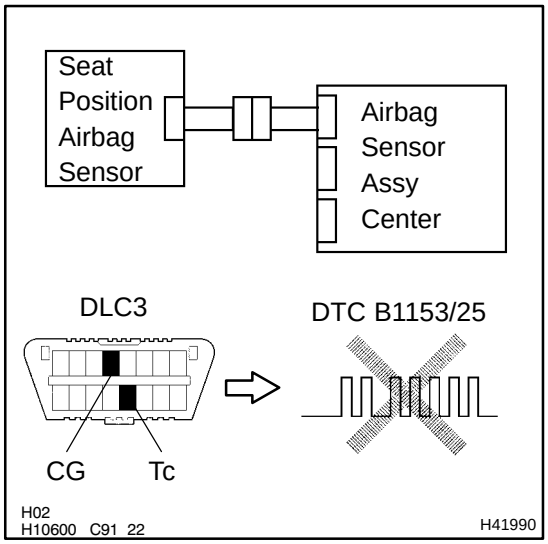
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK SEAT POSITION AIR BAG SENSOR

SST 09843–18040



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

OK:

DTC B1153/25 is not output.

HINT:

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

OK → **USE SIMULATION METHOD TO CHECK**

NG

2 CHECK AIRBAG SENSOR ASSY CENTER CONNECTOR

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

NG → **CONNECT CONNECTORS**

OK

3 CHECK SEAT POSITION AIRBAG SENSOR CONNECTOR

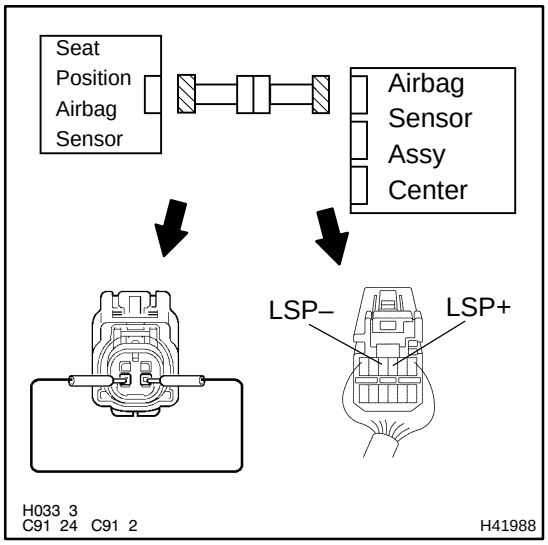
(a) Check that the connector is properly connected to the seat position airbag sensor.

NG → **CONNECT CONNECTORS**

OK

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

SST 09843–18040



(a) Disconnect the connectors between the airbag sensor assy center and the seat position airbag sensor.

(b) Using a service wire, connect LSP+ and LSP– of the connector (on the seat position airbag sensor side) between the airbag sensor assy center and the seat position airbag sensor.

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

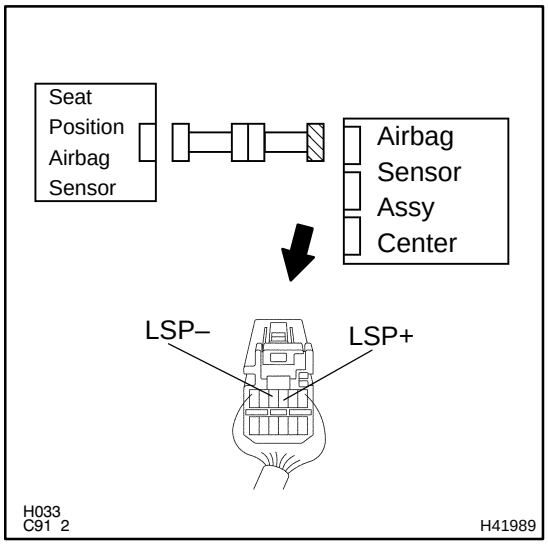
OK:

Resistance: Below 1 Ω

NG → **Go to step 10**

OK

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



(a) Release the service wire of the connector (on the seat position airbag sensor side) between the seat position airbag sensor and the airbag sensor assy center.

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

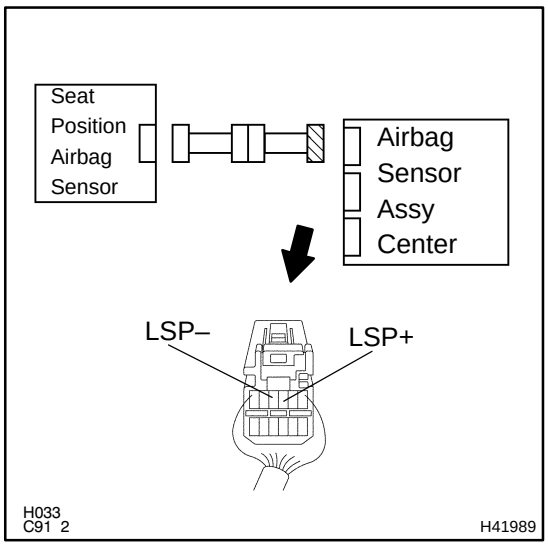
OK:

Resistance: 1 MΩ or Higher

NG → **Go to step 11**

OK

6	CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT(AIRBAG SENSOR ASSY CENTER – SEAT POSITION AIRBAG SENSOR)



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

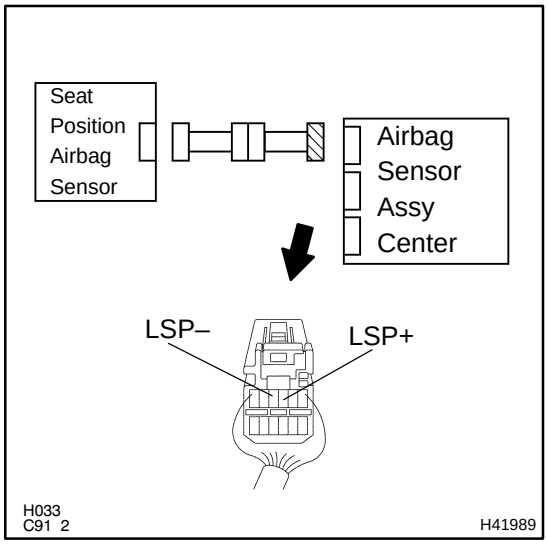
OK:

Resistance: 1 MΩ or Higher

NG → **Go to step 12**

OK

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



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

(b) Turn the ignition switch to ON.

(c) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the voltage between the body ground and each of LSP+ and LSP–.

OK:

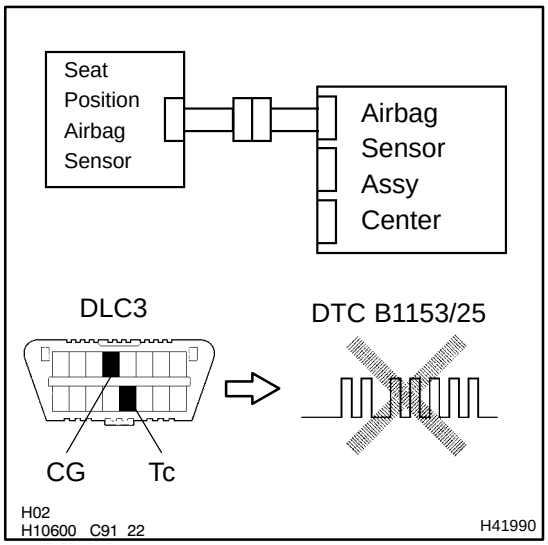
Voltage: Below 1 V

NG → **Go to step 13**

OK

8 CHECK SEAT POSITION AIR BAG SENSOR

SST 09843–18040



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

OK:

DTC D1153/25 is not output.

HINT:

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

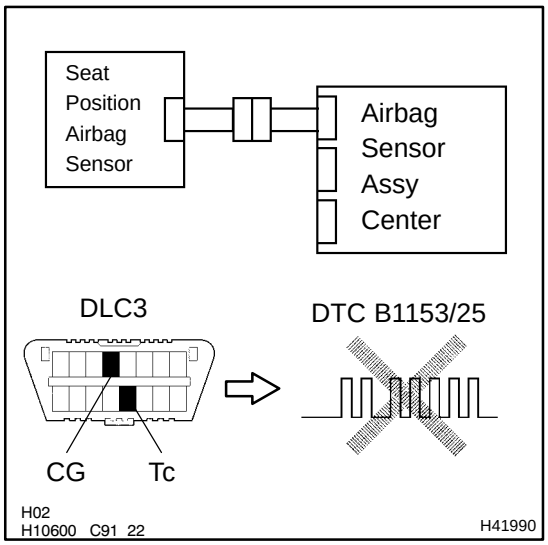
NG → **REPLACE SEAT POSITION AIR BAG SENSOR**

OK

USE SIMULATION METHOD TO CHECK

9 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



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

OK:

DTC D1153/25 is not output.

HINT:

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

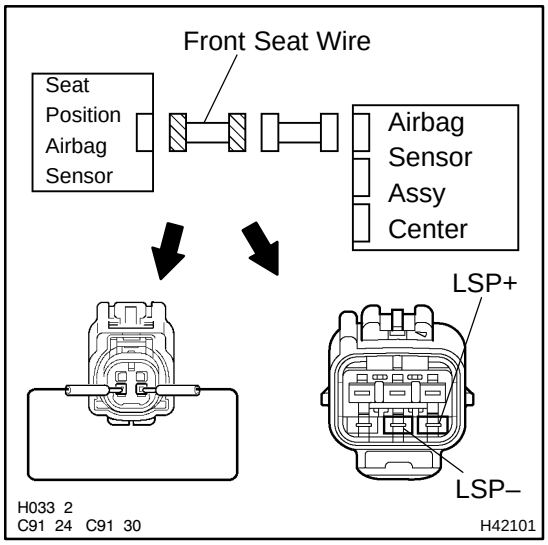
NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

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

SST 09843–18040



(a) Disconnect the front seat wire connector on the airbag sensor assy center side.

(b) For the front seat wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position airbag sensor, measure the resistance between LSP+ and LSP–.

OK:

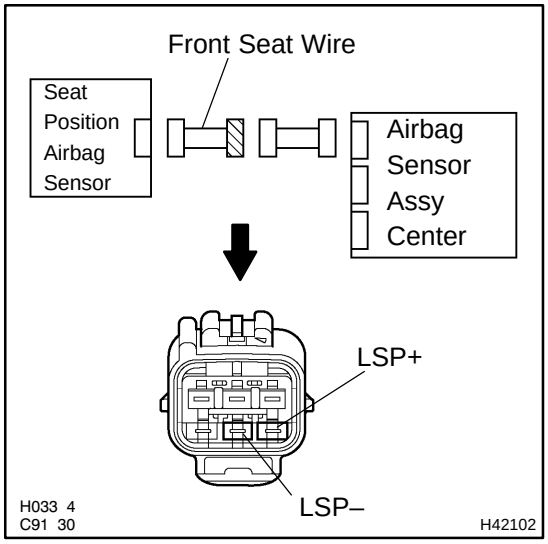
Resistance: Below 1 Ω

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

OK

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

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



(a) Disconnect the front seat wire connector on the airbag sensor assy center side.

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

OK:

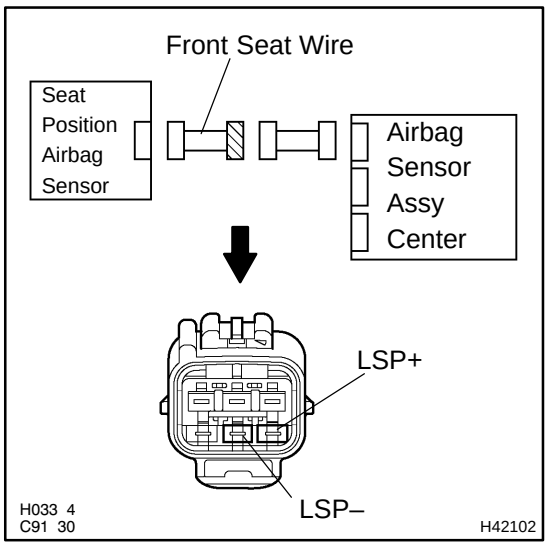
Resistance: 1 MΩ or Higher

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

OK

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

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



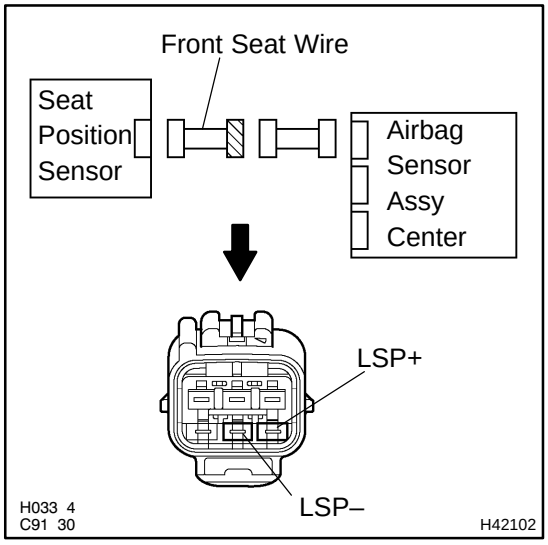
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the front seat wire connector on the airbag sensor assy center side.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) For the front seat wire connector (on the airbag sensor assy center side) between the front seat inner belt assy and the seat position airbag sensor, measure the voltage between body ground and each of LSP+ and LSP–.
OK:
Voltage: Below 1 V

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

OK

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

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



(a) Turn the ignition switch to LOCK.
(b) For the front seat wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the seat position sensor, measure the resistance between LSP+ and LSP–.
OK:
Resistance: 1 MΩ or Higher

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

OK

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

DTC	B1156/15	FRONT AIRBAG SENSOR (RH) MALFUNCTION

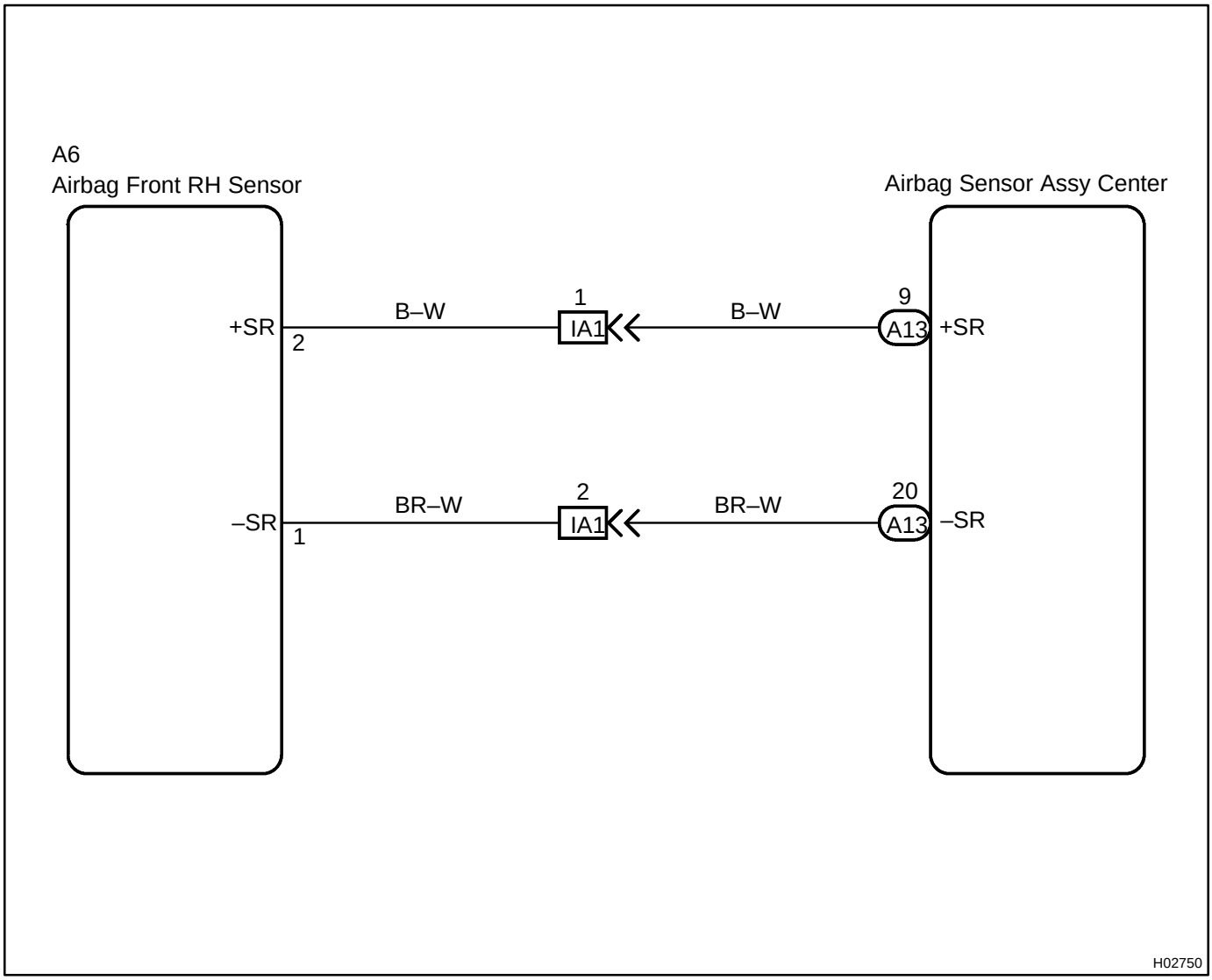
DTC	B1157/15	FRONT AIRBAG SENSOR (RH) MALFUNCTION

CIRCUIT DESCRIPTION

The airbag front RH sensor circuit consists of the airbag sensor assy center and airbag front RH sensor. DTC B1156/B1157/15 is recorded when a malfunction is detected in the airbag front RH sensor circuit.

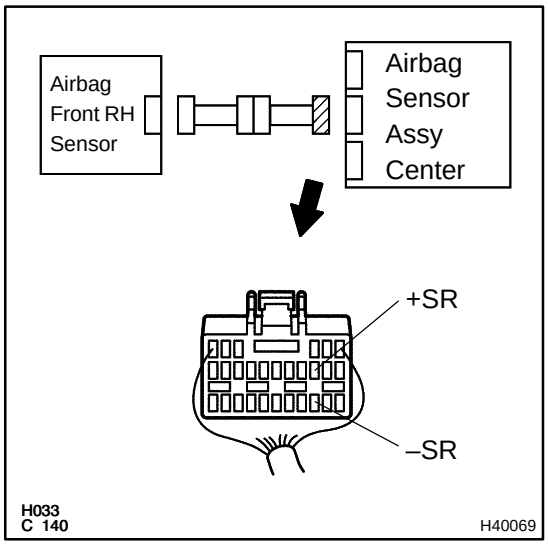
DTC No.	DTC Detecting Condition	Trouble Area
B1156/B1157/15	• Airbag front RH sensor malfunction	• Airbag front RH sensor • Airbag sensor assy center • Instrument panel wire • Engine room main wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER – AIRBAG FRONT RH SENSOR)

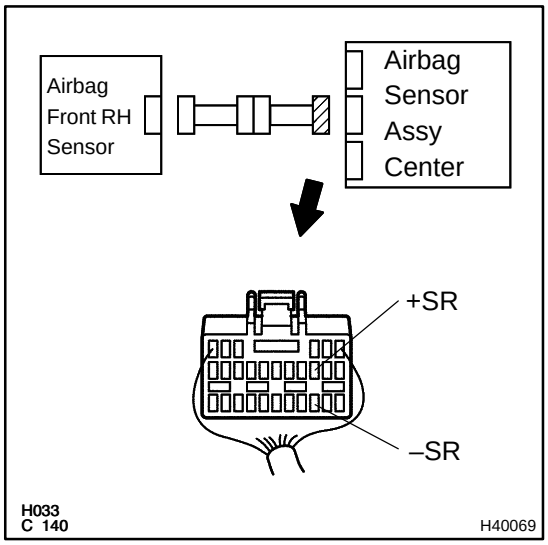


(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag front RH sensor and the airbag sensor assy center.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the airbag sensor assy center side) between the airbag front RH sensor and the airbag sensor assy center, measure the voltage between body ground and each of +SR and –SR.
OK:
Voltage: Below 1 V

NG → **Go to step 6**

OK

2	CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO GROUND)(AIRBAG SENSOR ASSY – AIRBAG FRONT RH SENSOR)



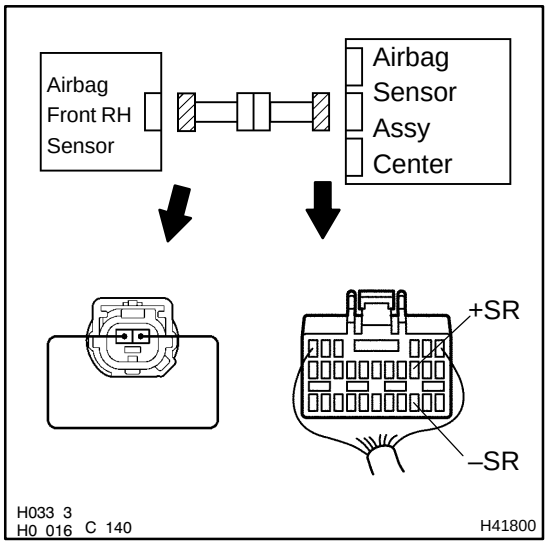
(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) For the connector (on the airbag sensor assy center side) between the airbag front RH sensor and the airbag sensor assy center, measure the resistance between body ground and each of +SR and –SR.
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 7**

OK

3	CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT(OPEN)(AIRBAG SENSOR ASSY CENTER – AIRBAG FRONT RH SENSOR)

SST 09843–18040



(a) Using a service wire, connect +SR and –SR of the connector (on the airbag front RH sensor side) between the airbag front RH sensor and the airbag sensor assy center.

(b) For the connector (on the airbag sensor assy center side) between the airbag front RH sensor and the airbag sensor assy center, measure the resistance between +SR and –SR.

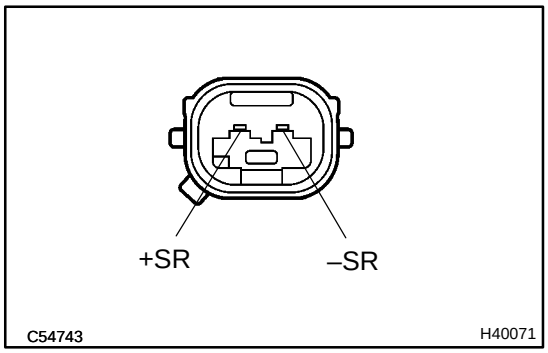
OK:

Resistance: Below 1 Ω

NG → **Go to step 8**

OK

4	INSPECT AIR BAG FRONT RH SENSOR



(a) For the connector of the airbag front RH sensor, measure the resistance between +SR and –SR.

OK:

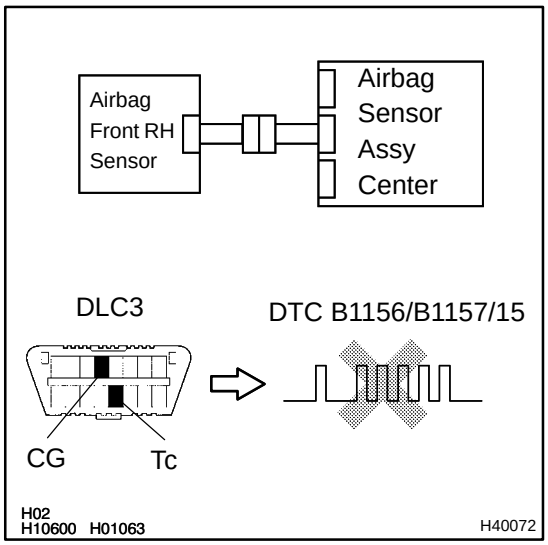
Resistance: 820 Ω

NG → **REPLACE AIR BAG FRONT RH SENSOR**

OK

5 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



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

OK:

DTC B1156/B1157/15 is not output.

HINT:

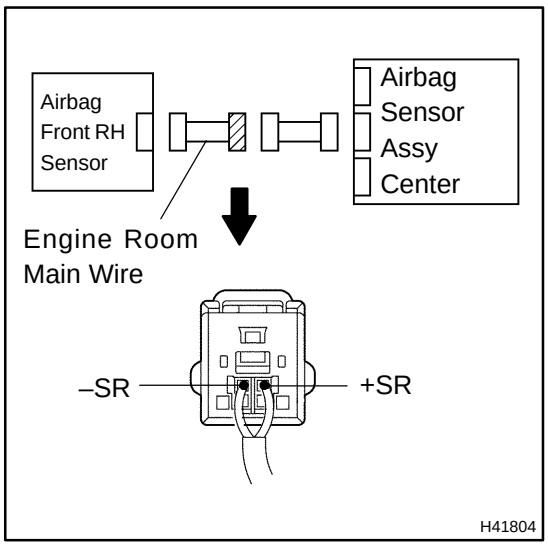
Codes other than code B1156/B1157/15 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

6	CHECK ENGINE ROOM MAIN WIRE HARNESS (TO B+)(CONNECTOR – AIRBAG FRONT RH SENSOR)



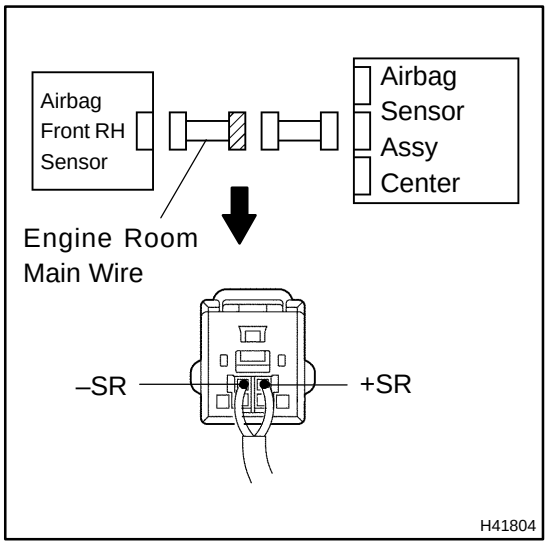
(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connector between the engine room main wire and the instrument panel wire.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON.
(f) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag front RH sensor, measure the voltage between body ground and each of +SR and –SR.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

7	CHECK ENGINE ROOM MAIN WIRE HARNESS (TO GROUND)(CONNECTOR – AIRBAG FRONT RH SENSOR)



(a) Disconnect the connectors between the engine room main wire and the instrument panel wire.
(b) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag front RH sensor, measure the resistance between body ground and each of +SR and –SR.
OK:
Resistance: 1 MΩ or Higher

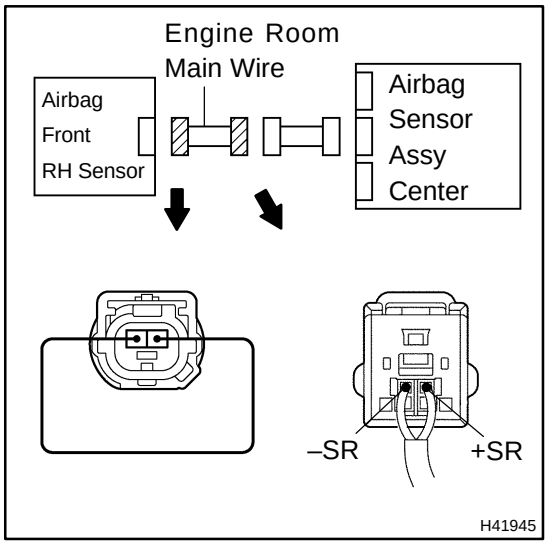
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

8	CHECK ENGINE ROOM MAIN WIRE HARNESS(OPEN)(CONNECTOR – AIRBAG FRONT RH SENSOR)

SST 09843–18040



(a) Disconnect the connectors between the engine room main wire and the instrument panel wire.

(b) Using a service wire, connect +SR and –SR of the engine room main wire connector (on the airbag front RH sensor side) between the airbag sensor assy center and the airbag front RH sensor.

(c) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag front RH sensor, measure the resistance between the +SR and –SR.

OK:

Resistance: Below 1 Ω

NG	REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

DTC	B1158/16	FRONT AIRBAG SENSOR (LH) MALFUNCTION

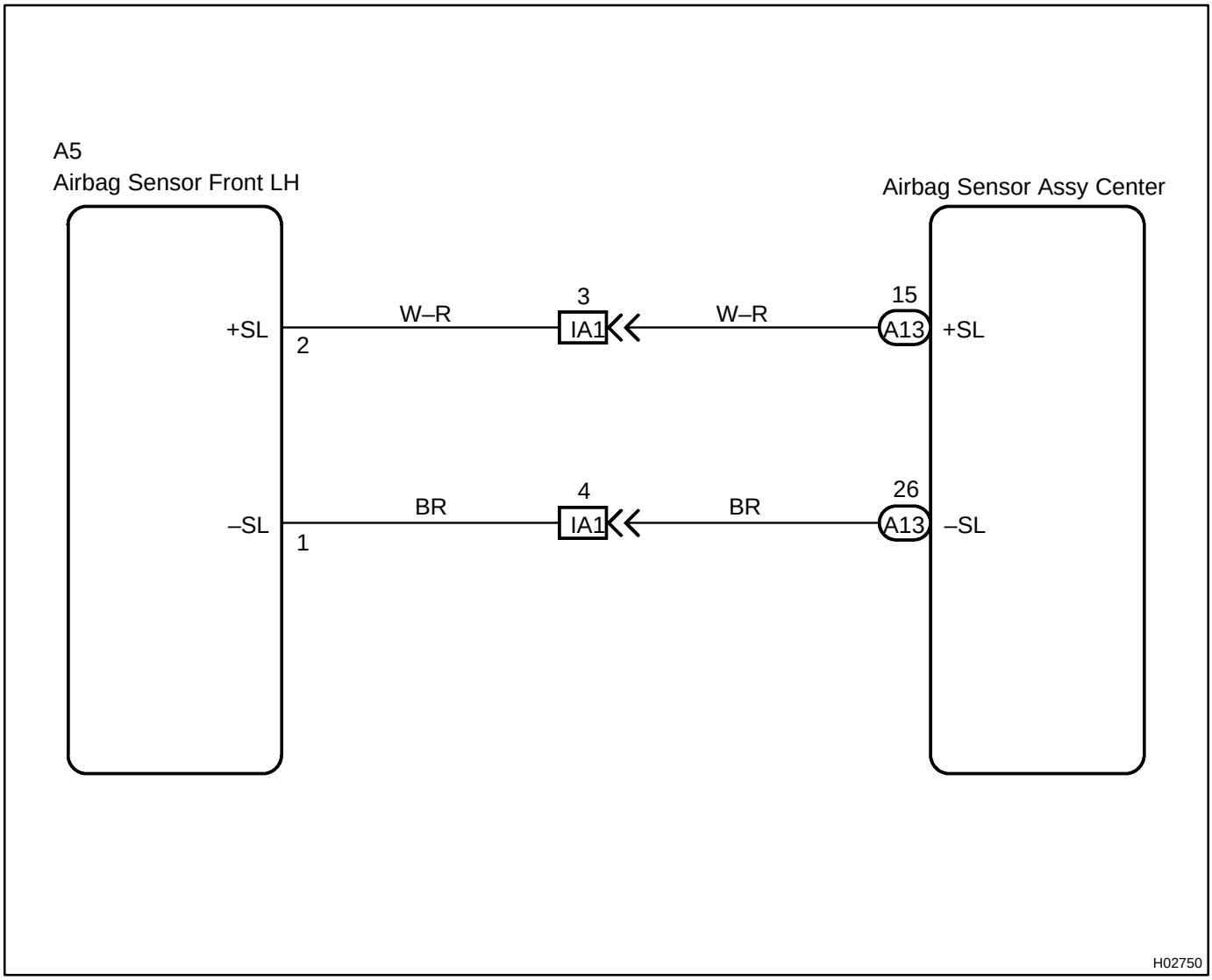
DTC	B1159/16	FRONT AIRBAG SENSOR (LH) MALFUNCTION

CIRCUIT DESCRIPTION

The airbag sensor front LH circuit consists of the airbag sensor assy center and airbag sensor front LH. DTC B1158/B1159/16 is recorded when malfunction is detected in the airbag sensor front LH circuit.

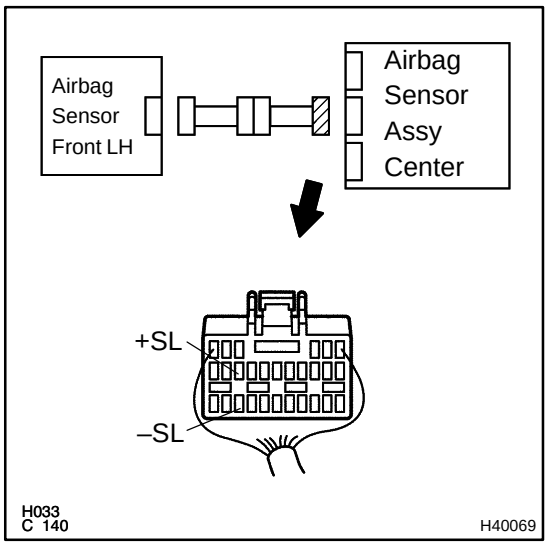
DTC No.	DTC Detecting Condition	Trouble Area
B1158/B1159/16	• Airbag sensor front LH malfunction	• Airbag sensor front LH • Airbag sensor assy center • Instrument panel wire • Engine room main wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (TO B+)(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR FRONT LH)

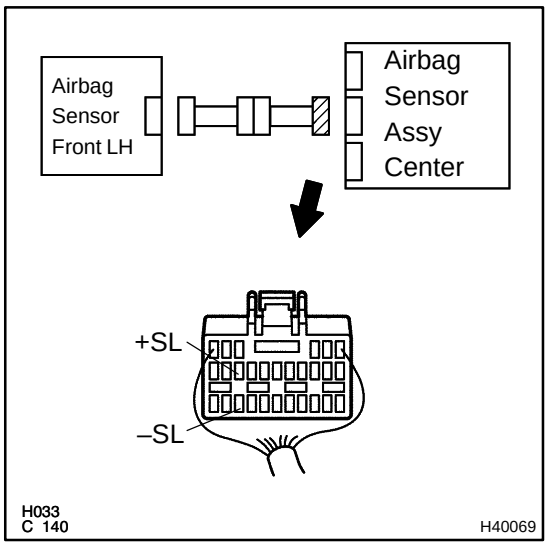


(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the airbag sensor front LH.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the airbag sensor assy center side) between the airbag sensor front LH and the airbag sensor assy center, measure the voltage between body ground and each of +SL and –SL.
OK:
Voltage: Below 1 V

NG → **Go to step 6**

OK

2	CHECK FRONT AIRBAG SENSOR(LH) CIRCUIT(TO GROUND)(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR FRONT LH)

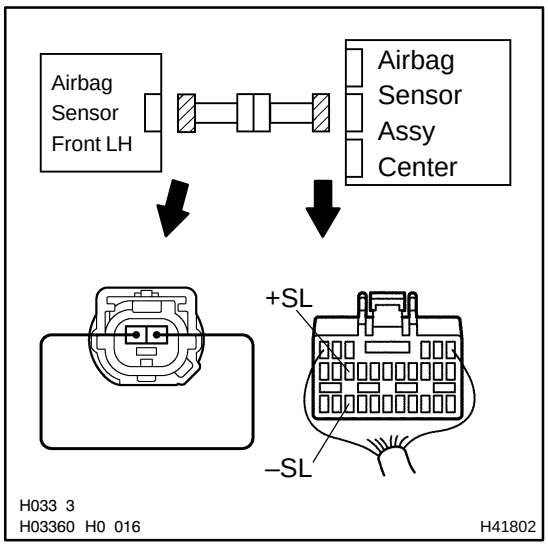


(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) For the connector (on the airbag sensor assy center side) between the airbag sensor front LH and the airbag sensor assy center, measure the resistance between body ground and each of +SL and –SL.
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 7**

OK

3	CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(OPEN)(AIRBAG SENSOR ASSY CENTER – AIRBAG SENSOR FRONT LH)



(a) Using a service wire, connect +SL and –SL of the connector (on the airbag sensor front LH side) between the airbag sensor assy center and the airbag sensor front LH.

(b) For the connector (on the airbag sensor assy center side) between the airbag sensor front LH and the airbag sensor assy center, measure the resistance between +SL and –SL.

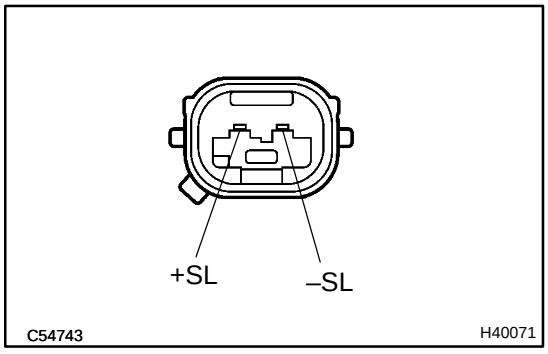
OK:

Resistance: Below 1 Ω

NG → **Go to step 8**

OK

4	INSPECT AIR BAG SENSOR FRONT LH



(a) For the connector of the airbag sensor front LH, measure the resistance between +SL and –SL.

OK:

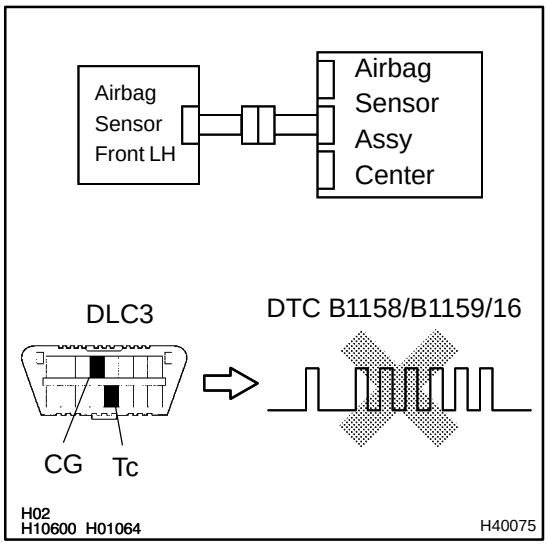
Resistance: 820 Ω

NG → **REPLACE AIR BAG SENSOR FRONT LH**

OK

5 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



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

OK:

DTC B1158/B1159/16 is not output.

HINT:

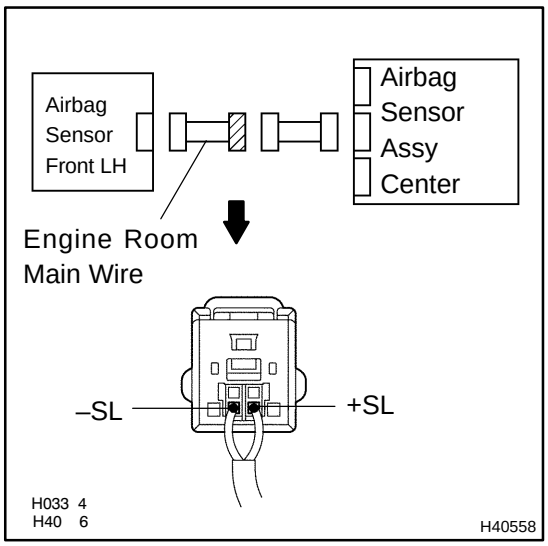
Codes other than code B1158/B1159/16 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK

6	CHECK ENGINE ROOM MAIN WIRE HARNESS (TO B+)(CONECTOR – AIRBAG SENSOR FRONT LH)



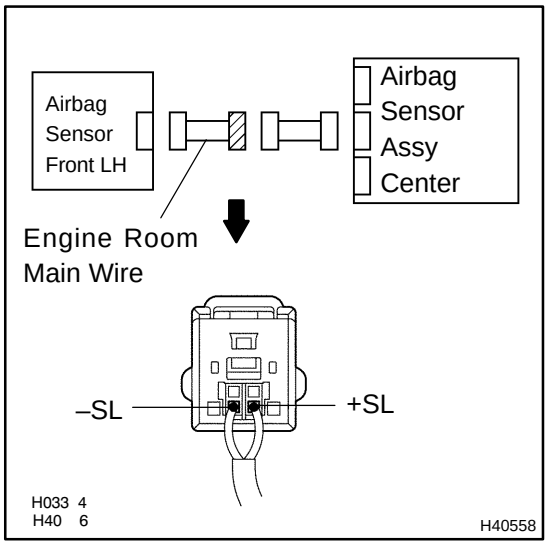
(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connector between the engine room main wire and the instrument panel wire.
(d) Connect the negative (–) terminal to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON.
(f) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the voltage between body ground and each of +SL and –SL.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

7	CHECK ENGINE ROOM MAIN WIRE HARNESS (TO GROUND)(CONNECTOR – AIRBAG SENSOR FRONT LH)



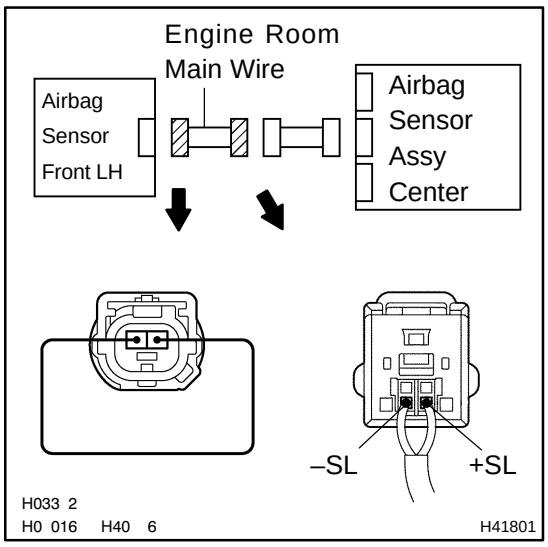
(a) Disconnect the connectors between the engine room main wire and the instrument panel wire.
(b) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between body ground and each of +SL and –SL.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

8	CHECK ENGINE ROOM MAIN WIRE HARNESS(OPEN)(CONNECTOR – AIRBAG SENSOR FRONT LH)



(a) Disconnect the connectors between the engine room main wire and the instrument panel wire.

(b) Using a service wire, connect +SL and –SL of the engine room main wire connector (on the airbag sensor front LH side) between the airbag sensor assy center and the airbag sensor front LH.

(c) For the engine room main wire connector (on the airbag sensor assy center side) between the airbag sensor assy center and the airbag sensor front LH, measure the resistance between +SL and –SL.

OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

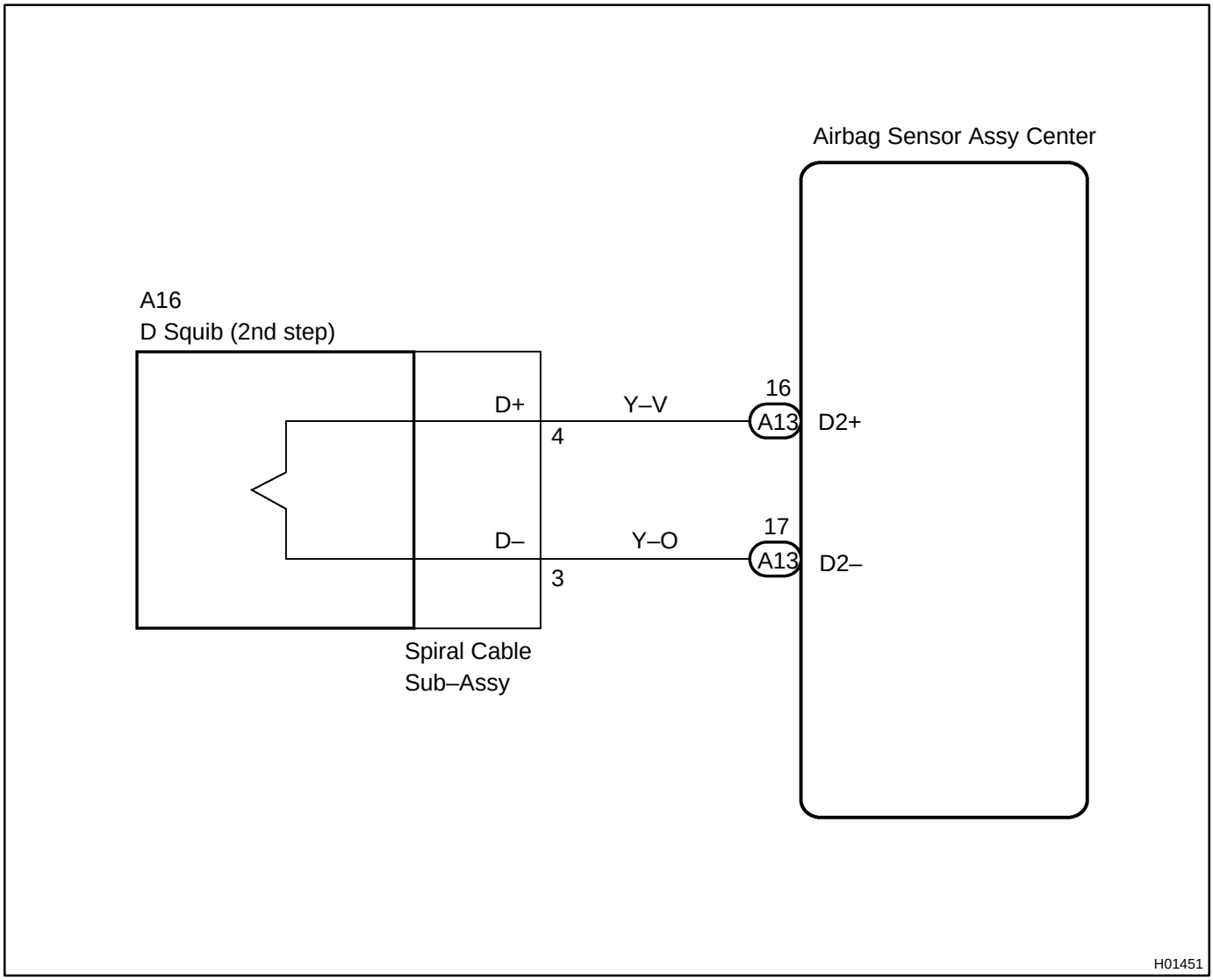
DTC B1180/17 SHORT IN D SQUIB (2ND STEP) CIRCUIT

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1180/17 is recorded when a short is detected in the D squib circuit (2nd step).

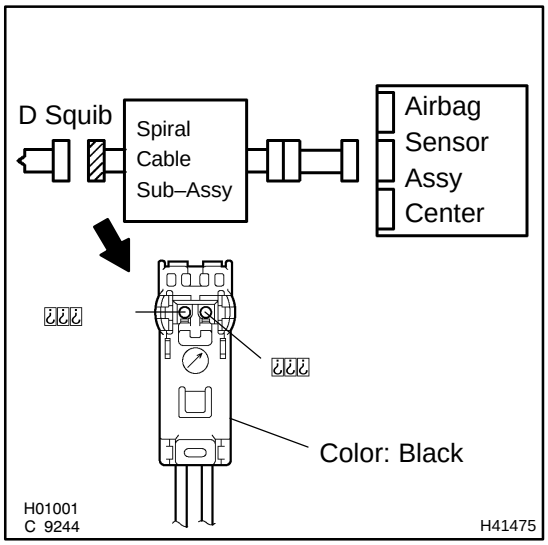
DTC No.	DTC Detecting Condition	Trouble Area
B1180/17	• Short circuit between D2+ wire harness and D2– wire harness of squib (2nd step) • D squib (2nd step) malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib, 2nd step) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



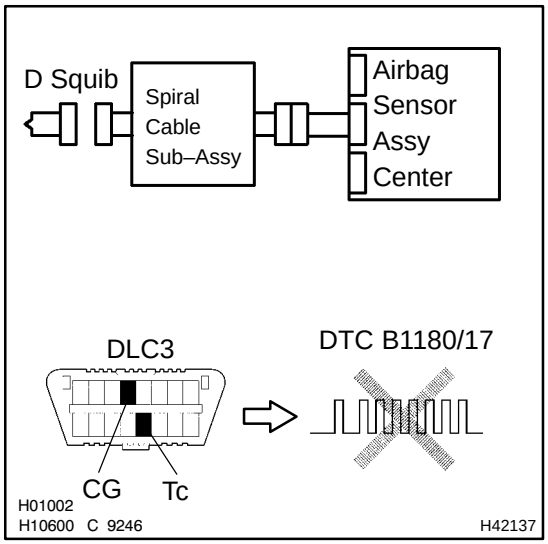
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the horn button assy.
(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the spiral cable sub–assy (See page 05–424).
(d) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D2+ and D2–.
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 4**

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B1180/17 is not output.

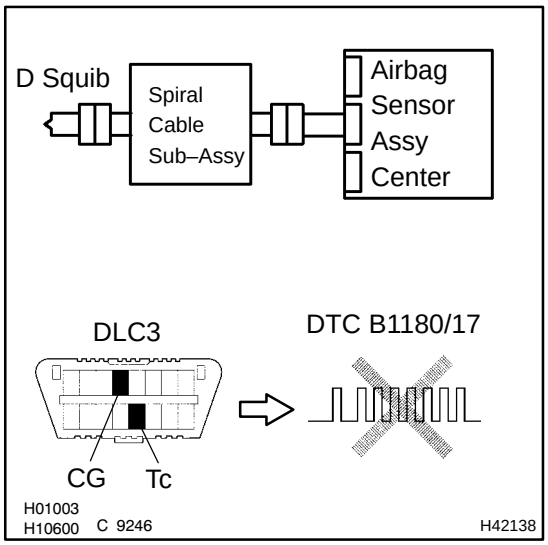
HINT:
Codes other than code B1180/17 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B1180/17 is not output.

HINT:

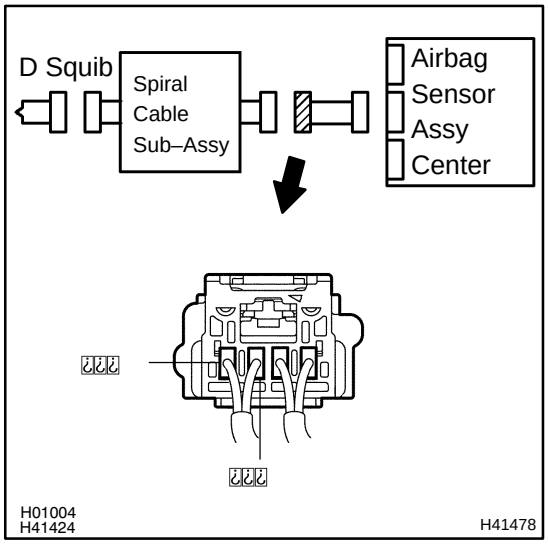
Codes other than code B1180/17 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)



(a) Disconnect the connector of the instrument panel wire.
(b) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the spiral cable sub–assy (See page 05–424).
(c) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the resistance between D2+ and D2–.

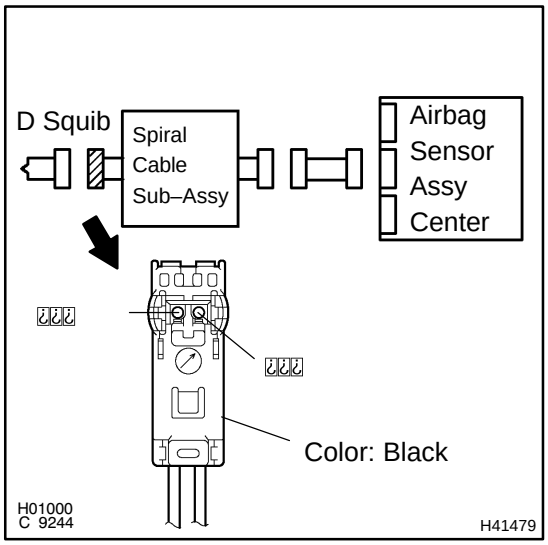
OK:

Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

5	CHECK SPIRAL CABLE SUB–ASSY



(a) Release the airbag activation prevention mechanism of the spiral cable sub–assy connector on the airbag sensor assy center side (See page 05–424).

(b) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D2+ and D2–.

OK:

Resistance: 1 MΩ or Higher

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B1181/18 OPEN IN D SQUIB (2ND STEP) CIRCUIT

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy. It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1181/18 is recorded when an open is detected in the D squib circuit (2nd step).

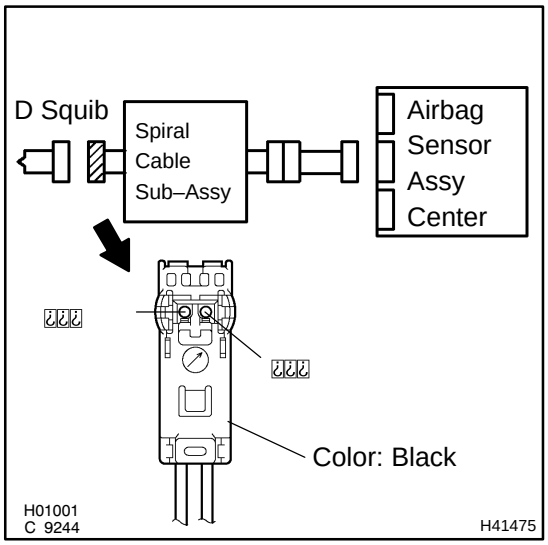
DTC No.	DTC Detecting Condition	Trouble Area
B1181/18	• Open circuit in D+ wire harness or D– wire harness of squib • D squib (2nd step) malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib, 2nd step) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–554.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



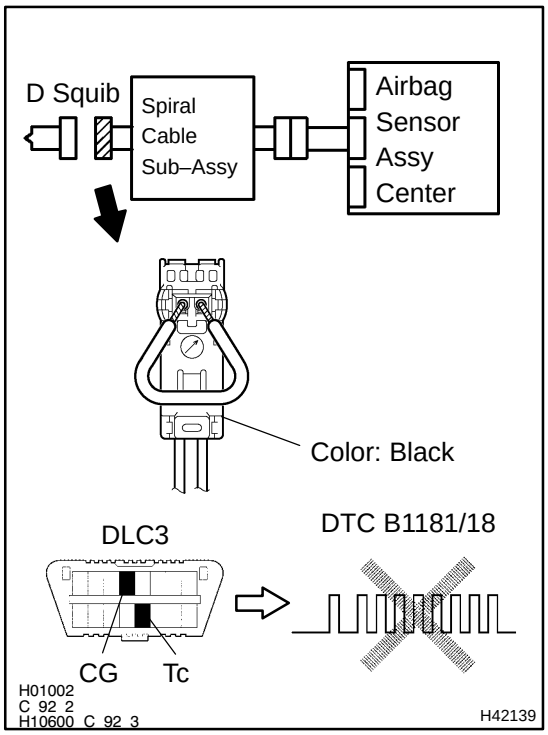
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the horn button assy and the airbag sensor assy center.
(c) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D2+ and D2–.
OK:
Resistance: Below 1 Ω

NG → **Go to step 4**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect D2+ and D2– of the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B1181/18 is not output.

HINT:

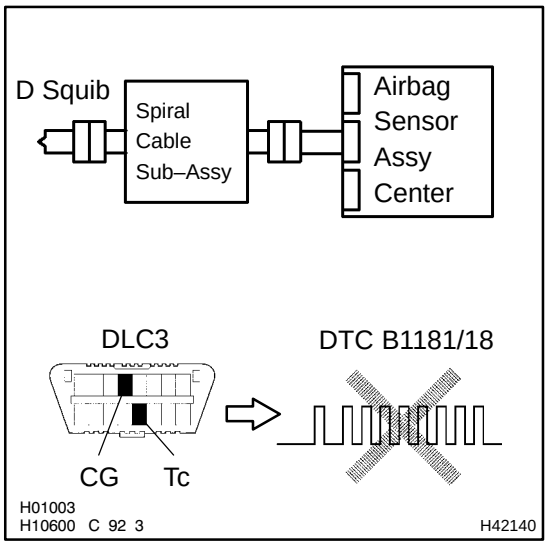
Codes other than code B1181/18 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B1181/18 is not output.

HINT:

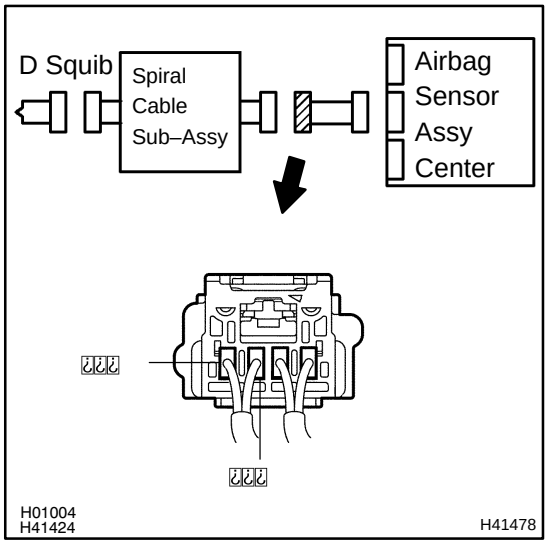
Codes other than code B1181/18 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

USE SIMULATION METHOD TO CHECK

4 CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)



(a) Disconnect the connector of the instrument panel wire.
(b) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the resistance between D2+ and D2–.

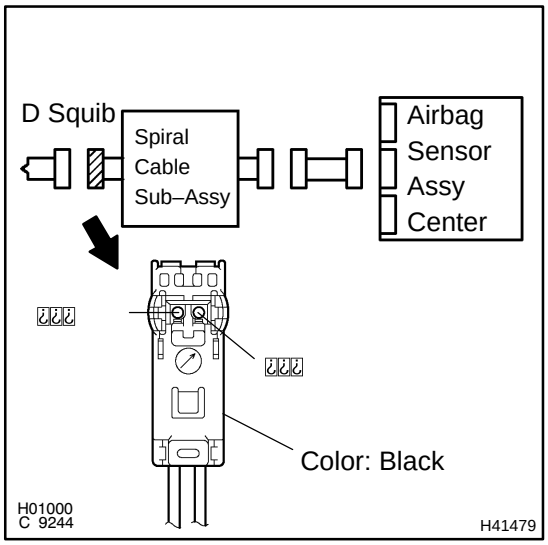
OK:

Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

5	CHECK SPIRAL CABLE SUB–ASSY



(a) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D2+ and D2–.
OK:
Resistance: Below 1 Ω

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1182/19	SHORT IN D SQUIB (2ND STEP) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The D squib (2nd step) circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy.
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1182/19 is recorded when a ground short is detected in the D squib (2nd step) circuit.

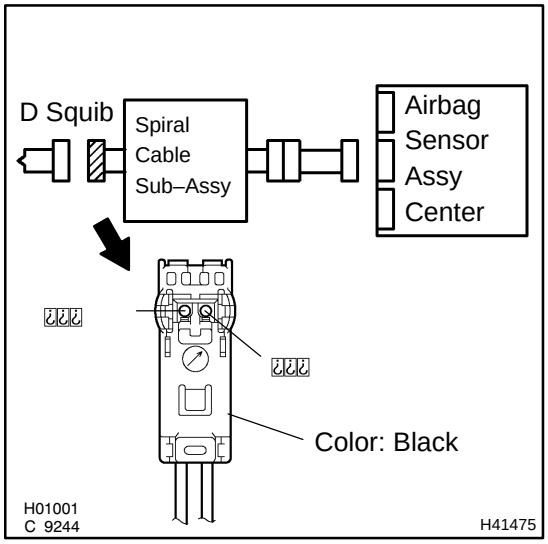
DTC No.	DTC Detecting Condition	Trouble Area
B1182/19	• Short circuit in D squib (2nd step) wire harness (to ground) • D squib (2nd step) malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib, 2nd step) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–554.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



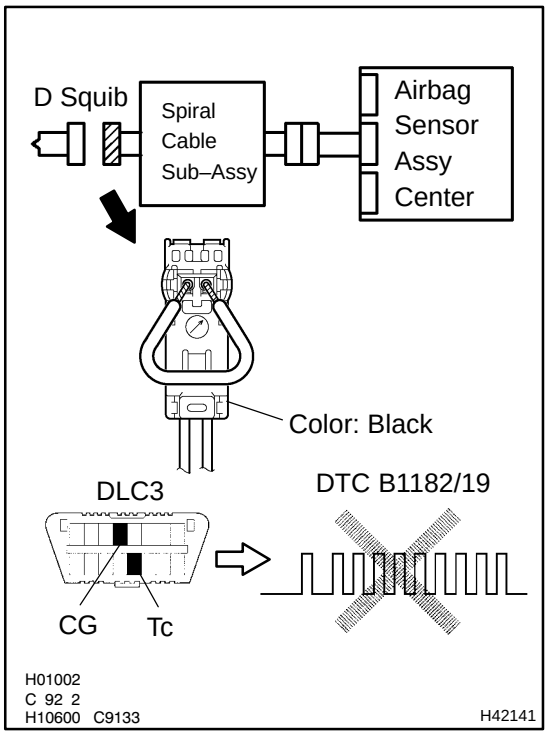
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connector between the airbag sensor assy center and the horn button assy.
(c) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D2+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **Go to step 5**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect D2+ and D2– of the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait t least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B1182/19 is not output.

HINT:

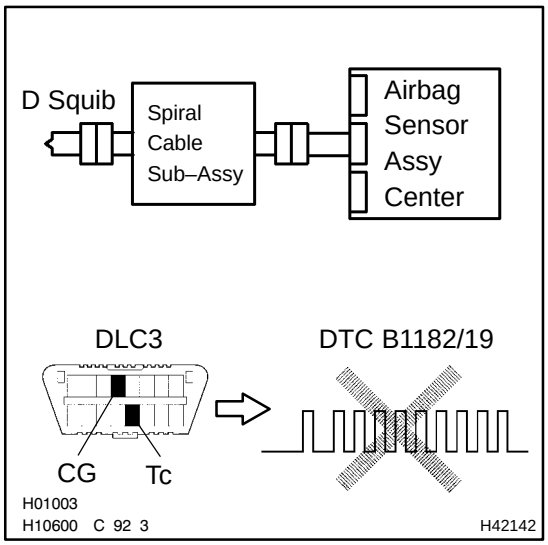
Codes other than code B1182/19 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B1182/19 is not output.

HINT:

Codes other than code B1182/19 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

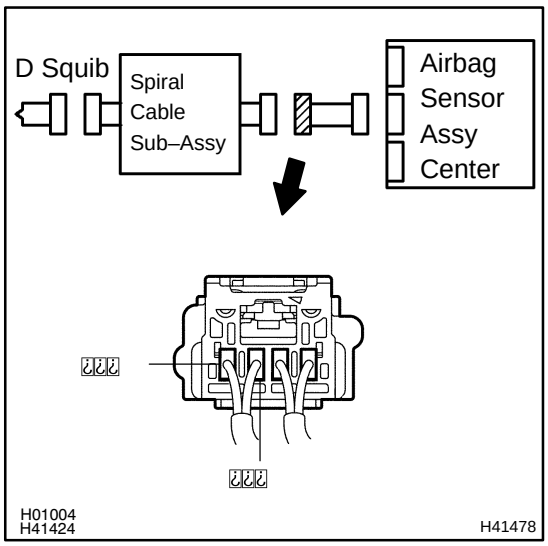
4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

5	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)

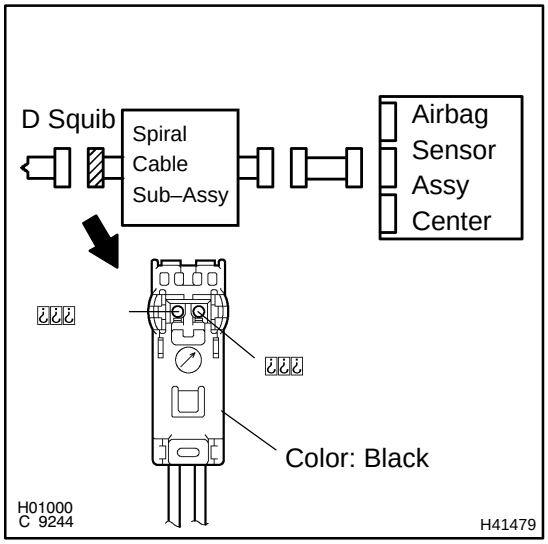


(a) Disconnect the connector of the instrument panel wire.
(b) For the connector (on the spiral cable sub–assy side) between the airbag sensor assy center and the spiral cable sub–assy, measure the resistance between D2+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

6	CHECK SPIRAL CABLE SUB–ASSY



(a) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the resistance between D2+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC	B1183/22	SHORT IN D SQUIB (2ND STEP) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The D squib (2nd step) circuit consists of the airbag sensor assy center, spiral cable sub–assy and horn button assy.
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1183/22 is recorded when a B+ short is detected in the D squib (2nd step) circuit.

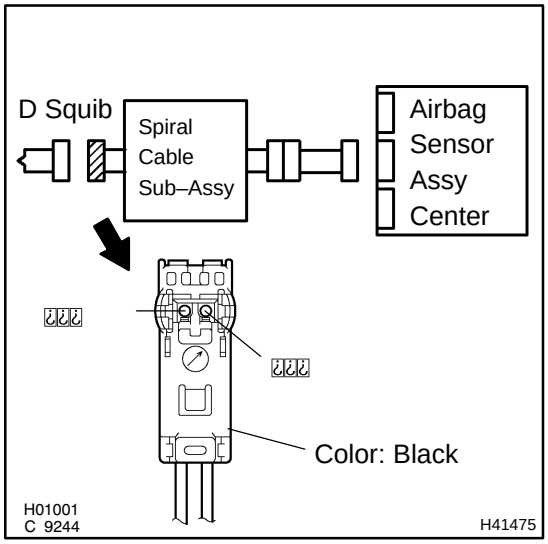
DTC No.	DTC Detecting Condition	Trouble Area
B1183/22	• Short circuit in D squib (2nd step) wire harness (to B+) • D squib (2nd step) malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib, 2nd step) • Spiral cable sub–assy • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–424.

CIRCUIT INSPECTION

1	CHECK D SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



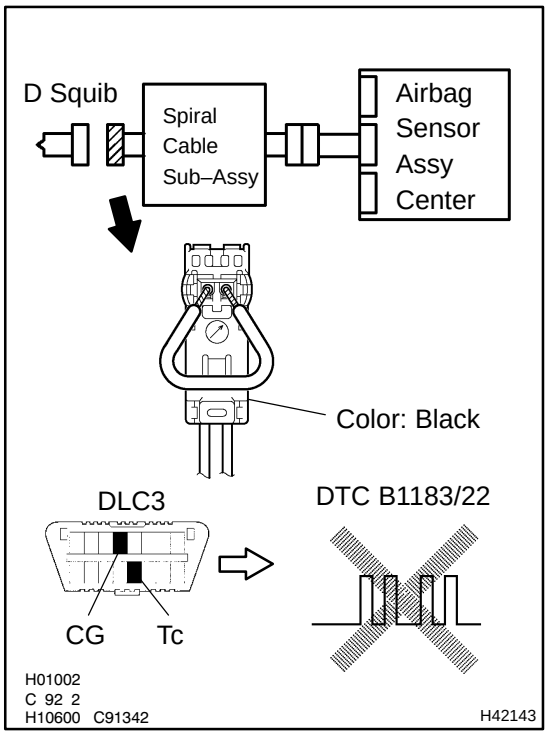
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the horn button assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the voltage between D2+ and body ground.
OK:
Voltage: Below 1 V

NG → **Go to step 5**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect D2+ and D2– of the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B1183/22 is not output.

HINT:

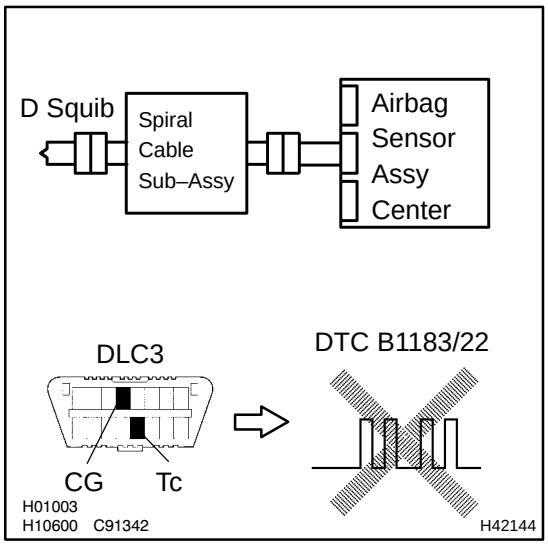
Codes other than code B1183/22 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK D SQUIB

SST 09843–18040



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

OK:

DTC B1183/22 is not output.

HINT:

Codes other than code B1183/22 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

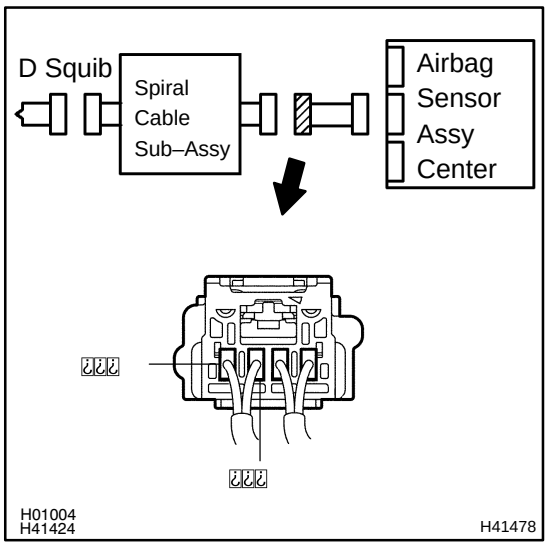
4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

5	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)

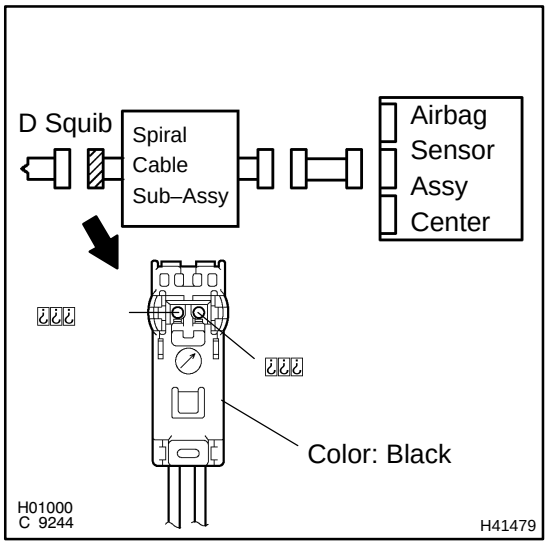


(a) Turn the ignition switch to LOCK.
(b) Disconnect the connector of the instrument panel wire.
(c) Turn the ignition switch to ON.
(d) For the connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the voltage between D2+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER – SPIRAL CABLE SUB–ASSY)**

OK

6	CHECK SPIRAL CABLE SUB–ASSY



(a) For the black connector (on the spiral cable sub–assy side) between the horn button assy and the spiral cable sub–assy, measure the voltage between D2+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

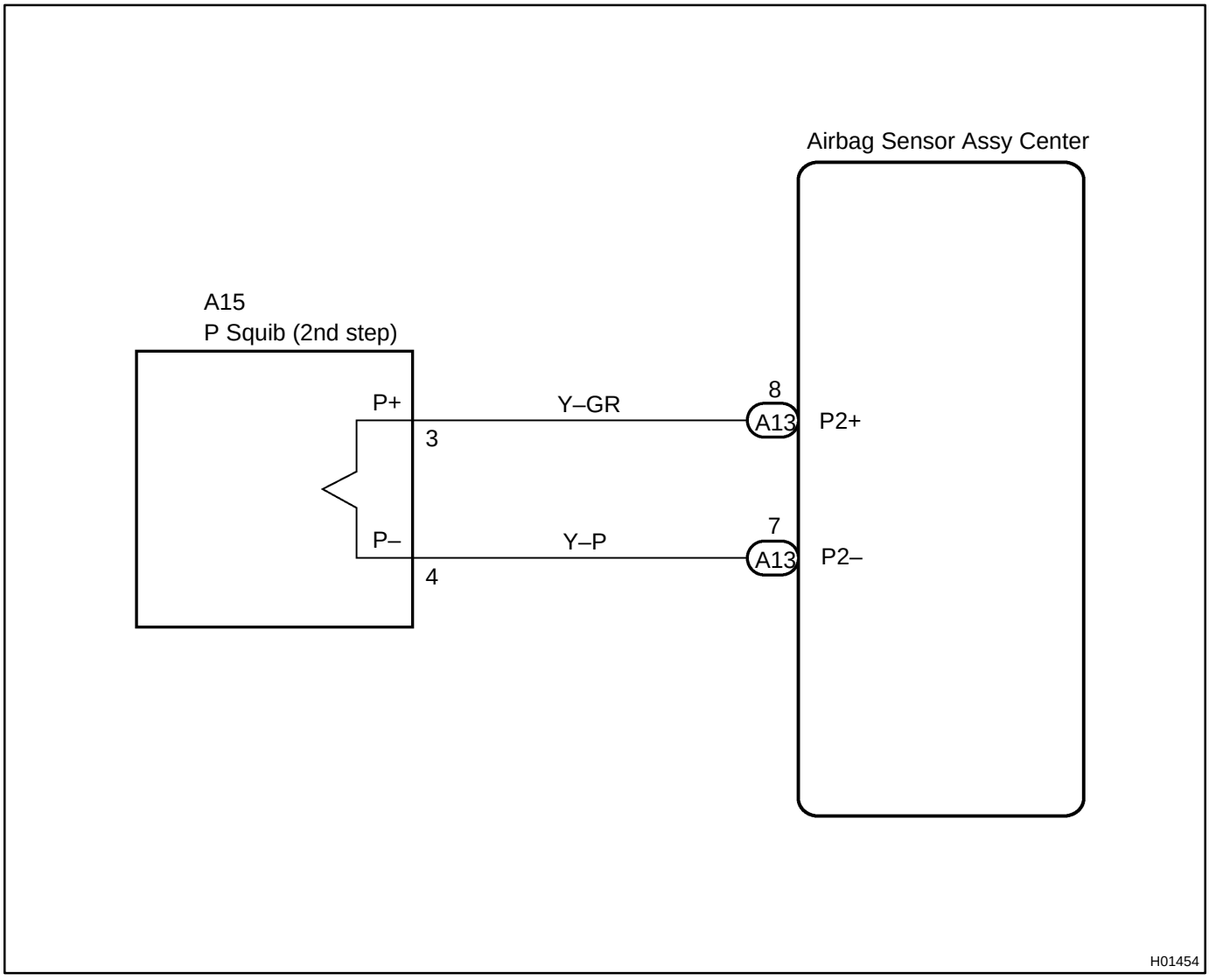
DTC B1185/57 SHORT IN P SQUIB (2ND STEP) CIRCUIT

CIRCUIT DESCRIPTION

The P squib (2nd step) circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy.
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1185/57 is recorded when a short is detected in the P squib (2nd step) circuit.

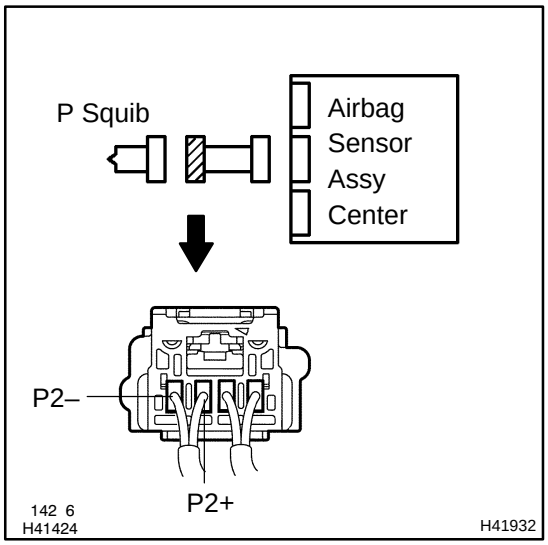
DTC No.	DTC Detecting Condition	Trouble Area
B1185/57	• Short circuit between P2+ wire harness and P2– wire harness of squib. • P squib (2nd step) malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib, 2nd step) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



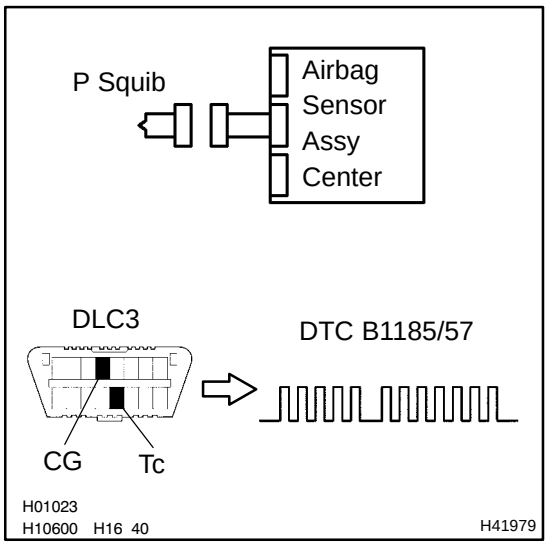
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Release the airbag activation prevention mechanism of the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the instrument panel passenger airbag assy (See page 05–424).
(d) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the resistance between P2+ and P2–.
OK:
Resistance: 1 MΩ or Higher

NG	REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

2	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 20 seconds.
(d) Clear the DTC stored in memory (See page 05–424).
(e) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Check the DTC (See page 05–424).
OK:
DTC B1185/57 is not output.

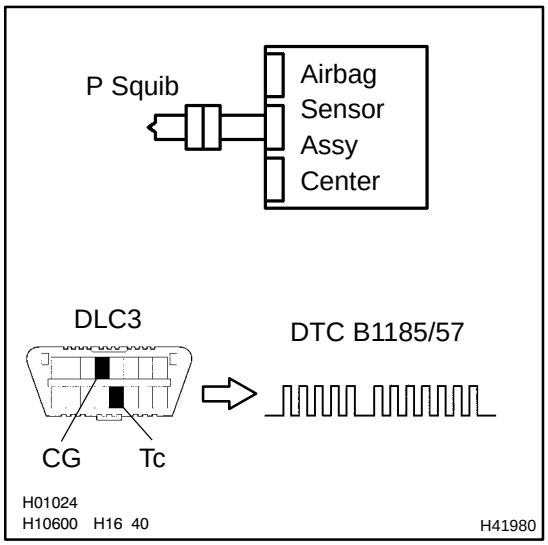
HINT:
Codes other than code B1185/57 may be output at this time, but they are not relevant to this check.

NG	REPLACE AIR BAG SENSOR ASSY CENTER

OK

3 CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B1185/57 is not output.

HINT:

Codes other than code B1185/57 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC B1186/58 OPEN IN P SQUIB (2ND STEP) CIRCUIT

CIRCUIT DESCRIPTION

The P squib (2nd step) circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy.
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1186/58 is recorded when an open is detected in the P squib circuit.

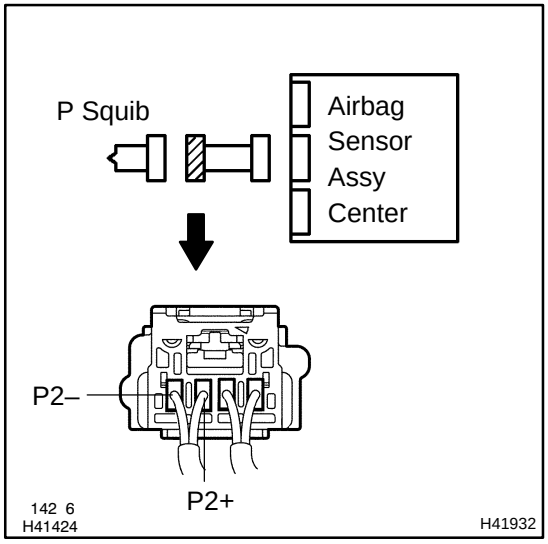
DTC No.	DTC Detecting Condition	Trouble Area
B1186/58	• Open circuit in P2+ wire harness or P2– wire harness of squib (2nd step) • P squib (2nd step) malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib, 2nd step) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–570.

INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



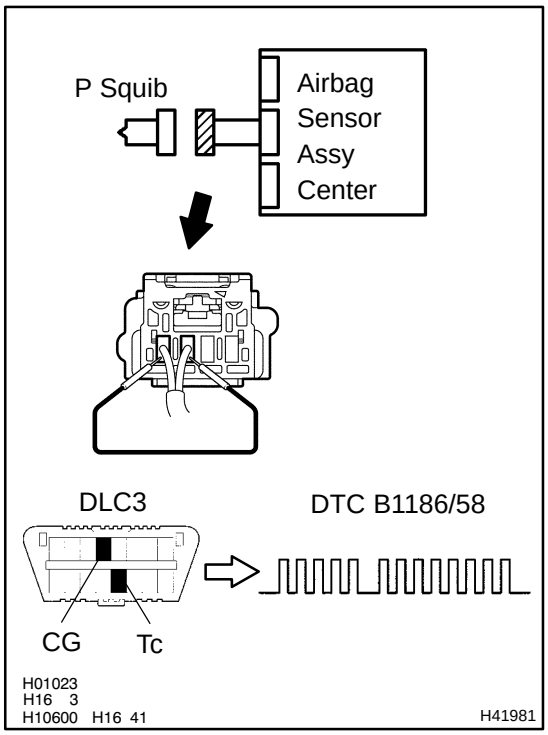
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the resistance between P2+ and P2–.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect P2+ and P2– of the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).

OK:

DTC B1186/58 is not output.

HINT:

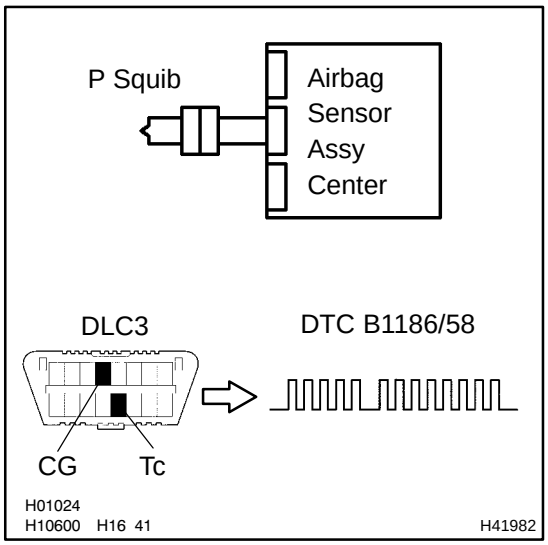
Codes other than code B1186/58 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3	CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B1186/58 is not output.

HINT:

Codes other than code B1186/58 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

USE SIMULATION METHOD TO CHECK

DTC	B1187/55	SHORT IN P SQUIB (2ND STEP) CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The P squib (2nd step) circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy.
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1187/55 is recorded when ground short is detected in the P squib (2nd step) circuit.

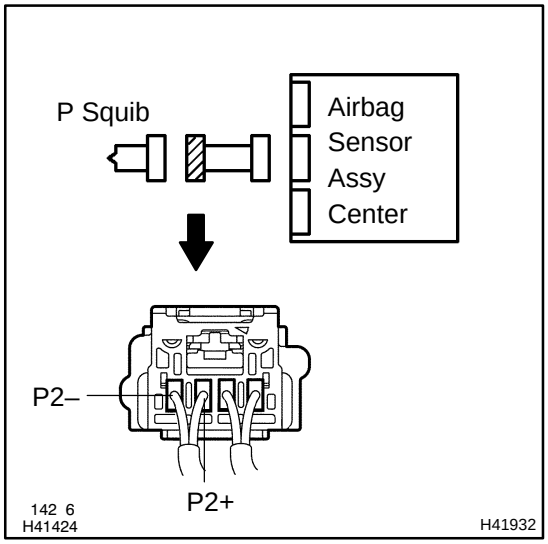
DTC No.	DTC Detecting Condition	Trouble Area
B1187/55	• Short circuit in P squib (2nd step) wire harness (to ground) • P squib malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib, 2nd step) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–570.

INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



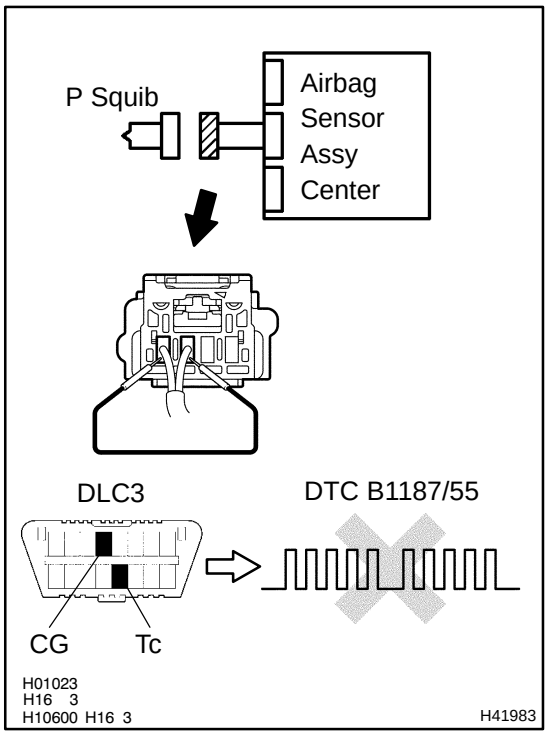
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connector between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the resistance between P2+ and body ground.
OK:
Resistance: 1 MΩ or Higher

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Connect the connector to the airbag sensor assy center.
(b) Using a service wire, connect P2+ and P2– of the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 20 seconds.
(e) Clear the DTC stored in memory (See page 05–424).
(f) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(g) Turn the ignition switch to ON, and wait at least for 20 seconds.
(h) Check the DTC (See page 05–424).
OK:
DTC B1187/55 is not output.

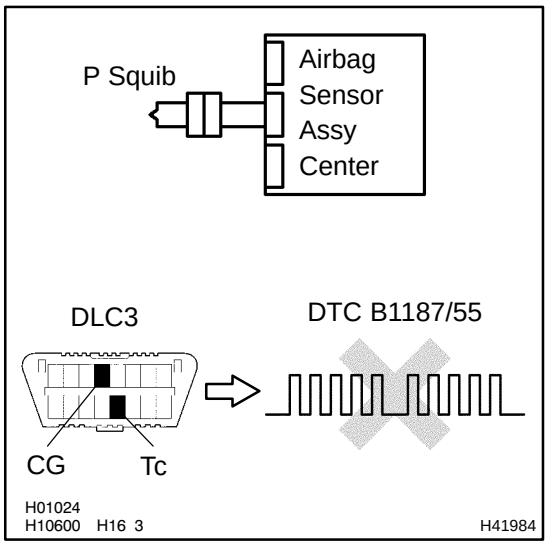
HINT:
Codes other than code B1187/55 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B1187/55 is not output.

HINT:

Codes other than code B1187/55 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

DTC	B1188/56	SHORT IN SQUIB (2ND STEP) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P squib (2nd step) circuit consists of the airbag sensor assy center and instrument panel passenger airbag assy.
It causes the SRS to deploy when the SRS deployment conditions are satisfied.
DTC B1188/56 is recorded when a B+ short is detected in the P squib (2nd step) circuit.

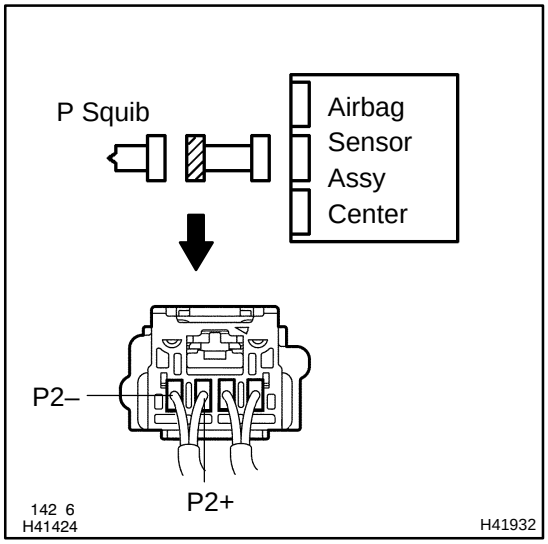
DTC No.	DTC Detecting Condition	Trouble Area
B1188/56	• Short circuit in P squib (2nd step) wire harness (to B+) • P squib (2nd step) malfunction • Airbag sensor assy center malfunction	• Instrument panel passenger airbag assy (P squib, 2nd step) • Airbag sensor assy center • Instrument panel wire

WIRING DIAGRAM

See page 05–570.

INSPECTION PROCEDURE

1	CHECK P SQUIB CIRCUIT(AIRBAG SENSOR ASSY CENTER – INSTRUMENT PANEL PASSENGER AIRBAG ASSY)



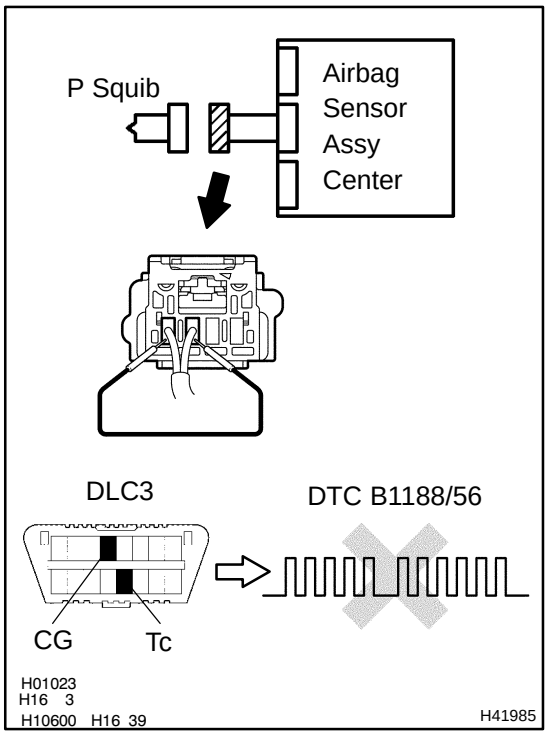
(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connector between the airbag sensor assy center and the instrument panel passenger airbag assy.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) For the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy, measure the voltage between P2+ and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect P2+ and P2– of the connector (on the instrument panel passenger airbag assy side) between the airbag sensor assy center and the instrument panel passenger airbag assy.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 20 seconds.
(g) Clear the DTC stored in memory (See page 05–424).
(h) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(i) Turn the ignition switch to ON, and wait at least for 20 seconds.
(j) Check the DTC (See page 05–424).

OK:

DTC B1188/56 is not output.

HINT:

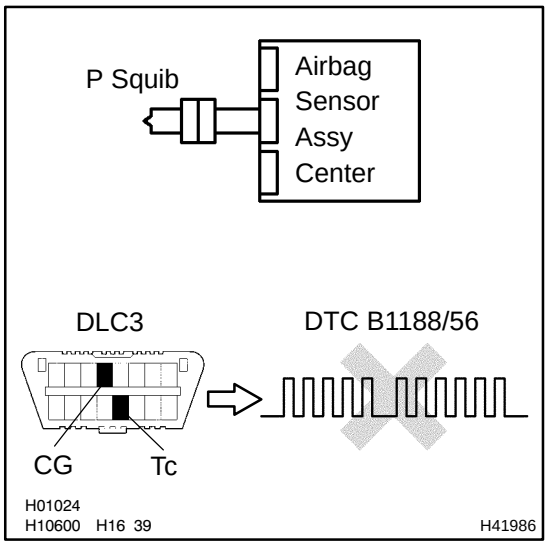
Codes other than code B1188/56 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK P SQUIB

SST 09843–18040



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

OK:

DTC B1188/56 is not output.

HINT:

Codes other than code B1188/56 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIR BAG ASSY**

OK

4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

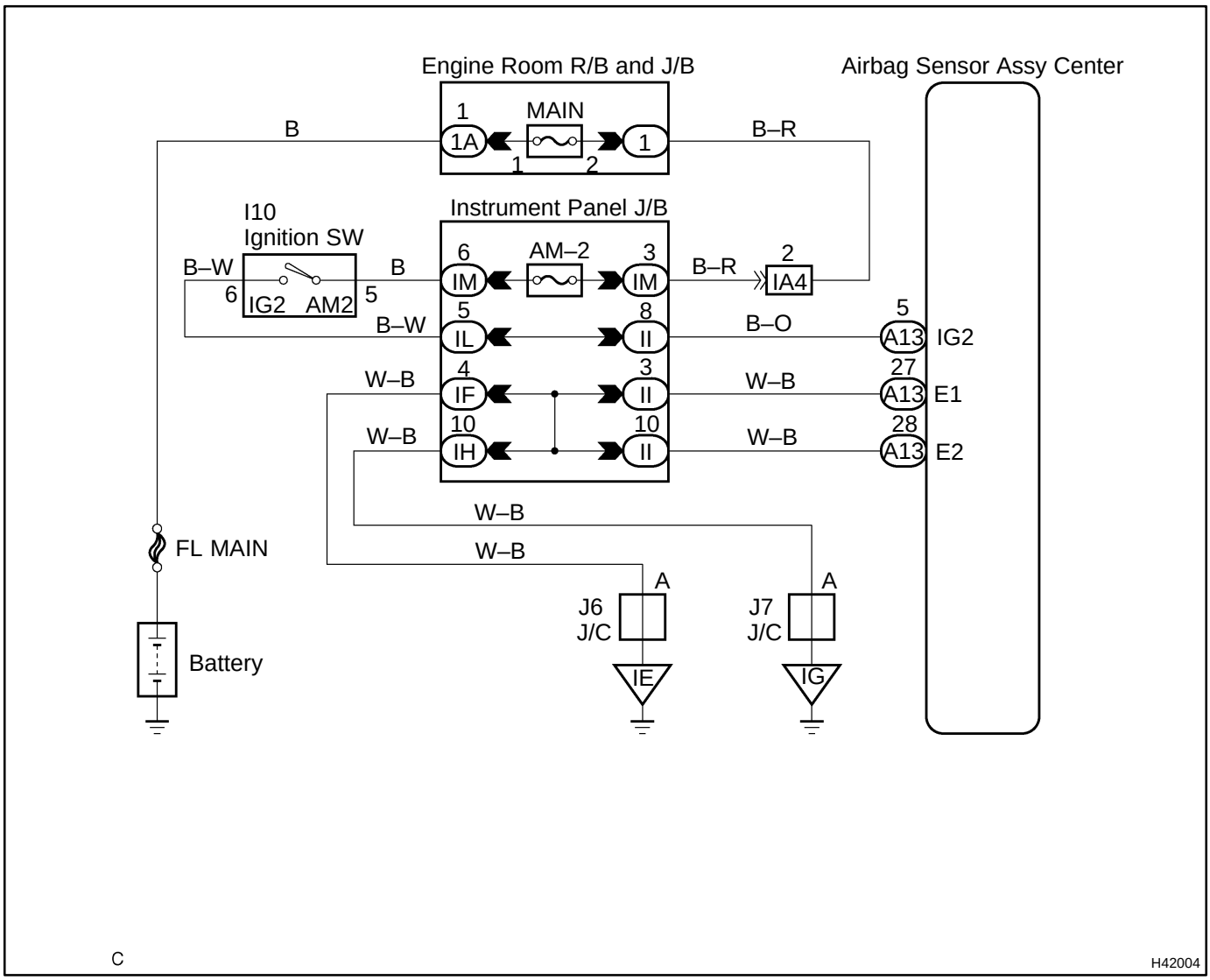
SOURCE VOLTAGE DROP

CIRCUIT DESCRIPTION

The SRS is equipped with a voltage–increase circuit (DC–DC converter) in the airbag sensor assy center in case the source voltage drops.
When the battery voltage drops, the voltage–increase circuit (DC–DC converter) functions to increase the voltage of the SRS to normal voltage.
The diagnosis system malfunction display for this circuit is different from other circuits that is when the SRS warning light remains lit up and the DTC is a normal code, source voltage drop is indicated.
Malfunction in this circuit is not recorded in the airbag sensor assy center, and the source voltage returns to normal, the SRS warning light automatically goes off.

DTC No.	Diagnosis
(Normal)	Source voltage drop

WIRING DIAGRAM



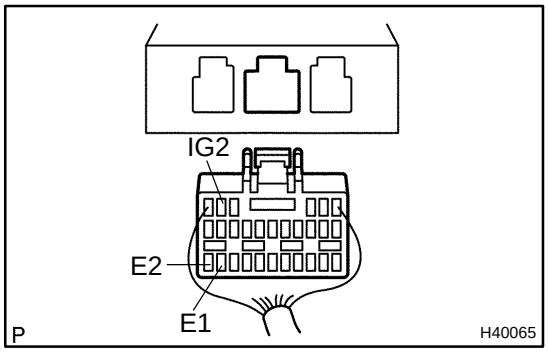
INSPECTION PROCEDURE

1	PREPARE FOR INSPECTION

(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Remove the horn button assy (See page 60–13).
(c) Disconnect the connector of the instrument panel passenger airbag assy (See page 60–26).
(d) Disconnect the connector of the front seat airbag assy RH and LH (See page 60–32).
(e) Disconnect the connector of the seat belt pretensioner RH and LH (See page 61–9).
(f) Disconnect the connectors of the airbag sensor assy center (See page 60–38).
(g) Disconnect the connector of the airbag front RH sensor and airbag sensor front LH (See page 60–40 and 60–42).
(h) Disconnect the connector of the side airbag sensor assy RH and LH (See page 60–44).
(i) Disconnect the connector of the seat position airbag sensor (See page 60–46).

CAUTION:
Store the horn button assy, instrument panel passenger airbag assy and front seat airbag assy with the front surface facing upward.

2	CHECK SOURCE VOLTAGE



(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 60 seconds.
(c) Measure the voltage between E1 (E2) and terminal IG2 on the sensor and operate electric system (defogger, wiper, headlight, heater blower, etc.).
OK:
Voltage: 10 – 14 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER,AND CHARGING SYSTEM**

OK

3	CHECK SRS WARNING LIGHT TURN OFF

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the horn button assy connectors.
(d) Connect the instrument panel passenger airbag assy connector.
(e) Connect the front seat airbag assy RH and LH connectors.
(f) Connect the seat belt pretensioner RH and LH connectors.
(g) Connect the airbag sensor assy center connectors.
(h) Connect the front airbag sensor RH and LH connectors.
(i) Connect the side airbag sensor assy RH and LH connectors.
(j) Connect the seat position airbag sensor connector.
(k) Connect the negative (–) terminal cable to the battery.
(l) Turn the ignition switch to ON, and wait at least for 60 seconds.
(m) Operate electric system (defogger, wiper headlight, heater blower, etc.) and check that SRS warning light goes off.

OK:

SRS warning light is not light up.

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER,AND CHARGING SYSTEM**

OK

4	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040

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

OK:

DTC is not output.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

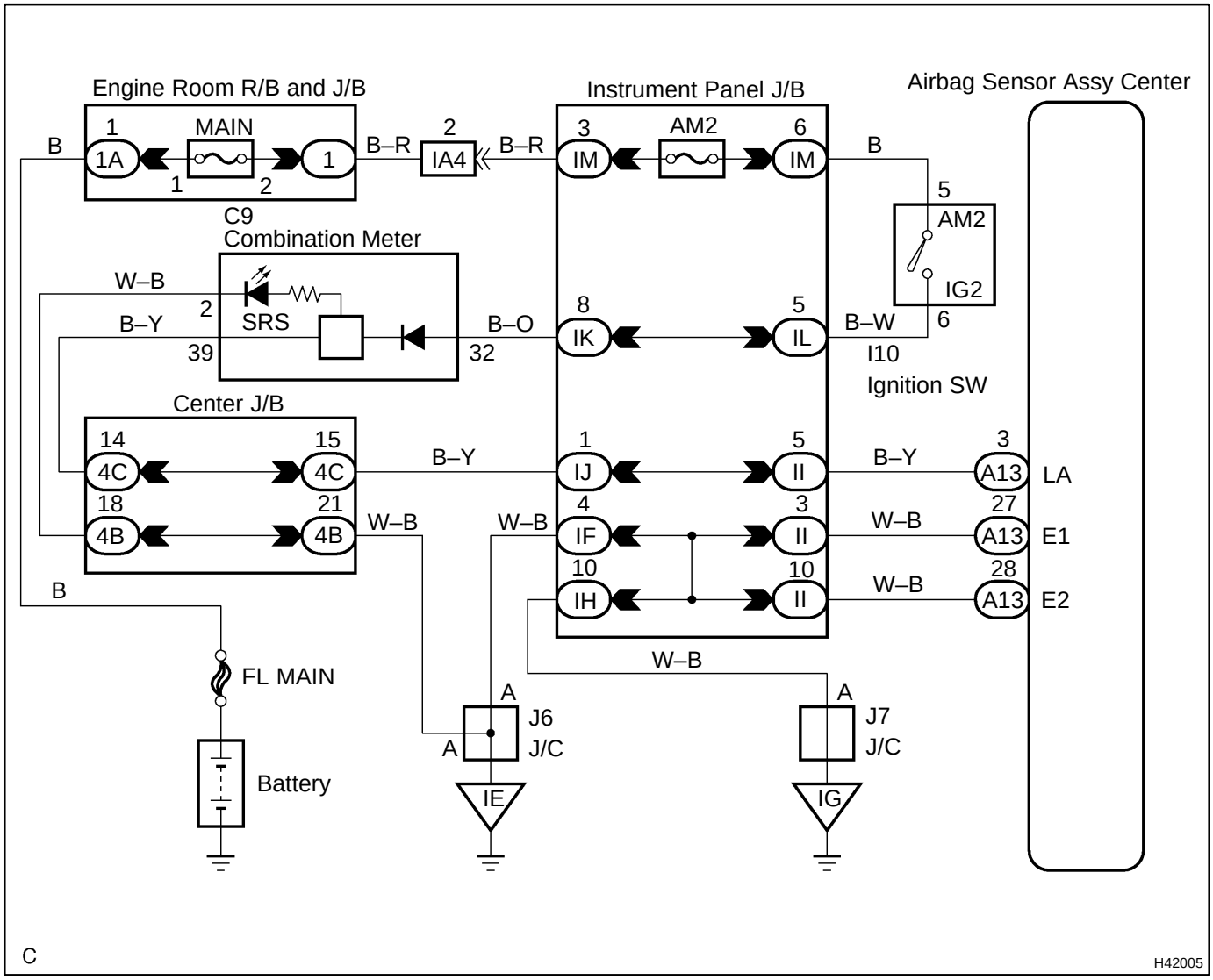
USE SIMULATION METHOD TO CHECK

SRS WARNING LIGHT CIRCUIT MALFUNCTION (ALWAYS LIGHT UP, WHEN DTC IS NOT OUTPUT)

CIRCUIT DESCRIPTION

The SRS warning light is located on the combination meter.
When the SRS is normal, the SRS warning light lights up for approx. 6 seconds after the ignition switch is turned from the LOCK position to ON position, and then turns off automatically.
If there is a malfunction in the SRS, the SRS warning light lights up to inform the driver of the abnormality. When terminals Tc and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.

WIRING DIAGRAM



INSPECTION PROCEDURE

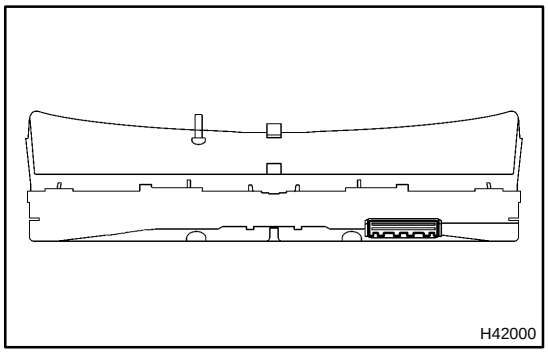
1	CHECK CONNECTOR

(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Check the connection of the combination meter connector and the airbag sensor assy center connectors.
OK:
The connectors are connected.

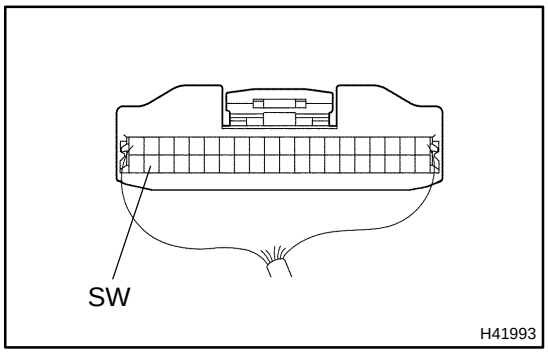
NG → **CONNECT CONNECTORS**

OK

2	CHECK COMBINATION METER ASSY



(a) Disconnect the connector from the combination meter.
(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

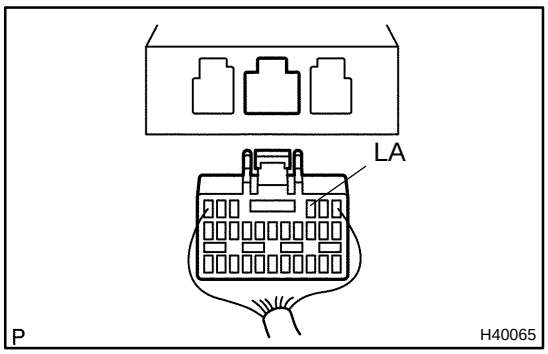


(c) Turn the ignition switch to ON, and wait at least for 6 seconds.
(d) Measure the voltage between SW and body ground.
OK:
Voltage: Above 8 V

NG → **REPLACE COMBINATION METER ASSY**

OK

3	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER–COMBINATION METER ASSY)



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connector from the airbag sensor assy center.
(d) Measure the resistance between LA and body ground.
OK:
Resistance: 1MΩ or Higher

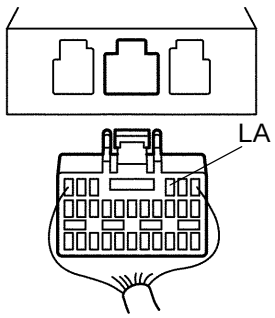
NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE (AIRBAG SENSOR ASSY CENTER – COMBINATION METER ASSY)**

OK

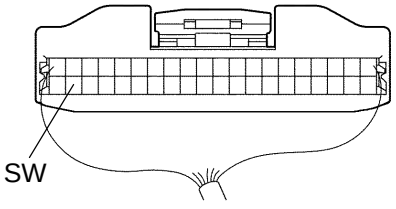
REPLACE AIR BAG SENSOR ASSY CENTER

4	CHECK INSTRUMENT PANEL WIRE(AIRBAG SENSOR ASSY CENTER–COMBINATION METER ASSY)

Airbag Sensor Assy Center:



Combination Meter:



(a) For the connector (on the airbag sensor assy center side) between the combination meter and the airbag sensor assy center, measure the resistance between SW and LA.
OK:
Resistance: Below 1 Ω

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE (AIRBAG SENSOR ASSY CENTER – COMBINATION METER ASSY)**

OK

REPLACE AIR BAG SENSOR ASSY CENTER

SRS WARNING LIGHT CIRCUIT MALFUNCTION (DOES NOT LIGHT UP, WHEN IGNITION SWITCH IS TURNED TO ON)

CIRCUIT DESCRIPTION

The SRS warning light is located on the combination meter.
When the SRS is normal, the SRS warning light lights up for approx. 6 seconds after the ignition switch is turned from the LOCK position to ON position, and then turns off automatically.
If there is a malfunction is the SRS, the SRS warning light lights up to inform the driver of the abnormality.
When terminals Tc and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.

WIRING DIAGRAM

See page 05–585.

INSPECTION PROCEDURE

1	CHECK SOURCE VOLTAGE

(a) Measure the voltage of the battery.
OK:
Voltage: 10 – 14 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER,AND CHARGING SYSTEM**

OK

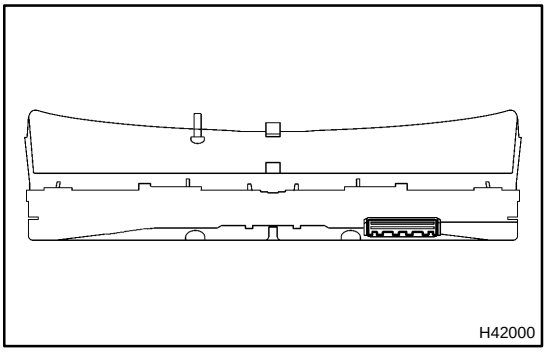
2	CHECK AIR BAG SENSOR ASSY CENTER

(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connectors from the airbag sensor assy center.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) Check SRS warning light light up in the combination meter assy.
OK:
Not SRS warning light light up.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

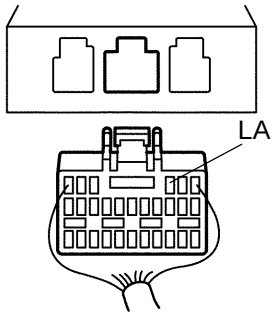
OK

3	CHECK WIRE HARNESS(COMBINATION METER ASSY – AIRBAG SENSOR ASSY CENTER)

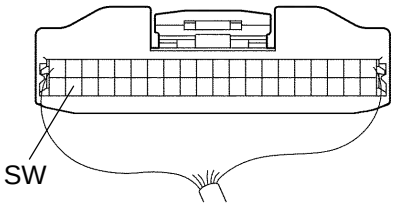


(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connector from the combination meter.

Airbag Sensor Assy Center:



Combination Meter:



(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON.
(f) For the connector (on the airbag sensor assy center side) between the airbag sensor assy center and the combination meter, measure the voltage between LA and body ground.
OK:
Voltage: Below 1 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN AIRBAG SENSOR ASSY CENTER AND COMBINATION METER ASSY**

OK

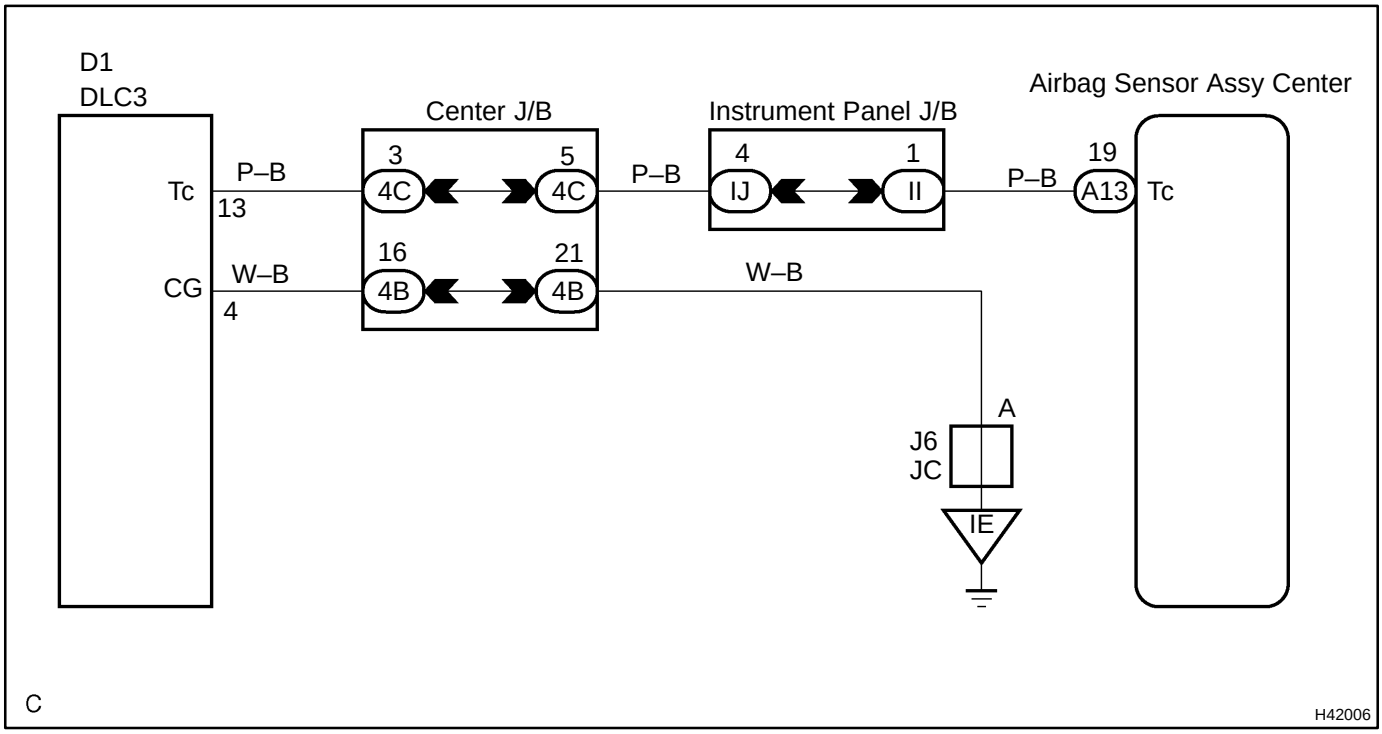
REPAIR OR REPLACE COMBINATION METER ASSY OR WIRE HARNESS BETWEEN COMBINATION METER ASSY AND BATTERY

TC TERMINAL CIRCUIT

CIRCUIT DESCRIPTION

DTC output mode is set by connecting between TC and CG of the DLC3.
The DTCs are displayed by blinking the SRS warning light.

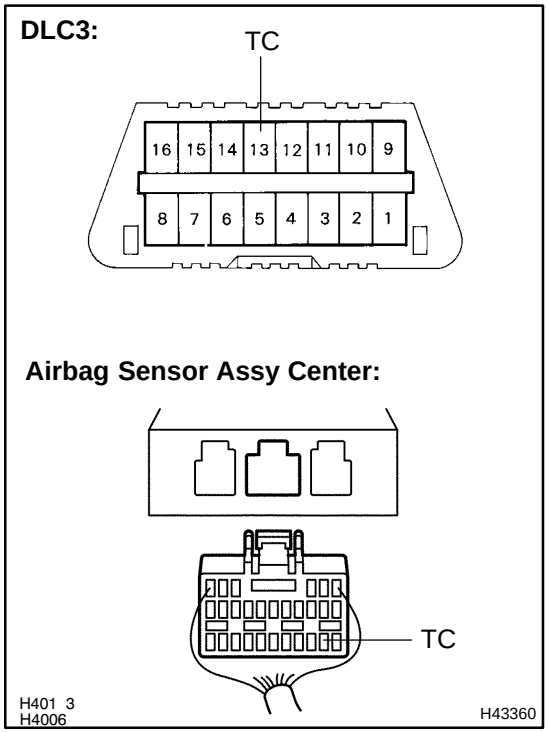
WIRING DIAGRAM



HINT:
When each warning light stays blinking, ground short in the wiring until the terminal TC of the DLC3 or internal ground short in each ECU is suspected.

INSPECTION PROCEDURE

1 CHECK WIRE HARNESS(DLC3 – AIRBAG SENSOR ASSY CENTER)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the aribag sensor assy center connector.
(c) Measure the resistance according to the value(s) in the table below.

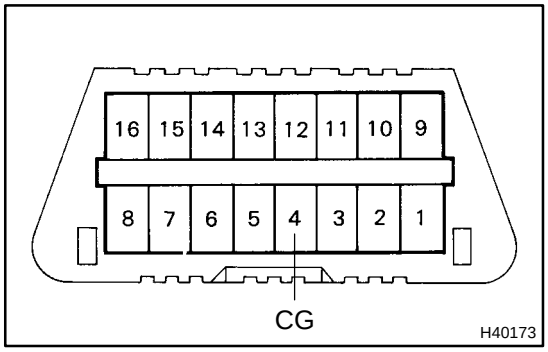
Standard:

Tester connection	Condition	Specified condition
TC – TC	Always	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS(TC of ELC3 – TC of AIRBAG SENSOR ASSY CENTER)**

OK

2 CHECK WIRE HARNESS(CG of DLC3 – BODY GROUND)



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

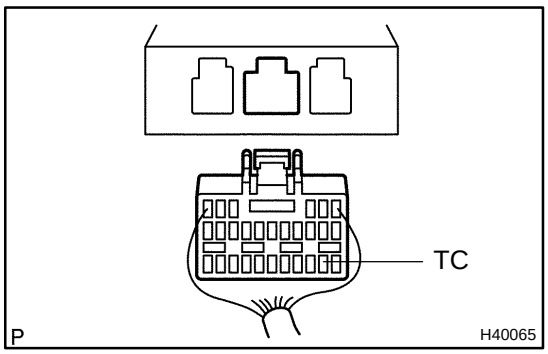
Standard:

Tester connection	Condition	Specified condition
CG – Body ground	Always	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS(CG of DLC3 – BODY GROUND)**

OK

3	CHECK WIRE HARNESS(TC of AIRBAG SENSOR ASSY CENTER – BODY GROUND)



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

Standard:

Tester connection	Condition	Specified condition
TC – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE WIRE HARNESS AND EACH ECU**

OK

REPLACE AIR BAG SENSOR ASSY CENTER