Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YTI0MFX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1000/31; Center Airbag Sensor Assembly Malfunction; 2016 MY Tacoma [08/2015 -]		

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

DESCRIPTION

The airbag sensor assembly consists of a deceleration sensor, safing sensor, drive circuit, diagnosis circuit, ignition control, etc.

If the airbag sensor assembly receives signals from the deceleration sensor, it determines whether or not the SRS should be activated.

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

DTC NO.	DTC DETECTING CONDITION	TROUBLE AREA
B1000/31	Airbag sensor assembly malfunction	Airbag sensor assembly

HINT:

When any other DTCs are set simultaneously with B1000/31, repair the malfunctions indicated by those DTCs first.

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1000/31 is output	A
DTC B1000/31 and other DTCs are output	B

NOTICE:

If only DTC B1000/31 is output, do not clear the DTCs, replace the airbag sensor assembly.

HINT:

If any DTCs other than DTC B1000/31 are also output, troubleshoot those DTCs first.

B ▶ **GO TO DIAGNOSTIC TROUBLE CODE CHART**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YTM0CWX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1610/13; Front Airbag Sensor RH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1610/13**	**Front Airbag Sensor RH Circuit Malfunction**

DESCRIPTION

The front airbag sensor RH consists of parts such as the diagnostic circuit and the frontal detection sensor.

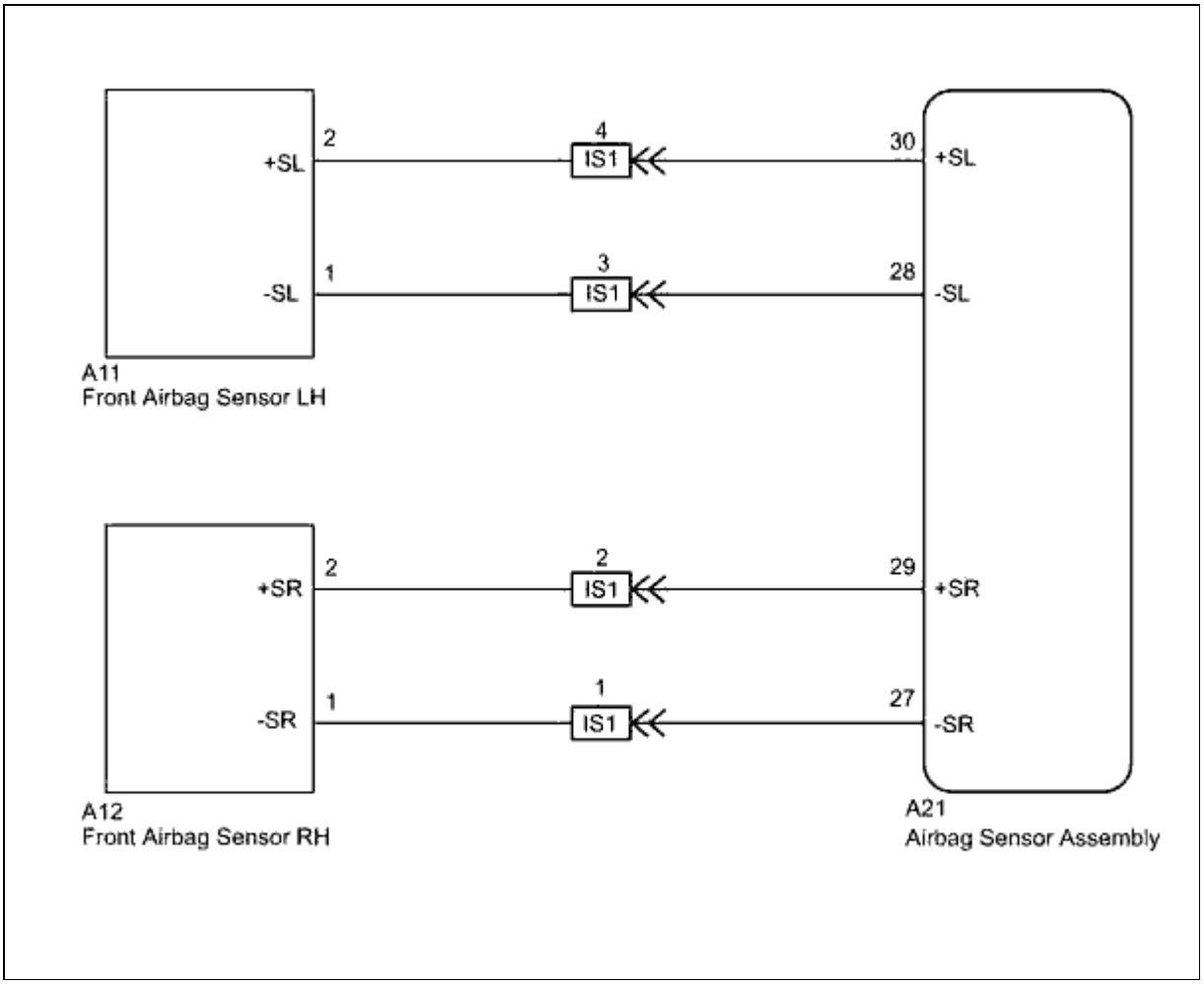
When the airbag sensor assembly receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1610/13 is set when a malfunction is detected in the front airbag sensor RH circuit.

DTC NO.	DTC DETECTING CONDITION	TROUBLE AREAS
B1610/13	• The airbag sensor assembly receives a line short signal, an open signal, a short to ground signal or a short to B+ signal in the front airbag sensor RH circuit for 2 seconds • Front airbag sensor RH malfunction • Airbag sensor assembly malfunction	• Front airbag sensor RH • Airbag sensor assembly • Instrument panel wire • Engine room main wire

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor RH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

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OK

2.	**CHECK CONNECTOR**

(a) Check that the connectors (on the airbag sensor assembly side and front airbag sensor RH side) are not damaged INFO .

OK:

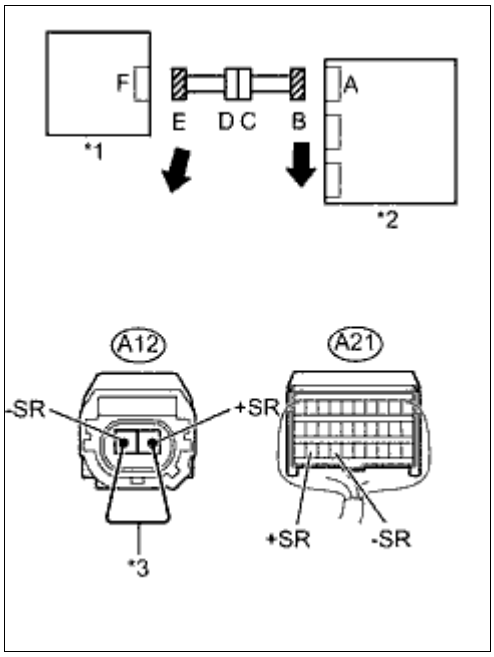
The connectors are not deformed or damaged.

NG ▶ **REPLACE WIRE HARNESS**

OK

3.	**CHECK FRONT AIRBAG SENSOR RH CIRCUIT (FOR OPEN)**

(a) Disconnect the connectors from the airbag sensor assembly and the front airbag sensor RH.



(b) Using a service wire, connect A12-2 (+SR) and A12-1 (-SR) of connector E.

NOTICE:

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

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

Standard Resistance:

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-29 (+SR) - A21-27 (-SR)	Always	Below 1 Ω

Text in Illustration

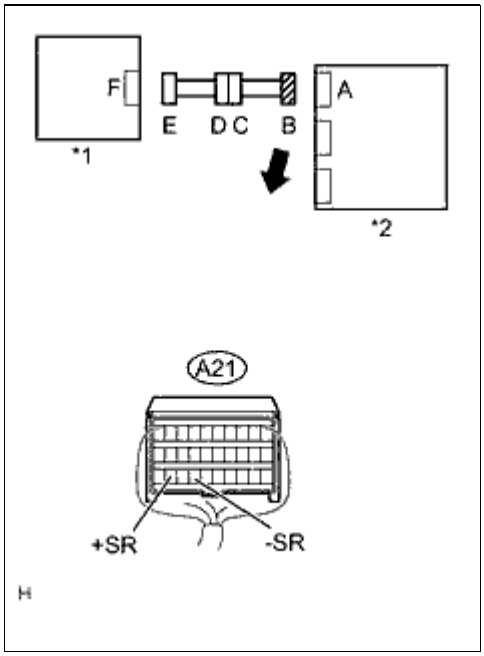
*1	Front Airbag Sensor RH
*2	Airbag Sensor Assembly
*3	Service Wire

NG ▶ **GO TO STEP 9**

OK ▼

4.	**CHECK FRONT AIRBAG SENSOR RH CIRCUIT (FOR SHORT)**

(a) Disconnect the service wire from connector E.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-29 (+SR) - A21-27 (-SR)	Always	1 MΩ or higher

Text in Illustration

*1	Front Airbag Sensor RH

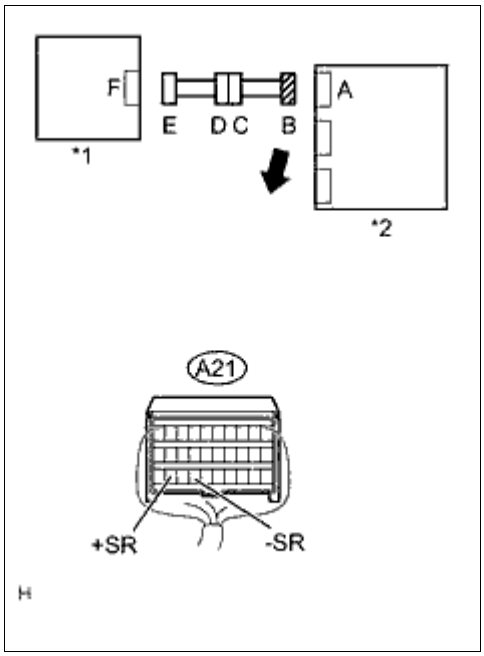
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*2	Airbag Sensor Assembly

NG ▶ **GO TO STEP 10**

OK ▼

5.	**CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO B+)**



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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A21-29 (+SR) - Body ground	Ignition switch ON	Below 1 V
A21-27 (-SR) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Airbag Sensor RH
*2	Airbag Sensor Assembly

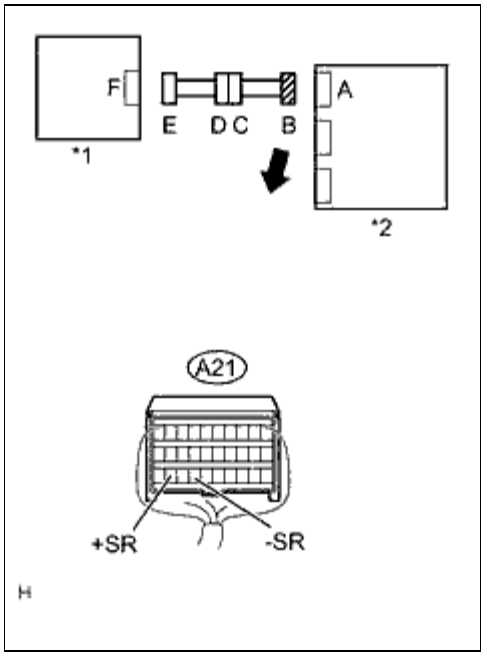
NG ▶ **GO TO STEP 11**

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OK

6.	**CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO GROUND)**

(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-29 (+SR) - Body ground	Always	1 MΩ or higher
A21-27 (-SR) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Front Airbag Sensor RH
*2	Airbag Sensor Assembly

NG ▶ **GO TO STEP 12**

OK

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7.	CHECK FRONT AIRBAG SENSOR RH

(a) Connect the connectors to the airbag sensor assembly.

(b) Interchange the front airbag sensor RH with the front airbag sensor LH and connect the connectors to them.

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

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1610/13 is output.	A
DTC B1615/14 is output.	B
Neither DTC B1610/13 nor B1615/14 is output.	C

B ▶ **REPLACE FRONT AIRBAG SENSOR RH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

8.	REPLACE AIRBAG SENSOR ASSEMBLY

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

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(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1610/13 is not output.

HINT:

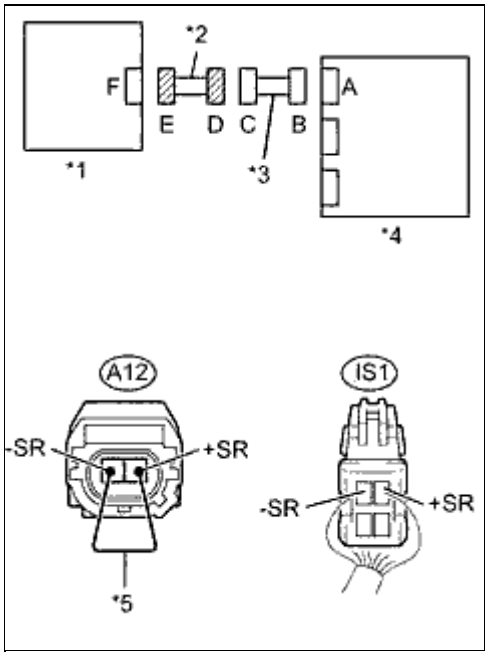
DTCs other than B1610/13 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT AIRBAG SENSOR RH**

OK ▶ **END**

9.	CHECK ENGINE ROOM MAIN WIRE (FOR OPEN)

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



HINT:

The service wire has already been inserted into connector E.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IS1 -1 (-SR) - IS1-2 (+SR)	Always	Below 1 Ω

Text in Illustration

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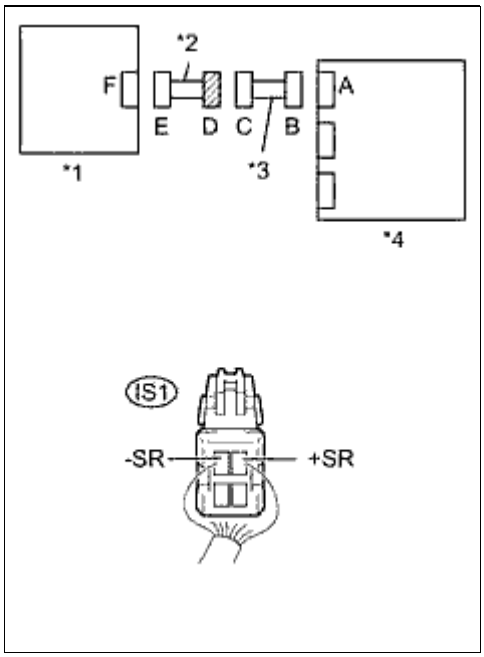
*1	Front Airbag Sensor RH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly
*5	Service Wire

NG ▶ **REPLACE ENGINE ROOM MAIN WIRE**

OK ▶ **REPLACE INSTRUMENT PANEL WIRE**

10.	**CHECK ENGINE ROOM MAIN WIRE (FOR SHORT)**

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



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IS1 -1 (-SR) - IS1-2 (+SR)	Always	1 MΩ or higher

Text in Illustration

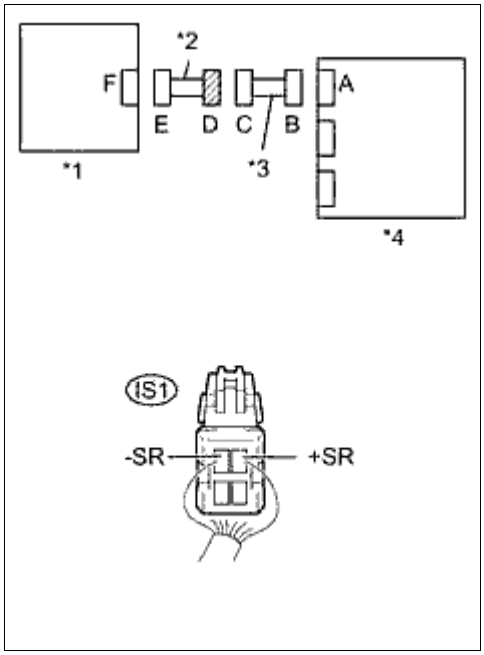
*1	Front Airbag Sensor RH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

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NG ▶ **REPLACE ENGINE ROOM MAIN WIRE**

OK ▶ **REPLACE INSTRUMENT PANEL WIRE**

11.	**CHECK ENGINE ROOM MAIN WIRE (TO B+)**



(a) Turn the ignition switch off.

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

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

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
IS1 -1 (-SR) - Body ground	Ignition switch ON	Below 1 V
IS1-2 (+SR) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

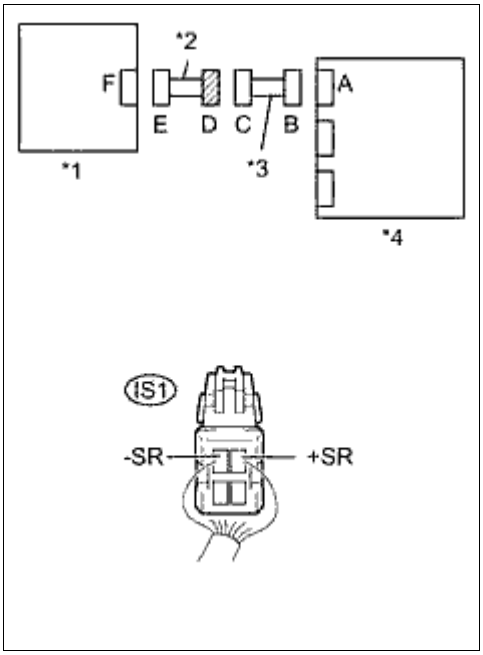
*1	Front Airbag Sensor RH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

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NG ▶ REPLACE ENGINE ROOM MAIN WIRE

OK ▶ REPLACE INSTRUMENT PANEL WIRE

12.	CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IS1 -1 (-SR) - Body ground	Always	1 MΩ or higher
IS1-2 (+SR) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Front Airbag Sensor RH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ REPLACE ENGINE ROOM MAIN WIRE

OK ▶ REPLACE INSTRUMENT PANEL WIRE

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YTM0D1X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1615/14; Front Airbag Sensor LH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1615/14**	**Front Airbag Sensor LH Circuit Malfunction**

DESCRIPTION

The front airbag sensor LH consists of parts such as the diagnostic circuit and the frontal detection sensor.

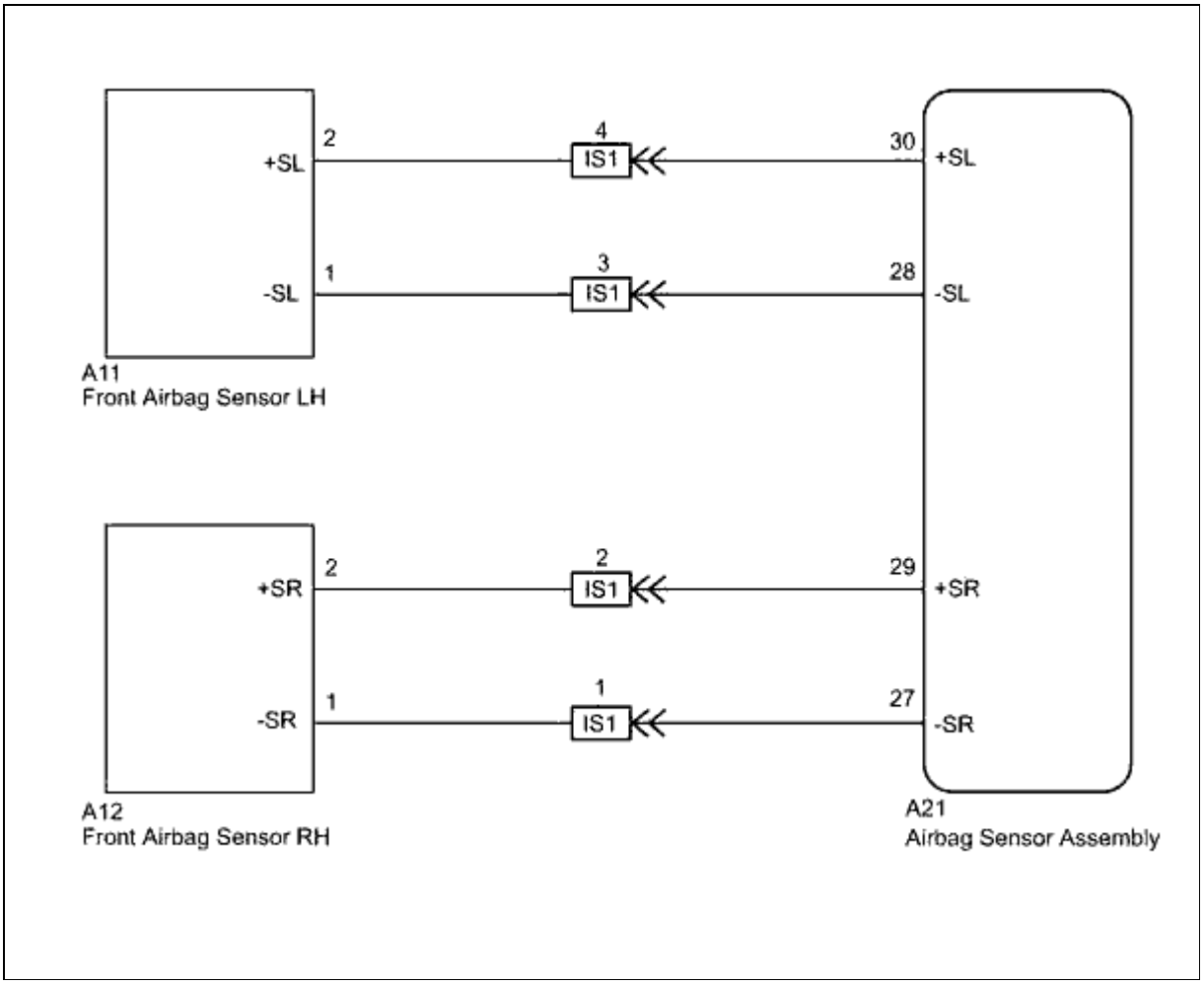
When the airbag sensor assembly receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1615/14 is set when a malfunction is detected in the front airbag sensor LH circuit.

DTC NO.	DTC DETECTING CONDITION	TROUBLE AREAS
B1615/14	• The airbag sensor assembly receives a line short signal, an open signal, a short to ground signal or a short to B+ signal in the front airbag sensor LH circuit for 2 seconds • Front airbag sensor LH malfunction • Airbag sensor assembly malfunction	• Front airbag sensor LH • Airbag sensor assembly • Instrument panel wire • Engine room main wire

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor LH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

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OK

2.	**CHECK CONNECTOR**

(a) Check that the connectors (on the airbag sensor assembly side and front airbag sensor LH side) are not damaged INFO .

OK:

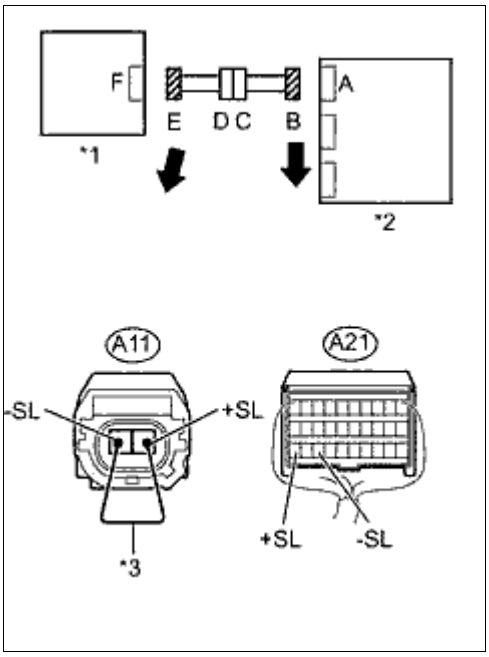
The connectors are not deformed or damaged.

NG ▶ **REPLACE WIRE HARNESS**

OK

3.	**CHECK FRONT AIRBAG SENSOR LH CIRCUIT (FOR OPEN)**

(a) Disconnect the connectors from the airbag sensor assembly and the front airbag sensor LH.



(b) Using a service wire, connect A11-2 (+SL) and A11-1 (-SL) of connector E.

NOTICE:

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

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

Standard Resistance:

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21 -30 (+SL) - A21-28 (-SL)	Always	Below 1 Ω

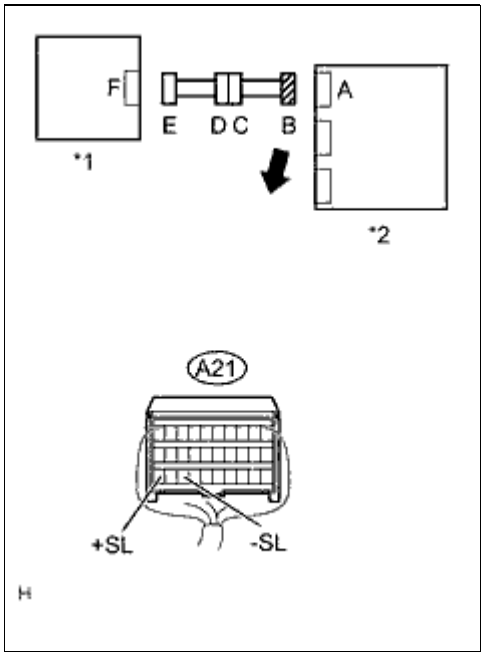
Text in Illustration

*1	Front Airbag Sensor LH
*2	Airbag Sensor Assembly
*3	Service Wire

NG ▶ **GO TO STEP 9**

OK ▼

4.	**CHECK FRONT AIRBAG SENSOR LH CIRCUIT (FOR SHORT)**



(a) Disconnect the service wire from connector E.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21 -30 (+SL) - A21-28 (-SL)	Always	1 MΩ or Higher

Text in Illustration

*1	Front Airbag Sensor LH

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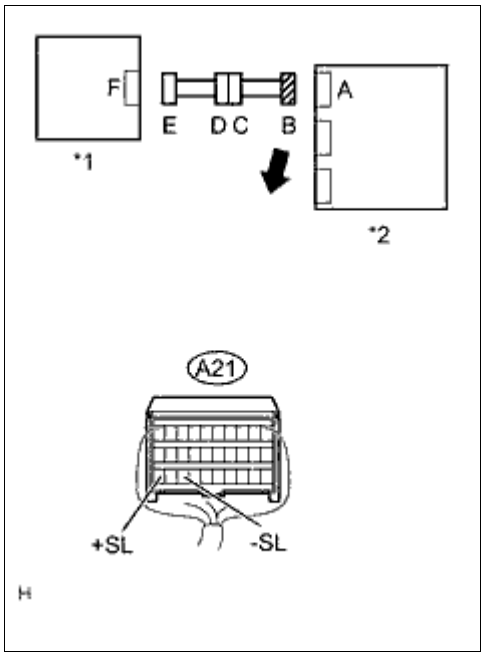
*2	Airbag Sensor Assembly

NG ▶ GO TO STEP 10

OK ▼

5.	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO B+)

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A21 -30 (+SL) - Body ground	Ignition switch ON	Below 1 V
A21-28 (-SL) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Airbag Sensor LH
*2	Airbag Sensor Assembly

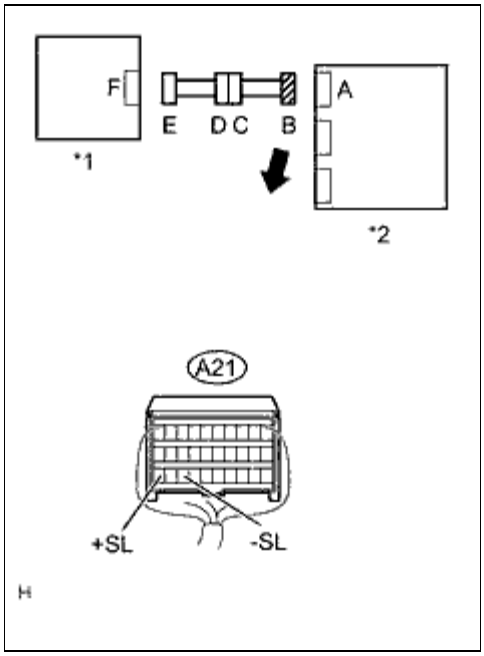
NG ▶ GO TO STEP 11

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OK

6.	**CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO GROUND)**

(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21 -30 (+SL) - Body ground	Always	1 MΩ or Higher
A21-28 (-SL) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Front Airbag Sensor LH
*2	Airbag Sensor Assembly

NG ▶ **GO TO STEP 12**

OK

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7.	CHECK FRONT AIRBAG SENSOR LH

(a) Connect the connectors to the airbag sensor assembly.

(b) Interchange the front airbag sensor RH with the front airbag sensor LH and connect the connectors to them.

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

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1615/14 is output.	A
DTC B1610/13 is output.	B
Neither DTC B1610/13 nor B1615/14 is output.	C

B ▶ **REPLACE FRONT AIRBAG SENSOR LH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

8.	REPLACE AIRBAG SENSOR ASSEMBLY

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

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(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1615/14 is not output.

HINT:

DTCs other than B1615/14 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT AIRBAG SENSOR LH**

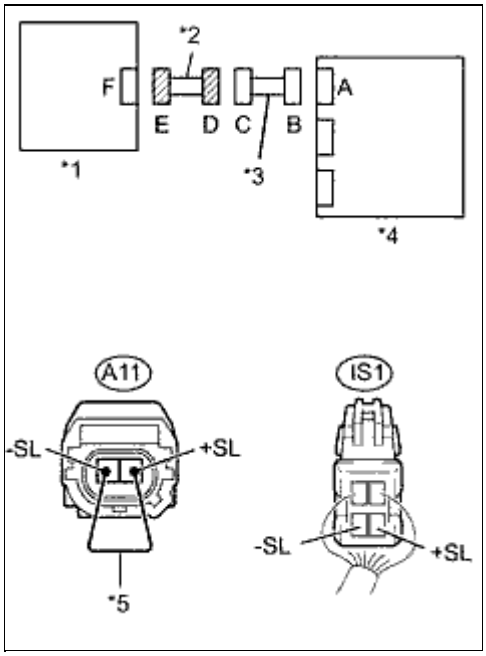
OK ▶ **END**

9.	CHECK ENGINE ROOM MAIN WIRE (FOR OPEN)

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

HINT:

The service wire has already been inserted into connector E.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IS1-3 (-SL) - IS1-4 (+SL)	Always	Below 1 Ω

Text in Illustration

*1	Front Airbag Sensor LH
*2	Engine Room Main Wire

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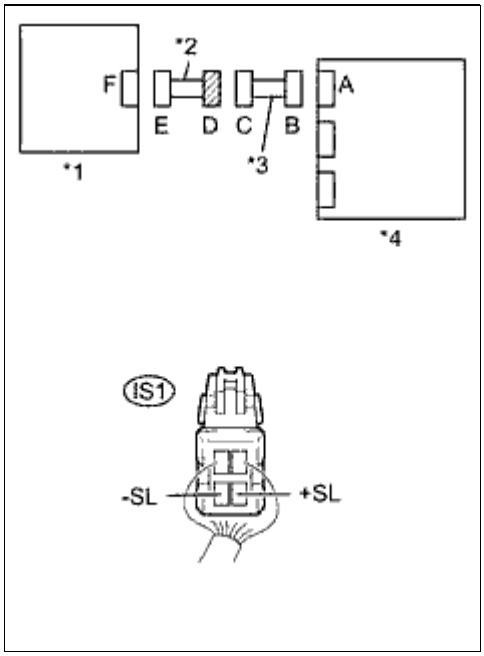
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly
*5	Service Wire

NG ▶ **REPLACE ENGINE ROOM MAIN WIRE**

OK ▶ **REPLACE INSTRUMENT PANEL WIRE**

10.	**CHECK ENGINE ROOM MAIN WIRE (FOR SHORT)**

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



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IS1-3 (-SL) - IS1-4 (+SL)	Always	1 MΩ or Higher

Text in Illustration

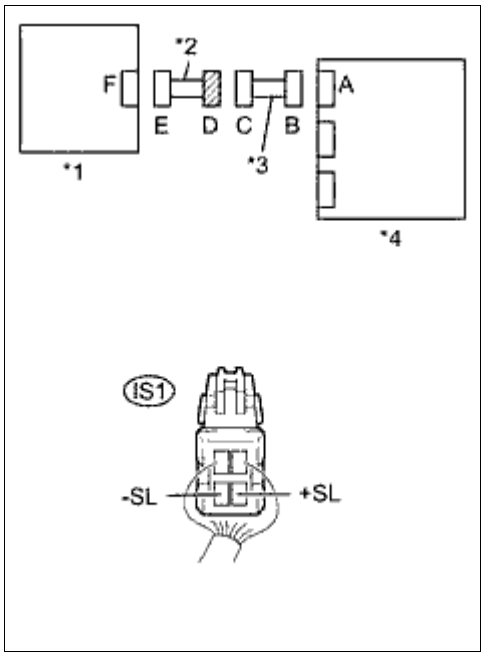
*1	Front Airbag Sensor LH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE ENGINE ROOM MAIN WIRE**

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OK ▶ **REPLACE INSTRUMENT PANEL WIRE**

11.	**CHECK ENGINE ROOM MAIN WIRE (TO B+)**



(a) Turn the ignition switch off.

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

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

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
IS1-3 (-SL) - Body ground	Ignition switch ON	Below 1 V
IS1-4 (+SL) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Airbag Sensor LH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

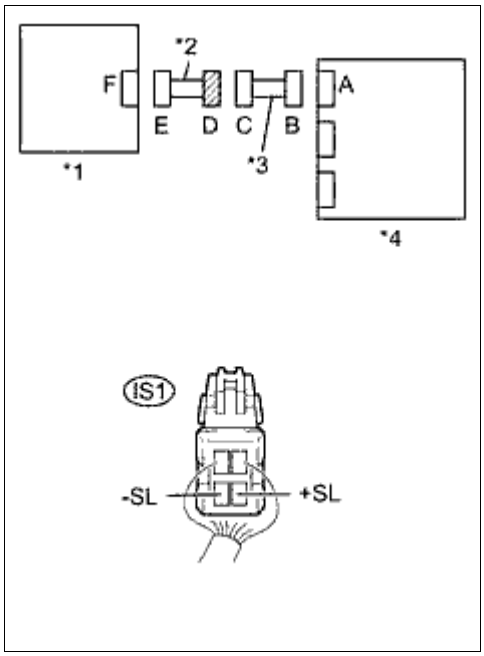
NG ▶ **REPLACE ENGINE ROOM MAIN WIRE**

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OK ▶ **REPLACE INSTRUMENT PANEL WIRE**

12.	**CHECK ENGINE ROOM MAIN WIRE (TO GROUND)**

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



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IS1-3 (-SL) - Body ground	Always	1 MΩ or Higher
IS1-4 (+SL) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Front Airbag Sensor LH
*2	Engine Room Main Wire
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE ENGINE ROOM MAIN WIRE**

OK ▶ **REPLACE INSTRUMENT PANEL WIRE**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BY700BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1620/21; Driver Side - Side Airbag Sensor Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1620/21**	**Driver Side - Side Airbag Sensor Circuit Malfunction**

DESCRIPTION

The side airbag sensor assembly LH consists of parts such as the safing sensor, the diagnostic circuit and the lateral deceleration sensor.

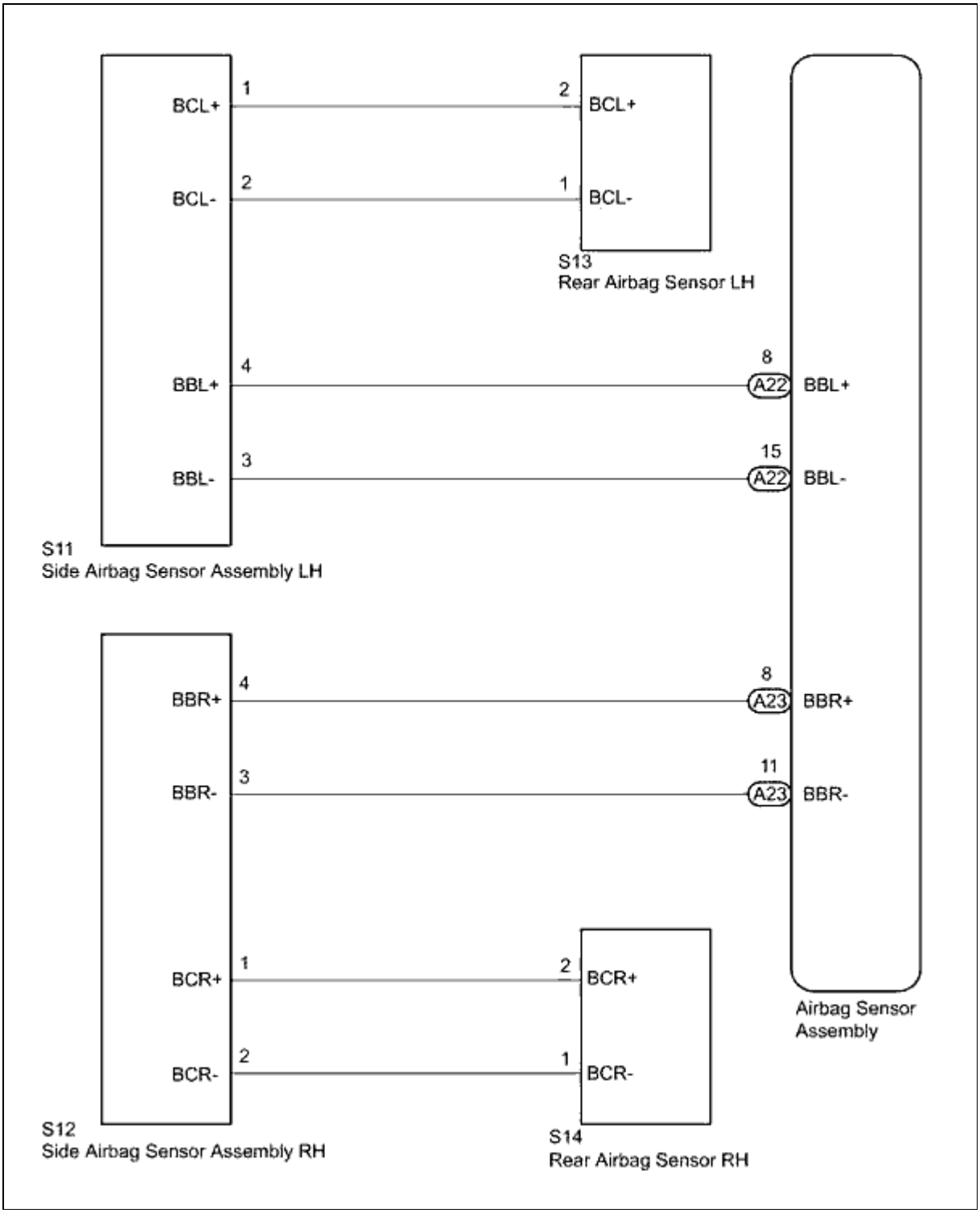
When the airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1620/21 is set when a malfunction is detected in the side airbag sensor assembly LH and rear airbag sensor LH circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1620/21	• The airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the side airbag sensor assembly LH and rear airbag sensor LH circuit for 2 seconds • Side airbag sensor assembly LH malfunction • Rear airbag sensor LH malfunction • Airbag sensor assembly malfunction	• Side airbag sensor assembly LH • Rear airbag sensor LH • Airbag sensor assembly • No. 2 floor wire

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

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1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the side airbag sensor assembly LH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

2.	**CHECK CONNECTORS**

(a) Check that the connectors (on the airbag sensor assembly side and side airbag sensor assembly LH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

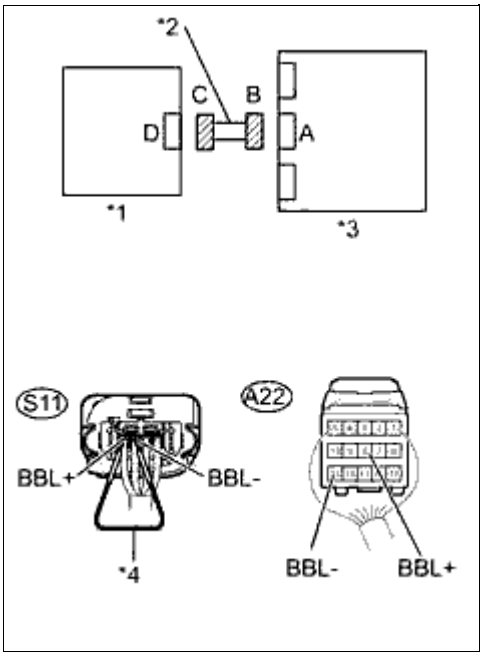
NG ▶ **REPLACE WIRE HARNESS**

OK ▼

3.	**CHECK NO. 2 FLOOR WIRE (FOR OPEN)**

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(a) Disconnect the connectors from the airbag sensor assembly and the side airbag sensor assembly LH.



(b) Using service wire, connect S11-4 (BBL+) and S11-3 (BBL-) of connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A22-8 (BBL+) - A22-15 (BBL-)	Always	Below 1 Ω

Text in Illustration

*1	Side Airbag Sensor Assembly LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly
*4	Service Wire

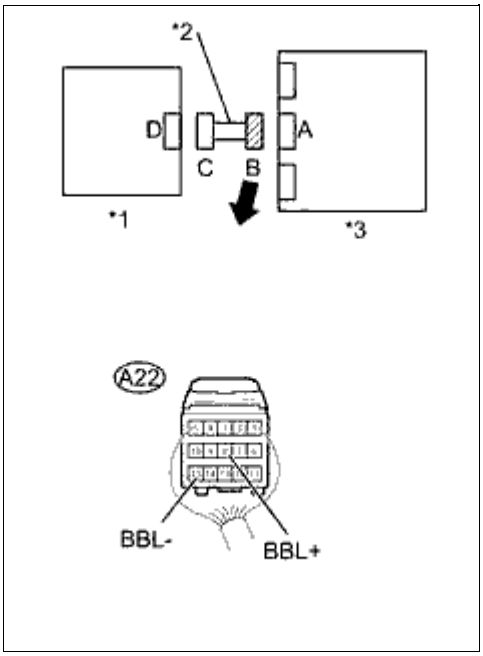
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK
▼

4.	**CHECK NO. 2 FLOOR WIRE (FOR SHORT)**

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(a) Disconnect the service wire from connector C.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A22-8 (BBL+) - A22-15 (BBL-)	Always	1 MΩ or Higher

Text in Illustration

*1	Side Airbag Sensor Assembly LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

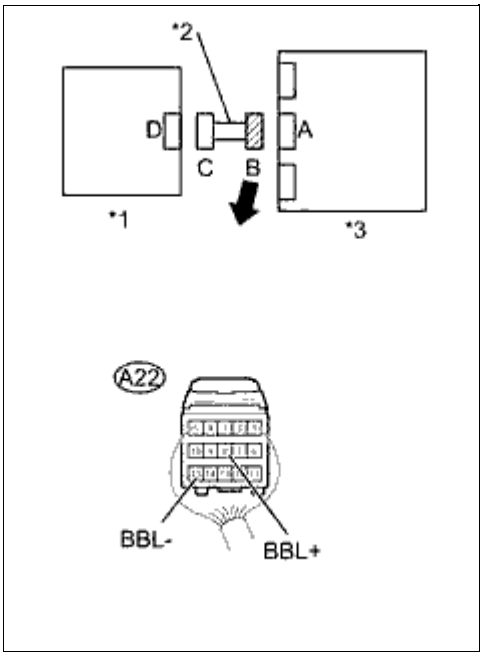
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

5.	**CHECK NO. 2 FLOOR WIRE (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A22-8 (BBL+) - Body ground	Ignition switch ON	Below 1 V
A22-15 (BBL-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Side Airbag Sensor Assembly LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

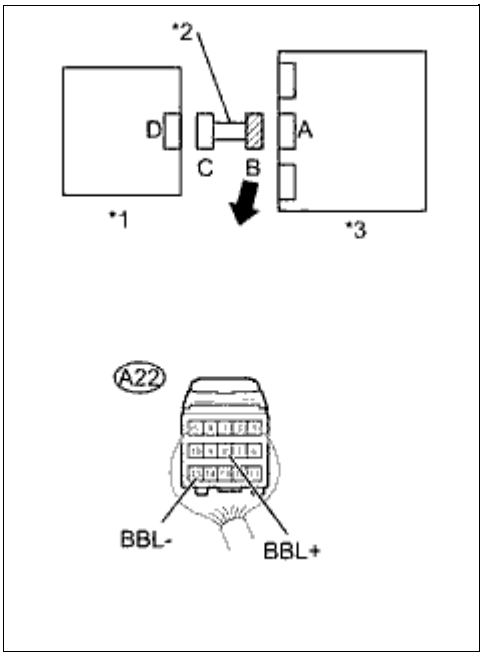
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

6.	**CHECK NO. 2 FLOOR WIRE (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A22-8 (BBL+) - Body ground	Always	1 MΩ or Higher
A22-15 (BBL-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Side Airbag Sensor Assembly LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

7.	**CHECK SIDE AIRBAG SENSOR ASSEMBLY LH**

(a) Connect the connectors to the airbag sensor assembly.

(b) Interchange the side airbag sensor assembly RH with the side airbag sensor assembly LH and connect the connectors to them.

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

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear the DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1620/21 is output.	A
DTC B1625/22 is output.	B
Neither DTC B1620/21 nor B1625/22 is output.	C

B ▶ **REPLACE REAR AIRBAG SENSOR LH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

8.	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the rear airbag sensor LH.

OK:
The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

9.	CHECK CONNECTORS

(a) Check that the connectors (on the side airbag sensor assembly LH side and rear airbag sensor LH

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side) are not damaged INFO .

OK:

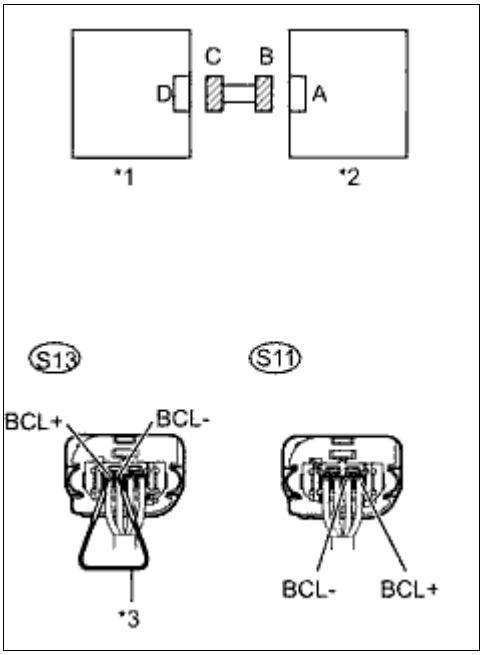
The connectors are not deformed or damaged.

NG ▶ **REPLACE WIRE HARNESS**

OK ▼

10.	**CHECK NO. 2 FLOOR WIRE (FOR OPEN)**

(a) Disconnect the connectors from the side airbag sensor assembly LH and the rear airbag sensor LH.



(b) Using service wire, connect S13-1 (BCL-) and S13-2 (BCL+) of connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - S11-2 (BCL-)	Always	Below 1 Ω

Text in Illustration

*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH
*3	Service Wire

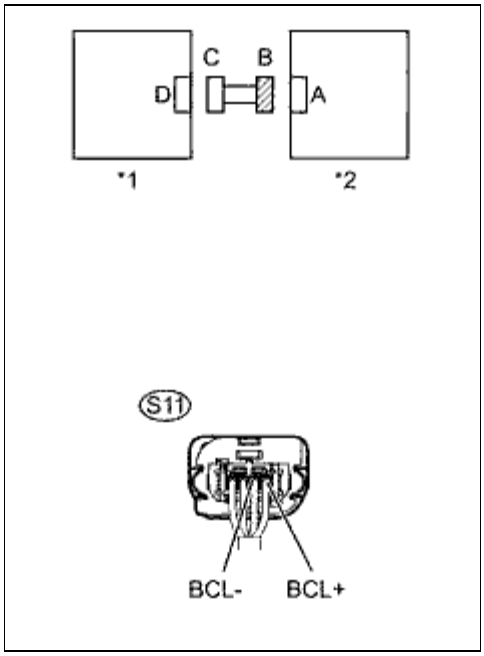
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

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OK

11.	**CHECK NO. 2 FLOOR WIRE (FOR SHORT)**

(a) Disconnect the service wire from connector C.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - S11-2 (BCL-)	Always	1 MΩ or Higher

Text in Illustration

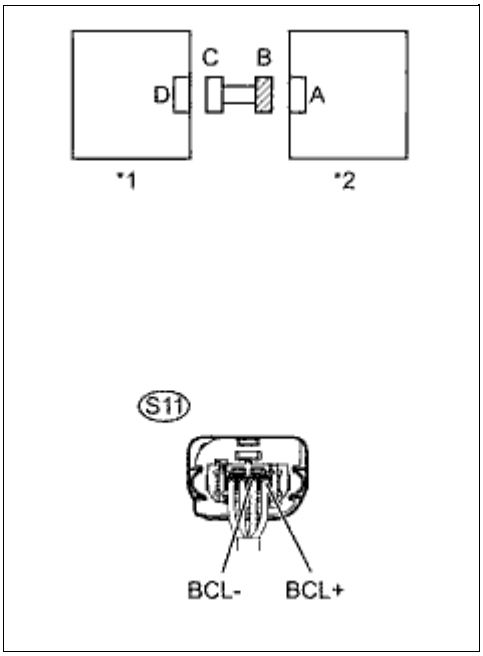
*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK

12.	**CHECK NO. 2 FLOOR WIRE (TO B+)**

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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - Body ground	Ignition switch ON	Below 1 V
S11-2 (BCL-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH

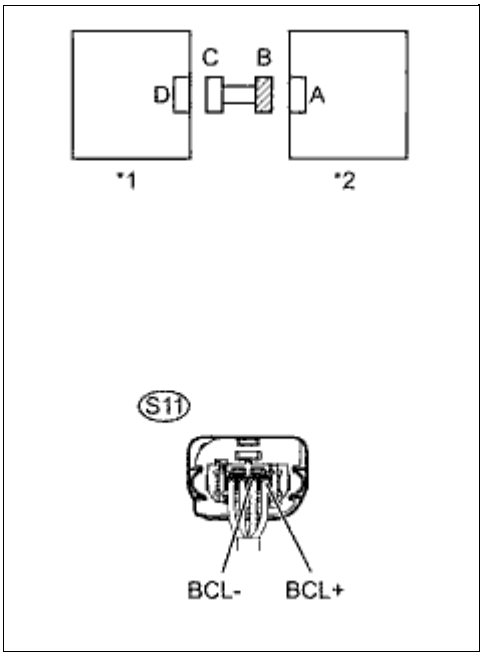
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

13.	**CHECK NO. 2 FLOOR WIRE (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - Body ground	Always	1 MΩ or Higher
S11-2 (BCL-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

14.	**CHECK DTC**

(a) Connect the connectors to the airbag sensor assembly.

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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

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(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:
DTC B1620/21 is not output.

HINT:

DTCs other than B1620/21 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **REPLACE REAR AIRBAG SENSOR LH**

A ▼

15.	**REPLACE AIRBAG SENSOR ASSEMBLY**

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:
B1620/21 is not output.

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HINT:

DTCs other than B1620/21 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH**

OK ▶ **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BY700DX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1625/22; Front Passenger Side - Side Airbag Sensor Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

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

DESCRIPTION

The side airbag sensor assembly RH consists of parts such as the safing sensor, the diagnostic circuit and the lateral deceleration sensor.

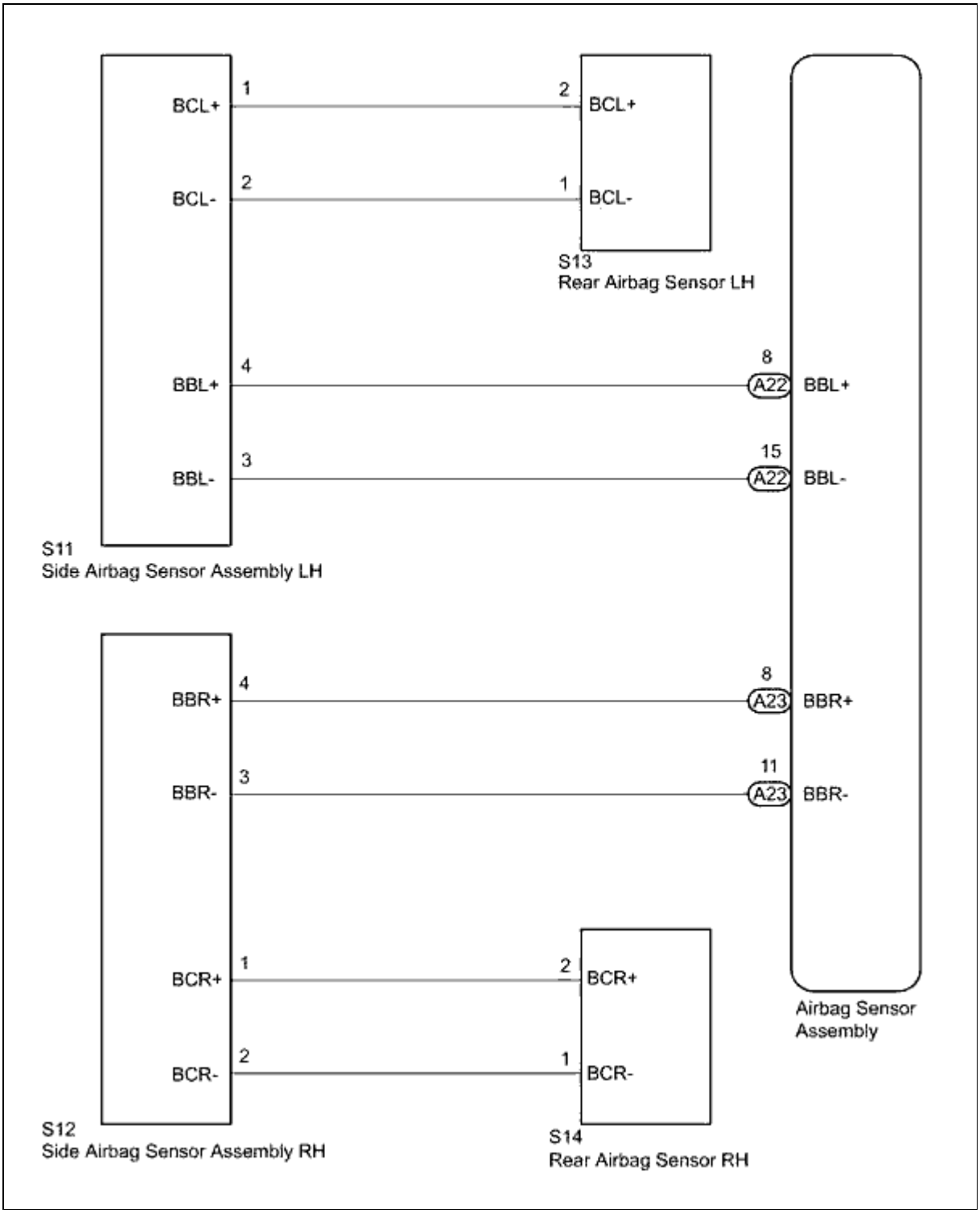
When the airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1625/22 is set when a malfunction is detected in the side airbag sensor assembly RH and rear airbag sensor RH circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1625/22	• The airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the side airbag sensor assembly RH and rear airbag sensor RH circuit for 2 seconds • Side airbag sensor assembly RH malfunction • Rear airbag sensor RH malfunction • Airbag sensor assembly malfunction	• Side airbag sensor assembly RH • Rear airbag sensor RH • Airbag sensor assembly • Floor wire

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

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1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the side airbag sensor assembly RH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

2.	**CHECK CONNECTORS**

(a) Check that the connectors (on the airbag sensor assembly side and side airbag sensor assembly RH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

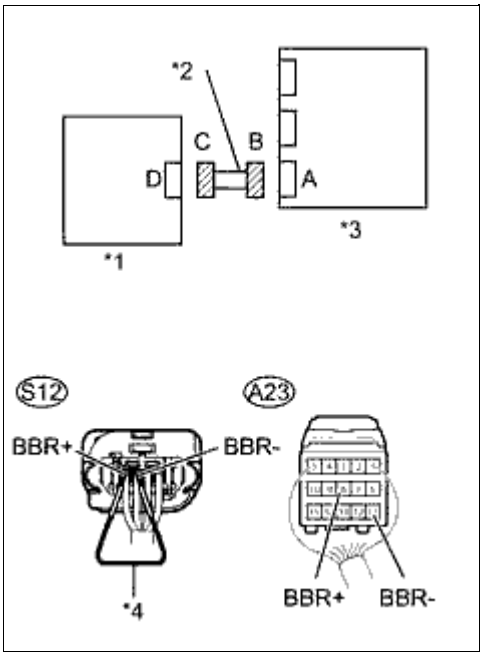
NG ▶ **REPLACE WIRE HARNESS**

OK ▼

3.	**CHECK FLOOR WIRE (FOR OPEN)**

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(a) Disconnect the connectors from the airbag sensor assembly and the side airbag sensor assembly RH.



(b) Using service wire, connect S12-4 (BBR+) and S12-3 (BBR-) of connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-8 (BBR+) - A23-11 (BBR-)	Always	Below 1 Ω

Text in Illustration

*1	Side Airbag Sensor Assembly RH
*2	Floor Wire
*3	Airbag Sensor Assembly
*4	Service Wire

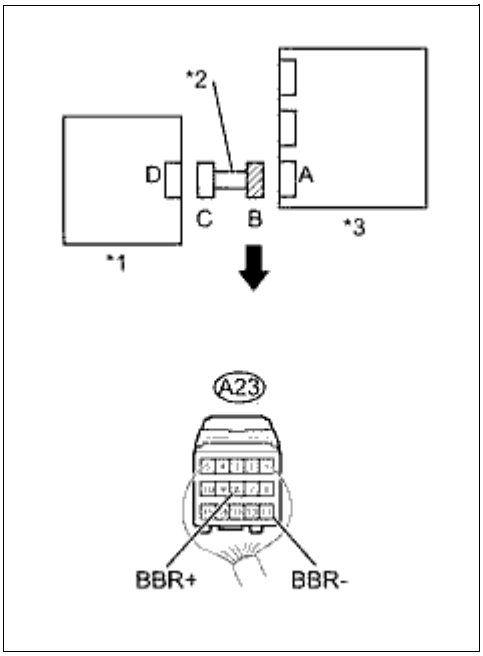
NG ▶ **REPLACE FLOOR WIRE**

OK
▼

4.	**CHECK FLOOR WIRE (FOR SHORT)**

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(a) Disconnect the service wire from connector C.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-8 (BBR+) - A23-11 (BBR-)	Always	1 MΩ or Higher

Text in Illustration

*1	Side Airbag Sensor Assembly RH
*2	Floor Wire
*3	Airbag Sensor Assembly

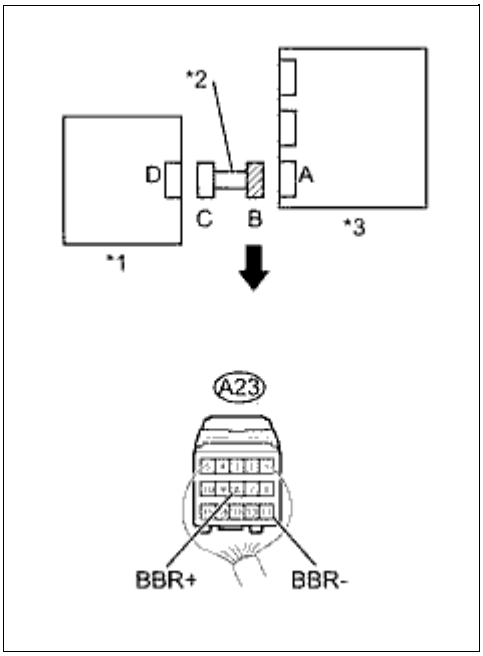
NG ▶ **REPLACE FLOOR WIRE**

OK ▼

5.	**CHECK FLOOR WIRE (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A23-8 (BBR+) - Body ground	Ignition switch ON	Below 1 V
A23-11 (BBR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Side Airbag Sensor Assembly RH
*2	Floor Wire
*3	Airbag Sensor Assembly

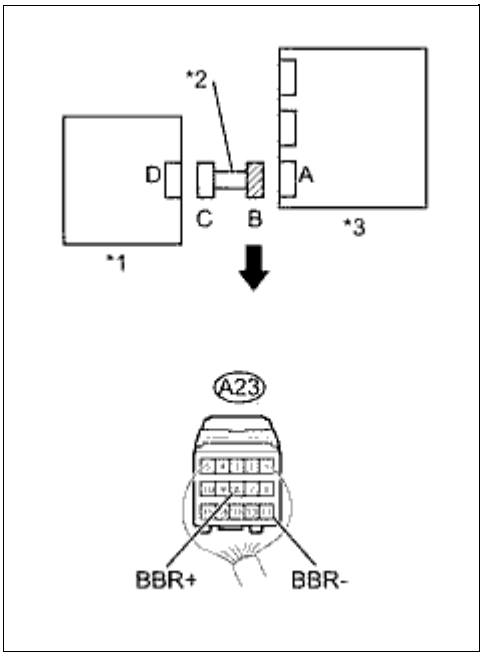
NG ▶ **REPLACE FLOOR WIRE**

OK
▼

6.	**CHECK FLOOR WIRE (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-8 (BBR+) - Body ground	Always	1 MΩ or Higher
A23-11 (BBR-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Side Airbag Sensor Assembly RH
*2	Floor Wire
*3	Airbag Sensor Assembly

NG ▶ **REPLACE FLOOR WIRE**

OK
▼

7.	**CHECK SIDE AIRBAG SENSOR ASSEMBLY RH**

(a) Connect the connectors to the airbag sensor assembly.

(b) Interchange the side airbag sensor assembly RH with the side airbag sensor assembly LH and connect the connectors to them.

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

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1625/22 is output.	A
DTC B1620/21 is output.	B
Neither DTC B1620/21 nor B1625/22 is output.	C

B ▶ **REPLACE REAR AIRBAG SENSOR RH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

8.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the side airbag sensor assembly RH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

9.	**CHECK CONNECTORS**

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(a) Check that the connectors (on the side airbag sensor assembly RH side and rear airbag sensor RH side) are not damaged INFO .

OK:

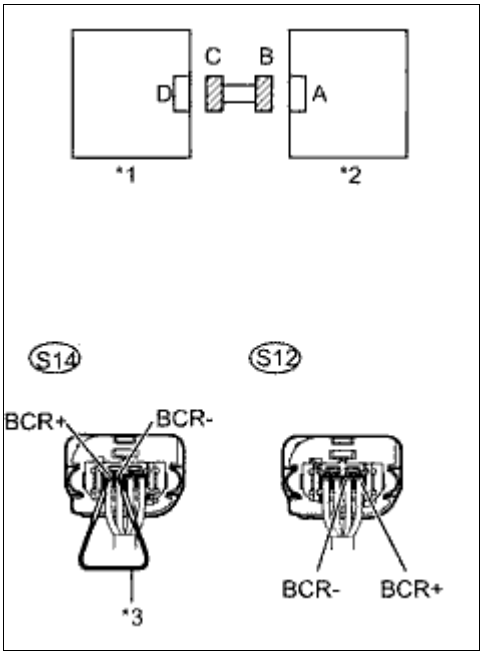
The connectors are not deformed or damaged.

NG ▶ **REPLACE WIRE HARNESS**

OK ▼

10.	**CHECK FLOOR WIRE (FOR OPEN)**

(a) Disconnect the connectors from the side airbag sensor assembly RH and the rear airbag sensor RH.



(b) Using service wire, connect S14-1 (BCR-) and S14-2 (BCR+) of connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - S12-2 (BCR-)	Always	Below 1 Ω

Text in Illustration

*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH
*3	Service Wire

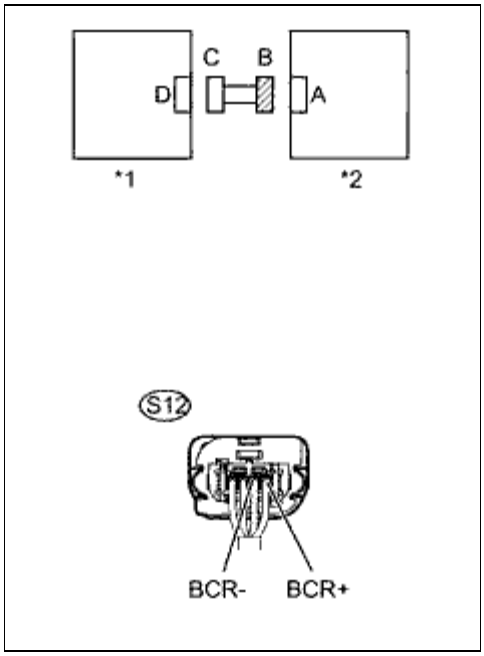
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NG ▶ REPLACE FLOOR WIRE

OK ▼

11.	CHECK FLOOR WIRE (FOR SHORT)

(a) Disconnect the service wire from connector C.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - S12-2 (BCR-)	Always	1 MΩ or Higher

Text in Illustration

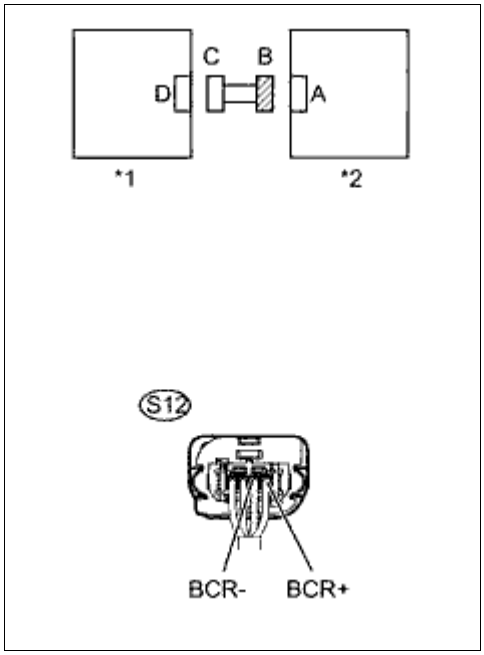
*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH

NG ▶ REPLACE FLOOR WIRE

OK ▼

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12.	**CHECK FLOOR WIRE (TO B+)**



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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - Body ground	Ignition switch ON	Below 1 V
S12-2 (BCR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH

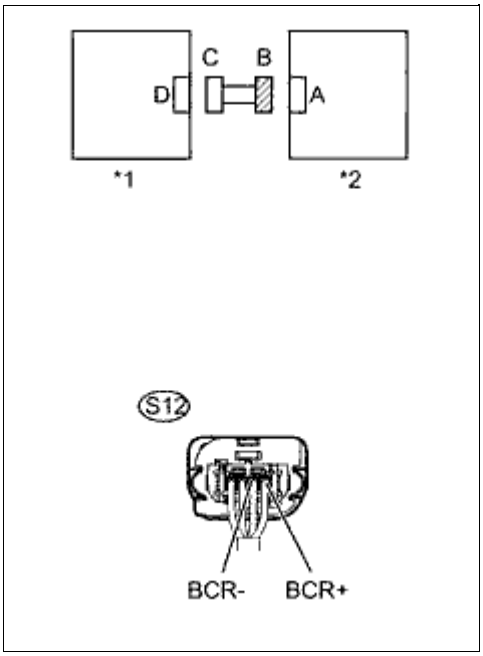
NG ▶ **REPLACE FLOOR WIRE**

OK
▼

13.	**CHECK FLOOR WIRE (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - Body ground	Always	1 MΩ or Higher
S12-2 (BCR-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH

NG ▶ **REPLACE FLOOR WIRE**

OK ▼

14.	**CHECK DTC**

(a) Connect the connectors to the airbag sensor assembly.

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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

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(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:
DTC B1625/22 is not output.

HINT:

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

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **REPLACE REAR AIRBAG SENSOR RH**

A ▼

15.	**CHECK SIDE AIRBAG SENSOR ASSEMBLY RH**

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

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

(e) Turn the ignition switch to ON, and wait for at least 60 seconds.

(f) Clear any DTCs stored in the memory INFO .

(g) Turn the ignition switch off.

(h) Turn the ignition switch to ON, and wait for at least 60 seconds.

(i) Check for DTCs INFO .

OK:
DTC B1625/22 is not output.

HINT:

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

NG ▶ **REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH**

OK ▶ **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BZ400BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1630/23; Driver Side Rear Airbag Sensor Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1630/23**	**Driver Side Rear Airbag Sensor Circuit Malfunction**

DESCRIPTION

The airbag sensor LH consists of parts such as the safing sensor, the diagnostic circuit and the lateral deceleration sensor.

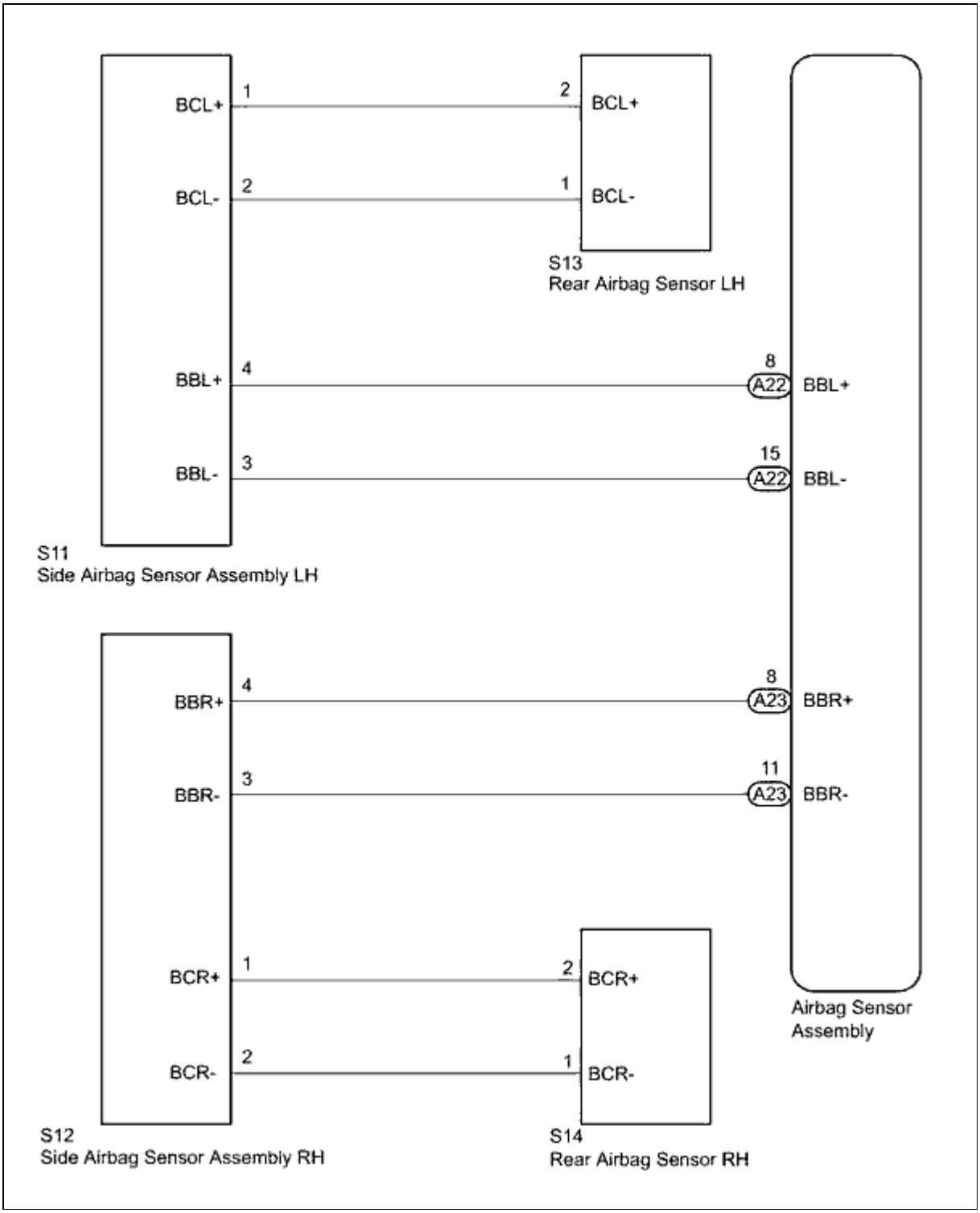
When the airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1630/23 is set when a malfunction is detected in the side airbag sensor assembly LH and rear airbag sensor LH circuit.

DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1630/23	• The airbag sensor assembly receives an open circuit signal in the side airbag sensor assembly LH and rear airbag sensor LH circuit for 2 seconds • Rear airbag sensor LH malfunction • Side airbag sensor assembly LH malfunction • Airbag sensor assembly malfunction	• Rear airbag sensor LH • Side airbag sensor assembly LH • Airbag sensor assembly • No. 2 floor wire

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

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1.	**CHECK CONNECTOR OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the side airbag sensor assembly LH and the rear airbag sensor LH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

2.	**CHECK CONNECTORS**

(a) Check that the connectors (on the side airbag sensor assembly LH side and rear airbag sensor LH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

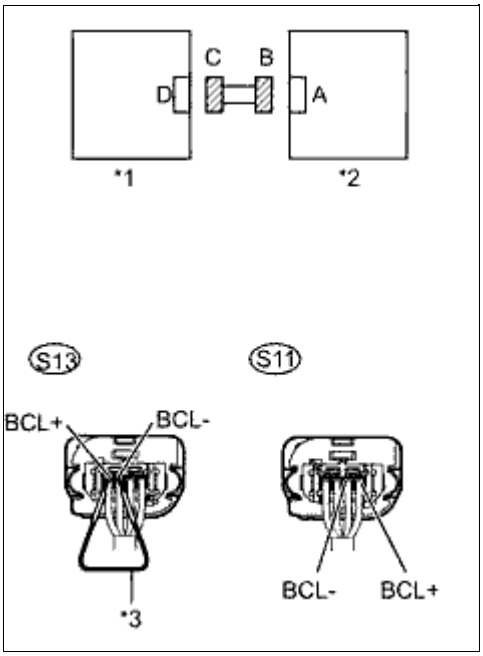
NG ▶ **REPLACE WIRE HARNESS**

OK ▼

3.	**CHECK NO. 2 FLOOR WIRE (FOR OPEN)**

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(a) Disconnect the connectors from the side airbag sensor assembly LH and the rear airbag sensor LH.



(b) Using service wire, connect S13-2 (BCL+) and S13-1 (BCL-) of connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - S11-2 (BCL-)	Always	Below 1 Ω

Text in Illustration

*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH
*3	Service Wire

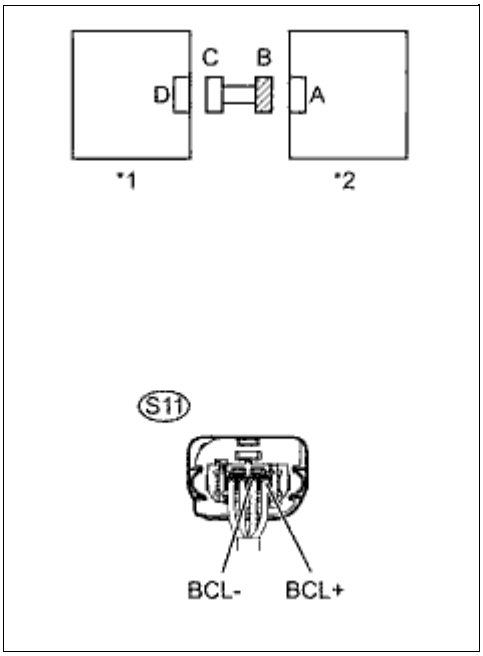
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

4.	**CHECK NO. 2 FLOOR WIRE (FOR SHORT)**

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(a) Disconnect the service wire from connector C.



(b) Disconnect the connectors from the side airbag sensor assembly LH and rear airbag sensor LH.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - S11-2 (BCL-)	Always	1 MΩ or Higher

Text in Illustration

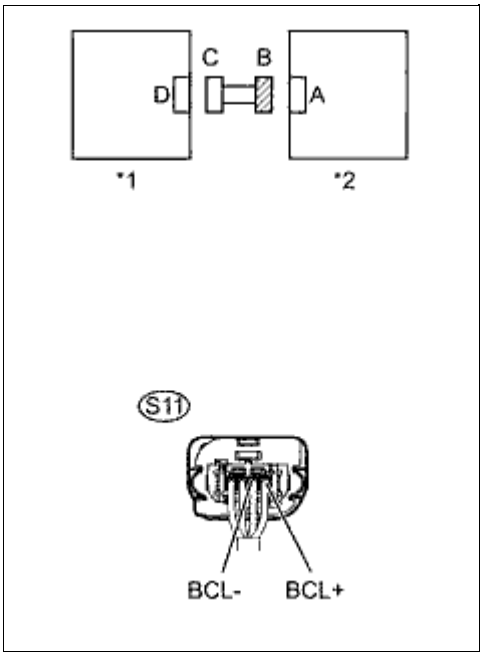
*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK
▼

5.	**CHECK NO. 2 FLOOR WIRE (TO B+)**

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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - Body ground	Ignition switch ON	Below 1 V
S11-2 (BCL-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH

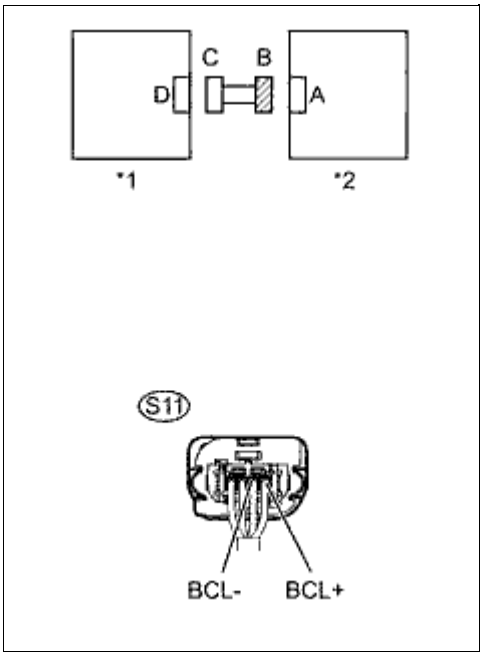
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

6.	**CHECK NO. 2 FLOOR WIRE (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S11-1 (BCL+) - Body ground	Always	1 MΩ or Higher
S11-2 (BCL-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Rear Airbag Sensor LH
*2	Side Airbag Sensor Assembly LH

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

7.	**CHECK REAR AIRBAG SENSOR LH**

(a) Connect the connector to the side airbag sensor assembly LH.

(b) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.

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

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(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1630/23 is output.	A
DTC B1635/24 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

B ▶ **REPLACE REAR AIRBAG SENSOR LH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

8.	**CHECK SIDE AIRBAG SENSOR ASSEMBLY LH**

(a) Turn the ignition switch off.

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

(c) Return the rear airbag sensor LH and RH to their original positions and connect the connectors to them.

(d) Interchange the side airbag sensor assembly LH with the side airbag sensor assembly RH and connect the connectors to them.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

Result

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RESULT	PROCEED TO
DTC B1630/23 is output.	A
DTC B1635/24 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

HINT:

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

B ▶ **REPLACE REAR AIRBAG SENSOR LH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

9.	REPLACE AIRBAG SENSOR ASSEMBLY

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1630/23 is not output.

HINT:

DTCs other than B1630/23 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO

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RESULT	PROCEED TO
NG	A
OK	B

B ▶ **END**

A

10.	CHECK REAR AIRBAG SENSOR LH

(a) Turn the ignition switch off.

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

(c) Replace the rear airbag sensor LH for Double Cab INFO or for Access Cab INFO .

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:
DTC B1630/23 is not output.

HINT:

DTCs other than B1630/23 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH**

OK ▶ **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BZ400DX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1635/24; Front Passenger Side Rear Airbag Sensor Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1635/24**	**Front Passenger Side Rear Airbag Sensor Circuit Malfunction**

DESCRIPTION

The airbag sensor RH consists of parts such as the safing sensor, the diagnostic circuit and the lateral deceleration sensor.

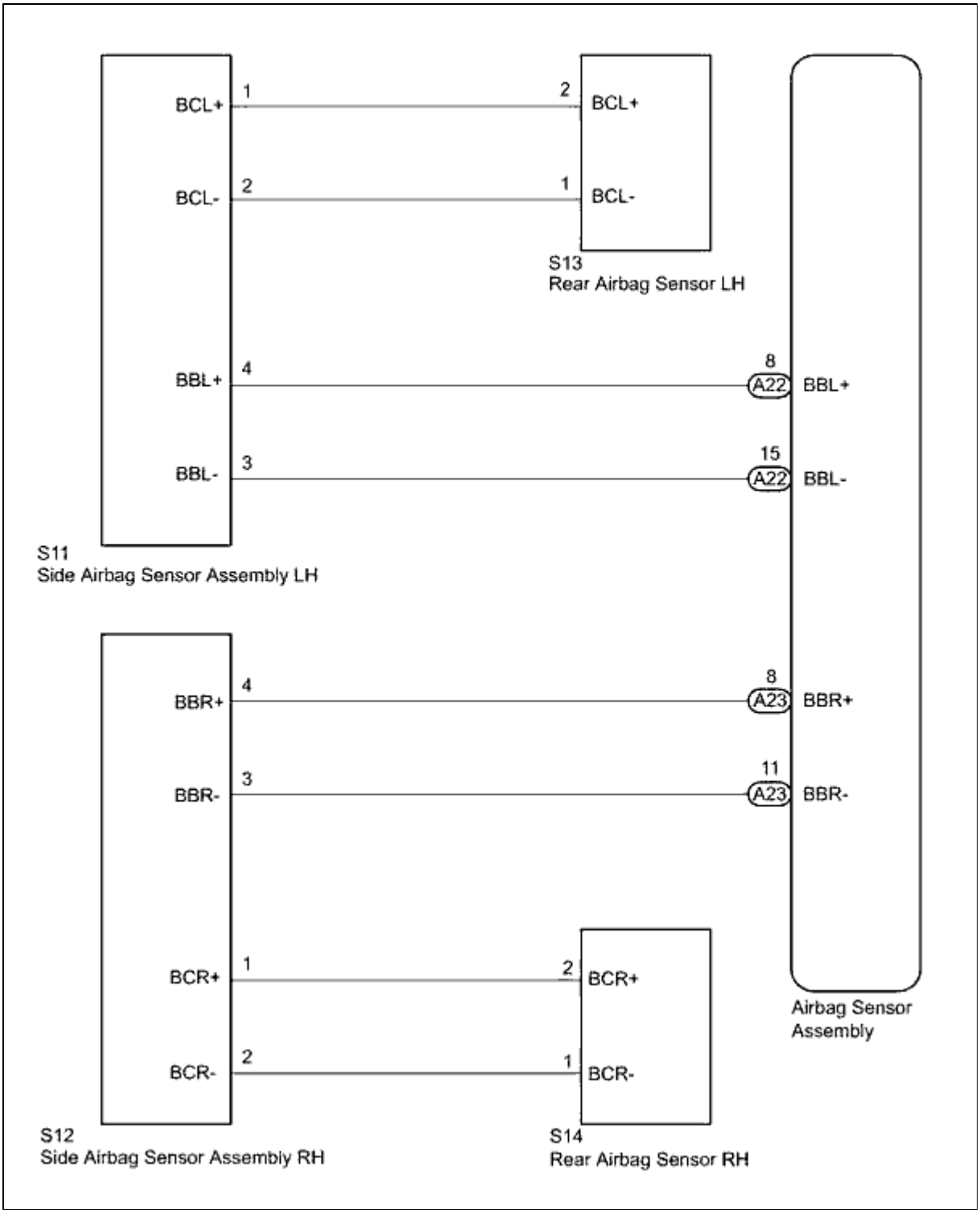
When the airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1635/24 is set when a malfunction is detected in the rear airbag sensor RH and side airbag sensor assembly RH circuit.

DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1635/24	• The airbag sensor assembly receives an open circuit signal in the rear airbag sensor RH and side airbag sensor assembly RH circuit for 2 seconds • Rear airbag sensor RH malfunction • Side airbag sensor assembly RH malfunction • Airbag sensor assembly malfunction	• Rear airbag sensor RH • Side airbag sensor assembly RH • Airbag sensor assembly • Floor wire

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

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1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the side airbag sensor assembly RH and the rear airbag sensor RH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

2.	**CHECK CONNECTORS**

(a) Check that the connectors (on the side airbag sensor assembly RH side and airbag sensor rear RH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

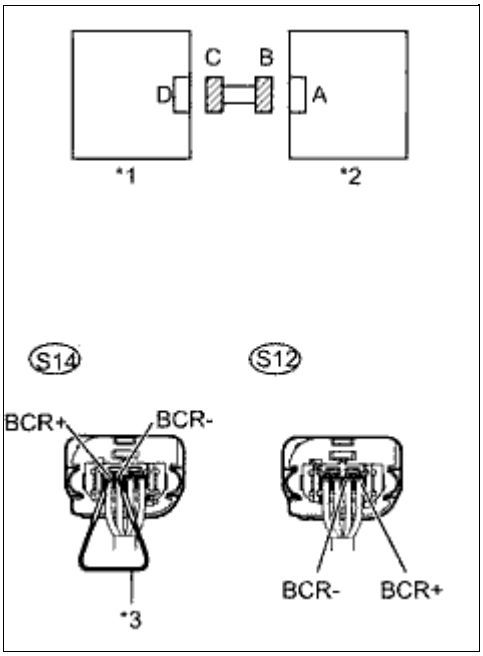
NG ▶ **REPLACE WIRE HARNESS**

OK ▼

3.	**CHECK FLOOR WIRE (FOR OPEN)**

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(a) Disconnect the connectors from the side airbag sensor assembly RH and the rear airbag sensor RH.



(b) Using service wire, connect S14-2 (BCR+) and S14-1 (BCR-) of connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - S12-2 (BCR-)	Always	Below 1 Ω

Text in Illustration

*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH
*3	Service Wire

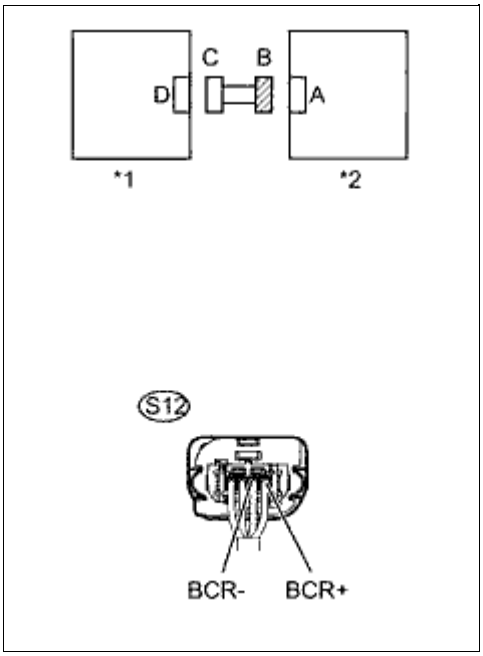
NG ▶ **REPLACE FLOOR WIRE**

OK
▼

4.	**CHECK FLOOR WIRE (FOR SHORT)**

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(a) Disconnect the service wire from connector C.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - S12-2 (BCR-)	Always	1 MΩ or Higher

Text in Illustration

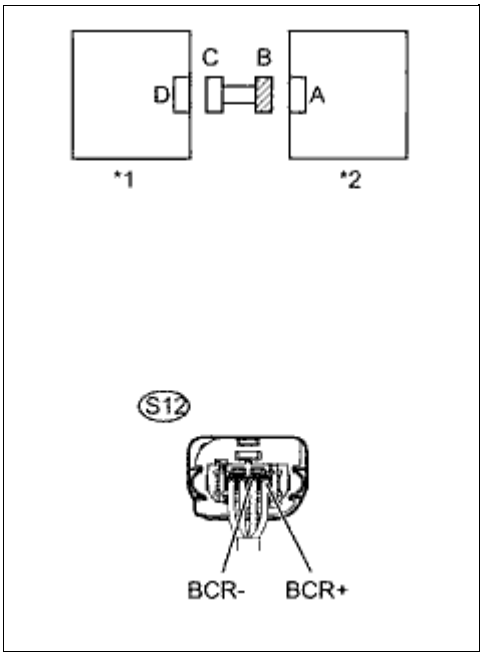
*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH

NG ▶ **REPLACE FLOOR WIRE**

OK
▼

5.	**CHECK FLOOR WIRE (TO B+)**

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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - Body ground	Ignition switch ON	Below 1 V
S12-2 (BCR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH

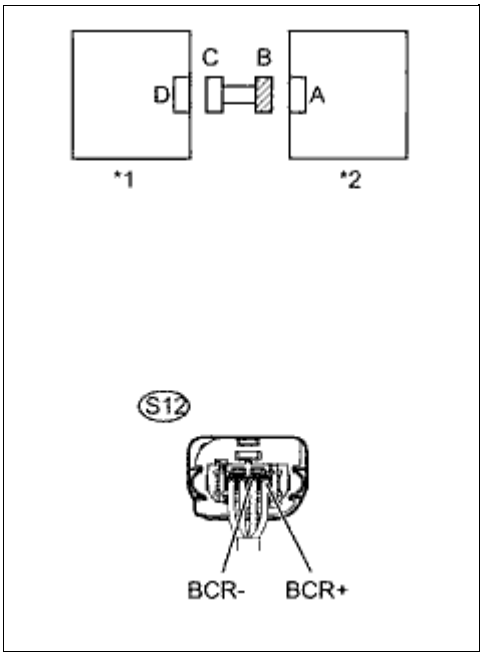
NG ▶ **REPLACE FLOOR WIRE**

OK
▼

6.	**CHECK FLOOR WIRE (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S12-1 (BCR+) - Body ground	Always	1 MΩ or Higher
S12-2 (BCR-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Rear Airbag Sensor RH
*2	Side Airbag Sensor Assembly RH

NG ▶ **REPLACE FLOOR WIRE**

OK
▼

7.	**CHECK REAR AIRBAG SENSOR RH**

(a) Connect the connector to the side airbag sensor assembly RH.

(b) Interchange the rear airbag sensor RH with the rear airbag sensor LH and connect the connectors to them.

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

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(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1635/24 is output.	A
DTC B1630/23 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

B ▶ **REPLACE REAR AIRBAG SENSOR RH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

8.	**CHECK SIDE AIRBAG SENSOR ASSEMBLY RH**

(a) Turn the ignition switch off.

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

(c) Return the rear airbag sensor LH and RH to their original positions and connect the connectors to them.

(d) Interchange the side airbag sensor assembly RH with the side airbag sensor assembly LH and connect the connectors to them.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

Result

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RESULT	PROCEED TO
DTC B1635/24 is output.	A
DTC B1630/23 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

B ▶ **REPLACE REAR AIRBAG SENSOR RH**

C ▶ **USE SIMULATION METHOD TO CHECK**

A

▼

9.	REPLACE AIRBAG SENSOR ASSEMBLY

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1635/24 is not output.

HINT:

DTCs other than B1635/24 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

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B ▶ END

A ▼

10.	**REPLACE REAR AIRBAG SENSOR RH**

(a) Turn the ignition switch off.

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

(c) Replace the rear airbag sensor RH for Double Cab INFO or for Access Cab INFO .

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1635/24 is not output.

HINT:

DTCs other than B1635/24 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH**

OK ▶ **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BY600CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1650/32; Occupant Classification System Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1650/32**	**Occupant Classification System Malfunction**

DESCRIPTION

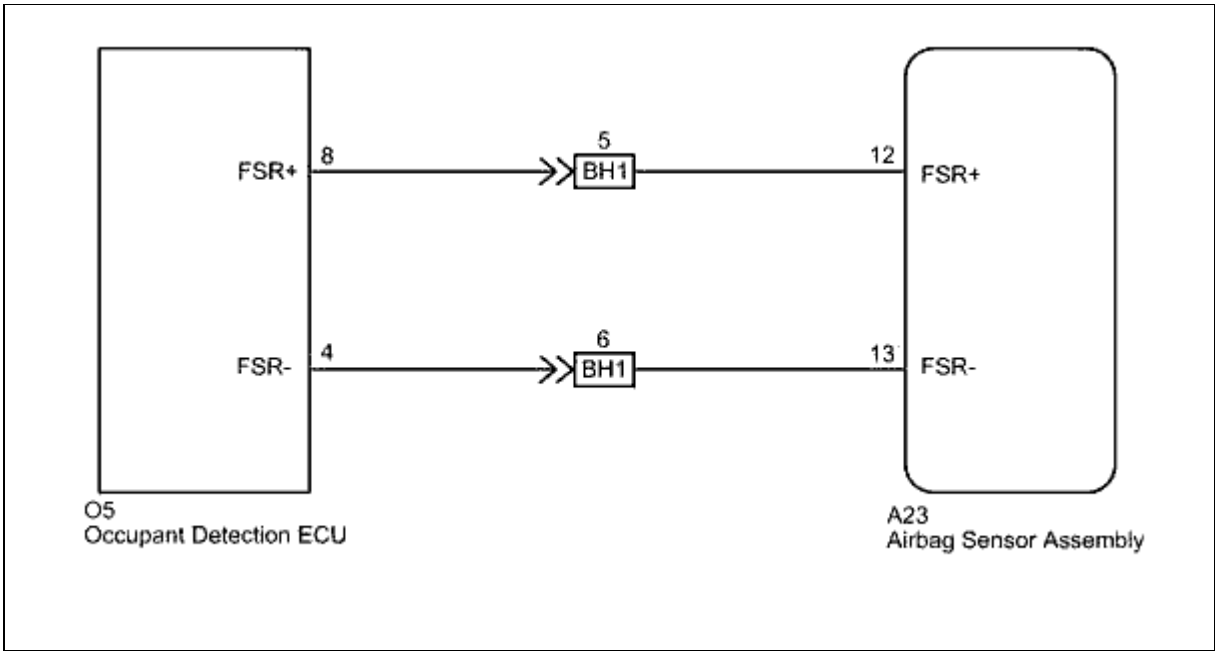
The occupant classification system circuit consists of the airbag sensor assembly and the occupant classification system.

When the airbag sensor assembly receives signals from the occupant detection ECU, it determines whether or not the instrument panel passenger without door airbag assembly, front seat airbag assembly RH and seat belt pretensioner RH should be operated.

DTC B1650/32 is set when a malfunction is detected in the occupant classification system circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1650/32	• Occupant classification system malfunction • The airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the occupant classification system circuit for 2 seconds • Airbag sensor assembly malfunction	• Occupant classification system • Airbag sensor assembly • Floor wire • No. 1 seat wire

WIRING DIAGRAM



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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

1.	**CHECK DTC (AIRBAG SENSOR ASSEMBLY)**

(a) Turn the ignition switch to ON.

(b) Clear any DTCs stored in the memory INFO .

(c) Turn the ignition switch off.

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Check for DTCs INFO .

OK:

DTC B1650/32 is not output.

HINT:

DTCs other than B1650/32 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **USE SIMULATION METHOD TO CHECK**

A ▼

2.	**CHECK DTC (OCCUPANT DETECTION ECU)**

(a) Turn the ignition switch to ON, and wait for at least 10 seconds.

(b) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC is not output.

NG ▶ **GO TO DTC CHART**

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OK

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the occupant detection ECU.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK

4.	**CHECK CONNECTORS**

(a) Check that the connectors (on the airbag sensor assembly side and occupant detection ECU side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

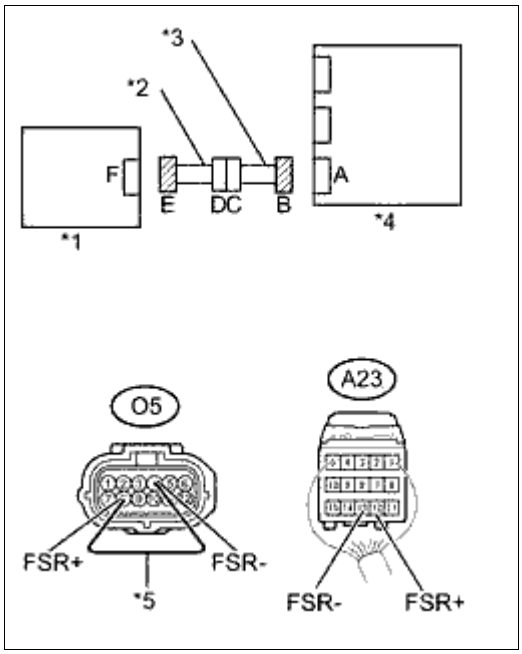
NG ▶ **REPLACE WIRE HARNESS**

OK

5.	**CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (FOR OPEN)**

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(a) Disconnect the connectors from the airbag sensor assembly and the occupant detection ECU.



(b) Separate Seat :

Using a service wire, connect O5-8 (FSR+) and O5-4 (FSR-) of connector E.

NOTICE:

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - A23-13 (FSR-)	Always	Below 1 Ω

Text in Illustration

*1	Occupant Detection ECU
*2	No. 1 Seat Wire
*3	Floor Wire
*4	Airbag Sensor Assembly
*5	Service Wire

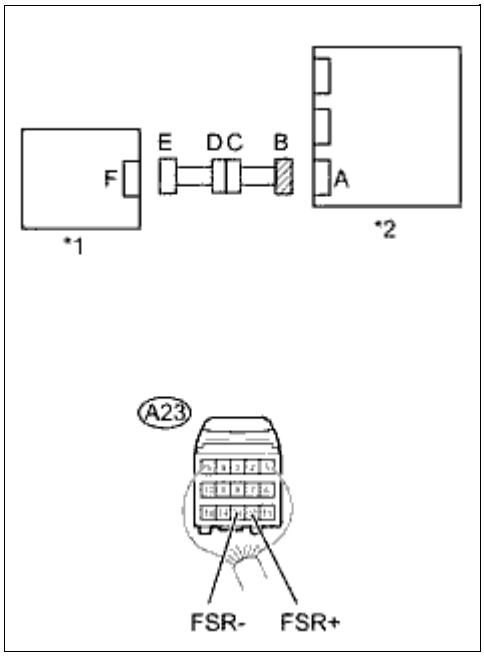
NG ▶ **GO TO STEP 13**

OK ▼

6.	**CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (FOR SHORT)**

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(a) Disconnect the service wire from connector E.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - A23-13 (FSR-)	Always	1 MΩ or Higher

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly

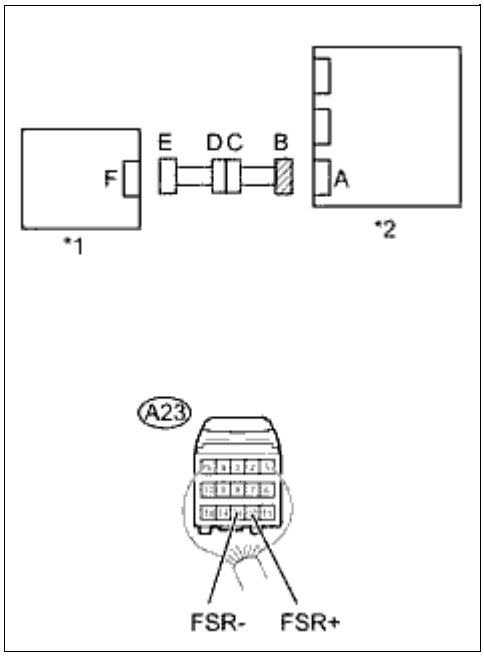
NG ▶ **GO TO STEP 14**

OK ▼

7.	**CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - Body ground	Ignition switch ON	Below 1 V
A23-13 (FSR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly

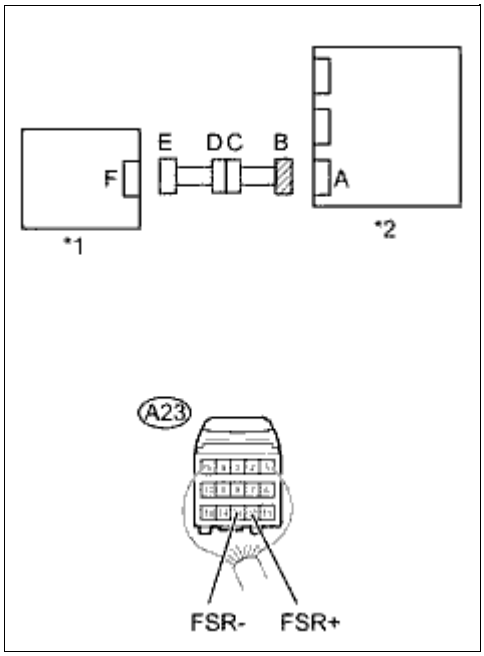
NG ▶ **GO TO STEP 15**

OK ▼

8.	**CHECK OCCUPANT CLASSIFICATION SYSTEM CIRCUIT (TO GROUND)**

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(a) Turn the ignition switch off.



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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - Body ground	Always	1 MΩ or Higher
A23-13 (FSR-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly

NG ▶ **GO TO STEP 16**

OK ▼

9.	**CHECK AIRBAG SENSOR ASSEMBLY**

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

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HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1650/32 is output	A
DTC B1650/32 is not output	B

HINT:

DTCs other than B1650/32 may be output at this time, but they are not related to this check.

B ▶ **END**

A

▼

10.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch off.

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

(c) Replace the occupant detection ECU INFO .

NEXT

▼

11.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

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(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

COMPLETED is displayed on the tester.

NEXT

12.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

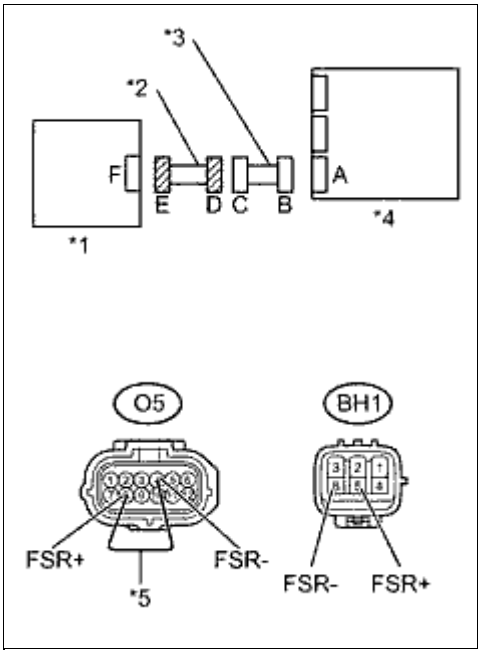
Standard Value:

27 to 33 kg (59.52 to 72.75 lb)

NEXT **END**

13.	CHECK NO. 1 SEAT WIRE (FOR OPEN)

(a) Disconnect the No. 1 seat wire connector from the instrument panel wire.



HINT:

The service wire has already been inserted into connector E.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - BH1-6 (FSR-)	Always	Below 1 Ω

Text in Illustration

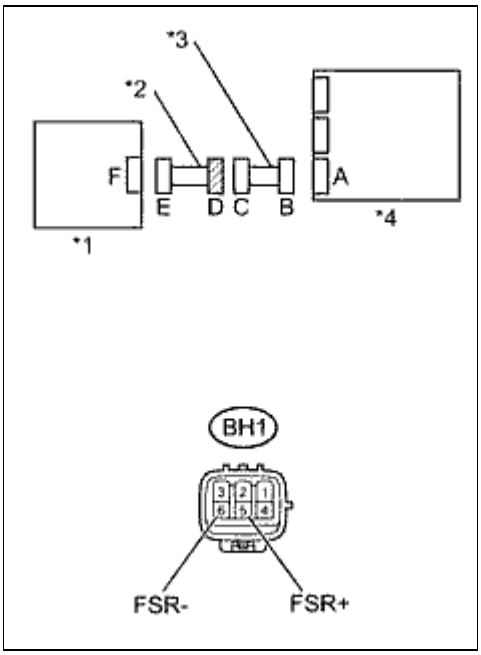
*1	Occupant Detection ECU
*2	No. 1 Seat Wire
*3	Floor Wire
*4	Airbag Sensor Assembly
*5	Service Wire

NG ▶ **REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPLACE FLOOR WIRE**

14.	CHECK NO. 1 SEAT WIRE (FOR SHORT)

(a) Disconnect the No. 1 seat wire connector from the instrument panel wire.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - BH1-6 (FSR-)	Always	1 MΩ or Higher

Text in Illustration

*1	Occupant Detection ECU

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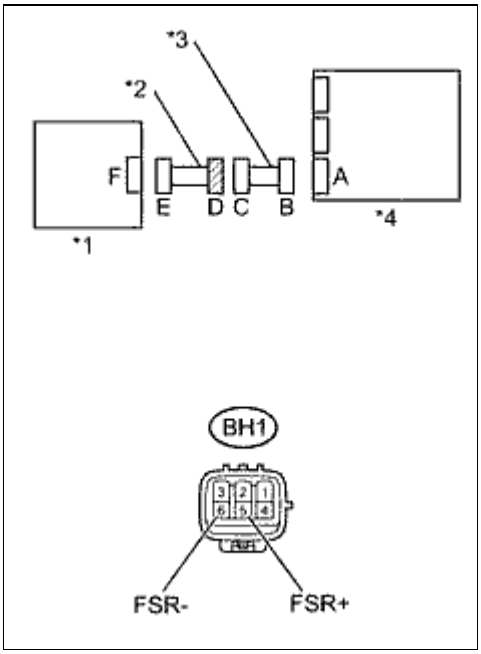
*2	No. 1 Seat Wire
*3	Floor Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPLACE FLOOR WIRE**

15.	**CHECK NO. 1 SEAT WIRE (TO B+)**

(a) Disconnect the No. 1 seat wire connector from the instrument panel wire.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - Body ground	Ignition switch ON	Below 1 V
BH1-6 (FSR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Occupant Detection ECU
*2	No. 1 Seat Wire
*3	Floor Wire

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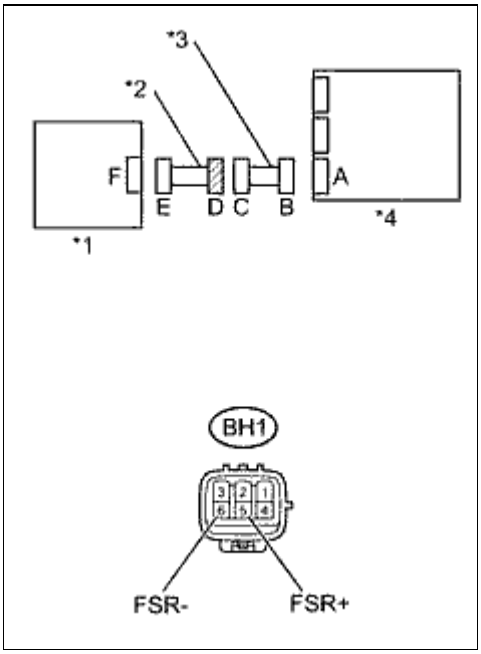
*4	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPLACE FLOOR WIRE**

16.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

(a) Disconnect the No. 1 seat wire connector from the instrument panel wire.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - Body ground	Always	1 MΩ or Higher
BH1-6 (FSR-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Occupant Detection ECU
*2	No. 1 Seat Wire
*3	Floor Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPLACE FLOOR WIRE**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YTS0E7X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1653/35; Seat Position Airbag Sensor Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1653/35**	**Seat Position Airbag Sensor Circuit Malfunction**

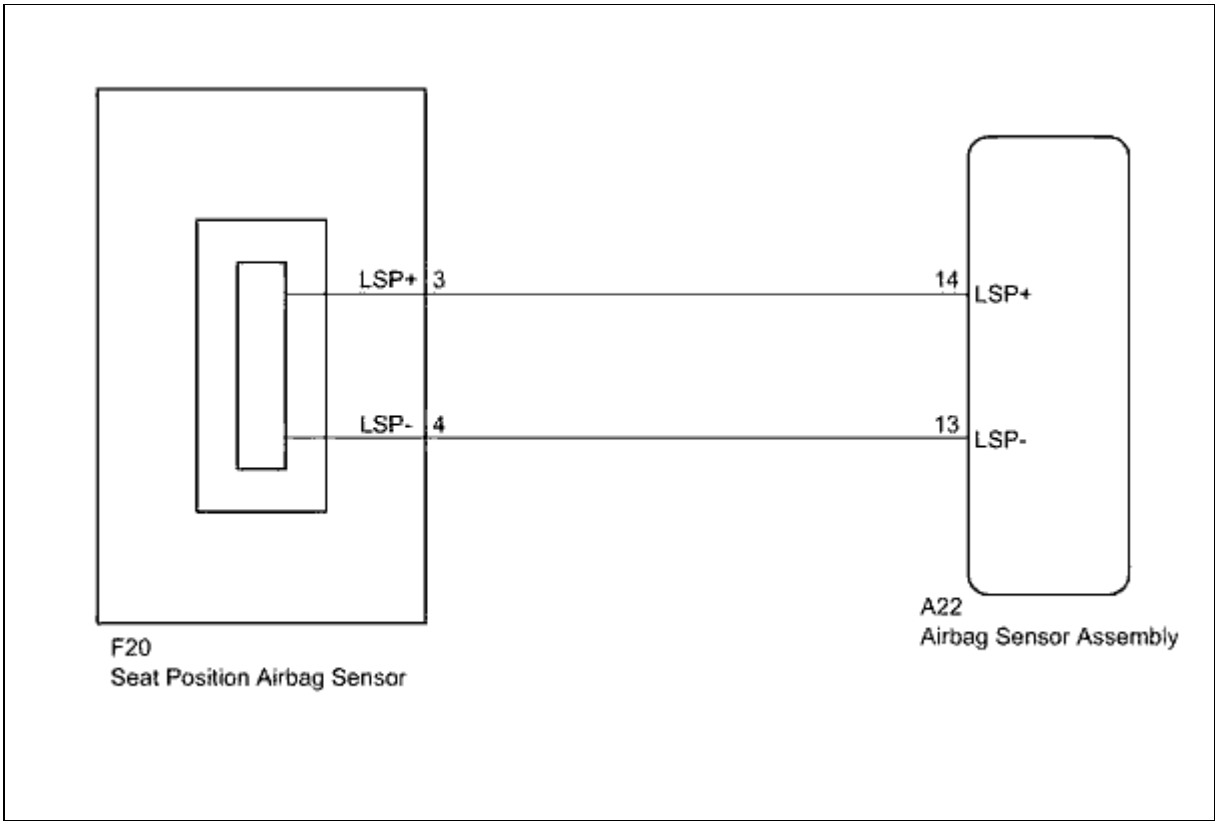
DESCRIPTION

The seat position airbag sensor circuit consists of the airbag sensor assembly and the seat position airbag sensor.

DTC B1653/35 is stored when a malfunction is detected in the seat position airbag sensor assembly circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B1653/35	• The airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the seat position airbag sensor assembly circuit for 2 seconds. • Seat position airbag sensor malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Seat position airbag sensor • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

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NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the seat position airbag sensor.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

2.	**CHECK CONNECTORS**

(a) Disconnect the connector from the airbag sensor assembly.

(b) Disconnect the connector from the seat position airbag sensor.

(c) Check that the connectors (on the airbag sensor assembly side and seat position airbag sensor side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

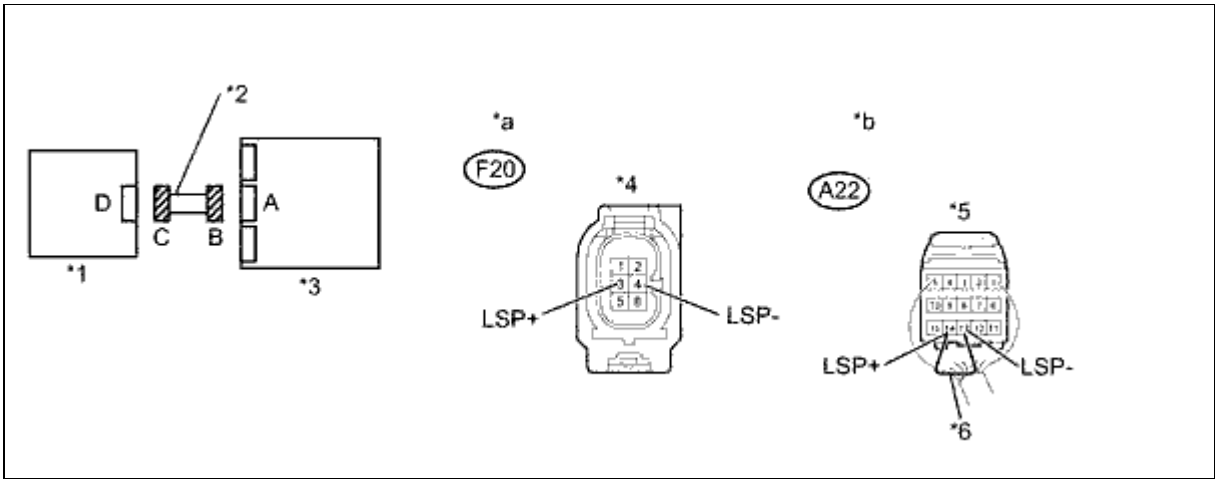
CONDITION	PROCEED TO
Normal	A
Abnormal	B

B ▶ **REPLACE HARNESS OR CONNECTOR**

A ▼

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3.	**CHECK NO. 2 FLOOR WIRE (AIRBAG SENSOR ASSEMBLY - SEAT POSITION AIRBAG SENSOR)**



Text in Illustration

*1	Seat Position Airbag Sensor	*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly	*4	Connector C
*5	Connector B	*6	Service Wire
*a	Front view of wire harness connector (to Seat Position Airbag Sensor)	*b	Rear view of wire harness connector (to Airbag Sensor Assembly)

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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F20-3 (LSP+) - Body ground	Ignition switch ON	Below 1 V
F20-4 (LSP-) - Body ground	Ignition switch ON	Below 1 V

(d) Turn the ignition switch off.

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

(f) Using a service wire, connect terminals 13 (LSP-) and 14 (LSP+) of connector B.

NOTICE:

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F20-3 (LSP+) - F20-4 (LSP-)	Always	Below 1 Ω

(h) Disconnect the service wire from connector B.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F20-3 (LSP+) - F20-4 (LSP-)	Always	1 MΩ or Higher
F20-3 (LSP+) - Body ground	Always	1 MΩ or Higher
F20-4 (LSP-) - Body ground	Always	1 MΩ or Higher

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

4.	**CHECK SEAT POSITION AIRBAG SENSOR**

(a) Connect the connectors to the airbag sensor assembly.

(b) Connect the connector to the seat position airbag sensor.

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

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

OK:

DTC B1653/35 is not output.

HINT:

DTCs other than B1653/35 may be output at this time, but they are not related to this check.

NG ▶ **GO TO STEP 5**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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5.	REPLACE SEAT POSITION AIRBAG SENSOR

(a) Turn the ignition switch off.

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

(c) Replace the seat position airbag sensor INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT

6.	CHECK AIRBAG SENSOR ASSEMBLY

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

(b) Turn the ignition switch to ON, and wait for at least 60 seconds.

(c) Clear the DTCs INFO .

(d) Turn the ignition switch off.

(e) Turn the ignition switch to ON, and wait for at least 60 seconds.

(f) Check for DTCs INFO .

OK:

DTC B1653/35 is not output.

HINT:

DTCs other than B1653/35 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▶ **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BY900CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1656/38; Seat Belt Buckle Switch LH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1656/38**	**Seat Belt Buckle Switch LH Circuit Malfunction**

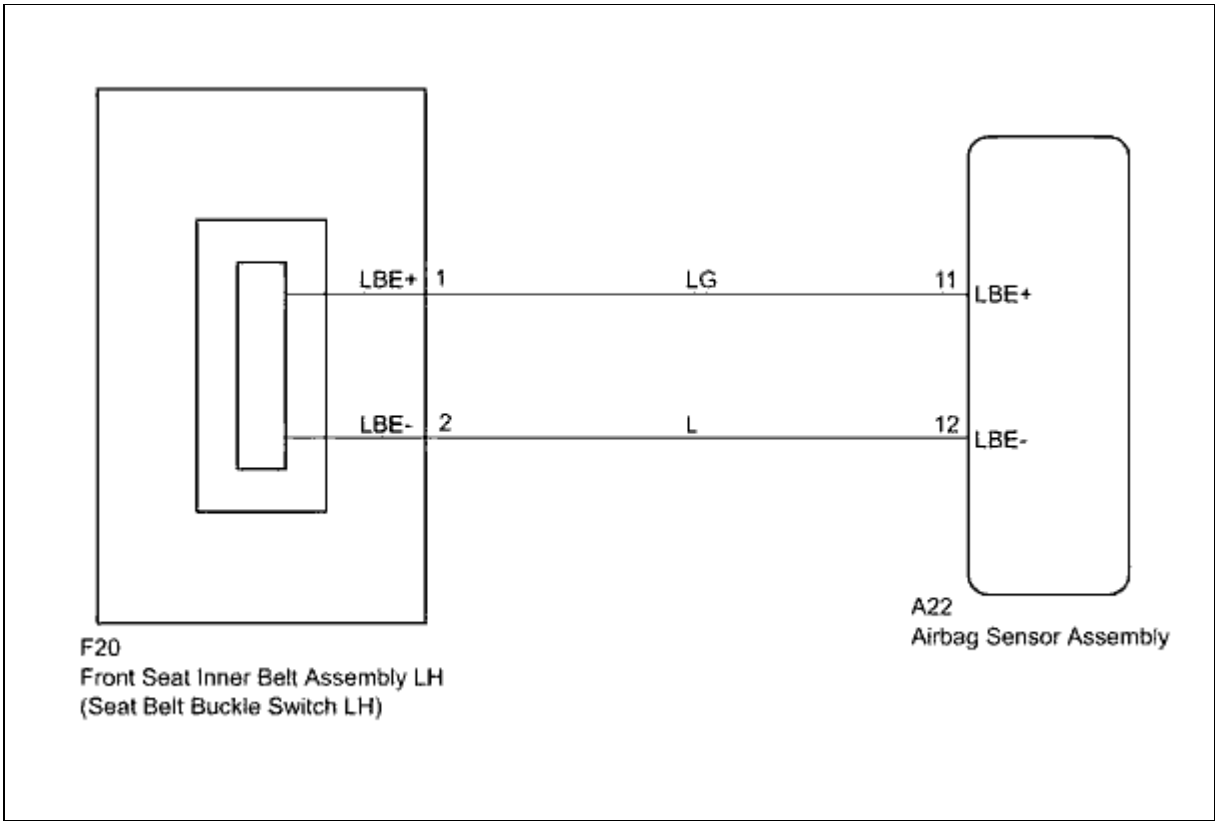
DESCRIPTION

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

DTC B1655/37 is stored when a malfunction is detected in the seat belt buckle switch LH circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B1655/37	• The airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the seat belt buckle switch LH circuit for 2 seconds • Front seat inner belt assembly LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Front seat inner belt assembly LH (Seat belt buckle switch LH) • Airbag sensor assembly

WIRING DIAGRAM



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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

1.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the seat position airbag sensor.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

2.	**CHECK CONNECTORS**

(a) Disconnect the connector from the airbag sensor assembly.

(b) Disconnect the connector from the front seat inner belt assembly LH.

(c) Check that the connectors (on the airbag sensor assembly side and front seat inner belt assembly LH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

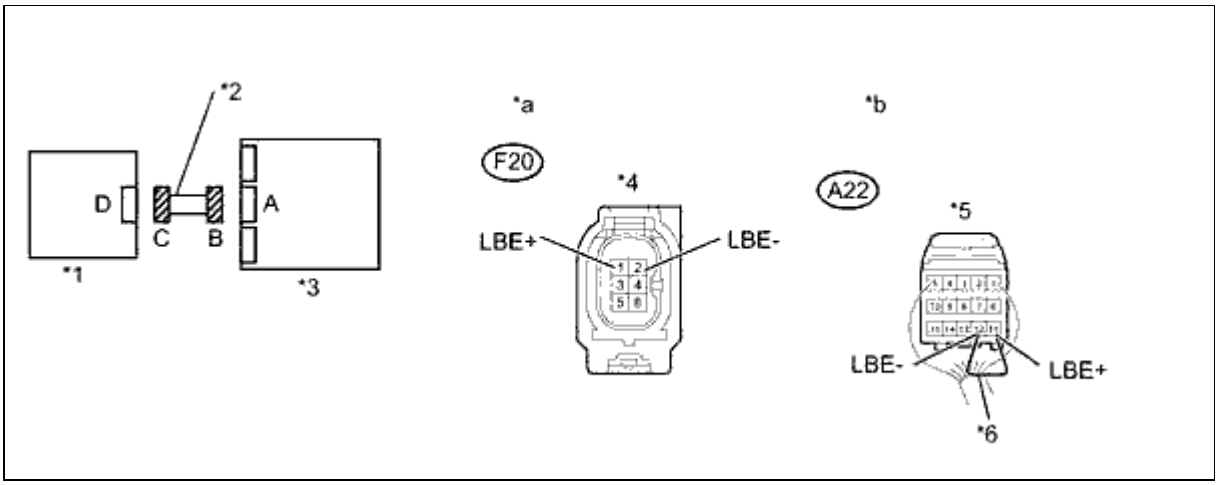
CONDITION	PROCEED TO
Normal	A
Abnormal	B

B ▶ **REPLACE HARNESS OR CONNECTOR**

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A

3.	**CHECK NO. 2 FLOOR WIRE (AIRBAG SENSOR ASSEMBLY - FRONT SEAT INNER BELT ASSEMBLY LH)**



Text in Illustration

*1	Front Seat Inner Belt Assembly LH	*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly	*4	Connector C
*5	Connector B	*6	Service Wire
*a	Front view of wire harness connector (to Front Seat Inner Belt Assembly LH)	*b	Front view of wire harness connector (to Airbag Sensor Assembly)

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

(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F20-1 (LBE+) - Body ground	Ignition switch ON	Below 1 V
F20-2 (LBE-) - Body ground	Ignition switch ON	Below 1 V

(d) Turn the ignition switch off.

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

(f) Using a service wire, connect terminals 11 (LBE+) and 12 (LBE-) of connector B.

NOTICE:

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F20-1 (LBE+) - F20-2 (LBE-)	Always	Below 1 Ω

(h) Disconnect the service wire from connector B.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F20-1 (LBE+) - F20-2 (LBE-)	Always	1 MΩ or Higher
F20-1 (LBE+) - Body ground	Always	1 MΩ or Higher
F20-2 (LBE-) - Body ground	Always	1 MΩ or Higher

NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

4.	**CHECK FRONT SEAT INNER BELT ASSEMBLY LH**

(a) Connect the connectors to the airbag sensor assembly.

(b) Connect the connector to the front seat inner belt assembly LH.

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

(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory INFO .

(f) Turn the ignition switch off.

(g) Turn the ignition switch to ON, and wait for at least 60 seconds.

(h) Check for DTCs INFO .

OK:

DTC B1655/37 is not output.

HINT:

DTCs other than B1655/37 may be output at this time, but they are not related to this check.

NG ▶ **GO TO STEP 5**

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OK ▶ REPLACE USE SIMULATION METHOD TO CHECK

5.	CHECK FRONT SEAT INNER BELT ASSEMBLY LH

(a) Turn the ignition switch off.

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

(c) Replace the front seat inner belt assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT

▼

6.	CHECK AIRBAG SENSOR ASSEMBLY

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

(b) Turn the ignition switch to ON, and wait for at least 60 seconds.

(c) Clear the DTCs INFO .

(d) Turn the ignition switch off.

(e) Turn the ignition switch to ON, and wait for at least 60 seconds.

(f) Check for DTCs INFO .

OK:

DTC B1655/37 is not output.

HINT:

DTCs other than B1655/37 may be output at this time, but they are not related to this check.

NG ▶ REPLACE AIRBAG SENSOR ASSEMBLY

OK ▶ END

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001BYA00BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1660/43; Passenger Airbag ON/OFF Indicator Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1660/43**	**Passenger Airbag ON/OFF Indicator Circuit Malfunction**

DESCRIPTION

The passenger airbag ON/OFF indicator light circuit consists of the airbag sensor assembly and the air conditioning control assembly.

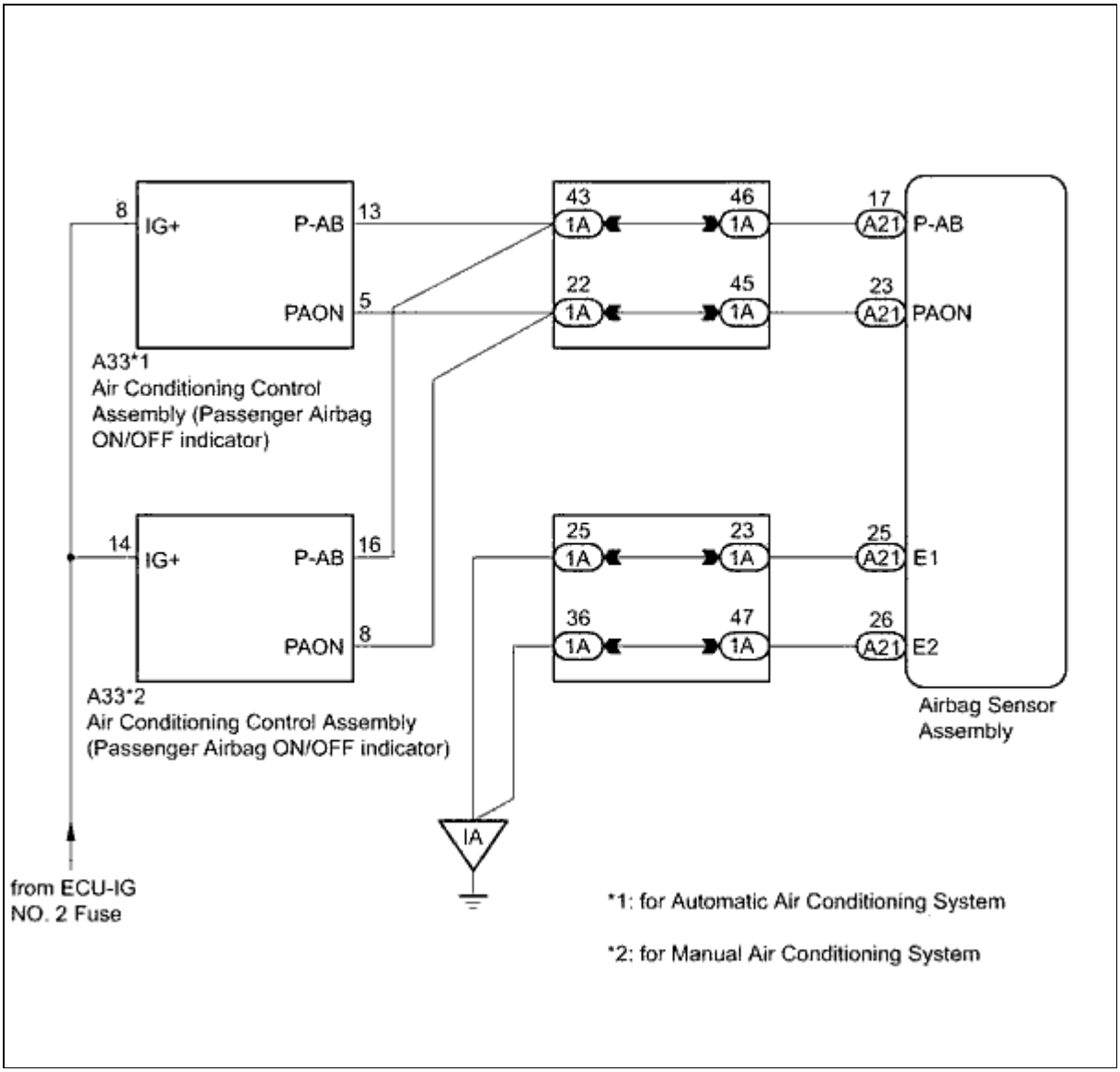
This circuit indicates the operation condition of the instrument panel passenger without door airbag assembly, the front seat airbag assembly RH and front seat outer belt assembly RH.

DTC B1660/43 is set when a malfunction is detected in the passenger airbag ON/OFF indicator circuit.

DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1660/43	• The airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the passenger airbag ON/OFF indicator circuit for 2 seconds • Air conditioning control assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Air conditioning control assembly (Passenger airbag ON/OFF indicator) • Airbag sensor assembly

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

PROCEDURE

1.	**CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION**

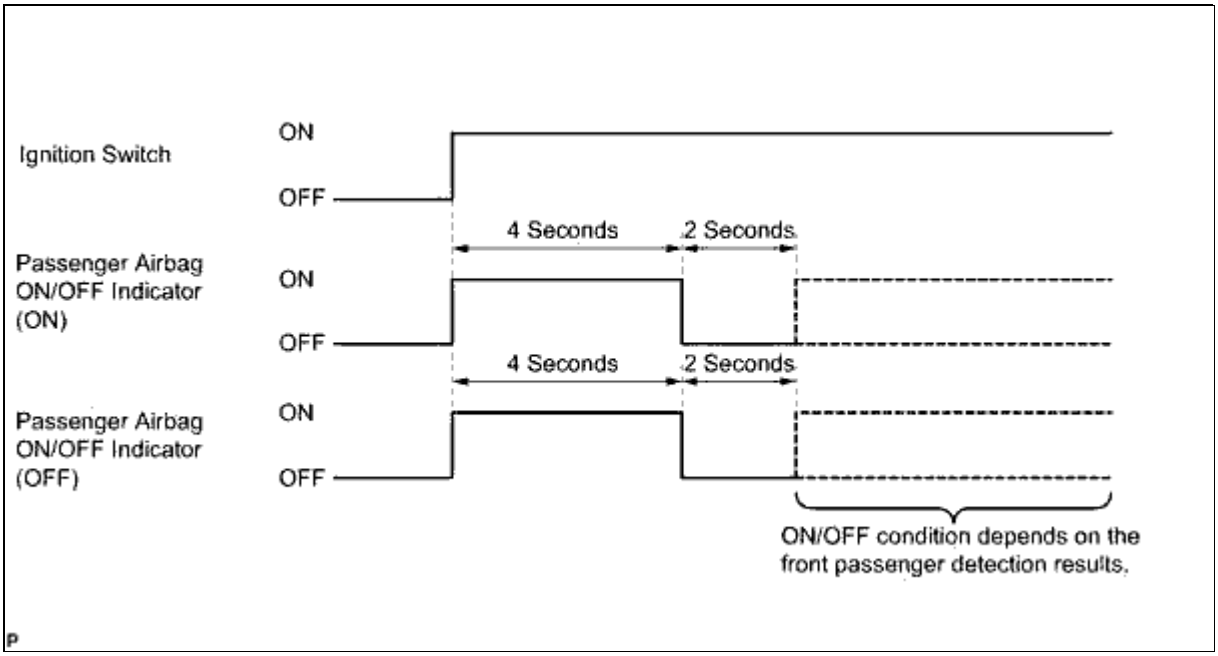
(a) Turn the ignition switch to ON.

(b) Check the passenger airbag ON/OFF indicator operation.

HINT:

Refer to the normal condition of the passenger airbag ON/OFF indicator INFO .

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ON/OFF INDICATOR ILLUMINATION	PROCEED TO
Always ON	A
OFF	B

B ▶ **GO TO STEP 9**

A ▼

2.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the air conditioning control assembly.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

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3.	**CHECK CONNECTORS**

(a) Check that the connectors (on the airbag sensor assembly side and air conditioning control assembly side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

NG ▶ **REPLACE WIRE HARNESS**

OK ▼

4.	**CHECK AIR CONDITIONING CONTROL ASSEMBLY (PASSENGER AIRBAG ON/OFF INDICATOR)**

(a) Turn the ignition switch off.



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

(c) Disconnect the connector from the airbag sensor assembly.

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

(e) Turn the ignition switch to ON.

(f) Check the passenger airbag ON/OFF indicator operation.

OK:

Neither ON nor OFF passenger airbag ON/OFF indicator comes on.

Result

RESULT	PROCEED TO
NG	A
OK	B

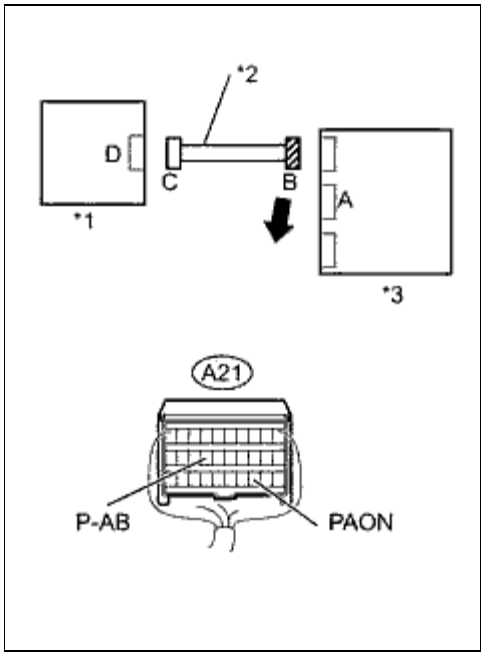
B ▶ **GO TO STEP 17**

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A

5.	CHECK INSTRUMENT PANEL WIRE (TO GROUND)

(a) Turn the ignition switch off.



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

(c) Disconnect the connector from the air conditioning control assembly.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-17 (P-AB) - Body ground	Always	1 MΩ or Higher
A21-23 (PAON) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK

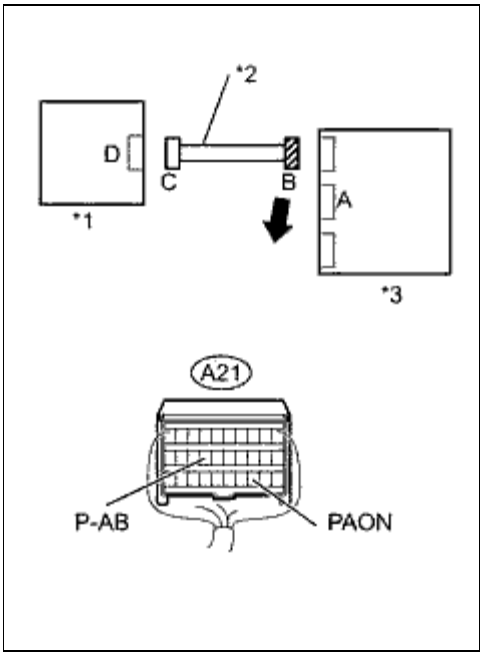
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6.	**CHECK INSTRUMENT PANEL WIRE (FOR SHORT)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-17 (P-AB) - A21-23 (PAON)	Always	1 MΩ or Higher



Text in Illustration

*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

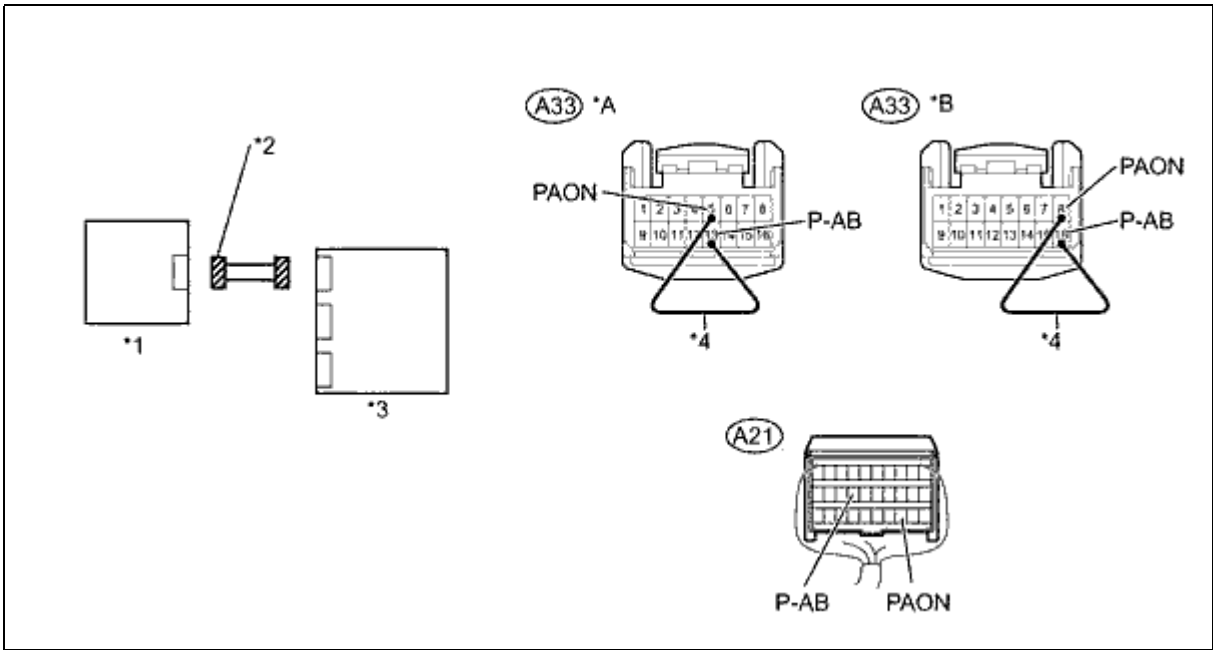
OK

7.	**CHECK INSTRUMENT PANEL WIRE (FOR OPEN)**

(a) Using a service wire, connect A33-5 (PAON) and A33-13 (P-AB)*1 or A33-8 (PAON) and A33-16 (P-AB)*2 of connector C.

*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System

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Text in Illustration

*A	for Automatic Air Conditioning System	*B	for Manual Air Conditioning System
*1	Passenger Airbag ON/OFF Indicator	*2	Instrument Panel Wire
*3	Airbag Sensor Assembly	*4	Service Wire

NOTICE:

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-23 (PAON) - A21-17 (P-AB)	Always	Below 1 Ω

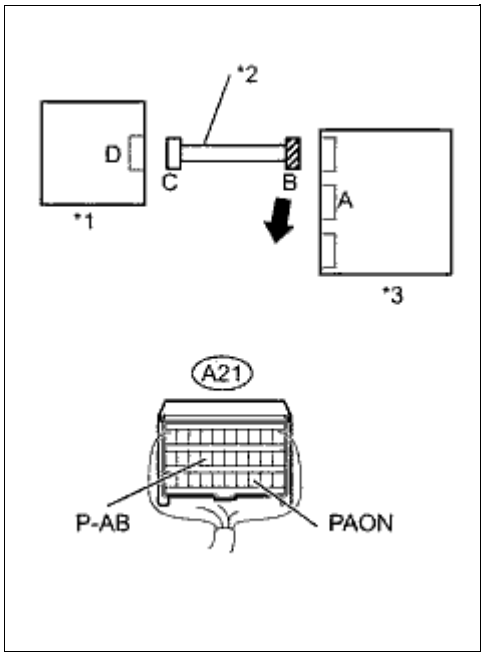
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

8.	**CHECK INSTRUMENT PANEL WIRE (TO B+)**

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(a) Disconnect the service wire from connector C.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A21-23 (PAON) - Body ground	Ignition switch ON	Below 1 V
A21-17 (P-AB) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▶ **INSPECT AIR CONDITIONING CONTROL ASSEMBLY**

9.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the air

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conditioning control assembly.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

10.	**CHECK CONNECTORS**

(a) Check that the connectors (on the airbag sensor assembly side and air conditioning control assembly side) are not damaged INFO .

OK:

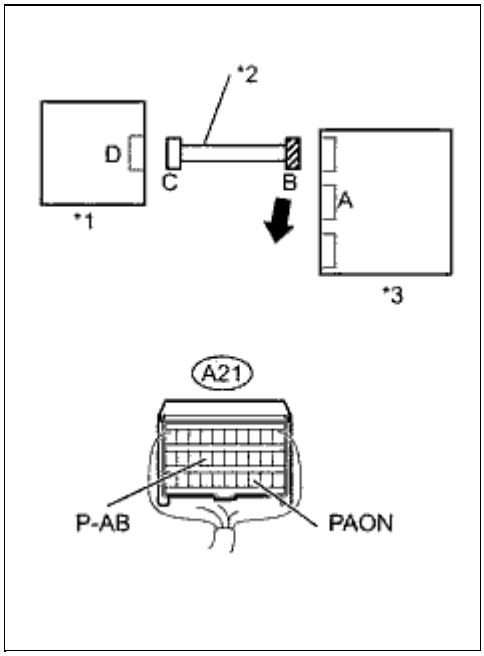
The connectors are not deformed or damaged.

NG ▶ **REPLACE WIRE HARNESS**

OK ▼

11.	**CHECK INSTRUMENT PANEL WIRE (TO GROUND)**

(a) Disconnect the connector from the air conditioning control assembly.



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

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Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-17 (P-AB) - Body ground	Always	1 MΩ or Higher
A21-23 (PAON) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

12.	**CHECK INSTRUMENT PANEL WIRE (FOR SHORT)**

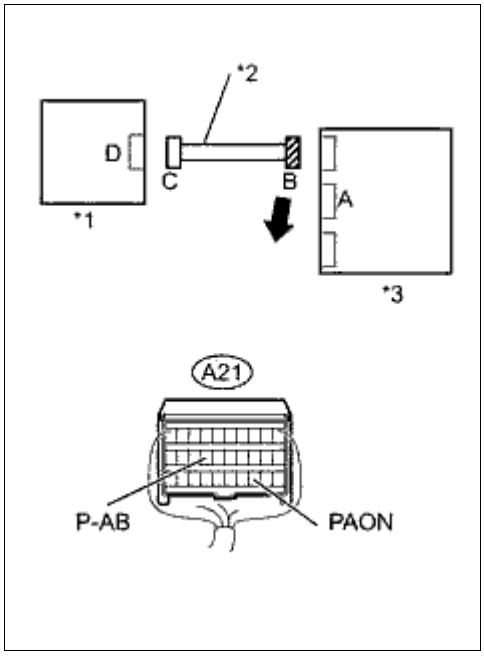
(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-17 (P-AB) - A21-23 (PAON)	Always	1 MΩ or Higher

Text in Illustration

*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly



NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

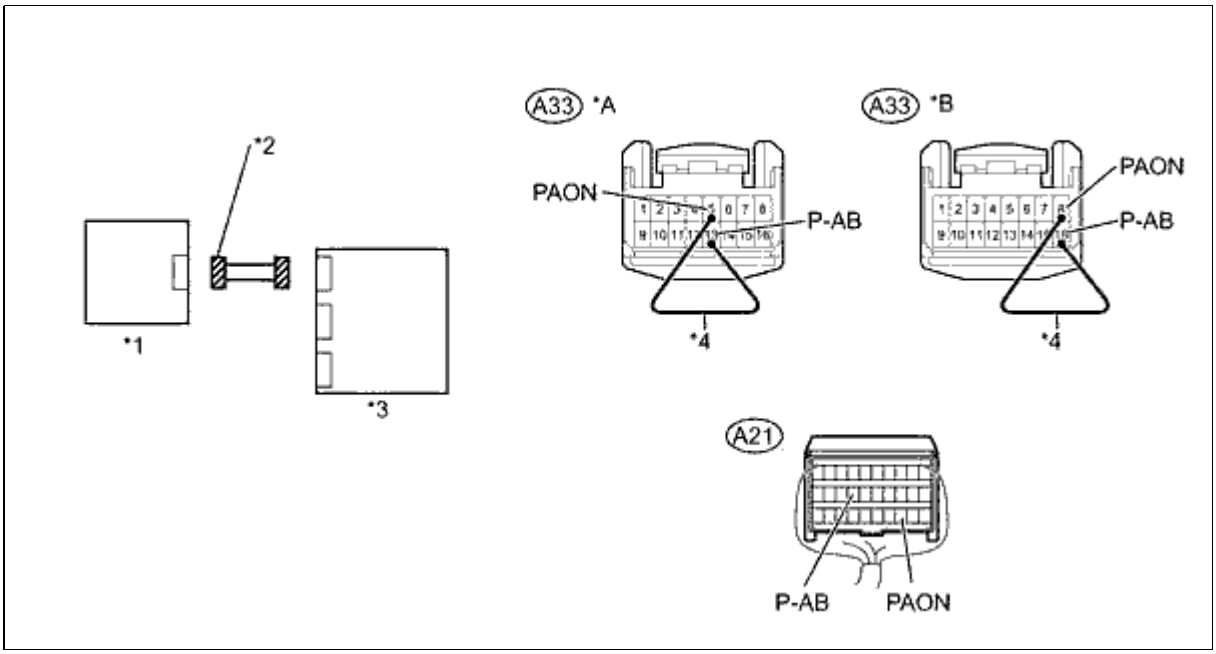
OK ▼

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13.	CHECK INSTRUMENT PANEL WIRE (FOR OPEN)

(a) Using a service wire, connect A33-5 (PAON) and A33-13 (P-AB)*1 or A33-8 (PAON) and A33-16 (P-AB)*2 of connector C.

*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System



Text in Illustration

*A	for Automatic Air Conditioning System	*B	for Manual Air Conditioning System
*1	Passenger Airbag ON/OFF Indicator	*2	Instrument Panel Wire
*3	Airbag Sensor Assembly	*4	Service Wire

NOTICE:

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-23 (PAON) - A21-17 (P-AB)	Always	Below 1 Ω

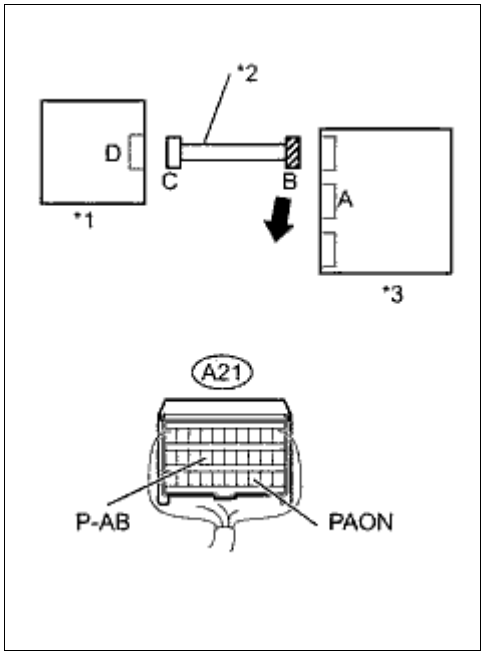
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

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14.	**CHECK INSTRUMENT PANEL WIRE (TO B+)**

(a) Disconnect the service wire from connector C.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A21-23 (PAON) - Body ground	Ignition switch ON	Below 1 V
A21-17 (P-AB) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly

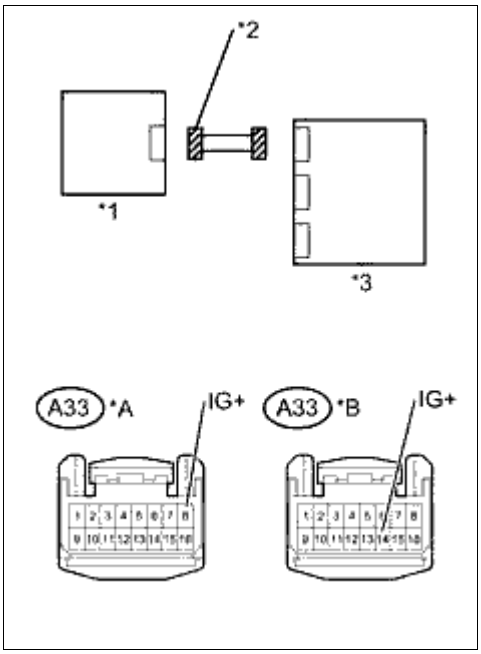
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

15.	**CHECK WIRE HARNESS (POWER SOURCE)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

for Automatic Air Conditioning System

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A33-8 (IG+) - Body ground	Ignition switch ON	11 to 14 V

for Manual Air Conditioning System

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A33-14 (IG+) - Body ground	Ignition switch ON	11 to 14 V

Text in Illustration

*A	for Automatic Air Conditioning System
*B	for Manual Air Conditioning System
*1	Passenger Airbag ON/OFF Indicator
*2	Instrument Panel Wire
*3	Airbag Sensor Assembly

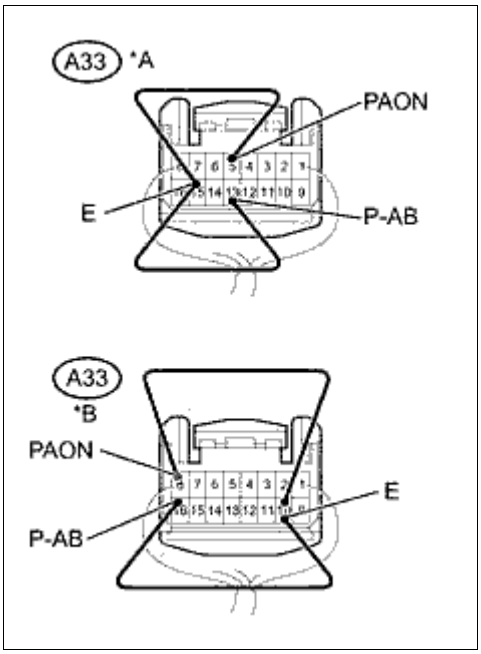
NG ▶ **REPLACE POWER SOURCE CIRCUIT**

OK ▼

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16.	**CHECK AIR CONDITIONING CONTROL ASSEMBLY**

(a) Turn the ignition switch off.



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

(c) Connect the connector to the air conditioning control assembly.

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

(e) Using a service wire, connect A33-13 (P-AB) and A33-15 (E) or A33-16 (P-AB) and A33-10 (E) of air conditioning control assembly connector.

(f) Using a service wire, connect A33-5 (PAON) and A33-15 (E) or A33-8 (PAON) and A33-10 (E) of air conditioning control assembly connector.

(g) Turn the ignition switch to ON.

(h) Check the passenger airbag ON/OFF indicator operation.

OK:

Passenger airbag ON/OFF indicator comes on

Text in Illustration

*A	for Automatic Air Conditioning System
*B	for Manual Air Conditioning System

NG ▶ **INSPECT AIR CONDITIONING CONTROL ASSEMBLY**

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OK

17.	CHECK AIRBAG SENSOR ASSEMBLY

(a) Turn the ignition switch off.

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

(c) Connect the connectors to the airbag sensor assembly.

(d) Connect the connector to the air conditioning control assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1660/43 is not output.

HINT:

DTCs other than B1660/43 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000XFI0T6X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1800/51-B1803/51; Short in Driver Side Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1800/51**	**Short in Driver Side Squib Circuit**

DTC	**B1801/51**	**Open in Driver Side Squib Circuit**

DTC	**B1802/51**	**Short to GND in Driver Side Squib Circuit**

DTC	**B1803/51**	**Short to B+ in Driver Side Squib Circuit**

DESCRIPTION

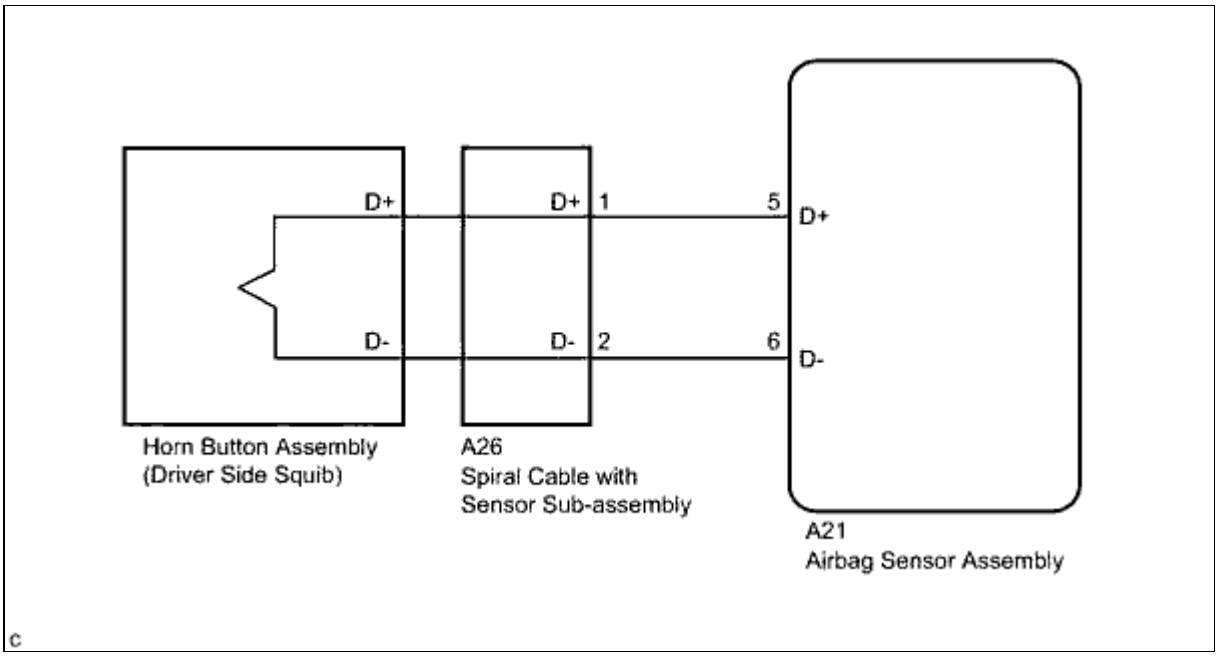
The driver side squib circuit consists of the airbag sensor assembly, the spiral cable with sensor sub-assembly and the horn button assembly.
The circuit signals the SRS to deploy when deployment conditions are met.
These DTCs are set when a malfunction is detected in the driver side squib circuit.

DTC NO.	DTC DETECTING CONDITION	TROUBLE AREA
B1800/51	• The airbag sensor assembly receives a line short circuit signal in the driver side squib circuit for 2 seconds. • Driver side squib malfunction • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib) • Airbag sensor assembly
B1801/51	• The airbag sensor assembly receives an open circuit signal in the driver side squib circuit for 2 seconds. • Driver side squib malfunction • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib) • Airbag sensor assembly
B1802/51	• The airbag sensor assembly receives a line short circuit to ground signal in the driver side squib circuit for 0.5 seconds. • Driver side squib malfunction • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib) • Airbag sensor assembly

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DTC NO.	DTC DETECTING CONDITION	TROUBLE AREA
B1803/51	• The airbag sensor assembly receives a line short circuit to B+ signal in the driver side squib circuit for 0.5 seconds. • Driver side squib malfunction • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs):

Using the Techstream, check for DTCs INFO .

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Result

RESULT	PROCEED TO
DTC B1800 is output.	A
DTC B1801 is output.	B
DTC B1802 is output.	C
DTC B1803 is output.	D

B ▶ **GO TO STEP 7**

C ▶ **GO TO STEP 11**

D ▶ **GO TO STEP 15**

A
▼

2.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK
▼

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the spiral cable with sensor sub-assembly.

OK:

The connectors are properly connected.

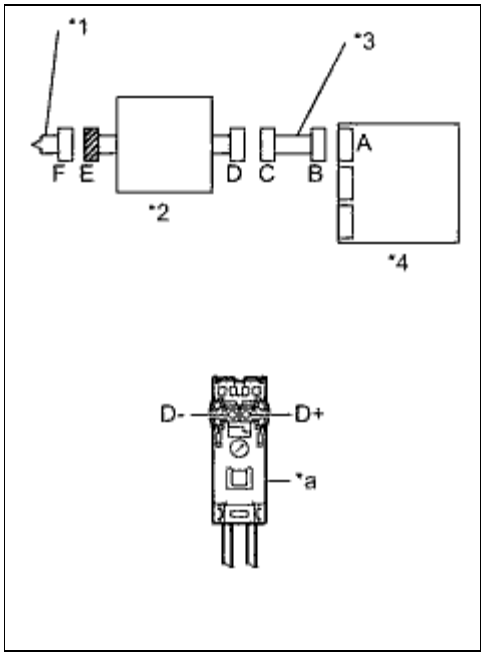
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NG ▶ CONNECT CONNECTORS

OK ▼

4.	CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (FOR SHORT)

(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



(b) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D+ - D-	Always	1 MΩ or Higher

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly
*a	Color: Orange

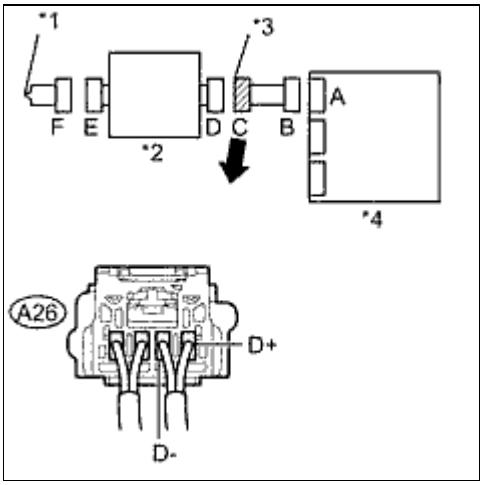
NG ▶ REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY

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OK

5.	**CHECK INSTRUMENT PANEL WIRE (FOR SHORT)**

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



(b) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A26-1 (D+) - A26-2 (D-)	Always	1 MΩ or Higher

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

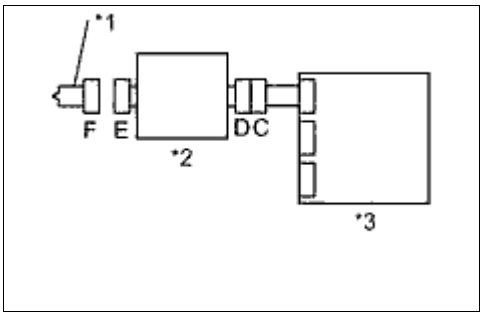
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK

6.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the instrument panel wire connectors to the airbag sensor assembly and spiral cable with sensor sub-assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1800 is not output.

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly

HINT:

DTCs other than B1800 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 20**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

7.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side)

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are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

8.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are properly connected.

OK:

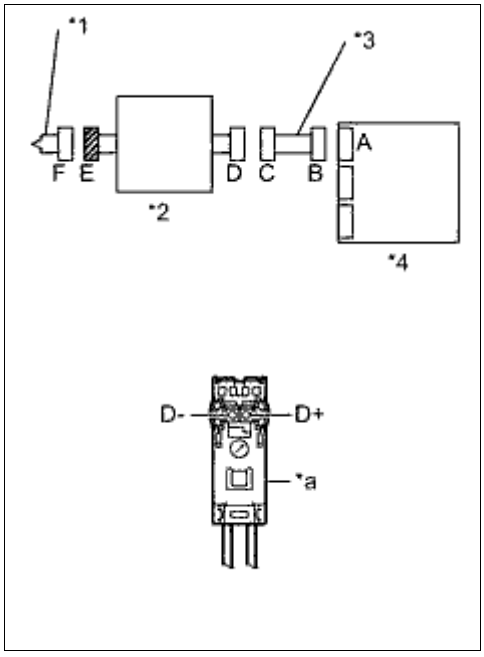
The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

9.	**CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (FOR OPEN)**

(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D+ - D-	Always	Below 1 Ω

Text in Illustration

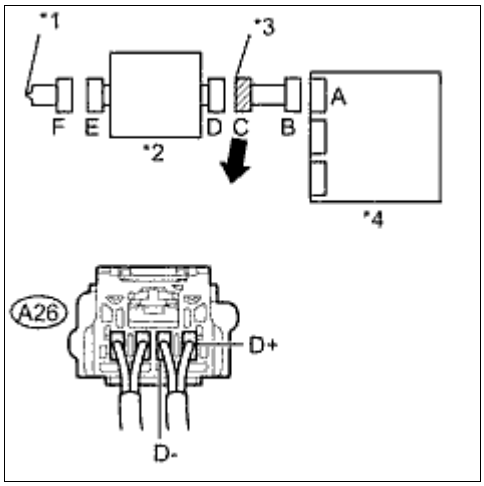
*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly
*a	Color: Orange

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

10.	**CHECK INSTRUMENT PANEL WIRE (FOR OPEN)**

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A26-1 (D+) - A26-2 (D-)	Always	Below 1 Ω

Text in Illustration

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*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

11.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

12.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are properly connected.

OK:

The connectors are properly connected.

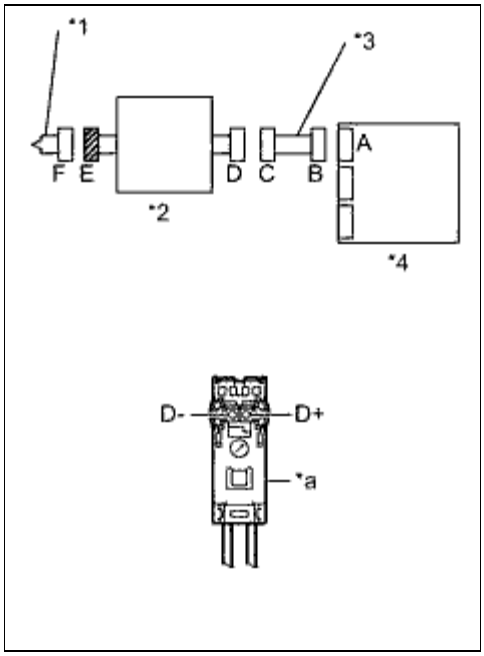
NG ▶ **CONNECT CONNECTORS**

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OK

13.	CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (TO GROUND)

(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D+ - Body ground	Always	1 MΩ or Higher
D- - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly
*a	Color: Orange

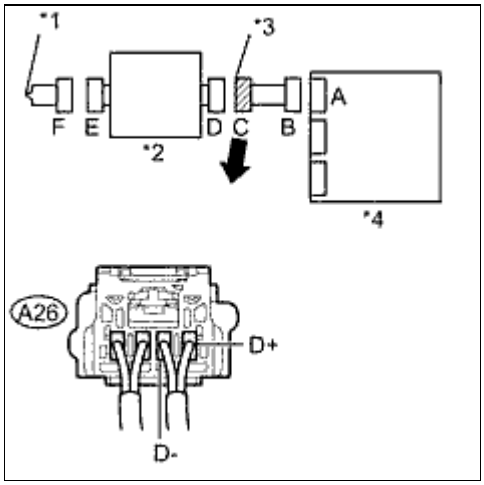
NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK

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14.	**CHECK INSTRUMENT PANEL WIRE (TO GROUND)**

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A26-1 (D+) - Body ground	Always	1 MΩ or Higher
A26-2 (D-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

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15.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

16.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are properly connected.

OK:

The connectors are properly connected.

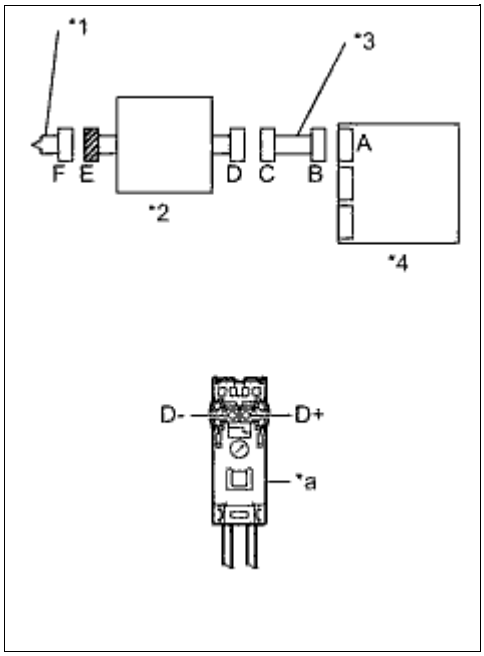
NG ▶ **CONNECT CONNECTORS**

OK ▼

17.	**CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (TO B+)**

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(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
D+ - Body ground	Ignition switch ON	Below 1 V
D- - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly
*a	Color: Orange

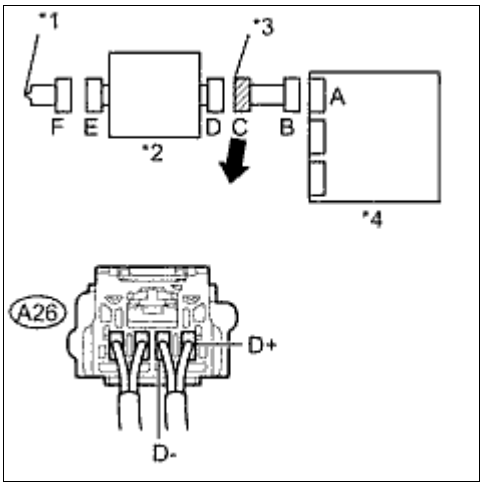
NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

18.	**CHECK INSTRUMENT PANEL WIRE (TO B+)**

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(a) Turn the ignition switch off.



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

(c) Disconnect the instrument panel wire connector from the airbag sensor assembly.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A26-1 (D+) - Body ground	Ignition switch ON	Below 1 V
A26-2 (D-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

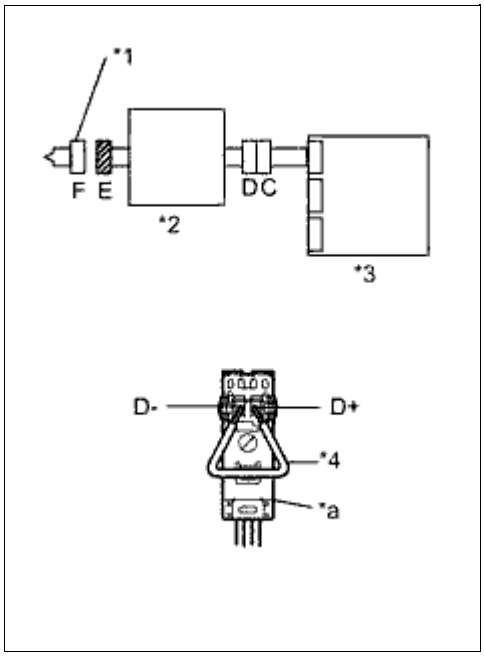
19.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 18, begin from (a). If continuing from any other step, begin from (c).

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(a) Turn the ignition switch off.



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

(c) Connect the instrument panel wire connectors to the airbag sensor assembly.

(d) Using a service wire, connect D+ and D- of connector E.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTCs B1801, B1802 and B1803 are not output.

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly
*4	Service Wire
*a	Color: Orange

HINT:

DTCs other than B1801, B1802 or B1803 may be output at this time, but they are not related to this check.

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NG ▶ REPLACE AIRBAG SENSOR ASSEMBLY

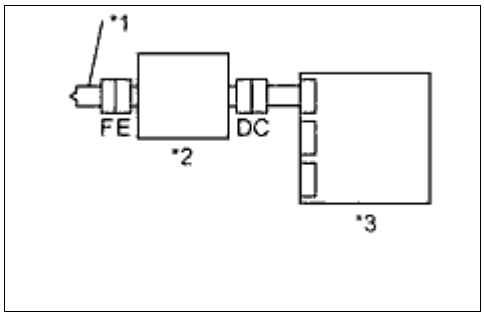
OK ▼

20.	REPLACE HORN BUTTON ASSEMBLY (DRIVER SIDE SQUIB)

HINT:

If continuing from step 19, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector E.

(d) Connect the connectors to the horn button assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTCs B1800, B1801, B1802 and B1803 are not output.

Text in Illustration

*1	Driver Side Squib
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly

HINT:

DTCs other than B1800, B1801, B1802 or B1803 may be output at this time, but they are not related to this check.

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NG ▶ **REPLACE HORN BUTTON ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000XFJ0UZX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1805/52-B1808/52; Short in Front Passenger Side Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1805/52**	**Short in Front Passenger Side Squib Circuit**

DTC	**B1806/52**	**Open in Front Passenger Side Squib Circuit**

DTC	**B1807/52**	**Short to GND in Front Passenger Side Squib Circuit**

DTC	**B1808/52**	**Short to B+ in Front Passenger Side Squib Circuit**

DESCRIPTION

The front passenger side squib circuit consists of the airbag sensor assembly and the instrument panel passenger without door airbag assembly.

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

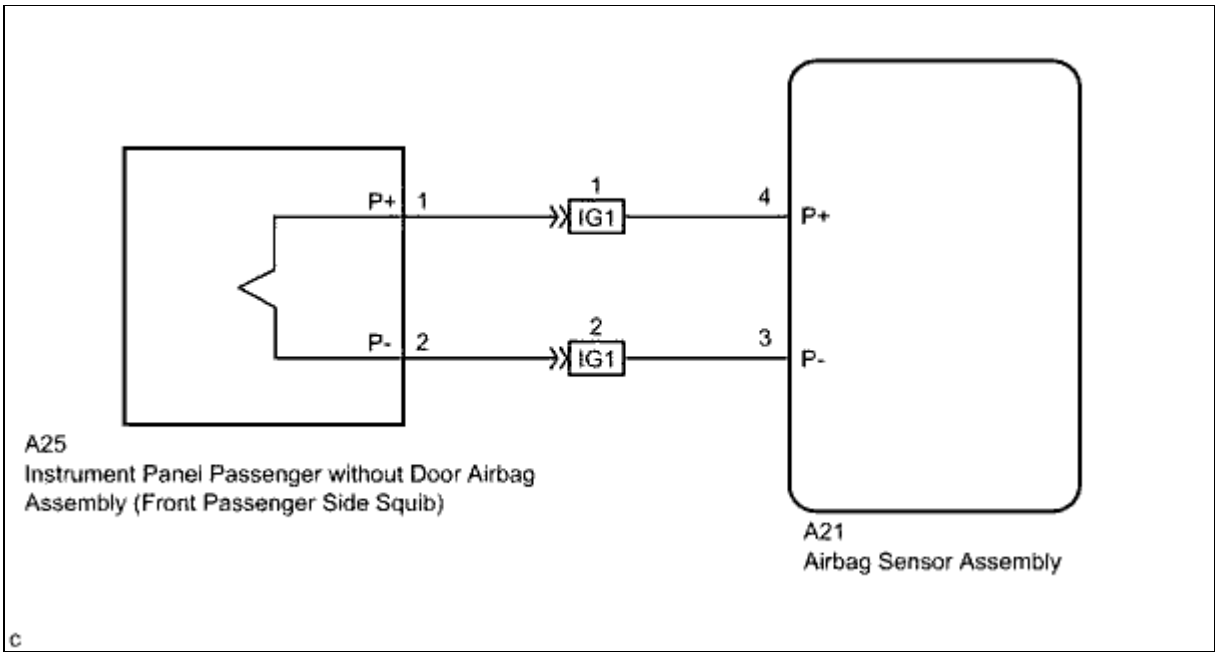
These DTCs are recorded when a malfunction is detected in the front passenger side squib circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B1805/52	• The airbag sensor assembly receives a line short circuit in the front passenger side squib circuit for 2 seconds. • Front passenger side squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib) • Airbag sensor assembly
B1806/52	• The airbag sensor assembly receives an open circuit signal in the front passenger side squib circuit for 2 seconds. • Front passenger side squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib) • Airbag sensor assembly
B1807/52	• The airbag sensor assembly receives a short circuit to ground signal in the front passenger side squib circuit for 0.5 seconds. • Front passenger side squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib) • Airbag sensor assembly

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DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B1808/52	• The airbag sensor assembly receives a short circuit to B+ signal in the front passenger side squib circuit for 0.5 seconds. • Front passenger side squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs): Using the Techstream, check for DTCs INFO .

Result

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RESULT	PROCEED TO
DTC B1805 is output.	A
DTC B1806 is output.	B
DTC B1807 is output.	C
DTC B1808 is output.	D

B ▶ **GO TO STEP 7**

C ▶ **GO TO STEP 11**

D ▶ **GO TO STEP 15**

A
▼

2.	CHECK CONNECTOR

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK
▼

3.	CHECK CONNECTION OF CONNECTORS

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

The connectors are properly connected.

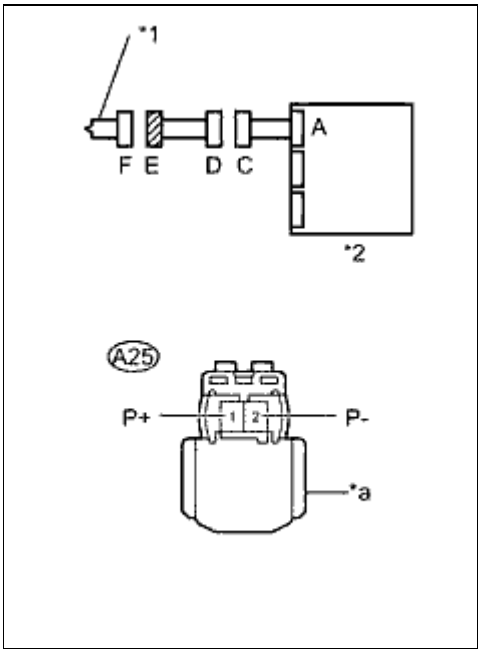
NG ▶ **CONNECT CONNECTORS**

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OK

4.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (FOR SHORT)**

(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and instrument panel passenger without door airbag assembly.



(b) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A25-1 (P+) - A25-2 (P-)	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly
*a	Color: Orange

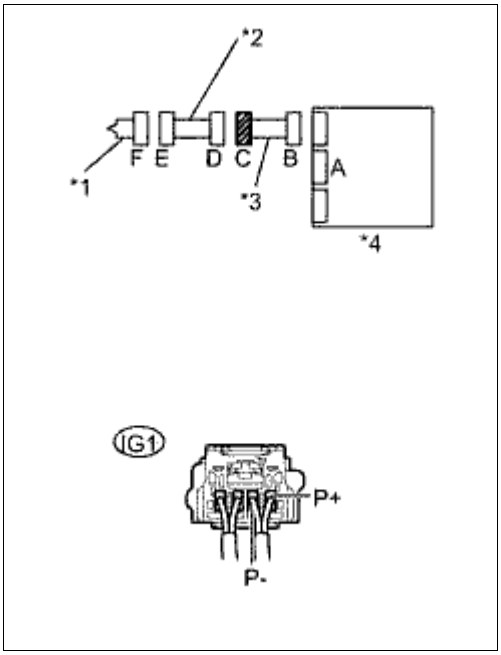
NG **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK

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5.	**CHECK INSTRUMENT PANEL WIRE (FOR SHORT)**

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



(b) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-1 (P+) - IG1-2 (P-)	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

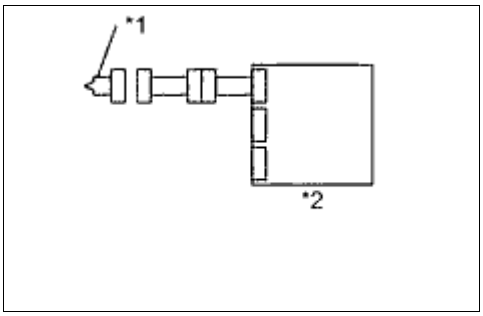
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

6.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the instrument panel wire connectors to the airbag sensor assembly and instrument panel wire assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1805 is not output.

Text in Illustration

*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1805 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 20**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

7.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

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OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

8.	**CHECK CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

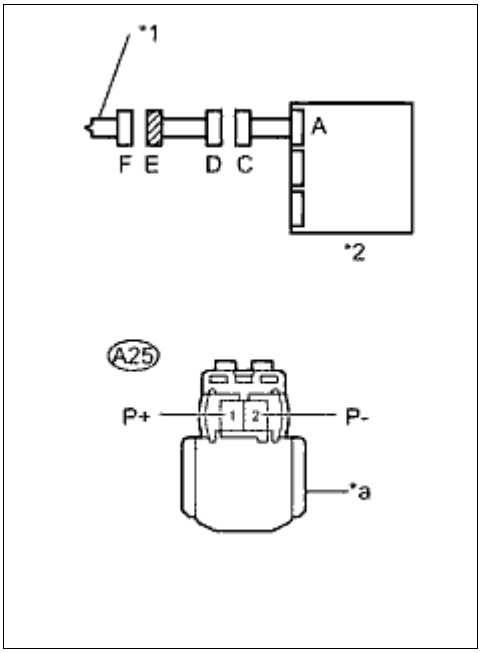
The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

9.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (FOR OPEN)**

(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and instrument panel passenger without door airbag assembly.



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

Standard Resistance:

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A25-1 (P+) - A25-2(P-)	Always	Below 1 Ω

Text in Illustration

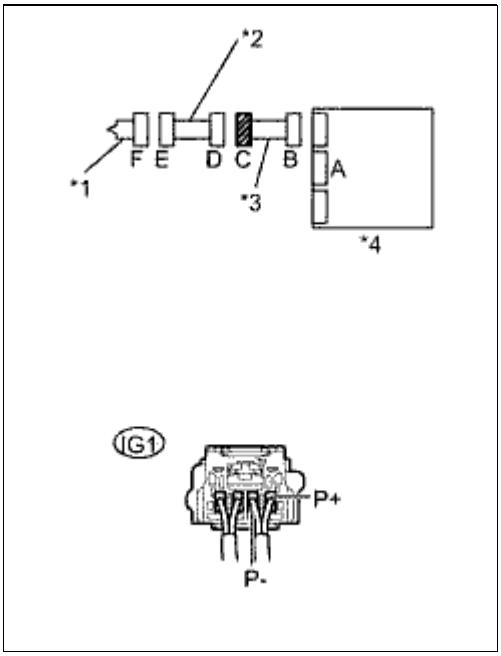
*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly
*a	Color: Orange

MG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK
▼

10.	CHECK INSTRUMENT PANEL WIRE (FOR OPEN)

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-1 (P+) - IG1-2 (P-)	Always	Below 1 Ω

Text in Illustration

*1	Front Passenger Side Squib

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*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

11.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

12.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

The connectors are properly connected.

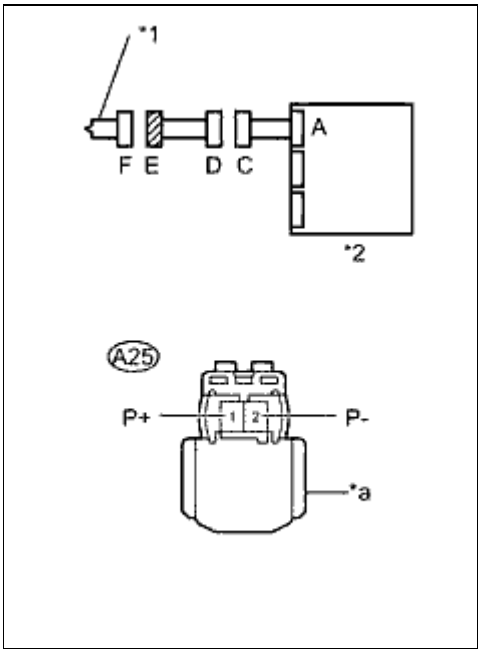
NG ▶ **CONNECT CONNECTORS**

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OK

13.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (TO GROUND)**

(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and instrument panel passenger without door airbag assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A25-1 (P+) - Body ground	Always	1 MΩ or Higher
A25-2(P-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly
*a	Color: Orange

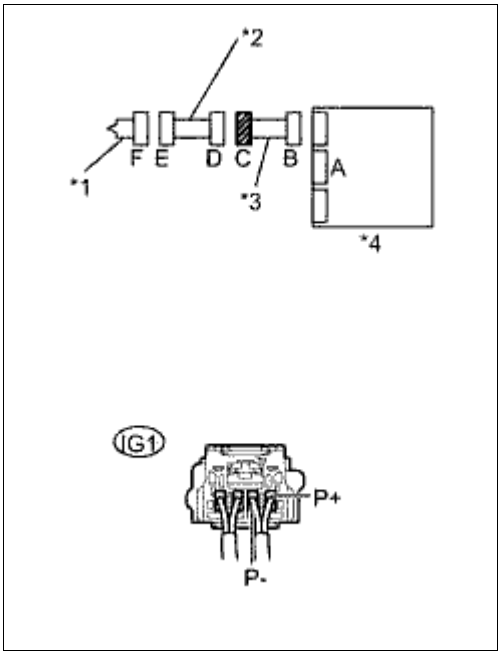
NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK

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14.	CHECK INSTRUMENT PANEL WIRE (TO GROUND)

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-1 (P+) - Body ground	Always	1 MΩ or Higher
IG1-2 (P-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

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15.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

16.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

The connectors are properly connected.

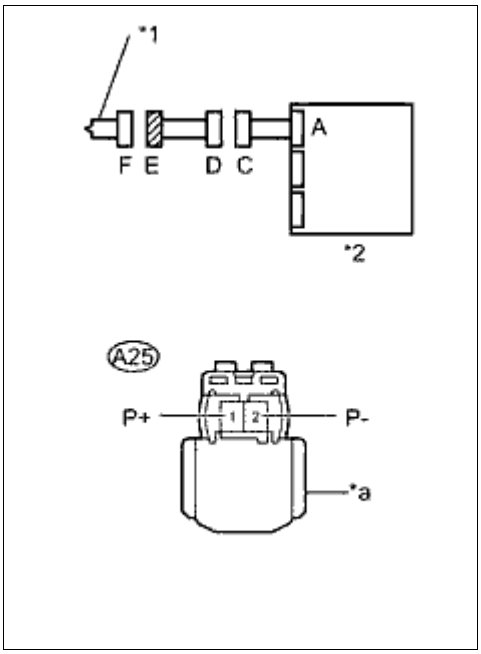
NG ▶ **CONNECT CONNECTORS**

OK ▼

17.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (TO B+)**

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(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and instrument panel passenger without door airbag assembly.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A25-1 (P+) - Body ground	Ignition switch ON	Below 1 V
A25-2(P-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly
*a	Color: Orange

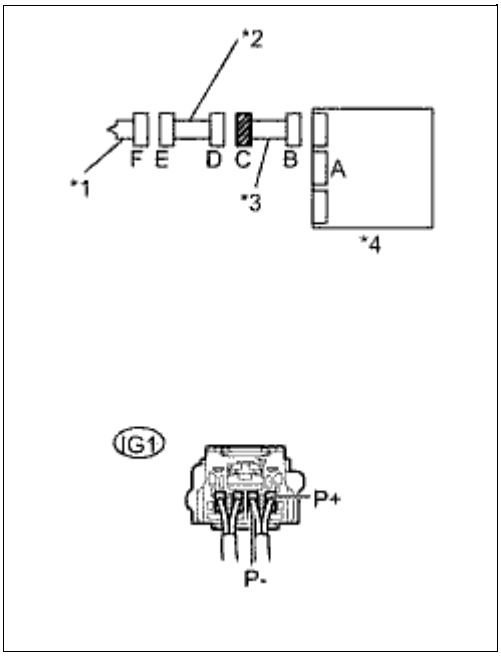
NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK
▼

18.	**CHECK INSTRUMENT PANEL WIRE (TO B+)**

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(a) Turn the ignition switch off.



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

(c) Disconnect the instrument panel wire connector from the airbag sensor assembly.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
IG1-1 (P+) - Body ground	Ignition switch ON	Below 1 V
IG1-2 (P-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Passenger Side Squib
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

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19.	CHECK AIRBAG SENSOR ASSEMBLY

HINT:

If continuing from step 18, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.

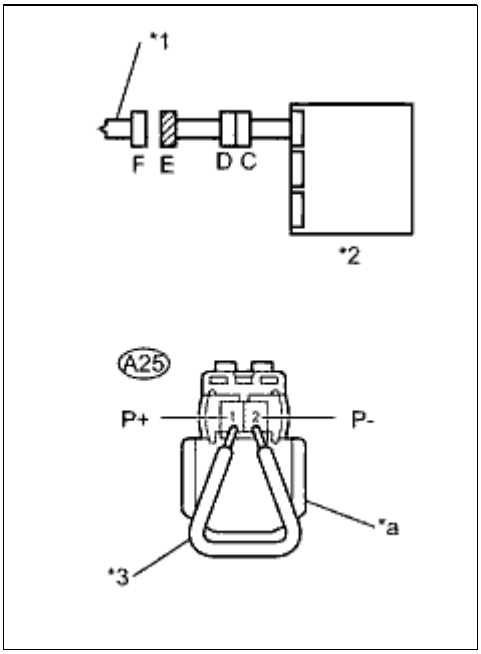
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect A25-1 (P+) and A25-2 (P-) of connector E.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.



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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1806, B1807 and B1808 are not output.

Text in Illustration

*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly
*3	Service Wire
*a	Color: Orange

HINT:

DTCs other than B1806, B1807 or B1808 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

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OK

20.	**CHECK INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB)**

HINT:

If continuing from step 19, begin from (c). If continuing from any other step, being from (a).

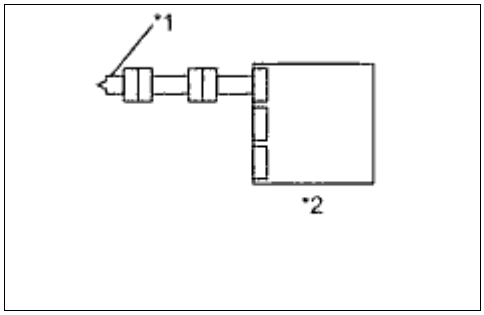
(a) Turn the ignition switch off.

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

(c) Disconnect the service wire from connector C.

(d) Connect the connectors to the instrument panel passenger without door airbag assembly.

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



(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTCs B1805, B1806, B1807 and B1808 are not output.

Text in Illustration

*1	Front Passenger Side Squib
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1805, B1806, B1807 or B1808 may be output at this time, but they are not related to this check.

NG **REPLACE INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY**

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OK ▶ USE SIMULATION METHOD TO CHECK

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YDY09TX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1810/53-B1813/53; Short in Driver Side Squib 2nd Step Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1810/53**	**Short in Driver Side Squib 2nd Step Circuit**

DTC	**B1811/53**	**Open in Driver Side Squib 2nd Step Circuit**

DTC	**B1812/53**	**Short to GND in Driver Side Squib 2nd Step Circuit**

DTC	**B1813/53**	**Short to B+ in Driver Side Squib 2nd Step Circuit**

DESCRIPTION

The driver side squib 2nd step circuit consists of the airbag sensor assembly, the spiral cable with sensor sub-assembly and the horn button assembly.

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

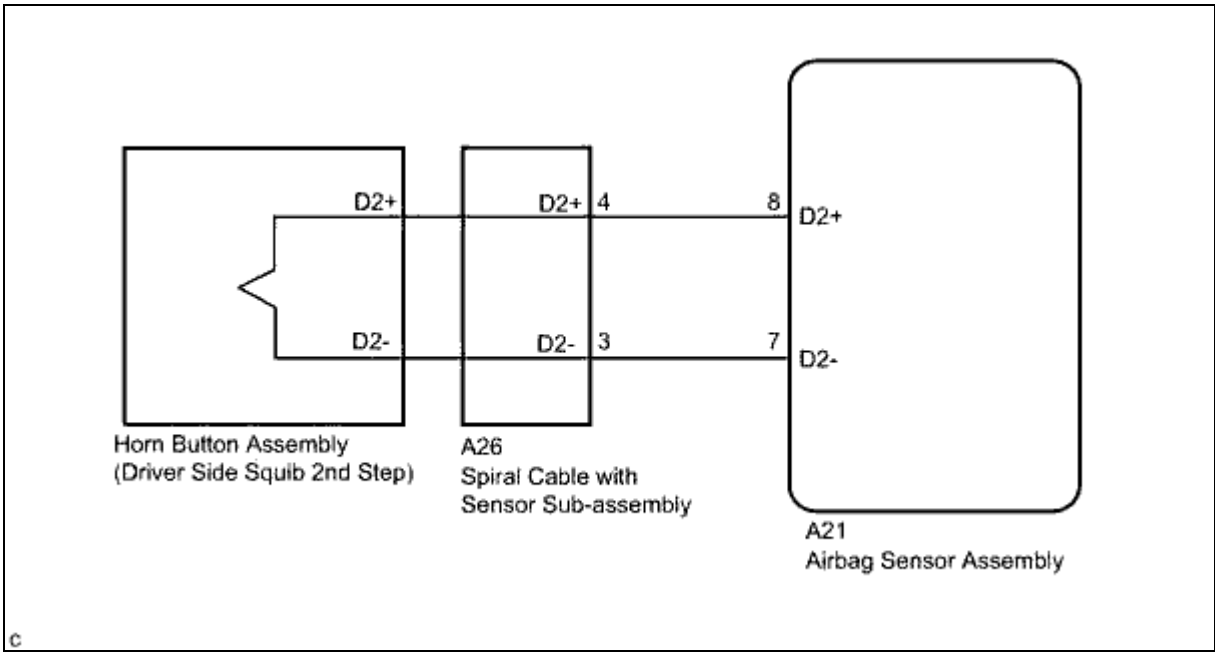
These DTCs are set when a malfunction is detected in the driver side squib 2nd step circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1810/53	• The airbag sensor assembly receives a line short circuit signal in the driver side squib 2nd step circuit for 2 seconds • Driver side squib 2nd step malfunction • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib 2nd step) • Airbag sensor assembly
B1811/53	• The airbag sensor assembly receives an open circuit signal in the driver side squib 2nd step circuit for 2 seconds malfunction • Driver side squib 2nd step • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib 2nd step) • Airbag sensor assembly
B1812/53	• The airbag sensor assembly receives a short circuit to ground signal in the driver side squib 2nd step circuit for 0.5 seconds • Driver side squib 2nd step malfunction • Spiral cable with sensor sub-assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib 2nd

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DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
	• Airbag sensor assembly malfunction	step) • Airbag sensor assembly
B1813/53	• The airbag sensor assembly receives a short circuit to B+ signal in the driver side squib 2nd step circuit for 0.5 seconds • Driver side squib 2nd step malfunction • Spiral cable with sensor sub-assembly malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Spiral cable with sensor sub-assembly • Horn button assembly (Driver side squib 2nd step) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

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(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs): Using the Techstream, check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1810 is output.	A
DTC B1811 is output.	B
DTC B1812 is output.	C
DTC B1813 is output.	D

B ▶ **GO TO STEP 7**

C ▶ **GO TO STEP 11**

D ▶ **GO TO STEP 15**

A ▼

2.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the spiral cable with sensor sub-assembly.

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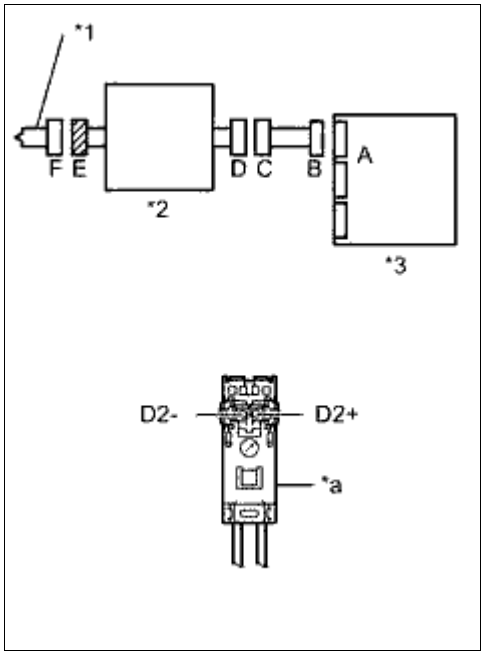
OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

4.	CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (FOR SHORT)



(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and steering pad horn button assembly.

(b) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D2+ - D2-	Always	1 MΩ or Higher

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly
*a	Color: Black

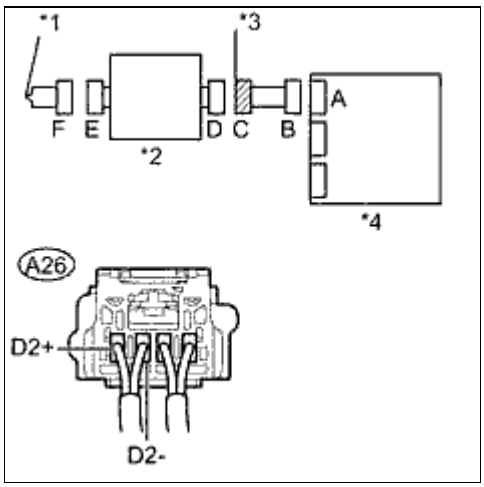
NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR**

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OK

5.	**CHECK INSTRUMENT PANEL WIRE (FOR SHORT)**

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



(b) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A26-4 (D2+) - A26-3 (D2-)	Always	1 MΩ or Higher

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

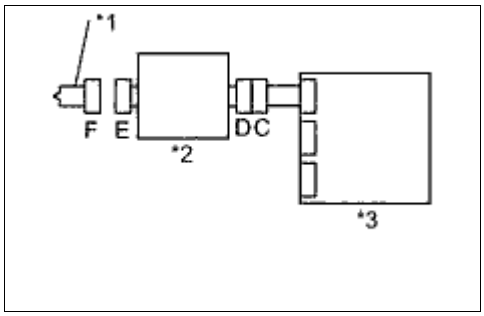
NG **REPLACE INSTRUMENT PANEL WIRE**

OK

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6.	**CHECK AIRBAG SENSOR ASSEMBLY**

(a) Connect the instrument panel wire connectors to the airbag sensor assembly and spiral cable with sensor sub-assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1810 is not output.

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly

HINT:

DTCs other than B1810 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 20**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

7.	**CHECK CONNECTOR**

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(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

8.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are properly connected.

OK:

The connectors are properly connected.

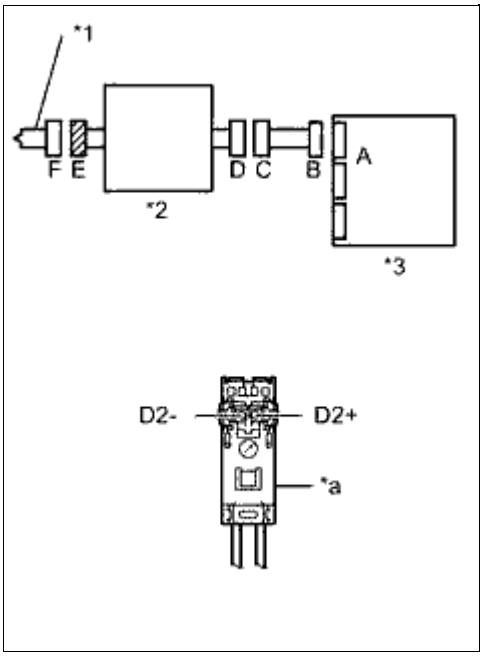
NG ▶ **CONNECT CONNECTORS**

OK ▼

9.	**CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (FOR OPEN)**

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(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D2+ - D2-	Always	Below 1 Ω

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly
*a	Color: Black

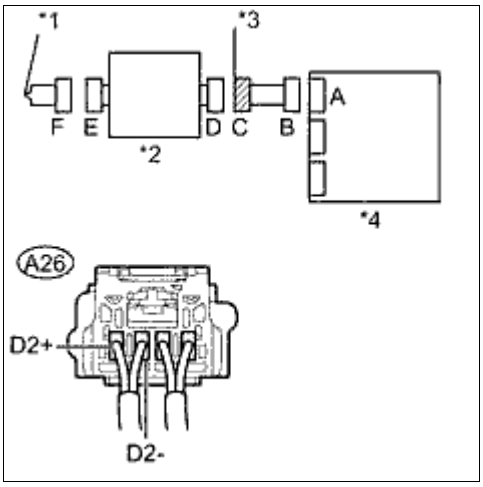
NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

10.	**CHECK INSTRUMENT PANEL WIRE (FOR OPEN)**

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(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A26-4 (D2+) - A26-3 (D2-)	Always	Below 1 Ω

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

11.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

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OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

12.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are properly connected.

OK:

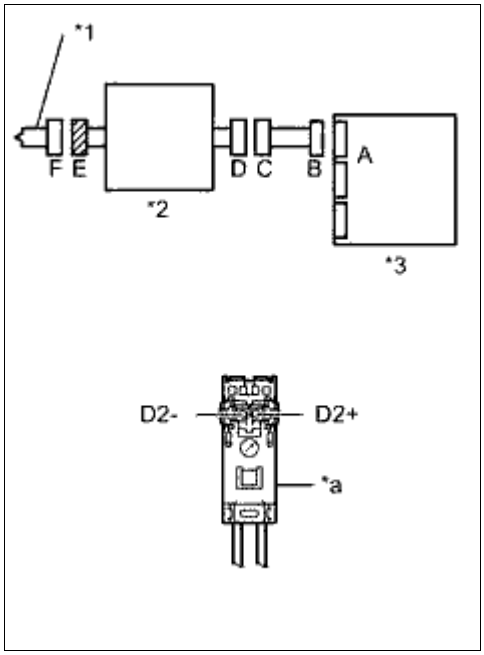
The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

13.	**CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (TO GROUND)**

(a) Disconnect the spiral cable with sensor sub-assembly connector from the instrument panel wire and horn button assembly.



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

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Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D2+ - Body ground	Always	1 MΩ or Higher
D2- - Body ground	Always	1 MΩ or Higher

Text in Illustration

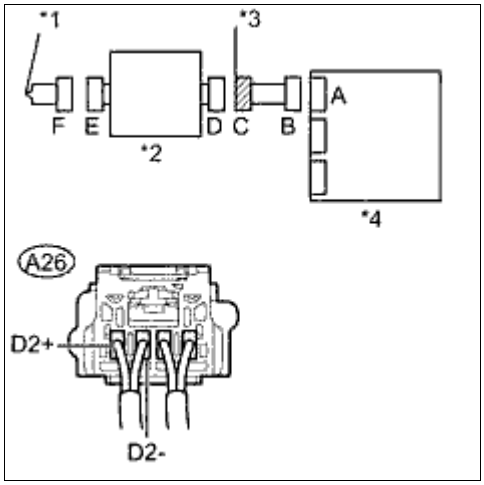
*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly
*a	Color: Black

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

14.	**CHECK INSTRUMENT PANEL WIRE (TO GROUND)**

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A26-4 (D2+) - Body ground	Always	1 MΩ or Higher
A26-3 (D2-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

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*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

15.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

OK ▼

16.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the spiral cable with sensor sub-assembly connectors (on the horn button assembly side) are properly connected.

OK:

The connectors are properly connected.

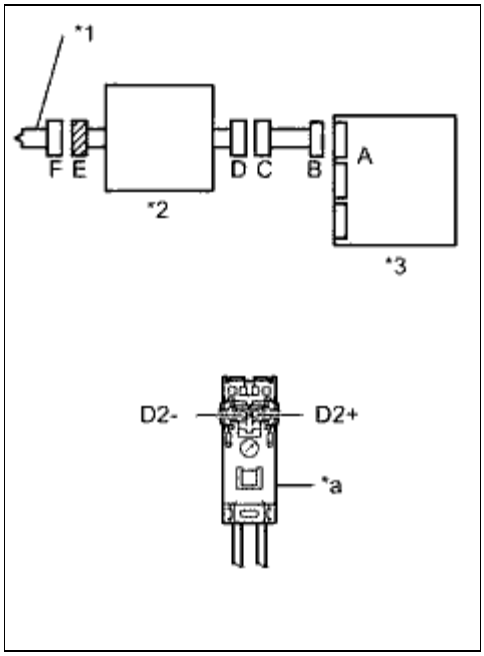
NG ▶ **CONNECT CONNECTORS**

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OK

17.	CHECK SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY (TO B+)

(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
D2+ - Body ground	Ignition switch ON	Below 1 V
D2- - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly
*a	Color: Black

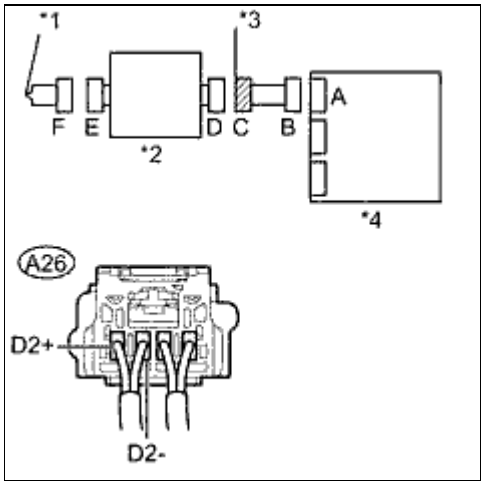
NG ▶ **REPLACE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY**

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OK

18.	CHECK INSTRUMENT PANEL WIRE (TO B+)

(a) Turn the ignition switch off.



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

(c) Disconnect the instrument panel wire connector from the airbag sensor assembly.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A26-4 (D2+) - Body ground	Ignition switch ON	Below 1 V
A26-3 (D2-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK

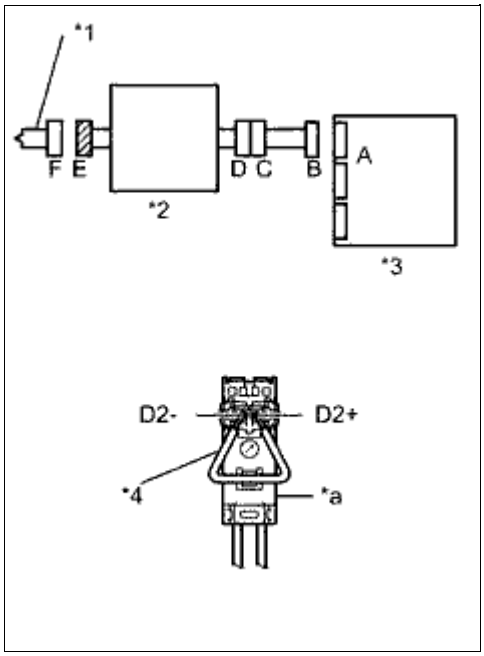
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19.	REPLACE AIRBAG SENSOR ASSEMBLY

HINT:

If continuing from step 18, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect D2+ and D2- of connector E.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTCs B1811, B1812 and B1813 are not output.

Text in Illustration

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*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly
*4	Service Wire
*a	Color: Black

HINT:

DTCs other than B1811, B1812 or B1813 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

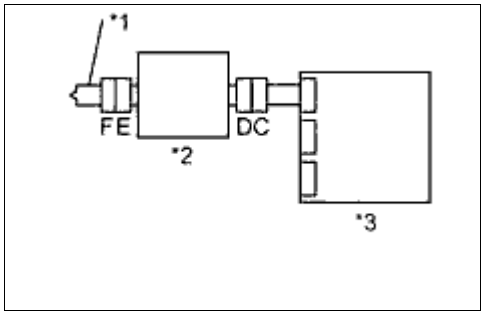
OK ▼

20.	**CHECK HORN BUTTON ASSEMBLY (DRIVER SIDE SQUIB 2ND STEP)**

HINT:

If continuing from step 19, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector E.

(d) Connect the connectors to the horn button assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTCs B1810, B1811, B1812 and B1813 are not output.

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Text in Illustration

*1	Driver Side Squib 2nd Step
*2	Spiral Cable with Sensor Sub-assembly
*3	Airbag Sensor Assembly

HINT:

DTCs other than B1810, B1811, B1812 or B1813 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE HORN BUTTON ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YDZ09JX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1815/54-B1818/54; Short in Front Passenger Side Squib 2nd Step Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1815/54**	**Short in Front Passenger Side Squib 2nd Step Circuit**

DTC	**B1816/54**	**Open in Front Passenger Side Squib 2nd Step Circuit**

DTC	**B1817/54**	**Short to GND in Front Passenger Side Squib 2nd Step Circuit**

DTC	**B1818/54**	**Short to B+ in Front Passenger Side Squib 2nd Step Circuit**

DESCRIPTION

The front passenger side squib 2nd step circuit consists of the airbag sensor assembly and the instrument panel passenger without door airbag assembly.

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

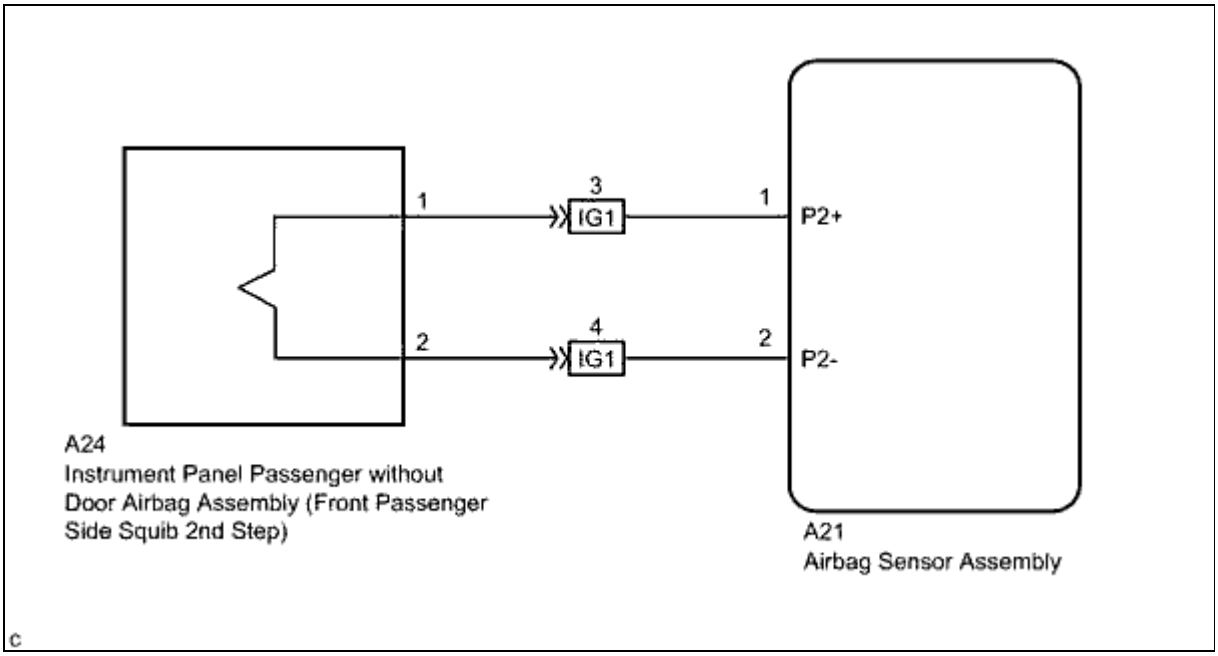
These DTCs are set when a malfunction is detected in the front passenger side squib 2nd step circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1815/54	• The airbag sensor assembly receives a line short circuit signal in the front passenger side squib 2nd step circuit for 2 seconds • Front passenger side squib 2nd step malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib 2nd step) • Airbag sensor assembly
B1816/54	• The airbag sensor assembly receives an open circuit signal in the front passenger side squib 2nd step circuit for 2 seconds • Front passenger side squib 2nd step malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib 2nd step) • Airbag sensor assembly
B1817/54	• The airbag sensor assembly receives a short circuit to ground signal in the front passenger side squib 2nd step circuit for 0.5 seconds • Front passenger side squib 2nd step	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib 2nd

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DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
	malfunction • Airbag sensor assembly malfunction	step) • Airbag sensor assembly
B1818/54	• The airbag sensor assembly receives a short circuit to B+ signal in the front passenger side squib 2nd step circuit for 0.5 seconds • Front passenger side squib 2nd step malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Instrument panel passenger without door airbag assembly (Front passenger side squib 2nd step) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC OUTPUT**

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(a) Proceed to the appropriate step according to the DTC readings.

(1) If using the Techstream (read the 5-digit DTCs): Using the Techstream, check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1815 is output.	A
DTC B1816 is output.	B
DTC B1817 is output.	C
DTC B1818 is output.	D

B ▶ **GO TO STEP 7**

C ▶ **GO TO STEP 11**

D ▶ **GO TO STEP 15**

A ▼

2.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

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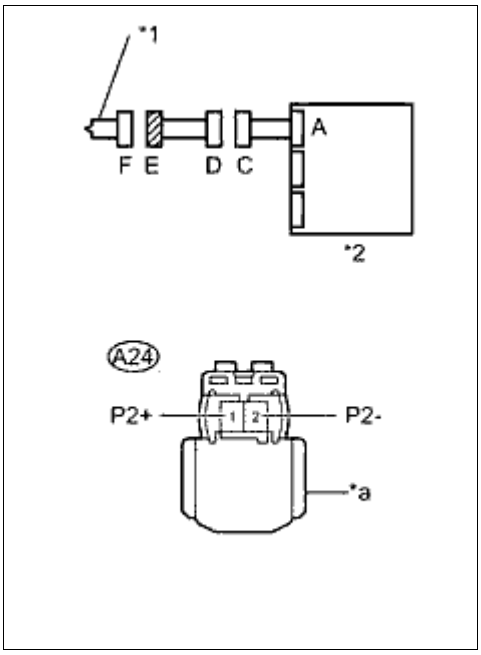
The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

4.	CHECK INSTRUMENT PANEL WIRE ASSEMBLY (FOR SHORT)

(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and instrument panel passenger without door airbag assembly.



(b) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A24-1 (P2+) - A24-2 (P2-)	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly
*a	Color: Black

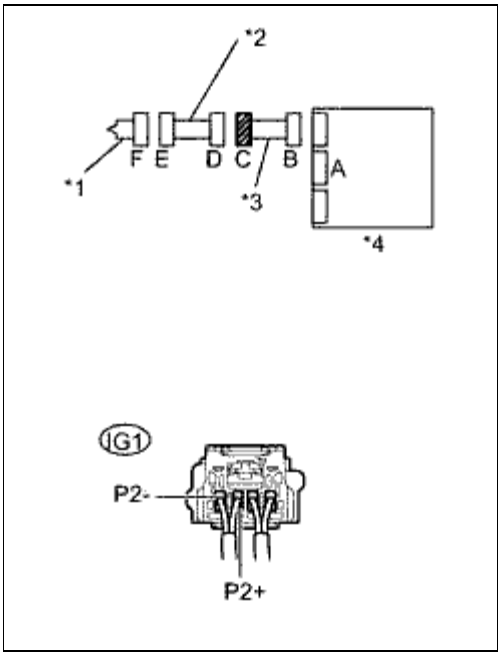
NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

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OK

5.	CHECK INSTRUMENT PANEL WIRE (FOR SHORT)

(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



(b) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-3 (P2+) - IG1-4 (P2-)	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

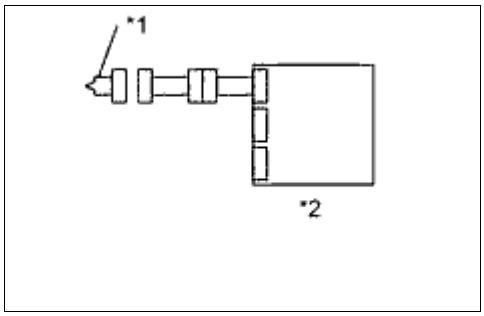
NG **REPLACE INSTRUMENT PANEL WIRE**

OK

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6.	**CHECK AIRBAG SENSOR ASSEMBLY**

(a) Connect the instrument panel wire connectors to the airbag sensor assembly and instrument panel wire assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1815 is not output.

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1815 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 20**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

7.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

8.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

The connectors are properly connected.

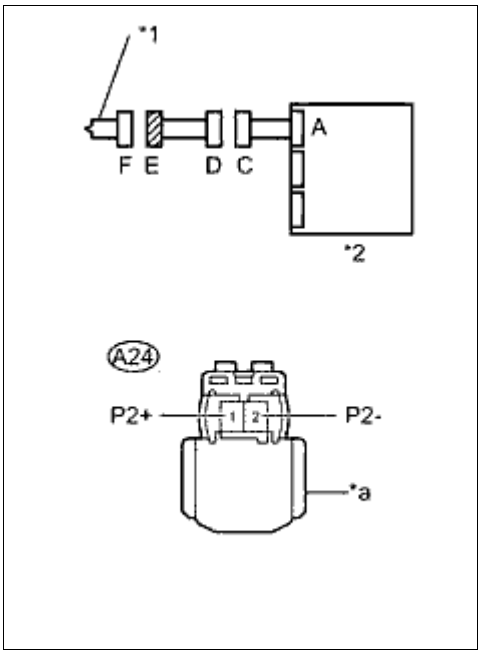
NG ▶ **CONNECT CONNECTORS**

OK ▼

9.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (FOR OPEN)**

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(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and horn button assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A24-1 (P2+) - A24-2 (P2-)	Always	Below 1 Ω

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly
*a	Color: Black

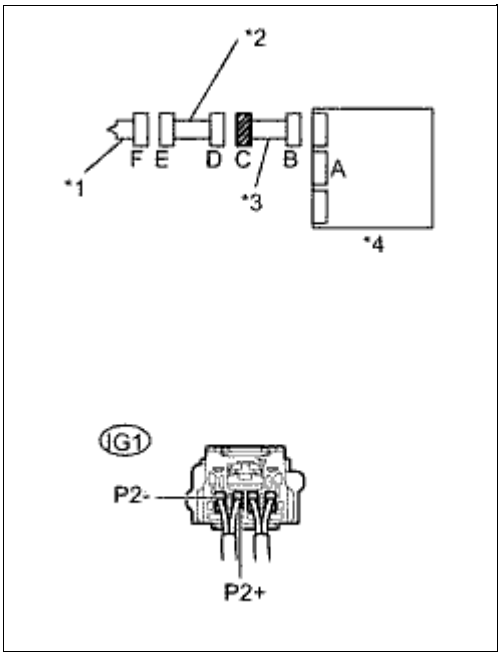
NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

10.	**CHECK INSTRUMENT PANEL WIRE (FOR OPEN)**

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(a) Disconnect the instrument panel wire connector assembly from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-3 (P2+) - IG1-4 (P2-)	Always	Below 1 Ω

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

11.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

12.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

The connectors are properly connected.

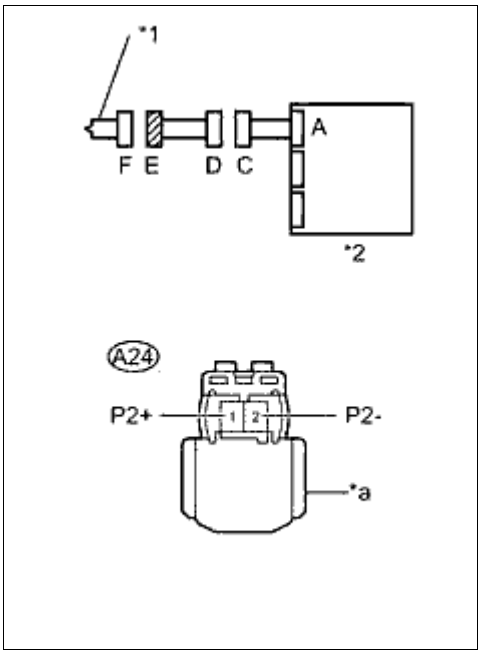
NG ▶ **CONNECT CONNECTORS**

OK ▼

13.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (TO GROUND)**

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(a) Disconnect the spiral cable with sensor sub-assembly connectors from the instrument panel wire and horn button assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A24-1 (P2+) - Body ground	Always	1 MΩ or Higher
A24-2 (P2-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly
*a	Color: Black

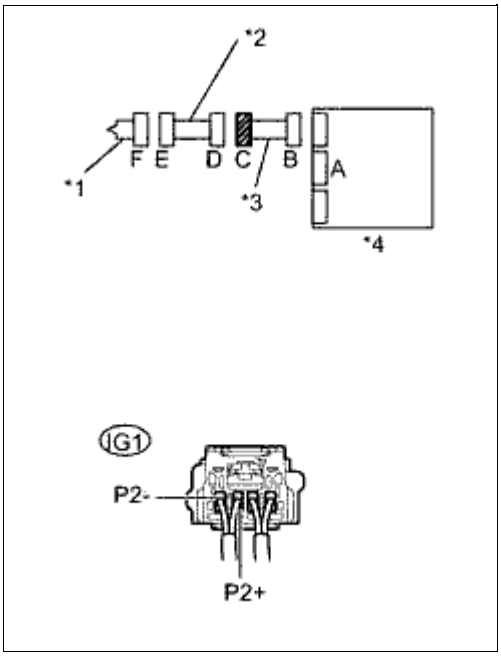
NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

14.	**CHECK INSTRUMENT PANEL WIRE (TO GROUND)**

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(a) Disconnect the instrument panel wire connector from the airbag sensor assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-3 (P2+) - Body ground	Always	1 MΩ or Higher
IG1-4 (P2-) - Body ground	Always	1 MΩ or Higher

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 19**

A ▶ **REPLACE INSTRUMENT PANEL WIRE**

15.	**CHECK CONNECTOR**

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(a) Turn the ignition switch off.

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

(c) Check that the instrument panel wire assembly connectors (on the instrument panel passenger without door airbag assembly side) are not damaged.

OK:

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

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▼

16.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the instrument panel wire assembly.

OK:

The connectors are properly connected.

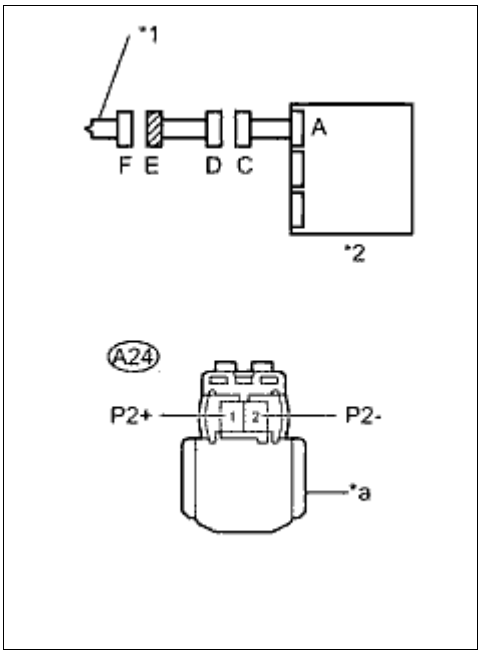
NG ▶ **CONNECT CONNECTORS**

OK ▼

17.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY (TO B+)**

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(a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and horn button assembly.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A24-1 (P2+) - Body ground	Ignition switch ON	Below 1 V
A24-2 (P2-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly
*a	Color: Black

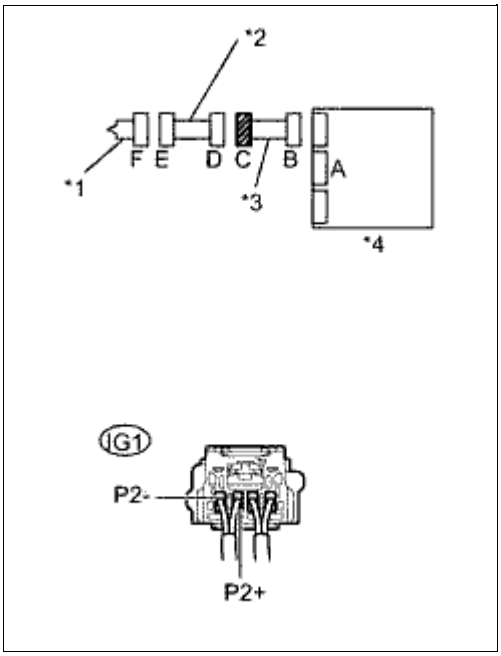
NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK
▼

18.	**CHECK INSTRUMENT PANEL WIRE (TO B+)**

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(a) Turn the ignition switch off.



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

(c) Disconnect the instrument panel wire connector from the airbag sensor assembly.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG1-3 (P2+) - Body ground	Always	Below 1 V
IG1-4 (P2-) - Body ground	Always	Below 1 V

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Instrument Panel Wire Assembly
*3	Instrument Panel Wire
*4	Airbag Sensor Assembly

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

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19.	CHECK AIRBAG SENSOR ASSEMBLY

HINT:

If continuing from step 14, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.

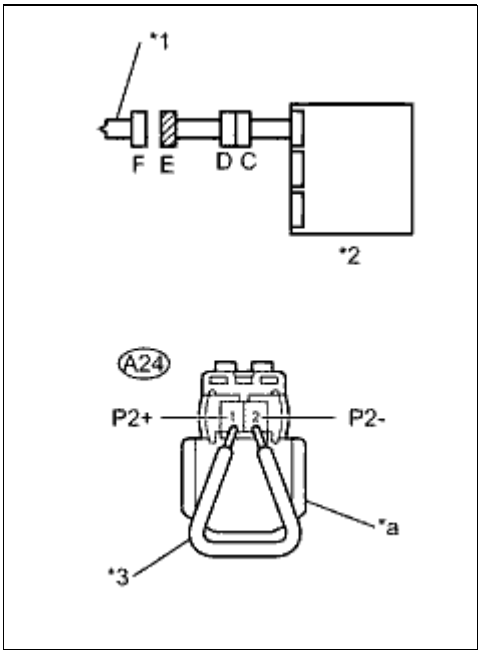
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect A24-1 (P2+) and A24-2 (P2-) of connector E.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.



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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTCs B1816, B1817 and B1818 are not output.

Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly
*3	Service Wire
*a	Color: Black

HINT:

DTCs other than B1816, B1817 or B1818 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

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OK

20.	**CHECK INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB 2nd STEP)**

HINT:

If continuing from step 19, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.

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

(c) Disconnect the service wire from connector C.

(d) Connect the connectors to the instrument panel passenger without door airbag assembly.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

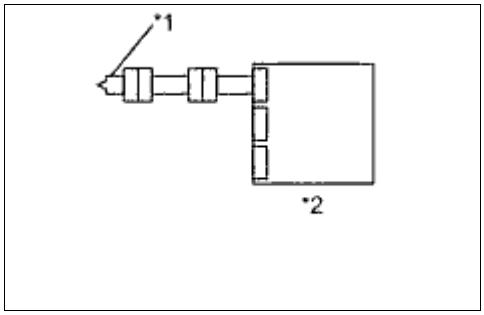
(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1815, B1816, B1817 and B1818 are not output.



Text in Illustration

*1	Front Passenger Side Squib 2nd Step
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1815, B1816, B1817 or B1818 may be output at this time, but they are not related to this check.

NG **REPLACE INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY**

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OK ▶ USE SIMULATION METHOD TO CHECK

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000XFJ0V7X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B181A/7A-B181D/7A; Short in Passenger Side Airbag Variable Vent Hole Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B181A/7A**	**Short in Passenger Side Airbag Variable Vent Hole Squib Circuit**

DTC	**B181B/7A**	**Open in Passenger Side Airbag Variable Vent Hole Squib Circuit**

DTC	**B181C/7A**	**Short to GND in Passenger Side Airbag Variable Vent Hole Squib Circuit**

DTC	**B181D/7A**	**Short to B+ in Passenger Side Airbag Variable Vent Hole Squib Circuit**

DESCRIPTION

The passenger side airbag variable vent hole squib circuit consists of the airbag sensor assembly and instrument panel passenger airbag assembly.

The airbag sensor assembly uses this circuit to deploy the airbag when deployment conditions are met.

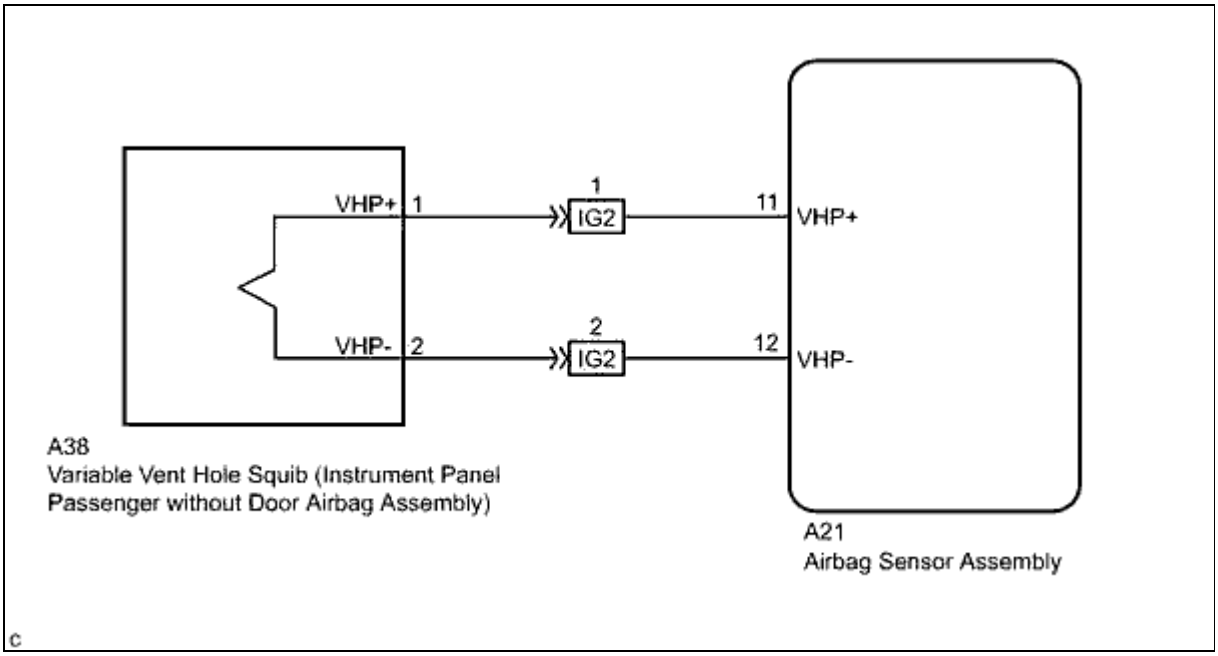
These DTCs are stored when a malfunction is detected in the passenger side airbag variable vent hole squib circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B181A/7A	• The airbag sensor assembly receives a line short circuit signal in the passenger side airbag variable vent hole squib circuit during primary check. • Passenger side airbag variable vent hole squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Instrument panel wire assembly • Variable vent hole squib (Instrument panel passenger without door airbag assembly) • Airbag sensor assembly
B181B/7A	• The airbag sensor assembly receives an open circuit signal in the passenger side airbag variable vent hole squib circuit. • Passenger side airbag variable vent hole squib malfunction • Airbag sensor assembly malfunction	
B181C/7A	• The airbag sensor assembly receives a short circuit to ground signal in the passenger side airbag variable vent hole squib circuit. • Passenger side airbag variable vent hole squib malfunction	

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DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
	• Airbag sensor assembly malfunction	
B181D/7A	• The airbag sensor assembly receives a short circuit to B+ signal in the passenger side airbag variable vent hole squib circuit. • Passenger side airbag variable vent hole squib malfunction • Airbag sensor assembly malfunction	

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

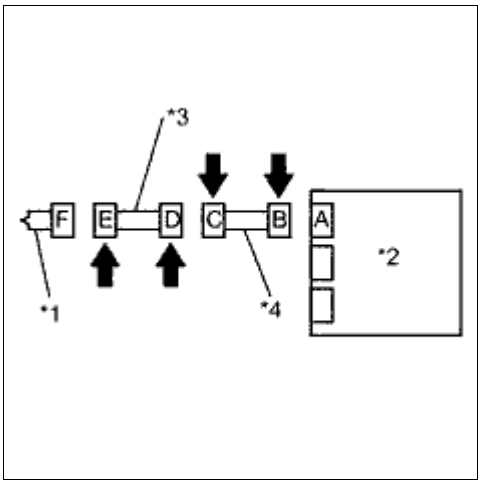
1.	**CHECK CONNECTORS**

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(a) Turn the ignition switch off.

Text in Illustration

*1	Variable Vent Hole Squib
*2	Airbag Sensor Assembly
*3	Instrument panel wire assembly
*4	Instrument Panel Wire



(b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check that the connectors are properly connected to the instrument panel passenger airbag assembly and airbag sensor assembly. Also check that the connectors that link the instrument panel wire and instrument panel wire assembly are properly connected.

OK:

The connectors are properly connected.

HINT:

If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

(d) Disconnect the connectors from the instrument panel passenger airbag assembly and airbag sensor assembly. Also disconnect the instrument panel wire from the instrument panel wire assembly.

(e) Check that the terminals of the connectors are not damaged.

OK:

The terminals are not deformed or damaged.

(f) Check that the instrument panel wire assembly connector (on the instrument panel passenger airbag assembly side) is not damaged.

OK:

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

(g) Check that the short springs for the instrument panel wire and instrument panel wire assembly with the activation prevention mechanism are not deformed or damaged.

OK:

The short springs are not deformed or damaged.

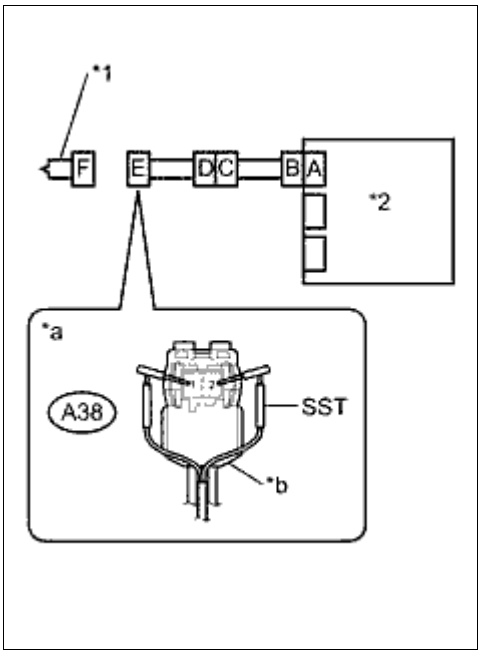
NG ▶ **REPLACE WIRE HARNESS**

OK ▼

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2.	**CHECK INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY (VARIABLE VENT HOLE SQUIB)**

(a) Connect the instrument panel wire to the instrument panel wire assembly and airbag sensor assembly.



Text in Illustration

*1	Variable Vent Hole Squib
*2	Airbag Sensor Assembly
*a	Front view of wire harness connector (to Instrument Panel Passenger without Door Airbag Assembly)
*b	Color: Green

(b) Connect SST (resistance 2.1 Ω) to connector E (green connector).

CAUTION:

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

NOTICE:

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

SST: 09843-18061

(c) Connect the cable to the negative (-) battery terminal.

(d) Clear the DTCs stored in memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B181A/7A, B181B/7A, B181C/7A or B181D/7A is not output.

HINT:

Codes other than DTCs B181A/7A, B181B/7A, B181C/7A and B181D/7A may be output at this time, but they are not related to this check.

(h) Turn the ignition switch off.

(i) Disconnect the cable from the negative (-) battery terminal.

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CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(j) Disconnect SST from connector E.

NG ▶ **GO TO STEP 3**

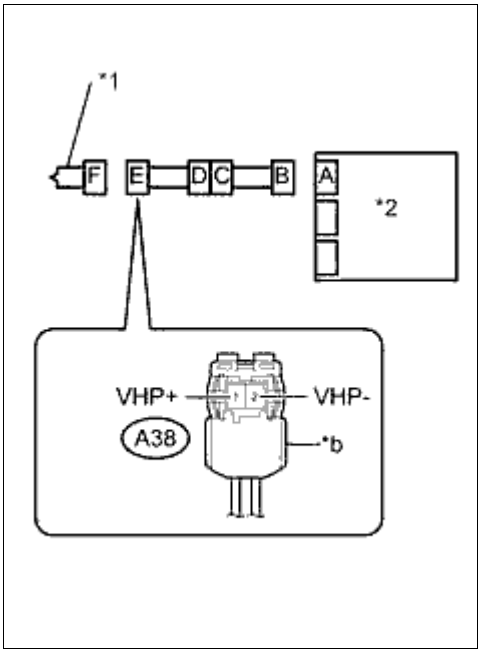
OK ▶ **REPLACE INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY**

3.	**CHECK VARIABLE VENT HOLE SQUIB CIRCUIT**

(a) Disconnect the instrument panel wire from the airbag sensor assembly.

Text in Illustration

*1	Variable Vent Hole Squib
*2	Airbag Sensor Assembly
*a	Front view of wire harness connector (to Instrument Panel Passenger without Door Airbag Assembly)
*b	Color: Green



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

(1) Connect the cable to the negative (-) battery terminal.

(2) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - Body ground	Ignition switch ON	Below 1 V
A38-2 (VHP-) - Body ground	Ignition switch ON	Below 1 V

(4) Turn the ignition switch off.

(5) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

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Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check for an open in the circuit.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - A38-2 (VHP-)	Always	Below 1 Ω

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - Body ground	Always	1 MΩ or higher
A38-2 (VHP-) - Body ground	Always	1 MΩ or higher

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - A38-2 (VHP-)	Always	1 MΩ or higher

(3) Restore the released activation prevention mechanism of connector B to the original condition.

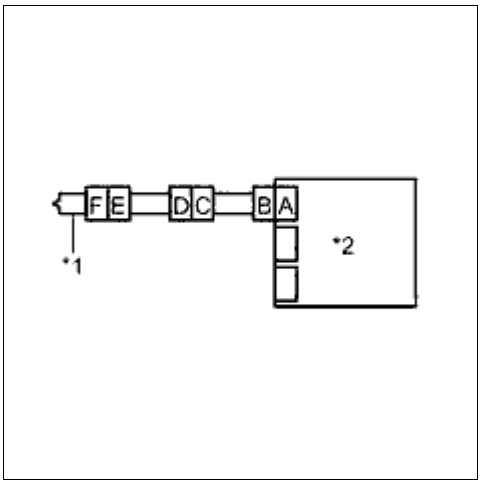
NG ▶ **GO TO STEP 5**

OK ▼

4.	**CHECK DTC**

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(a) Connect the connectors to the instrument panel passenger without door airbag assembly and airbag sensor assembly.



Text in Illustration

*1	Variable Vent Hole Squib
*2	Airbag Sensor Assembly

(b) Connect the cable to the negative (-) battery terminal.

(c) Clear the DTCs stored in memory INFO .

(d) Turn the ignition switch off.

(e) Turn the ignition switch to ON, and wait for at least 60 seconds.

(f) Check for DTCs INFO .

OK:

DTC B181A/7A, B181B/7A, B181C/7A or B181D/7A is not output.

HINT:

Codes other than DTCs B181A/7A, B181B/7A, B181C/7A and B181D/7A may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

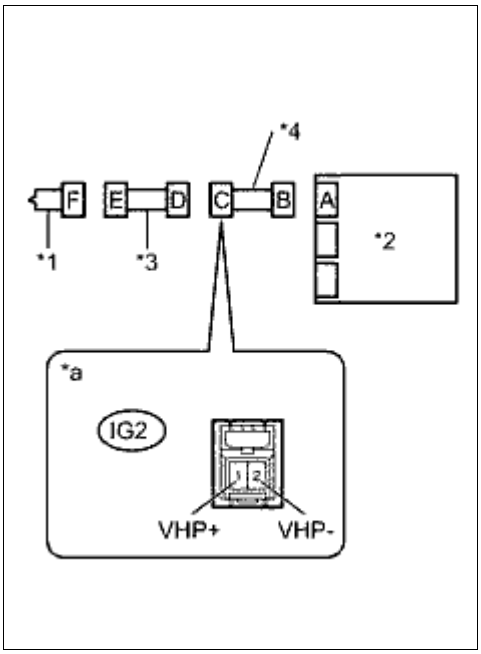
5.	**CHECK INSTRUMENT PANEL WIRE**

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(a) Disconnect the instrument panel wire assembly from the instrument panel wire.

Text in Illustration

*1	Variable Vent Hole Squib
*2	Airbag Sensor Assembly
*3	Instrument Panel Wire Assembly
*4	Instrument Panel Wire
*a	Front view of wire harness connector (to Instrument Panel Wire Assembly)



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

(1) Connect the cable to the negative (-) battery terminal.

(2) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
IG2-1 (VHP+) - Body ground	Ignition switch ON	Below 1 V
IG2-2 (VHP-) - Body ground	Ignition switch ON	Below 1 V

(4) Turn the ignition switch off.

(5) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check for an open in the circuit.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG2-1 (VHP+) - IG2-2 (VHP-)	Always	Below 1 Ω

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

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

Standard Resistance:

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG2-1 (VHP+) - Body ground	Always	1 MΩ or higher
IG2-2 (VHP-) - Body ground	Always	1 MΩ or higher

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
IG2-1 (VHP+) - IG2-2 (VHP-)	Always	1 MΩ or higher

(3) Restore the released activation prevention mechanism of connector B to the original condition.

NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

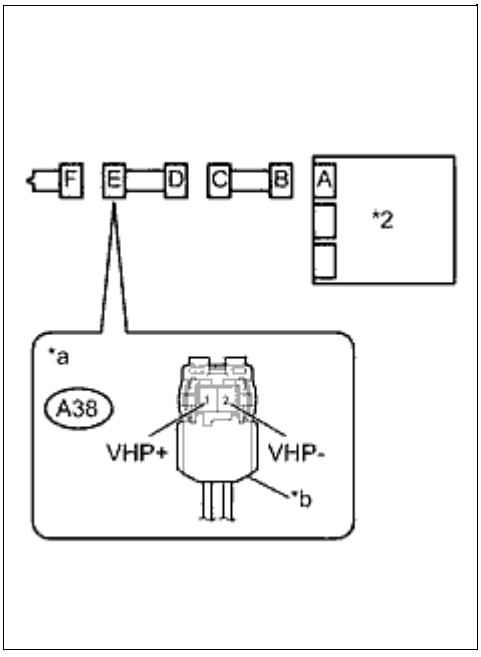
OK ▼

6.	**CHECK INSTRUMENT PANEL WIRE ASSEMBLY**

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

Text in Illustration

*1	Variable Vent Hole Squib
*2	Airbag Sensor Assembly
*3	Instrument Panel Wire Assembly
*4	Instrument Panel Wire
*a	Front view of wire harness connector (to Instrument Panel Passenger without Door Airbag Assembly)
*b	Color: Green



(1) Connect the cable to the negative (-) battery terminal.

(2) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH	SPECIFIED

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	CONDITION	CONDITION
A38-1 (VHP+) - Body ground	Ignition switch ON	Below 1 V
A38-2 (VHP-) - Body ground	Ignition switch ON	Below 1 V

(4) Turn the ignition switch off.

(5) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(b) Check for an open in the circuit.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - A38-2 (VHP-)	Always	Below 1 Ω

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - Body ground	Always	1 MΩ or higher
A38-2 (VHP-) - Body ground	Always	1 MΩ or higher

(d) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A38-1 (VHP+) - A38-2 (VHP-)	Always	1 MΩ or higher

(3) Restore the released activation prevention mechanism of connector D to the original condition.

NG ▶ **REPLACE INSTRUMENT PANEL WIRE ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000015CK00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1820/55-B1823/55; Short in Front Driver Side - Side Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1820/55**	**Short in Front Driver Side - Side Squib Circuit**

DTC	**B1821/55**	**Open in Front Driver Side - Side Squib Circuit**

DTC	**B1822/55**	**Short to GND in Front Driver Side - Side Squib Circuit**

DTC	**B1823/55**	**Short to B+ in Front Driver Side - Side Squib Circuit**

DESCRIPTION

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

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

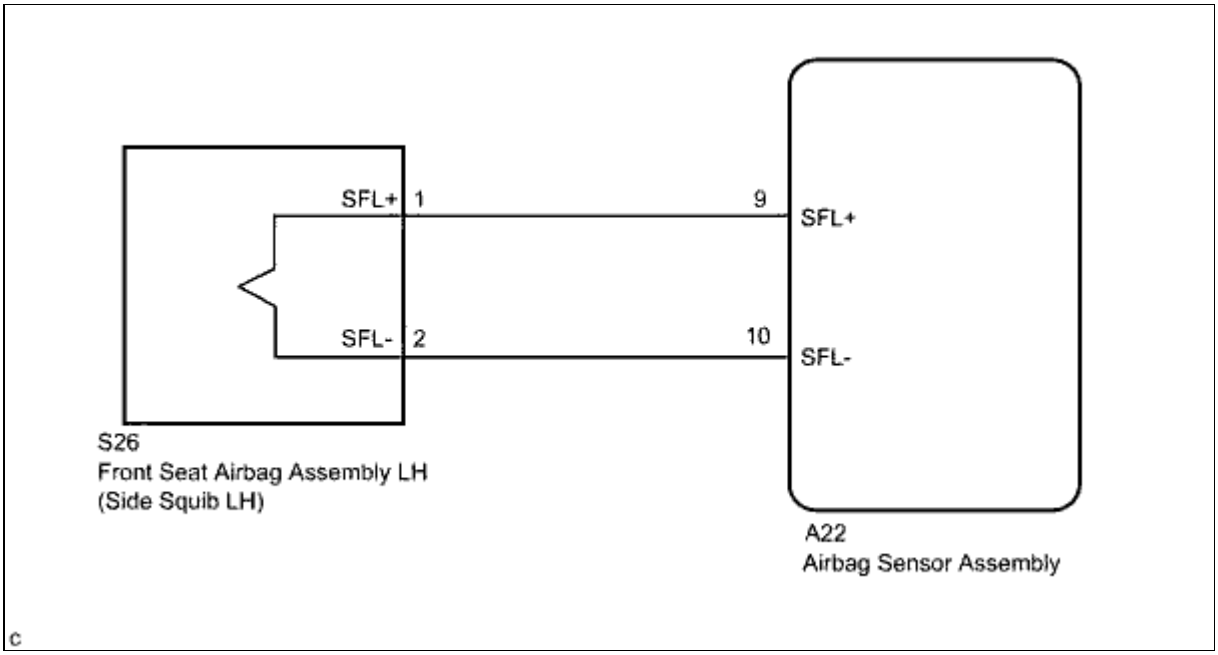
These DTCs are set when a malfunction is detected in the side squib LH circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1820/55	• The airbag sensor assembly receives a line short circuit signal in the side squib LH circuit for 2 seconds • Side squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Front seat airbag assembly LH (Side squib LH) • Airbag sensor assembly
B1821/55	• The airbag sensor assembly receives an open circuit signal in the side squib LH circuit for 2 seconds • Side squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Front seat airbag assembly LH (Side squib LH) • Airbag sensor assembly
B1822/55	• The airbag sensor assembly receives a short circuit to ground signal in the side squib LH circuit for 0.5 seconds • Side squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Front seat airbag assembly LH (Side squib LH) • Airbag sensor assembly
B1823/55	• The airbag sensor assembly receives a short circuit to B+ signal in the side squib LH circuit for 0.5 seconds • Side squib LH malfunction	• No. 2 floor wire • Front seat airbag assembly LH (Side squib

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DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
	• Airbag sensor assembly malfunction	LH) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs):

Using the Techstream, check for DTCs INFO .

Result

RESULT	PROCEED TO

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RESULT	PROCEED TO
DTC B1820 is output.	A
DTC B1821 is output.	B
DTC B1822 is output.	C
DTC B1823 is output.	D

B ▶ **GO TO STEP 3**

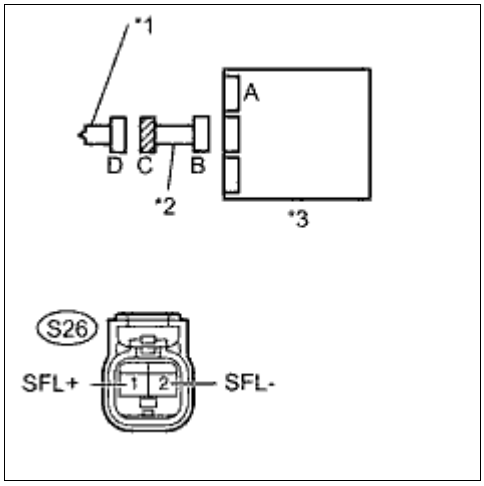
C ▶ **GO TO STEP 4**

D ▶ **GO TO STEP 5**

A
▼

2.	**CHECK NO. 2 FLOOR WIRE (FOR SHORT)**

(a) Release the activation prevention mechanism built into connector B INFO .



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S26-1 (SFL+) - S26-2 (SFL-)	Always	1 MΩ or Higher

Text in Illustration

*1	Side Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

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Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 6**

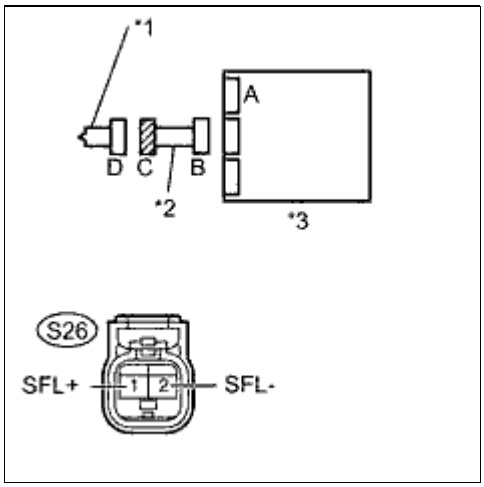
A ▶ **REPLACE NO. 2 FLOOR WIRE**

3.	**CHECK NO. 2 FLOOR WIRE (FOR OPEN)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S26-1 (SFL+) - S26-2 (SFL-)	Always	Below 1 Ω



Text in Illustration

*1	Side Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 7**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

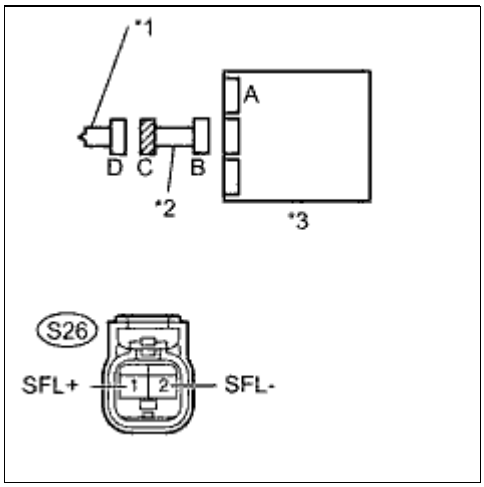
4.	**CHECK NO. 2 FLOOR WIRE (TO GROUND)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S26-1 (SFL+) - Body ground	Always	1 MΩ or Higher
S26-2 (SFL-) - Body ground	Always	1 MΩ or Higher



Text in Illustration

*1	Side Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

Result

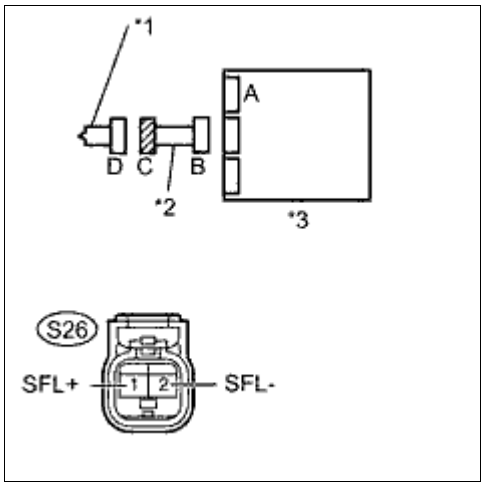
RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 7**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

5.	**CHECK NO. 2 FLOOR WIRE (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

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TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
S26-1 (SFL+) - Body ground	Ignition switch ON	Below 1 V
S26-2 (SFL-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Side Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

Result

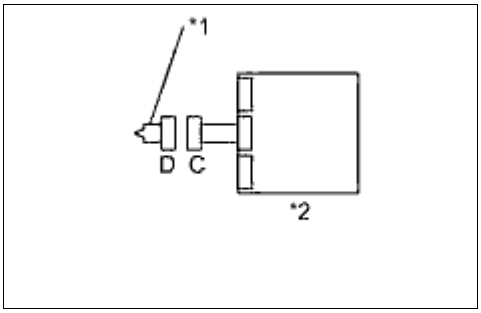
RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 7**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

6.	**CHECK AIRBAG SENSOR ASSEMBLY**

(a) Connect the connectors to the airbag sensor assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1820 is not output.

Text in Illustration

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*1	Side Squib LH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1820 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 8**

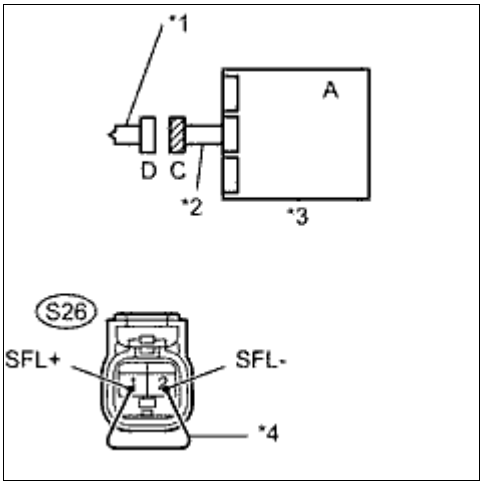
A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

7.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 5, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect S26-1 (SFL+) and S26-2 (SFL-) of connector C.

NOTICE:

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

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

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(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1821, B1822 and B1823 are not output.

Text in Illustration

*1	Side Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly
*4	Service Wire

HINT:

DTCs other than B1821, B1822 or B1823 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▼

8.	**CHECK FRONT SEAT AIRBAG ASSEMBLY LH**

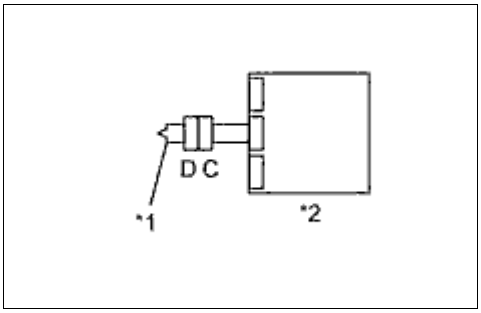
HINT:

If continuing from step 9, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.

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

(c) Disconnect the service wire from connector C.



(d) Connect the connector to the front seat airbag assembly LH.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60

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seconds.

(j) Check for DTCs INFO .

OK:

DTC B1820, B1821, B1822 and B1823 are not output.

Text in Illustration

*1	Side Squib LH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1820, B1821, B1822 or B1823 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT SEAT AIRBAG ASSEMBLY LH**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000015D200CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1825/56-B1828/56; Short in Front Passenger Side - Side Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1825/56**	**Short in Front Passenger Side - Side Squib Circuit**

DTC	**B1826/56**	**Open in Front Passenger Side - Side Squib Circuit**

DTC	**B1827/56**	**Short to GND in Front Passenger Side - Side Squib Circuit**

DTC	**B1828/56**	**Short to B+ in Front Passenger Side - Side Squib Circuit**

DESCRIPTION

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

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

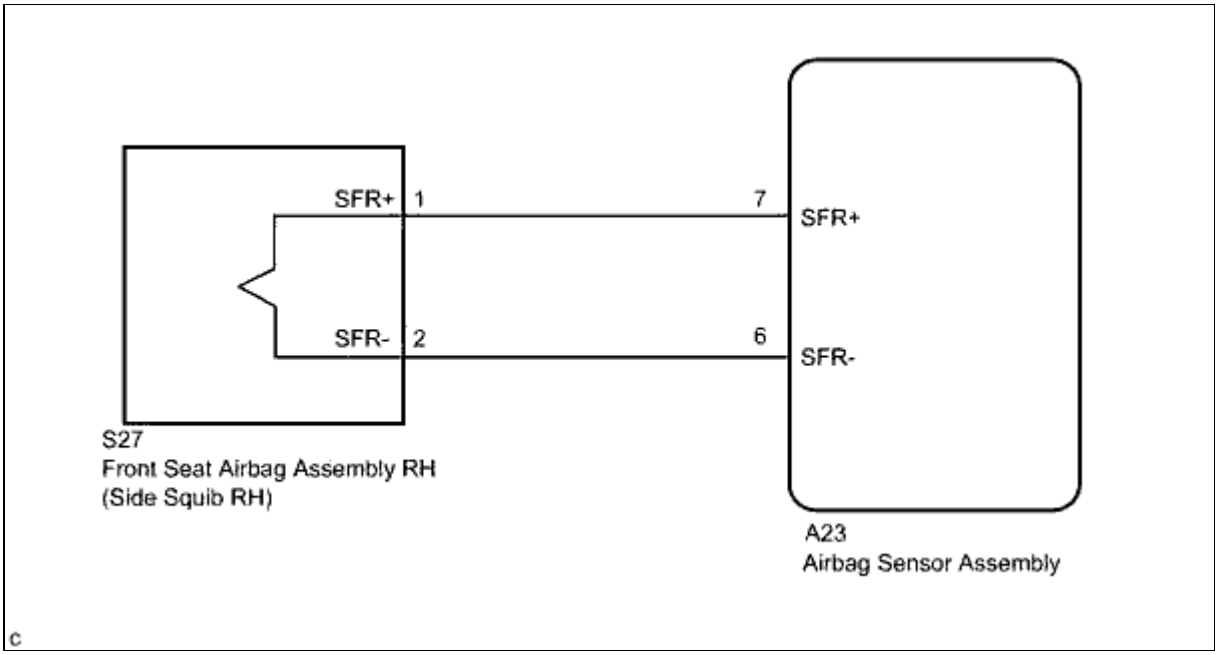
These DTCs are set when a malfunction is detected in the side squib RH circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1825/56	• The airbag sensor assembly receives a line short circuit signal in the side squib RH circuit for 2 seconds • side squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • Front seat airbag assembly RH (Side squib RH) • Airbag sensor assembly
B11826/56	• The airbag sensor assembly receives an open circuit signal in the side squib RH circuit for 2 seconds • side squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • Front seat airbag assembly RH (Side squib RH) • Airbag sensor assembly
B1827/56	• The airbag sensor assembly receives a short circuit to ground signal in the side squib RH circuit for 0.5 seconds • side squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • Front seat airbag assembly RH (Side squib RH) • Airbag sensor assembly
B1828/56	• The airbag sensor assembly receives a short circuit to B+ signal in the side squib RH circuit for 0.5 seconds	• Floor wire • Front seat airbag assembly RH (Side

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DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
	• side squib RH malfunction • Airbag sensor assembly malfunction	squib RH) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs):

Using the Techstream, check for DTCs INFO .

Result

RESULT	PROCEED TO

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RESULT	PROCEED TO
DTC B1825 is output.	A
DTC B1826 is output.	B
DTC B1827 is output.	C
DTC B1828 is output.	D

B ▶ **GO TO STEP 3**

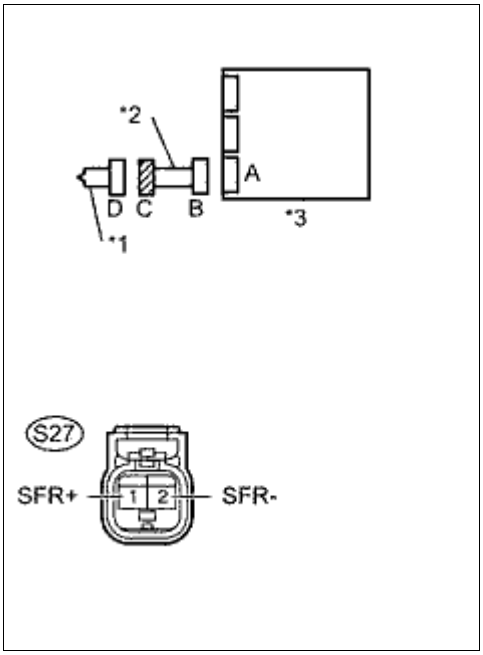
C ▶ **GO TO STEP 4**

D ▶ **GO TO STEP 5**

A ▼

2.	**CHECK FLOOR WIRE (FOR SHORT)**

(a) Release the activation prevention mechanism built into connector B INFO .



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S27-1 (SFR+) - S27-2 (SFR-)	Always	1 MΩ or Higher

Text in Illustration

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*1	Side Squib RH
*2	Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 6**

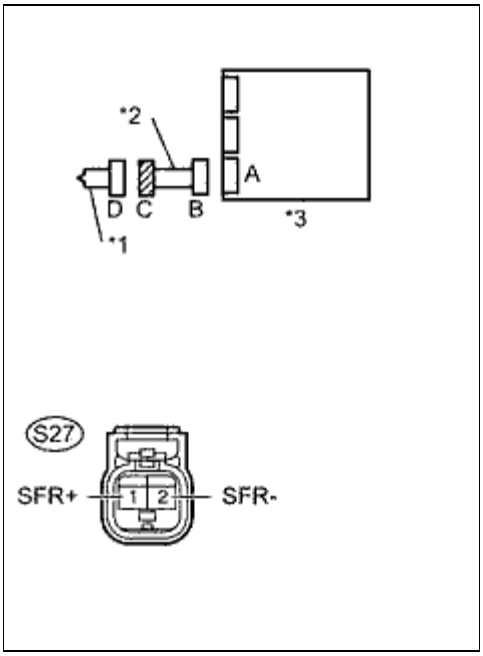
A ▶ **REPLACE FLOOR WIRE**

3.	**CHECK FLOOR WIRE (FOR OPEN)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S27-1 (SFR+) - S27-2 (SFR-)	Always	Below 1 Ω



Text in Illustration

*1	Side Squib RH
*2	Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 7**

A ▶ **REPLACE FLOOR WIRE**

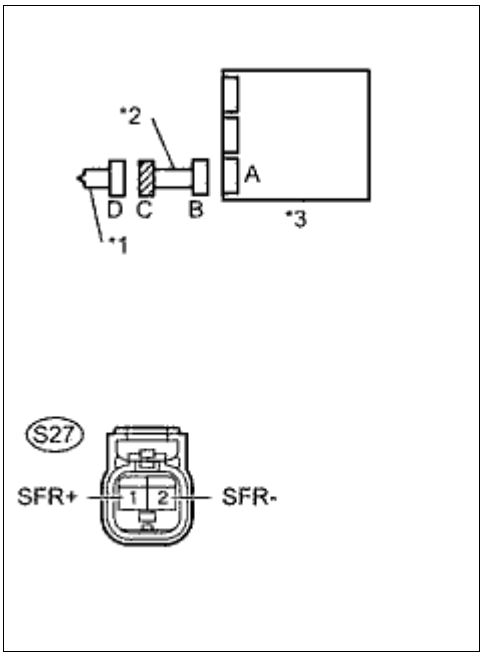
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4.	**CHECK FLOOR WIRE (TO GROUND)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
S27-1 (SFR+) - Body ground	Always	1 MΩ or Higher
S27-2 (SFR-) - Body ground	Always	1 MΩ or Higher



Text in Illustration

*1	Side Squib RH
*2	Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

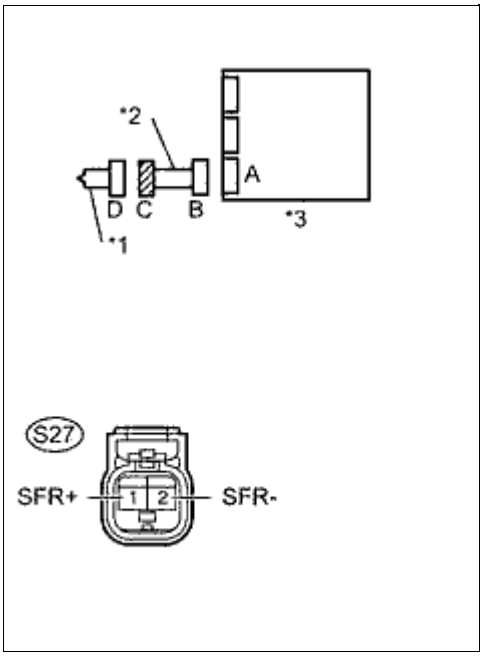
B ▶ **GO TO STEP 7**

A ▶ **REPLACE FLOOR WIRE**

5.	**CHECK FLOOR WIRE (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
S27-1 (SFR+) - Body ground	Ignition switch ON	Below 1 V
S27-2 (SFR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Side Squib RH
*2	Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

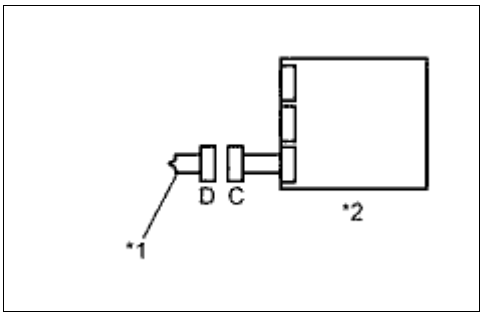
B ▶ **GO TO STEP 7**

A ▶ **REPLACE FLOOR WIRE**

6.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the connectors to the airbag sensor assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1825 is not output.

Text in Illustration

*1	Side Squib RH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1825 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 8**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

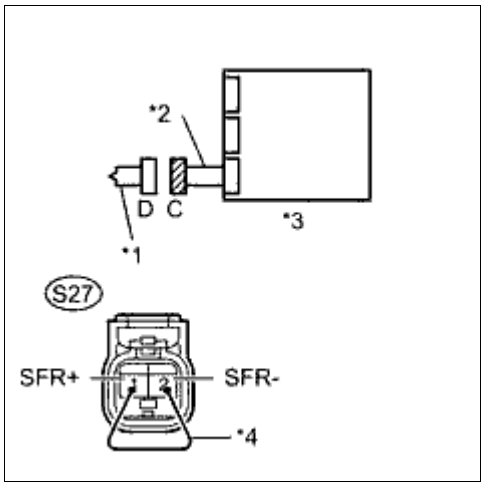
7.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 5, begin from (a). If continuing from any other step, begin from (c).

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(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect S27-1 (SFR+) and S27-2 (SFR-) of connector C.

NOTICE:

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

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear the DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1826, B1827 and B1828 are not output.

Text in Illustration

*1	Side Squib RH
*2	Floor Wire
*3	Airbag Sensor Assembly
*4	Service Wire

HINT:

DTCs other than B1826, B1827 or B1828 may be output at this time, but they are not related to this check.

NG ▶ REPLACE AIRBAG SENSOR ASSEMBLY

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OK

8.	CHECK FRONT SEAT AIRBAG ASSEMBLY RH

HINT:

If continuing from step 9, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.

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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the front seat airbag assembly RH (Side squib RH).

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

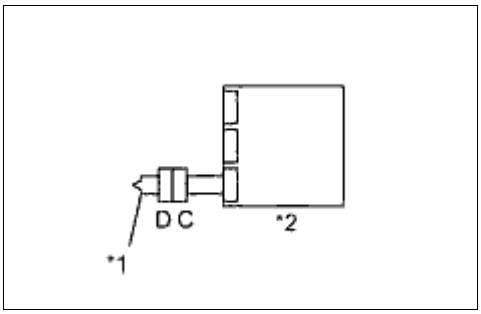
(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1825, B1826, B1827 and B1828 are not output.



Text in Illustration

*1	Side Squib RH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1825, B1826, B1827 or B1828 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT SEAT AIRBAG ASSEMBLY RH**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000015D300CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1830/57-B1833/57; Short in Driver Side Curtain Shield Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1830/57**	**Short in Driver Side Curtain Shield Squib Circuit**

DTC	**B1831/57**	**Open in Driver Side Curtain Shield Squib Circuit**

DTC	**B1832/57**	**Short to GND in Driver Side Curtain Shield Squib Circuit**

DTC	**B1833/57**	**Short to B+ in Driver Side Curtain Shield Squib Circuit**

DESCRIPTION

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

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

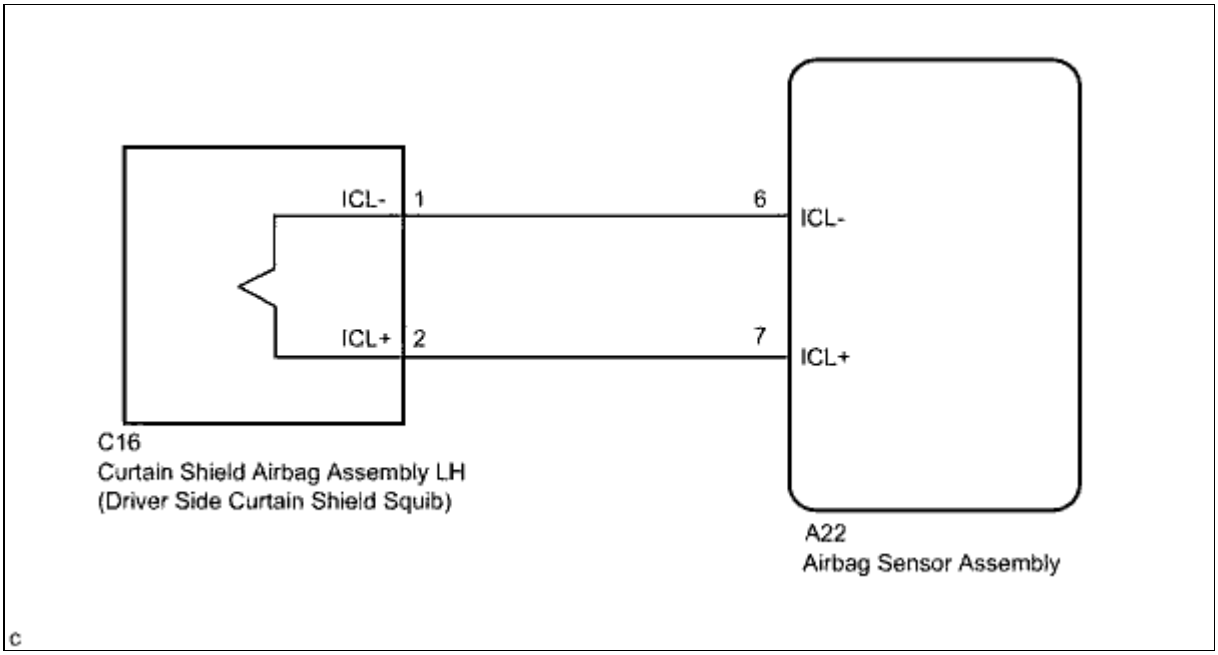
These DTCs are set when a malfunction is detected in the driver side curtain shield squib circuit.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1830/57	• The airbag sensor assembly receives a line short circuit signal in the driver side curtain shield squib circuit for 2 seconds • Driver side curtain shield squib malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Curtain shield airbag assembly LH (Driver side curtain shield squib) • Airbag sensor assembly
B1831/57	• The airbag sensor assembly receives an open circuit signal in the driver side curtain shield squib circuit for 2 seconds • Driver side curtain shield squib malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Curtain shield airbag assembly LH (Driver side curtain shield squib) • Airbag sensor assembly
B1832/57	• The airbag sensor assembly receives a short circuit to ground signal in the driver side curtain shield squib circuit for 0.5 seconds • Driver side curtain shield squib malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • Curtain shield airbag assembly LH (Driver side curtain shield squib) • Airbag sensor assembly
B1833/57	• The airbag sensor assembly receives a short circuit to B+ signal in the driver side curtain	• No. 2 floor wire • Curtain shield airbag

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DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
	shield squib circuit for 0.5 seconds • Driver side curtain shield squib malfunction • Airbag sensor assembly malfunction	assembly LH (Driver side curtain shield squib) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to next step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs):

Using the Techstream, check for DTCs INFO .

Result

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RESULT	PROCEED TO
DTC B1830 is output.	A
DTC B1831 is output.	B
DTC B1832 is output.	C
DTC B1833 is output.	D

B ▶ **GO TO STEP 4**

C ▶ **GO TO STEP 5**

D ▶ **GO TO STEP 6**

A
▼

2.	**CHECK CONNECTOR**

(a) Check that the floor wire connector (on the curtain shield airbag assembly LH side) is not damaged.

OK:

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

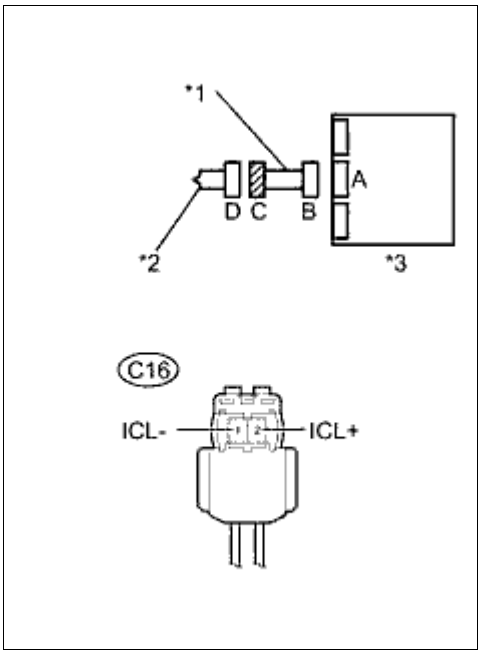
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK
▼

3.	**CHECK NO. 2 FLOOR WIRE (FOR SHORT)**

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(a) Release the activation prevention mechanism built into connector B INFO .



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C16-1 (ICL-) - C16-2 (ICL+)	Always	1 MΩ or Higher

Text in Illustration

*1	No. 2 Floor Wire
*2	Driver Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 7**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

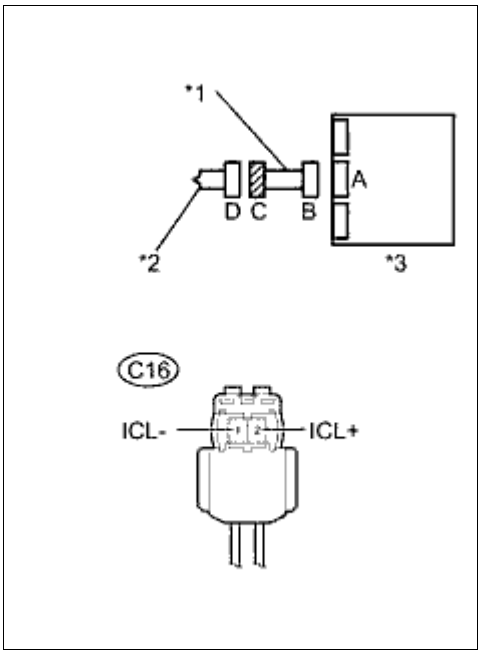
4.	**CHECK NO. 2 FLOOR WIRE (FOR OPEN)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C16-1 (ICL-) - C16-2 (ICL+)	Always	Below 1 Ω



Text in Illustration

*1	No. 2 Floor Wire
*2	Driver Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 8**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

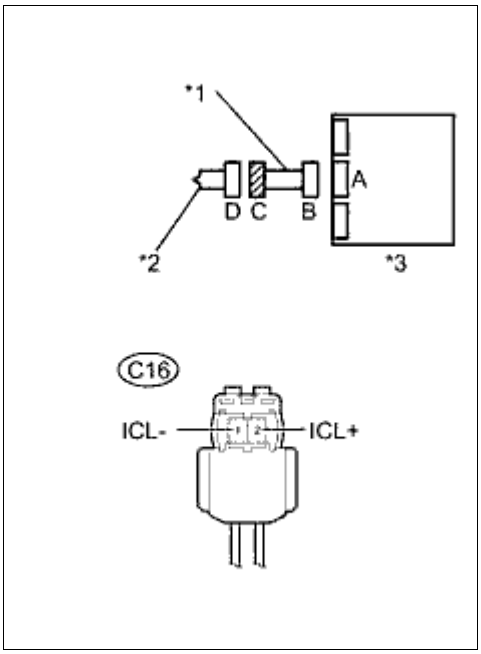
5.	**CHECK NO. 2 FLOOR WIRE (TO GROUND)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C16-1 (ICL-) - Body ground	Always	1 MΩ or Higher
C16-2 (ICL+) - Body ground	Always	1 MΩ or Higher



Text in Illustration

*1	No. 2 Floor Wire
*2	Driver Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

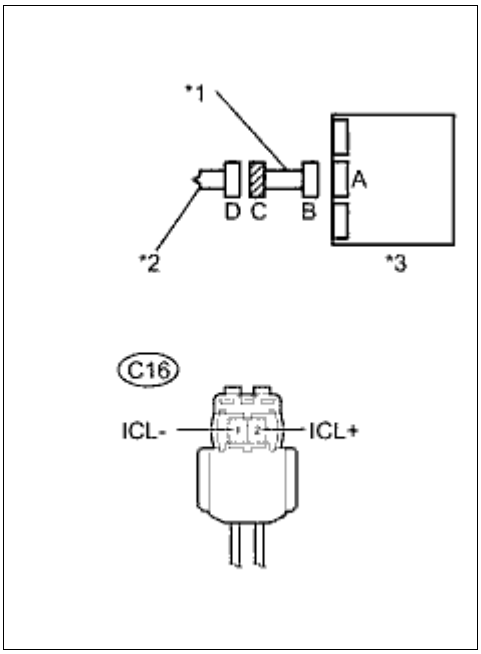
B ▶ **GO TO STEP 8**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

6.	**CHECK NO. 2 FLOOR WIRE (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
C16-1 (ICL-) - Body ground	Ignition switch ON	Below 1 V
C16-2 (ICL+) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	No. 2 Floor Wire
*2	Driver Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

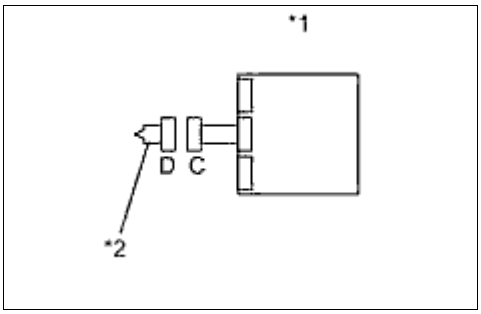
B ▶ **GO TO STEP 8**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

7.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the connectors to the airbag sensor assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1830 is not output.

Text in Illustration

*1	Airbag Sensor Assembly
*2	Driver Side Curtain Shield Squib

HINT:

DTCs other than B1830 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 9**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

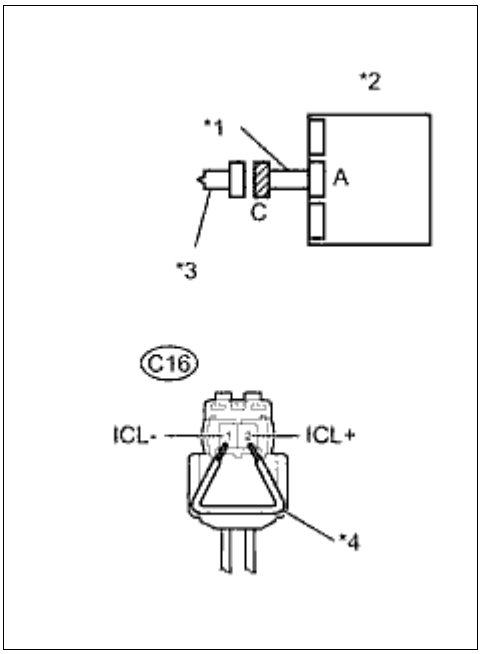
8.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 6, begin from (a). If continuing from any other step, begin from (c).

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(a) Turn the ignition switch off.



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

(c) Connect the connector to the airbag sensor assembly.

(d) Using a service wire, connect C16-1 (ICL-) and C16-2 (ICL+) of connector C.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1831, B1832 and B1833 are not output.

Text in Illustration

*1	No. 2 Floor Wire
*2	Airbag Sensor Assembly
*3	Driver Side Curtain Shield Squib
*4	Service Wire

HINT:

DTCs other than B1831, B1832 or B1833 may be output at this time, but they are not related to this check.

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NG ▶ REPLACE AIRBAG SENSOR ASSEMBLY

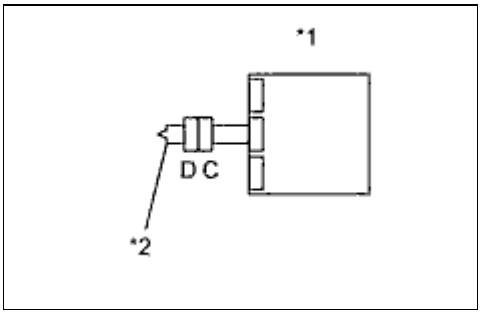
OK ▼

9.	**CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (DRIVER SIDE CURTAIN SHIELD SQUIB)**

HINT:

If continuing from step 11, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the curtain shield airbag assembly LH.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1830, B1831, B1832 and B1833 are not output.

Text in Illustration

*1	Airbag Sensor Assembly
*2	Driver Side Curtain Shield Squib

HINT:

DTCs other than B1830, B1831, B1832 or B1833 may be output at this time, but they are not related to this check.

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NG ▶ REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH

OK ▶ USE SIMULATION METHOD TO CHECK

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000015D500CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1835/58-B1838/58; Short in Front Passenger Side Curtain Shield Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1835/58**	**Short in Front Passenger Side Curtain Shield Squib Circuit**

DTC	**B1836/58**	**Open in Front Passenger Side Curtain Shield Squib Circuit**

DTC	**B1837/58**	**Short to GND in Front Passenger Side Curtain Shield Squib Circuit**

DTC	**B1838/58**	**Short to B+ in Front Passenger Side Curtain Shield Squib Circuit**

DESCRIPTION

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

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

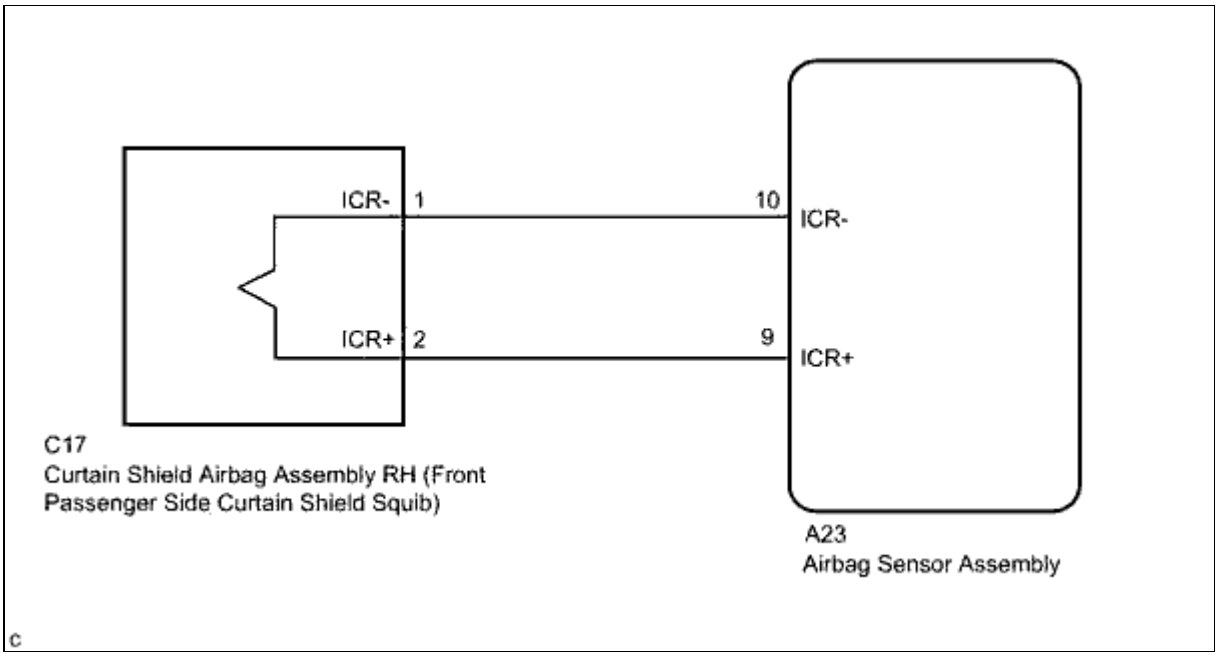
These DTCs are set when a malfunction is detected in the front passenger side curtain shield squib circuit.

DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1835/58	• The airbag sensor assembly receives a line short circuit signal in the front passenger side curtain shield squib circuit for 2 seconds • Front passenger side curtain shield squib malfunction • Airbag sensor assembly malfunction	• Floor wire • Curtain shield airbag assembly RH (Front passenger side curtain shield squib) • Airbag sensor assembly
B1836/58	• The airbag sensor assembly receives an open circuit signal in the front passenger side curtain shield squib circuit for 2 seconds • Front passenger side curtain shield squib malfunction • Airbag sensor assembly malfunction	• Floor wire • Curtain shield airbag assembly RH (Front passenger side curtain shield squib) • Airbag sensor assembly
B1837/58	• The airbag sensor assembly receives a short circuit to ground signal in the front passenger side curtain shield squib circuit for 0.5 seconds • Front passenger side curtain shield squib malfunction • Airbag sensor assembly malfunction	• Floor wire • Curtain shield airbag assembly RH (Front passenger side curtain shield squib) • Airbag sensor assembly

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DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1838/58	• The airbag sensor assembly receives a short circuit to B+ signal in the front passenger side curtain shield squib circuit for 0.5 seconds • Front passenger side curtain shield squib malfunction • Airbag sensor assembly malfunction	• Floor wire • Curtain shield airbag assembly RH (Front passenger side curtain shield squib) • Airbag sensor assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs): Using the Techstream, check for DTCs INFO .

Result

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RESULT	PROCEED TO
B1835 is output.	A
B1836 is output.	B
B1837 is output.	C
B1838 is output.	D

B ▶ **GO TO STEP 4**

C ▶ **GO TO STEP 5**

D ▶ **GO TO STEP 6**

A
▼

2.	**CHECK CONNECTOR**

(a) Check that the floor wire connector (on the curtain shield airbag assembly RH side) is not damaged.

OK:

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

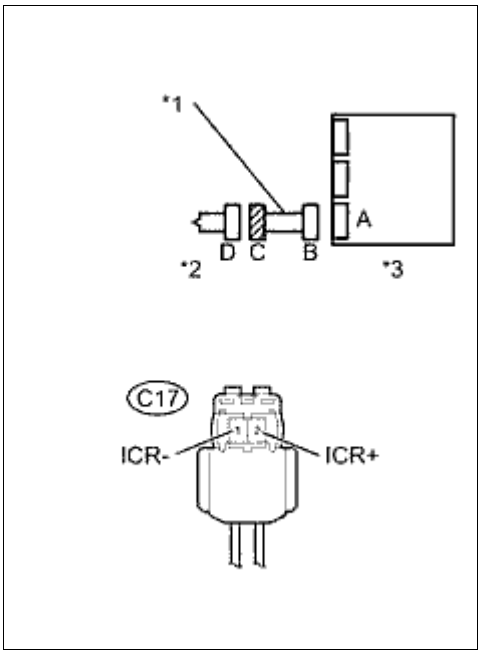
NG ▶ **REPLACE FLOOR WIRE**

OK
▼

3.	**CHECK FLOOR WIRE (FOR SHORT)**

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(a) Release the activation prevention mechanism built into connector B INFO .



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C17-1 (ICR-) - C17-2 (ICR+)	Always	1 MΩ or higher

Text in Illustration

*1	Floor Wire
*2	Front Passenger Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 7**

A ▶ **REPLACE FLOOR WIRE**

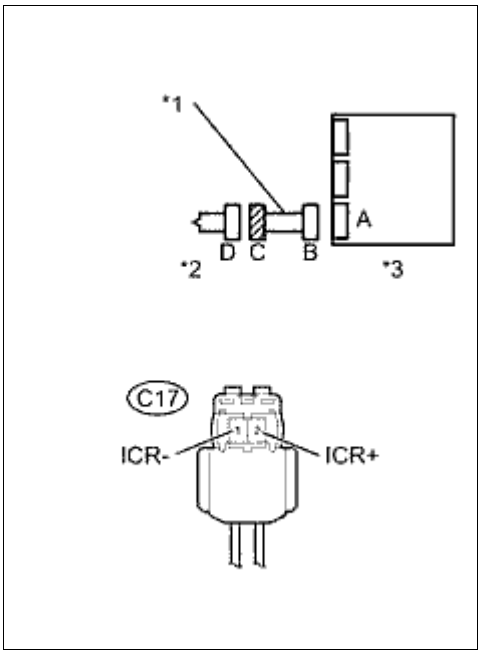
4.	**CHECK FLOOR WIRE (FOR OPEN)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C17-1 (ICR-) - C17-2 (ICR+)	Always	Below 1 Ω



Text in Illustration

*1	Floor Wire
*2	Front Passenger Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 8**

A ▶ **REPLACE FLOOR WIRE**

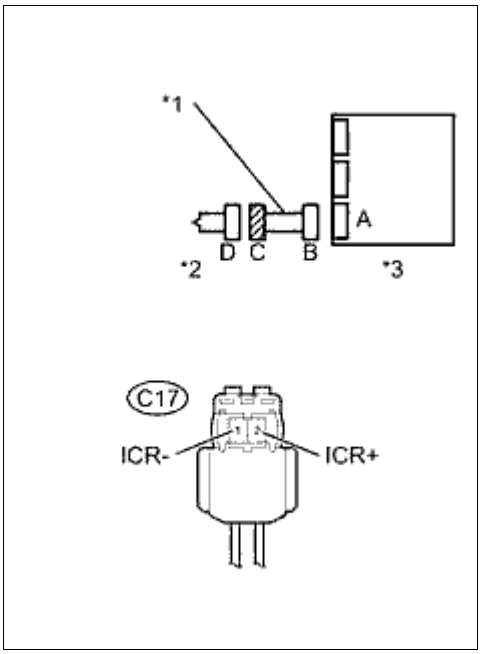
5.	**CHECK FLOOR WIRE (TO GROUND)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C17-1 (ICR-) - Body ground	Always	1 MΩ or higher
C17-2 (ICR+) - Body ground	Always	1 MΩ or higher



Text in Illustration

*1	Floor Wire
*2	Front Passenger Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

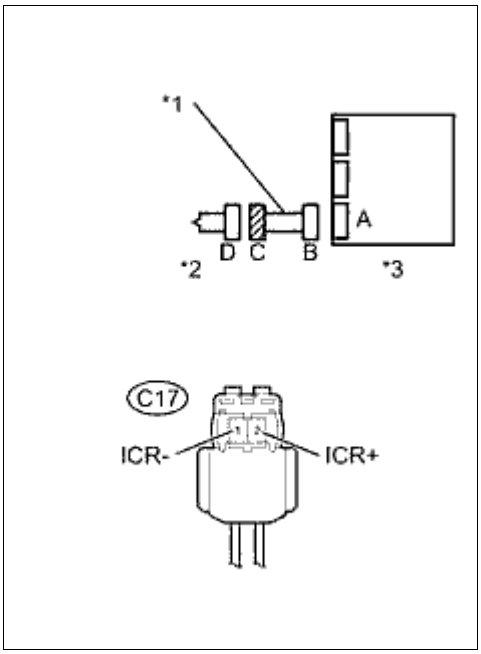
B ▶ **GO TO STEP 8**

A ▶ **REPLACE FLOOR WIRE**

6.	**CHECK FLOOR WIRE (TO B+)**

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



(b) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
C17-1 (ICR-) - Body ground	Ignition switch ON	Below 1 V
C17-2 (ICR+) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Floor Wire
*2	Front Passenger Side Curtain Shield Squib
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

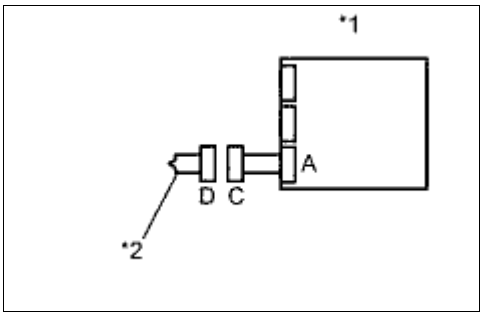
B ▶ **GO TO STEP 8**

A ▶ **REPLACE FLOOR WIRE**

7.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the connectors to the airbag sensor assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1835 is not output.

Text in Illustration

*1	Airbag Sensor Assembly
*2	Front Passenger Side Curtain Shield Squib

HINT:

DTCs other than B1835 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 9**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

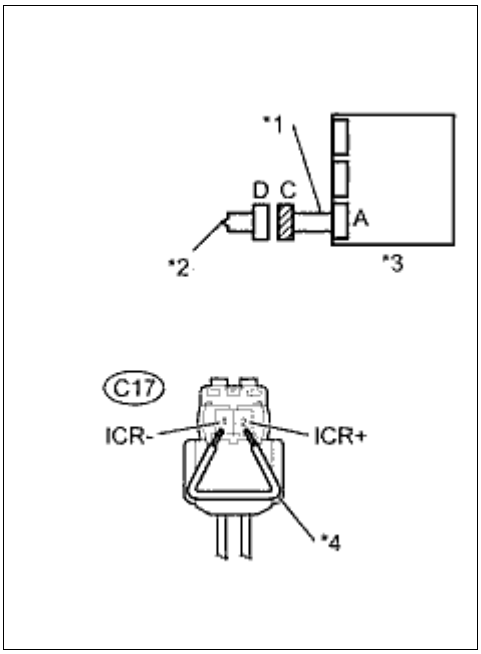
8.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 6, begin from (a). If continuing from any other step, begin from (c).

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(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect C17-1 (ICR-) and C17-2 (ICR+) of connector C.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1836, B1837 and B1838 are not output.

Text in Illustration

*1	Floor Wire
*2	Front Passenger Side Curtain Shield Squib
*3	Airbag Sensor Assembly
*4	Service Wire

HINT:

DTCs other than B1836, B1837 or B1838 may be output at this time, but they are not related to this check.

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NG ▶ REPLACE AIRBAG SENSOR ASSEMBLY

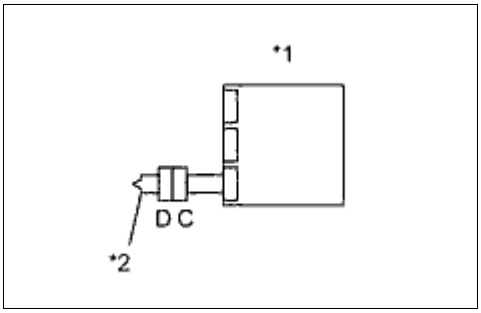
OK ▼

9.	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH

HINT:

If continuing from step 11, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the curtain shield airbag assembly RH.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1835, B1836, B1837 and B1838 are not output.

Text in Illustration

*1	Airbag Sensor Assembly
*2	Front Passenger Side Curtain Shield Squib

HINT:

DTCs other than B1835, B1836, B1837 or B1838 may be output at this time, but they are not related to this check.

NG ▶ REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

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OK ▶ USE SIMULATION METHOD TO CHECK

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000000YTT0JOX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1860/64-B1863/64; Short in Driver Side Knee Airbag Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1860/64**	**Short in Driver Side Knee Airbag Squib Circuit**

DTC	**B1861/64**	**Open in Driver Side Knee Airbag Squib Circuit**

DTC	**B1862/64**	**Short to GND in Driver Side Knee Airbag Squib Circuit**

DTC	**B1863/64**	**Short to B+ in Driver Side Knee Airbag Squib Circuit**

DESCRIPTION

The driver side knee airbag squib circuit consists of the airbag sensor assembly and lower No. 1 instrument panel airbag assembly.

The airbag sensor assembly uses this circuit to deploy the airbag when deployment conditions are met.

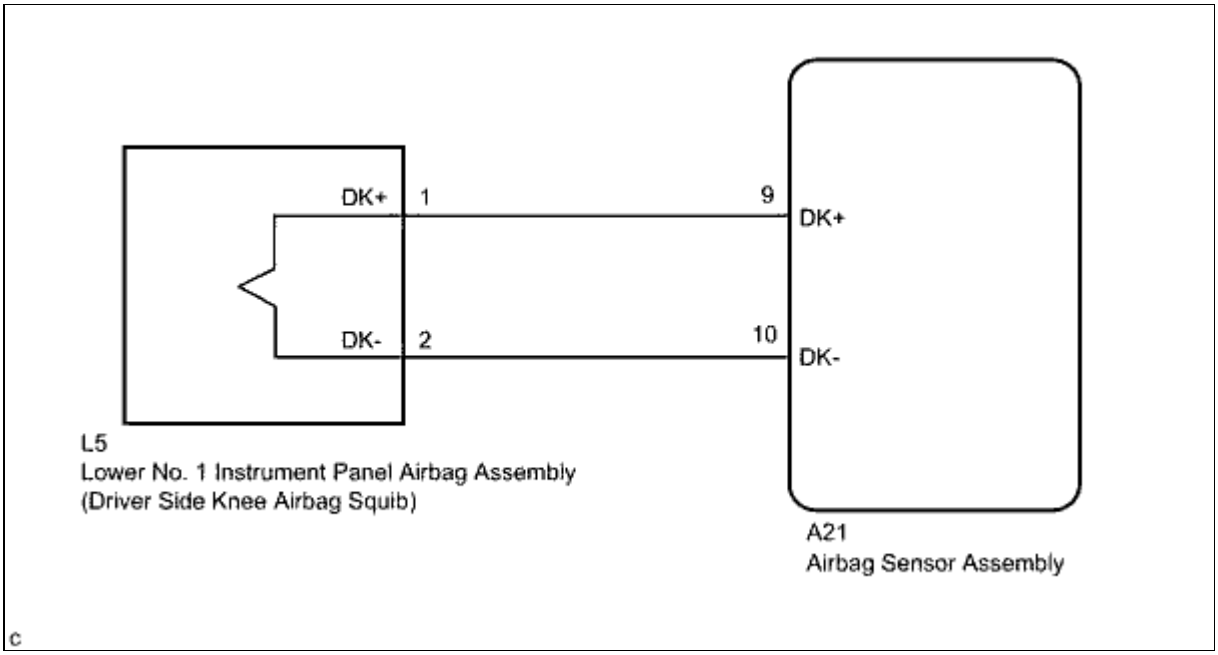
These DTCs are stored when a malfunction is detected in the driver side knee airbag squib circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B1860/64	• The airbag sensor assembly receives a line short circuit signal in the driver side knee airbag squib circuit during primary check. • Driver side knee airbag squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • Lower No. 1 instrument panel airbag assembly (Driver side knee airbag squib) • Airbag sensor assembly
B1861/64	• The airbag sensor assembly receives an open circuit signal in the driver side knee airbag squib circuit. • Driver side knee airbag squib malfunction • Airbag sensor assembly malfunction	
B1862/64	• The airbag sensor assembly receives a short circuit to ground signal in the driver side knee airbag squib circuit. • Driver side knee airbag squib malfunction • Airbag sensor assembly malfunction	
B1863/64	• The airbag sensor assembly receives a short circuit to B+ signal in the driver side knee	

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DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
	airbag squib circuit. • Driver side knee airbag squib malfunction • Airbag sensor assembly malfunction	

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

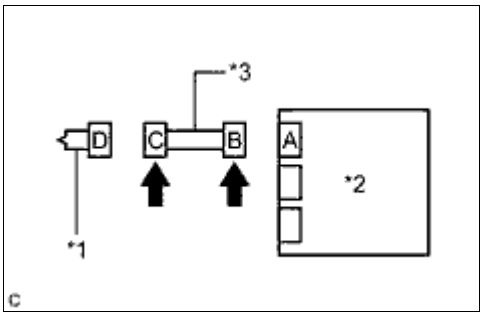
- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK CONNECTORS**

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(a) Turn the ignition switch off.



(b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check that the connectors are properly connected to the lower No. 1 instrument panel airbag assembly and airbag sensor assembly.

OK:

The connectors are properly connected.

HINT:

If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

(d) Disconnect the connectors from the lower No. 1 instrument panel airbag assembly and airbag sensor assembly.

(e) Check that the terminals of the connectors are not damaged.

OK:

The terminals are not deformed or damaged.

(f) Check that the instrument panel wire connector (on the lower No. 1 instrument panel airbag assembly side) is not damaged.

OK:

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

(g) Check that the short spring for the instrument panel wire with the activation prevention mechanism are not deformed or damaged.

OK:

The short spring is not deformed or damaged.

Text in Illustration

*1	Driver Side Knee Airbag Squib
*2	Airbag Sensor Assembly
*3	Instrument Panel Wire

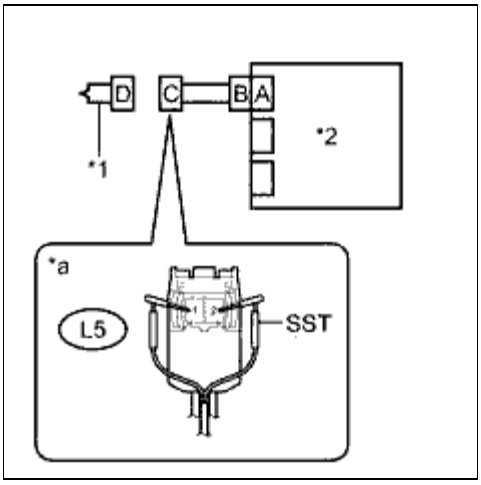
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK

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2.	**CHECK LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (DRIVER SIDE KNEE AIRBAG SQUIB)**

(a) Connect the connector to the airbag sensor assembly.



(b) Connect SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the lower No. 1 instrument panel airbag assembly (driver side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

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

SST: 09843-18061

(c) Connect the cable to the negative (-) battery terminal.

(d) Clear the DTCs stored in memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1860/64, B1861/64, B1862/64 or B1863/64 is not output.

HINT:

Codes other than DTCs B1860/64, B1861/64, B1862/64 and B1863/64 may be output at this time, but they are not related to this check.

(h) Turn the ignition switch off.

(i) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the

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SRS system.

(j) Disconnect SST from connector C.

Text in Illustration

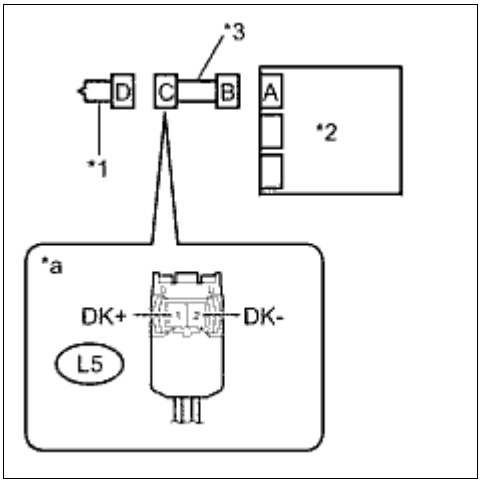
*1	Driver Side Knee Airbag Squib
*2	Airbag Sensor Assembly
*a	Front view of wire harness connector (to Lower No. 1 Instrument Panel Airbag Assembly)

NG ▶ **GO TO STEP 3**

OK ▶ **REPLACE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY**

3.	**CHECK INSTRUMENT PANEL WIRE**

(a) Disconnect the instrument panel wire from the airbag sensor assembly.



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

(1) Connect the cable to the negative (-) battery terminal.

(2) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - Body ground	Ignition switch ON	Below 1 V
L5-2 (DK-) - Body ground	Ignition switch ON	Below 1 V

(4) Turn the ignition switch off.

(5) Disconnect the cable from the negative (-) battery terminal.

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CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check for an open in the circuit.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - L5-2 (DK-)	Always	Below 1 Ω

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - Body ground	Always	1 MΩ or higher
L5-2 (DK-) - Body ground	Always	1 MΩ or higher

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - L5-2 (DK-)	Always	1 MΩ or higher

(3) Restore the released activation prevention mechanism of connector B to the original condition.

Text in Illustration

*1	Driver Side Knee Airbag Squib
*2	Airbag Sensor Assembly
*3	Instrument Panel Wire
*a	Front view of wire harness connector (to Lower No. 1 Instrument Panel Airbag Assembly)

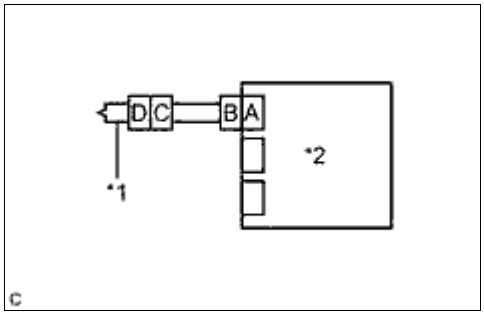
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

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4.	**CHECK DTC**

(a) Connect the connectors to the lower No. 1 instrument panel airbag assembly and airbag sensor assembly.



(b) Connect the cable to the negative (-) battery terminal.

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear the DTCs stored in memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1860/64, B1861/64, B1862/64 or B1863/64 is not output.

HINT:

Codes other than DTCs B1860/64, B1861/64, B1862/64 and B1863/64 may be output at this time, but they are not related to this check.

Text in Illustration

*1	Lower No. 1 Instrument Panel Airbag Assembly
*2	Airbag Sensor Assembly

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000005VE5000X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1865/65-B1868/65; Short in Front Passenger Side Knee Airbag Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1865/65**	**Short in Front Passenger Side Knee Airbag Squib Circuit**

DTC	**B1866/65**	**Open in Front Passenger Side Knee Airbag Squib Circuit**

DTC	**B1867/65**	**Short to GND in Front Passenger Side Knee Airbag Squib Circuit**

DTC	**B1868/65**	**Short to B+ in Front Passenger Side Knee Airbag Squib Circuit**

DESCRIPTION

The passenger side knee airbag squib circuit consists of the airbag sensor assembly and lower No. 2 instrument panel airbag assembly.

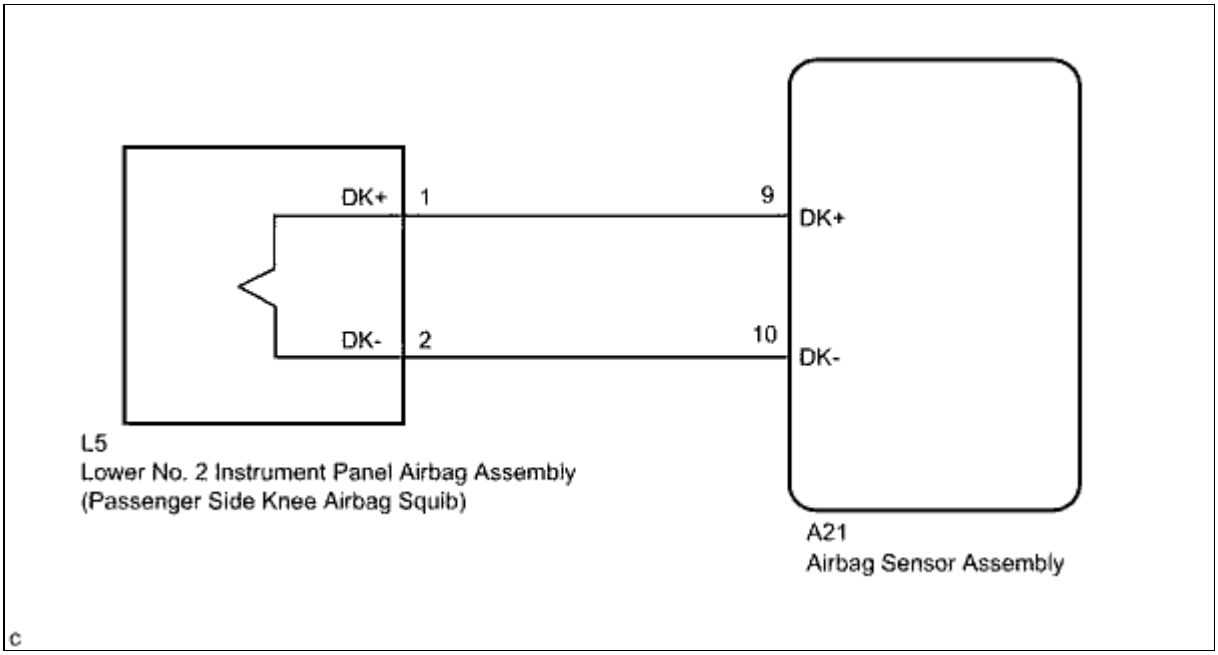
The airbag sensor assembly uses this circuit to deploy the airbag when deployment conditions are met. These DTCs are stored when a malfunction is detected in the passenger side knee airbag squib circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
B1865/65	• The airbag sensor assembly receives a line short circuit signal in the passenger side knee airbag squib circuit during primary check. • Passenger side knee airbag squib malfunction • Airbag sensor assembly malfunction	• Instrument panel wire • lower No. 2 instrument panel airbag assembly (Passenger side knee airbag squib) • Airbag sensor assembly
B1866/65	• The airbag sensor assembly receives an open circuit signal in the passenger side knee airbag squib circuit. • Passenger side knee airbag squib malfunction • Airbag sensor assembly malfunction	
B1867/65	• The airbag sensor assembly receives a short circuit to ground signal in the passenger side knee airbag squib circuit. • Passenger side knee airbag squib malfunction • Airbag sensor assembly malfunction	
B1868/65	• The airbag sensor assembly receives a short circuit to B+ signal in the passenger side knee airbag squib circuit.	

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DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
	• Passenger side knee airbag squib malfunction • Airbag sensor assembly malfunction	

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

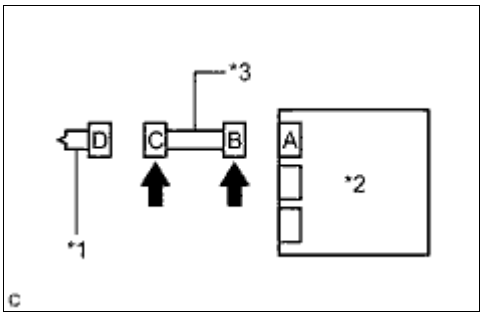
- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK CONNECTORS**

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(a) Turn the ignition switch off.



(b) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check that the connectors are properly connected to the lower No. 2 instrument panel airbag assembly and airbag sensor assembly.

OK:

The connectors are properly connected.

HINT:

If the connectors are not connected securely, reconnect the connectors and proceed to the next inspection.

(d) Disconnect the connectors from the lower No. 2 instrument panel airbag assembly and airbag sensor assembly.

(e) Check that the terminals of the connectors are not damaged.

OK:

The terminals are not deformed or damaged.

(f) Check that the instrument panel wire connector (on the lower No. 2 instrument panel airbag assembly side) is not damaged.

OK:

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

(g) Check that the short spring for the instrument panel wire with the activation prevention mechanism are not deformed or damaged.

OK:

The short spring is not deformed or damaged.

Text in Illustration

*1	Passenger Side Knee Airbag Squib
*2	Airbag Sensor Assembly
*3	Instrument Panel Wire

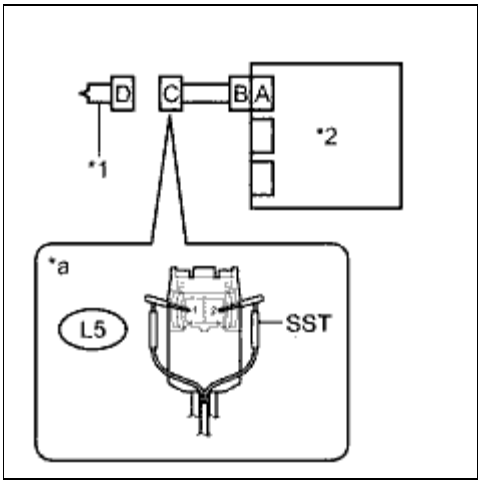
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK

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2.	**CHECK LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (PASSENGER SIDE KNEE AIRBAG SQUIB)**

(a) Connect the connector to the airbag sensor assembly.



(b) Connect SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the lower No. 2 instrument panel airbag assembly (passenger side knee airbag squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

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

SST: 09843-18061

(c) Connect the cable to the negative (-) battery terminal.

(d) Clear the DTCs stored in memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1860/64, B1861/64, B1862/64 or B1863/64 is not output.

HINT:

Codes other than DTCs B1860/64, B1861/64, B1862/64 and B1863/64 may be output at this time, but they are not related to this check.

(h) Turn the ignition switch off.

(i) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the

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SRS system.

(j) Disconnect SST from connector C.

Text in Illustration

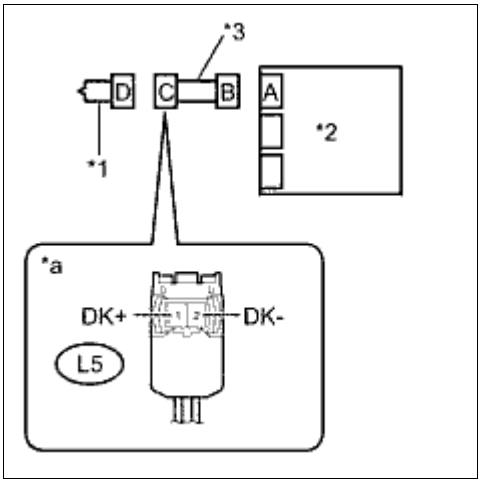
*1	Passenger Side Knee Airbag Squib
*2	Airbag Sensor Assembly
*a	Front view of wire harness connector (to Lower No. 2 Instrument Panel Airbag Assembly)

NG ▶ **GO TO STEP 3**

OK ▶ **REPLACE LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY**

3.	**CHECK INSTRUMENT PANEL WIRE**

(a) Disconnect the instrument panel wire from the airbag sensor assembly.



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

(1) Connect the cable to the negative (-) battery terminal.

(2) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - Body ground	Ignition switch ON	Below 1 V
L5-2 (DK-) - Body ground	Ignition switch ON	Below 1 V

(4) Turn the ignition switch off.

(5) Disconnect the cable from the negative (-) battery terminal.

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CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Check for an open in the circuit.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - L5-2 (DK-)	Always	Below 1 Ω

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

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - Body ground	Always	1 MΩ or higher
L5-2 (DK-) - Body ground	Always	1 MΩ or higher

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
L5-1 (DK+) - L5-2 (DK-)	Always	1 MΩ or higher

(3) Restore the released activation prevention mechanism of connector B to the original condition.

Text in Illustration

*1	Passenger Side Knee Airbag Squib
*2	Airbag Sensor Assembly
*3	Instrument Panel Wire
*a	Front view of wire harness connector (to Lower No. 2 Instrument Panel Airbag Assembly)

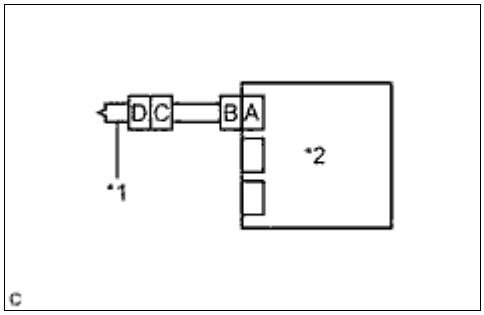
NG ▶ **REPLACE INSTRUMENT PANEL WIRE**

OK ▼

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4.	**CHECK DTC**

(a) Connect the connectors to the lower No. 2 instrument panel airbag assembly and airbag sensor assembly.



(b) Connect the cable to the negative (-) battery terminal.

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear the DTCs stored in memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1860/64, B1861/64, B1862/64 or B1863/64 is not output.

HINT:

Codes other than DTCs B1860/64, B1861/64, B1862/64 and B1863/64 may be output at this time, but they are not related to this check.

Text in Illustration

*1	Passenger Side Knee Airbag Squib
*2	Airbag Sensor Assembly

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000015DA00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1900/73-B1903/73; Short in Front Driver Side Pretensioner Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1900/73**	**Short in Front Driver Side Pretensioner Squib Circuit**

DTC	**B1901/73**	**Open in Front Driver Side Pretensioner Squib Circuit**

DTC	**B1902/73**	**Short to GND in Front Driver Side Pretensioner Squib Circuit**

DTC	**B1903/73**	**Short to B+ in Front Driver Side Pretensioner Squib Circuit**

DESCRIPTION

The front pretensioner squib LH circuit consists of the airbag sensor assembly and the front seat outer belt assembly LH.

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

These DTCs are set when a malfunction is detected in the front pretensioner squib LH circuit.

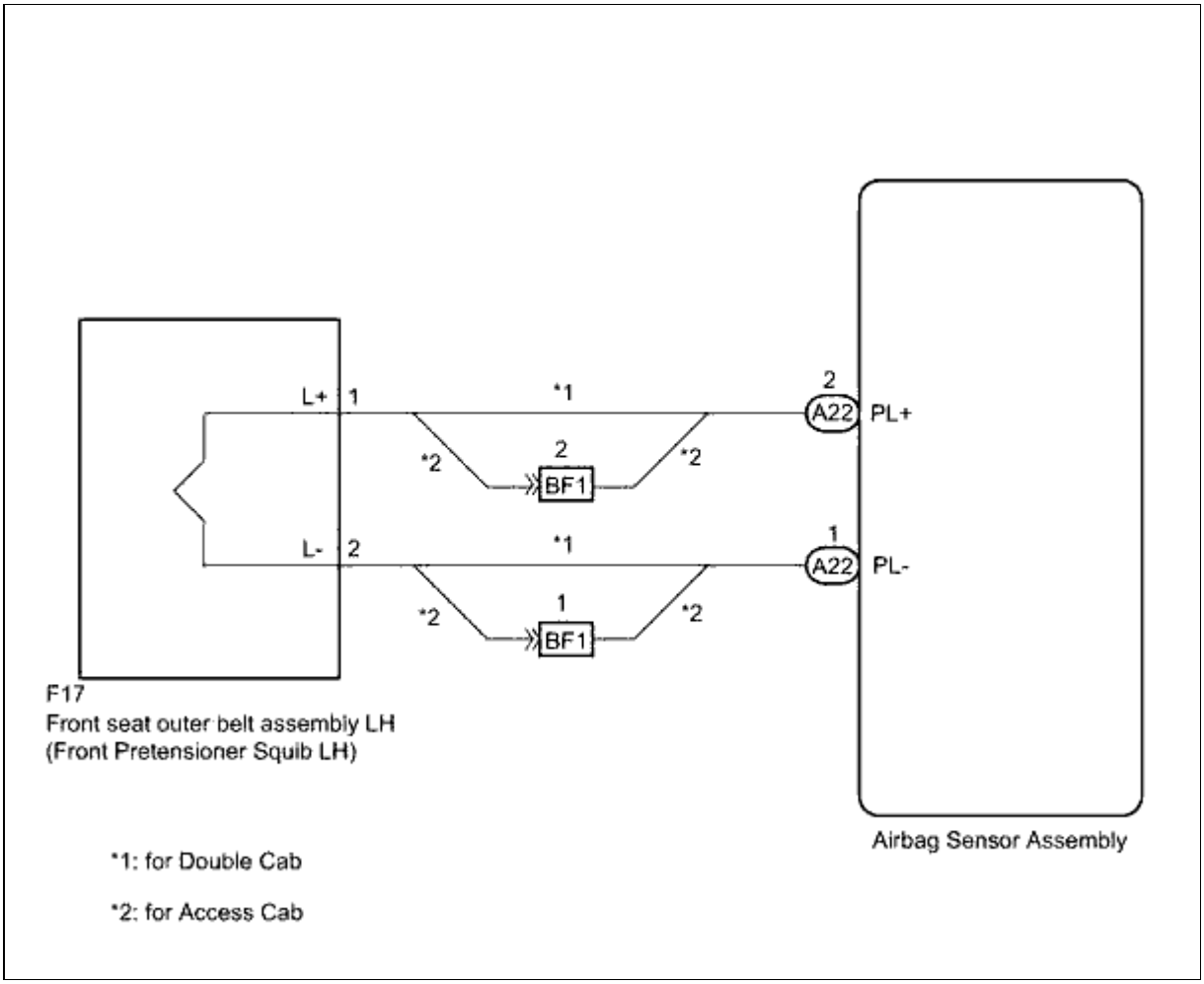
DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1900/73	• The airbag sensor assembly receives a line short circuit signal in the front pretensioner squib LH circuit for 2 seconds • Front pretensioner squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • No. 2 rear door wire*1 • Front seat outer belt assembly LH (Front pretensioner squib LH) • Airbag sensor assembly
B1901/73	• The airbag sensor assembly receives an open circuit signal in the front pretensioner squib LH circuit for 2 seconds • Front pretensioner squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • No. 2 rear door wire*1 • Front seat outer belt assembly LH (Front pretensioner squib LH) • Airbag sensor assembly
B1902/73	• The airbag sensor assembly receives a short circuit to ground signal in the front pretensioner squib LH circuit for 0.5 seconds • Front pretensioner squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • No. 2 rear door wire*1 • Front seat outer belt assembly LH (Front pretensioner squib LH) • Airbag sensor assembly

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DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1903/73	• The airbag sensor assembly receives a short circuit to B+ signal in the front pretensioner squib LH circuit for 0.5 seconds • Front pretensioner squib LH malfunction • Airbag sensor assembly malfunction	• No. 2 floor wire • No. 2 rear door wire*1 • Front seat outer belt assembly LH (Front pretensioner squib LH) • Airbag sensor assembly

*1: for Access Cab

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of

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the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs): Using the Techstream, check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1900 is output.	A
DTC B1901 is output.	B
DTC B1902 is output.	C
DTC B1903 is output.	D

B ▶ **GO TO STEP 9**

C ▶ **GO TO STEP 14**

D ▶ **GO TO STEP 19**

A ▼

2.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly LH side) is not damaged.

OK:

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

Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

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B ▶ **REPLACE NO. 2 FLOOR WIRE**

C ▶ **REPLACE NO. 2 REAR DOOR WIRE**

A

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor LH.

Result

CONDITION	PROCEED TO
Normal (Expect access cab)	A
Normal (Access cab)	B
Abnormal	C

B ▶ **GO TO STEP 6**

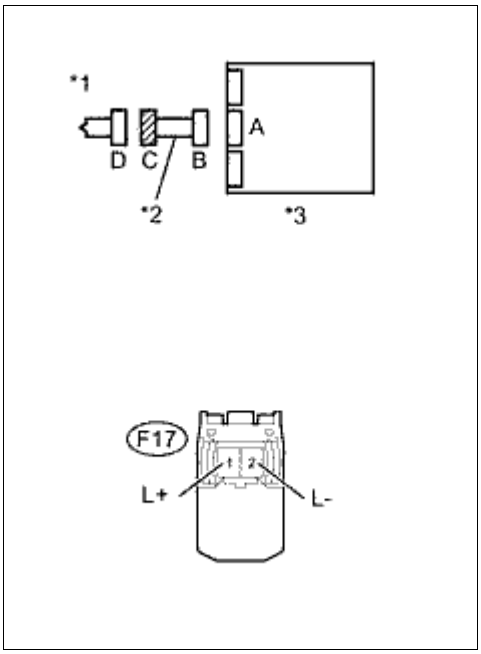
C ▶ **CONNECT CONNECTORS**

A

4.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (FOR SHORT)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly LH.



(b) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - F17-2 (L-)	Always	1 MΩ or higher

Text in Illustration

*1	Front Pretensioner Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

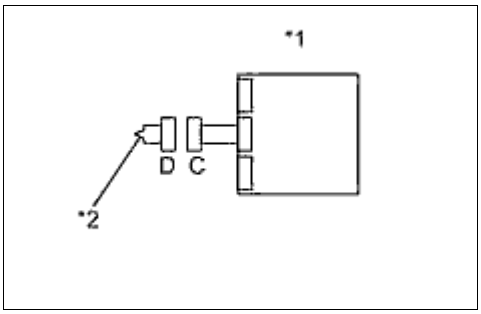
NG ▶ **REPLACE NO. 2 FLOOR WIRE**

OK ▼

5.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the connectors to the airbag sensor assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1900 is not output.

Text in Illustration

*1	Airbag Sensor Assembly
*2	Front Pretensioner Squib LH

HINT:

DTCs other than B1900 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

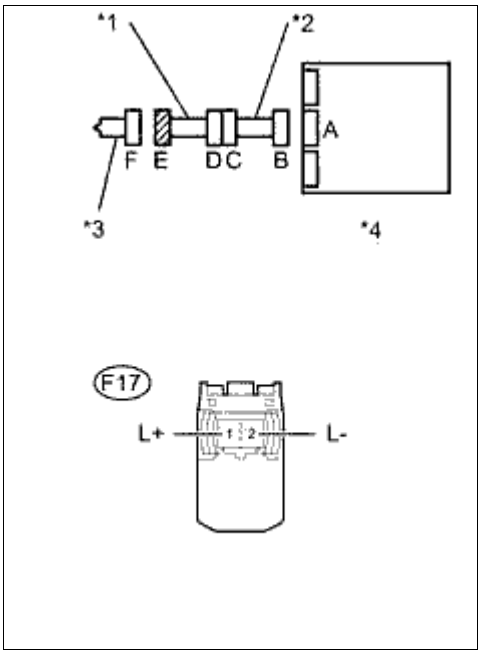
B ▶ **GO TO STEP 25**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

6.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (FOR SHORT)**

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(a) Disconnect the No. 2 floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 2 rear door wire connector from the front seat outer belt assembly LH.

(c) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - F17-2 (L-)	Always	1 MΩ or higher

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

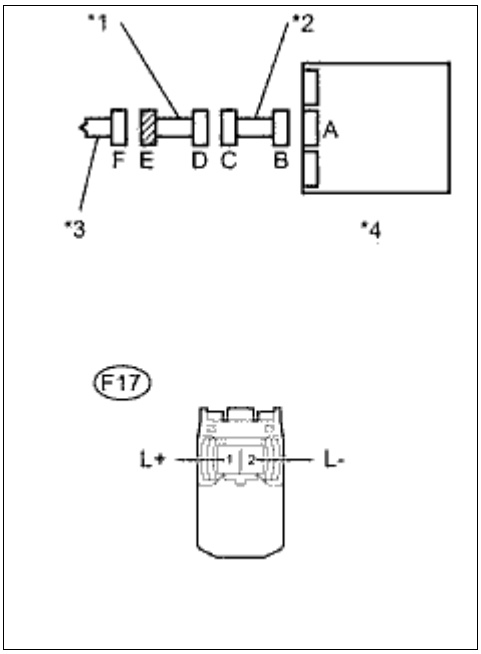
B ▶ **GO TO STEP 8**

A ▼

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7.	**CHECK NO. 2 REAR DOOR WIRE (FOR SHORT)**

(a) Disconnect the No. 2 floor wire connector from the No. 2 rear door wire.



(b) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - F17-2 (L-)	Always	1 MΩ or higher

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

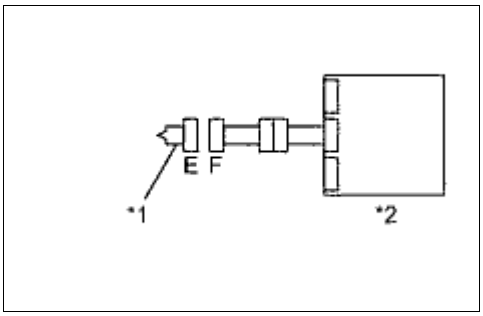
NG ▶ **REPLACE NO. 2 REAR DOOR WIRE**

OK ▶ **REPLACE NO. 2 FLOOR WIRE**

8.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the No. 2 floor wire connectors to the airbag sensor assembly and No. 2 rear door wire.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1900 is not output.

Text in Illustration

*1	Front Pretensioner Squib LH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1900 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 27**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

9.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly LH side) is not damaged.

OK:

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

Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ▶ **REPLACE NO. 2 FLOOR WIRE**

C ▶ **REPLACE NO. 2 REAR DOOR WIRE**

A ▼

10.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor LH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 12**

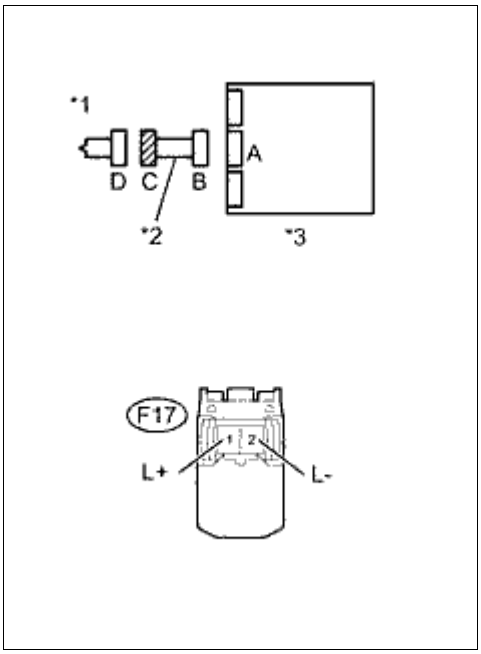
C ▶ **CONNECT CONNECTORS**

A ▼

11.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (FOR OPEN)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly LH.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - F17-2 (L-)	Always	Below 1 Ω

Text in Illustration

*1	Front Pretensioner Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

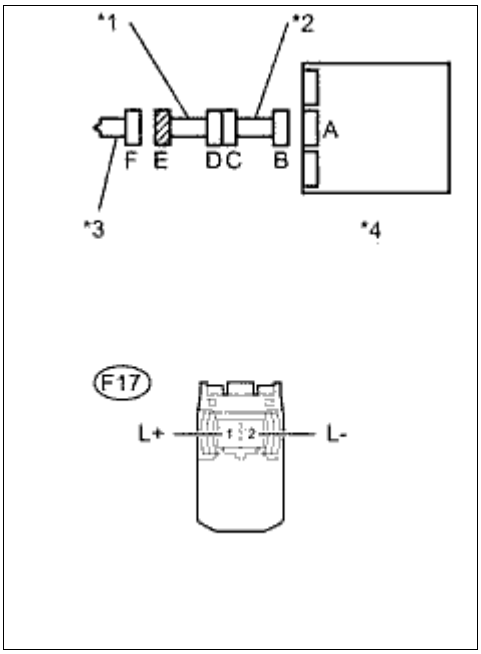
B ▶ **GO TO STEP 24**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

12.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (FOR OPEN)**

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(a) Disconnect the No. 2 floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 2 rear door wire connector from the front seat outer belt assembly LH.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - F17-2 (L-)	Always	Below 1 Ω

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

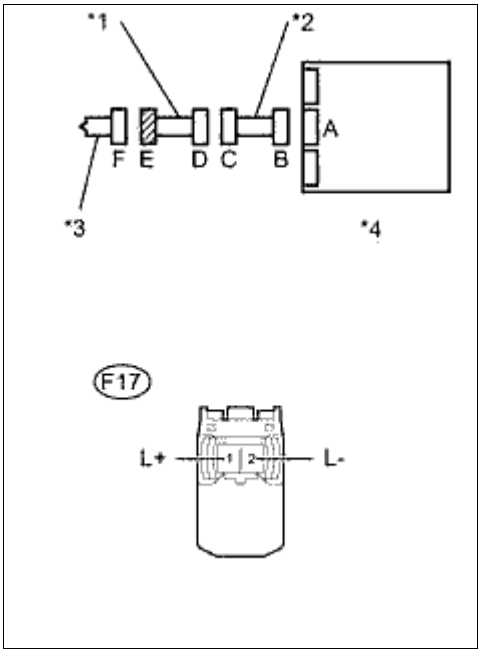
B ▶ **GO TO STEP 26**

A ▼

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13.	**CHECK NO. 2 REAR DOOR WIRE (FOR OPEN)**

(a) Disconnect the No. 2 floor wire connector from the No. 2 rear door wire.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - F17-2 (L-)	Always	1 MΩ or higher

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 2 REAR DOOR WIRE**

OK ▶ **REPLACE NO. 2 FLOOR WIRE**

14.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly LH side) is not damaged.

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OK:

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

Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ▶ **REPLACE NO. 2 FLOOR WIRE**

C ▶ **REPLACE NO. 2 REAR DOOR WIRE**

A ▼

15.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor LH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 17**

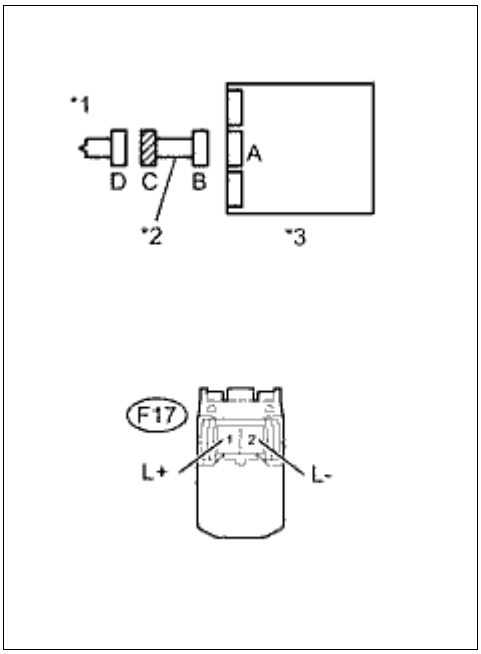
C ▶ **CONNECT CONNECTORS**

A ▼

16.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (TO GROUND)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly LH.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - Body ground	Always	1 MΩ or higher
F17-2 (L-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Front Pretensioner Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

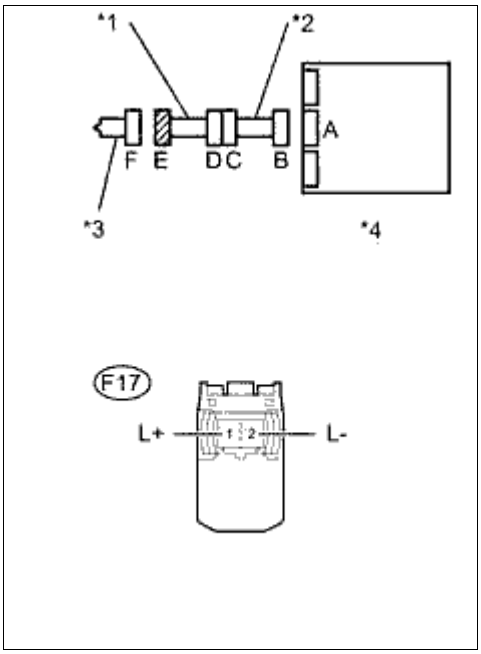
B ▶ **GO TO STEP 24**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

17.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (TO GROUND)**

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(a) Disconnect the No. 2 floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 2 rear door wire connector from the front seat outer belt assembly LH.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - Body ground	Always	1 MΩ or higher
F17-2 (L-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

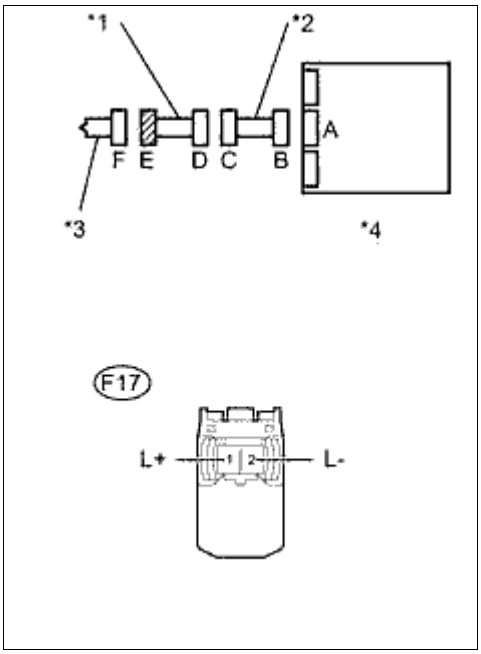
B ▶ **GO TO STEP 26**

A

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18.	CHECK NO. 2 REAR DOOR WIRE (TO GROUND)

(a) Disconnect the No. 2 floor wire connector from the No. 2 rear door wire.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F17-1 (L+) - Body ground	Always	1 MΩ or higher
F17-2 (L-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 2 REAR DOOR WIRE**

OK ▶ **REPLACE NO. 2 FLOOR WIRE**

19.	CHECK CONNECTOR

(a) Turn the ignition switch off.

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

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(c) Check that the connector (on the front seat outer belt assembly LH side) is not damaged.

OK:

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

Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ▶ **REPLACE NO. 2 FLOOR WIRE**

C ▶ **REPLACE NO. 2 REAR DOOR WIRE**

A ▼

20.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor LH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 22**

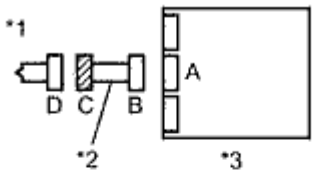
C ▶ **CONNECT CONNECTORS**

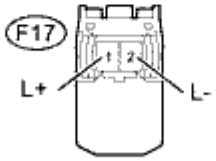
A ▼

21.	**CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (TO B+)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly LH.





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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F17-1 (L+) - Body ground	Ignition switch ON	Below 1 V
F17-2 (L-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Pretensioner Squib LH
*2	No. 2 Floor Wire
*3	Airbag Sensor Assembly

Result

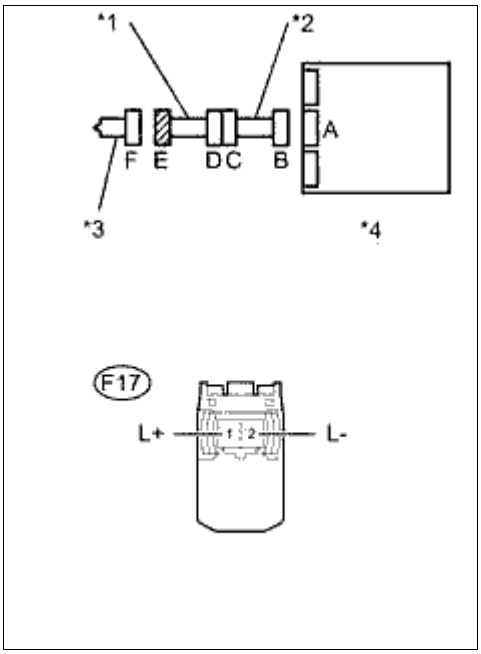
RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 24**

A ▶ **REPLACE NO. 2 FLOOR WIRE**

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22.	CHECK FRONT PRETENSIONER SQUIB LH CIRCUIT (TO B+)



(a) Disconnect the No. 2 floor wire connector from the airbag sensor assembly.

(b) Disconnect the No. 2 rear door wire connector from the front seat outer belt assembly LH.

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

(d) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F17-1 (L+) - Body ground	Ignition switch ON	Below 1 V
F17-2 (L-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH
*4	Airbag Sensor Assembly

Result

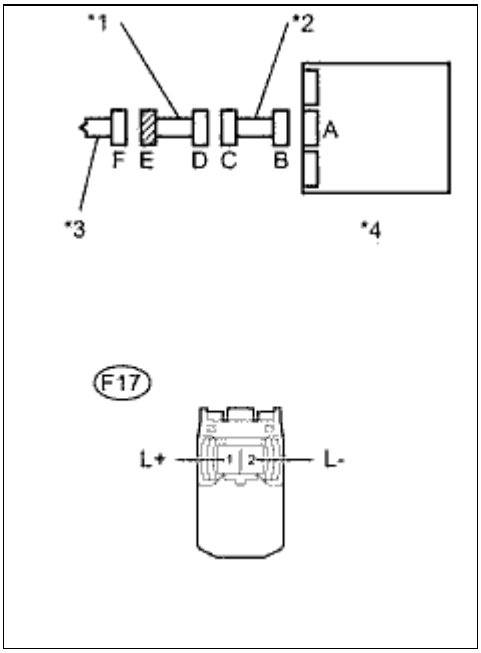
RESULT	PROCEED TO
NG	A
OK	B

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B GO TO STEP 26

A

23.	CHECK NO. 2 REAR DOOR WIRE (TO B+)



(a) Turn the ignition switch off.

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

(c) Disconnect the No. 2 floor wire connector from the No. 2 rear door wire.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F17-1 (L+) - Body ground	Ignition switch ON	Below 1 V
F17-2 (L-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	No. 2 Rear Door Wire
*2	No. 2 Floor Wire
*3	Front Pretensioner Squib LH

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*4	Airbag Sensor Assembly

NG ▶ **REPLACE NO. 2 REAR DOOR WIRE**

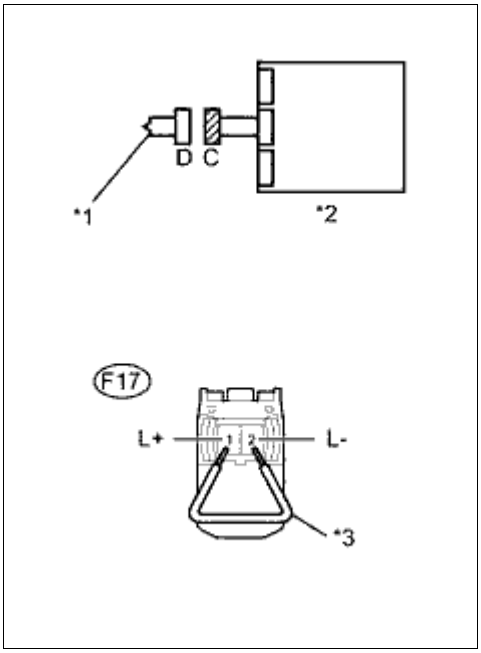
OK ▶ **REPLACE NO. 2 FLOOR WIRE**

24.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 21, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect F17-1 (L+) and F17-2 (L-) of connector C.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

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OK:

DTC B1901, B1902 and B1903 are not output.

Text in Illustration

*1	Front Pretensioner Squib LH
*2	Airbag Sensor Assembly
*3	Service Wire

HINT:

DTCs other than B1901, B1902 or B1903 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▼

25.	**CHECK FRONT SEAT OUTER BELT ASSEMBLY LH**

HINT:

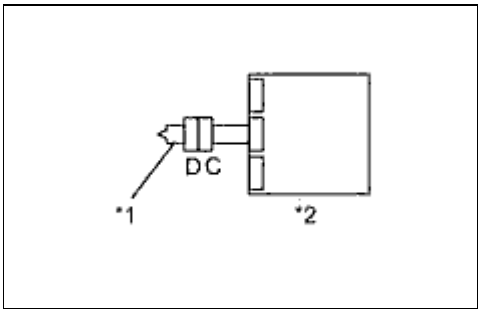
If continuing from step 24, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.

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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the front seat outer belt assembly LH.



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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1900, B1901, B1902 and B1903 are not output.

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Text in Illustration

*1	Front Pretensioner Squib LH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1900, B1901, B1902 or B1903 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH**

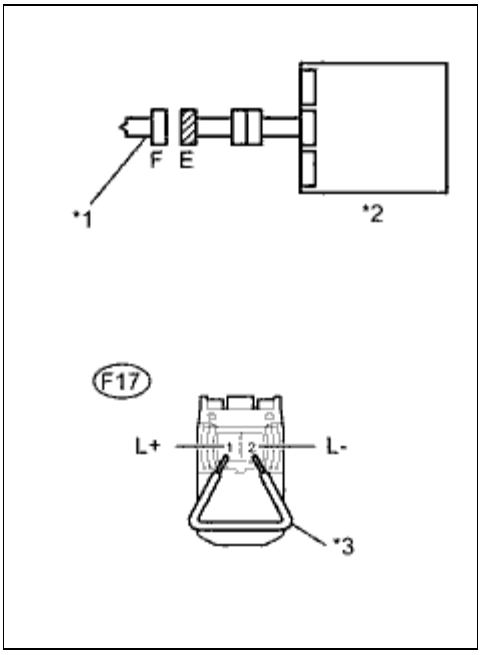
OK ▶ **USE SIMULATION METHOD TO CHECK**

26.	**REPLACE AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 22, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect F17-1 (L+) and F17-2 (L-) of connector C.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

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(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1901, B1902 and B1903 are not output.

Text in Illustration

*1	Front Pretensioner Squib LH
*2	Airbag Sensor Assembly
*3	Service Wire

HINT:

DTCs other than B1901, B1902 or B1903 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

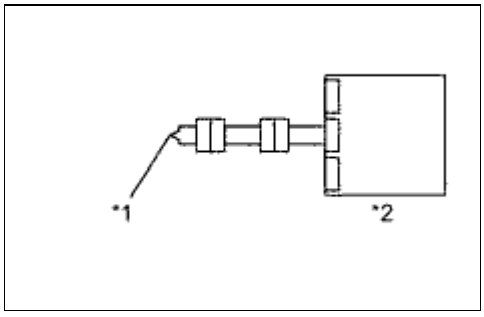
OK ▼

27.	**CHECK FRONT SEAT OUTER BELT ASSEMBLY LH**

HINT:

If continuing from step 26, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the front seat outer belt assembly LH.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

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(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1900, B1901, B1902 and B1903 are not output.

Text in Illustration

*1	Front Pretensioner Squib LH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1900, B1901, B1902 or B1903 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000015DO00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: B1905/74-B1908/74; Short in Front Passenger Side Pretensioner Squib Circuit; 2016 MY Tacoma [08/2015 -]		

DTC	**B1905/74**	**Short in Front Passenger Side Pretensioner Squib Circuit**

DTC	**B1906/74**	**Open in Front Passenger Side Pretensioner Squib Circuit**

DTC	**B1907/74**	**Short to GND in Front Passenger Side Pretensioner Squib Circuit**

DTC	**B1908/74**	**Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit**

DESCRIPTION

The front pretensioner squib RH circuit consists of the airbag sensor assembly and the front seat outer belt assembly RH.

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

These DTCs are set when a malfunction is detected in the front pretensioner squib RH circuit.

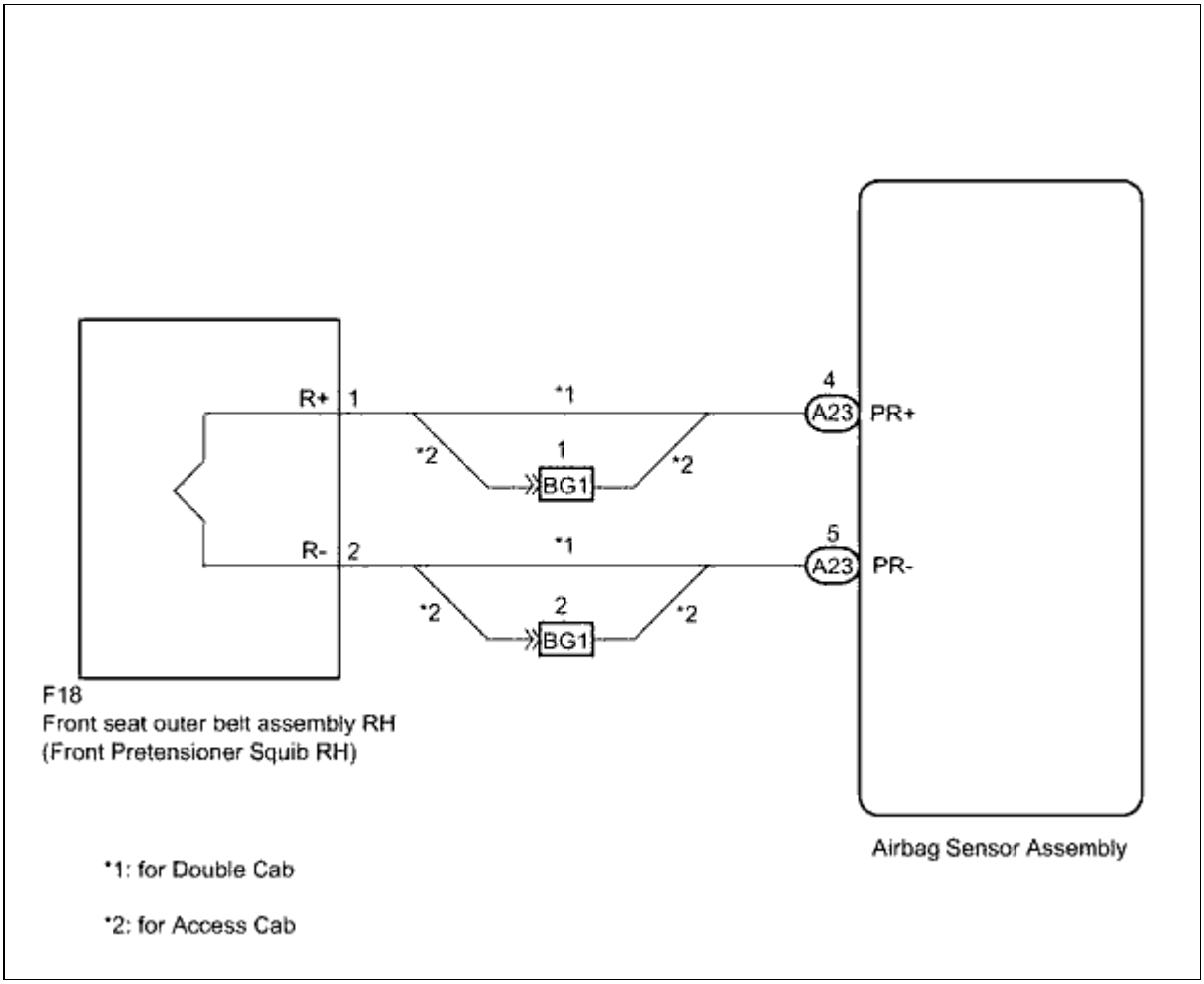
DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1905/74	• The airbag sensor assembly receives a line short circuit signal in the front pretensioner squib RH circuit for 2 seconds • Front pretensioner squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • No. 1 rear door wire*1 • Front seat outer belt assembly RH (Front pretensioner squib RH) • Airbag sensor assembly
B1906/74	• The airbag sensor assembly receives an open circuit signal in the front pretensioner squib RH circuit for 2 seconds • Front pretensioner squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • No. 1 rear door wire*1 • Front seat outer belt assembly RH (Front pretensioner squib RH) • Airbag sensor assembly
B1907/74	• The airbag sensor assembly receives a short circuit to ground signal in the front pretensioner squib RH circuit for 0.5 seconds • Front pretensioner squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • No. 1 rear door wire*1 • Front seat outer belt assembly RH (Front pretensioner squib RH) • Airbag sensor assembly

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DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1908/74	• The airbag sensor assembly receives a short circuit to B+ signal in the front pretensioner squib RH circuit for 0.5 seconds • Front pretensioner squib RH malfunction • Airbag sensor assembly malfunction	• Floor wire • No. 1 rear door wire*1 • Front seat outer belt assembly RH (Front pretensioner squib RH) • Airbag sensor assembly

*1: for Access Cab

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work INFO .

HINT:

- Perform the simulation method by selecting check mode (Signal Check) using the Techstream INFO .
- After selecting check mode (Signal Check), perform the simulation method by wiggling each connector of

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the airbag system or driving the vehicle on a city road or rough road INFO .

PROCEDURE

1.	**CHECK DTC**

(a) Proceed to the appropriate step according to DTC readings.

(1) If using the Techstream (read the 5-digit DTCs): Using the Techstream, check for DTCs INFO .

Result

RESULT	PROCEED TO
DTC B1905 is output.	A
DTC B1906 is output.	B
DTC B1907 is output.	C
DTC B1908 is output.	D

B ▶ **GO TO STEP 9**

C ▶ **GO TO STEP 14**

D ▶ **GO TO STEP 19**

A ▼

2.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly RH side) is not damaged.

OK:

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

Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

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B ▶ **REPLACE FLOOR WIRE**

C ▶ **REPLACE NO. 1 REAR DOOR WIRE**

A

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor RH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 6**

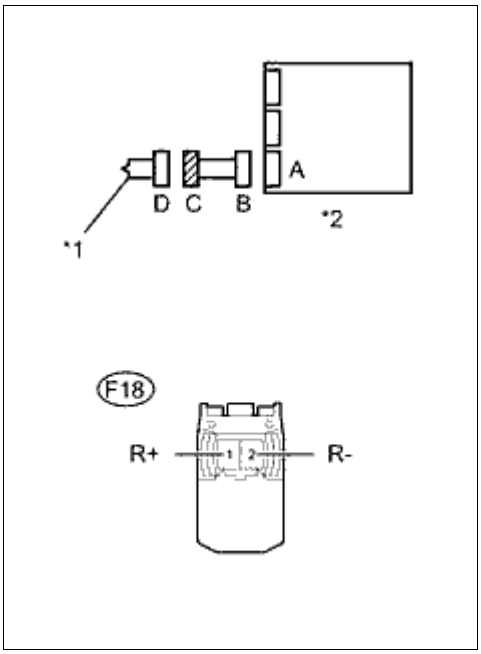
C ▶ **CONNECT CONNECTORS**

A

4.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (FOR SHORT)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly RH.



(b) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - F18-2 (R-)	Always	1 MΩ or higher

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

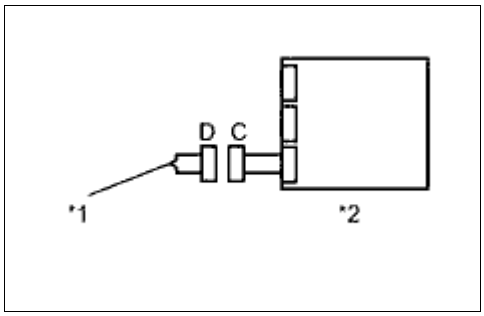
NG ▶ **REPLACE FLOOR WIRE**

OK ▼

5.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the connectors to the airbag sensor assembly.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1905 is not output.

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1905 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

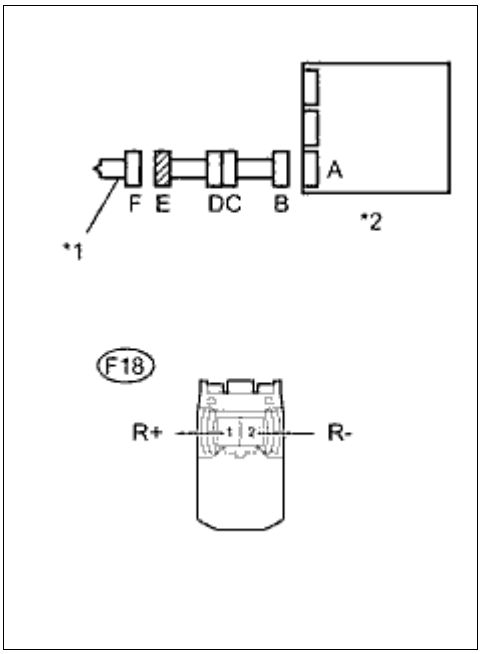
B ▶ **GO TO STEP 25**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

6.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (FOR SHORT)**

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(a) Disconnect the floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 1 rear door wire connector from the front seat outer belt assembly RH.

(c) Release the activation prevention mechanism built into connector B INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - F18-2 (R-)	Always	1 MΩ or higher

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

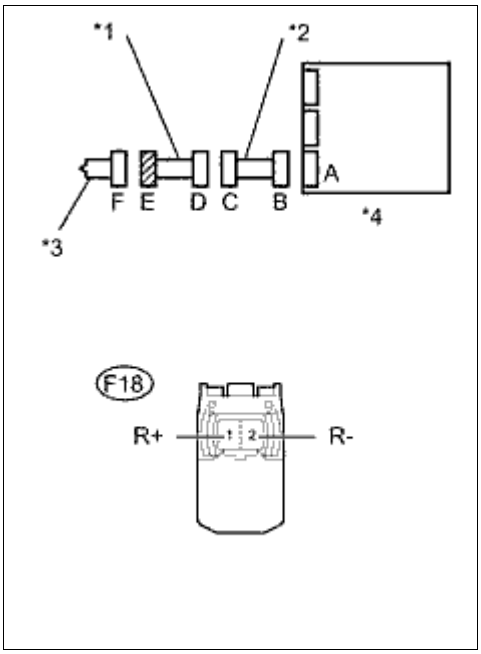
B ▶ **GO TO STEP 8**

A ▼

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7.	**CHECK NO. 1 REAR DOOR WIRE (FOR SHORT)**

(a) Disconnect the floor wire connector from the No. 1 rear door wire.



(b) Release the activation prevention mechanism built into connector D INFO .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - F18-2 (R-)	Always	1 MΩ or higher

Text in Illustration

*1	No. 1 Rear Door Wire
*2	Floor Wire
*3	Front Pretensioner Squib RH
*4	Airbag Sensor Assembly

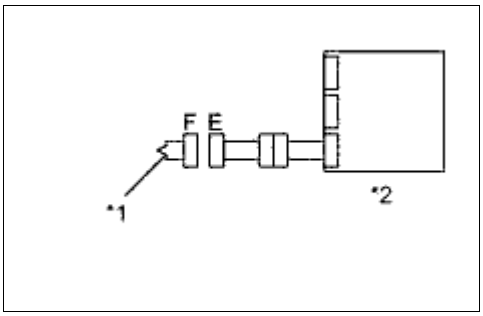
NG ▶ **REPAIR OR REPLACE NO. 1 REAR DOOR WIRE**

OK ▶ **REPLACE FLOOR WIRE**

8.	**CHECK AIRBAG SENSOR ASSEMBLY**

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(a) Connect the floor wire connectors to the airbag sensor assembly and No. 1 rear door wire.



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

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

(d) Clear any DTCs stored in the memory INFO .

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Check for DTCs INFO .

OK:

DTC B1905 is not output.

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1905 may be output at this time, but they are not related to this check.

Result

RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 27**

A ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

9.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly RH side) is not damaged.

OK:

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

Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ▶ **REPLACE FLOOR WIRE**

C ▶ **REPLACE NO. 1 REAR DOOR WIRE**

A ▼

10.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor RH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 12**

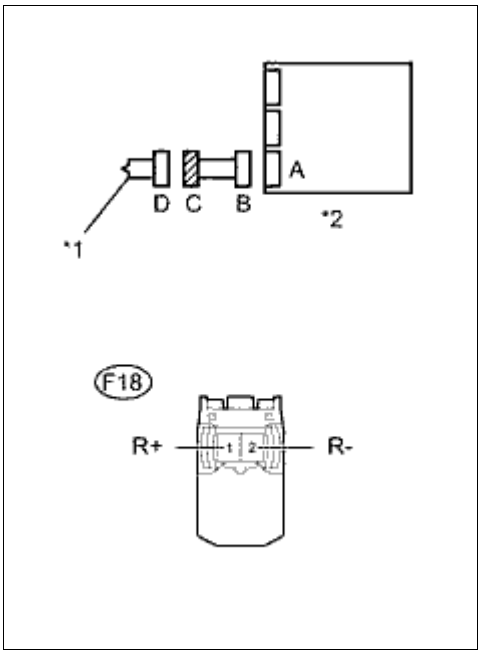
C ▶ **CONNECT CONNECTORS**

A ▼

11.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (FOR OPEN)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly RH.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - F18-2 (R-)	Always	Below 1 Ω

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

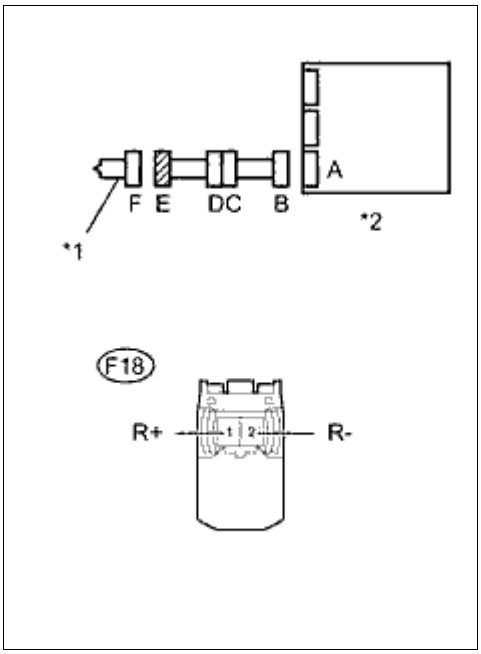
B ▶ **GO TO STEP 24**

A ▶ **REPLACE FLOOR WIRE**

12.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (FOR OPEN)**

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(a) Disconnect the floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 1 rear door wire connector from the front seat outer belt assembly RH.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - F18-2 (R-)	Always	Below 1 Ω

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

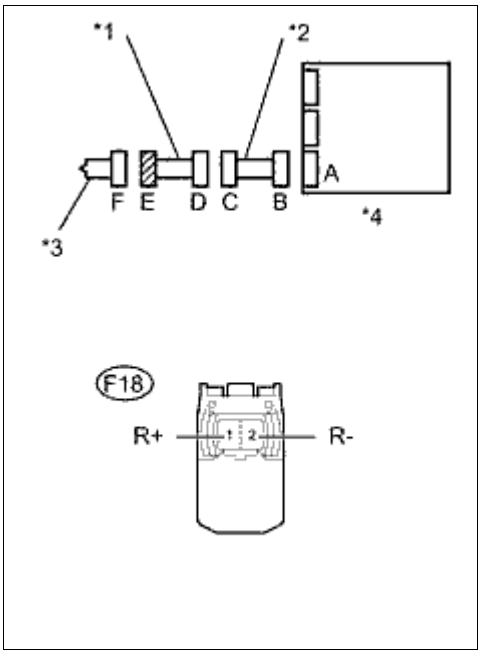
B ▶ **GO TO STEP 26**

A ▼

13.	**CHECK NO. 1 REAR DOOR WIRE (FOR OPEN)**

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(a) Disconnect the floor wire connector from the No. 1 rear door wire.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - F18-2 (R-)	Always	1 MΩ or higher

Text in Illustration

*1	No. 1 Rear Door Wire
*2	Floor Wire
*3	Front Pretensioner Squib RH
*4	Airbag Sensor Assembly

NG ▶ **REPAIR OR REPLACE NO. 1 REAR DOOR WIRE**

OK ▶ **REPLACE FLOOR WIRE**

14.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly RH side) is not damaged.

OK:

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

Result

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CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ▶ **REPLACE FLOOR WIRE**

C ▶ **REPLACE NO. 1 REAR DOOR WIRE**

A ▼

15.	CHECK CONNECTION OF CONNECTORS

(a) Check that the connectors are properly connected to the enter airbag sensor assembly and the front airbag sensor RH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 17**

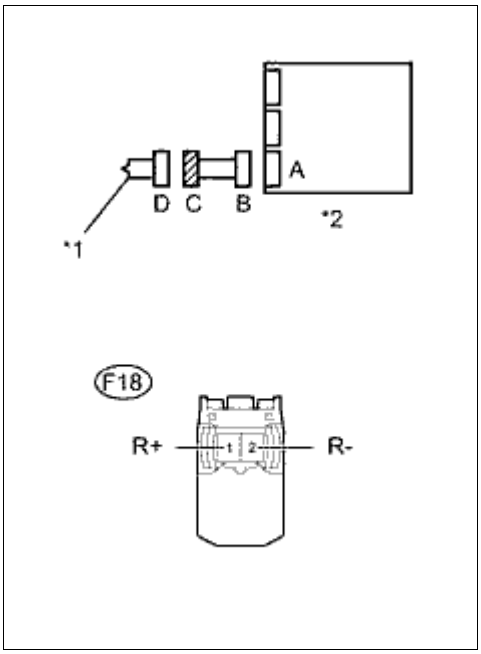
C ▶ **CONNECT CONNECTORS**

A ▼

16.	CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (TO GROUND)

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly RH.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - Body ground	Always	1 MΩ or higher
F18-2 (R-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

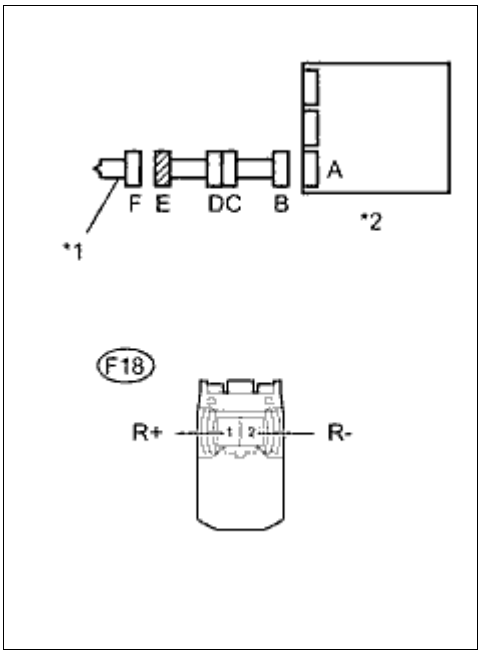
B ▶ **GO TO STEP 24**

A ▶ **REPLACE FLOOR WIRE**

17.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (TO GROUND)**

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(a) Disconnect the floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 1 rear door wire connector from the front seat outer belt assembly RH.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - Body ground	Always	1 MΩ or higher
F18-2 (R-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

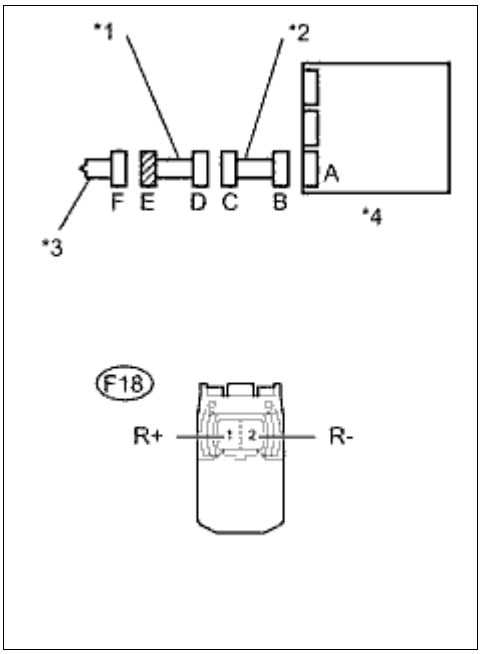
B ▶ **GO TO STEP 26**

A ▼

18.	**CHECK NO. 1 REAR DOOR WIRE (TO GROUND)**

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(a) Disconnect the floor wire connector from the No. 1 rear door wire.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
F18-1 (R+) - Body ground	Always	1 MΩ or higher
F18-2 (R-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	No. 1 Rear Door Wire
*2	Floor Wire
*3	Front Pretensioner Squib RH
*4	Airbag Sensor Assembly

NG ▶ **REPAIR OR REPLACE NO. 1 REAR DOOR WIRE**

OK ▶ **REPLACE FLOOR WIRE**

19.	**CHECK CONNECTOR**

(a) Turn the ignition switch off.

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

(c) Check that the connector (on the front seat outer belt assembly RH side) is not damaged.

OK:

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

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Result

CONDITION	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ▶ **REPLACE FLOOR WIRE**

C ▶ **REPLACE NO. 1 REAR DOOR WIRE**

A ▼

20.	**CHECK CONNECTION OF CONNECTORS**

(a) Check that the connectors are properly connected to the airbag sensor assembly and the front airbag sensor RH.

Result

CONDITION	PROCEED TO
Normal (for Double Cab)	A
Normal (for Access Cab)	B
Abnormal	C

B ▶ **GO TO STEP 22**

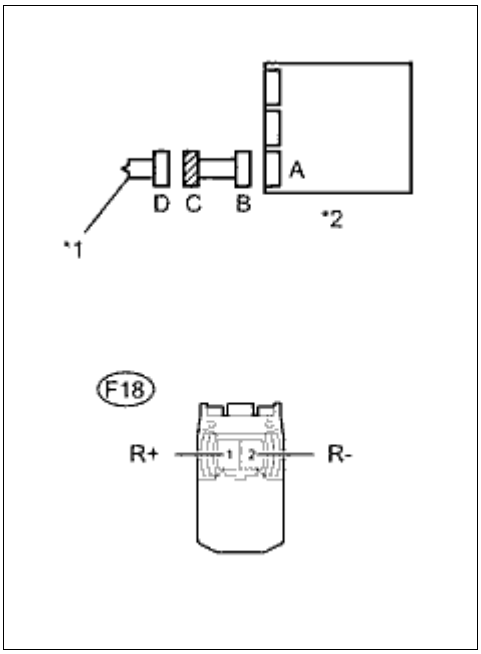
C ▶ **CONNECT CONNECTORS**

A ▼

21.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (TO B+)**

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(a) Disconnect the floor wire connectors from the airbag sensor assembly and front seat outer belt assembly RH.



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

(c) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F18-1 (R+) - Body ground	Ignition switch ON	Below 1 V
F18-2 (R-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

RESULT	PROCEED TO
NG	A
OK	B

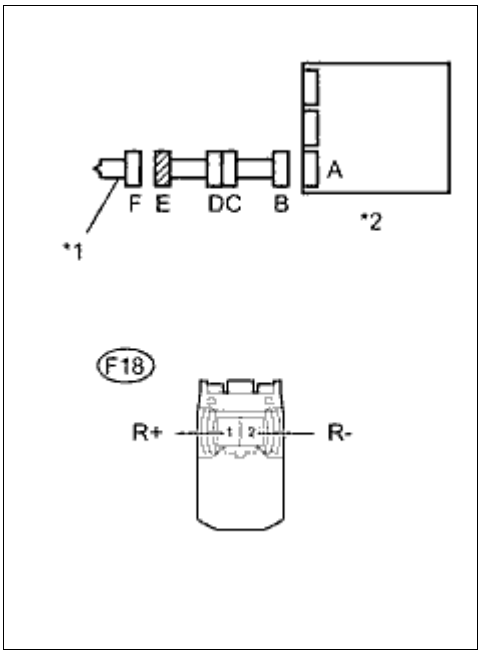
B ▶ **GO TO STEP 24**

A ▶ **REPLACE FLOOR WIRE**

22.	**CHECK FRONT PRETENSIONER SQUIB RH CIRCUIT (TO B+)**

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(a) Disconnect the floor wire connector from the airbag sensor assembly.



(b) Disconnect the No. 1 rear door wire connector from the front seat outer belt assembly RH.

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

(d) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F18-1 (R+) - Body ground	Ignition switch ON	Below 1 V
F18-2 (R-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

Result

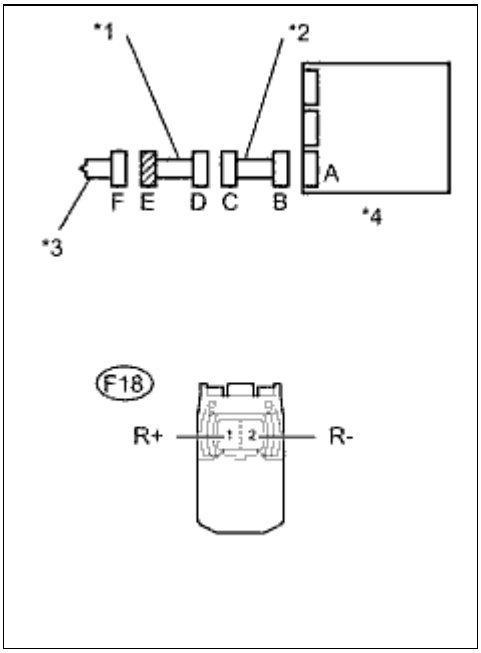
RESULT	PROCEED TO
NG	A
OK	B

B ▶ **GO TO STEP 26**

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A

23.	CHECK NO. 1 REAR DOOR WIRE (TO B+)



(a) Turn the ignition switch off.

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

(c) Disconnect the floor wire connector from the No. 1 rear door wire.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
F18-1 (R+) - Body ground	Ignition switch ON	Below 1 V
F18-2 (R-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	No. 1 Rear Door Wire
*2	Floor Wire
*3	Front Pretensioner Squib RH
*4	Airbag Sensor Assembly

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NG ▶ **REPAIR OR REPLACE NO. 1 REAR DOOR WIRE**

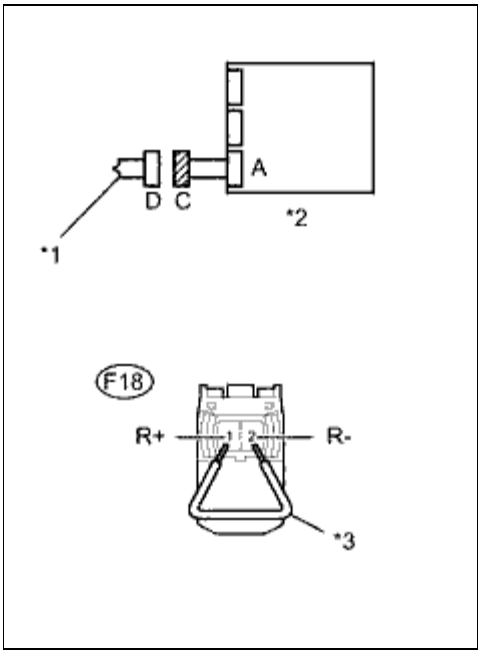
OK ▶ **REPLACE FLOOR WIRE**

24.	CHECK AIRBAG SENSOR ASSEMBLY

HINT:

If continuing from step 21, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect F18-1 (R+) and F18-2 (R-) of connector C.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1906, B1907 and B1908 are not output.

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Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly
*3	Service Wire

HINT:

DTCs other than B1906, B1907 or B1908 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

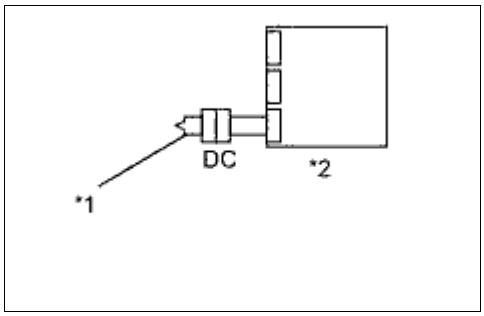
OK ▼

25.	**CHECK FRONT SEAT OUTER BELT ASSEMBLY RH**

HINT:

If continuing from step 24, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the front seat outer belt assembly RH.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1905, B1906, B1907 and B1908 are not output.

Text in Illustration

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*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1905, B1906, B1907 or B1908 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

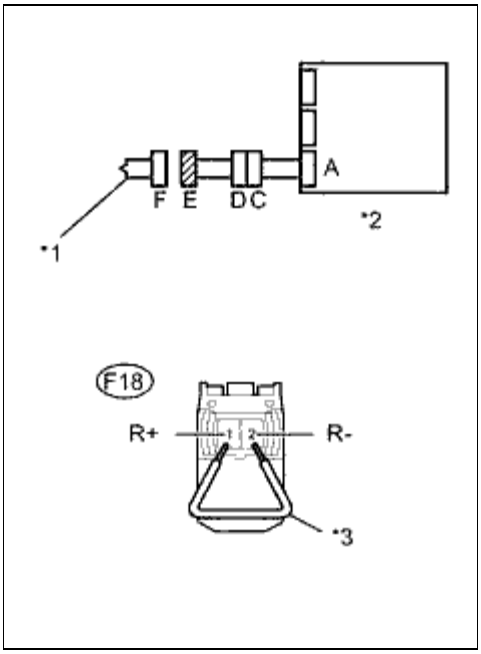
OK ▶ **USE SIMULATION METHOD TO CHECK**

26.	**CHECK AIRBAG SENSOR ASSEMBLY**

HINT:

If continuing from step 22, begin from (a). If continuing from any other step, begin from (c).

(a) Turn the ignition switch off.



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

(c) Connect the connectors to the airbag sensor assembly.

(d) Using a service wire, connect F18-1 (R+) and F18-2 (R-) of connector E.

NOTICE:

- Twist the end of the service wire in order to insert it into the connector.
- Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

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(h) Turn the ignition switch off.

(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1906, B1907 and B1908 are not output.

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly
*3	Service Wire

HINT:

DTCs other than B1906, B1907 or B1908 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

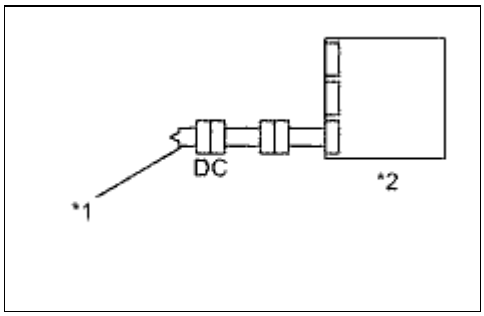
OK ▼

27.	**CHECK FRONT SEAT OUTER BELT ASSEMBLY RH**

HINT:

If continuing from step 26, begin from (c). If continuing from any other step, being from (a).

(a) Turn the ignition switch off.



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

(c) Disconnect the service wire from connector C.

(d) Connect the connector to the front seat outer belt assembly RH.

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

(f) Turn the ignition switch to ON, and wait for at least 60 seconds.

(g) Clear any DTCs stored in the memory INFO .

(h) Turn the ignition switch off.

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(i) Turn the ignition switch to ON, and wait for at least 60 seconds.

(j) Check for DTCs INFO .

OK:

DTC B1900, B1901, B1902 and B1903 are not output.

Text in Illustration

*1	Front Pretensioner Squib RH
*2	Airbag Sensor Assembly

HINT:

DTCs other than B1900, B1901, B1902 or B1903 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

OK ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000000XFF0HFX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: CHECK MODE PROCEDURE; 2016 MY Tacoma [08/2015 -]		

CHECK MODE PROCEDURE

1. Check Mode (Signal Check): DTC CHECK

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to ON and turn the Techstream on.

(c) Select the Signal Check on the Techstream, and proceed checking with the Techstream.

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Last Modified: 11-13-2015	6.6 U	**Doc ID:** RM000000XFH0H2X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: DATA LIST / ACTIVE TEST; 2016 MY Tacoma [08/2015 -]		

DATA LIST / ACTIVE TEST

HINT:

By accessing the Data List displayed on the Techstream, you can perform such functions as reading the values of switches and sensors without removing any parts. Reading the Data List is the first step of troubleshooting and is one method to shorten labor time.

1. DATA LIST FOR AIRBAG SENSOR ASSEMBLY

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to ON and turn the Techstream on.

(c) Follow the display on the Techstream screen to enter the "Data List".

(d) Check the condition by referring to the table below.

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Driver Seat Position	Seat position (Driver side)/ Forward: Seat position is forward Bkward: Seat position is rearward Fail: A failure is detected	Forward/Bkward	-
Passenger Classification	Passenger classification/ NG: Data is not determined OFF: Vacant Child: Child is seated or vacant AF05: Adult is seated AM50: Adult is seated Fail: Failure is detected	OFF/Child /AF05/AM50	-
Left side Buckle SW	Buckle switch (Driver side)/ Unset: The seat belt is not fastened Set: The seat belt is fastened NG: Data is not determined	Unset/Set	-
Right side Buckle SW	Buckle switch (Right side)/ Unset: The seat belt is not fastened Set: The seat belt is fastened NG: Data is not determined	Unset/Set	-
Display Type Information	Display type identification information/ LR: The display is indicated by LH/RH DP: The display is indicated by Driver/Passenger	DP	-
Number of Past DTC	Min.: 0, Max.: 255	0	-

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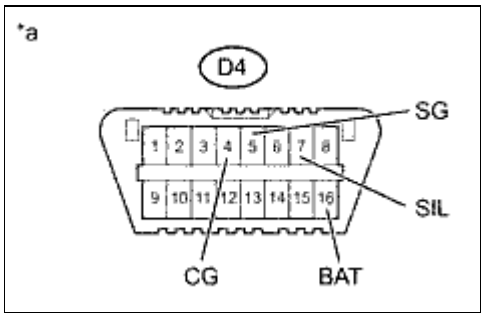
Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000000XFD0NNX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: DIAGNOSIS SYSTEM; 2016 MY Tacoma [08/2015 -]		

DIAGNOSIS SYSTEM

1. CHECK DLC3

(a) The vehicle ECUs use ISO 15765-4 communication protocol. The terminal arrangement of the DLC3 complies with ISO 15031-3 and matches the ISO 15765-4 format.

TERMINALS NO. (SYMBOLS)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
D4-7 (SIL) - D4-5 (SG)	Bus + line	During transmission	Pulse generation
D4-4 (CG) - Body ground	Chassis ground	Always	Below 1 Ω
D4-16 (BAT) - Body ground	Battery positive	Always	11 to 14 V



Text in Illustration

*a	DLC3

HINT:

If the display shows a communication error message when connecting the cable of the Techstream to the DLC3, turning the ignition switch to ON and operating the Techstream, there is a problem on the vehicle side or tool side.

- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself. Consult the Service Department listed in the tool's instruction manual.

2. SYMPTOM SIMULATION

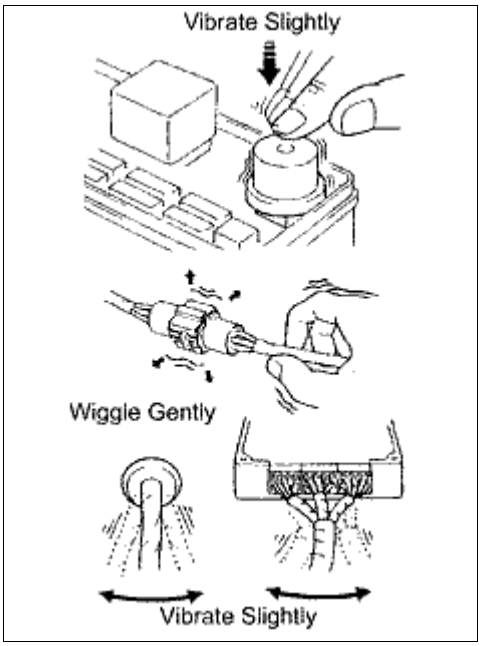
HINT:

The most difficult case in troubleshooting is when no symptoms occur. In such cases, a thorough customer problem analysis must be carried out. Then the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be simulated. No matter how experienced or skilled a technician may be, if the technician proceeds to troubleshoot without confirming the problem symptoms, the technician will likely overlook something important and make a wrong guess at some points in the repair operation.

This leads to a standstill in troubleshooting.

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(a) Vibration method: When vibration seems to be the major cause.



HINT:

Perform the simulation method only during the primary check period (for approximately 6 seconds after the ignition switch is turned to ON).

(1) Slightly vibrate the part of the sensor considered to be the problem cause with your fingers and check whether the malfunction occurs.

HINT:

Shaking the relays too strongly may result in open relays.

(2) Slightly shake the connector vertically and horizontally.

(3) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.

3. FUNCTION OF SRS WARNING LIGHT

(a) Primary check.

(1) Turn the ignition switch off. Wait for at least 2 seconds and then turn the ignition switch to ON. The SRS warning light comes on for approximately 6 seconds and the diagnosis of the airbag system (including the seat belt pretensioners) is performed.

HINT:

If trouble is detected during the primary check, the SRS warning light remains on even after the primary check period (for approximately 6 seconds) has elapsed.

(b) Constant check.

(1) After the primary check, the airbag sensor assembly constantly monitors the airbag system for trouble.

HINT:

If trouble is detected during the constant check, the airbag sensor assembly functions as follows:

- The SRS warning light comes on.
- The SRS warning light goes off, and then comes on. This blinking pattern indicates a source voltage drop. The SRS warning light goes off 10 seconds after the source voltage returns to normal.

(c) Review.

(1) When the airbag system is normal:

The SRS warning light comes on only during the primary check period (for approximately 6 seconds after the ignition switch is turned to ON).

(2) When the airbag system has trouble:

- The SRS warning light remains on even after the primary check period has elapsed.
- The SRS warning light goes off after the primary check, but comes on again during the constant check.
- The SRS warning light does not come on when turning the ignition switch from off to ON.

HINT:

The airbag sensor assembly keeps the SRS warning light on if the airbag has been deployed.

4. SRS WARNING LIGHT CHECK

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(a) Turn the ignition switch to ON, and check that the SRS warning light comes on for approximately 6 seconds (primary check).

(b) Check that the SRS warning light goes off approximately 6 seconds after the ignition switch is turned ON (constant check).

HINT:

When any of the following symptoms occur, refer to the "Problem Symptoms Table" INFO .

- The SRS warning light comes on occasionally, after the primary check period has elapsed.
- The SRS warning light comes on, but a DTC is not output.
- The ignition switch is turned from off to ON, but the SRS warning light does not come on.

5. PASSENGER AIRBAG ON/OFF INDICATOR CHECK

(a) Turn the ignition switch to ON.



(b) Check that the passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then turns off for approximately 2 seconds.

HINT:

Refer to the table in step 4 regarding the passenger airbag ON/OFF indicator when the ignition switch is turned to ON and approximately 6 seconds have passed.

6. RELEASE METHOD OF ACTIVATION PREVENTION MECHANISM

(a) The activation prevention mechanism is built into the connector for the squib circuit of the SRS. As explained in the troubleshooting section, insert a piece of paper that is the same thickness as the male terminal between the terminal and the short spring to release it (refer to the illustrations on the next 3 pages).

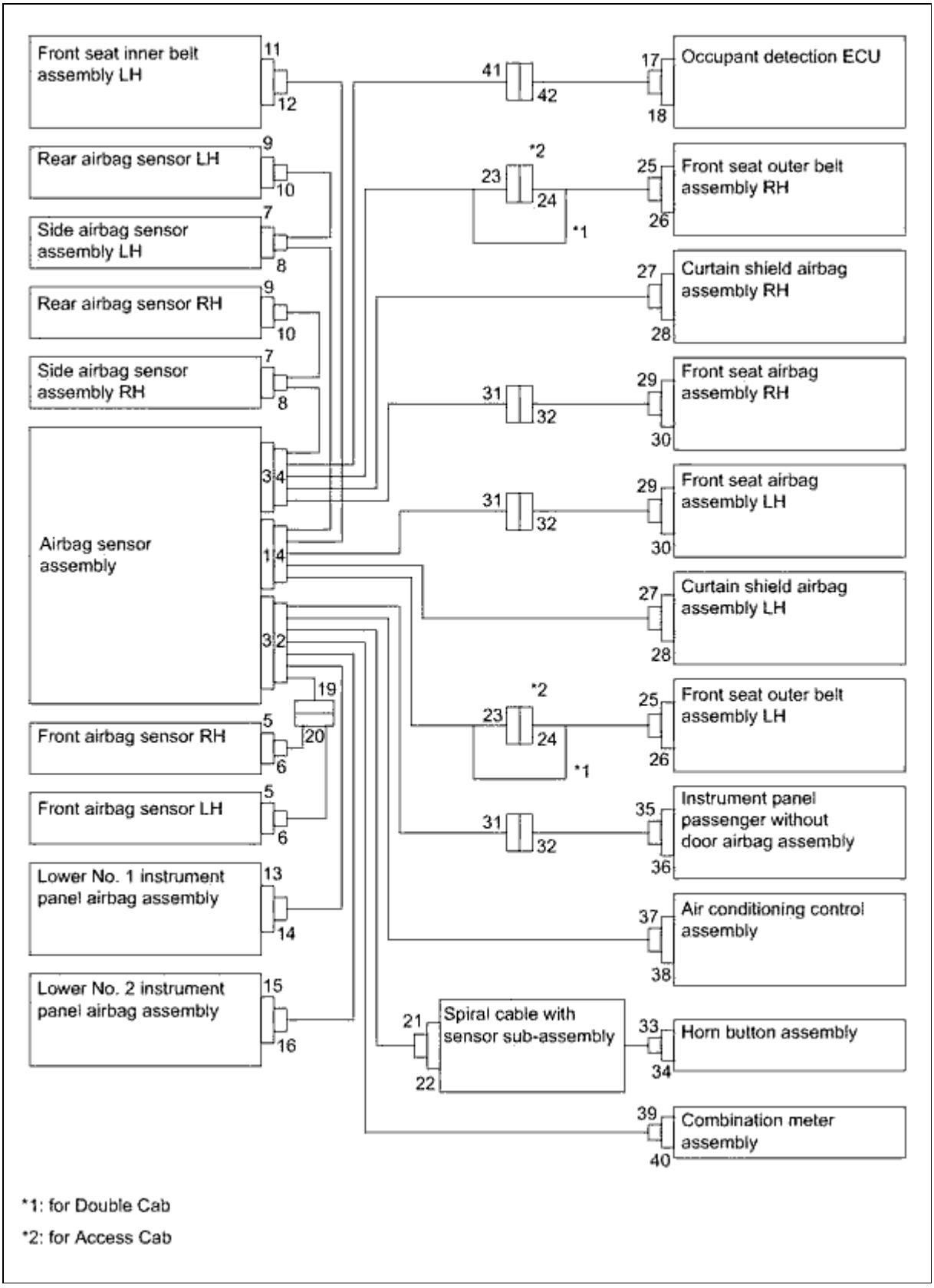
CAUTION:

Never release the activation prevention mechanism on the squib connector even when inspecting with the squib disconnected.

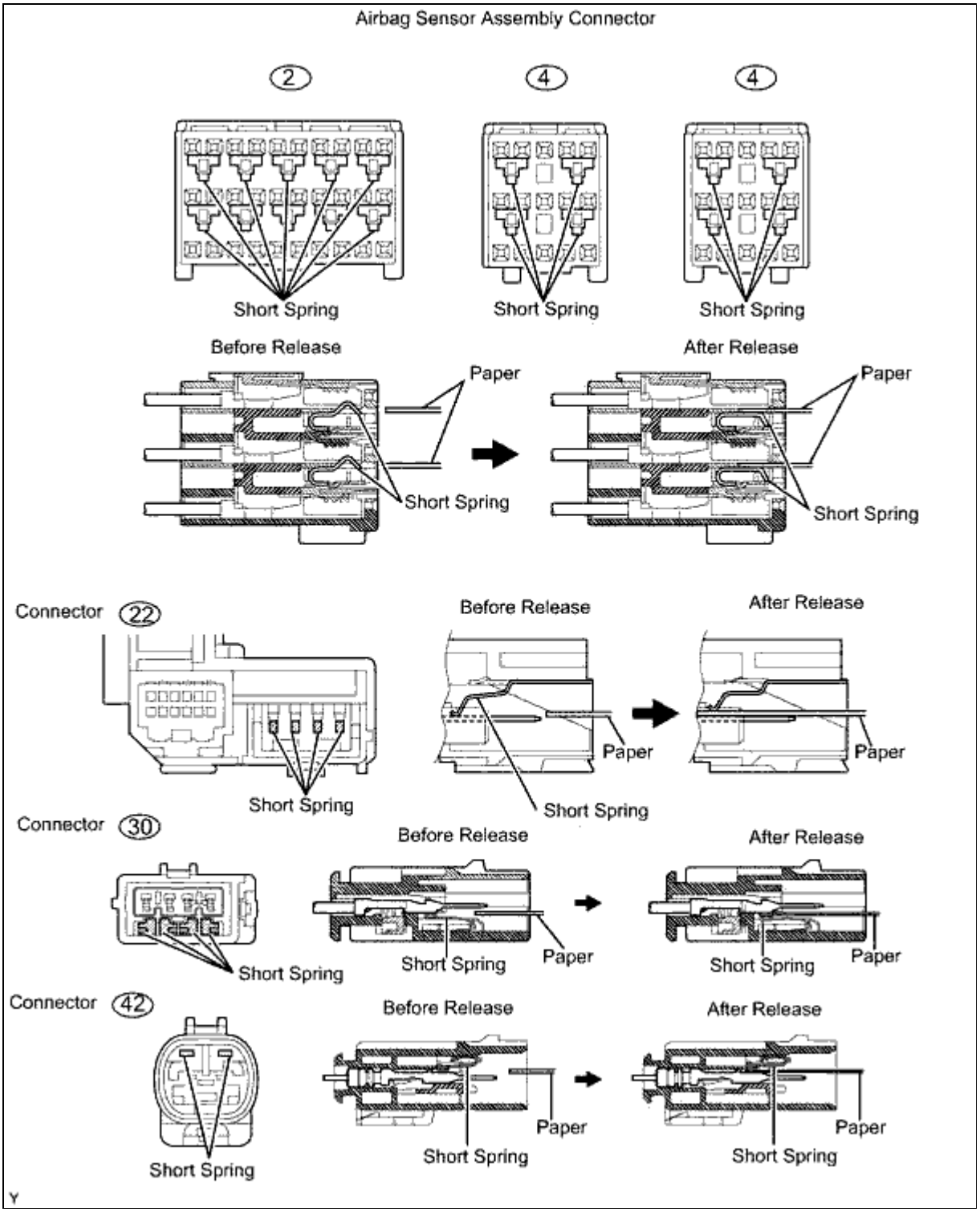
NOTICE:

- Do not release the activation prevention mechanism unless specially directed by the troubleshooting procedure.
- To prevent the terminal and the short spring from being damaged, always use a piece of paper of the same thickness as the male terminal.

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Last Modified: 11-13-2015	6.6 S	**Doc ID:** RM000000XF70J6X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: DIAGNOSTIC TROUBLE CODE CHART; 2016 MY Tacoma [08/2015 -]		

DIAGNOSTIC TROUBLE CODE CHART

If a DTC is displayed during the DTC check, check the circuit listed for the DTC in the table below (refer to the appropriate page).

HINT:

- When the SRS warning light remains on and the normal system code is output, a decrease in the source voltage is likely to occur. This malfunction is not stored in the memory of the airbag sensor assembly. If the power source voltage returns to normal, the SRS warning light will automatically go off.
- When 2 or more DTCs are indicated, the DTC with the lowest number appears first.
- If a DTC is not listed on the DTC chart, the airbag sensor may have malfunctioned.
- In the case of any malfunctions concerning open circuits, shorts to ground, or shorts to B+ due to squibs, other DTCs may not be set. In this case, repair the malfunction currently indicated and then perform malfunction diagnosis again.
- Mark in the check mode column:

  *1: DTC does not correspond to check mode.

  *2: DTC corresponds to check mode.
- When DTC B1650/32 is set as a result of troubleshooting the Supplemental Restraint System (SRS), perform troubleshooting for the occupant classification system.

Airbag Sensor Assembly

DTC CODE	DETECTION ITEM	CHECK MODE	SRS WARNING LIGHT	SEE PAGE
B1000/31	Center Airbag Sensor Assembly Malfunction	*1	ON	INFO
B1610/13	Front Airbag Sensor RH Circuit Malfunction	*1	ON	INFO
B1615/14	Front Airbag Sensor LH Circuit Malfunction	*1	ON	INFO
B1620/21	Driver Side - Side Airbag Sensor Circuit Malfunction	*1	ON	INFO
B1625/22	Front Passenger Side - Side Airbag Sensor Circuit Malfunction	*1	ON	INFO
B1630/23	Driver Side Rear Airbag Sensor Circuit Malfunction	*1	ON	INFO
B1635/24	Front Passenger Side Rear Airbag Sensor Circuit Malfunction	*1	ON	INFO
B1650/32	Occupant Classification System Malfunction	*1	ON	INFO
B1653/35	Seat Position Airbag Sensor Circuit Malfunction	*1	ON	INFO
B1656/38	Seat Belt Buckle Switch LH Circuit Malfunction	*1	ON	INFO
B1660/43	Passenger Airbag ON/OFF Indicator Circuit Malfunction	*1	ON	INFO
B1800/51	Short in Driver Side Squib Circuit	*2	ON	INFO
B1801/51	Open in Driver Side Squib Circuit	*2	ON	INFO
B1802/51	Short to GND in Driver Side Squib Circuit	*2	ON	INFO

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DTC CODE	DETECTION ITEM	CHECK MODE	SRS WARNING LIGHT	SEE PAGE
B1803/51	Short to B+ in Driver Side Squib Circuit	*2	ON	INFO
B1805/52	Short in Front Passenger Side Squib Circuit	*2	ON	INFO
B1806/52	Open in Front Passenger Side Squib Circuit	*2	ON	INFO
B1807/52	Short to GND in Front Passenger Side Squib Circuit	*2	ON	INFO
B1808/52	Short to B+ in Front Passenger Side Squib Circuit	*2	ON	INFO
B1810/53	Short in Driver Side Squib 2nd Step Circuit	*2	ON	INFO
B1811/53	Open in Driver Side Squib 2nd Step Circuit	*2	ON	INFO
B1812/53	Short to GND in Driver Side Squib 2nd Step Circuit	*2	ON	INFO
B1813/53	Short to B+ in Driver Side Squib 2nd Step Circuit	*2	ON	INFO
B1815/54	Short in Front Passenger Side Squib 2nd Step Circuit	*2	ON	INFO
B1816/54	Open in Front Passenger Side Squib 2nd Step Circuit	*2	ON	INFO
B1817/54	Short to GND in Front Passenger Side Squib 2nd Step Circuit	*2	ON	INFO
B1818/54	Short to B+ in Front Passenger Side Squib 2nd Step Circuit	*2	ON	INFO
B181A/7A	Short in Passenger Side Airbag Variable Vent Hole Squib Circuit	*2	ON	INFO
B181B/7A	Open in Passenger Side Airbag Variable Vent Hole Squib Circuit	*2	ON	INFO
B181C/7A	Short to GND in Passenger Side Airbag Variable Vent Hole Squib Circuit	*2	ON	INFO
B181D/7A	Short to B+ in Passenger Side Airbag Variable Vent Hole Squib Circuit	*2	ON	INFO
B1820/55	Short in Front Driver Side - Side Squib Circuit	*2	ON	INFO
B1821/55	Open in Front Driver Side - Side Squib Circuit	*2	ON	INFO
B1822/55	Short to GND in Front Driver Side - Side Squib Circuit	*2	ON	INFO
B1823/55	Short to B+ in Front Driver Side - Side Squib Circuit	*2	ON	INFO
B1825/56	Short in Front Passenger Side - Side Squib Circuit	*2	ON	INFO
B1826/56	Open in Front Passenger Side - Side Squib Circuit	*2	ON	INFO
B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit	*2	ON	INFO
B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit	*2	ON	INFO
B1830/57	Short in Driver Side Curtain Shield Squib Circuit	*2	ON	INFO
B1831/57	Open in Driver Side Curtain Shield Squib Circuit	*2	ON	INFO
B1832/57	Short to GND in Driver Side Curtain Shield Squib Circuit	*2	ON	INFO
B1833/57	Short to B+ in Driver Side Curtain Shield Squib Circuit	*2	ON	INFO

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DTC CODE	DETECTION ITEM	CHECK MODE	SRS WARNING LIGHT	SEE PAGE
B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit	*2	ON	INFO
B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit	*2	ON	INFO
B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit	*2	ON	INFO
B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit	*2	ON	INFO
B1860/64	Short in Driver Side Knee Airbag Squib Circuit	*2	ON	INFO
B1861/64	Open in Driver Side Knee Airbag Squib Circuit	*2	ON	INFO
B1862/64	Short to GND in Driver Side Knee Airbag Squib Circuit	*2	ON	INFO
B1863/64	Short to B+ in Driver Side Knee Airbag Squib Circuit	*2	ON	INFO
B1865/65	Short in Front Passenger Side Knee Airbag Squib Circuit	*2	ON	INFO
B1866/65	Open in Front Passenger Side Knee Airbag Squib Circuit	*2	ON	INFO
B1867/65	Short to GND in Front Passenger Side Knee Airbag Squib Circuit	*2	ON	INFO
B1868/65	Short to B+ in Front Passenger Side Knee Airbag Squib Circuit	*2	ON	INFO
B1900/73	Short in Front Driver Side Pretensioner Squib Circuit	*2	ON	INFO
B1901/73	Open in Front Driver Side Pretensioner Squib Circuit	*2	ON	INFO
B1902/73	Short to GND in Front Driver Side Pretensioner Squib Circuit	*2	ON	INFO
B1903/73	Short to B+ in Front Driver Side Pretensioner Squib Circuit	*2	ON	INFO
B1905/74	Short in Front Passenger Side Pretensioner Squib Circuit	*2	ON	INFO
B1906/74	Open in Front Passenger Side Pretensioner Squib Circuit	*2	ON	INFO
B1907/74	Short to GND in Front Passenger Side Pretensioner Squib Circuit	*2	ON	INFO
B1908/74	Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit	*2	ON	INFO

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000000XFE0O1X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: DTC CHECK / CLEAR; 2016 MY Tacoma [08/2015 -]		

DTC CHECK / CLEAR

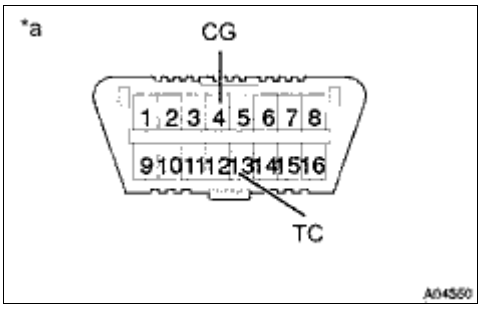
1. SUPPLEMENTAL RESTRAINT SYSTEM DTC CHECK (USING SST CHECK WIRE)

(a) Check the DTCs (Present DTCs).

(1) Turn the ignition switch to ON, and wait for approximately 60 seconds.

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

SST: 09843-18040



NOTICE:

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

(b) Check the DTCs (Past DTCs).

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

SST: 09843-18040

NOTICE:

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

(2) Turn the ignition switch to ON, and wait for approximately 60 seconds.

Text in Illustration

*a	DLC3

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(c) Read the DTCs.

(1) Observe the SRS warning light blinking patterns to read DTCs. As examples, the blinking patterns for the normal system indication, the past DTC indication, and the present DTC indication are shown in the illustration.

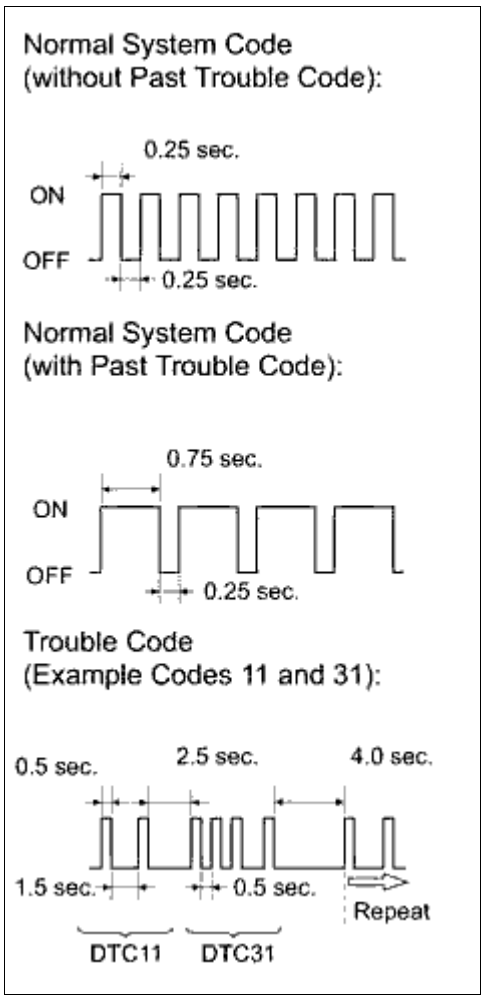
- Normal system indication

  The SRS warning light blinks twice per second.
- Past DTC indication

  When any past DTCs are stored in the airbag sensor assembly, the SRS warning light blinks only once per second.
- Present DTC indication

  The first blinking indicates the first digit of a 2-digit DTC. The second blinking occurs after a 1.5-second pause to indicate the second digit.

If there are 2 or more DTCs, there is a 2.5-second pause after each one. After all the DTC are displayed, there is a 4.0-second pause, and they are repeated.



HINT:

- If 2 or more malfunctions are found, the indication begins with the smaller numbered code.
- If DTCs are indicated without connecting the terminals, proceed to "TC and CG Terminal Circuit" INFO .

2. DTC CLEAR (USING SST CHECK WIRE)

(a) Clear the DTCs.

(1) When the ignition switch is turned off (turned to the lock position), the DTCs are cleared.

HINT:

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

(2) Using SST, connect terminals TC and CG of the DLC3, and then turn the ignition switch to ON.

SST: 09843-18040

(3) Disconnect terminal TC of the DLC3 within 3 to 10 seconds after the DTCs being output, and check if the SRS warning light comes on within 3 seconds.

(4) Within 2 to 4 seconds of the SRS warning light coming on, connect terminals TC and CG of the DLC3.

(5) The SRS warning light should turn off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Then, disconnect terminal TC within 2 to 4 seconds after the SRS warning light turning off.

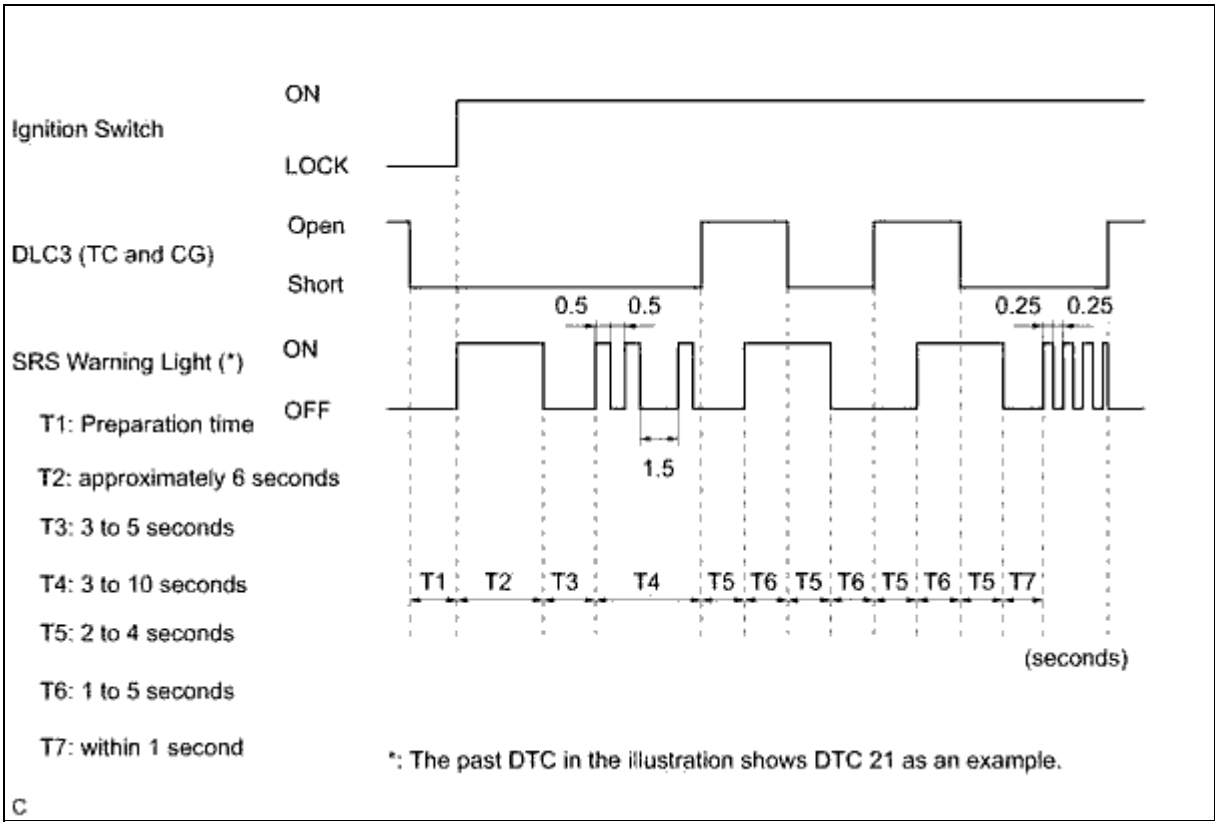
(6) The SRS warning light comes on again within 2 to 4 seconds after disconnecting terminal TC. Then, reconnect terminals TC and CG within 2 to 4 seconds after the SRS warning light coming on, connect terminals TC and CG of the DLC3.

(7) Check if the SRS warning light turns off 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Also check if the normal system indication is displayed within 1 second of the SRS warning light

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turning off.

If DTCs are not cleared, repeat this procedure until the codes are cleared.



3. SUPPLEMENTAL RESTRAINT SYSTEM DTC CHECK (USING TECHSTREAM)

(a) Check the DTCs.

(1) Connect the Techstream to the DLC3.

(2) Turn the ignition switch to ON and turn the Techstream on.

(3) Check the DTCs by following the prompts on the Techstream screen.

HINT:

Refer to the Techstream operator manual for further details.

(b) Clear the DTCs.

(1) Connect the Techstream to the DLC3.

(2) Turn the ignition switch to ON and turn the Techstream on.

(3) Clear the DTCs by following the prompts on the Techstream screen.

HINT:

Refer to the Techstream operator's manual for further details.

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000000XF60NQX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2016 MY Tacoma [08/2015 -]		

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

*: Use the Techstream.

1.	**VEHICLE BROUGHT TO WORKSHOP**

NEXT

2.	**CUSTOMER PROBLEM ANALYSIS** INFO

(a) Confirm problem symptoms.

NEXT

3.	**CHECK CAN COMMUNICATION SYSTEM*** INFO

Result

RESULT	PROCEED TO
DTCs not output	A
DTCs output	B

B **CHECK CAN COMMUNICATION CIRCUIT**

A

4.	**WARNING LIGHT CHECK** INFO

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NEXT

5.	**DTC CHECK (Present and Past DTCs)*** INFO

Result

RESULT	PROCEED TO
DTCs output	A
DTCs not output	B

B **PROBLEM SYMPTOMS TABLE**

A

6.	**DTC CHART** INFO

NEXT

7.	**CIRCUIT INSPECTION**

NEXT

8.	**REPAIR OR REPLACEMENT**

NEXT

9.	**DTC CLEARANCE (Present and Past DTCs)*** INFO

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NEXT

10.	DTC CHECK* INFO

Result

RESULT	PROCEED TO
DTCs not output	A
DTCs output	B

B ▶ DIAGNOSTIC TROUBLE CODE CHART

A

11.	CONFIRMATION TEST

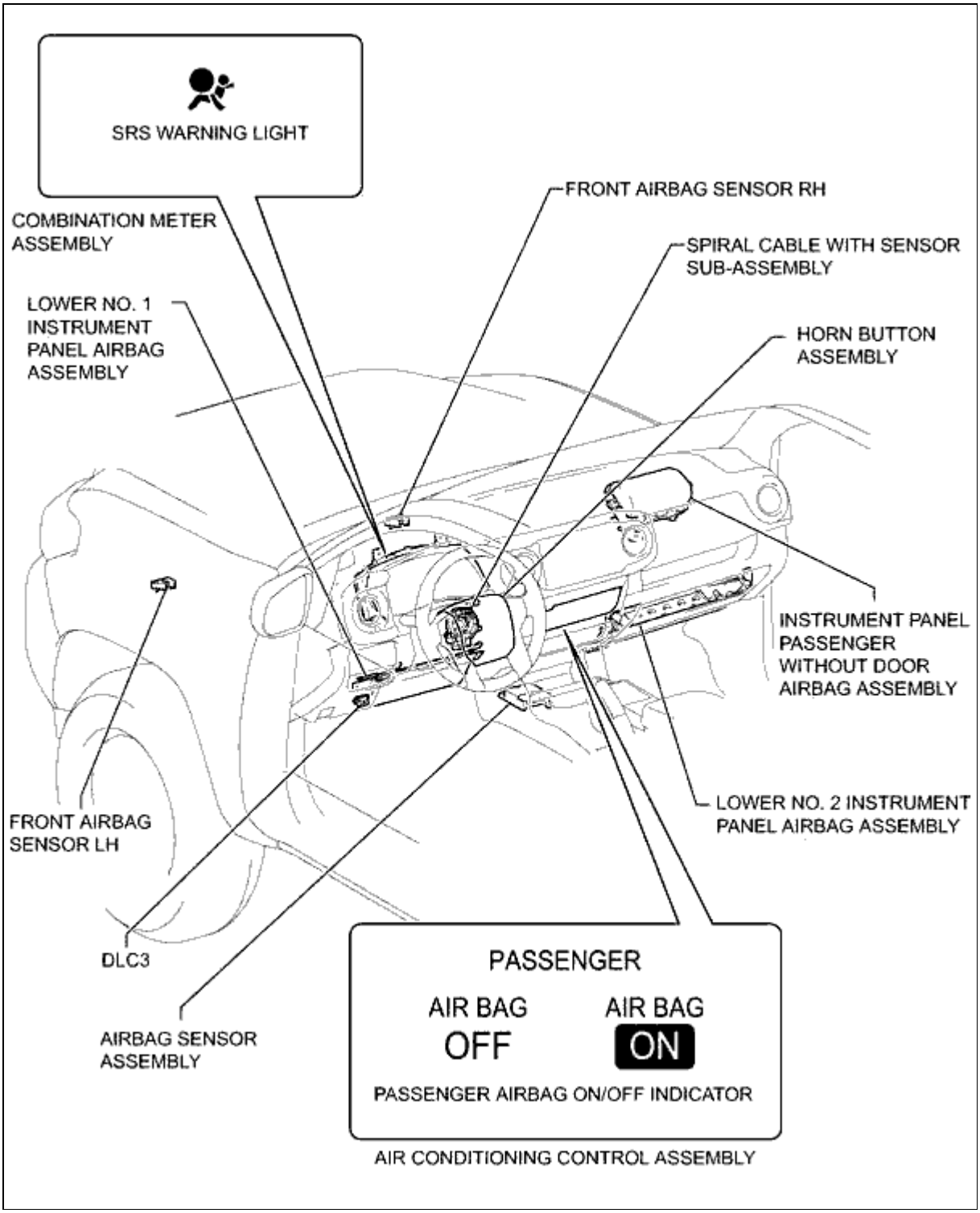
NEXT ▶ END

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Last Modified: 11-13-2015	6.6 R	**Doc ID:** RM000000XF806LX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: PARTS LOCATION; 2016 MY Tacoma [08/2015 -]		

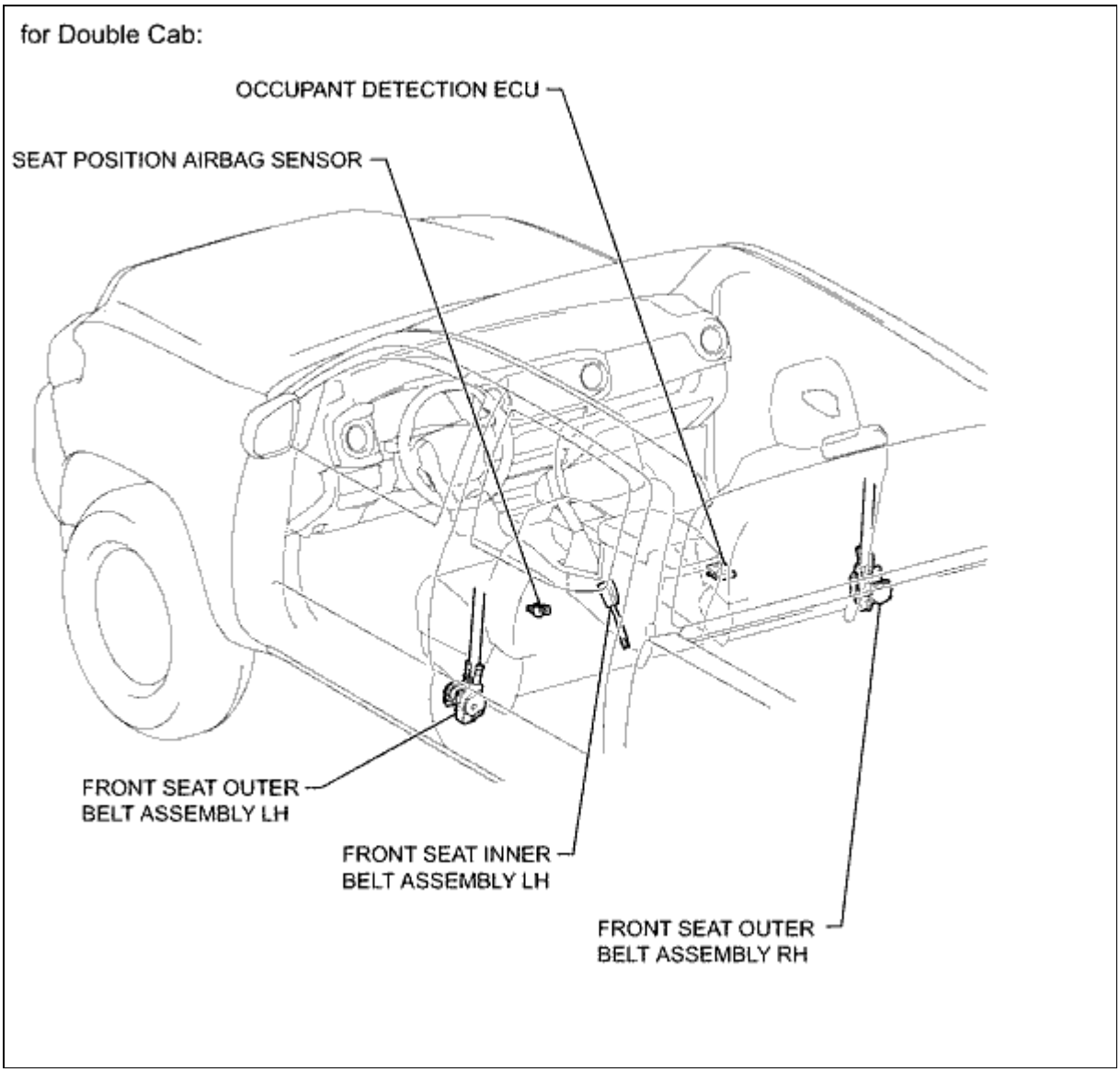
PARTS LOCATION

ILLUSTRATION



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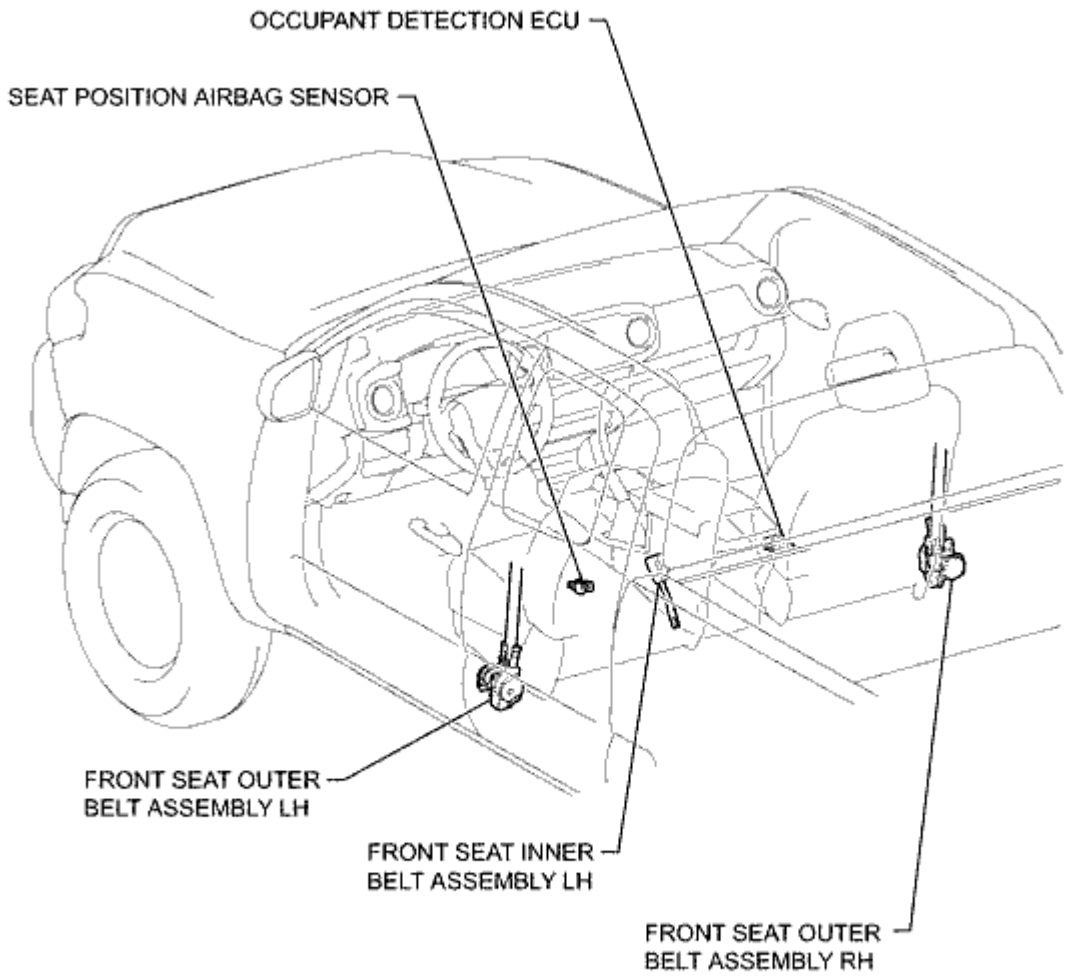
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ILLUSTRATION

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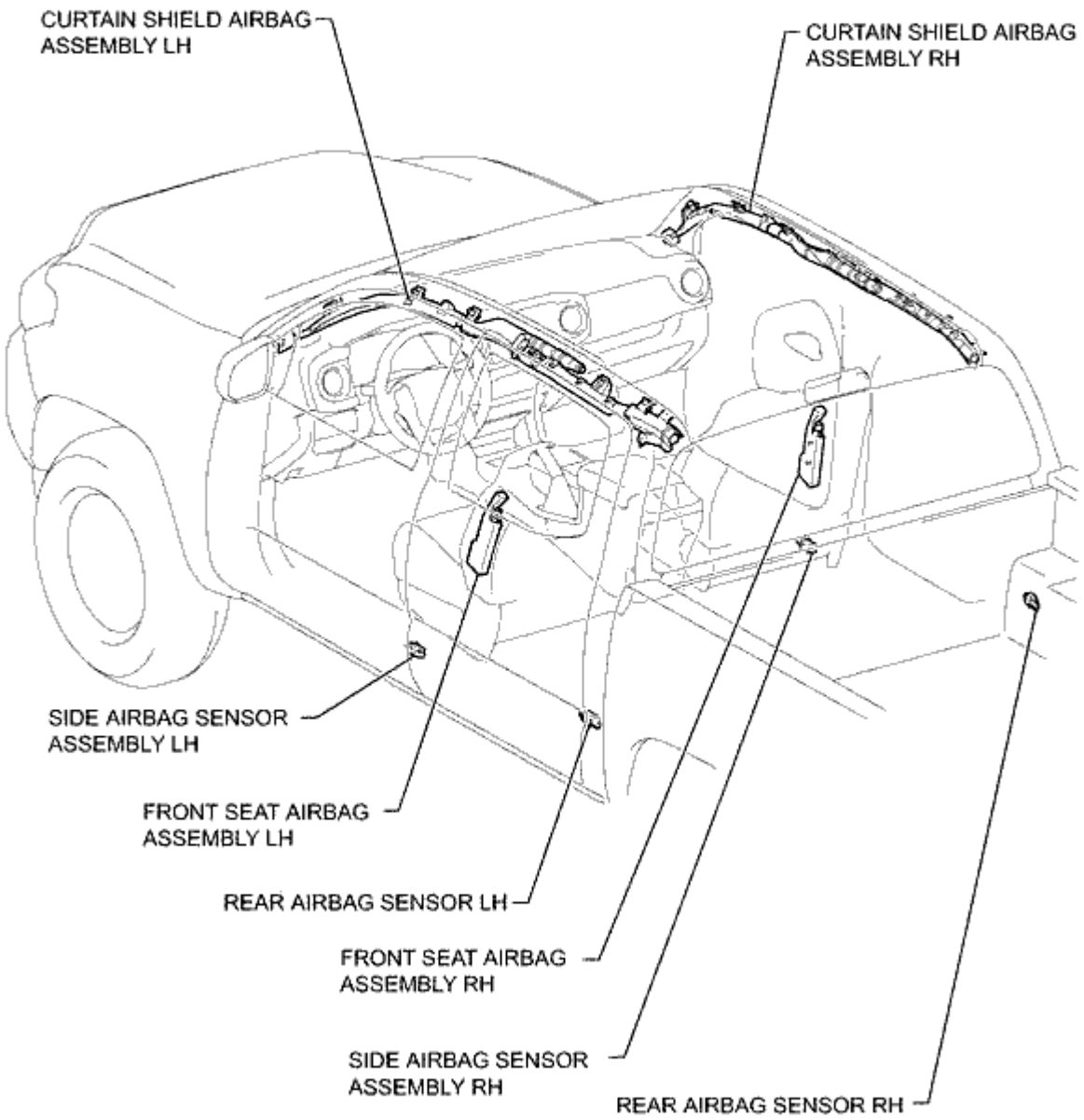
for Access Cab:



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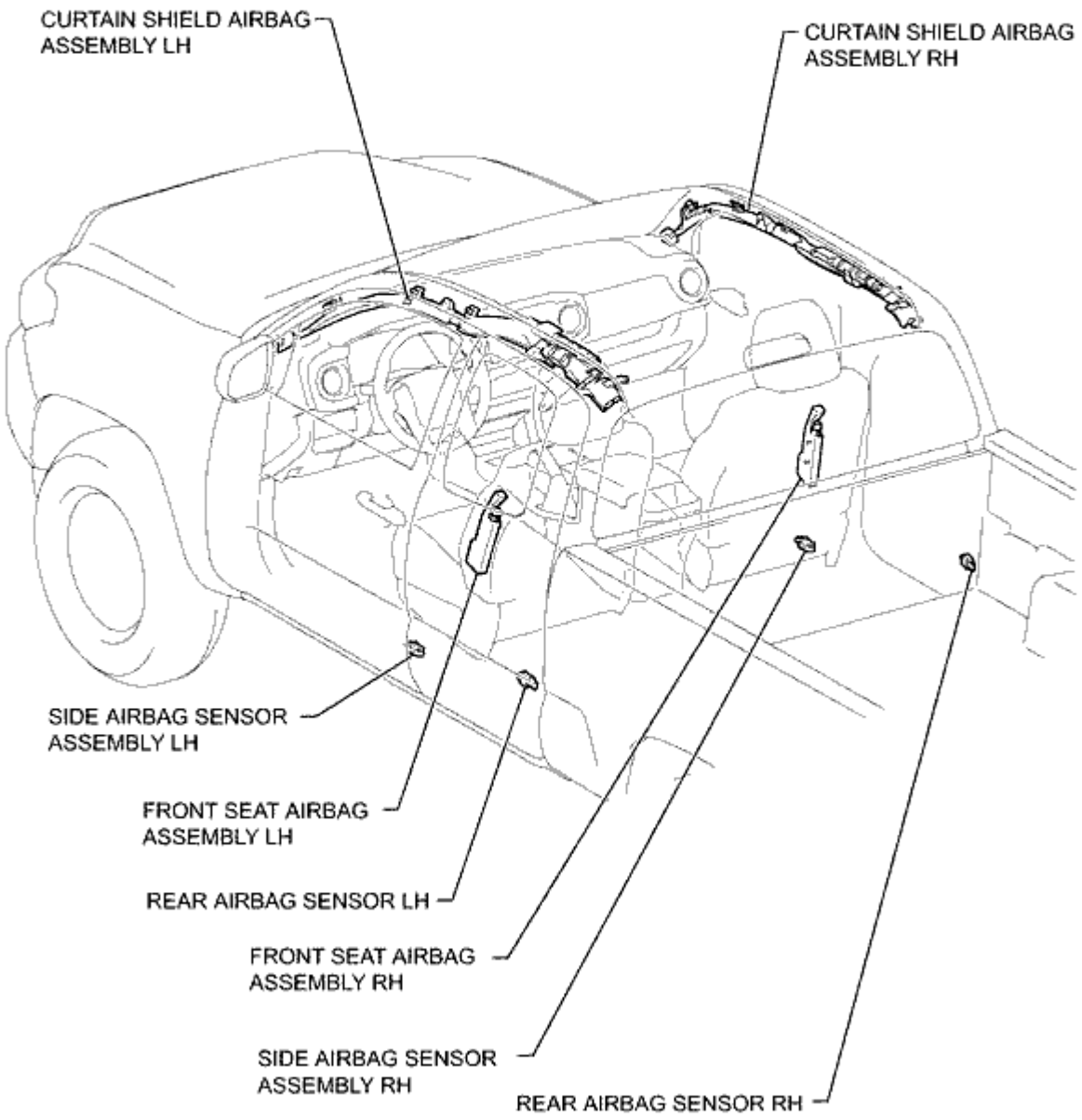
for Double Cab:



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for Access Cab:



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Last Modified: 11-13-2015	6.6 L	**Doc ID:** RM000000KT10OFX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: PRECAUTION; 2016 MY Tacoma [08/2015 -]		

PRECAUTION

CAUTION:

- The vehicle is equipped with SRS, which consists of a driver airbag, front passenger airbag, side airbags and curtain shield airbags and knee airbags. Failure to carry out service operations in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Further more, if a mistake is made in servicing the SRS, it is possible that the SRS may fail to operate when required. Before performing servicing (including removal or installation of parts, inspection or replacement), be sure to read the following items carefully, then follow the correct procedures indicated in the repair manual.
- Wait at least 90 seconds after the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery. (The SRS is equipped with a back-up power source, so if work is started within 90 seconds after disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed.)
- Do not directly expose the horn button assembly, front panel passenger airbag assembly, lower No. 1 instrument panel airbag assembly, lower No. 2 instrument panel airbag assembly, airbag sensor assembly, front airbag sensor, front seat airbag assembly, side airbag sensor assembly, curtain shield airbag assembly, rear airbag sensor, seat position airbag sensor or occupant detection ECU to hot air or flames.
- Be sure to perform the initialization of the occupant detection ECU if any of the following conditions occur INFO . If the initialization is not performed, the SRS may not operate properly.
    - The occupant detection ECU is replaced.
    - Accessories (seatback tray, seat cover, etc.) are installed onto the vehicle.
    - The passenger seat is removed from the vehicle, and then reinstalled or replaced.
    - The passenger airbag ON/OFF indicator light (OFF) comes on when the passenger seat is not occupied.
    - The vehicle is brought to the workshop for repair due to an accident or collision.

NOTICE:

- Malfunction symptoms of the SRS are difficult to confirm, so DTCs are the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect DTCs before disconnecting the battery.
- Even in the case of a minor collision when the SRS does not deploy, the horn button assembly, instrument panel passenger without door airbag assembly, lower No. 1 instrument panel airbag assembly, lower No. 2 instrument panel airbag assembly, airbag sensor assembly, front airbag sensor, front seat airbag assembly, side airbag sensor assembly, Curtain shield airbag assembly, rear airbag sensor, seat position airbag sensor and occupant detection ECU should be inspected.
- Before repair work, remove the airbag sensor if any kind of shock is likely to occur to the airbag sensor during the operation.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new ones.
- Never disassemble or repair the horn button assembly, instrument panel passenger without door airbag assembly, lower No. 1 instrument panel airbag assembly, lower No. 2 instrument panel airbag assembly, airbag sensor assembly, front airbag sensor, front seat airbag assembly, side airbag sensor assembly, Curtain shield airbag assembly, rear airbag sensor, seat position airbag sensor or occupant detection ECU in order to reuse it.
- If the horn button assembly, instrument panel passenger without door airbag assembly, lower No. 1 instrument panel airbag assembly, lower No. 2 instrument panel airbag assembly, airbag sensor assembly, front airbag sensor, front seat airbag assembly, side airbag sensor assembly, curtain shield airbag assembly, rear airbag sensor, seat position airbag sensor or occupant detection ECU has been dropped, or if there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions in the cautions.
- After work on the SRS is completed, perform the SRS warning light check INFO .
- When the negative (-) terminal cable is disconnected from the battery, the memory will be cleared. Thus,

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be sure to make a record of the contents stored in each system before starting work. When the work is finished, reset each system, as it was before. Never use a back-up power supply from outside the vehicle to avoid erasing the memory in any system.

- If the vehicle is equipped with a mobile communication system, refer to the precaution in the INTRODUCTION section.

1. HANDLING PRECAUTIONS FOR AIRBAG SENSORS

HINT:

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

- Airbag Sensor assembly
- Front Airbag Sensor LH
- Front Airbag Sensor RH
- Side Airbag Sensor Assembly LH
- Side Airbag Sensor Assembly RH
- Rear Airbag Sensor LH
- Rear Airbag Sensor RH

(a) Before starting the following operations, wait for at least 90 seconds after disconnecting the negative (-) terminal cable from the battery:

(1) Replacement of the airbag sensors.

(2) Adjustment of the front/rear doors of the vehicle equipped with the side airbag and curtain shield airbag (fitting adjustment).

(b) When connecting or disconnecting the airbag sensor connectors, ensure that each sensor is installed in the vehicle.

(c) Do not use the airbag sensors which has been dropped during the operation or transportation.

(d) Do not disassemble the airbag sensors.

(e) If engine is run immediately after reconnecting negative battery terminal cable, keep it at less than 2000 rpm for at least 1 minute.

(f) If the engine exceeds 2000 rpm, the clutch is automatically disengaged by the compressor protection control system.

2. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

(a) When the airbag has not deployed, check for DTCs by checking the SRS warning light blinking patterns or using a Techstream. If any DTCs are present, perform troubleshooting for those DTCs.

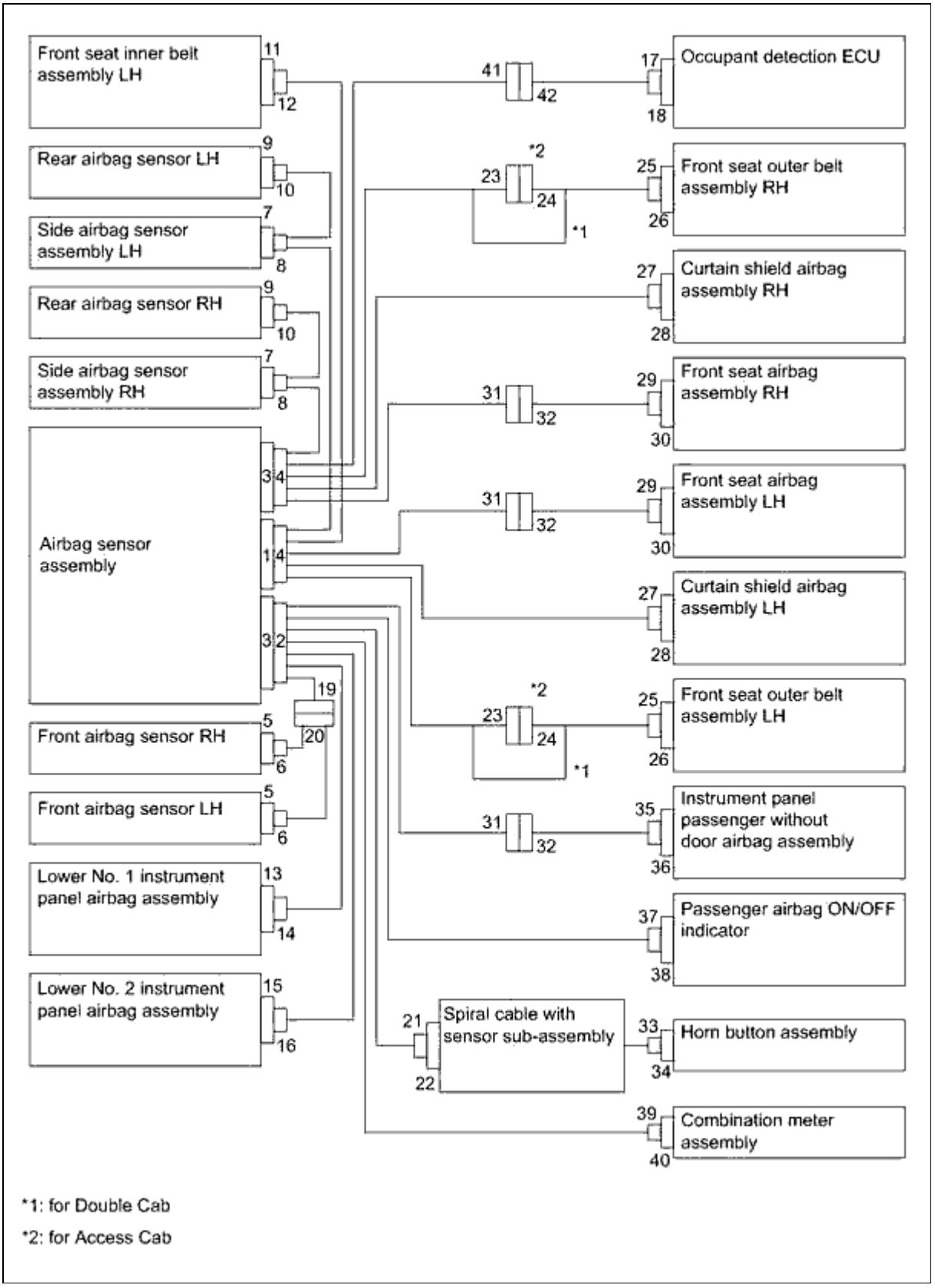
(b) When any of the airbags have deployed due to the collision, be sure to replace all sensors in the damaged areas and airbag sensor assembly.

3. SRS CONNECTORS

HINT:

SRS connectors are located as shown in the following illustration.

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NO.	CONNECTOR TYPE	APPLICATION
(1)	Terminal Twin-Lock Mechanism	Connectors 2, 4, 6, 8, 10, 19, 20, 21, 29, 31
(2)	Activation Prevention Mechanism	Connectors 2, 4, 22, 30, 32

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NO.	CONNECTOR TYPE	APPLICATION
(3)	Half Connection Prevention Mechanism	Connectors 6, 8, 10, 20, 21, 23, 29
(4)	Connector Lock Mechanism (1)	Connectors 19, 25, 27, 33, 35
(5)	Connector Lock Mechanism (2)	Connectors 2, 4
(6)	Improper Connection Prevention Lock Mechanism	Connectors 1, 3

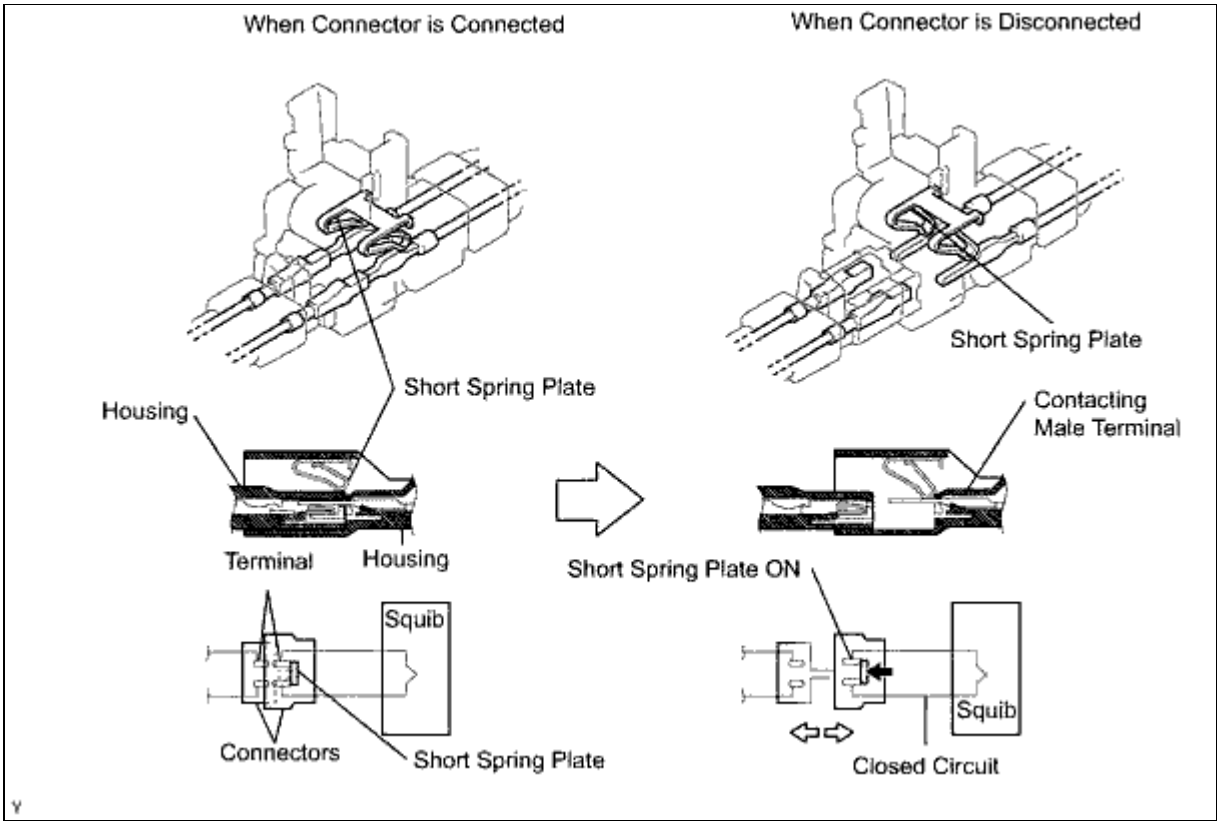
(a) All connectors in the SRS except the seat position airbag sensor connector and the occupant detection ECU connector are colored yellow to distinguish them from other connectors. Some connectors have special functions, and are specially designed for the SRS. These connectors use durable gold-plated terminals, and are placed in the locations shown above to ensure high reliability.

(1) Terminal twin-lock mechanism:

Each connector has a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent the terminals from becoming disconnected.

(2) Activation prevention mechanism:

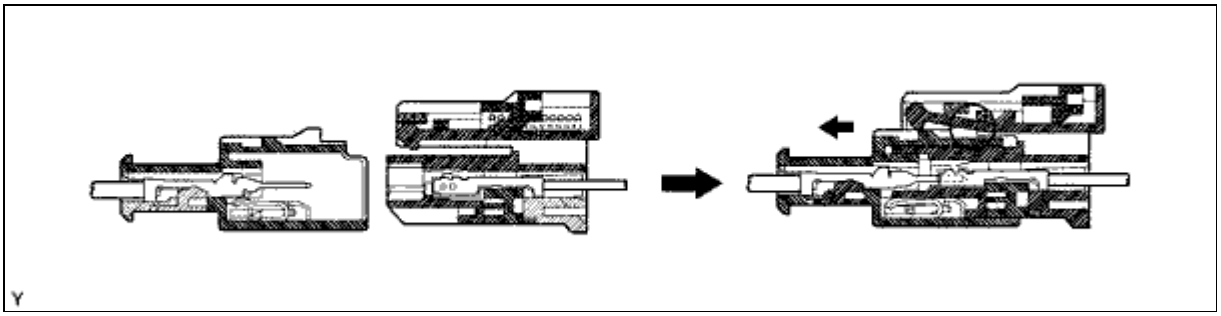
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects the positive (+) and negative (-) terminals of the squib.



(3) Half connection prevention mechanism:

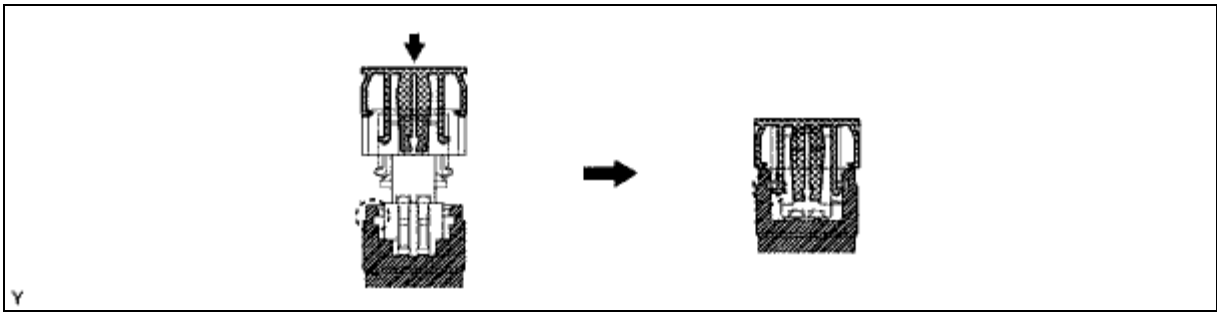
If the connector is not completely connected, the connector is disconnected due to the spring operation so that no continuity exists.

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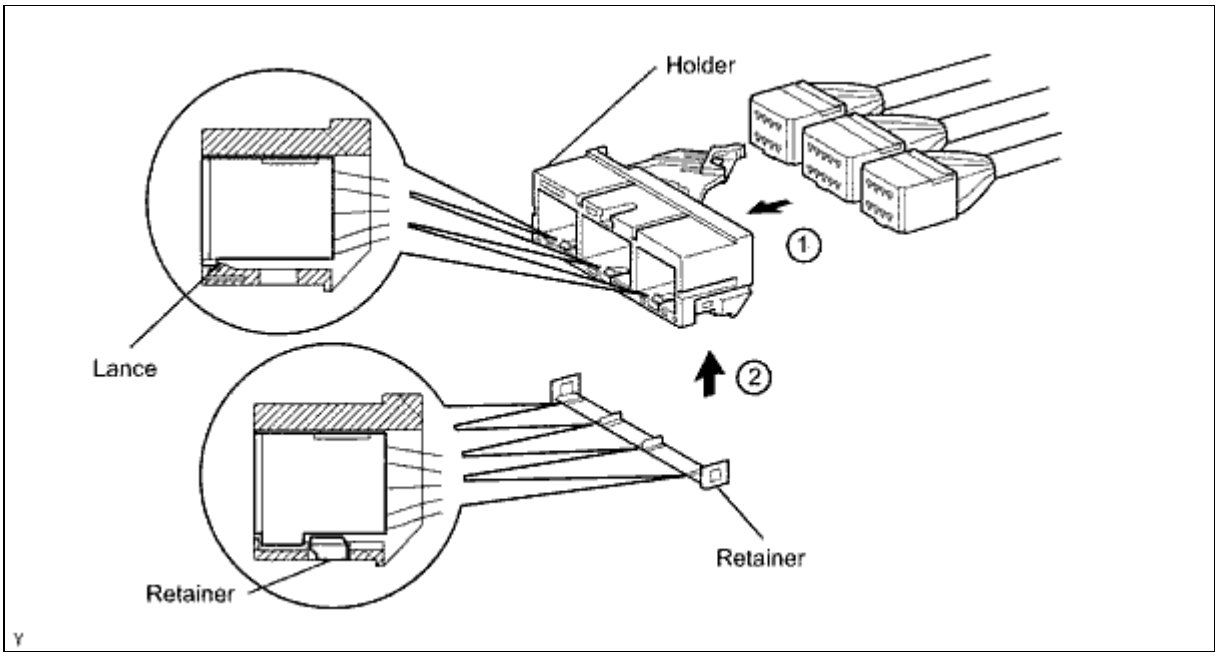
(4) Connector lock mechanism (1):

Locking the connector lock button connects the connector securely.



(5) Connector lock mechanism (2):

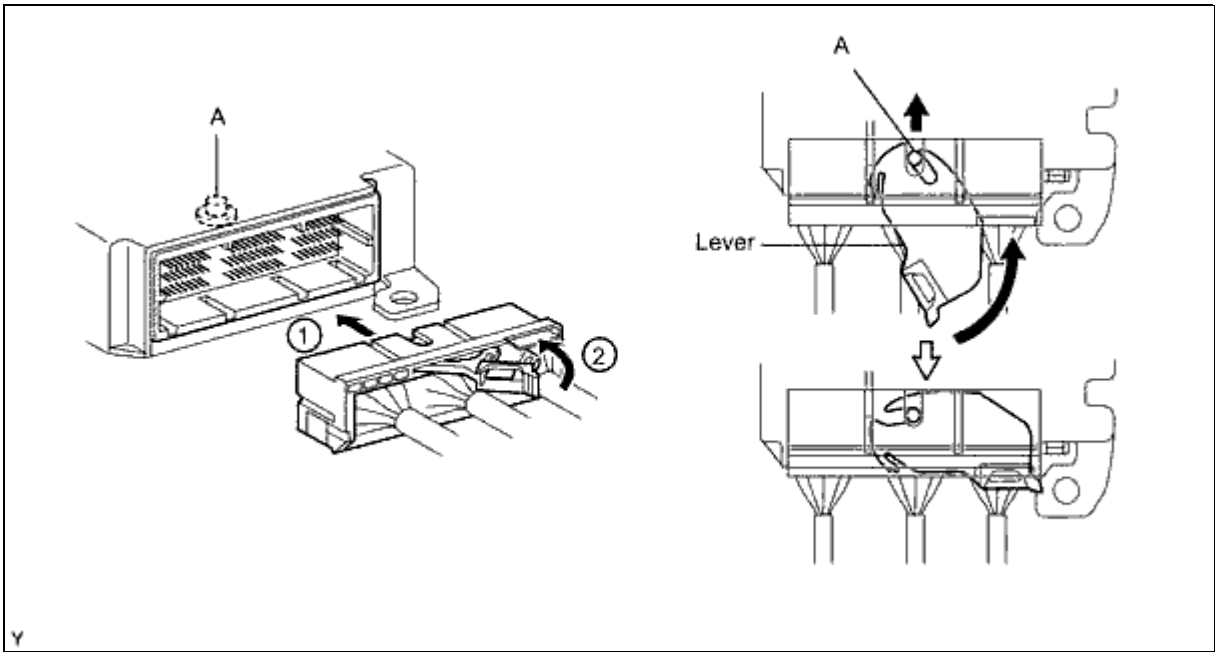
Both the primary lock with holder lances and the secondary lock with retainer prevent the connectors from becoming disconnected.



(6) Improper connection prevention lock mechanism:

When connecting the holder, the lever is pushed into the end by rotating around the A axis to lock the holder securely.

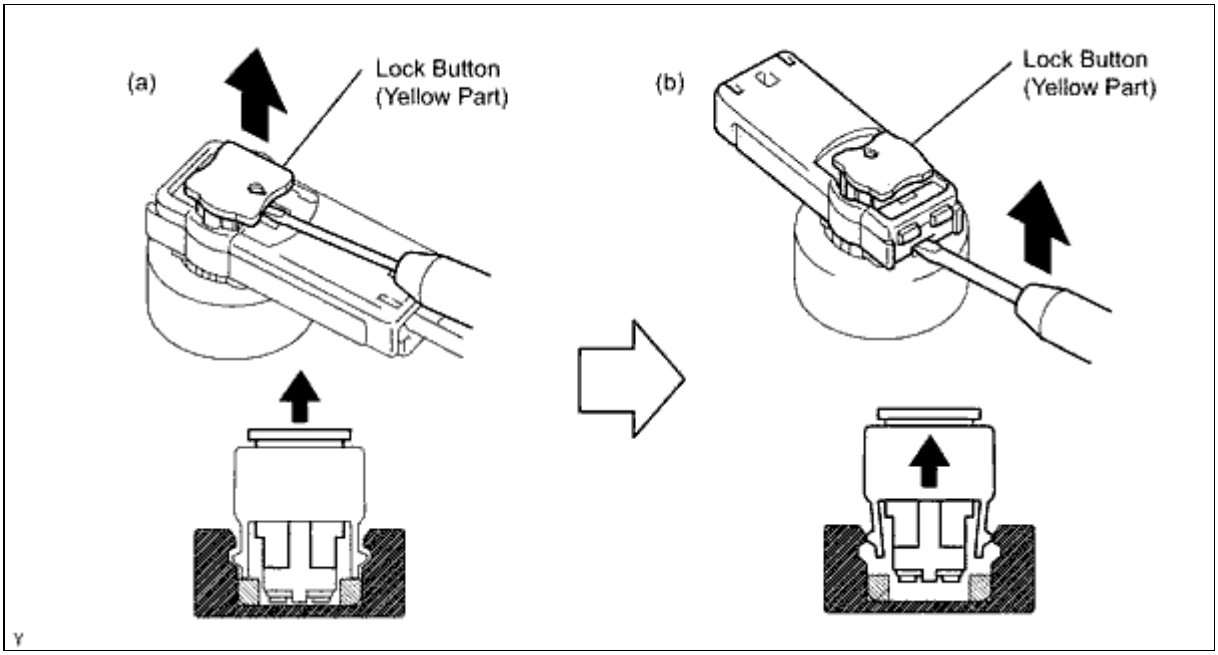
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4. DISCONNECTION OF CONNECTORS FOR HORN BUTTON ASSEMBLY, LOWER INSTRUMENT PANEL AIRBAG ASSEMBLY, INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Release the lock button (yellow part) of the connector using a screwdriver.

(b) Insert the screwdriver tip between the connector and the base, and then raise the connector.

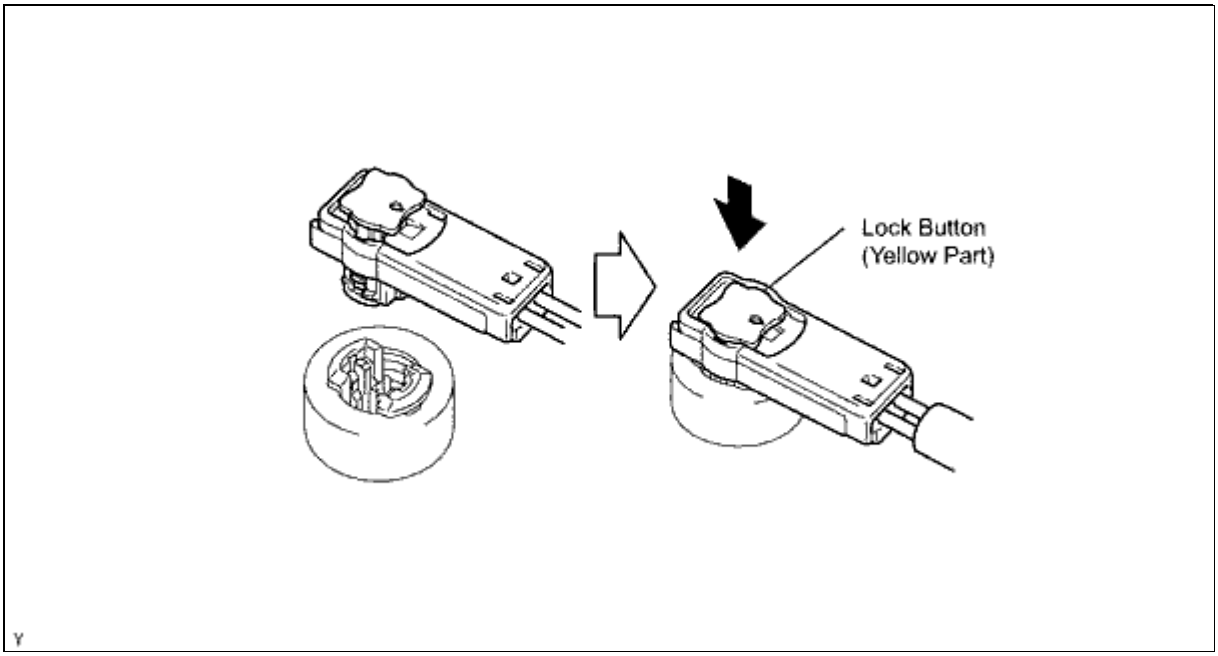


5. CONNECTION OF CONNECTORS FOR HORN BUTTON ASSEMBLY, LOWER INSTRUMENT PANEL AIRBAG ASSEMBLY, INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Connect the connector.

(b) Push down securely on the lock button (yellow part) of the connector. (When locking, a click sound can be heard.)

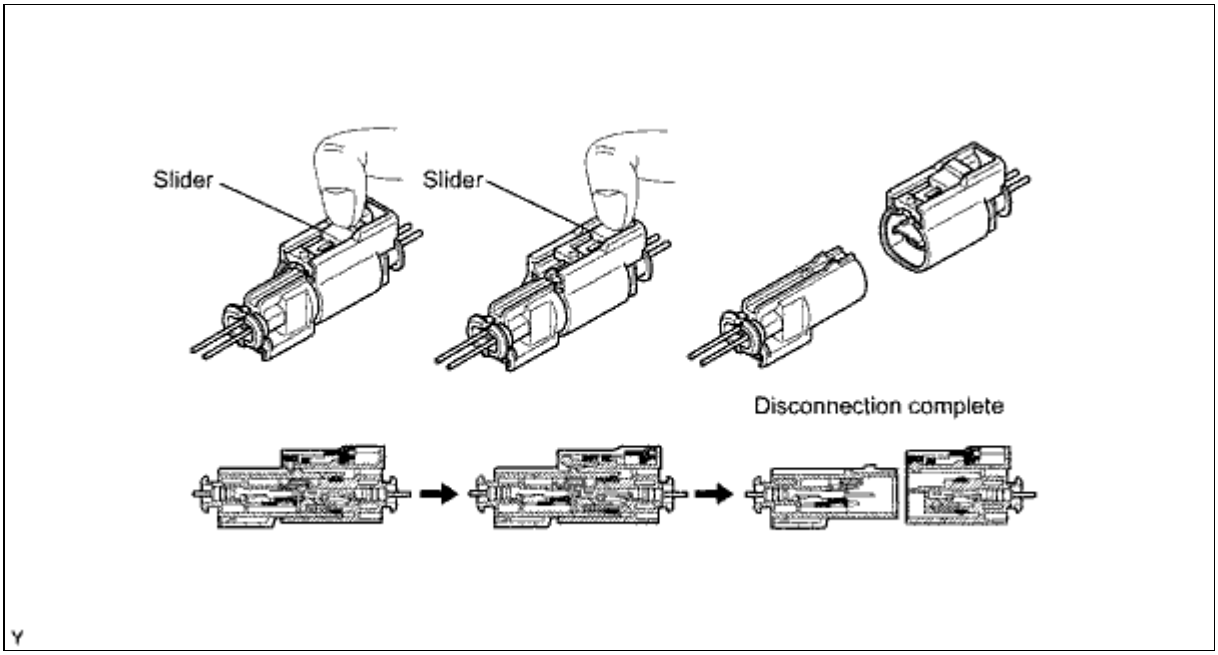
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Y

6. DISCONNECTION OF CONNECTOR FOR FRONT SEAT AIRBAG ASSEMBLY

(a) Place a finger on the slider, slide the slider to release the lock, and then disconnect the connector.



Y

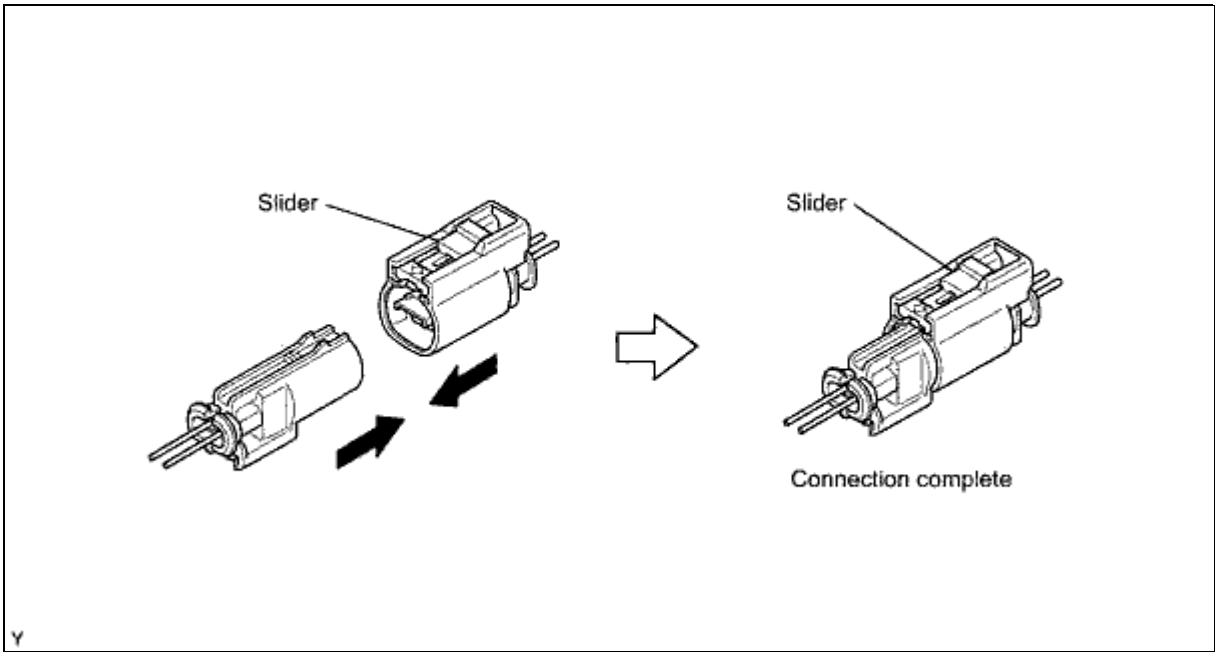
7. CONNECTION OF CONNECTOR FOR FRONT SEAT AIRBAG ASSEMBLY

(a) Connect the connector as shown in the illustration. (When locking, make sure that the slider returns to its original position and a click sound can be heard.)

HINT:

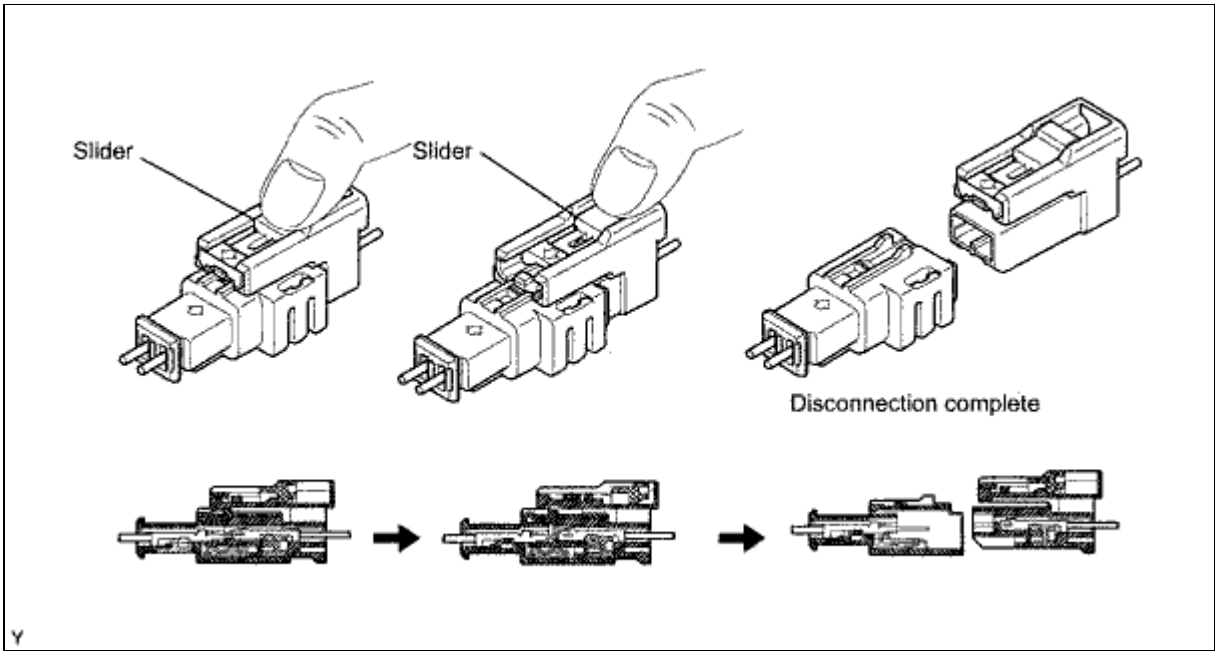
When connecting, the slider will slide. Be sure not to touch the slider while connecting, as this may result in an insecure fit.

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8. DISCONNECTION OF CONNECTOR FOR INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY

(a) Place a finger on the slider, slide the slider to release the lock, and then disconnect the connector.



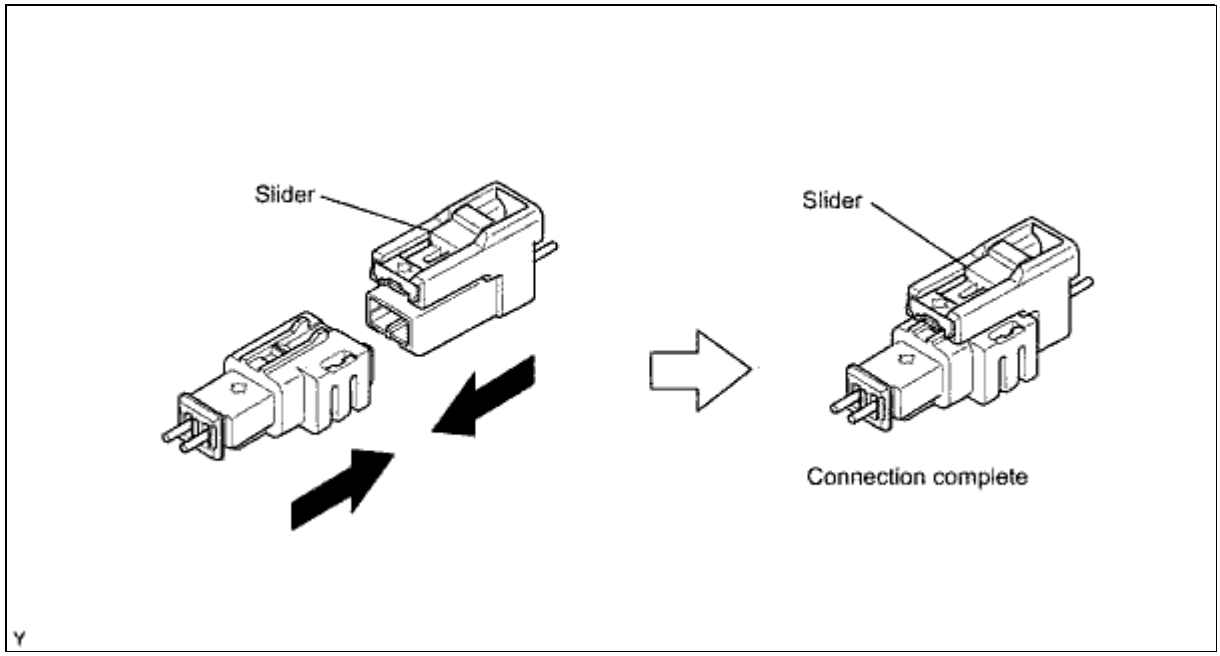
9. CONNECTION OF CONNECTOR FOR INSTRUMENT PANEL PASSENGER WITHOUT DOOR AIRBAG ASSEMBLY

(a) Connect the connector as shown in the illustration. (When locking, make sure that the slider returns to its original position and a click sound can be heard.)

HINT:

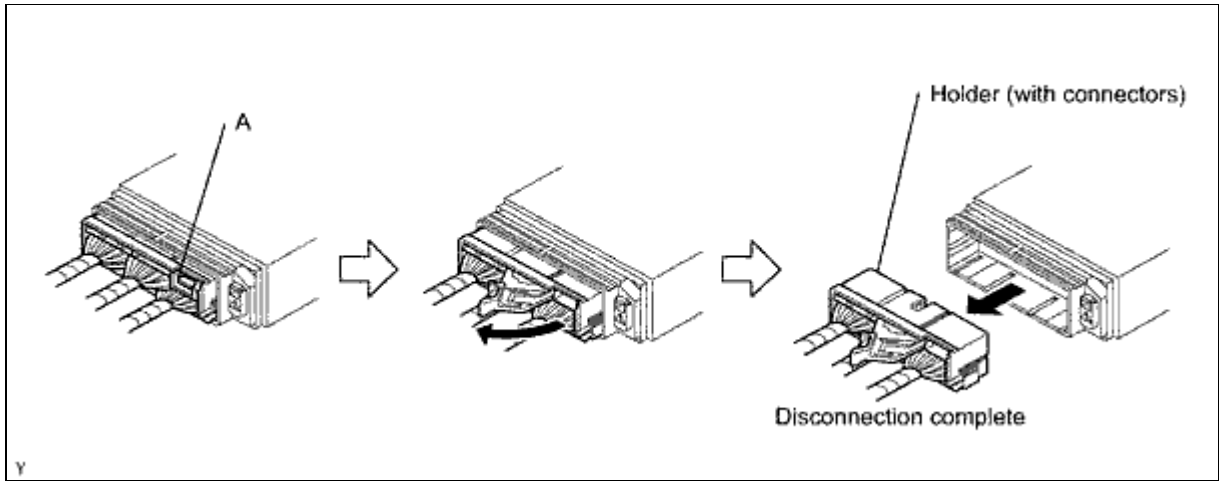
When connecting, the slider will slide. Be sure not to touch the slider while connecting, as this may result in an insecure fit.

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10. DISCONNECTION OF CONNECTOR FOR AIRBAG SENSOR ASSEMBLY

(a) Pull the lever by pushing part A as shown in the illustration and disconnect the holder (with connectors).



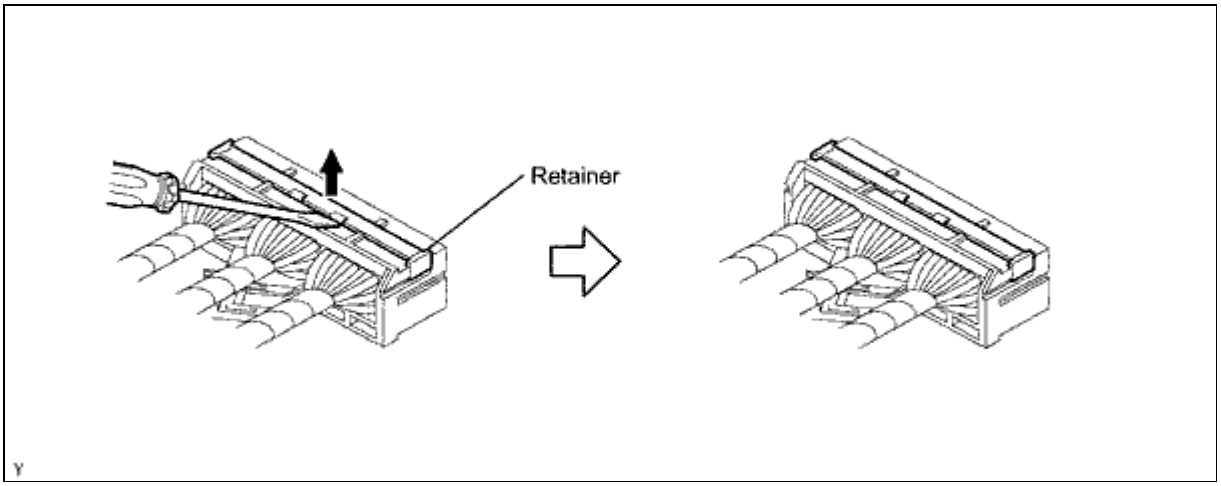
HINT:

Perform the following procedures when replacing the holder.

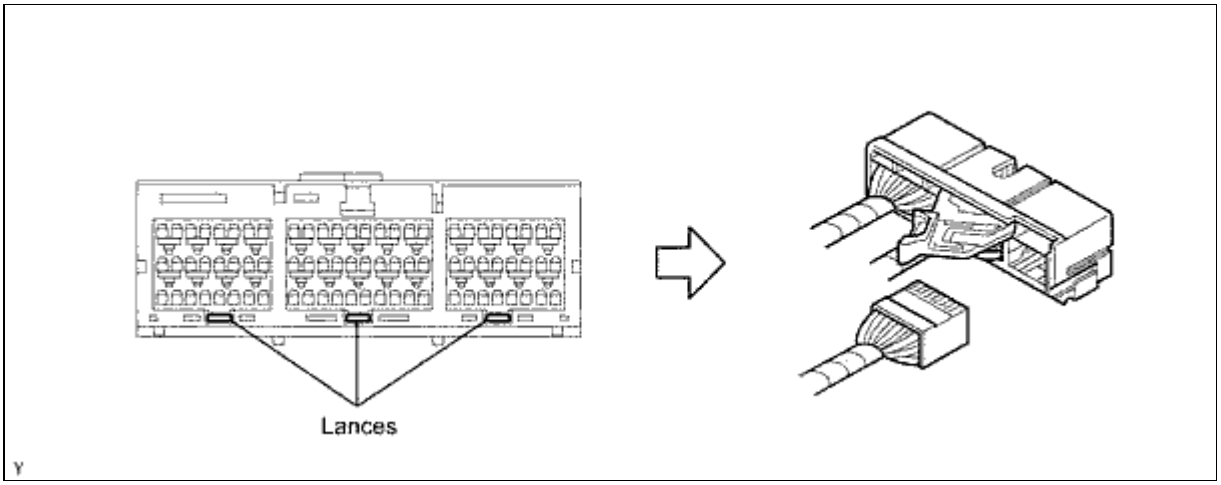
(b) Remove the holder.

(1) Using a screwdriver, unlock the retainer.

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(2) Release the fitting lances and remove the holder.



(c) Install the holder.

(1) Install the connectors into the holder. (When locking, a click sound can be heard.)

HINT:

The retainer is locked when the holder is connected.

11. CONNECTION OF CONNECTOR FOR AIRBAG SENSOR ASSEMBLY

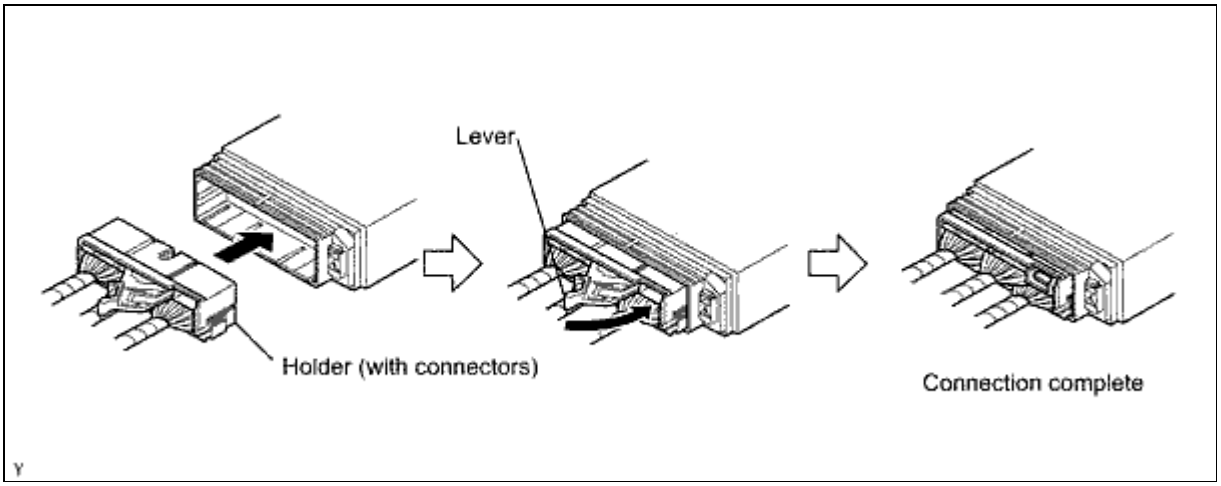
(a) Firmly insert the holder (with connectors) until it cannot be pushed any further.

(b) Push the lever to connect the holder (with connectors). (When locking, a click sound can be heard.)

HINT:

The holder slides when connecting. Holding the holder when connecting may result in an insecure connection.

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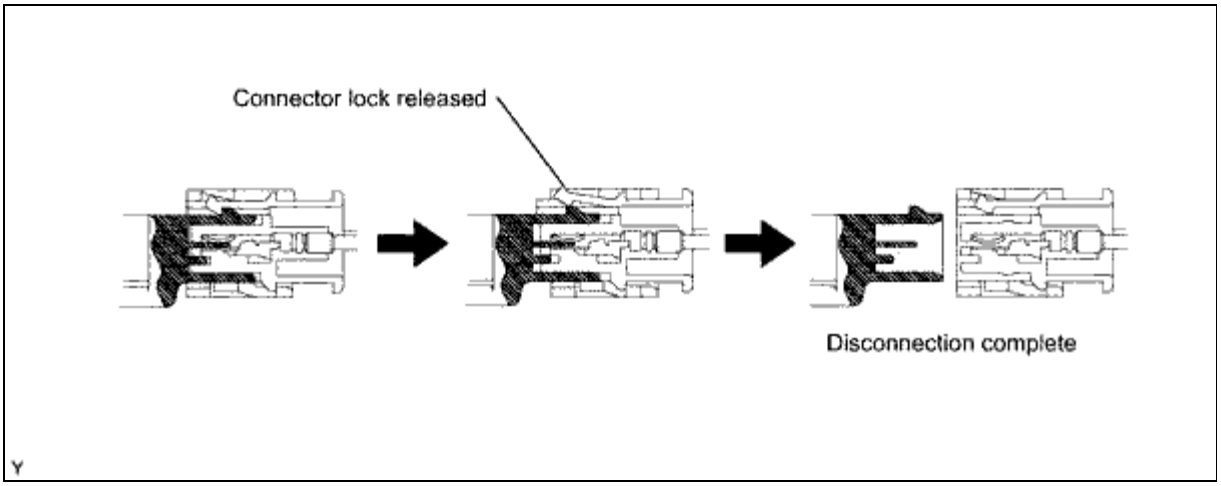
12. DISCONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR ASSEMBLY AND REAR AIRBAG SENSOR

(a) While holding both outer flank sides, slide the outer in the direction shown by the arrow.

(b) When the connector lock is released, the connectors are disconnected.

HINT:

Be sure to hold both outer flank sides. Holding the top and bottom sides will make disconnection difficult.



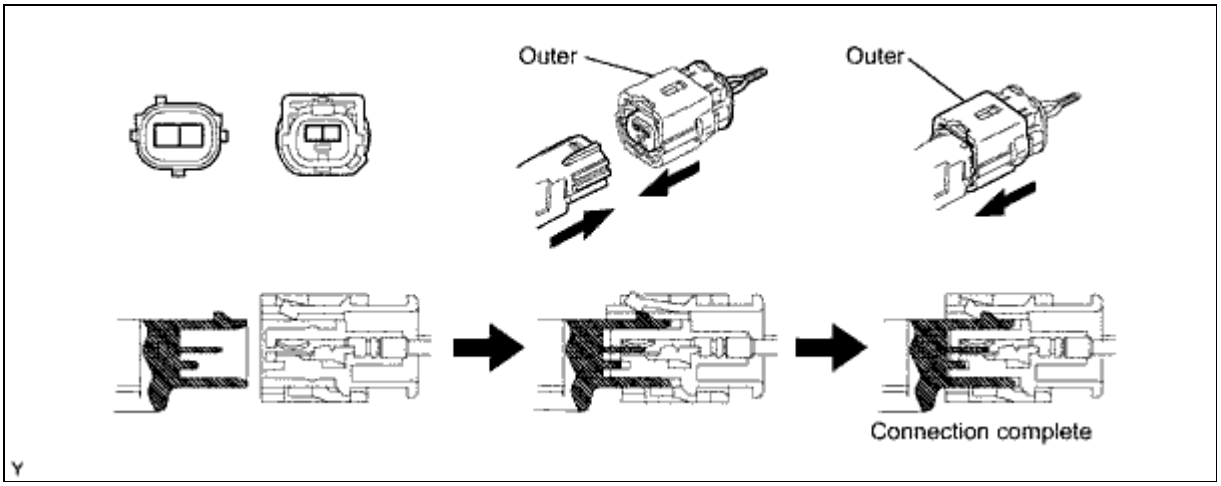
13. CONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR, SIDE AIRBAG SENSOR ASSEMBLY AND REAR AIRBAG SENSOR

(a) Connect the connector as shown in the illustration. (When locking, make sure that the outer returns to its original position and a click sound can be heard.)

HINT:

When connecting, the outer will slide. Be sure not to hold the outer while connecting, as it may result in an insecure fit.

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Last Modified: 11-13-2015	6.6 T	**Doc ID:** RM000000XFA0E8X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: PROBLEM SYMPTOMS TABLE; 2016 MY Tacoma [08/2015 -]		

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

SYMPTOM	SUSPECTED AREA	SEE PAGE
When ignition switch in ON position, SRS warning light occasionally comes on approximately 6 seconds after engine start.	SRS warning light circuit malfunction (SRS Warning Light Remains ON).	INFO
SRS warning light always comes on even when DTC not set.	SRS warning light circuit malfunction (SRS Warning Light Remains ON).	INFO
With ignition switch in ON position, SRS warning light does not come on.	SRS warning light circuit malfunction (SRS Warning Light does not Come On).	INFO
Although SRS warning light operates normally, neither DTCs normal system indication displayed.	TC and CG Terminal Circuit	INFO
Although terminals TC and CG not connected, DTC or normal system indication displayed.	TC and CG Terminal Circuit	INFO

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Last Modified: 11-13-2015	6.6 J	**Doc ID:** RM000000YE20N2X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: SRS Warning Light Remains ON; 2016 MY Tacoma [08/2015 -]		

SRS Warning Light Remains ON

DESCRIPTION

The SRS warning light is located on the combination meter assembly.

When the SRS condition is normal, the SRS warning light illuminates for approximately 6 seconds after the ignition switch is turned from off to ON, and then turns off automatically.

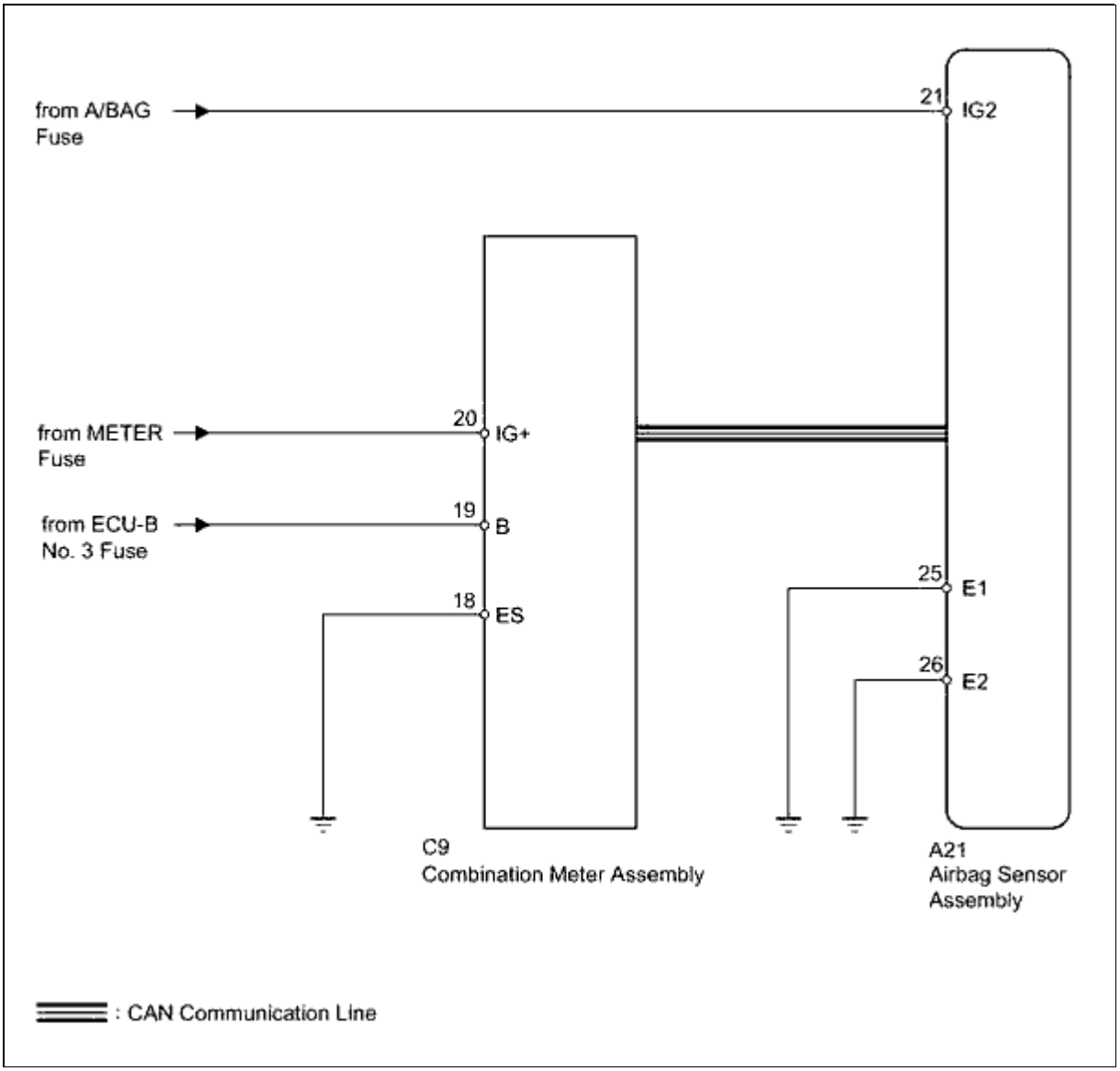
If there is a malfunction in the SRS, the SRS warning light illuminates or blinks to inform the driver of the problem. When terminals TC and CG of the DLC3 are connected, the SRS warning light blinks to indicate DTCs.

The airbag sensor assembly is equipped with a voltage-increase circuit (DC-DC converter) in case the source voltage decreases. When the battery voltage decreases, the voltage-increase circuit (DC-DC converter) boosts the SRS voltage up to the normal level.

Malfunctions relating to battery voltage decreases cause the SRS warning light to illuminate. However, no DTCs are recorded in the airbag sensor assembly. The SRS warning light turns off automatically when the source voltage returns to normal.

WIRING DIAGRAM

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INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
- After turning the ignition switch off, waiting time may be required before disconnecting the cable from the battery terminal. Therefore, make sure to read the disconnecting the cable from the battery terminal notice before proceeding with work INFO .

PROCEDURE

1.	**CHECK FOR DTC (CAN COMMUNICATION SYSTEM)**

(a) Turn the ignition switch to ON.

(b) Check the DTCs INFO .

OK:

DTC is not output.

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NG ▶ GO TO CAN COMMUNICATION SYSTEM

OK ▼

2.	**INSPECT BATTERY**

(a) Measure the voltage of the battery.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Battery	Always	11 to 14 V

NG ▶ **CHECK AND REPLACE BATTERY OR CHARGING SYSTEM**

OK ▼

3.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and combination meter assembly.

OK:

The connectors are properly connected.

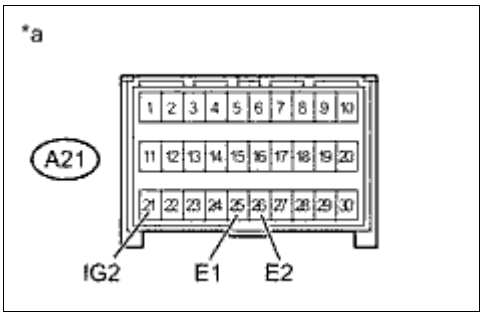
NG ▶ **CONNECT CONNECTORS PROPERLY**

OK ▼

4.	**CHECK HARNESS AND CONNECTOR (SOURCE VOLTAGE OF AIRBAG SENSOR ASSEMBLY)**

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(a) Disconnect the connector from the airbag sensor assembly.



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

(c) Turn the ignition switch to ON.

(d) Operate all components of the electrical system (defogger, wipers, headlights, heater blower, etc.).

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A21-21 (IG2) - A21-25 (E1)	Ignition switch ON	11 to 14 V
A21-21 (IG2) - A21-26 (E2)	Ignition switch ON	11 to 14 V

Text in Illustration

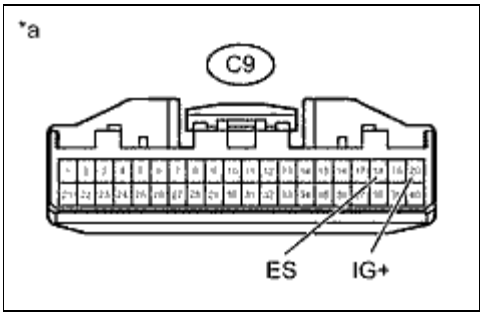
*a	Front view of wire harness connector (to Airbag Sensor Assembly)

NG ▶ **REPLACE HARNESS AND CONNECTOR**

OK ▼

5.	**CHECK HARNESS AND CONNECTOR (SOURCE VOLTAGE OF COMBINATION METER ASSEMBLY)**

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



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(b) Disconnect the connector from the combination meter assembly.

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

(d) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
C9-20 (IG+) - C9-18 (ES)	Ignition switch ON	11 to 14 V

Text in Illustration

*a	Front view of wire harness connector (to Combination Meter Assembly)

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

6.	**CHECK SRS WARNING LIGHT**

(a) Turn the ignition switch off.

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

(c) Connect the connector to the combination meter assembly.

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

(e) Turn the ignition switch to ON.

(f) Check the SRS warning light condition.

OK:

The SRS warning light turns off after the primary check period and comes on again after approximately 10 seconds.

HINT:

The primary check period lasts for approximately 6 seconds after the ignition switch is turned to ON.

NG ▶ **REPLACE COMBINATION METER ASSEMBLY**

OK ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

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Last Modified: 11-13-2015	6.6 J	**Doc ID:** RM000000YE30M2X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: SRS Warning Light does not Come ON; 2016 MY Tacoma [08/2015 -]		

SRS Warning Light does not Come ON

DESCRIPTION

INFO .

WIRING DIAGRAM

INFO .

INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
- After turning the ignition switch off, waiting time may be required before disconnecting the cable from the battery terminal. Therefore, make sure to read the disconnecting the cable from the battery terminal notice before proceeding with work INFO .

PROCEDURE

1.	**INSPECT BATTERY**

(a) Measure the voltage of the battery.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Battery	Always	11 to 14 V

NG ▶ **CHECK AND REPLACE BATTERY OR CHARGING SYSTEM**

OK ▼

2.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the combination meter assembly.

OK:

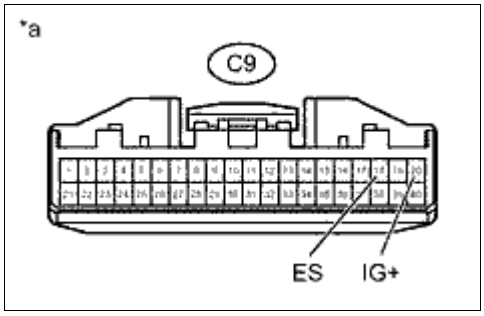
The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS PROPERLY**

OK ▼

3.	**CHECK HARNESS AND CONNECTOR (SOURCE VOLTAGE OF COMBINATION METER ASSEMBLY)**

(a) Turn the ignition switch off.



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

(c) Disconnect the connectors from the combination meter assembly.

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

(e) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
C9-20 (IG+) - C9-18 (ES)	Ignition switch ON	11 to 14 V

Text in Illustration

*a	Front view of wire harness connector (to Combination Meter Assembly)

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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OK

4.	**CHECK SRS WARNING LIGHT**

(a) Turn the ignition switch off.

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

(c) Connect the connector to the combination meter assembly.

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

(e) Turn the ignition switch to ON.

(f) Check the SRS warning light condition.

OK:

The SRS warning light turns off after the primary check period and comes on again after approximately 10 seconds.

HINT:

The primary check period lasts for approximately 6 seconds after the ignition switch is turned to ON.

NG ▶ **REPLACE COMBINATION METER ASSEMBLY**

OK ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000000XFC0HRX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: SYSTEM DESCRIPTION; 2016 MY Tacoma [08/2015 -]		

SYSTEM DESCRIPTION

1. SRS (SUPPLEMENTAL RESTRAINT SYSTEM) AIRBAG SYSTEM

(a) General Description

(1) The SRS airbag system consists of the following airbag and main components:

AIRBAG	ACCESS CAB MODEL	DOUBLE CAB MODEL
Driver Airbag	Standard	Standard
Front Passenger Airbag	Standard	Standard
Knee Airbag	Standard	Standard
Side Airbag	Standard	Standard
Curtain Shield Airbag	Standard	Standard

MAIN COMPONENTS	FEATURES
Airbag Sensor Assembly	• Controls airbag deployment • Activates dual stage control for driver and front passenger airbags • Detects malfunctions in SRS airbag system
Occupant Detection ECU	Determines front passenger seat occupant conditions through occupant classification sensors
Front Airbag Sensor	Detect intensity of frontal collisions though electrical deceleration sensor
Side Airbag Sensor Assembly	Detect intensity of side collision through electrical deceleration sensor
Rear Airbag Sensor	Detect intensity of side rear collision through electrical deceleration sensor
Occupant Classification Sensors	Detect occupant weight on front passenger seat
Seat Position Airbag Sensor	Detects driver seat position
Seat Belt Buckle Switches	Detect whether of not seat belt fastened
Airbag ON/OFF Indicator	Illuminates ON or OFF light to indicate front and side passenger airbag deployment availability
SRS Warning Light	Illuminates to indicate existence of malfunctions in SRS airbag system

2. AIRBAG DEPLOYMENT

(a) Front Collisions

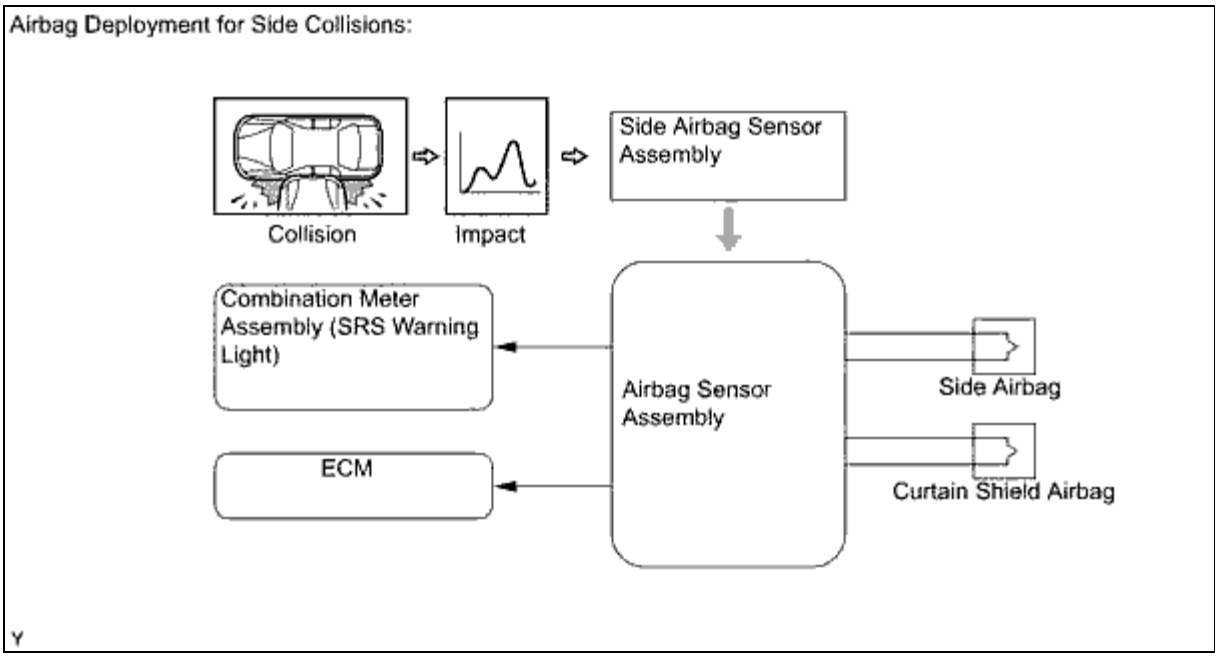
(1) The driver and front passenger airbags are in case of frontal collisions. These airbags deploy by dual stage control. In order to activate dual stage control, the airbag sensor assembly monitors the following information through the components shown in the table below:

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SEAT	INFORMATION	MODELS WITH SEPARATE SEAT
Driver	Intensity of Impact	Same As Left
Driver	Driver Seat Position	Same As Left
Driver	Seat Belt Position	Same As Left
Front Passenger	Intensity of Impact	Same As Left
Front Passenger	Occupant Weight	Four Occupant Classification Sensors
Front Passenger	Seat Belt Condition	Same As Left

(b) Side Collisions

(1) The side and curtain shield airbags are in case of side collisions. The side airbags are installed in the seat backs of the driver seat and the front passenger seat, and the curtain shield airbags are installed in the upper areas of the right and left center pillars. If a side airbag sensor assembly detects an impact, the airbag sensor assembly causes the side and curtain shield airbags to be deployed simultaneously.

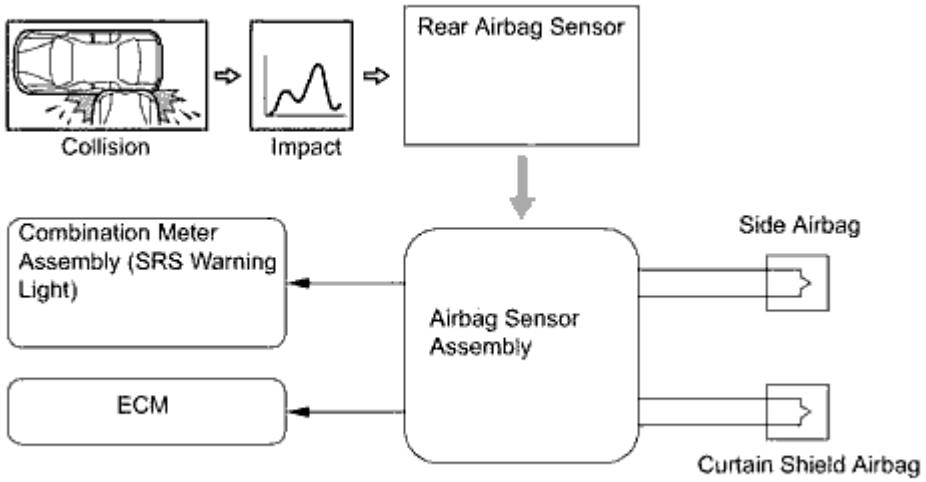


(c) Rear Side Collisions

(1) The side and curtain shield airbags are in case of rear side collisions. The side airbags are installed in the seat backs of the driver seat and the front passenger seat, and the curtain shield airbags are installed in the upper areas of the right and left center pillars. If a side airbag sensor assembly detects an impact, the airbag sensor assembly causes the side and curtain shield airbags to be deployed simultaneously.

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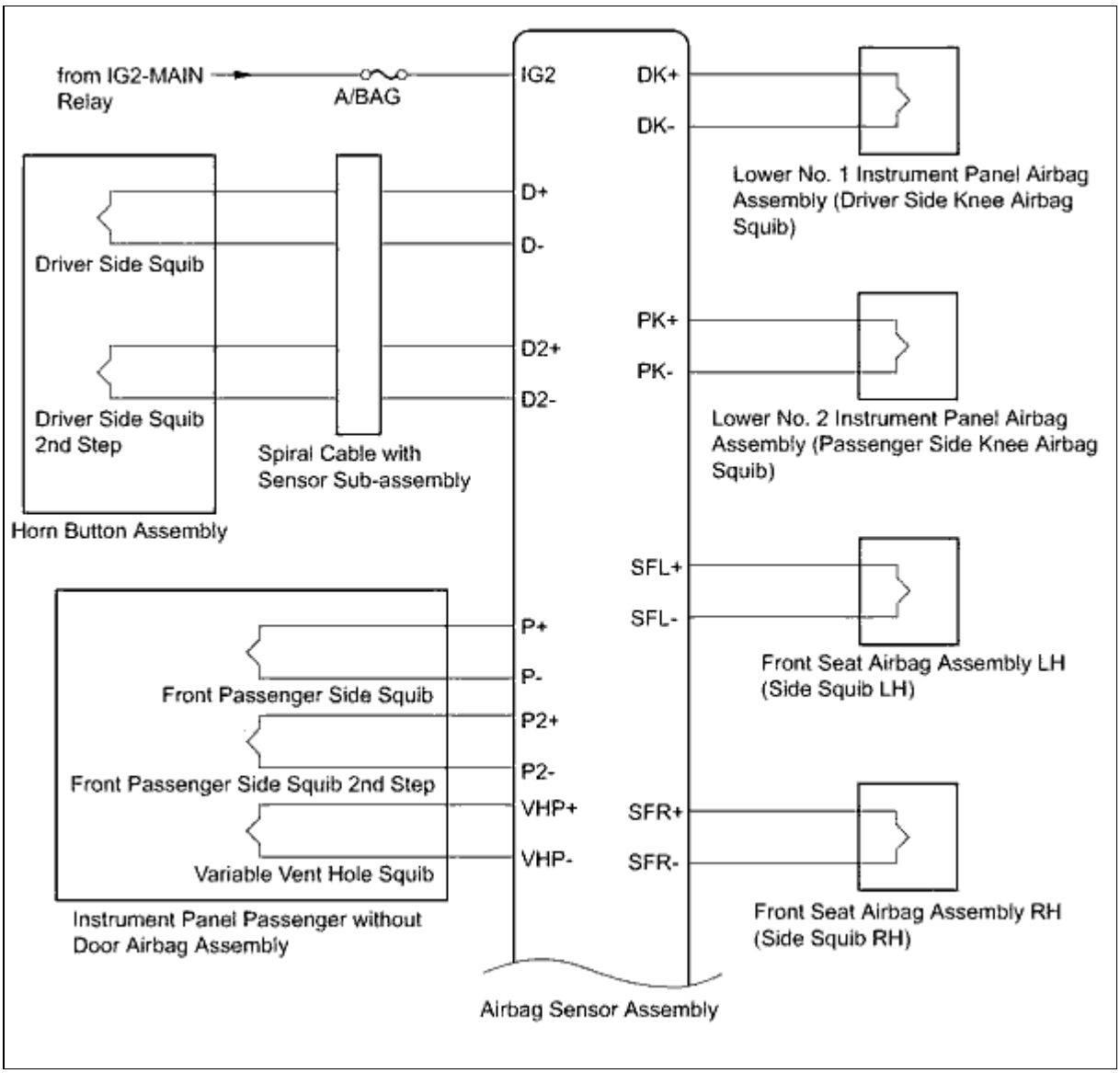
Airbag Deployment for Rear Side Collisions:



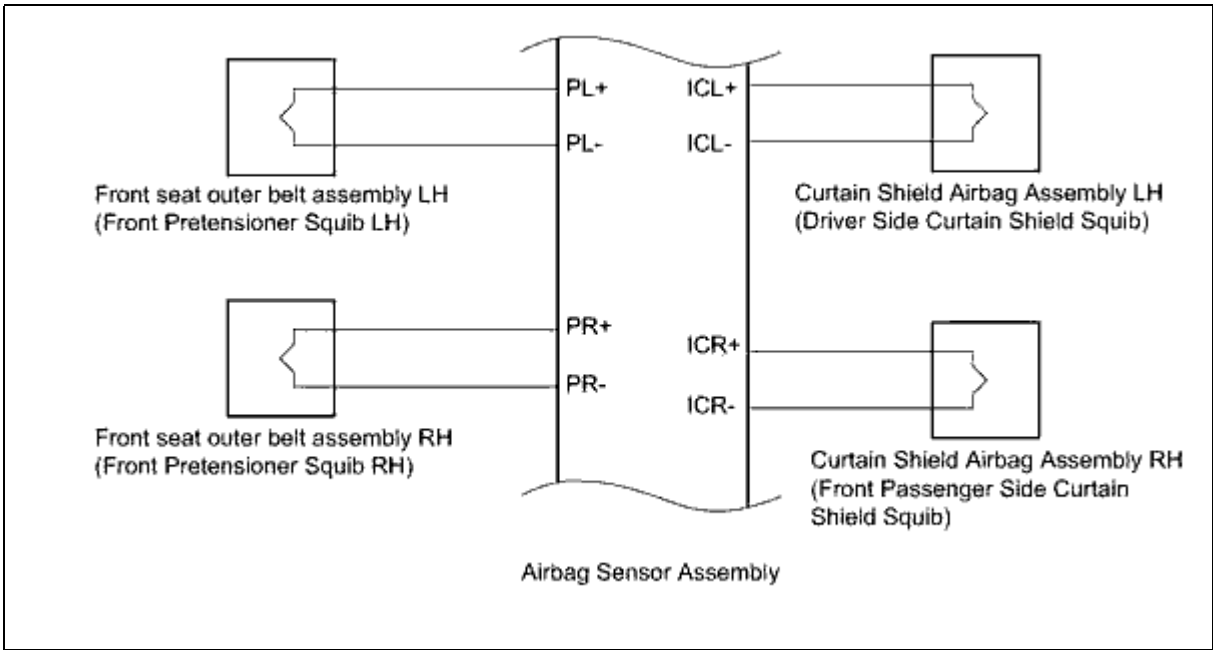
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Last Modified: 11-13-2015	6.6 U	**Doc ID:** RM000000XFG0I3X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: SYSTEM DIAGRAM; 2016 MY Tacoma [08/2015 -]		

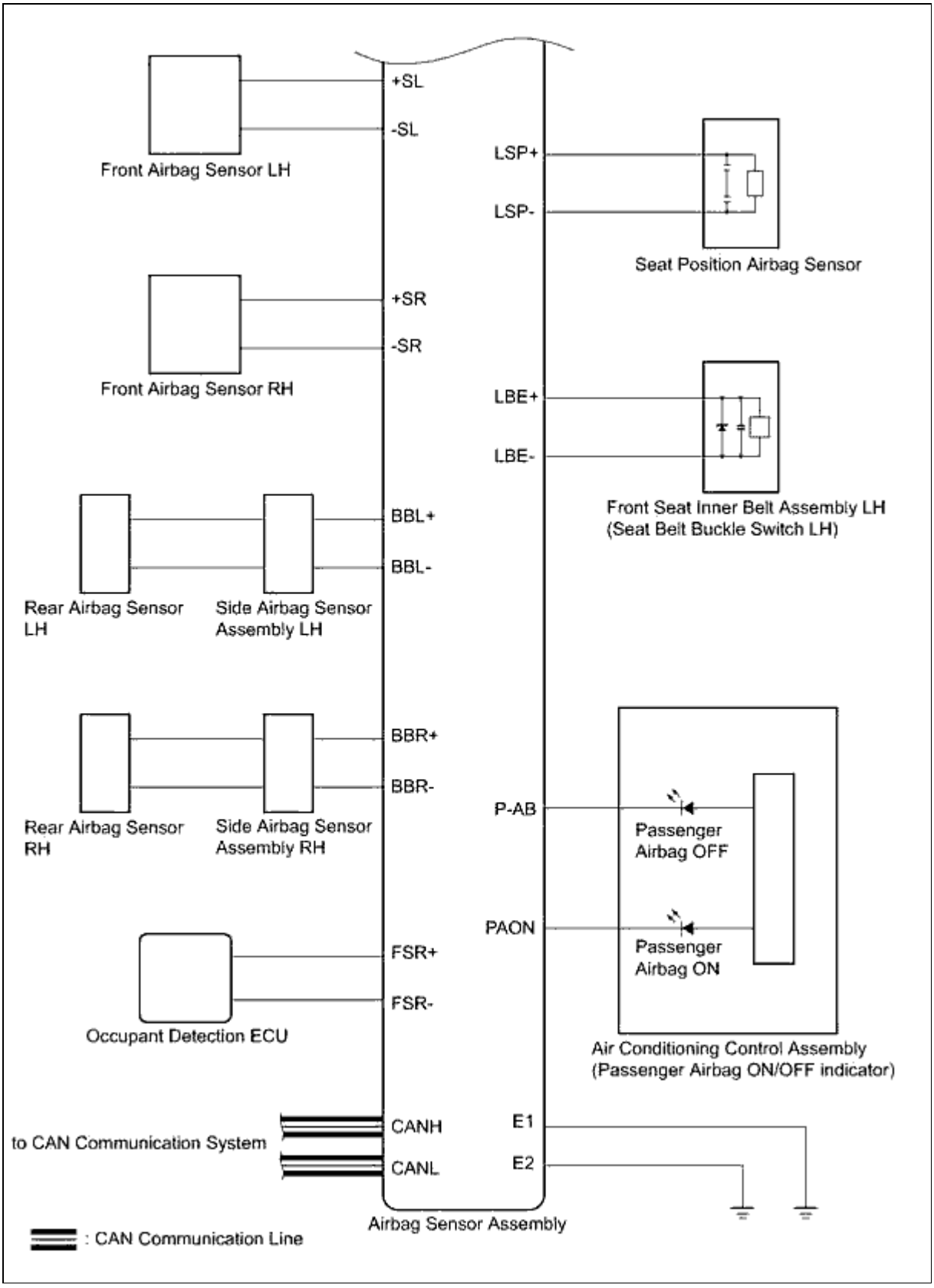
SYSTEM DIAGRAM



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TRANSMITTING ECU (TRANSMITTER)	RECEIVING ECU	SIGNAL	COMMUNICATION METHOD
Airbag Sensor Assembly	ECM	Crash detection signal	CAN

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TRANSMITTING ECU (TRANSMITTER)	RECEIVING ECU	SIGNAL	COMMUNICATION METHOD
Airbag Sensor Assembly	Combination Meter Assembly	• SRS warning light ON demand signal • Diagnosis signal (DTC)	CAN
Combination Meter Assembly	Airbag Sensor Assembly	Vehicle speed signal	CAN
ECM	Airbag Sensor Assembly	• Engine speed signal • Accelerator opening angle information • Accelerator opening angle signal • Shift position signal • Test mode signal • Stop signal	CAN





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Last Modified: 11-13-2015	6.6 J	**Doc ID:** RM000000XFB057X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: TC and CG Terminal Circuit; 2016 MY Tacoma [08/2015 -]		

TC and CG Terminal Circuit

DESCRIPTION

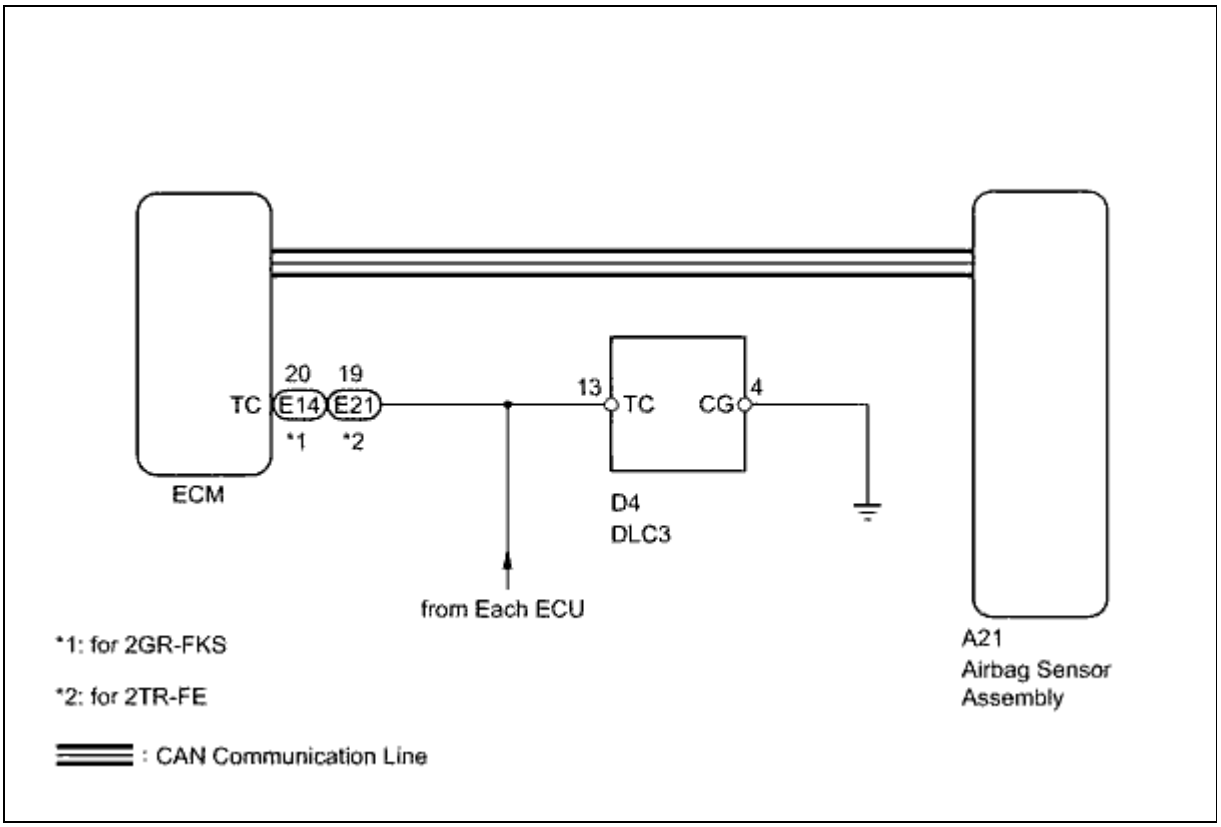
DTC output mode is set by connecting terminals TC and CG of the DLC3.

The DTCs are displayed by blinking the SRS warning light.

HINT:

- Make sure that DTCs which relate to the CAN communication system are not output. If any of these DTCs are output, check the CAN communication system INFO .
- The DTC output mode signal is transmitted through the CAN to an ECU including the airbag sensor assembly. Thus if no systems enter DTC output mode, the ECM may have a malfunction.
- When a warning light keeps blinking, a short to ground in the wiring of terminal TC of the DLC3 or an internal ground short in each ECU is suspected.

WIRING DIAGRAM

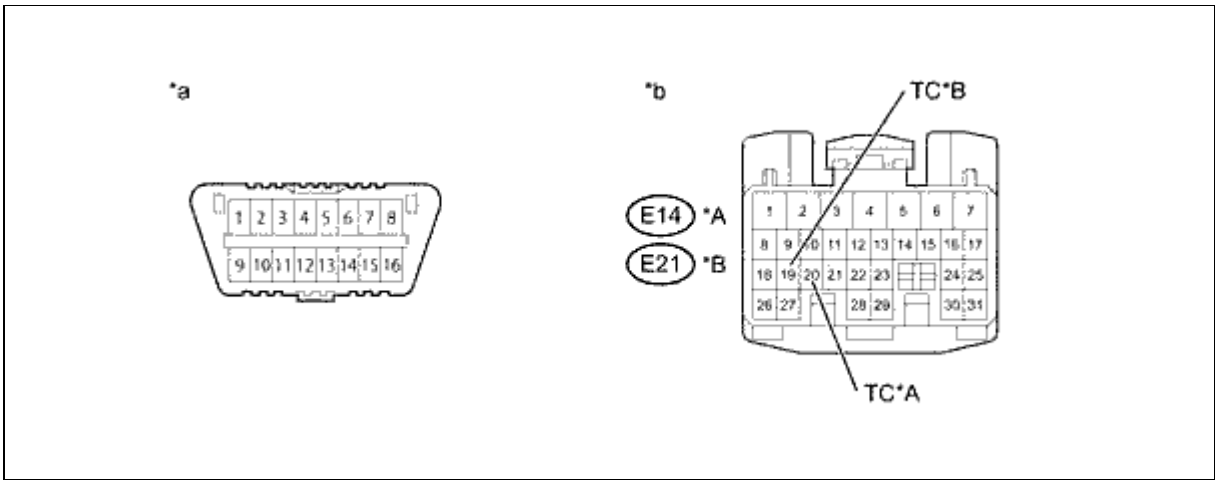


INSPECTION PROCEDURE

PROCEDURE

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1.	**CHECK HARNESS AND CONNECTOR (DLC3 - ECM)**



Text in Illustration

*A	for 2GR-FKS	*B	for 2TR-FE
*a	DLC3	*b	Front view of wire harness connector (to ECM)

(a) Turn the ignition switch off.

(b) Disconnect the connector from the ECM.

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

Standard Resistance:

for 2GR-FKS

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D4-13 (TC) - E14-20 (TC)	Always	Below 1 Ω

for 2TR-FE

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D4-13 (TC) - E21-19 (TC)	Always	Below 1 Ω

NG ▶ **REPAIR OR REPLACE HARNESS, ECU OR CONNECTOR**

OK ▼

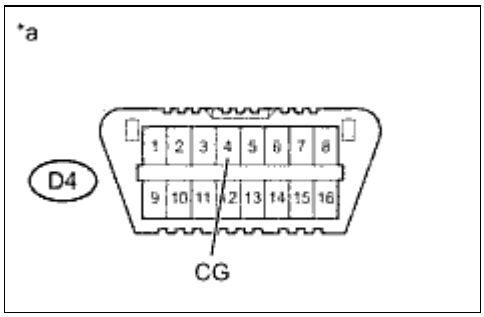
2.	**CHECK HARNESS AND CONNECTOR (CG OF DLC3 - BODY GROUND)**

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D4-4 (CG) - Body ground	Always	Below 1 Ω



Text in Illustration

*a	DLC3

NG ▶ **REPAIR OR REPLACE HARNESS, ECU OR CONNECTOR**

OK ▼

3.	**CHECK HARNESS AND CONNECTOR (TC CIRCUIT OF ECM)**

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

Standard Resistance:

for 2GR-FKS

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E14-20 (TC) - Body ground	Always	1 MΩ or higher

for 2TR-FE

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E21-19 (TC) - Body ground	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE HARNESS, ECU OR CONNECTOR**

OK ▼

4.	**CHECK DTC**

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SST: 09843-18040

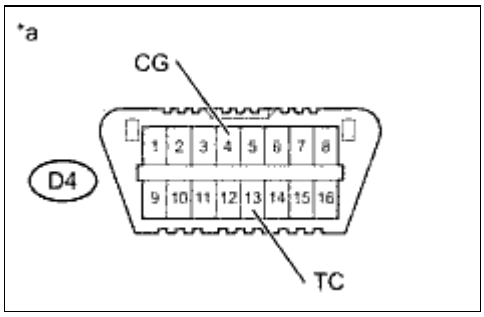
(a) Using SST, connect terminals TC and CG of the DLC3.

NOTICE:

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

Text in Illustration

*a	DLC3



Result

RESULT	PROCEED TO
DTC output mode is set in each ECU.	A
DTC output mode is not set in ECM. (for 2GR-FKS)	B
DTC output mode is not set in ECM. (for 2TR-FE)	C
DTC output mode is not set in airbag sensor assembly.	D

B ▶ **REPLACE ECM**

C ▶ **REPLACE ECM**

D ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

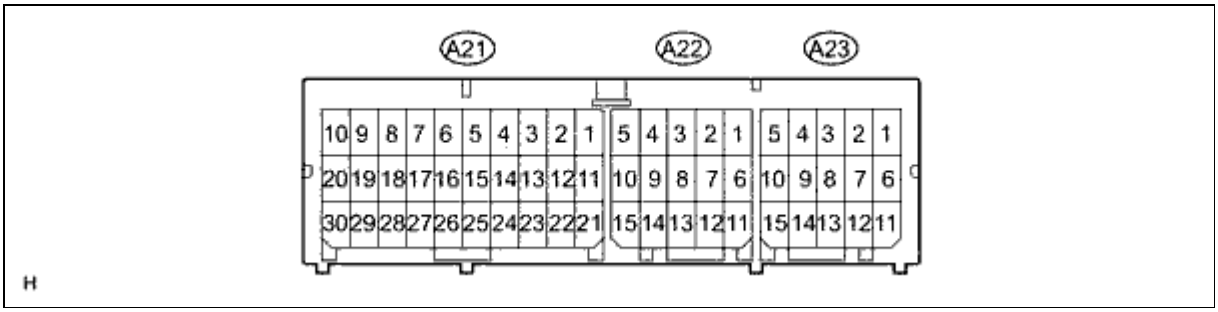
A ▶ **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 U	**Doc ID:** RM000000XF90H2X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: TERMINALS OF ECU; 2016 MY Tacoma [08/2015 -]		

TERMINALS OF ECU

1. AIRBAG SENSOR ASSEMBLY



TERMINAL NO.	TERMINAL SYMBOL	DESTINATION
A21-1	P2+	Instrument panel passenger without door airbag assembly (Front passenger side squib 2nd step)
A21-2	P2-	Instrument panel passenger without door airbag assembly (Front passenger side squib 2nd step)
A21-3	P-	Instrument panel passenger without door airbag assembly (Front passenger side squib)
A21-4	P+	Instrument panel passenger without door airbag assembly (Front passenger side squib)
A21-5	D+	Horn button assembly (Driver side squib)
A21-6	D-	Horn button assembly (Driver side squib)
A21-7	D2-	Horn button assembly (Driver side squib 2nd step)
A21-8	D2+	Horn button assembly (Driver side squib 2nd step)
A21-9	DK+	Lower No. 1 instrument panel airbag assembly (Driver side knee airbag squib)
A21-10	DK-	Lower No. 1 instrument panel airbag assembly (Driver side knee airbag squib)
A21-11	VHP+	Instrument panel passenger without door airbag assembly (Variable vent hole squib)
A21-12	VHP-	Instrument panel passenger without door airbag assembly (Variable vent hole squib)
A21-13	CANH	CAN
A21-17	P-AB	Air conditioning control assembly (Passenger airbag ON/OFF indicator)
A21-19	PK+	Lower No. 2 instrument panel airbag assembly (Passenger side knee airbag squib)
A21-20	PK-	Lower No. 2 instrument panel airbag assembly (Passenger side knee airbag squib)

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TERMINAL NO.	TERMINAL SYMBOL	DESTINATION
A21-21	IG2	IGN fuse (Power Source)
A21-22	CANL	CAN
A21-23	PAON	Air conditioning control assembly (Passenger airbag ON/OFF indicator)
A21-25	E1	Ground
A21-26	E2	Ground
A21-27	-SR	Front airbag sensor RH
A21-28	-SL	Front airbag sensor LH
A21-29	+SR	Front airbag sensor RH
A21-30	+SL	Front airbag sensor LH
A22-1	PL-	Front seat outer belt assembly LH (Front pretensioner squib LH)
A22-2	PL+	Front seat outer belt assembly RH (Front pretensioner squib RH)
A22-6	ICL-	Curtain shield airbag assembly LH (Driver side curtain shield squib)
A22-7	ICL+	Curtain shield airbag assembly LH (Driver side curtain shield squib)
A22-8	BBL+	Side airbag sensor assembly LH
A22-9	SFL+	Front seat airbag assembly LH (Side squib LH)
A22-10	SFL-	Front seat airbag assembly LH (Side squib LH)
A22-11	LBE+	Front seat inner belt assembly LH
A22-12	LBE-	Front seat inner belt assembly LH
A22-13	LSP-	Seat position airbag sensor
A22-14	LSP+	Seat position airbag sensor
A22-15	BBL-	Side airbag sensor assembly LH
A23-4	PR+	Front seat outer belt assembly RH (Front pretensioner squib RH)
A23-5	PR-	Front seat outer belt assembly RH (Front pretensioner squib RH)
A23-6	SFR-	Front seat airbag assembly RH (Side squib RH)
A23-7	SFR+	Front seat airbag assembly RH (Side squib RH)
A23-8	BBR+	Side airbag sensor assembly RH
A23-9	ICR+	Curtain shield airbag assembly RH (Front Passenger side curtain shield squib)
A23-10	ICR-	Curtain shield airbag assembly RH (Front Passenger side curtain shield squib)
A23-11	BBR-	Side airbag sensor assembly RH
A23-12	FSR+	Occupant detection ECU
A23-13	FSR-	Occupant detection ECU

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000005PSD00FX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: AIRBAG SYSTEM: VEHICLE CONTROL HISTORY; 2016 MY Tacoma [08/2015 -]		

VEHICLE CONTROL HISTORY

1. Function Overview

(a) The vehicle control history is a function that records control data (record data) when triggered by specific vehicle behavior. When DTCs are not detected according to information provided by customers, by checking the vehicle control history, it is possible to gain a quantitative grasp on diagnostic information and the history can be used as a reference to proceed with malfunction diagnosis.

(b) The vehicle control history is recorded in different storage areas designated by trigger group and it is possible to save up to 140 items in total. If storage space runs out, the data is cleared from the oldest data first for the respective storage area and new data is recorded.

(c) Each trigger receives time information from the main body ECU (time elapsed since ignition switch to ON) or the navigation system* (absolute time).

*: Only for factory-installed navigation systems (factory option)

(d) Data is recorded in the airbag sensor assembly EEPROM. Even if the negative (-) battery terminal is disconnected, the vehicle control history does not disappear. Also, data cannot be cleared using the Techstream.

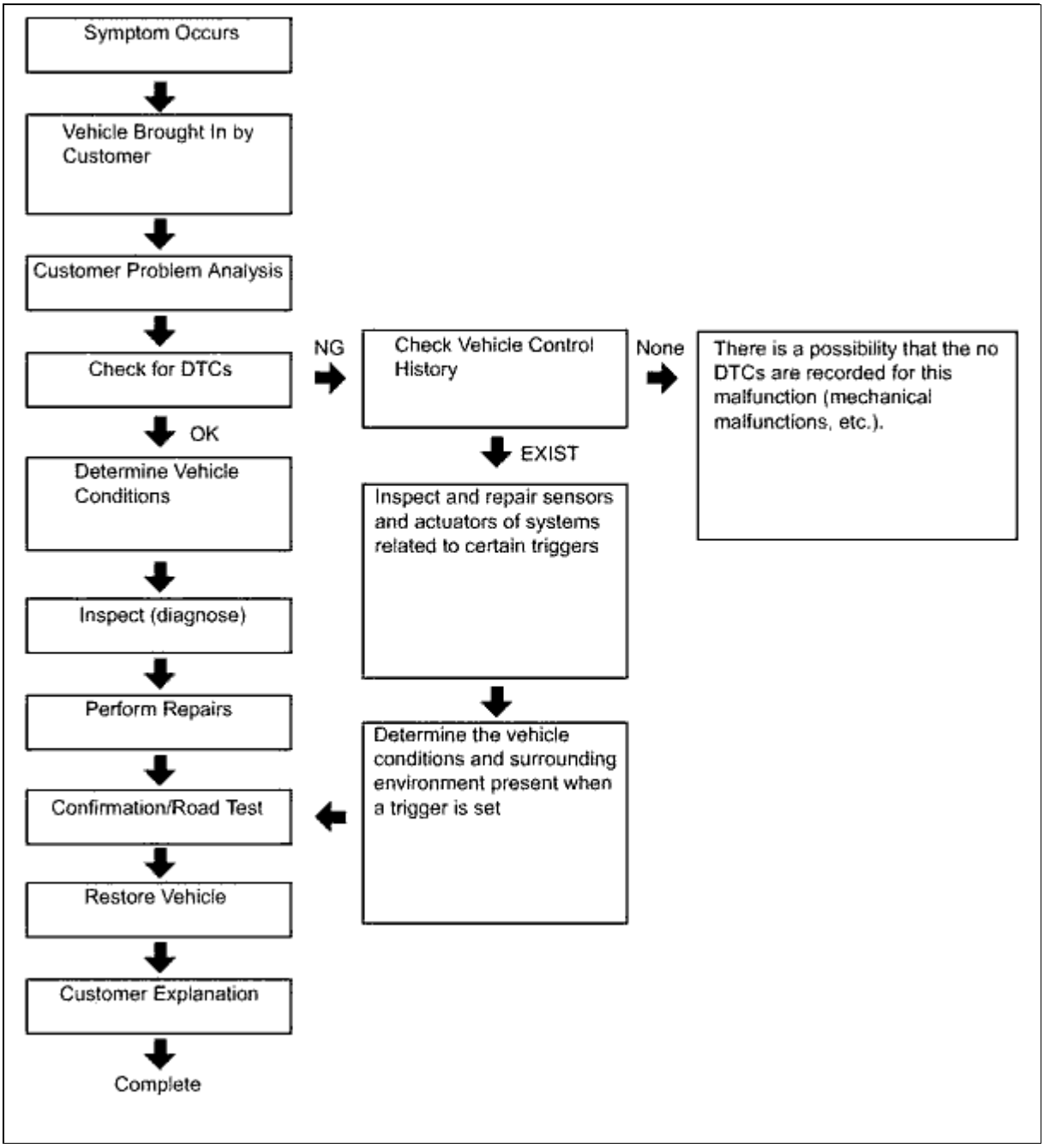
2. Notices for Use

(a) Vehicle control history is used as support information during malfunction diagnosis for each system and cannot be used to determine the actual cause of a problem.

(b) Judgment of each trigger is based on signals from sensors and actuators (recognition value of each ECU). Therefore, make sure to inspect and adjust systems related to each trigger when using the vehicle control history.

Basic Flow

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3. Trigger Item

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to ON.

(c) Using the Techstream, enter the following menus: Body Electrical / SRS Airbag / Utility / Vehicle Control History.

Trigger Item Chart

RELATED SYSTEM	STORAGE AREA GROUP (STORAGE LIMIT)	TRIGGER ITEM NAME	TRIGGER DESCRIPTION	REMARKS
Engine	Area 1	Accelerator pedal	An accelerator high position signal	-

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RELATED SYSTEM	STORAGE AREA GROUP (STORAGE LIMIT)	TRIGGER ITEM NAME	TRIGGER DESCRIPTION	REMARKS
control/Hybrid control/Automatic transmission	(Approximately 60 times)	opening angle signal is high during low speed	condition continues for a certain period of time while in the low speed range.	
		Accelerator high position in mid to high speed	An accelerator high position signal condition continues for a certain period of time while in the mid to high speed range.	-
	Area 2 (Approximately 12 times)	Accelerator pedal opening angle signal is high immediately after brake pedal is released	An accelerator high position signal is received while in the low speed range after there is a change from brake input condition to brake and accelerator pedal released condition.	-
	Area 3 (Approximately 40 times)	Accelerator pedal opening angle is medium or higher immediately after shifting to R	An accelerator mid to high position signal is received while in the low speed range immediately after the shift lever is moved to R during an accelerator low position signal condition.	Excluding hybrid vehicles
		Accelerator pedal opening angle is medium or higher immediately after shifting to forward position	An accelerator mid to high position signal is received while in the low speed range immediately after the shift lever is moved to a forward position (a position other than P, N or R) during an accelerator low position signal condition.	Excluding hybrid vehicles
		Accelerator pedal opening angle is medium or higher immediately after shifting to driving position	An accelerator mid to high position signal is received while in the low speed range immediately after the shift lever is moved to a driving position (a position other than P or N) during an accelerator low position signal condition.	Only hybrid vehicles
		R position signal input during medium or higher accelerator signal input	An accelerator mid to high position signal condition while the shift lever is in R continues for a certain period of time after the shift lever is moved to R during an accelerator mid to high position signal condition.	Excluding hybrid vehicles
Engine control/Hybrid control/Automatic transmission	Area 3 (Approximately 40 times)	Forward position signal input during medium or higher accelerator signal	An accelerator mid to high position signal condition continues for a certain period of time while in a forward position (a position	Excluding hybrid vehicles

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RELATED SYSTEM	STORAGE AREA GROUP (STORAGE LIMIT)	TRIGGER ITEM NAME	TRIGGER DESCRIPTION	REMARKS
		input	other than P, N or R) after shifting to a forward position (a position other than P, N, or R) during an accelerator mid to high position signal condition.	
		Driving position signal input during medium or higher accelerator signal input	The shift lever is moved to a driving position (a position other than P or N) during an accelerator mid to high position signal condition.	Only hybrid vehicles
		Accelerator signal and brake signal input simultaneously	An accelerator mid to high position signal condition and brake input condition simultaneously continue for a certain period of time.	-
		Medium or higher accelerator signal input immediately after switching to D or R	The shift lever is moved to D (or R) during an accelerator low signal condition after the shift lever is moved to R (or D). After that, an accelerator mid to high position signal is received.	-
		Medium or higher accelerator signal input during N	An accelerator mid to high position signal is received while in a low speed range after the shift lever is moved to N.	-
Brake control	Area 4 (Approximately 5 times)	VSC operation history	When VSC operation starts	Only for vehicles with VSC
		TRC operation history	When TRC operation starts	Only for vehicles with TRC
		ABS operation history	When ABS operation starts	-
	Area 5 (Approximately 4 times)	Sudden braking history	Detects forward and backward acceleration above a certain level.	Only for vehicles with VSC
		Sudden turning history	Detects lateral acceleration above a certain level.	Only for vehicles with VSC
Pre-collision	Area 6 (Approximately 4 times)	PCS operation history (warning buzzer operation)	PCS (warning buzzer) operates.	Only for vehicles with PCS

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RELATED SYSTEM	STORAGE AREA GROUP (STORAGE LIMIT)	TRIGGER ITEM NAME	TRIGGER DESCRIPTION	REMARKS
		PCS operation history (warning brake operation)	PCS (brake alarm) operates.	Only for vehicles with PCS (w/ Driver Monitor Camera)
		PCS operation history (pre-collision brake assist operation)	PCS (pre-collision brake assist) operates.	Only for vehicles with PCS
		PCS operation history (prior brake operation)	PCS (preliminary braking) operates.	Only for vehicles with PCS
		PCS operation history (pre-collision brake operation)	PCS (pre-collision brake) operates.	Only for vehicles with PCS
		PCS actuation history (Pre-collision Seat Belt operated)	PCS (pre-collision seat belt) operates.	Only for vehicles with PCS
		PCS operation history (when acceleration above certain amount is detected)	Forward and backward acceleration above a certain amount is detected.	Only for vehicles with PCS
Cruise control/Lane departure alert/Lane-keeping assist		Torque sensor signal above certain amount is detected during LKA/LDA operation	When the LKA/LDA system is ON, a torque sensor signal above a certain amount is detected.	Only for vehicles with LKA/LDA (w/ Steering Control)
	Area 7 (Approximately 15 times)	Accelerator pedal opening angle signal is high during cruise control operation	An accelerator high position signal condition continues for a certain period of time during cruise control.	Only for vehicles with cruise control

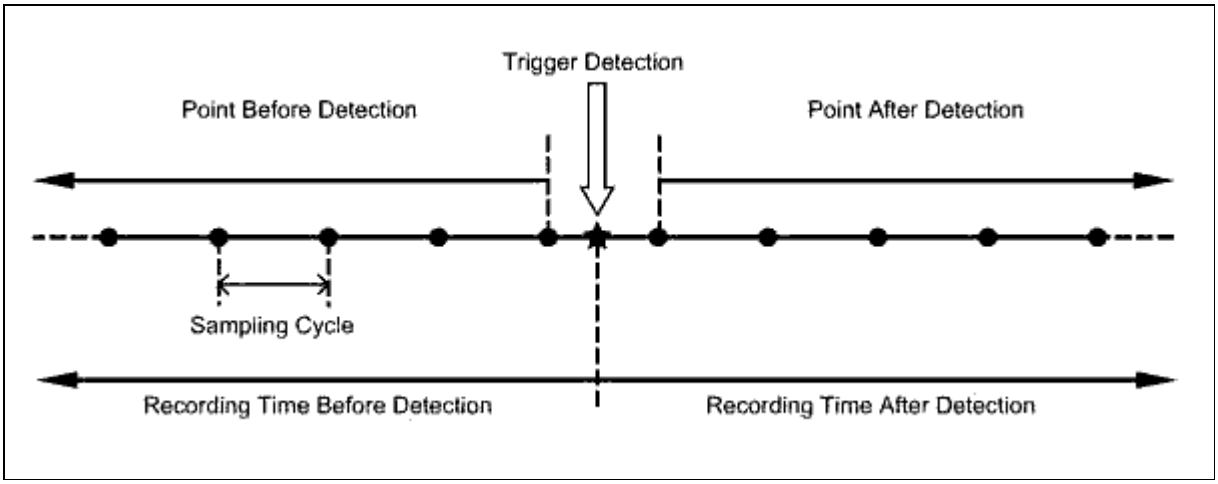
4. Record Data Items

(a) When a trigger is detected, the vehicle status (ECU data) before and after the trigger are simultaneously recorded as record data.

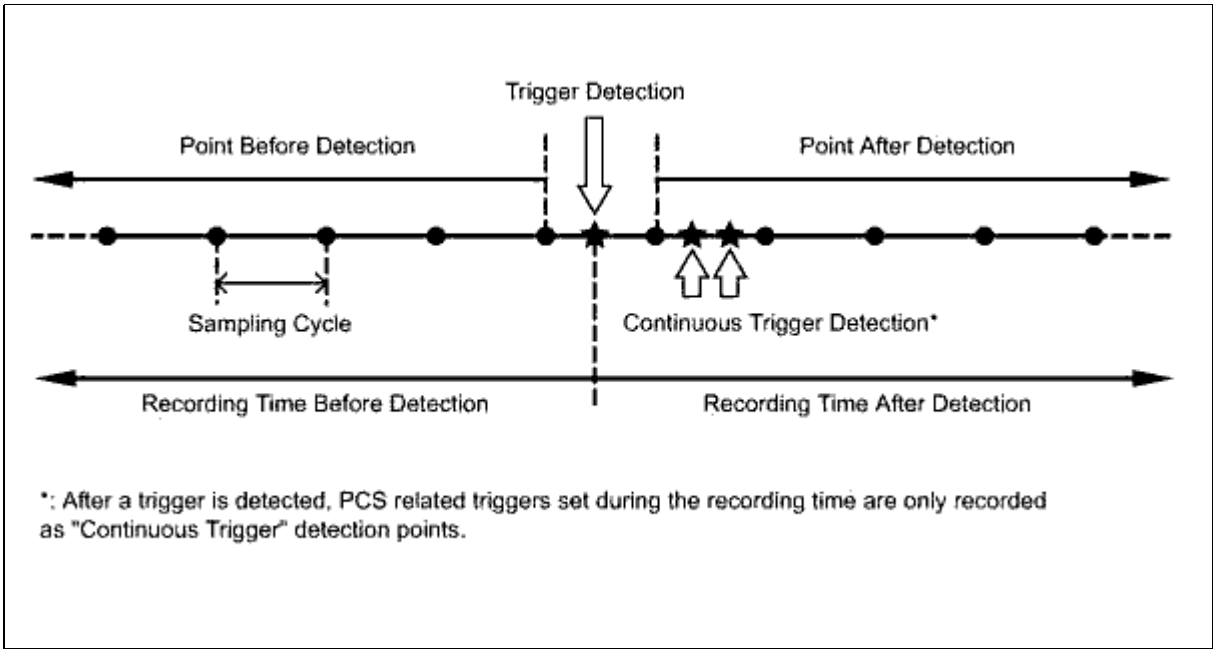
(b) Recording time and record data differ for each trigger.

When not "PCS Operation History"

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When "PCS Operation History"



*: After a trigger is detected, PCS related triggers set during the recording time are only recorded as "Continuous Trigger" detection points.

Record Data Record Specifications

TRIGGER ITEM		RECORD DATA				
		BEFORE DETECTION		AFTER DETECTION		SAMPLING CYCLE (SEC.)
ID NO.	ITEM	RECORDING TIME (SEC.)	NUMBER OF POINTS	RECORDING TIME (SEC.)	NUMBER OF POINTS	
2	Accelerator pedal opening angle signal is high during low speed	7.5	15	7.5	16	0.5
3	Accelerator high position in mid to high speed	7.5	15	7.5	16	0.5
4	Accelerator pedal opening angle signal is high immediately after brake pedal is released	7.5	15	7.5	16	0.5
5-1	Accelerator pedal opening angle is medium or higher immediately after	5	10	5	11	0.5

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TRIGGER ITEM		RECORD DATA				
		BEFORE DETECTION		AFTER DETECTION		SAMPLING CYCLE (SEC.)
ID NO.	ITEM	RECORDING TIME (SEC.)	NUMBER OF POINTS	RECORDING TIME (SEC.)	NUMBER OF POINTS	
	shifting to R					
5-2	Accelerator pedal opening angle is medium or higher immediately after shifting to forward position					
5-3	Accelerator pedal opening angle is medium or higher immediately after shifting to driving position					
6-1	R position signal input during medium or higher accelerator signal input	5	10	5	11	0.5
6-2	Forward position signal input during medium or higher accelerator signal input					
6-3	Driving position signal input during medium or higher accelerator signal input					
8	Accelerator signal and brake signal input simultaneously	5	10	5	11	0.5
9	Medium or higher accelerator signal input immediately after switching to D or R	5	10	5	11	0.5
10	Medium or higher accelerator signal input during N	5	10	5	11	0.5
12	VSC operation history	5	34	5	35	0.15
13	TRC operation history	5	34	5	35	0.15
14	ABS operation history	5	34	5	35	0.15
15	Sudden braking history	5	34	5	35	0.15
16	Sudden turning history	5	34	5	35	0.15
17	Accelerator pedal opening angle signal is high during cruise control operation	5	10	5	11	0.5
18-1	PCS operation history (warning buzzer operation)	5	10	5	11	0.5
18-2	PCS operation history (warning brake operation)					
18-3	PCS operation history (pre-collision brake assist operation)					
18-4	PCS operation history (prior brake operation)					

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TRIGGER ITEM		RECORD DATA				
		BEFORE DETECTION		AFTER DETECTION		SAMPLING CYCLE (SEC.)
ID NO.	ITEM	RECORDING TIME (SEC.)	NUMBER OF POINTS	RECORDING TIME (SEC.)	NUMBER OF POINTS	
18-5	PCS operation history (pre-collision brake operation)					
18-6	PCS operation history (pre-collision seat belt operation)					
18-7	PCS operation history (when acceleration above certain amount is detected)					
20	Torque sensor signal above certain amount is detected during LKA/LDA operation	8	40	0	1	0.2

Record Data Chart

ITEM NAME	TRIGGER ID NO.
Vehicle Speed	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Accelerator Opening Ratio	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Engine RPM Data	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Cruise Control	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Shift Position Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Brake SW	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Brake Oil Pressure	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Yaw Rate Sensor Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Longitudinal G Sensor Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Lateral G Sensor Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Throttle Opening Ratio	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Command Value of Fuel Injection Amount	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20

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ITEM NAME	TRIGGER ID NO.
Steering Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
HV Recognition Flag	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Diesel Flag	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Sensor Type Identification (Security)	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Sensor Type Identification (G Sensor Layout)	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Sensor Type Identification (G Sensor)	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Sensor Type Identification (Yaw Rate Sensor)	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Yaw G Sensor Installation Information	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7, 20
Shift Gear	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
PWR Mode	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
ECO Mode	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Integrated Sport Mode Indicator	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
SNOW Mode	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Valid/Invalid of Driving Mode	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
VSC OFF Lamp	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
TRC OFF Lamp	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Valid/Invalid of TRC/VSC OFF Lamp	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
EV Mode	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Valid/Invalid of EV Mode	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Integrated Sport Mode Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Engine Load Factor	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10
READY Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 12, 13, 15, 16
Gear Position Signal	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 15, 16
Turbine RPM/Input Shaft RPM	2, 3, 4, 5-1, 5-2, 5-3, 6-1, 6-2, 6-3, 8, 9, 10, 15, 16
Under VSC Control	12, 13, 14, 15, 16
Under ABS Control	12, 13, 14, 15, 16
Under VDM Control	12, 13, 14, 15, 16
Under TRC Operation Flag	12, 13, 14, 15, 16
FR Wheel Speed	12, 13, 14, 15, 16

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ITEM NAME	TRIGGER ID NO.
FL Wheel Speed	12, 13, 14, 15, 16
RR Wheel Speed	12, 13, 14, 15, 16
RL Wheel Speed	12, 13, 14, 15, 16
Trigger Judgment Information	17, 20
Driving Force Demand Judgment Flag	17
DSS Judgment Flag	17
Cruise Control Res/ Accel SW	17
Cruise Control Set/ Coast SW	17
Cruise Control Cancel SW	17
Cruise Control Brake SW	17
Cruise Control D Signal	17
Cruise Control Main SW	17
Cruise Control Set Speed	17
Vehicle Speed (during Cruise Control)	17
Cruise Control Request Value	17
ACC Target Distance	17
ACC Target Condition	17
ACC Relative Speed	17
PCS Reception Data Invalid Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
ALM Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
ABK Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PBA Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
FPB Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PB Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
Extension Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PSB Request Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PCS READY Flag	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PCS Display (PSB Communication)	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PCS Display (System Fault)	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PCS Display (Radar Dirt)	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
PCS Display (Temporarily not available)	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
Target Distance	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
Target Relative Velocity	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7

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ITEM NAME	TRIGGER ID NO.
Target Lateral Position	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
Target Number	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
Detection of Certain Level of Acceleration	18-1, 18-2, 18-3, 18-4, 18-5, 18-6, 18-7
LKA DDR Trigger Signal	20
Invalid of LKA DDR Data	20
Steering Wheel Release Condition	20
Steering Operation of LKA	20
Steering Operation of LDW	20
LKA Control Condition (EPS Control)	20
LKA Control Condition	20
Turn Signal Operation	20
EPS Torque Sensor Value	12, 13, 14, 15, 16, 20

Record Data Item Chart

ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
Vehicle Speed	Displays the vehicle speed.	0 to 200 km/h	-
Accelerator Opening Ratio	Displays the accelerator position sensor opening angle.	0 to 100%	-
Engine RPM Data	Displays the engine speed.	0 to 12800 rpm	-
Cruise Control	Displays whether the cruise control is operating.	ON: Operating OFF: Not Operating/Unequipped Vehicles	Unequipped vehicles display OFF.
Shift Position Signal	Displays the shift lever position.	N / D / R / P / 5 / 4 / 3 / 2 / LO / B / SD / Sequential Mode / Not Specified	-
Brake SW	Displays the stop light switch status.	ON: Stop light illuminated OFF: Not Illuminated	-
Brake Oil Pressure	Displays the fluid pressure inside the master cylinder.	0 to 12.144 MPa	-
Yaw Rate Sensor Signal	Displays the angular velocity when turning.	-61 to 61 deg/s	Becomes a positive value when turning left.
Longitudinal G Sensor Signal	Displays the front and rear acceleration	-8.9725 to 8.9725 m/s ^{2}	• Acceleration becomes a positive value.

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ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
	detected by the sensor.		• Displays "INVALID" if below the smallest value.
Lateral G Sensor Signal	Displays the right and left acceleration detected by the sensor.	-8.9725 to 8.9725 m/s ^{2}	Becomes a positive value when turning left.
Throttle Opening Ratio	Displays the engine throttle opening amount.	0 to 127%	Only displayed for diesel vehicles ("INVALID" is displayed for other vehicles).
Command Value of Fuel Injection Amount	Displays the fuel injection volume (ECU command value).	0 to 120 mm ^{3} /st	Only displayed for diesel vehicles.
Steering Signal	Displays the steering angle.	-567 to 567 deg	Becomes a positive value when turning left.
HV Recognition Flag	Displays whether the vehicle is a hybrid vehicle.	HV: Hybrid vehicle Other: Gasoline or diesel vehicle	-
Diesel Flag	Displays whether the vehicle is a diesel vehicle.	Diesel: Diesel vehicle Other: Gasoline or hybrid vehicle	-
Sensor Type Identification (Security)	Displays whether a clinometer sensor is installed.	INSTALLED / NOT INSTALLED	Displays a fixed value for each vehicle.
Sensor Type Identification (G Sensor Layout)	Displays the acceleration sensor position angle for the vehicle forward direction.	45° / 90°	Displays a fixed value for each vehicle.
Sensor Type Identification (G Sensor)	Displays the number of acceleration sensors.	1 / 2	Displays a fixed value for each vehicle.
Sensor Type Identification (Yaw Rate Sensor)	Displays the number of yaw rate sensors.	1 / 2	Displays a fixed value for each vehicle.
Yaw G Sensor Installation Information	Displays normal direction or reverse direction (180° opposite) for the sensor position angle (acceleration sensor position angle).	NORMAL DIRECTION / REVERSE DIRECTION	Displays a fixed value for each vehicle.
Shift Gear	Displays the shift step (meter display value) when in sequential mode.	OFF: Sequential mode off GEARS 1 to 8: Shift step on meter display	-

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ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
PWR Mode	Displays the PWR mode indicator light status.	ON: PWR mode indicator light illuminated OFF: PWR mode indicator light not illuminated	-
ECO Mode	Displays the ECO mode indicator light status.	ON: ECO mode indicator light illuminated OFF: ECO mode indicator light not illuminated	-
Integrated Sport Mode Indicator	Displays the SPORT mode indicator light status.	ON: SPORT mode indicator light illuminated OFF: SPORT mode indicator light not illuminated	-
SNOW Mode	Displays the SNOW mode indicator light status.	ON: SNOW mode indicator light illuminated OFF: SNOW mode indicator light not illuminated	-
Valid/Invalid of Driving Mode	Displays whether the driving mode information (PWR/ECO /SPORT/SNOW) is valid.	VALID / INVALID	-
VSC OFF Lamp	Displays the VSC OFF indicator light status.	ON: VSC OFF indicator light illuminated OFF: VSC OFF indicator light not illuminated	-
TRC OFF Lamp	Displays the TRAC OFF indicator light status.	ON: TRAC OFF indicator light illuminated OFF: TRAC OFF indicator light not illuminated	-
Valid/Invalid of TRC/VSC OFF Lamp	Displays whether the TRC OFF indicator light and VSC OFF indicator light information is valid.	VALID / INVALID	-
EV Mode	Displays the EV mode indicator light status.	ON: EV mode indicator light illuminated OFF: EV mode indicator light not illuminated	-
Valid/Invalid of EV Mode	Displays whether the EV mode information is valid.	VALID / INVALID	-
Integrated Sport Mode Signal	Displays SPORT mode status.	NORMAL / ALL Sport / CHASSIS Sport / PWR	Vehicles without integrated SPORT modes always display NORMAL.
Engine Load Factor	Displays the engine load.	0 to 100%	Hybrid and diesel vehicles display "INVALID".

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ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
READY Signal	Displays whether driving is possible.	ON / OFF	Conventional and diesel vehicles display "INVALID".
Gear Position Signal	Displays the current gear step.	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8	• Hybrid vehicles display "INVALID". • CVT normally displays "1".
Turbine RPM/Input Shaft RPM	Displays the torque converter output axis speed (input shaft speed).	0 to 12650 rpm	-
Under VSC Control	Displays whether VSC control is operating.	ON: Operating OFF: Not operating or not equipped	-
Under ABS Control	Displays whether ABS control is operating.	ON: Operating OFF: Not operating or not equipped	-
Under VDM Control	Displays whether VDM control is operating.	ON: Operating OFF: Not operating or not equipped	-
Under TRC Operation Flag	Displays whether TRC control is operating.	ON: Operating OFF: Not operating or not equipped	-
FR Wheel Speed	Displays the front right wheel speed.	-67.67 to 260 km/h	-
FL Wheel Speed	Displays the front left wheel speed.	-67.67 to 260 km/h	-
RR Wheel Speed	Displays the rear right wheel speed.	-67.67 to 260 km/h	-
RL Wheel Speed	Displays the rear left wheel speed.	-67.67 to 260 km/h	-
Trigger Judgment Information	Displays whether cruise control related DTCs are displayed.	DTCS DISPLAYED / DTCS NOT DISPLAYED	-
Driving Force Demand Judgment Flag	Displays whether the drive power request method to the ECU is "Drive Power (N) Command" or another value.	DRIVE POWER / NO DRIVE POWER	Displays a fixed value for each vehicle.
DSS Judgment Flag	Displays whether a vehicle driving support system is installed.	INSTALLED / NOT INSTALLED	-

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ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
Cruise Control Res/Accel SW	Displays the cruise control RES/ACC switch status.	ON / OFF	-
Cruise Control Set/Coast SW	Displays the cruise control SET/COAST switch status.	ON / OFF	-
Cruise Control Cancel SW	Displays the cruise control CANCEL switch status.	ON / OFF	-
Cruise Control Brake SW	Displays the stop light switch status during cruise control.	ON / OFF	-
Cruise Control D Signal	Displays whether the shift position is D during cruise control.	ON / OFF	-
Cruise Control Main SW	Displays the cruise control main switch status.	ON / OFF	-
Cruise Control Set Speed	Displays the set vehicle speed for cruise control.	0 to 255 km/h	-
Vehicle Speed (during Cruise Control)	Displays the vehicle speed during cruise control.	0 to 255 km/h	-
Cruise Control Request Value	Displays the drive power requested by the cruise control system.	DRIVE POWER : 0 to 127.5% NO DRIVE POWER : -12800 to 12700 N	"The value on Driving Force Demand Judgment Flag" determines with value is displayed.
ACC Target Distance	Displays the vehicle-to-vehicle distance to the preceding vehicle targeted by ACC (vehicle-to-vehicle distance mode).	0 to 251 m	-
ACC Target Condition	Displays the ACC system control status.	PRECEDING VEHICLE EXISTS / NO PRECEDING VEHICLE / FIXED SPEED MODE / RADAR MALFUNCTION	-
ACC Relative Speed	Displays the relative vehicle speed of the preceding vehicle targeted by ACC (vehicle-to-vehicle distance mode).	-128 to 127 km/h	-

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ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
PCS Reception Data Invalid Flag	Displays the VALID/INVALID status of PCS related data.	VALID / INVALID	-
ALM Request Flag	Displays whether an operation request was output to the warning function from PCS.	ON: Operation request OFF: No operation request	-
ABK Request Flag	Displays whether an operation request was output to the warning brake function from PCS.	ON: Operation request OFF: No operation request	Only displayed for vehicles with a driver monitor camera.
PBA Request Flag	Displays whether an operation request was output according to the pre-collision brake assist function from PCS.	ON: Operation request OFF: No operation request	-
FPB Request Flag	Displays whether an operation request was output to the pre-collision function from PCS.	ON: Operation request OFF: No operation request	-
PB Request Flag	Displays whether an operation request was output to the collision function from PCS.	ON: Operation request OFF: No operation request	-
Extension Request Flag	Displays whether the PCS control target is the preceding vehicle.	ON: Preceding vehicle OFF: Not preceding vehicle	A valid value is only displayed when the ALM, ABK, PBA, FPB and PB request flags are ON. Otherwise, OFF is displayed.
PSB Request Flag	Displays whether an operation request was output to the pre-collision seat belt control function from PCS.	ON: Operation request OFF: No operation request	-
PCS READY Flag	Displays whether PCS is valid (operation permitted).	VALID / INVALID	-
PCS Display (PSB Communication)	Displays whether the pre-collision seat belt (PSB) communication is valid.	COMMUNICATION VALID / COMMUNICATION INVALID	-
PCS Display (System Fault)	Displays whether the PCS system is normal.	SYSTEM NORMAL / SYSTEM MALFUNCTION	-

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ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
PCS Display (Radar Dirt)	Displays whether the radar is normal.	RADAR NORMAL / RADAR DIRTY	-
PCS Display (Temporarily not available)	Displays whether the PCS system was temporarily unavailable.	SYSTEM AVAILABLE / SYSTEM TEMPORARILY UNAVAILABLE	-
Target Distance	Displays the PCS control target vehicle-to-vehicle distance.	0 to 163.83 m	If a target is recognized, but PCS control is determined unnecessary, the largest value is displayed.
Target Relative Velocity	Displays the PCS control target vehicle relative speed.	-51.175 to 0 m/s	If a target is recognized, but PCS control is determined unnecessary, the largest value is displayed.
Target Lateral Position	Displays the PCS control target side position.	-5.12 to 5.08 m	• If a target is recognized, but PCS control is determined unnecessary, the largest value is displayed. • If the target is on the right side of the vehicle a positive value is displayed, and if the target is on the left side a negative value is displayed.
Target Number	Displays the target number determined by PCS control for targets recognized by the sensors (maximum 8 targets).	1 to 8	When the target number is 1 and the related record data (control target vehicle-to-vehicle distance, relative speed and side position) all display the largest values, PCS control has been determined unnecessary.
Detection of Certain Level of Acceleration	Displays whether acceleration above a certain level is detected.	Unsupported / No / Invalid / Yes	-
LKA DDR Trigger Signal	Displays whether the LKA/LDA trigger is set.	TRIGGER OFF / TRIGGER CONDITION 1 / TRIGGER CONDITION 2 / TRIGGER CONDITION 3	-
Invalid of LKA DDR Data	Displays whether the LKA/LDA related information is valid.	VALID / INVALID	-
Steering Wheel Release Condition	Displays judgment status of steering hands during LKA control.	ON: No hands judged OFF: No hands not judged	-

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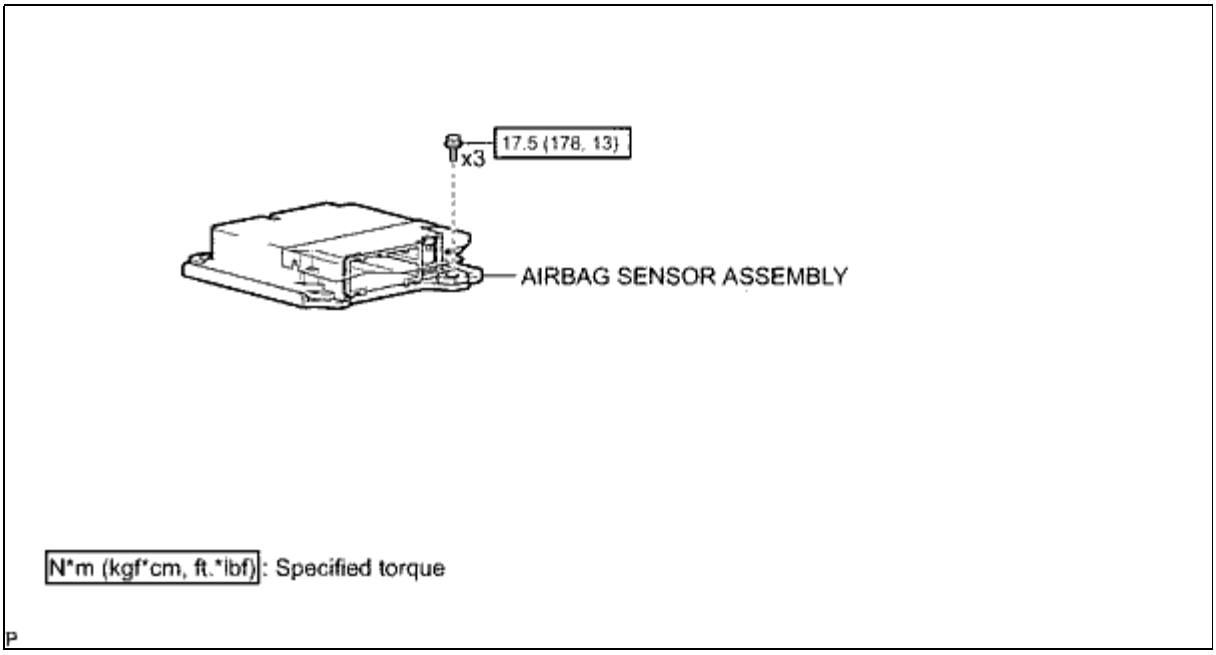
ITEM NAME	ITEM EXPLANATION	DISPLAYED VALUE	REMARKS
Steering Operation of LKA	Displays steering judgment status during LKA control.	ON: Steering judged OFF: Steering not judged	-
Steering Operation of LDA	Displays steering judgment status during LDA control.	ON: Steering judged OFF: Steering not judged	-
LKA Control Condition (EPS Control)	Displays the EPS control (steering control) status.	ON: Operating OFF: Not Operating	-
LKA Control Condition	Displays the LKA/LDA control status.	LKA AVAILABLE: LKA operation available LDW AVAILABLE: LDA operation available OFF: Control operation unavailable	-
Turn Signal Operation	Displays the turn signal operation status.	OFF / RIGHT TURN ON / LEFT TURN ON	-
EPS Torque Sensor Value	Displays the assist amount according to EPS.	-12.5 to 125 Nm	Becomes positive value when steering left.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM0000030FV00BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CENTER AIRBAG SENSOR ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM0000030FU00BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CENTER AIRBAG SENSOR ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL AIRBAG SENSOR ASSEMBLY

(a) Check that the ignition switch is OFF.

(b) Check that the cable is disconnected from the battery negative (-) terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(c) Install the airbag sensor assembly with the 3 bolts.

Torque:

17.5 N·m {178 kgf·cm, 13ft·lbf}

NOTICE:

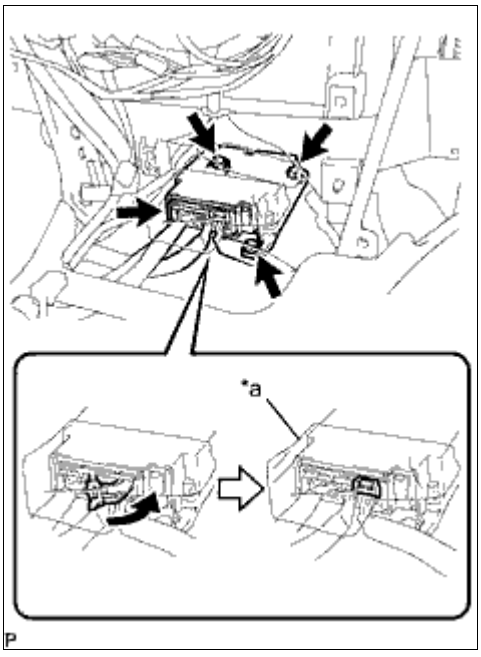
- If the airbag sensor assembly has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the airbag sensor assembly, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.

(d) Check that there is no looseness in the installation parts of the airbag sensor assembly.

(e) Connect the connector holder to lock the lever.

Text in Illustration

*a	Waterproof Sheet



NOTICE:

Confirm that the lever is locked.

(f) Check that the waterproof sheet is properly set.

2. INSTALL FRONT CONSOLE BOX

INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

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Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. INSPECT SRS WARNING LIGHT

INFO .

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM0000030FY00BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CENTER AIRBAG SENSOR ASSEMBLY: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT AIRBAG SENSOR ASSEMBLY (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT AIRBAG SENSOR ASSEMBLY (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .

3. INSPECT AIRBAG SENSOR ASSEMBLY (for Vehicle Involved in Collision and Airbag has Deployed)

(a) Replace the airbag sensor assembly.

CAUTION:

For removal and installation procedures of the airbag sensor assembly, be sure to follow the correct procedure.

HINT:

The airbag sensor assembly should be replaced after any of the airbags has deployed, as it has been subjected to the impact.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM0000030FW00BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CENTER AIRBAG SENSOR ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. REMOVE FRONT CONSOLE BOX

INFO

3. REMOVE AIRBAG SENSOR ASSEMBLY

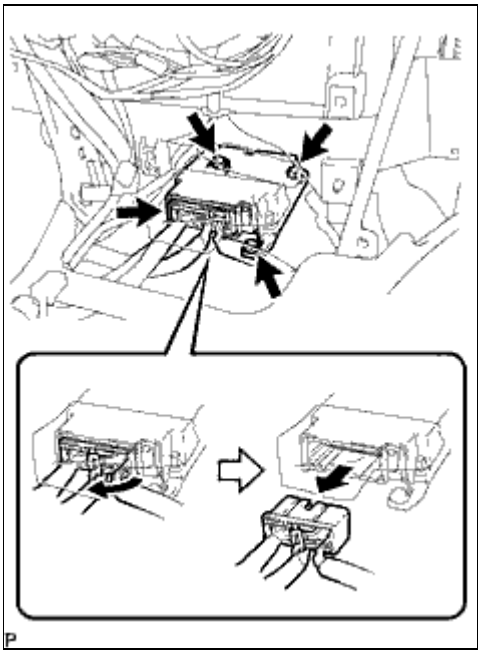
(a) Check that the ignition switch is OFF.

(b) Check that the cable is disconnected from the battery negative (-) terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(c) Pull the lever down to disconnect the connector holder.



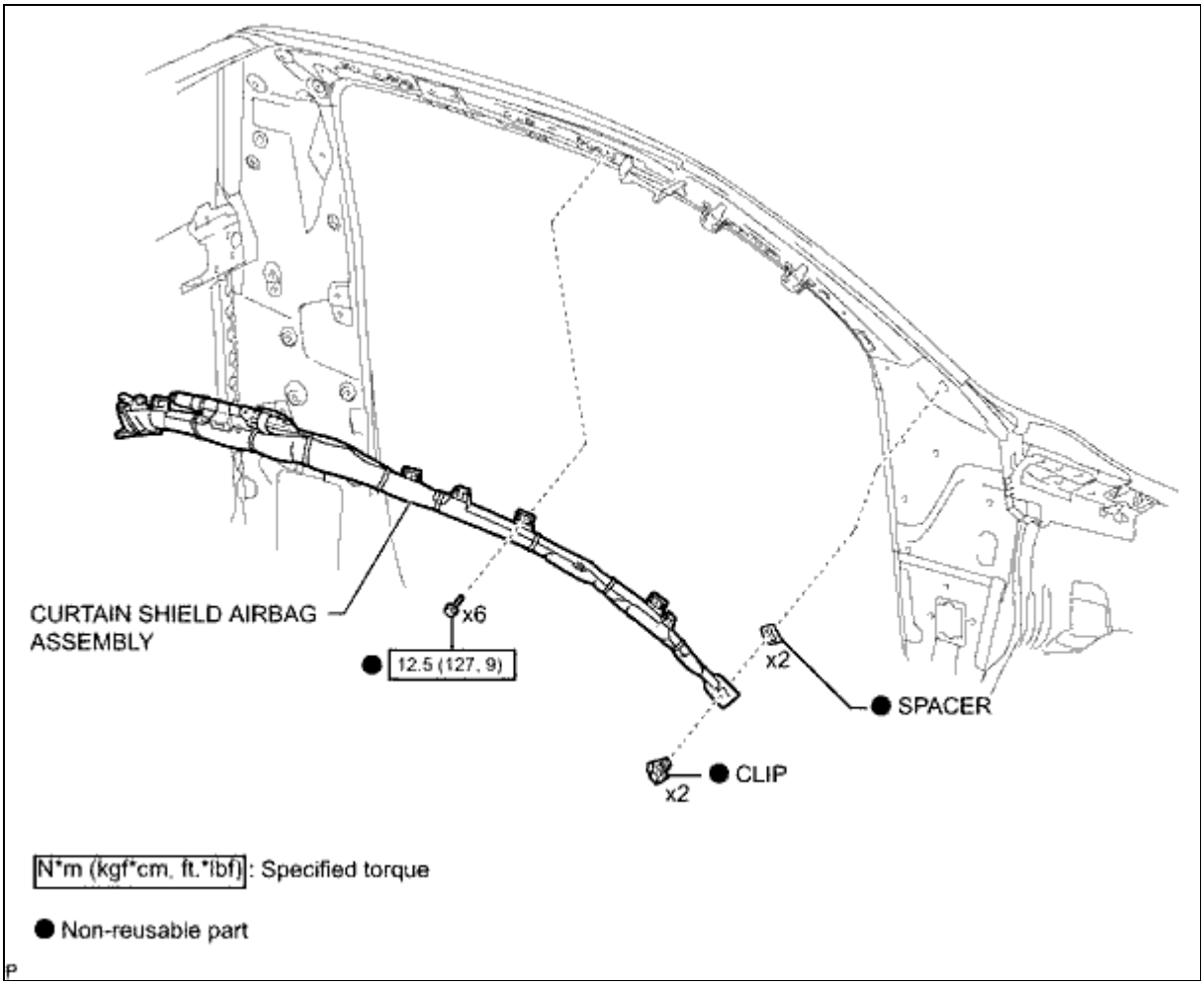
(d) Remove the 3 bolts and airbag sensor assembly.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000000UXF091X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Access Cab): COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000000UXC0DNX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Access Cab): DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

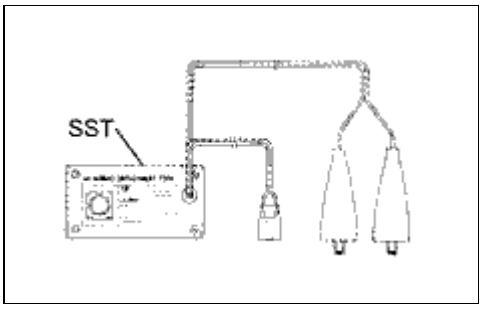
CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of a curtain shield airbag assembly with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the curtain shield airbag assembly.
- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.
- Do not apply water etc. to a curtain shield airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the curtain shield airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (When Installed in Vehicle)



NOTICE:

- When disposing of the curtain shield airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of the SST INFO .

(b) Precaution INFO .

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(c) Disconnect the cable from the negative battery terminal.

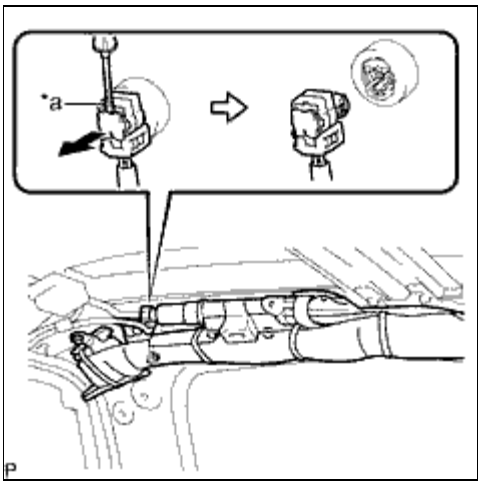
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(d) Remove the roof headlining assembly INFO .

(e) Install SST.

(1) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock.



Text in Illustration

*a	Protective Tape

(2) Disconnect the connector from the curtain shield airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

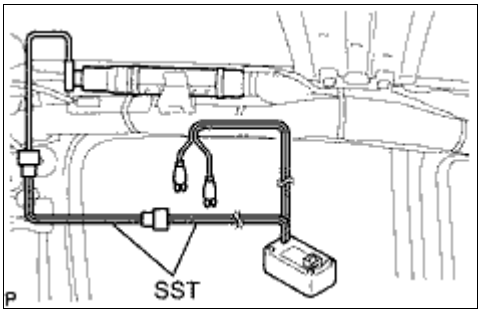
(3) After connecting SST to each other, connect them to the curtain shield airbag.

SST: 09082-00700

SST: 09082-00802

09082-10801

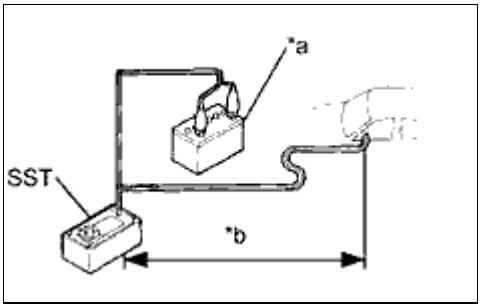
09082-20801



NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

(4) Move SST at least 10 m (32.8 ft.) away from the front side window of the vehicle.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(5) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

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NOTICE:

Take care not to damage the SST wire harness.

(6) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.
- Do not apply water etc. to a curtain shield airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

3. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (When Not Installed in Vehicle)

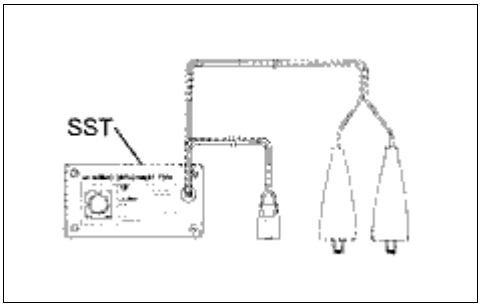
NOTICE:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of the SST INFO .

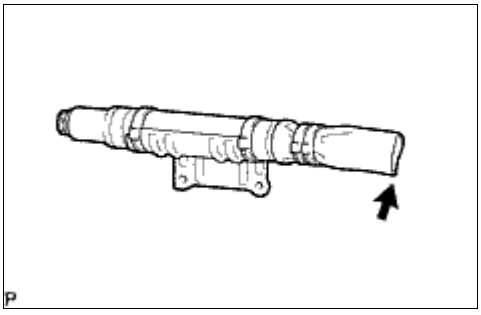


(b) Remove the curtain shield airbag assembly INFO .

CAUTION:

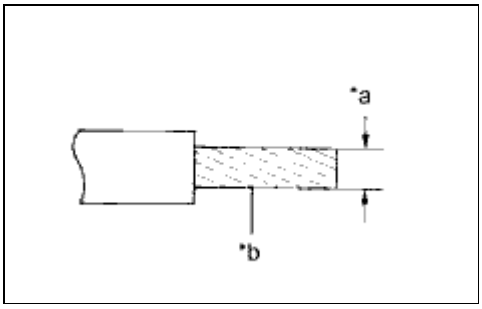
Before removing the curtain shield airbag assembly, wait at least 90 seconds after turning the ignition switch off and disconnecting the cable from the negative (-) battery terminal.

(c) Cut off the deployment section of the curtain shield airbag assembly.



(d) Using a service-purpose wire harness for the vehicle, tie the curtain shield airbag assembly to the tire.

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Text in Illustration

*a	Wire Diameter
*b	Stripped Wire

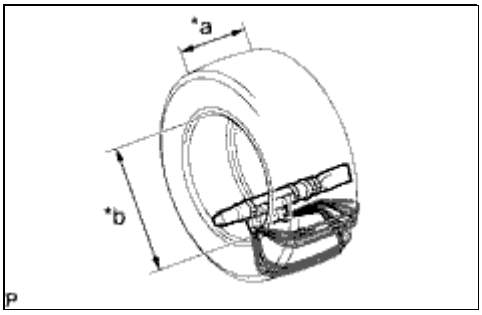
Wire:

Cross-sectional area of stripped wire

1.25 mm ^{2} (0.0019 in. ^{2}) or more

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the curtain shield airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm ^{2} (0.00193 in. ^{2}).



HINT:

To calculate the cross-sectional area of the stripped wire section:

Area = 3.14 x (Diameter) ^{2} / 4

(1) Position the curtain shield airbag assembly inside the tire as shown in the illustration.

Text in Illustration

*a	Width
*b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width:

185 mm (7.28 in.)

Inner diameter:

360 mm (1.18 ft.)

CAUTION:

Make sure that the wire harness is tight. If the wire harness is loose, the curtain shield airbag assembly

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may become loose due to the shock when the airbag is deployed.

NOTICE:

As the tires may be damaged by the airbag deployment, use a tire that you are planning to throw away.

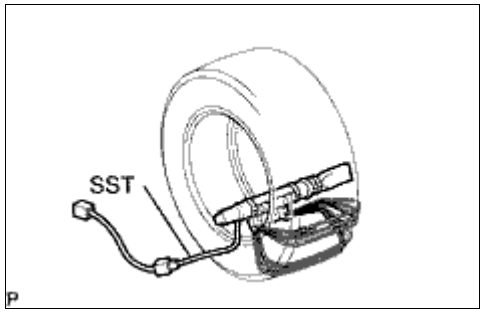
(e) Install SST.

(1) After connecting SST to each other, connect them to the curtain shield airbag.

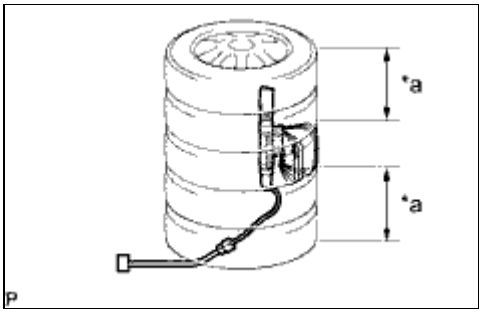
SST: 09082-00802

09082-10801

09082-20801



(f) Place the tires.



CAUTION:

Do not place the deployment direction of the curtain shield airbag facing the ground.

(1) Place at least 2 tires under the tire which the curtain shield airbag assembly is tied to.

Text in Illustration

*a	Tire (2 or more)

(2) Place at least 2 tires over the tire which the curtain shield airbag assembly is tied to. The top tire should have the disc wheel installed.

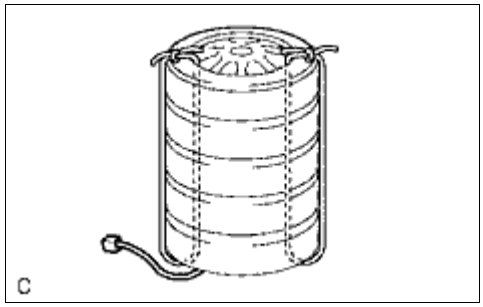
CAUTION:

- Do not place SST connector under the tire because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use a tire that you are planning to throw away.

(3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

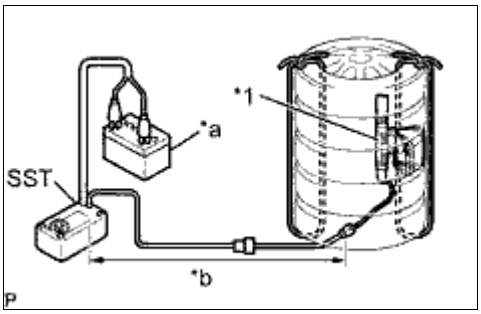


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(g) Install the SST.

Connect SST connector.

SST: 09082-00700



NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tires.

(h) Deploy the airbag.

(1) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to the battery negative (-) terminal.

Text in Illustration

*1	Curtain Shield Airbag
*a	Battery
*b	10 m (32.8 ft.) or more

(2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the curtain shield airbag is tied to.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(i) Dispose of the curtain shield airbag assembly.

CAUTION:

- The curtain shield airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag with a deployed airbag.
- Do not apply water to a curtain shield airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the curtain shield airbag assembly from the tire.

(2) Dispose of curtain shield airbag assembly, according to local regulations.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UXD0C2X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Access Cab): INSTALLATION; 2016 MY Tacoma [08/2015 -]		

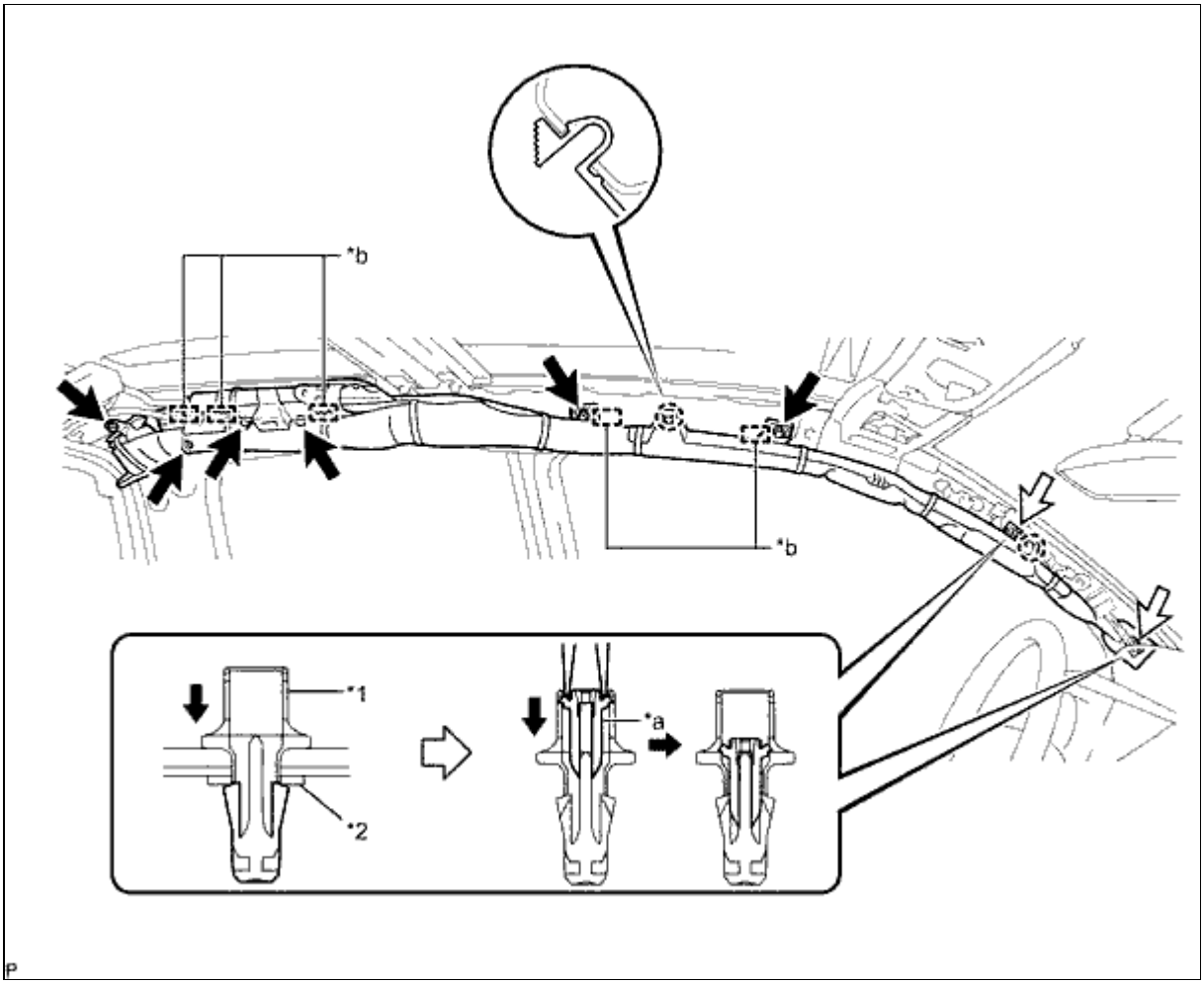
INSTALLATION

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Insert the 5 hooks, install 6 new bolts, 2 new clips with pins and 2 new spacers to install the curtain shield airbag assembly.



Text in Illustration

*1	Clip	*2	Spacer
*a	Pin	*b	Hook

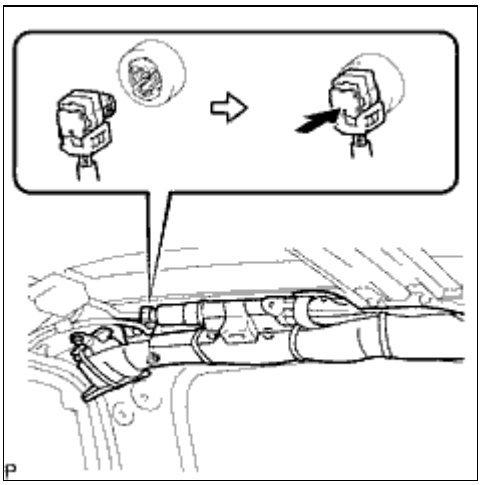
Torque:

12.5 N·m {127 kgf·cm, 9ft·lbf}

NOTICE:

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Do not twist the curtain shield airbag assembly.



(b) Connect the connector

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(c) Push in the airbag connector lock to install the airbag connector.

2. INSTALL ROOF HEADLINING ASSEMBLY

INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000000UXH0CNX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Access Cab): ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

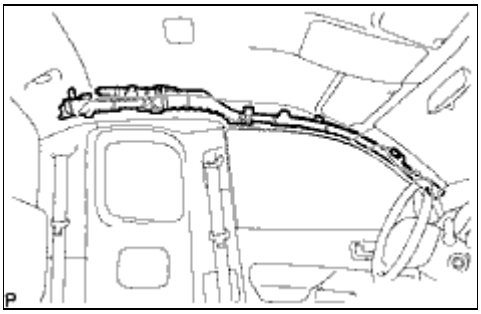
ON-VEHICLE INSPECTION

1. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (for Vehicle not Involved in Collision)

(a) Perform a Diagnostic System Check INFO .

(b) With the curtain shield airbag installed on the vehicle, perform a visual check. If any of the defects mentioned below are present, replace the curtain shield airbag with a new one:

Cuts, small cracks or marked discoloration on the curtain shield airbag.



2. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (for Vehicle Involved in Collision and Airbag not Deployed)

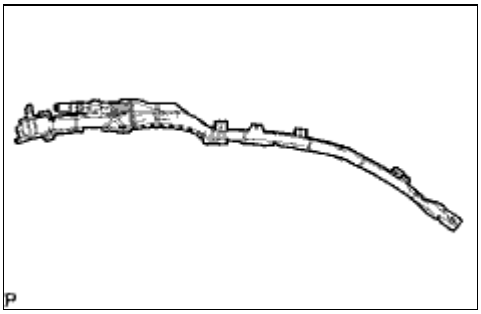
(a) Perform a Diagnostic System Check INFO .

(b) With the curtain shield airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag with a new one:

- Cuts, small cracks or marked discoloration on the curtain shield airbag.
- Cracks or other damage to the connectors.

CAUTION:

For removal and installation of the curtain shield airbag, be sure to follow the correct procedure.



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UXG0C2X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Access Cab): REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

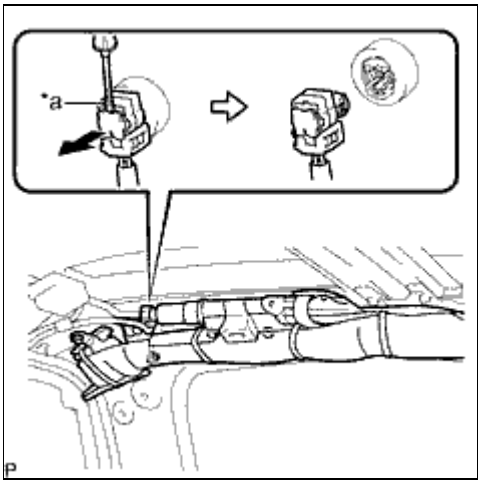
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE ROOF HEADLINING ASSEMBLY

INFO

3. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock.



Text in Illustration

*a	Protective Tape

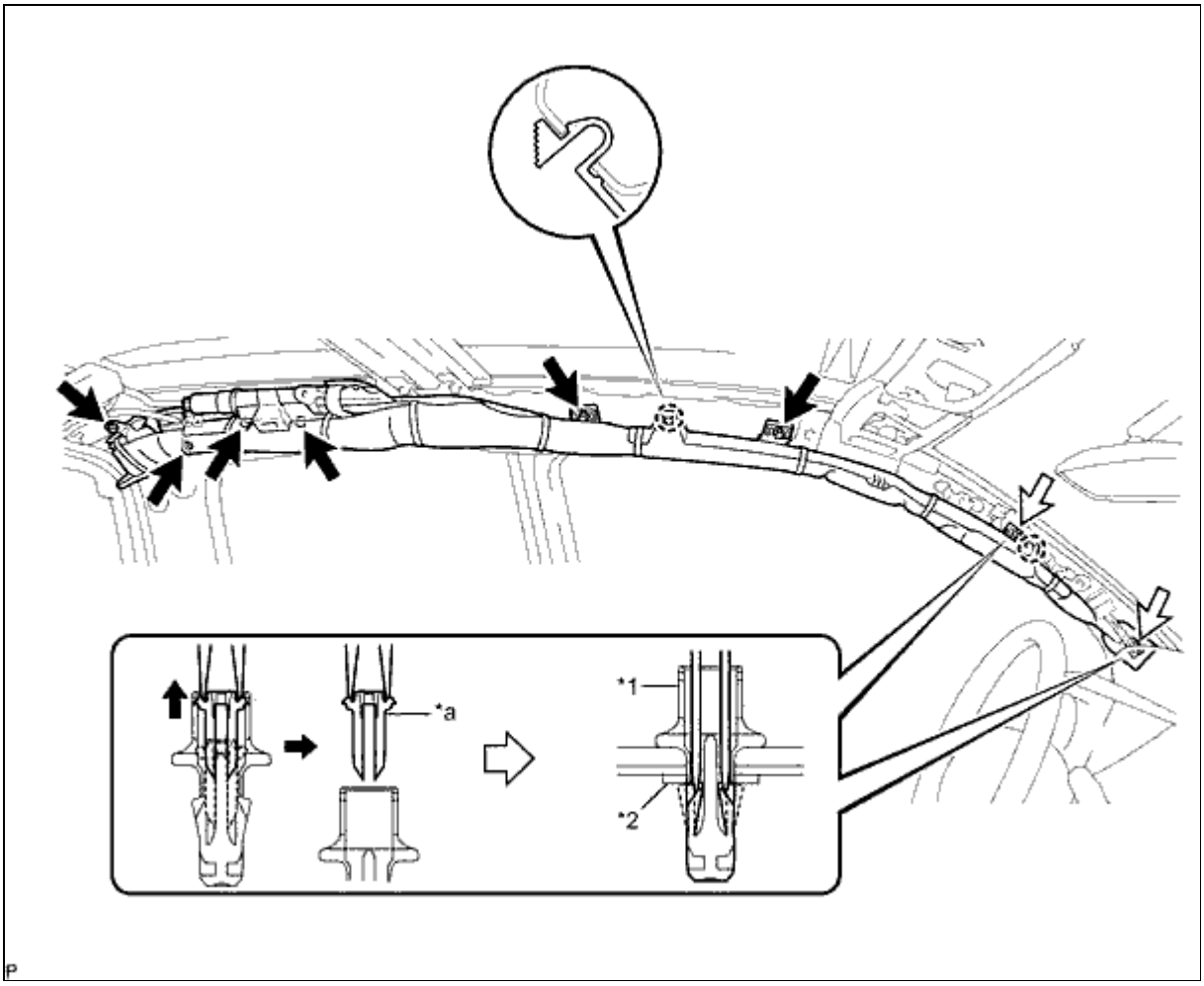
(b) Disconnect the connector.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(c) Using needle nose pliers, remove the 2 pins from the 2 clips.

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Text in Illustration

*1	Clip	*2	Spacer
*a	Pin	-	-

HINT:

Remove the 2 clips and curtain shield airbag assembly from the vehicle body as a unit.

(d) While holding the curtain shield airbag assembly, remove the 6 bolts, disengage the 2 claws and remove the curtain shield airbag assembly.

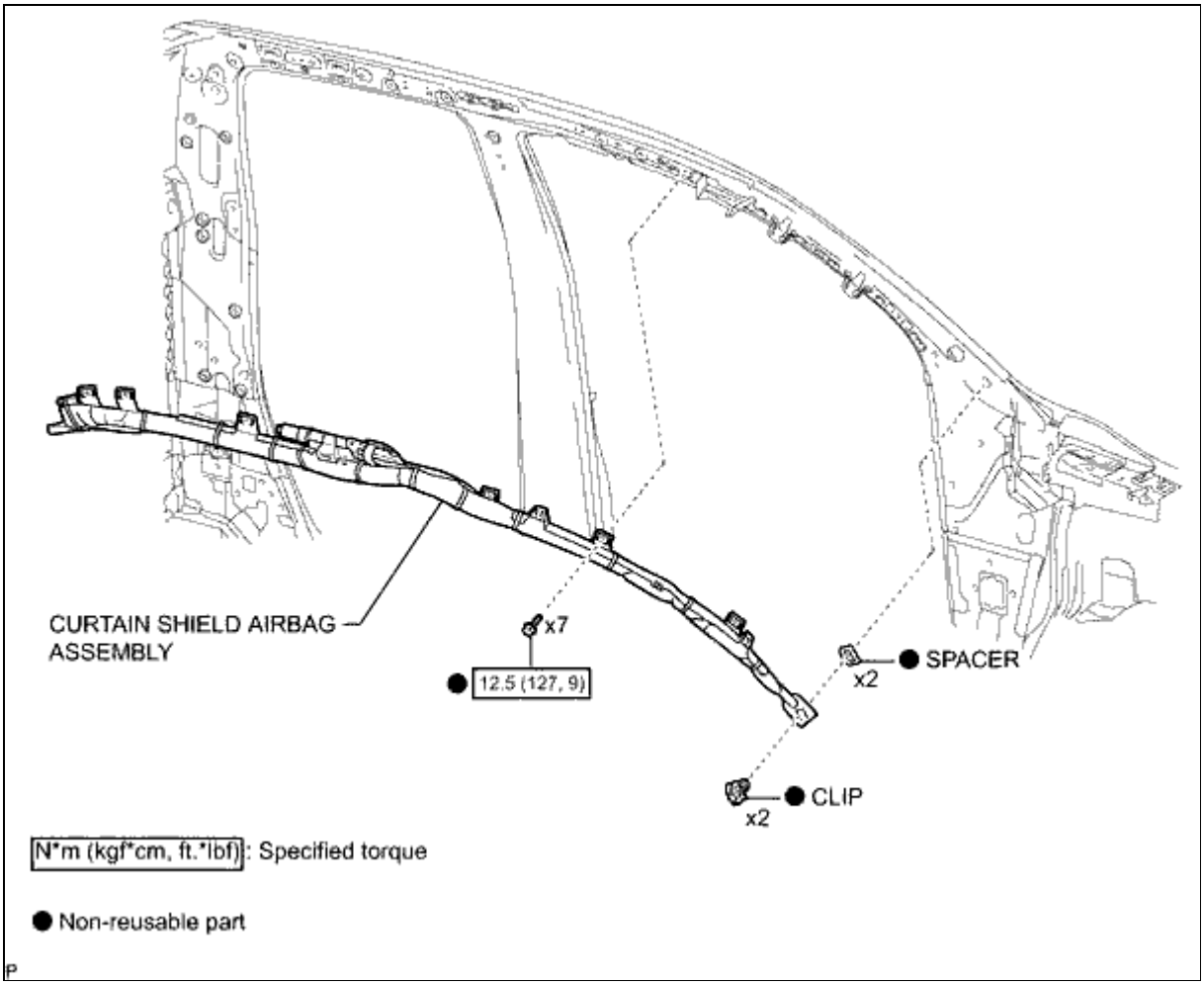
(e) Remove the 2 clips and 2 spacers from the curtain shield airbag assembly.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000000UXF092X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Double Cab): COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000000UXC0DOX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Double Cab): DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of a curtain shield airbag assembly with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the curtain shield airbag assembly.
- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.
- Do not apply water etc. to a curtain shield airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the curtain shield airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (When Installed in Vehicle)

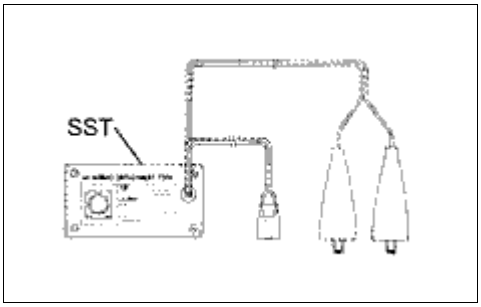
NOTICE:

- When disposing of the curtain shield airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of the SST (see step 1-(a) on page INFO).



(b) Precaution INFO .

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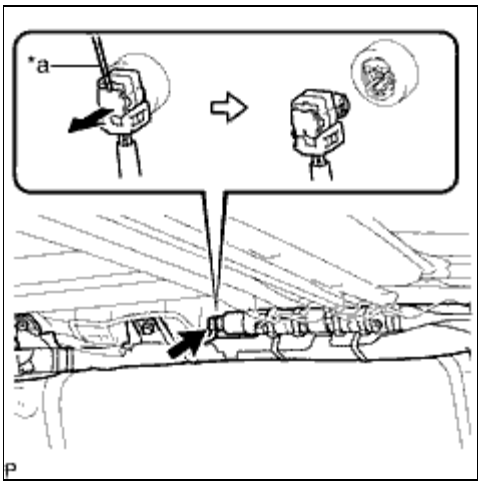
(c) Disconnect the cable from the negative battery terminal.

CAUTION:

After disconnecting cable from the negative battery terminal, wait for at least 90 seconds before starting the operation.

(d) Remove the roof headlining assembly INFO .

(e) Install SST.



(1) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock.

Text in Illustration

*a	Protective Tape

(2) Disconnect the connector from the curtain shield airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

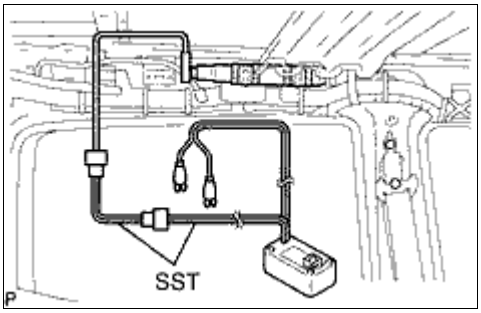
(3) After connecting SST below to each other, connect them to the curtain shield airbag assembly.

SST: 09082-00700

SST: 09082-00802

09082-10801

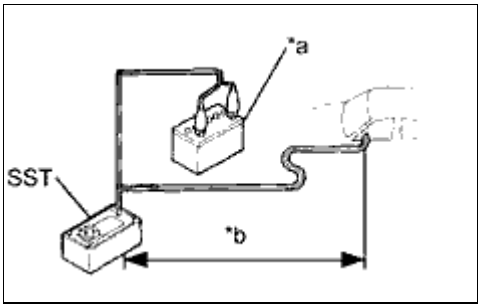
09082-20801



NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

(4) Move SST at least 10 m (32.8 ft.) away from the front side window of the vehicle.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(5) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

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NOTICE:

Take care not to damage the SST wire harness.

(6) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to negative (-) terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.
- Do not apply water etc. to a curtain shield airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

3. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (When Not Installed in Vehicle)

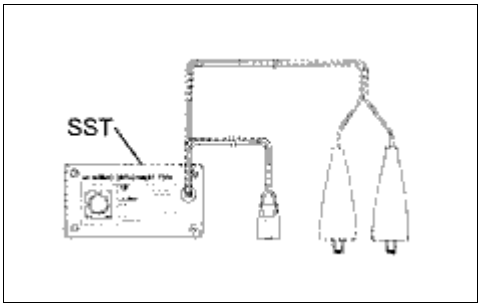
NOTICE:

Be sure to follow the procedures described below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of the SST (see step 1-(a) on page INFO).

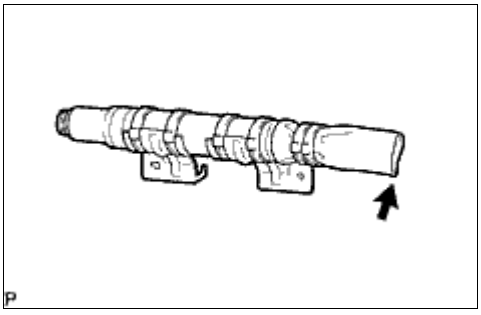


(b) Remove the curtain shield airbag assembly INFO .

CAUTION:

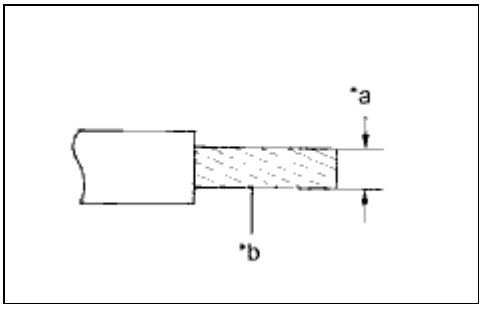
Before removing the curtain shield airbag assembly, wait at least 90 seconds after turning the ignition switch off and disconnecting the cable from the negative (-) battery terminal.

(c) Cut off the deployment section of the curtain shield airbag assembly.



(d) Using a service-purpose wire harness for the vehicle, tie the curtain shield airbag assembly to the tire.

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Text in Illustration

*a	Wire Diameter
*b	Stripped Wire

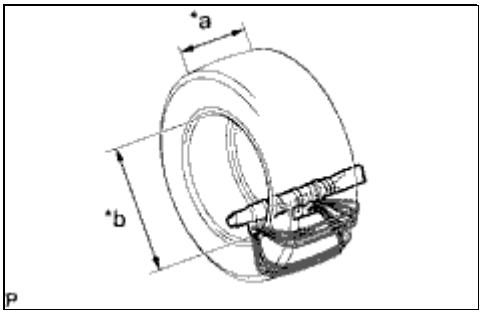
Wire:

Cross-sectional area of stripped wire

1.25 mm ^{2} (0.0019 in. ^{2}) or more

CAUTION:

If the wire harness is too thin or any other object is used to tie down the curtain shield airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with the wire size of at least 1.25 mm ^{2} (0.0019 in. ^{2}).



HINT:

To calculate the cross-sectional area of the stripped wire section:

Area = 3.14 x (Diameter) ^{2} / 4

(1) Position the curtain shield airbag assembly inside the tire as shown in the illustration.

Text in Illustration

*a	Width
*b	Inner Diameter

Tire size:

Must exceed the following dimensions:

Width: 185 mm (7.28 in.)

Inner diameter: 360 mm (14.17 in.)

CAUTION:

Make sure that the wire harness is tight. If the wire harness is loose, the curtain shield airbag assembly may become loose due to the shock when the airbag is deployed.

NOTICE:

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As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.

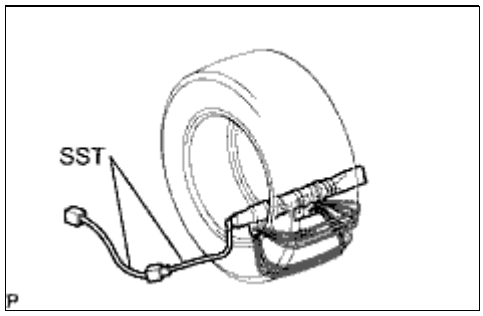
(e) Install SST.

(1) After connecting SST below to each other, connect them to the curtain shield airbag assembly.

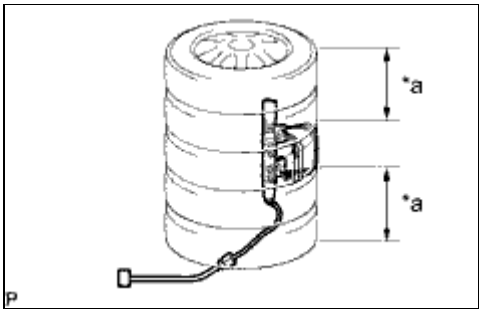
SST: 09082-00802

09082-10801

09082-20801



(f) Place the tires.



CAUTION:

Do not place the deployment side of the curtain shield airbag assembly facing toward the ground.

(1) Place at least 2 tires under the tire which the curtain shield airbag assembly is tied to.

Text in Illustration

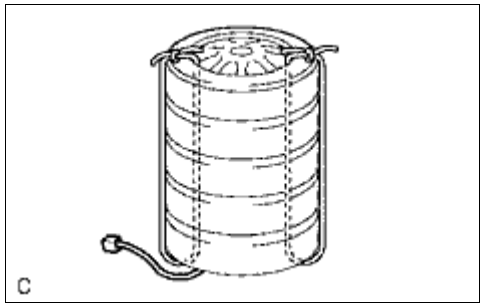
*a	Tire (2 or more)

(2) Place at least 2 tires over the tire which the curtain shield airbag assembly is tied to. The top tire should have the disc wheel installed.

NOTICE:

Do not place the SST connector under the tire because it could be damaged.

(3) Tie the tires together with 2 wire harnesses.



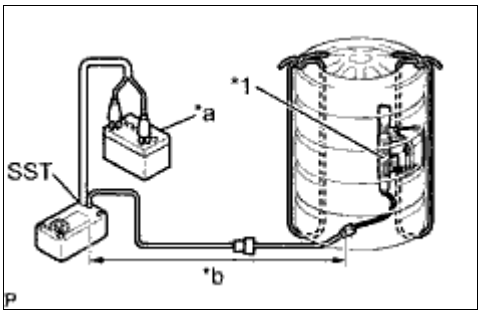
CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

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(g) Connect SST connector.

SST: 09082-00700



NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.

(h) Deploy the airbag.

(1) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to the battery negative (-) terminal.

Text in Illustration

*1	Curtain Shield Airbag Assembly LH
*a	Battery
*b	10 m (32.8 ft.) or more

(2) Check that no one is within a 10 m (32.8 ft.) radius of the tire to which the curtain shield airbag assembly is tied.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(i) Dispose of the curtain shield airbag assembly.

CAUTION:

- The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a curtain shield airbag assembly with the deployed airbag.
- Do not apply water etc. to a curtain shield airbag assembly with the deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the curtain shield airbag assembly from the tire.

(2) Dispose of curtain shield airbag assembly, according to local regulations.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UXD0C3X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Double Cab): INSTALLATION; 2016 MY Tacoma [08/2015 -]		

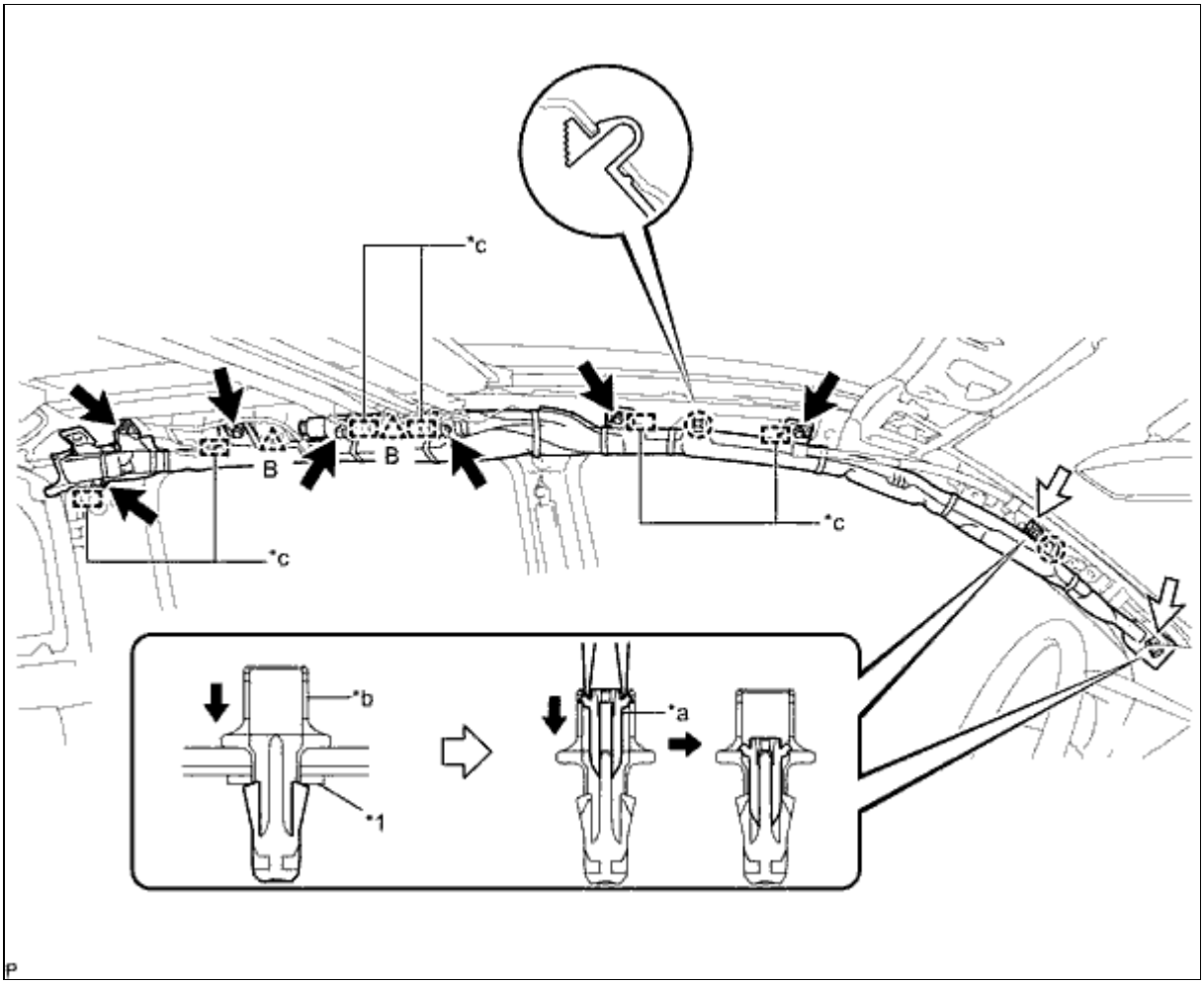
INSTALLATION

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Insert the 6 hooks, install 7 new bolts, 2 new clips (A) with pins and 2 new spacers, and engage 2 clips (B) to install the curtain shield airbag assembly.



Text in Illustration

*1	Spacer	-	-
*a	Pin	*b	Clip (A)
*c	Hook	-	-

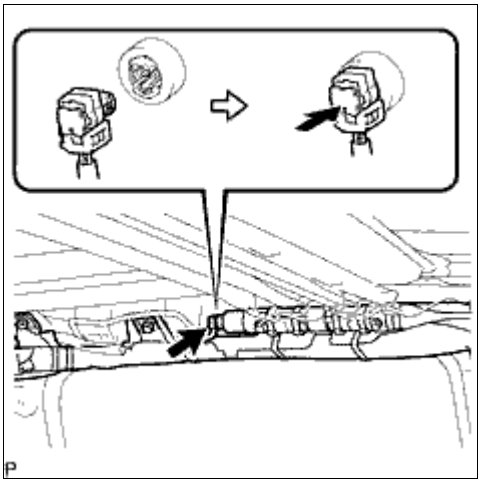
Torque:

12.5 N·m {127 kgf·cm, 9ft·lbf}

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NOTICE:

Do not twist the curtain shield airbag assembly.



(b) Connect the airbag connector to the curtain shield airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(c) Push in the airbag connector lock to install the airbag connector.

2. INSTALL ROOF HEADLINING ASSEMBLY

INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000000UXH0COX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Double Cab): ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

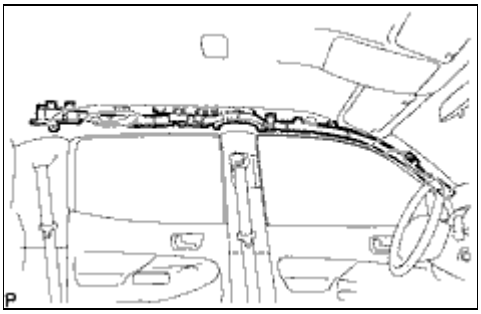
ON-VEHICLE INSPECTION

1. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

(b) With the curtain shield airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front pillar garnish or roof headlining assembly with a new one:

Cuts, minute cracks or marked discoloration on the front pillar garnish or roof headlining assembly around the curtain shield airbag assembly.

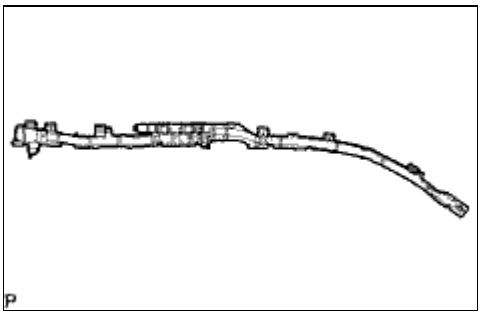


2. INSPECT CURTAIN SHIELD AIRBAG ASSEMBLY (for Vehicle Involved in Collision and Airbag not Deployed)

(a) Perform a diagnostic system check INFO .

(b) With the curtain shield airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag assembly with a new one:

- Cuts, minute cracks or marked discoloration on the curtain shield airbag assembly.
- Cracks or other damage to the connectors.



CAUTION:

For removal and installation procedures of the curtain shield airbag assembly. Be sure to follow the correct procedure.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UXG0C3X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: CURTAIN SHIELD AIRBAG ASSEMBLY (for Double Cab): REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

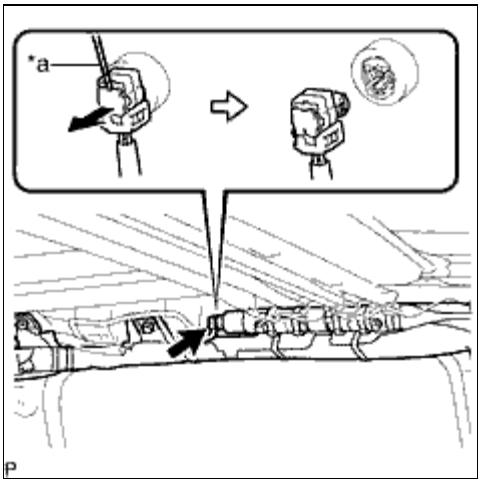
Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

2. REMOVE ROOF HEADLINING ASSEMBLY

INFO

3. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY

(a) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock.



Text in Illustration

*a	Protective Tape

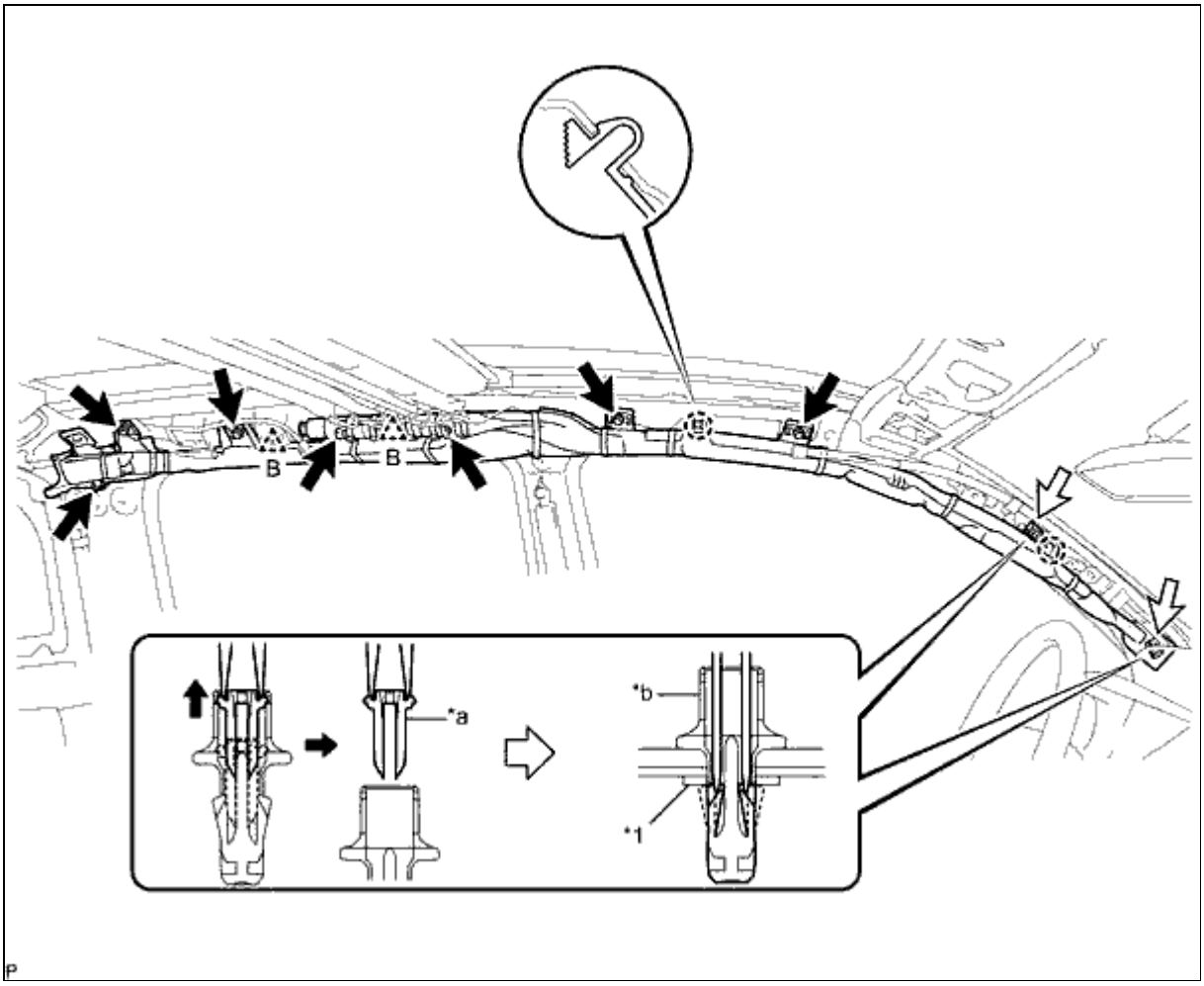
(b) Disconnect the airbag connector from the curtain shield airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(c) Using needle nose pliers, remove the 2 pins from the 2 clips (A).

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Text in Illustration

*1	Spacer	-	-
*a	Pin	*b	Clip (A)

HINT:

Remove the 2 clips (A) and curtain shield airbag assembly from the vehicle body as a unit.

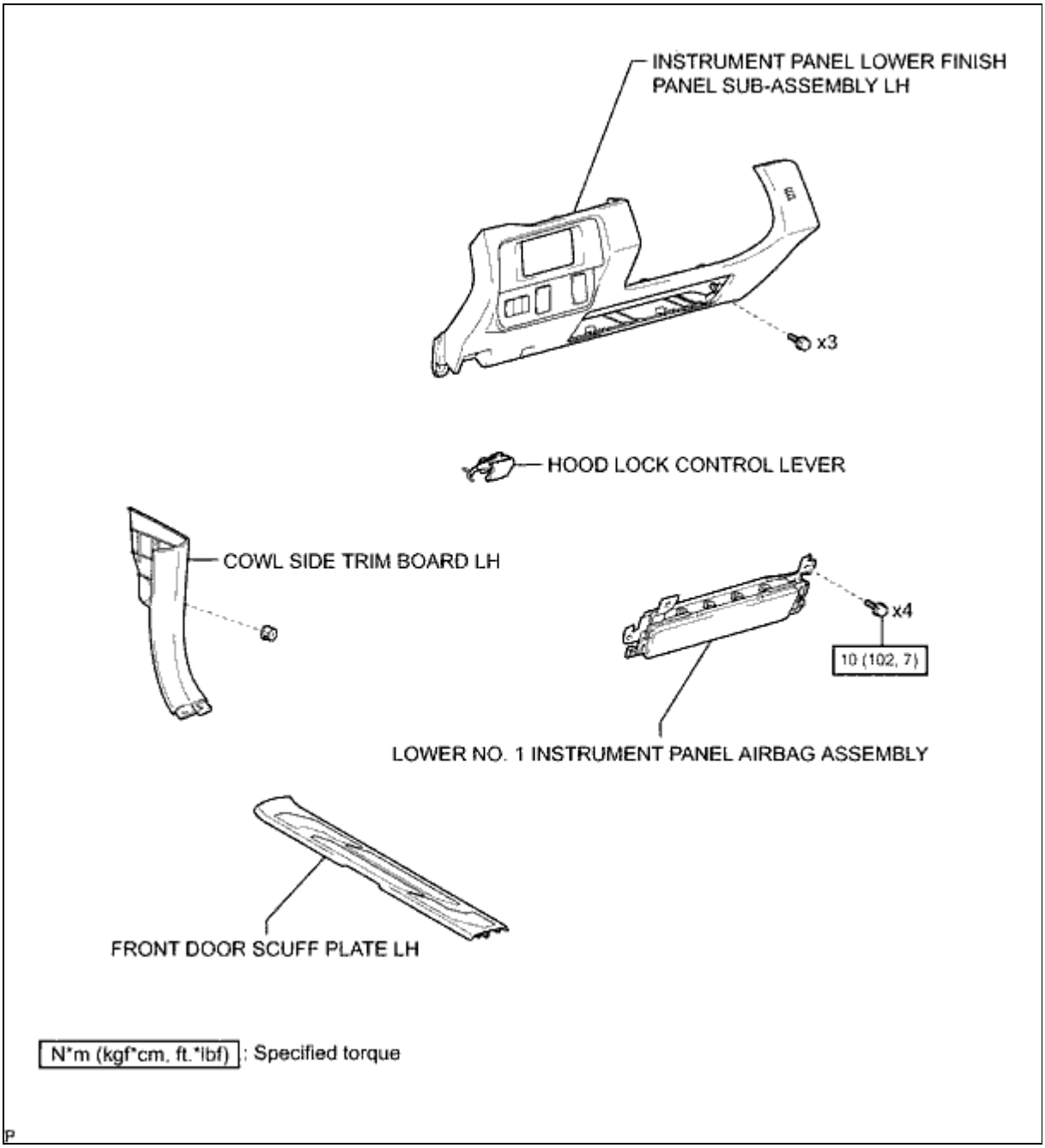
(d) While holding the curtain shield airbag assembly, remove the 7 bolts, disengage the 2 clips (B) and 2 claws and remove the curtain shield airbag assembly. (d)Remove the 2 clips (A) and 2 spacers from the curtain shield airbag assembly.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000003QJ600TX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: DRIVER SIDE KNEE AIRBAG ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000003QJ401IX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: DRIVER SIDE KNEE AIRBAG ASSEMBLY: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Predisposal deployment may be considered hazardous material treatment.

1. PRECAUTION

CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of a lower No. 1 instrument panel airbag assembly with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the lower No. 1 instrument panel airbag assembly.
- The lower No. 1 instrument panel airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 1 instrument panel airbag assembly with a deployed airbag.
- Do not apply water etc. to a lower No. 1 instrument panel airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the lower No. 1 instrument panel airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (When Installed in Vehicle)

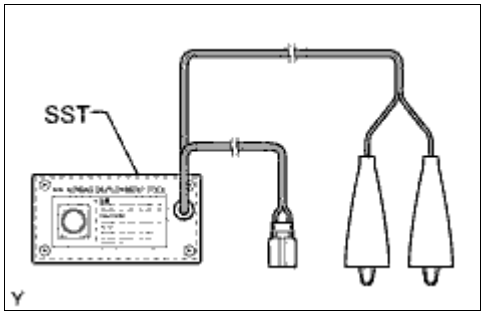
NOTICE:

- When disposing of the lower No. 1 instrument panel airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST INFO .



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(b) Read the precaution INFO .

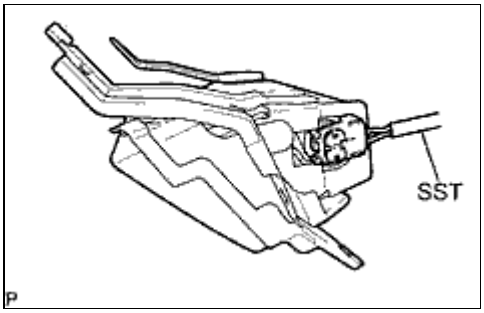
(c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(d) Remove the lower No. 1 instrument panel airbag assembly INFO .

(e) Install SST.



(1) Connect SST connector to the lower No. 1 instrument panel airbag assembly.

SST: 09082-00700

SST: 09082-00802

09082-10801

09082-20801

NOTICE:

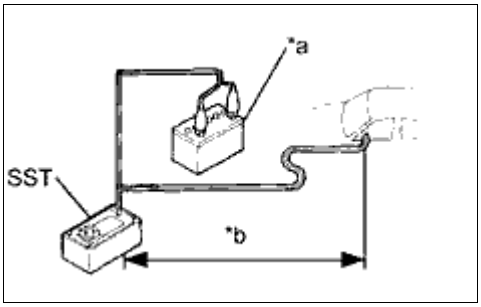
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

(2) Install the lower No. 1 instrument panel airbag assembly INFO .

NOTICE:

Take care not to damage SST wire harness.

(3) Move SST at least 10 m (32.8 ft.) away from the front side window of the vehicle.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(4) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

(5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

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(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The lower No. 1 instrument panel airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 1 instrument panel airbag assembly with a deployed airbag.
- Do not apply water etc. to a lower No. 1 instrument panel airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

3. DISPOSE OF LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (When Not Installed in Vehicle)

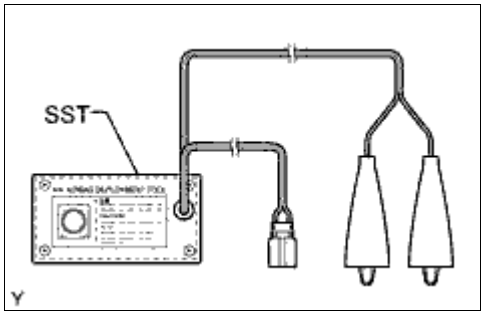
NOTICE:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST INFO .

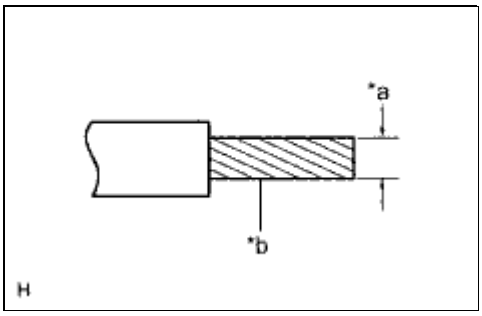


(b) Remove the lower No. 1 instrument panel airbag assembly INFO .

CAUTION:

- Before removing the lower No. 1 instrument panel airbag assembly, wait at least 90 seconds after turning the ignition switch off and disconnecting the cable from the negative (-) battery terminal.
- When storing the lower No. 1 instrument panel airbag assembly, keep the airbag deployment side facing upward.

(c) Using a service-purpose wire harness for the vehicle, tie down the lower No. 1 instrument panel airbag assembly to a tire.



Text in Illustration

*a	Wire Diameter

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*b	Stripped Wire

Wire:

Cross-sectional area of stripped wire

1.25 mm ^{2} or more (0.0019 in. ^{2} or more)

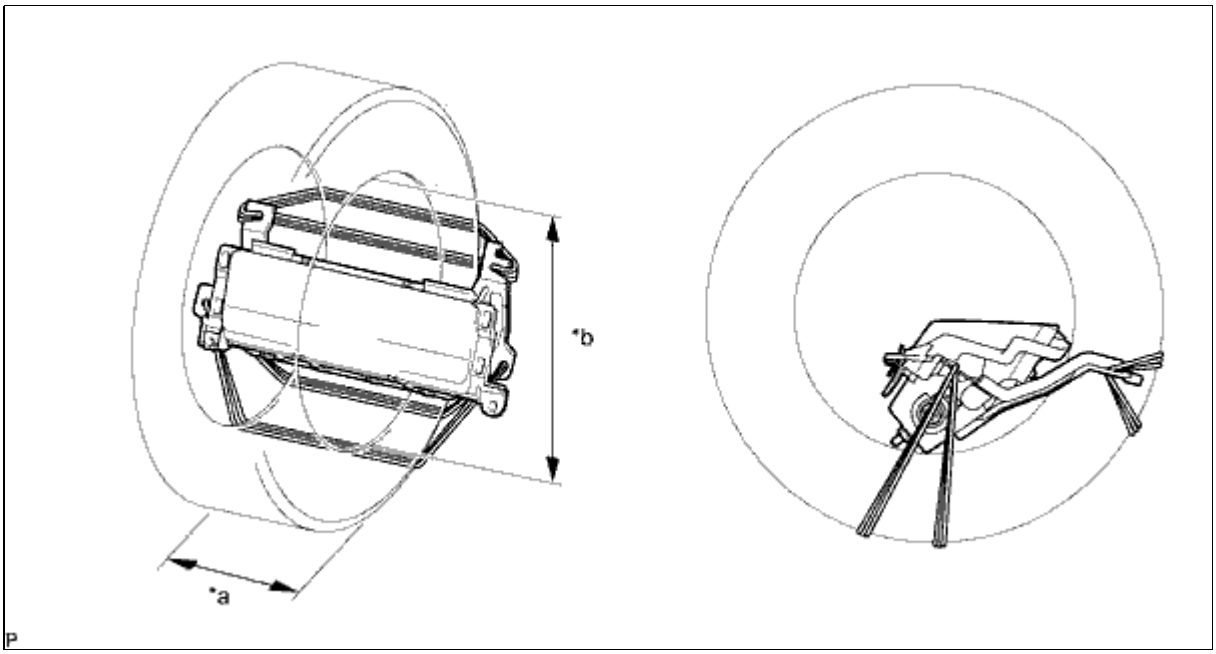
CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the lower No. 1 instrument panel airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm ^{2} (0.00192 in. ^{2}).

HINT:

To calculate the cross-sectional area of the stripped wire section: Area = 3.14 x (Diameter) ^{2} / 4

(1) Position the lower No. 1 instrument panel airbag assembly inside a tire with the airbag deployment side facing inside.



Text in Illustration

*a	Width	*b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

(2) Tie the lower No. 1 instrument panel airbag assembly to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the lower No. 1 instrument panel airbag assembly may become loose due to the shock when the airbag is deployed.
- Always tie down the lower No. 1 instrument panel airbag assembly with the airbag deployment side facing inside the tire.

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NOTICE:

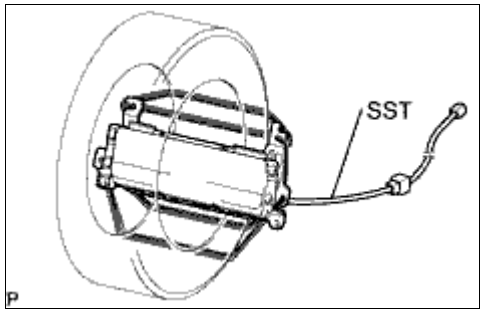
As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.

(d) Connect SST connector to the lower No. 1 instrument panel airbag assembly.

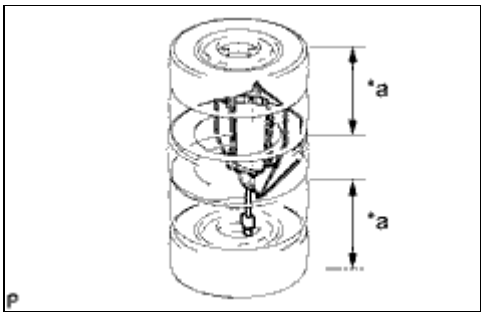
SST: 09082-00802

09082-10801

09082-20801



(e) Place tires.



(1) Place at least 2 tires under the tire which the lower No. 1 instrument panel airbag assembly is tied to.

Text in Illustration

*a	Tire (2 or more)

(2) Place at least 2 tires over the tire which the lower No. 1 instrument panel airbag assembly is tied to. The top tire should have a disc wheel installed.

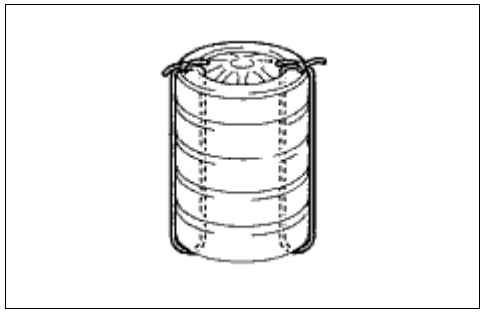
NOTICE:

- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.

(3) Tie the tires together with 2 wire harnesses.

CAUTION:

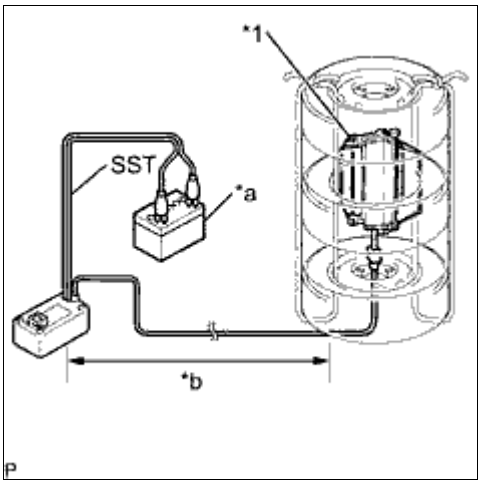
Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.



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(f) Connect SST connector.

SST: 09082-00700



NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for SST wire harness inside the tires.

(g) Deploy the airbag.

(1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

Text in Illustration

*1	Lower No. 1 Instrument Panel Airbag Assembly
*a	Battery
*b	10 m (32.8 ft.) or more

(2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the lower No. 1 instrument panel airbag assembly is tied to.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(h) Dispose of the lower No. 1 instrument panel airbag assembly.

CAUTION:

- The lower No. 1 instrument panel airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 1 instrument panel airbag assembly with a deployed airbag.
- Do not apply water to a lower No. 1 instrument panel airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the lower No. 1 instrument panel airbag assembly from the tire.

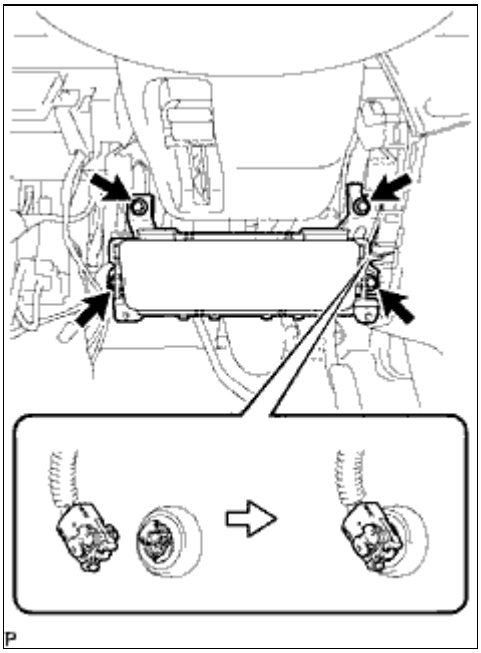
(2) Dispose of lower No. 1 instrument panel airbag assembly, according to local regulations.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000003QJ501WX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: DRIVER SIDE KNEE AIRBAG ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Connect the airbag connector.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(b) Push in the airbag connector lock to install the airbag connector.

(c) Install the lower No. 1 instrument panel airbag assembly with the 4 bolts.

Torque:

10 N·m {102 kgf·cm, 7ft·lbf}

2. INSTALL INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY LH INFO

3. CONNECT HOOD LOCK CONTROL LEVER SUB-ASSEMBLY INFO

4. INSTALL COWL SIDE TRIM BOARD LH INFO

5. INSTALL FRONT DOOR SCUFF PLATE LH INFO

6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

7. INSPECT SRS WARNING LIGHT

INFO

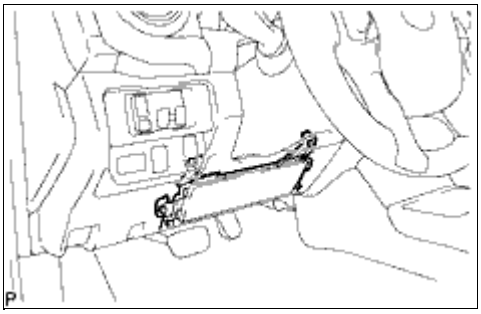
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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000003QJ801HX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: DRIVER SIDE KNEE AIRBAG ASSEMBLY: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

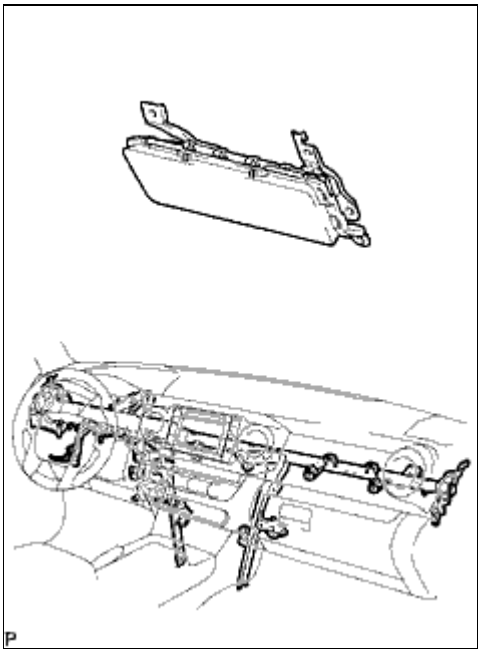


(b) With the lower No. 1 instrument panel airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 1 instrument panel airbag assembly with a new one:

Cuts, minute cracks or marked discoloration on the lower No. 1 instrument panel airbag assembly.

2. INSPECT LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .



(b) With the lower No. 1 instrument panel airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 1 instrument panel airbag assembly with a new one:

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- Cuts, minute cracks or marked discoloration on the lower No. 1 instrument panel airbag assembly.
- Cracks or other damage to the connector.
- Deformation or cracks on the instrument panel reinforcement.

CAUTION:

For removal and installation procedures of the lower No. 1 instrument panel airbag assembly, be sure to follow the correct procedure.





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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000003QJ701XX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: DRIVER SIDE KNEE AIRBAG ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. REMOVE FRONT DOOR SCUFF PLATE LH INFO

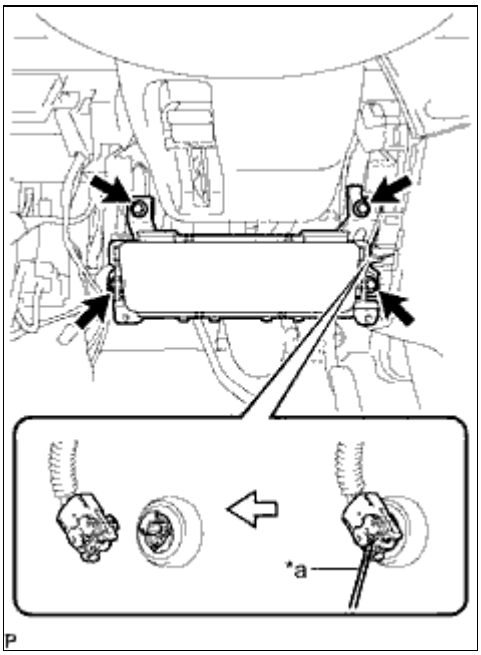
3. REMOVE COWL SIDE TRIM BOARD LH INFO

4. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY LH INFO

5. DISCONNECT HOOD LOCK CONTROL LEVER SUB-ASSEMBLY INFO

6. REMOVE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY

(a) Remove the 4 bolts.



(b) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock.

(c) Disconnect the airbag connector to remove the lower No. 1 instrument panel airbag assembly.

Text in Illustration

*a	Protective Tape

NOTICE:

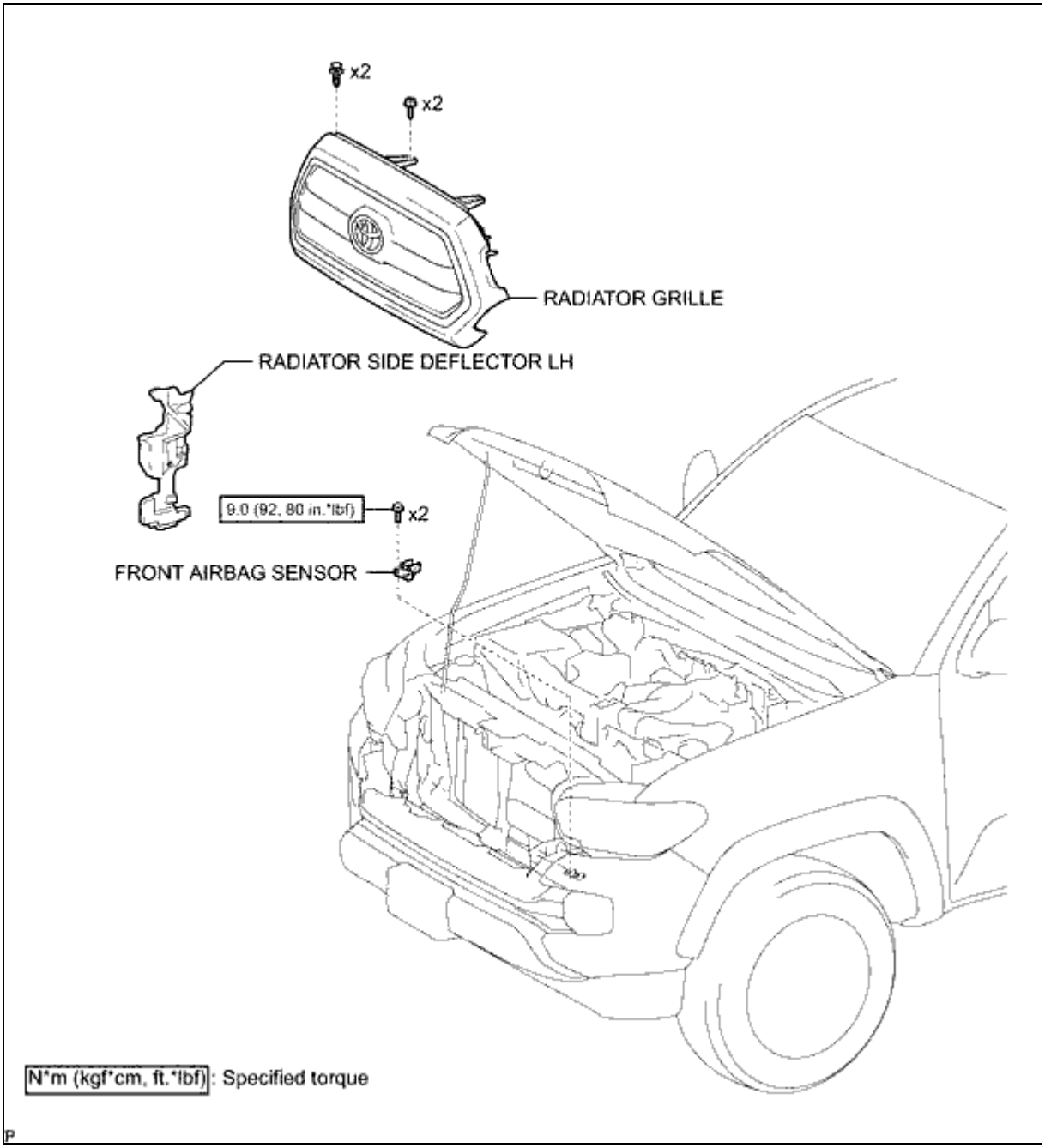
When handling the airbag connector, take care not to damage the airbag wire harness.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM0000018FE020X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT AIRBAG SENSOR: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000VKO041X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT AIRBAG SENSOR: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing INFO .

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL FRONT AIRBAG SENSOR

(a) Check that the ignition switch is off.

(b) Check that the cable is disconnected from the negative (-) battery terminal.

CAUTION:

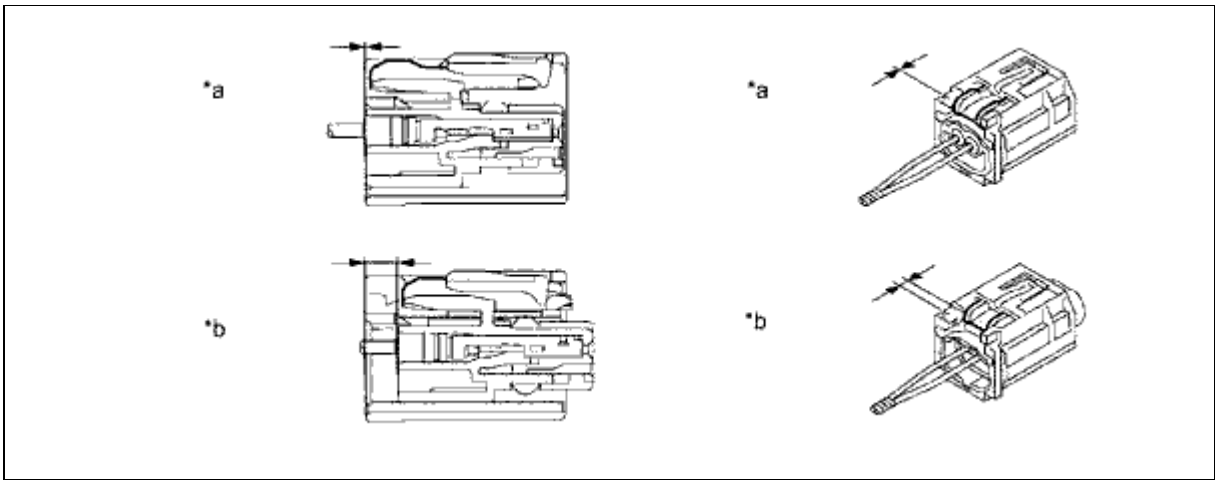
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Connect the connector to the front airbag sensor.

NOTICE:

When connecting any airbag connector, take care not to damage the airbag wire harness.

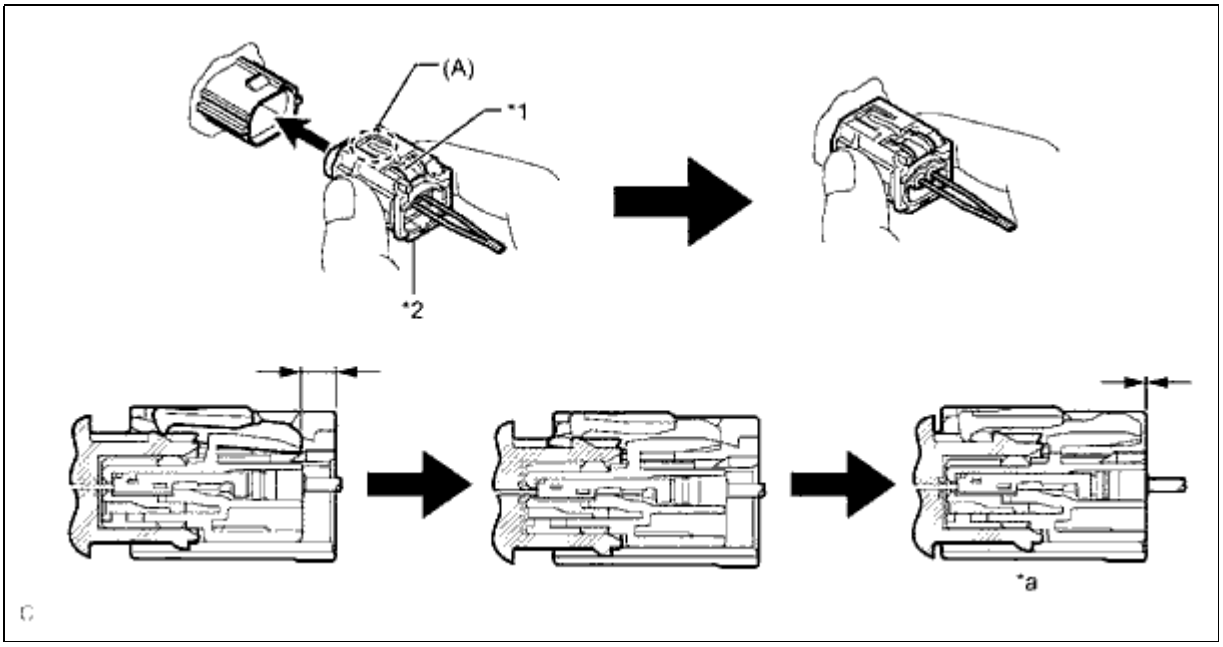
(1) Before connecting the connector, check that the position of the white housing lock is correct as shown in the illustration.



*a	Incorrect	*b	Correct

(2) Be sure to engage the connectors until they are locked (when locking, make sure that a click sound can be heard).

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Text in Illustration

*1	Housing Lock	*2	CPA
*a	Connection is Completed	-	-

HINT:

When engaged, the white housing lock will slide. Be sure not to hold the white housing lock and part (A), as it may result in an insecure fit.

(d) Engage the 2 claws into the body hole and install the front airbag sensor with the 2 bolts.

Torque:

9.0 N·m {92 kgf·cm, 80in·lbf}

NOTICE:

- If the front airbag sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace it with a new one.
- When installing the front airbag sensor, be careful that the SRS wiring does not interfere with or is not pinched between other parts.
- Make sure that the 2 claws (stopper) is securely inserted into the body hole.
- Tighten the bolt while holding the front airbag sensor because the front airbag sensor 2 claws (stopper) is easily damaged.

(e) Check that there is no looseness in the installation parts of the front airbag sensor.

2. INSTALL RADIATOR SIDE DEFLECTOR INFO

3. INSTALL RADIATOR GRILLE INFO

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

5. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000000VPU0BOX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT AIRBAG SENSOR: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

CAUTION:

Be sure to correctly follow the removal and installation procedures for the front airbag sensors.

1. INSPECT FRONT AIRBAG SENSOR (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT FRONT AIRBAG SENSOR (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .

(b) Visually check the front airbag sensors for defects if the front bumper of the vehicle or the area around the bumper is damaged.

(1) The defects are as follows:

- Cracks on the sensor housing
- Dents on the sensor housing
- Chips on the sensor housing
- Cracks or other damage to the connector
- Damage to the serial number

OK:

No defects are found.

HINT:

If any of the defects is found, replace the front airbag sensors with a new one.

3. INSPECT FRONT AIRBAG SENSOR (for Vehicle Involved in Collision and Airbag has Deployed)

(a) When airbags have deployed as the result of a collision, be sure to replace front airbag sensors in the damaged area (anywhere in need of repair).

(b) Visually check the front airbag sensors not front collision defects.

(1) The defects are as follows:

- Cracks on the sensor housing
- Dents on the sensor housing
- Chips on the sensor housing
- Cracks or other damage to the connector
- Damage to the serial number

OK:

No defects are found.

HINT:

If any of the defects is found or a front airbag sensors has detected a major collision, replace the front airbag sensors with a new one.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000VKQ041X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT AIRBAG SENSOR: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing INFO .

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE RADIATOR GRILLE INFO

3. REMOVE RADIATOR SIDE DEFLECTOR INFO

4. REMOVE FRONT AIRBAG SENSOR

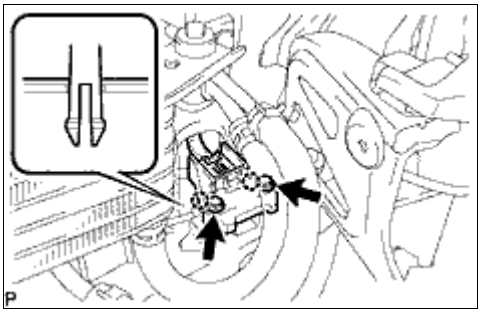
(a) Check that the ignition switch is off.

(b) Check that the cable is disconnected from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Remove the 2 bolts.



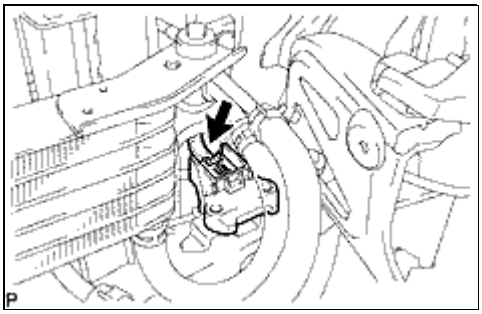
(d) Disengage the 2 claws.

NOTICE:

Loosen the bolt while holding the front airbag sensor because the front airbag sensor 2 claws (stopper) is easily damaged.

(e) Disconnect the connector to remove the front airbag sensor LH.

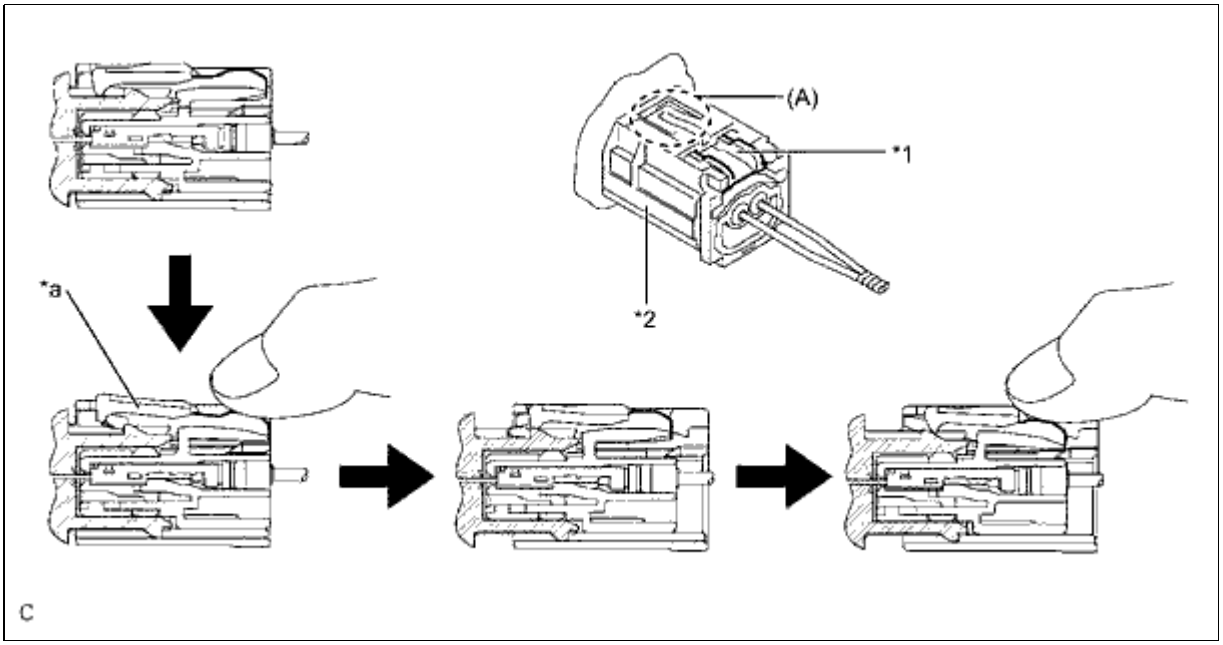
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NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(1) Push down the white housing lock and slide the yellow CPA (At this time, the connector cannot be disconnected yet).



Text in Illustration

*1	Housing Lock	*2	CPA
*a	Connector Lock is Released	-	-

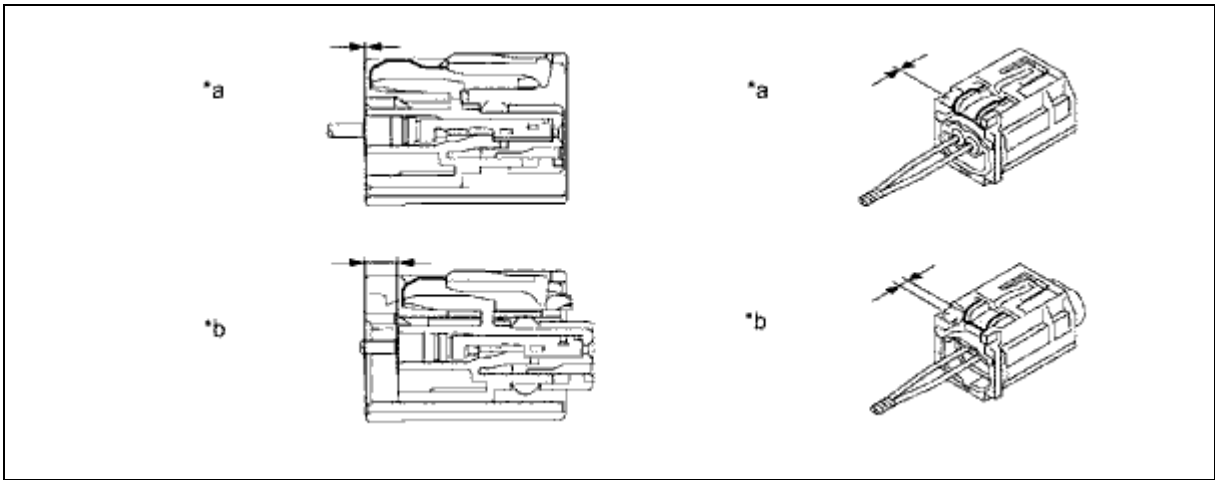
(2) Push down the white housing lock again and disconnect the connector and remove the front airbag sensor LH.

NOTICE:

Do not push down the part (A) shown in the illustration when disconnecting.

(3) After disconnecting the connector, check that the position of the white housing lock is correct as shown in the illustration.

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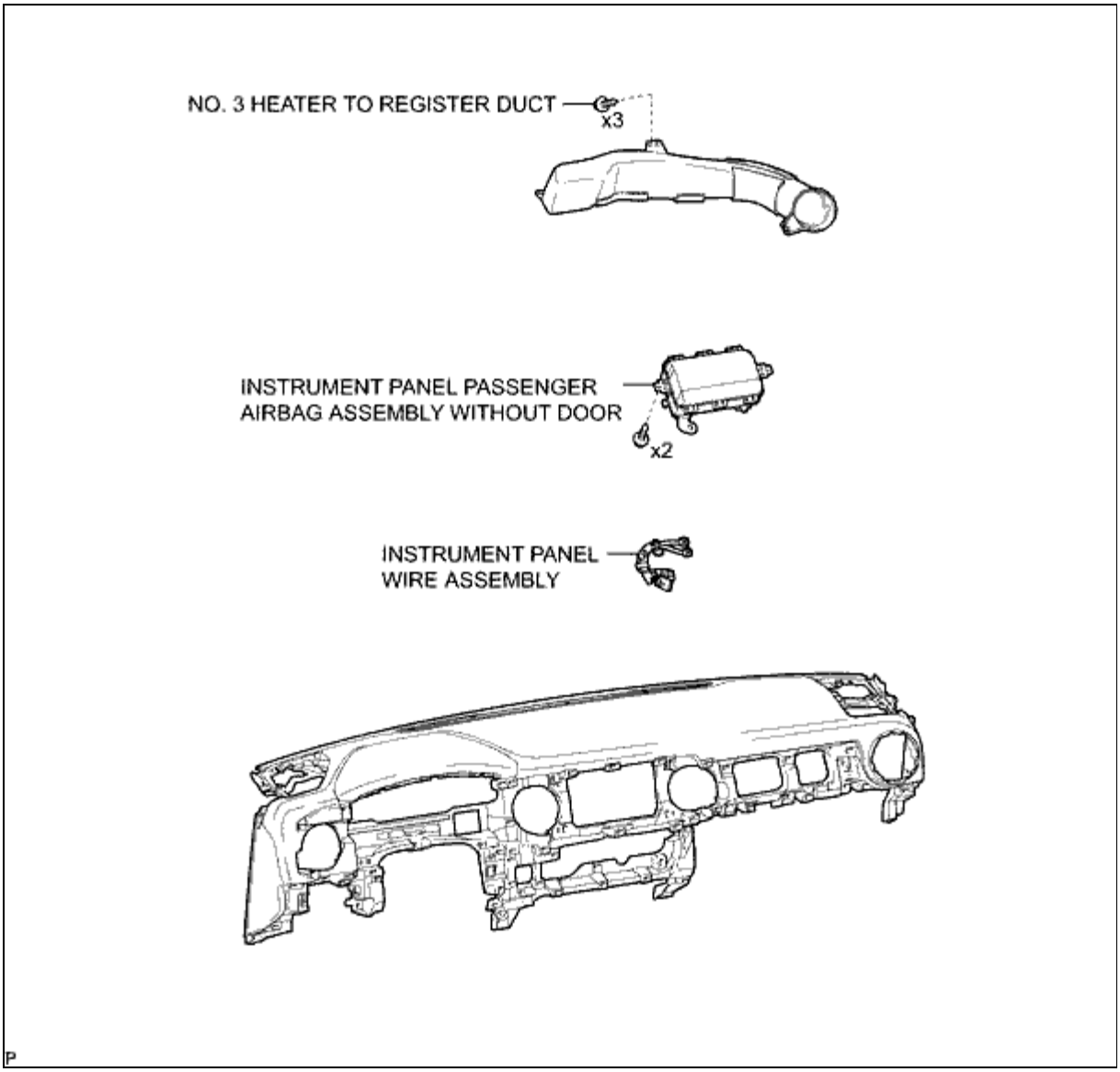
*a	Incorrect	*b	Correct

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000002Y2900BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER AIRBAG ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000002Y2700BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER AIRBAG ASSEMBLY: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Predisposal deployment may be considered hazardous material treatment.

1. PRECAUTION

CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of an instrument panel passenger airbag assembly without door with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the instrument panel passenger airbag assembly without door.
- The instrument panel passenger airbag assembly without door becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling an instrument panel passenger airbag assembly without door with a deployed airbag.
- Do not apply water etc. to an instrument panel passenger airbag assembly without door with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the instrument panel passenger airbag assembly without door, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY WITHOUT DOOR (When Installed in Vehicle)

NOTICE:

- When disposing of the instrument panel passenger airbag assembly without door, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

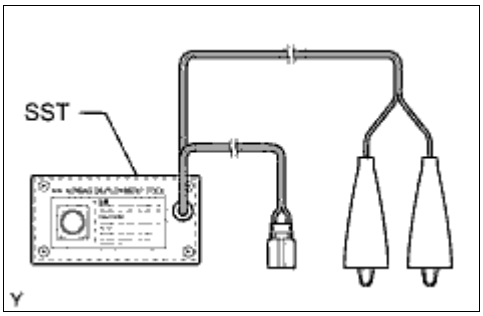
- Prepare a battery as the power source to deploy the airbag.
- In this procedure, the inflator of the instrument panel passenger airbag assembly without door is deployed first. Next, the actuator is deployed.

HINT:

Prepare a battery as the power source to deploy the airbag.

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(a) Check the function of SST INFO .



(b) Read the precaution INFO .

(c) Disconnect the cable from the negative (-) battery terminal.

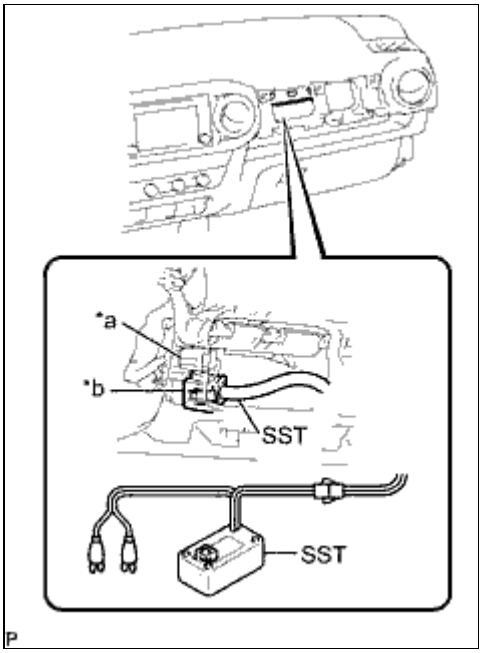
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(d) Remove the lower instrument panel assembly INFO .

(e) Remove the No.2 instrument panel garnish sub-assembly INFO .

(f) Install SST.



(1) Disconnect the 2 connectors.

Text in Illustration

*a	Actuator Side
*b	Inflator Side

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(2) Connect the SST connector to the instrument panel wire assembly (inflator side).

SST: 09082-00700

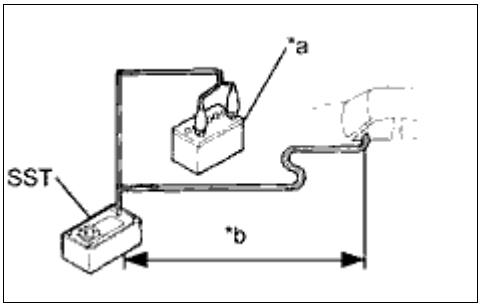
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SST: 09082-00780

NOTICE:

- To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.
- At this time, do not connect SST to the instrument panel wire assembly (actuator side).

(3) Move SST at least 10 m (32.8 ft.) away from the front side window of the vehicle.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(4) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

(5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

(g) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The instrument panel passenger airbag assembly without door becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a instrument panel passenger airbag assembly without door with a deployed airbag.
- Do not apply water etc. to an instrument panel passenger airbag assembly without door with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(3) Disconnect the red clip of SST from the battery positive (+) terminal and the black clip of SST from the negative (-) terminal.

(4) Disconnect the SST (09082-00700) connector from SST (09082-00780).

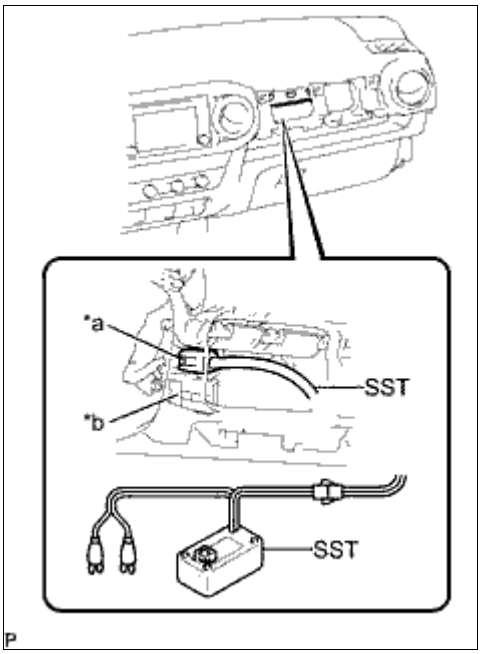
(h) Deploy the instrument panel passenger airbag assembly without door actuator.

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(1) Connect the SST connector to instrument panel wire assembly (actuator side).

Text in Illustration

*a	Actuator Side
*b	Inflator Side



SST: 09082-00700
SST: 09082-00760

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

(2) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to the negative (-) terminal.

(3) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

(4) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The instrument panel passenger airbag assembly without door becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling an instrument panel passenger airbag assembly without door with a deployed airbag.
- Do not apply water etc. to an instrument panel passenger airbag assembly without door with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

3. DISPOSE OF INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY WITHOUT DOOR (When Not Installed in Vehicle)

NOTICE:

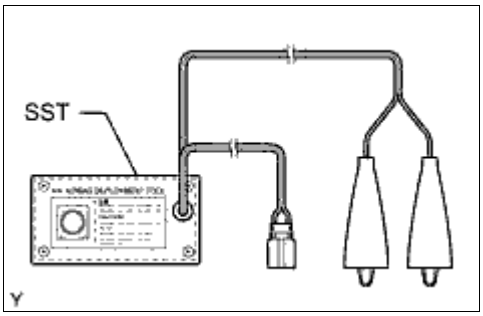
Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

- Prepare a battery as the power source to deploy the airbag.
- In this procedure, the inflator of the instrument panel passenger airbag assembly without door is deployed first. Next, the actuator is deployed.

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(a) Check the function of SST INFO .



(b) Remove the front passenger airbag INFO .

CAUTION:

- When removing the front passenger airbag, work must be started 90 seconds after the ignition switch is turned OFF and the negative (-) terminal cable is disconnected from the battery.
- When storing the front passenger airbag, keep the airbag deployment side facing upward.

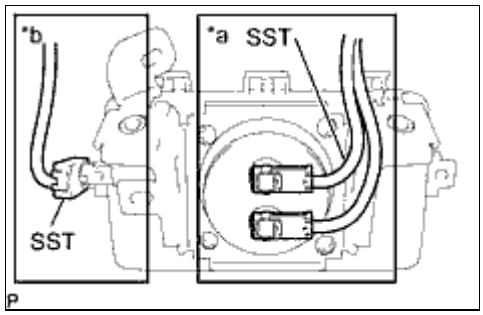
(c) Install SST.

(1) Connect the SST connector to the instrument panel passenger airbag assembly without door inflator side.

SST: 09082-00802

09082-10801

09082-30801



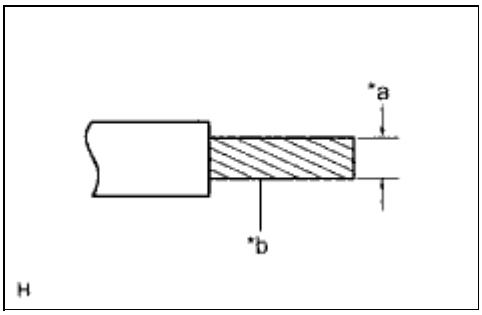
Text in Illustration

*a	Inflator Side
*b	Actuator Side

(2) Connect the SST connector to the instrument panel passenger airbag assembly without door actuator side.

SST: 09082-50800

(d) Using a service-purpose wire harness for the vehicle, tie down the front passenger airbag to the tire.



Text in Illustration

*a	Wire Diameter
*b	Stripped Wire

Wire harness:

Cross-sectional area of stripped wire

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1.25 mm ^{2} or more (0.0019 in. ^{2} or more)

CAUTION:

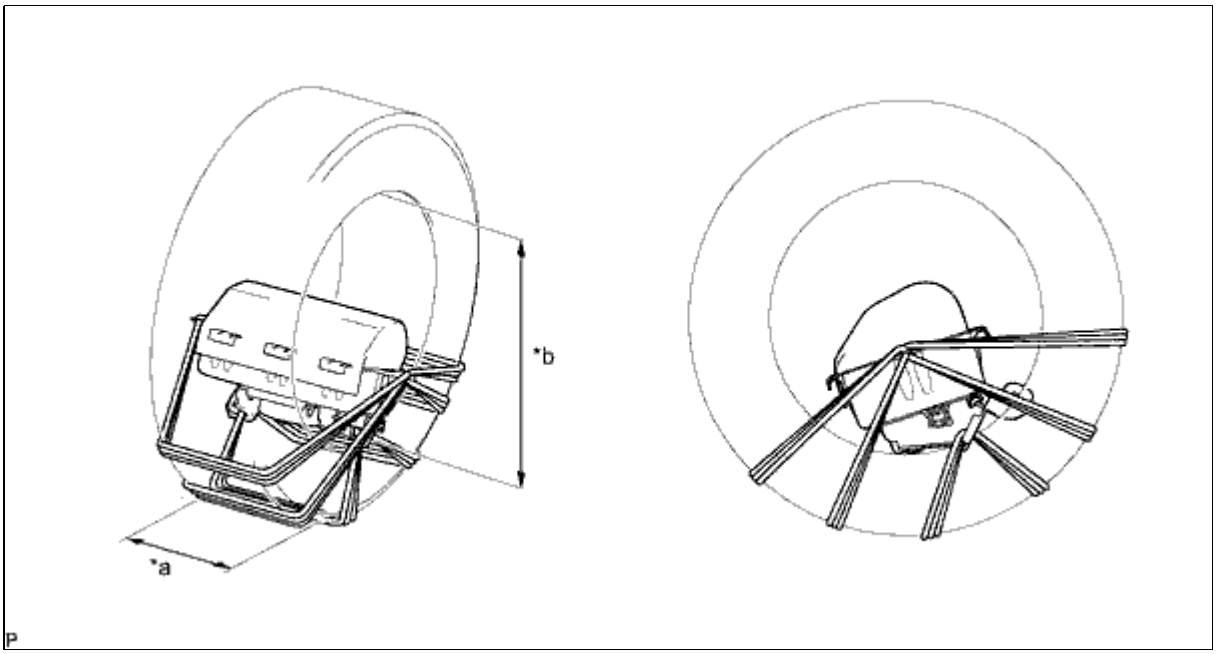
If the wire harness is too thin or an alternative object is used to tie down the front passenger airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm ^{2} (0.00193 in. ^{2}).

HINT:

To calculate the cross-sectional area of the stripped wire section:

Area = 3.14 x (Diameter) ^{2} / 4

(1) Position the front passenger airbag inside the tire with the airbag deployment side facing inside.



Text in Illustration

*a	Width	*b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (1.18 ft.)

(2) Tie the front passenger airbag to the tire with several wire harnesses.

CAUTION:

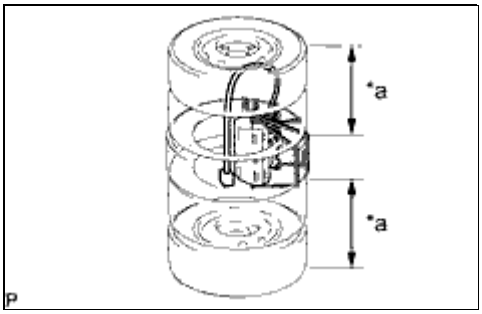
- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the front passenger airbag may become loose due to the shock when the airbag is deployed.
- Always tie down the front passenger airbag with the airbag deployment side facing inside the tire.

NOTICE:

As the tires may be damaged by the airbag deployment, use a tire that you are planning to throw away.

(e) Place the tires.

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(1) Place at least 2 tires under the tire which the front passenger airbag is tied to.

Text in Illustration

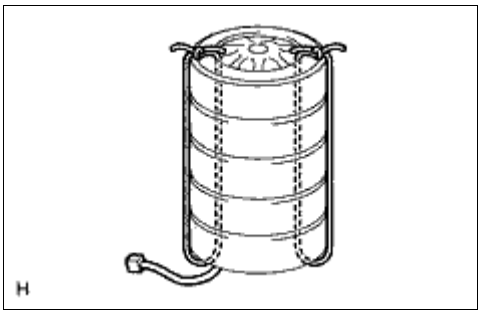
*a	Tire (2 or more)

(2) Place at least 2 tires over the tire which the front passenger airbag is tied to. The top tire should have a disc wheel installed.

NOTICE:

- Do not place the SST connector under the tire because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use a tire that you are planning to throw away.

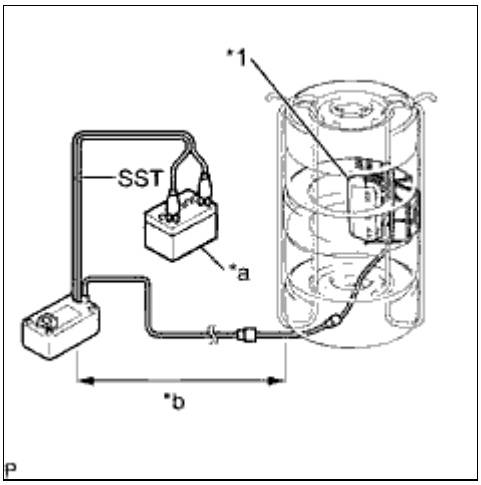
(3) Tie the tires together with 2 wire harnesses.



CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

(f) Install SST.



(g) Deploy the instrument panel passenger airbag assembly without door inflator.

(1) Connect the SST (09082-00700) connector to SST (09082-10801).

Text in Illustration

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*1	Instrument Panel Passenger Airbag Assembly without Door
*a	Battery
*b	10 m (32.8 ft.) or more

NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for SST wire harness inside the tire.

(2) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to the battery negative (-) terminal.

(3) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the instrument panel passenger airbag assembly without door is tied to.

(4) Press the SST activation switch and deploy the instrument panel passenger airbag assembly without door inflator.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(5) Disconnect the red clip of SST from the battery positive (+) terminal and the black clip of SST from the negative (-) terminal.

(6) Disconnect the SST (09082-10801) connector from SST (09082-30801).

(h) Deploy the instrument panel passenger airbag assembly without door actuator.

(1) Connect the SST (09082-10801) connector to SST (09080-50800).

NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for SST wire harness inside the tire.

(2) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to the battery negative (-) terminal.

(3) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the instrument panel passenger airbag assembly without door is tied to.

(4) Press the SST activation switch and deploy the instrument panel passenger airbag assembly without door actuator.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(i) Dispose of the front passenger airbag.

CAUTION:

- The front passenger airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front passenger airbag with a deployed airbag.
- Do not apply water to a front passenger airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the front passenger airbag from the tire.

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(2) Dispose of front passenger airbag, according to local regulations.

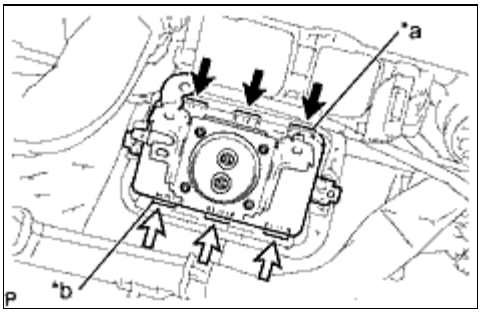
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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002Y2800QX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER AIRBAG ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY WITHOUT DOOR

(a) Engage the 3 hooks (B).



Text in Illustration

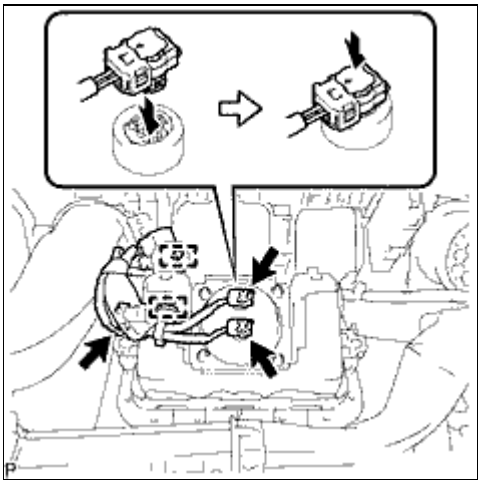
*a	Hooks (A)
*b	Hooks (B)

(b) Engage the 3 hooks (A) to install the instrument panel passenger airbag assembly without door on the instrument panel.

(c) Install the 2 screws.

2. INSTALL INSTRUMENT PANEL WIRE ASSEMBLY

(a) Engage the 2 clamps to install the instrument panel wire assembly.



(b) Connect the 3 airbag connectors.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(c) Push in the 3 airbag connector locks to install the 3 airbag connectors.

3. INSTALL NO.3 HEATER TO REGISTER DUCT INFO

4. INSTALL INSTRUMENT PANEL SUB-ASSEMBLY

INFO

(See page @@@@@)

5. INSPECT SRS WARNING LIGHT

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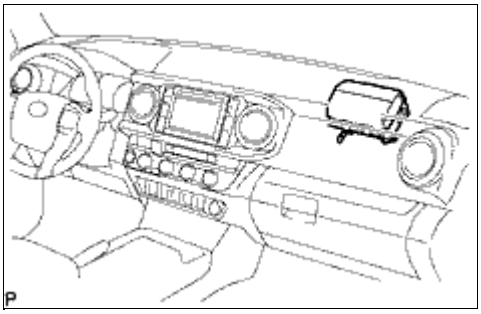
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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000002Y2B00BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER AIRBAG ASSEMBLY: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY WITHOUT DOOR (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

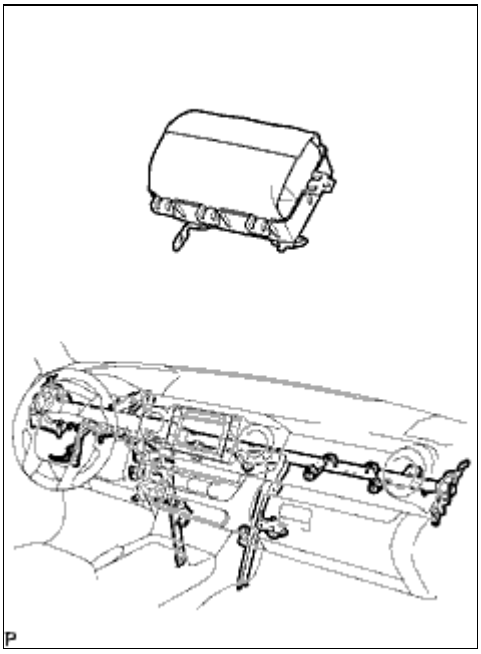


(b) With the instrument panel passenger airbag assembly without door installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the instrument panel with a new one:

Cuts, minute cracks or marked discoloration on the instrument panel around the instrument panel passenger airbag assembly without door.

2. INSPECT INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY WITHOUT DOOR (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .



(b) With the instrument panel passenger airbag assembly without door removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the instrument panel passenger airbag assembly without door, instrument panel or instrument panel reinforcement with a new one:

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- Cuts, minute cracks or marked discoloration on the instrument panel passenger airbag assembly without door.
- Cracks or other damage to the connectors.
- Deformation or cracks on the instrument panel or instrument panel reinforcement.

CAUTION:

For removal and installation procedures of the instrument panel passenger airbag assembly without door, be sure to follow the correct procedure.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002Y2A00QX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER AIRBAG ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

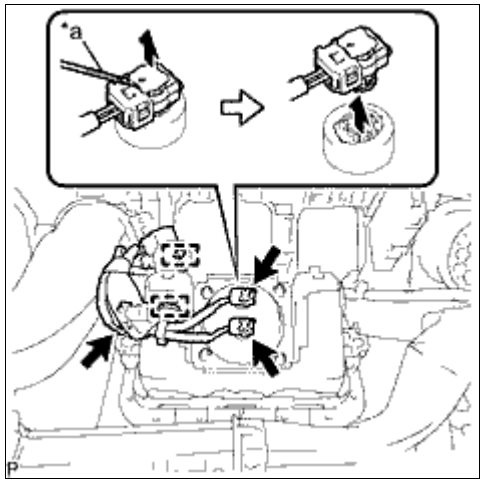
REMOVAL

1. REMOVE INSTRUMENT PANEL SUB-ASSEMBLY

INFO

2. REMOVE NO. 3 HEATER TO REGISTER DUCT INFO

3. REMOVE INSTRUMENT PANEL WIRE ASSEMBLY



(a) Using a screwdriver with its tip wrapped in protective tape, release the 3 airbag connector locks.

Text in Illustration

*a	Protective Tape

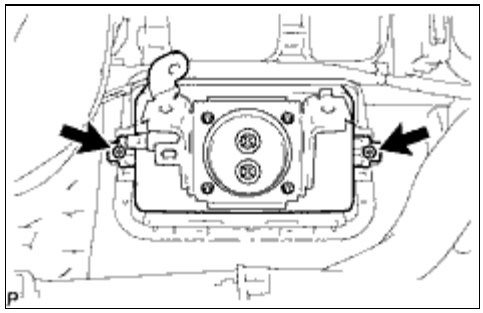
(b) Disconnect the 3 airbag connectors.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(c) Disengage the 2 clamps to remove the instrument panel wire assembly.

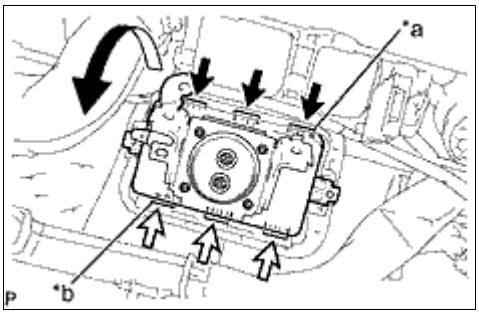
4. REMOVE INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY WITHOUT DOOR



(a) Remove the 2 screws.

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(b) Disengage the 3 hooks (A).



Text in Illustration

*a	Hooks (A)
*b	Hooks (B)

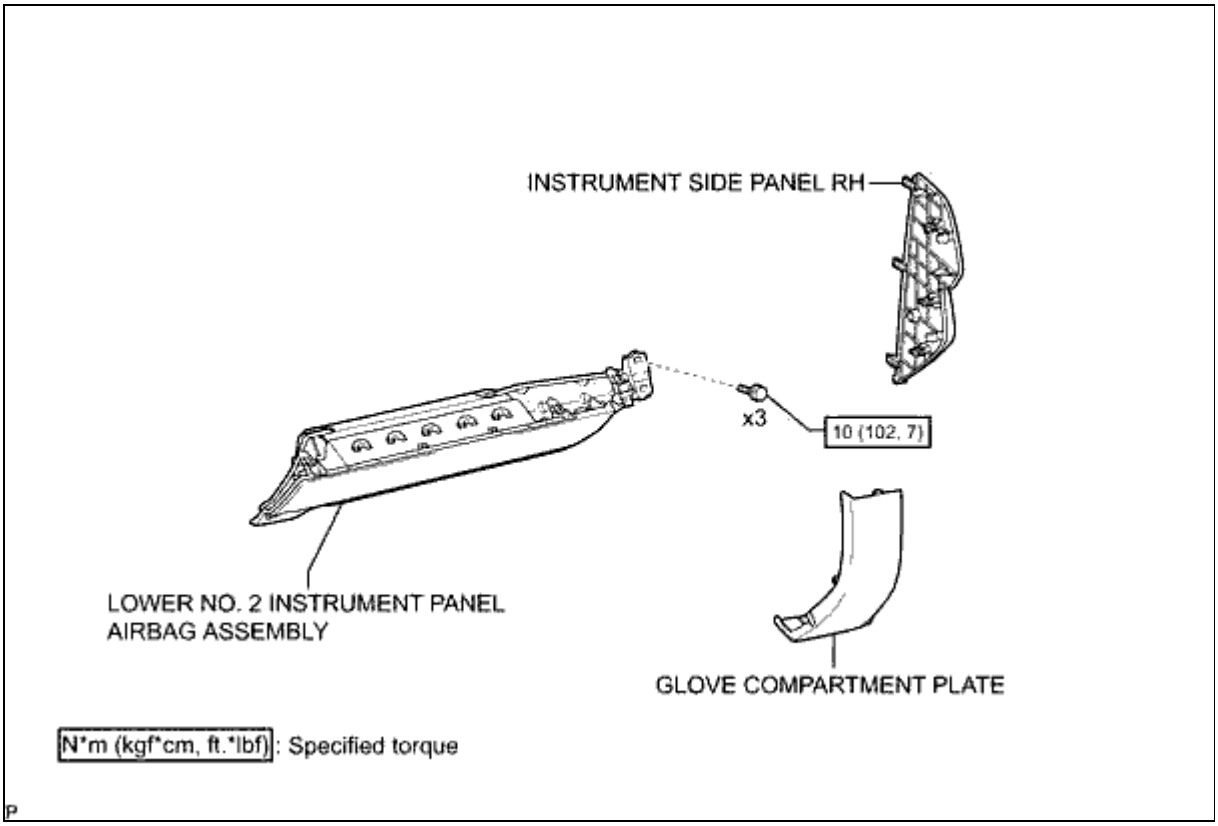
(c) Disengage the 3 hooks (B) to remove the instrument panel passenger airbag assembly without door from the instrument panel.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000003QJ600UX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000003QJ401JX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Predisposal deployment may be considered hazardous material treatment.

1. PRECAUTION

CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of a lower No. 2 instrument panel airbag assembly with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the lower No. 2 instrument panel airbag assembly.
- The lower No. 2 instrument panel airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 2 instrument panel airbag assembly with a deployed airbag.
- Do not apply water etc. to a lower No. 2 instrument panel airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the lower No. 2 instrument panel airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (When Installed in Vehicle)

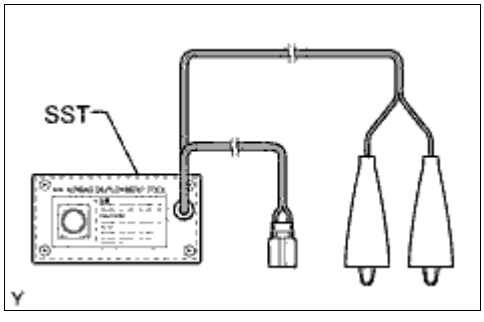
NOTICE:

- When disposing of the lower No. 2 instrument panel airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST INFO .



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(b) Read the precaution INFO .

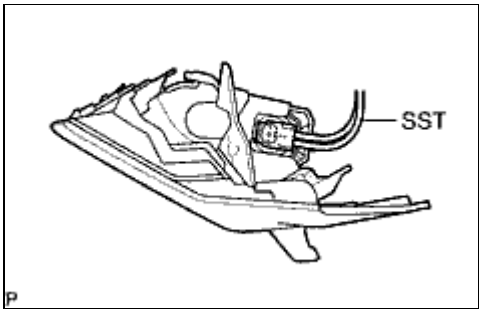
(c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(d) Remove the lower No. 2 instrument panel airbag assembly INFO .

(e) Install SST.



(1) Connect SST connector to the lower No. 2 instrument panel airbag assembly.

SST: 09082-00700

SST: 09082-00802

09082-10801

09082-20801

NOTICE:

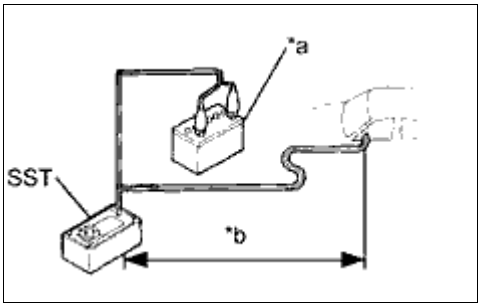
To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

(2) Install the lower No. 2 instrument panel airbag assembly INFO .

NOTICE:

Take care not to damage SST wire harness.

(3) Move SST at least 10 m (32.8 ft.) away from the vehicle front side window.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(4) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

(5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

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(2) Press SST activation switch to deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The lower No. 2 instrument panel airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 2 instrument panel airbag assembly with a deployed airbag.
- Do not apply water etc. to a lower No. 2 instrument panel airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

3. DISPOSE OF LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (When Not Installed in Vehicle)

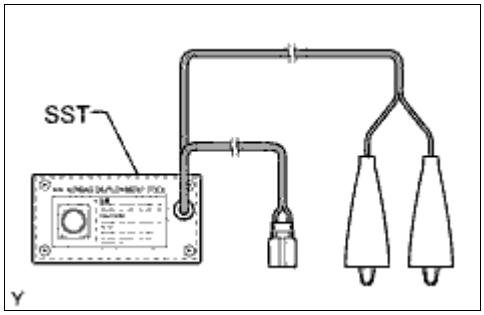
NOTICE:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST INFO .

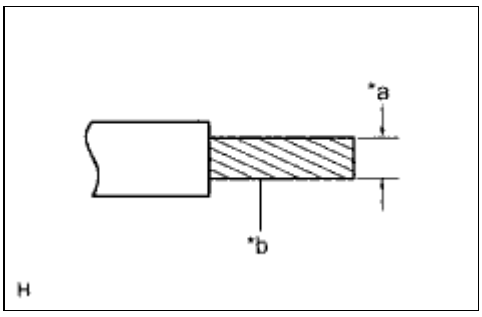


(b) Remove the lower No. 2 instrument panel airbag assembly INFO .

CAUTION:

- When removing the lower No. 2 instrument panel airbag assembly, wait at least 90 seconds after the ignition switch is turned off and the cable is disconnected from the negative (-) battery terminal before starting work.
- When storing the lower No. 2 instrument panel airbag assembly, keep the airbag deployment side facing upward.

(c) Using a service-purpose wire harness for the vehicle, tie down the lower No. 2 instrument panel airbag assembly to a tire.



Text in Illustration

*a	Wire Diameter

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*b	Stripped Wire

Wire:

Cross-sectional area of stripped wire

1.25 mm ^{2} or more (0.0019 in. ^{2} or more)

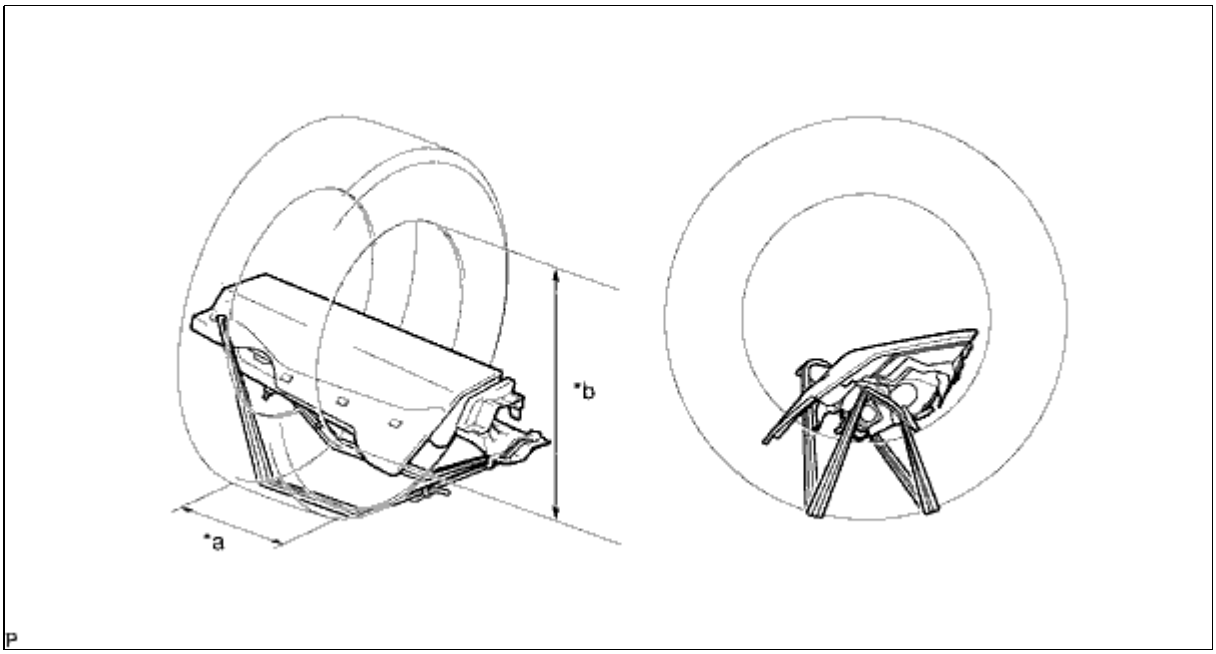
CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the lower No. 2 instrument panel airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm ^{2} (0.00192 in. ^{2}).

HINT:

To calculate the cross-sectional area of the stripped wire section: Area = 3.14 x (Diameter) ^{2} / 4

(1) Position the lower No. 2 instrument panel airbag assembly inside a tire with the airbag deployment side facing inside.



Text in Illustration

*a	Width	*b	Inner Diameter

Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (14.2 in.)

(2) Tie the lower No. 2 instrument panel airbag assembly to the tire with several wire harnesses.

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the lower No. 2 instrument panel airbag assembly may become loose due to the shock when the airbag is deployed.
- Always tie down the lower No. 2 instrument panel airbag assembly with the airbag deployment side facing inside the tire.

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NOTICE:

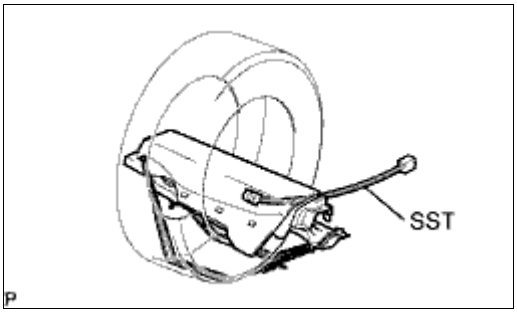
As the tire may be damaged by the airbag deployment, use a tire that you are planning to throw away.

(d) Connect SST connector to the lower No. 2 instrument panel airbag assembly.

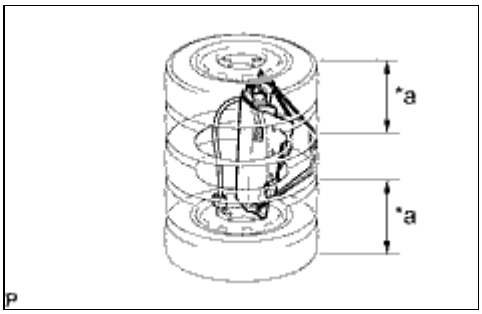
SST: 09082-00802

09082-10801

09082-20801



(e) Place tires.



(1) Place at least 2 tires under the tire which the lower No. 2 instrument panel airbag assembly is tied to.

Text in Illustration

*a	Tire (2 or more)

(2) Place at least 2 tires over the tire which the lower No. 2 instrument panel airbag assembly is tied to. The top tire should have a disc wheel installed.

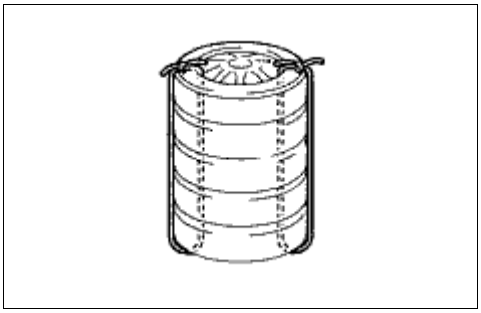
NOTICE:

- Do not place SST connector under the tires because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use tires that you are planning to throw away.

(3) Tie the tires together with 2 wire harnesses.

CAUTION:

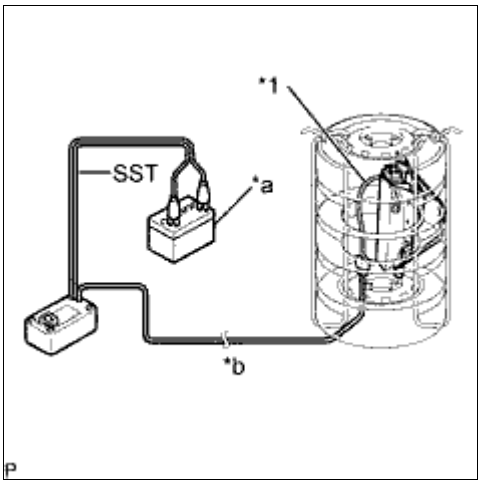
Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.



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(f) Connect SST connector.

SST: 09082-00700



NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for SST wire harness inside the tires.

(g) Deploy the airbag.

(1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

Text in Illustration

*1	Lower No. 2 Instrument Panel Airbag Assembly
*a	Battery
*b	10 m (32.8 ft.) or more

(2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the lower No. 2 instrument panel airbag assembly is tied to.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(h) Dispose of the lower No. 2 instrument panel airbag assembly.

CAUTION:

- The lower No. 2 instrument panel airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a lower No. 2 instrument panel airbag assembly with a deployed airbag.
- Do not apply water to a lower No. 2 instrument panel airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the lower No. 2 instrument panel airbag assembly from the tire.

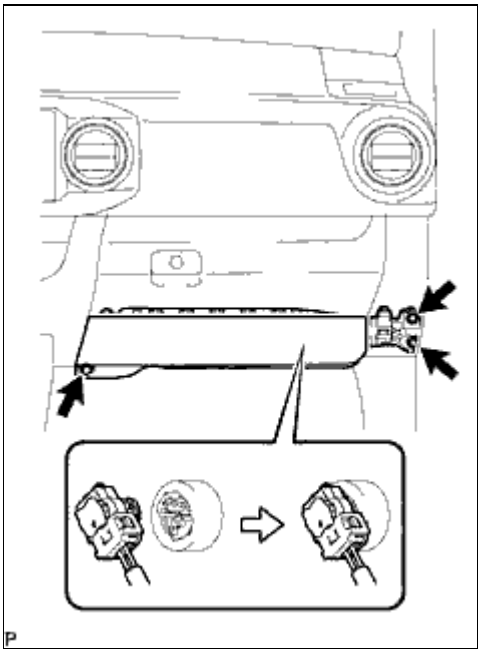
(2) Dispose of lower No. 2 instrument panel airbag assembly, according to local regulations.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000003QJ501XX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Connect the airbag connector.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(b) Push in the airbag connector lock to install the airbag connector.

(c) Install the lower No. 2 instrument panel airbag assembly with the 3 bolts.

Torque:

10 N·m {102 kgf·cm, 7ft·lbf}

2. INSTALL GLOVE COMPARTMENT PLATE INFO

3. INSTALL INSTRUMENT SIDE PANEL RH INFO

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

5. INSPECT SRS WARNING LIGHT

INFO

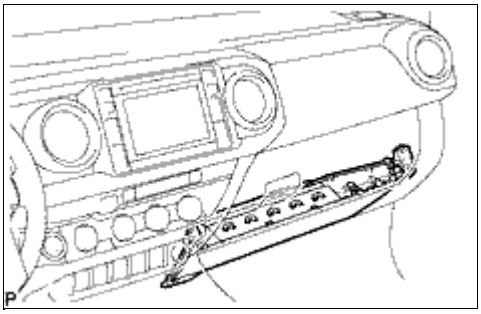
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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000003QJ801IX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

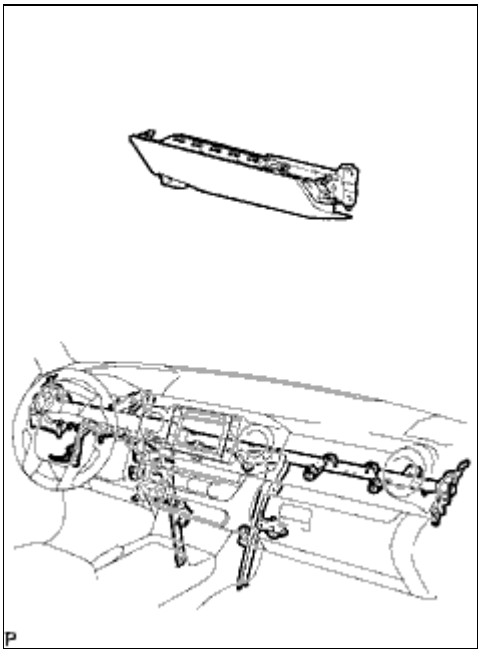


(b) With the lower No. 2 instrument panel airbag assembly installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 2 instrument panel airbag assembly with a new one:

Cuts, minute cracks or marked discoloration on the lower No. 2 instrument panel airbag assembly.

2. INSPECT LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .



(b) With the lower No. 2 instrument panel airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the lower No. 2 instrument panel airbag assembly with a new one:

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- Cuts, minute cracks or marked discoloration on the lower No. 2 instrument panel airbag assembly.
- Cracks or other damage to the connector.
- Deformation or cracks on the instrument panel reinforcement.

CAUTION:

For removal and installation procedures of the lower No. 2 instrument panel airbag assembly, be sure to follow the correct procedure.





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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000003QJ701YX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT PASSENGER SIDE KNEE AIRBAG ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

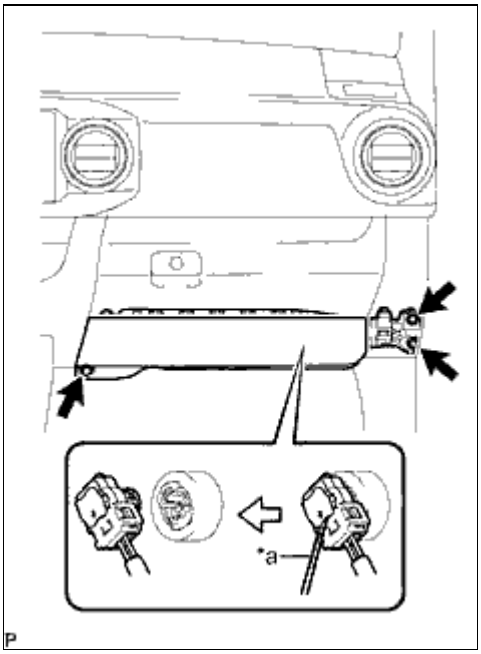
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. REMOVE INSTRUMENT SIDE PANEL RH INFO

3. REMOVE GLOVE COMPARTMENT PLATE INFO

4. REMOVE LOWER NO. 2 INSTRUMENT PANEL AIRBAG ASSEMBLY



(a) Remove the 3 bolts.

Text in Illustration

*a	Protective Tape

(b) Using a screwdriver with its tip wrapped in protective tape, release the airbag connector lock.

(c) Disconnect the airbag connector to remove the lower No. 2 instrument panel airbag assembly.

NOTICE:

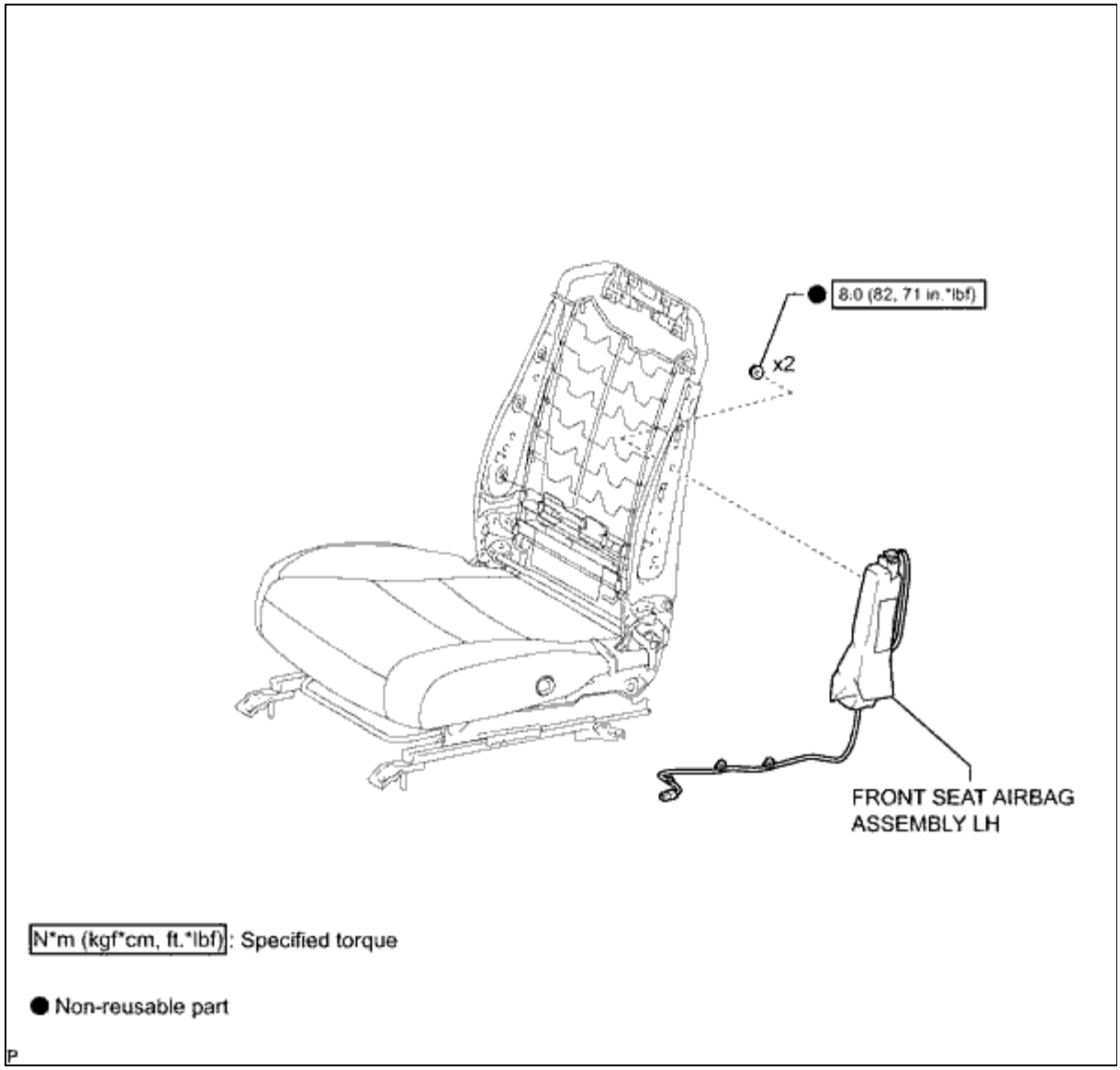
When handling the airbag connector, take care not to damage the airbag wire harness.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000002XEX00UX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT SEAT SIDE AIRBAG ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000002Y2J019X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT SEAT SIDE AIRBAG ASSEMBLY: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of a front seat airbag assembly with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the front seat airbag assembly.
- The front seat airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat airbag assembly with a deployed airbag.
- Do not apply water etc. to a front seat airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the front seat airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF FRONT SEAT AIRBAG ASSEMBLY (When Installed in Vehicle)

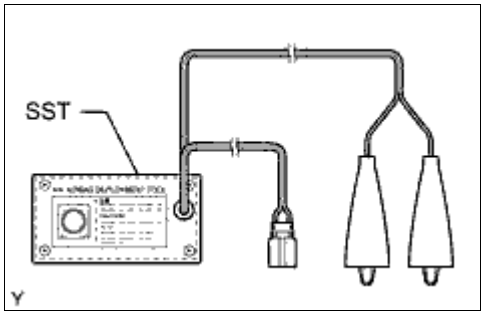
NOTICE:

- When disposing of the front seat airbag assembly, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST INFO .



(b) Read the precaution INFO .

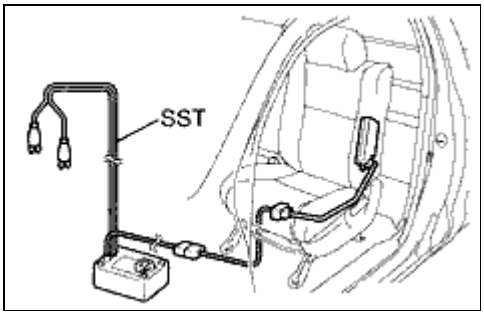
(c) Disconnect the cable from the negative (-) battery terminal.

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CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(d) Install SST.



(1) Disconnect the connector (yellow colored) from the front seat airbag assembly.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

(2) Connect SST connector to the front seat airbag assembly connector.

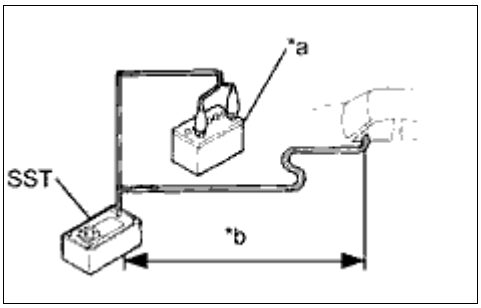
SST: 09082-00700

SST: 09082-00820

NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock.

(3) Move SST at least 10 m (32.8 ft.) away from the front side window of the vehicle.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(4) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

(5) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

(e) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The front seat airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat airbag assembly with a deployed airbag.

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- Do not apply water etc. to a front seat airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of SST activation switch comes on.

3. DISPOSE OF FRONT SEAT AIRBAG ASSEMBLY (When Not Installed in Vehicle)

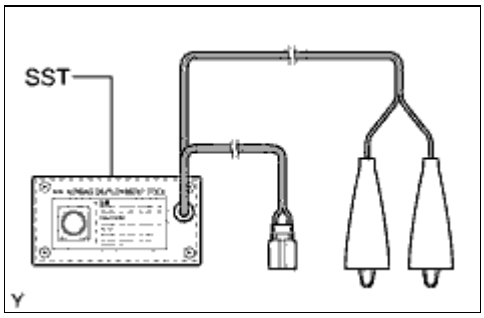
NOTICE:

Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

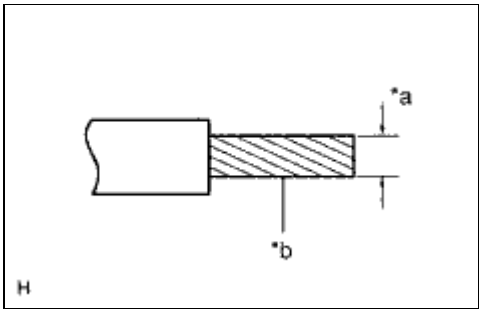
Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST INFO .



(b) Remove the front seat airbag assembly INFO .

(c) Using a service-purpose wire harness for the vehicle, tie down the front seat airbag assembly to the tire.



Text in Illustration

*a	Wire Diameter
*b	Stripped Wire

Wire:

Cross-sectional area of stripped wire:

1.25 mm ^{2} (0.00193 in. ^{2}) or more

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the curtain shield airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm ^{2} (0.00193 in. ^{2}).

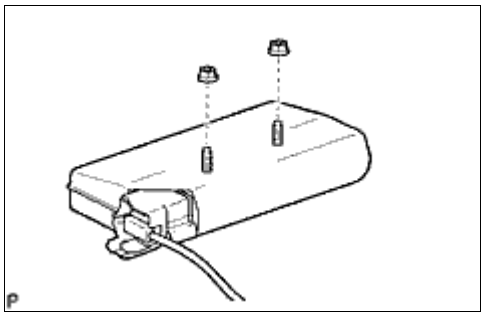
HINT:

To calculate the cross-sectional area of the stripped wire section:

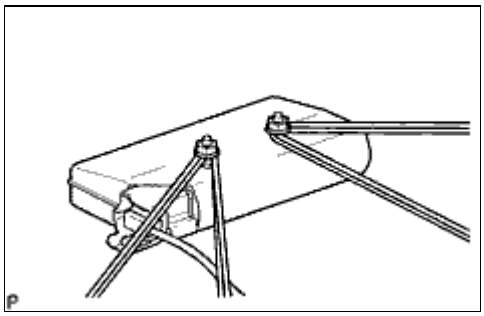
Area = 3.14 x (Diameter) ^{2} / 4

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(1) Install the 2 nuts to the front seat airbag assembly.



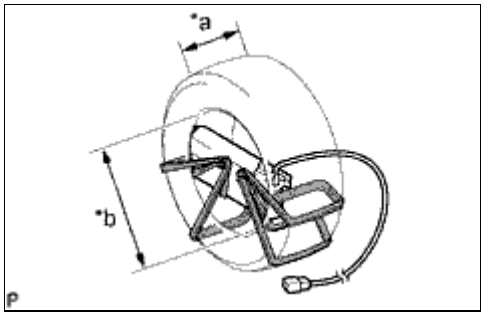
(2) Wind the wire harness around the stud bolts of the front seat airbag assembly as shown in the illustration.



(3) Position the front seat airbag assembly inside the tire.

Text in Illustration

*a	Width
*b	Inner diameter



Tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (1.18 ft.)

CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the front seat airbag assembly may become loose due to the shock when the airbag is deployed.
- Always tie down the front seat airbag assembly with the airbag deployment direction facing inside the tire.

NOTICE:

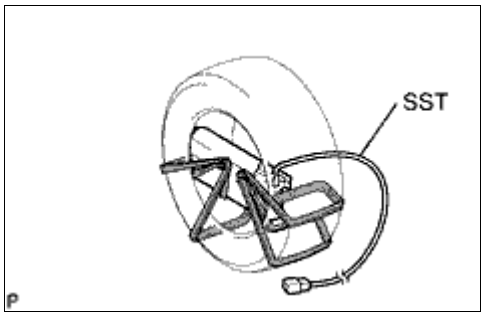
As the tires may be damaged by the airbag deployment, use a tire that you are planning to throw away.

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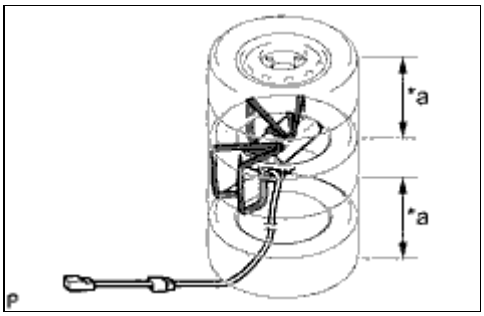
(d) Install SST.

(1) Connect SST connector to the front seat airbag assembly connector.

SST: 09082-00820



(e) Place the tires.



(1) Place at least 2 tires under the tire which the front seat airbag assembly is tied to.

Text in Illustration

*a	Tire (2 or more)

(2) Place at least 2 tires over the tire which the front seat airbag assembly is tied to. The top tire should have the disc wheel installed.

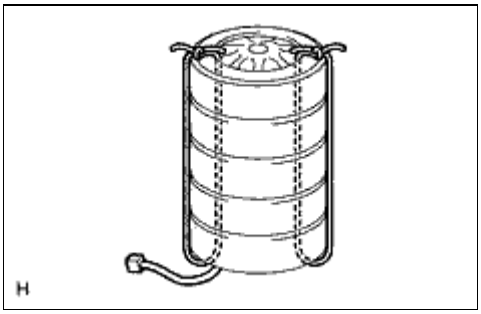
NOTICE:

- Do not place SST connector under the tire because it could be damaged.
- As the disc wheel may be damaged by the airbag deployment, use a disc wheel that you are planning to throw away.
- As the tires may be damaged by the airbag deployment, use a tire that you are planning to throw away.

(3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harnesses results in the tires coming free due to the shock when the airbag is deployed.

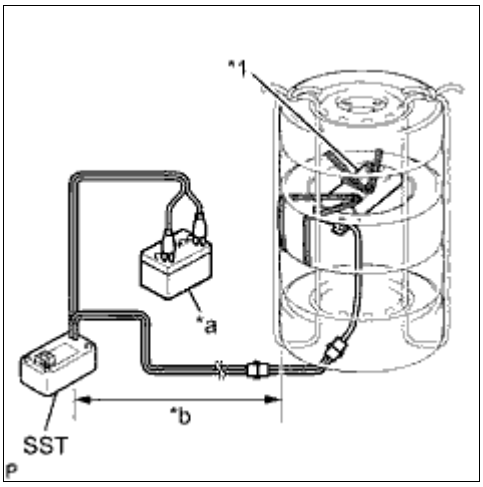


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(f) Install SST.

(1) Connect SST connector.

SST: 09082-00700



NOTICE:

To avoid damaging SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for SST wire harness inside the tire.

(g) Deploy the airbag.

(1) Connect the red clip of SST to the battery positive (+) terminal and the black clip of SST to the battery negative (-) terminal.

Text in Illustration

*1	Front Seat Airbag Assembly
*a	Battery
*b	10 m (32.8 ft.) or more

(2) Check that no one is within a 10 m (32.8 ft.) radius of the tire which the front seat airbag assembly is tied to.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

(h) Dispose of the front seat airbag assembly.

CAUTION:

- The front seat airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat airbag assembly with a deployed airbag.
- Do not apply water to a front seat airbag assembly with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the front seat airbag assembly from the tire.

(2) Dispose of front seat airbag assembly, according to local regulations.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002XEV00YX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT SEAT SIDE AIRBAG ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

CAUTION:

Wear protective gloves. Sharp areas on the parts may injure your hands.

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL FRONT SEAT AIRBAG ASSEMBLY LH

CAUTION:

- The nuts must not be reused.
- Make sure that the seat frame assembly is not deformed. If it is, replace it with a new one.

(a) Install the front seat airbag assembly LH with 2 new nuts.

Torque:

8.0 N·m {82 kgf·cm, 71in·lbf}

(b) Engage the clamp.

2. INSTALL SEATBACK COVER WITH PAD

INFO

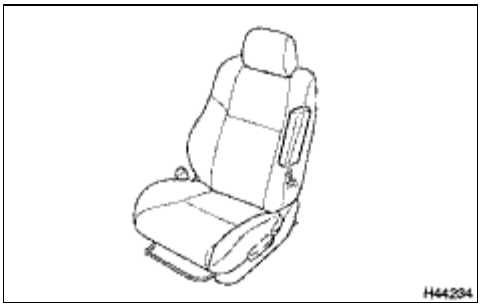
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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000002Y2K016X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT SEAT SIDE AIRBAG ASSEMBLY: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT FRONT SEAT AIRBAG ASSEMBLY LH (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

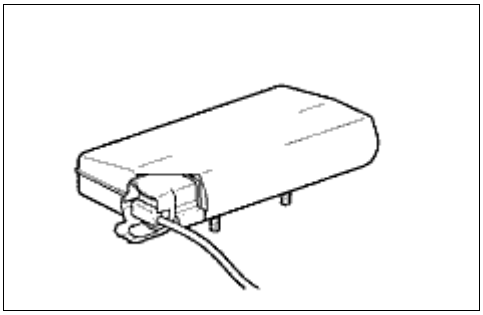


(b) With the front seat airbag assembly LH installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat with a new one:

Cuts, minute cracks or marked discoloration on the front seatback around the front seat airbag assembly LH.

2. INSPECT FRONT SEAT AIRBAG ASSEMBLY LH (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .



(b) With the front seat airbag assembly LH removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat airbag assembly LH with a new one:

- Cuts, minute cracks or marked discoloration on the front seat airbag assembly LH.
- Cracks or other damage to the wire harness or connector.

CAUTION:

For removal and installation procedures of the front seat airbag assembly LH, be sure to follow the correct procedure.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002XEY00YX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: FRONT SEAT SIDE AIRBAG ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

CAUTION:

- Be sure to read Precaution thoroughly before servicing INFO .
- If the side airbag was deployed, replace the front seat airbag assembly LH, front seatback cover and front seat frame with adjuster assembly with the necessary parts in accordance with the extent of the collision damage.
- Wear protective gloves. Sharp areas on the parts may injure your hands.

HINT:

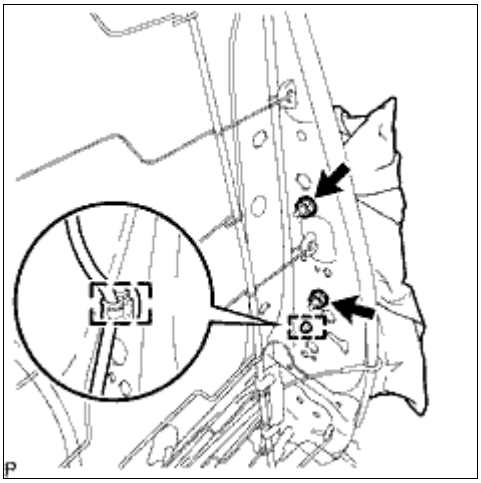
- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. REMOVE SEATBACK COVER WITH PAD

INFO

2. REMOVE FRONT SEAT AIRBAG ASSEMBLY LH

(a) Disengage the clamp.



(b) Remove the 2 nuts and front seat airbag assembly LH.

CAUTION:

- The nuts must not be reused.
- Make sure that the front seatback main frame sub-assembly is not deformed. If it is, replace it with a new one.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM00000166J00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION ECU: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM00000166I00DX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION ECU: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL OCCUPANT DETECTION ECU

(a) Check that the ignition switch is OFF.

(b) Check that the cable is disconnected from the battery negative (-) terminal is disconnected.

CAUTION:

After removing the cable from the terminal, wait for at least 90 seconds before starting the operation.

(c) Engage the claw to install the occupant detection ECU.

NOTICE:

- If the occupant detection ECU has been dropped, or there are cracks, dents or other defects in the case or connector, replace it with a new one.
- When installing the occupant detection ECU, make sure that the SRS wiring does not interfere with any other parts and that it is not pinched between other parts.

(d) Connect the 2 connectors to the occupant detection ECU.

2. INSTALL FRONT SEAT ASSEMBLY RH

INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. OCCUPANT DETECTION ECU INITIALIZATION

INFO

5. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM00000166L00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION ECU: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT OCCUPANT DETECTION ECU (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT OCCUPANT DETECTION ECU (for Vehicle Involved in Collision)

(a) Perform a diagnostic system check INFO .

(b) Even if the airbag was not deployed, perform a visual check for damage to the occupant detection ECU. If there are any defects as mentioned below, replace the occupant detection ECU with a new one:

- Cracks, dents or chips in the case.
- Cracks or other damage to the connector.

CAUTION:

For removal and installation procedures of the occupant detection ECU, INFO , and INFO . be sure to follow the correct procedure.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM00000166K00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION ECU: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. PRECAUTION

INFO

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

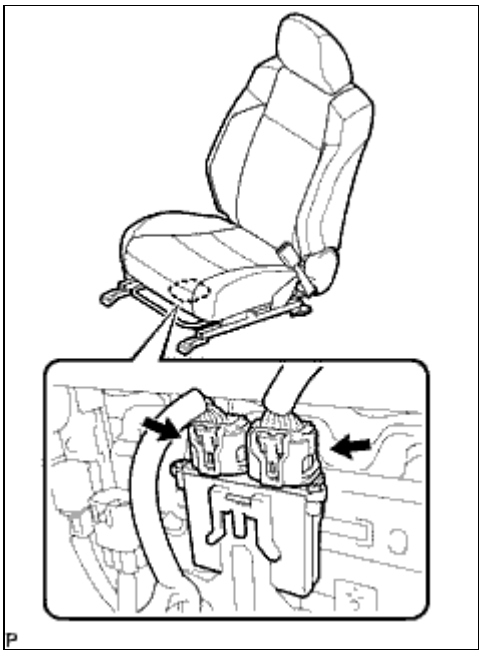
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

3. REMOVE FRONT SEAT ASSEMBLY RH

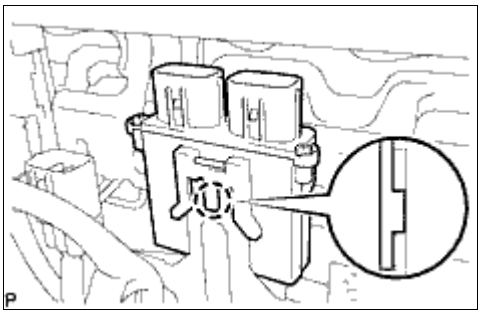
INFO

4. REMOVE OCCUPANT DETECTION ECU



(a) Disconnect the 2 connectors from the occupant detection ECU.

(b) Disengage the claw to remove the occupant detection ECU.



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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM0000010V60CBX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1771; Passenger Side Buckle Switch Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1771**	**Passenger Side Buckle Switch Circuit Malfunction**

DESCRIPTION

The passenger side buckle switch circuit consists of the occupant detection ECU and the front seat inner belt assembly RH.

DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit.

Troubleshoot DTC B1771 first when DTCs B1771 and B1795 are output simultaneously.

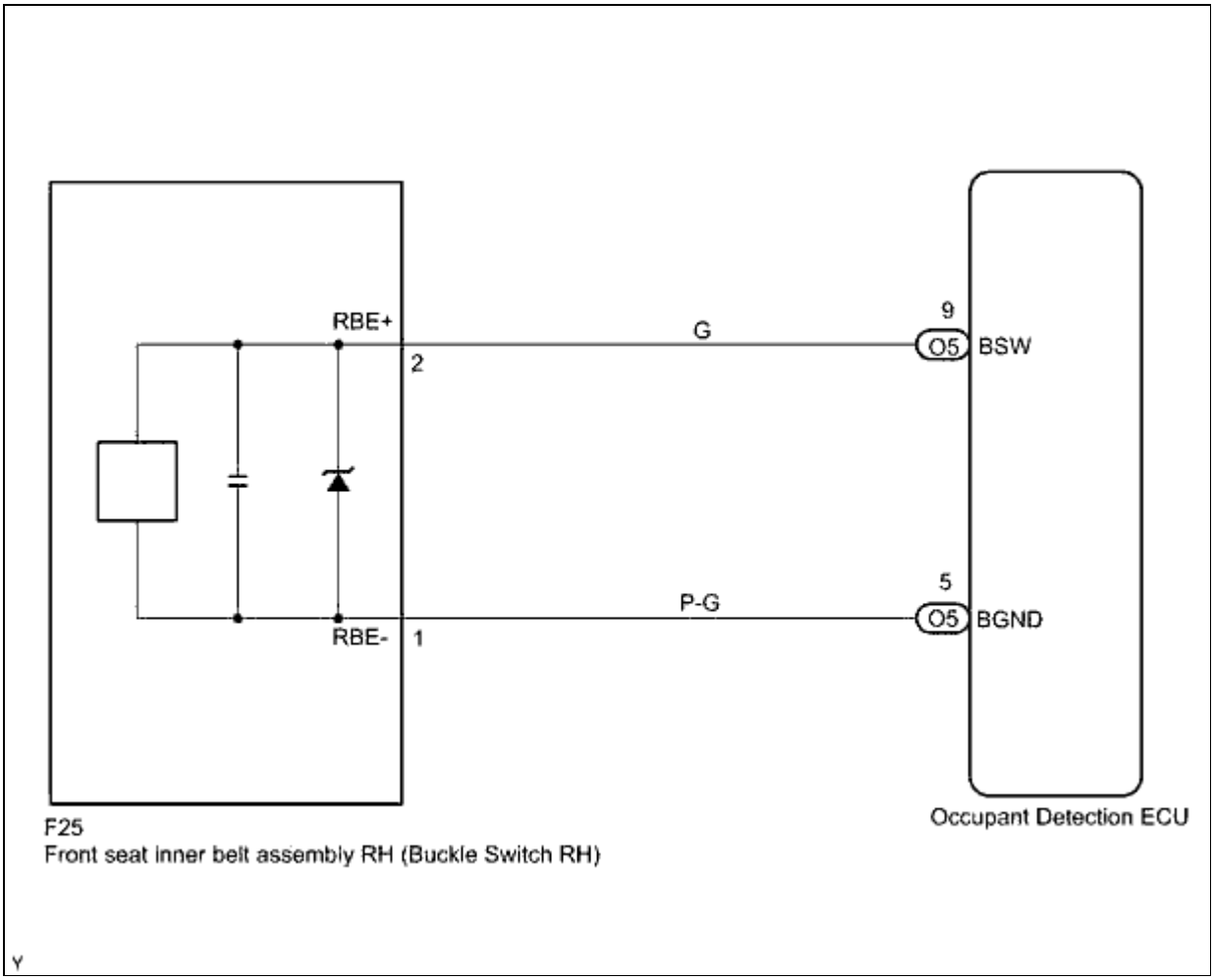
DTC NO.	DTC DETECTING CONDITION	TROUBLE AREA
B1771	• Occupant detection ECU detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in the passenger side buckle switch circuit for 2 seconds • Passenger side buckle switch malfunction • Occupant detection ECU malfunction	• No .1 seat wire • Floor wire • Front seat inner belt assembly RH (Buckle switch RH) • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1771 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTC cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

HINT:

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

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the on position.

(b) Clear the DTCs stored in the memory INFO .

HINT:

First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.

(c) Turn the ignition switch to the lock position.

(d) Turn the ignition switch to the on position.

(e) Check the DTCs INFO .

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OK:

DTC B1771 is not output.

HINT:

Codes other than DTC B1771 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

2.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch to the lock position.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the front seat inner belt assembly RH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK
▼

3.	**CHECK CONNECTORS**

(a) Check that the connectors (on the occupant detection ECU side and buckle switch RH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

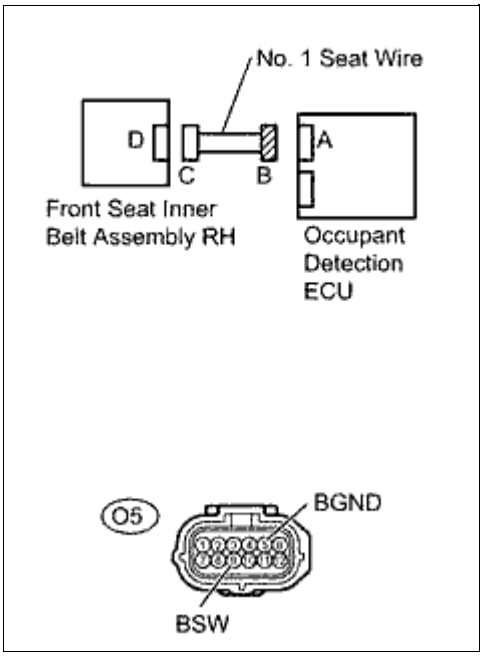
NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK
▼

4.	**CHECK NO. 1 SEAT WIRE (TO B+)**

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(a) Disconnect the connectors from the occupant detection ECU and the front seat inner belt assembly RH.



(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the on position.

(d) Measure the voltage.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O5-9 (BSW) - Body ground	Ignition switch on	Below 1 V
O5-5 (BGND) - Body ground	Ignition switch on	Below 1 V

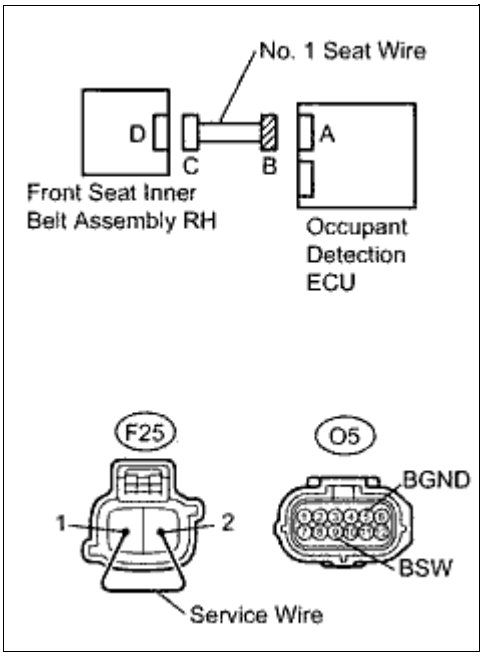
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

5.	**CHECK NO. 1 SEAT WIRE (FOR OPEN)**

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(a) Turn the ignition switch to the lock position.



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

(c) Using a service wire, connect J11-2 and J11-1 of connector C.

NOTICE:

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

(d) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O5-9 (BSW) - O5-5 (BGND)	Always	Below 1 Ω

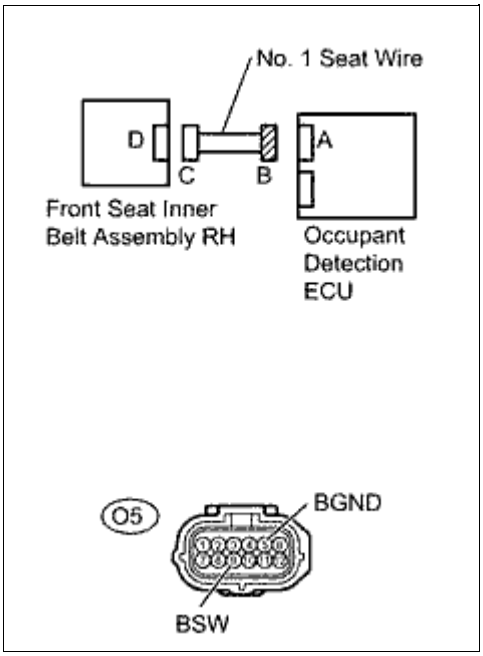
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

6.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

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(a) Disconnect the service wire from connector C.



(b) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O5-9 (BSW) - O5-5 (BGND)	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK
▼

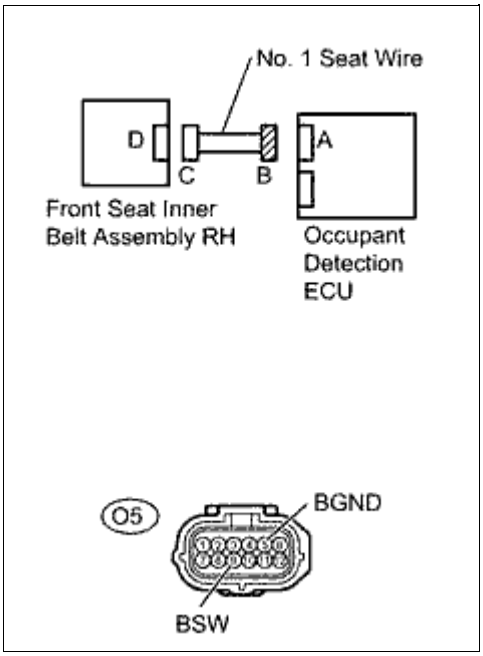
7.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O5-9 (BSW) - Body ground	Always	1 MΩ or higher
O5-5 (BGND) - Body ground	Always	1 MΩ or higher



NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

8.	**CHECK DTC**

(a) Connect the connectors to the occupant detection ECU and the front seat inner belt assembly RH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the on position.

(d) Clear the DTCs stored in the memory INFO .

HINT:

First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.

(e) Turn the ignition switch to the lock position.

(f) Turn the ignition switch to the on position.

(g) Check the DTCs INFO .

OK:

DTC B1771 is not output.

HINT:

Codes other than DTC B1771 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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NG

9.	**REPLACE FRONT SEAT INNER BELT ASSEMBLY RH**

(a) Turn the ignition switch to the lock position.

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

(c) Replace the front seat inner belt assembly RH INFO .

HINT:

Perform the inspection using parts from a normal vehicle if possible.

(d) Connect the negative (-) terminal cable to the battery.

(e) Turn the ignition switch to the on position.

(f) Clear the DTCs stored in the memory INFO .

HINT:

First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.

(g) Turn the ignition switch to the lock position.

(h) Turn the ignition switch to the on position.

(i) Check the DTCs INFO .

OK:

DTC B1771 is not output.

HINT:

Codes other than DTC B1771 may be output at this time, but they are not related to this check.

OK ▶ **END**

NG

10.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the lock position.

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

(c) Replace the occupant detection ECU INFO .

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NEXT

11.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the on position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

12.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard values:
27 to 33 kg (59.52 to 72.75 lb)

NEXT END

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157S02CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1780; Front Occupant Classification Sensor LH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1780**	**Front Occupant Classification Sensor LH Circuit Malfunction**

DESCRIPTION

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

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

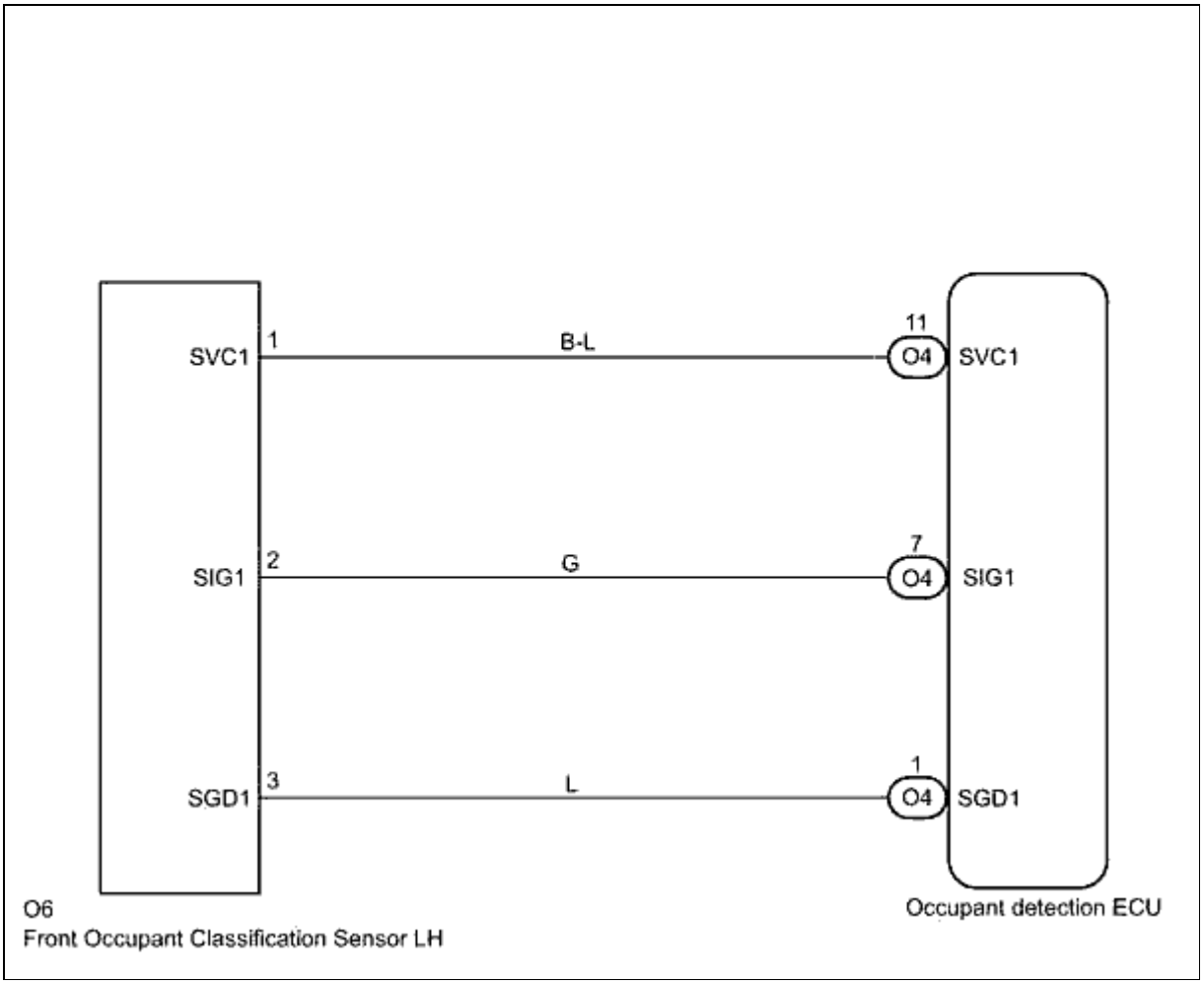
DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1780	• The occupant detection ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the occupant classification sensor front LH circuit for 2 seconds • Occupant classification sensor front LH malfunction • Occupant detection ECU malfunction	• Front seat with adjuster frame assembly RH (Occupant classification sensor front LH) • No. 1 seat wire • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1780 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTC cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

HINT:

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

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

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(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1780 is not output.

HINT:

DTCs other than B1780 may be output at this time, but they are not related to this check.

OK ▶ PERFORM SENSITIVITY CHECK

NG

▼

2.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch to the LOCK position.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the occupant classification sensor front LH.

OK:

The connectors are properly connected.

NG ▶ CONNECT CONNECTORS

OK

▼

3.	**CHECK CONNECTORS**

(a) Check that the connectors (on the occupant detection ECU side and occupant classification sensor front LH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

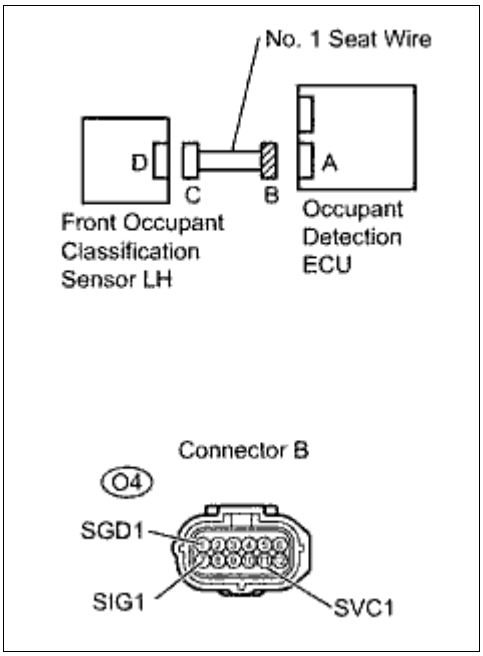
NG ▶ REPAIR OR REPLACE WIRE HARNESS

OK

▼

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4.	**CHECK NO. 1 SEAT WIRE (TO B+)**



(a) Disconnect the connectors from the occupant detection ECU and the occupant classification sensor front LH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Measure the voltage.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-1 (SGD1) - Body ground	Ignition switch ON	Below 1 V
O4-7 (SIG1) - Body ground	Ignition switch ON	Below 1 V
O4-11 (SVC1) - Body ground	Ignition switch ON	Below 1 V

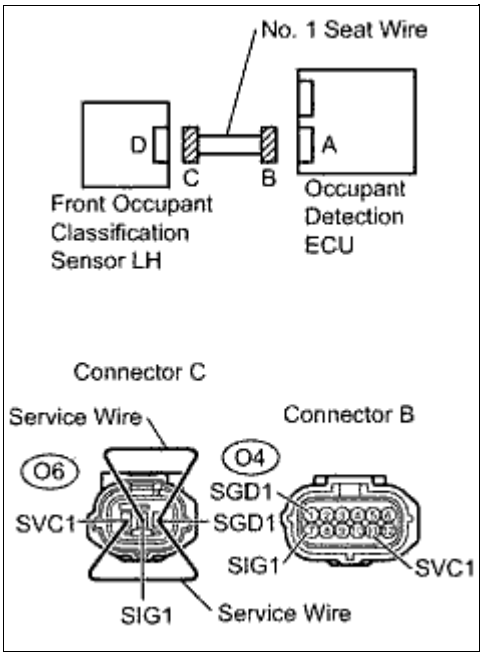
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

5.	**CHECK NO. 1 SEAT WIRE (FOR OPEN)**

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(a) Turn the ignition switch to the LOCK position.



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

(c) Using service wires, connect O6-1 (SVC1) and O6-3 (SGD1), and connect O6-2 (SIG1) and O6-3 (SGD1) of connector C.

NOTICE:

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

(d) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-7 (SIG1) - O4-1 (SGD1)	Always	Below 1 Ω
O4-11 (SVC1) - O4-1 (SGD1)	Always	Below 1 Ω

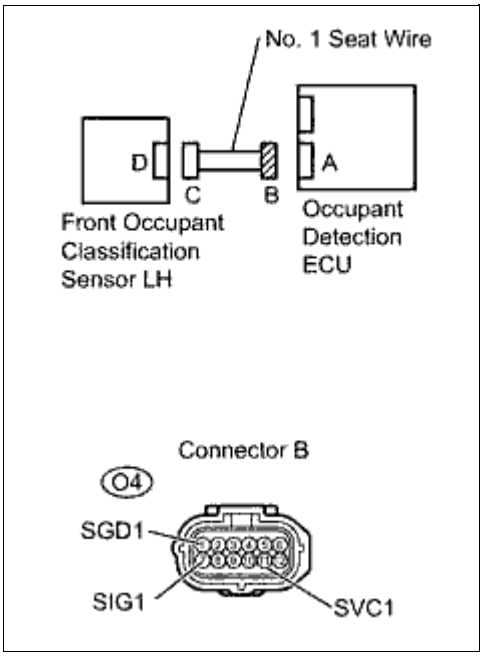
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

6.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

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(a) Disconnect the service wires from connector C.



(b) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-7 (SIG1) - O4-1 (SGD1)	Always	1 MΩ or higher
O4-11 (SVC1) - O4-1 (SGD1)	Always	1 MΩ or higher
O4-7 (SIG1) - O4-11 (SVC1)	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

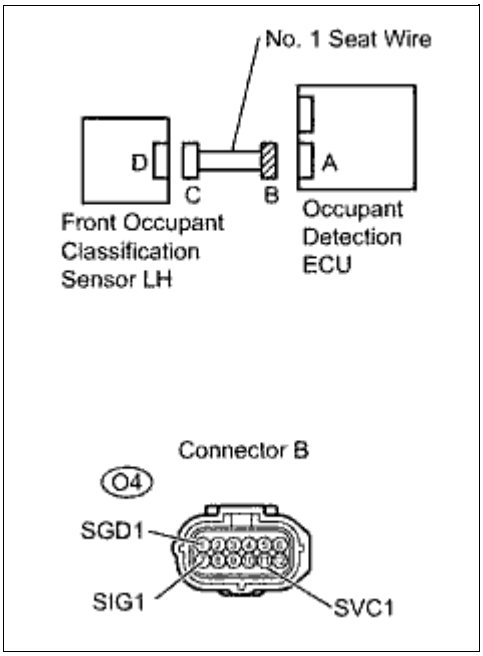
7.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-1 (SGD1) - Body ground	Always	1 MΩ or higher
O4-7 (SIG1) - Body ground	Always	1 MΩ or higher
O4-11 (SVC1) - Body ground	Always	1 MΩ or higher



NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

8.	CHECK DTC

(a) Connect the connectors to the occupant detection ECU and the occupant classification sensor front LH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1780 is not output.

HINT:

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DTCs other than B1780 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

9.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT
▼

10.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 13**

OK
▼

11.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:

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27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 13**

OK
▼

12.	CHECK DTC

(a) Connect the negative (-) terminal cable to the battery.

(b) Turn the ignition switch to the ON position.

(c) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(d) Turn the ignition switch to the LOCK position.

(e) Turn the ignition switch to the ON position.

(f) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1780 is not output.

HINT:

DTCs other than B1780 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

13.	REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

NEXT

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14.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

15.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157T02CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1781; Front Occupant Classification Sensor RH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1781**	**Front Occupant Classification Sensor RH Circuit Malfunction**

DESCRIPTION

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

DTC B1781 is set when a malfunction is detected in the front occupant classification sensor RH circuit.

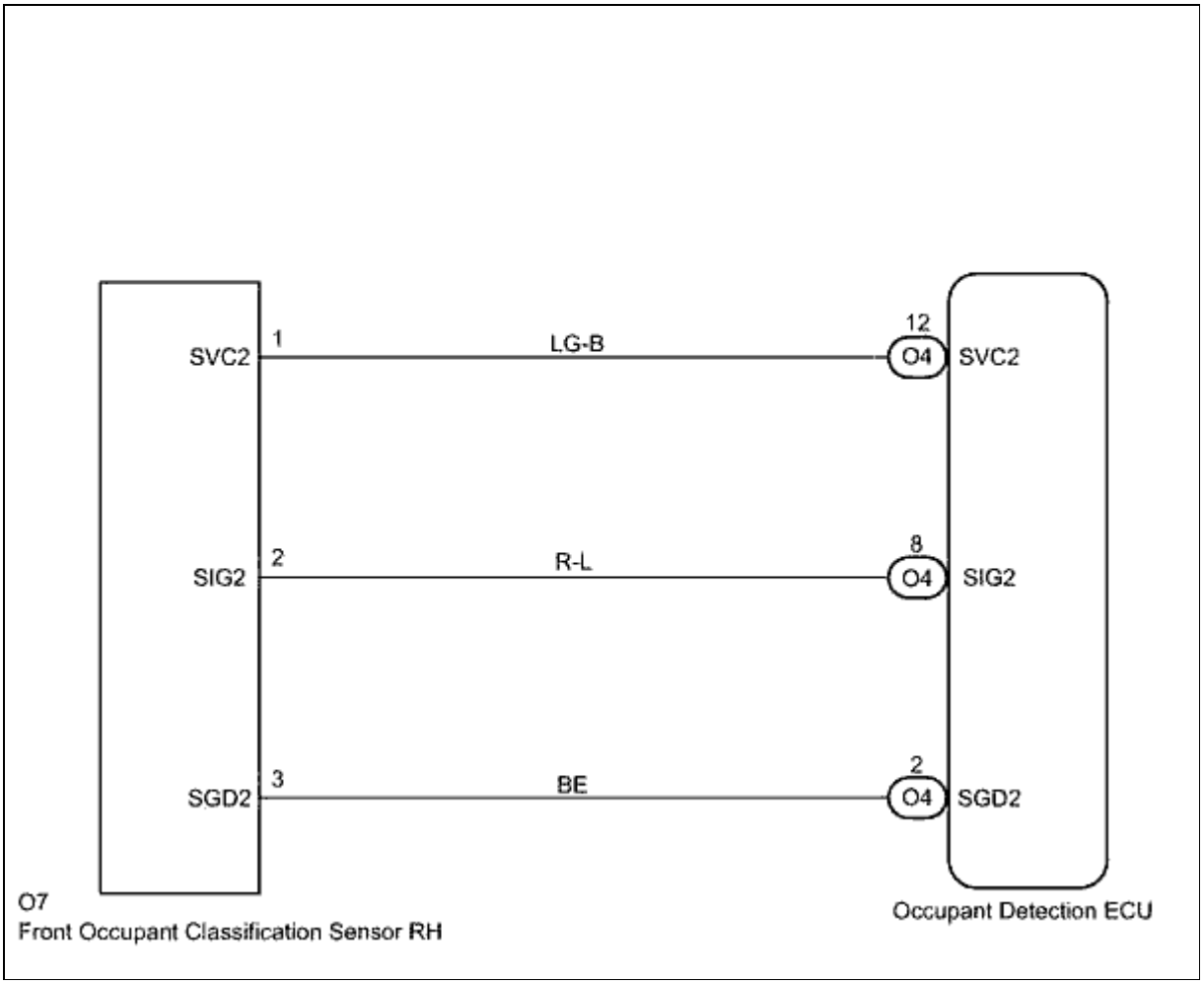
DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1781	• The occupant detection ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the front occupant classification sensor RH circuit for 2 seconds • Occupant classification sensor front RH malfunction • Occupant detection ECU malfunction	• Front seat with adjuster frame assembly RH (Front occupant classification sensor RH) • No. 1 seat wire • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1781 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTC cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

HINT:

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

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

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(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1781 is not output.

HINT:

DTCs other than B1781 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

2.	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the front occupant classification sensor RH.

OK:

The connectors are properly connected.

NG ▶ **OTHERS CONNECTORS**

OK
▼

3.	CHECK CONNECTORS

(a) Check that the connectors (on the occupant detection ECU side and front occupant classification sensor RH side) are not damaged INFO .

OK:

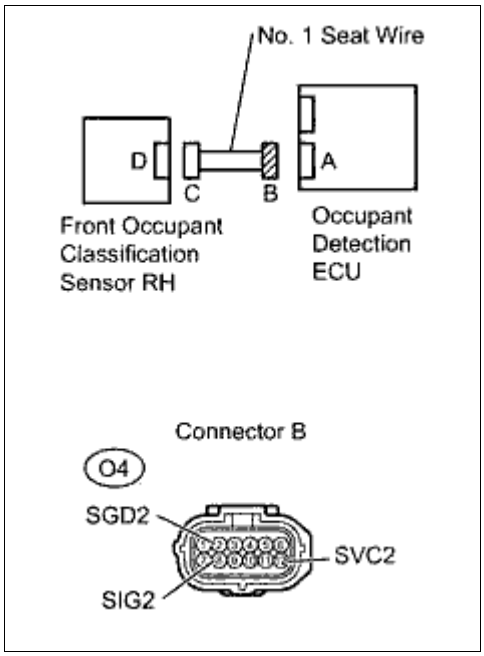
The connectors are not deformed or damaged.

NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK
▼

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4.	**CHECK NO. 1 SEAT WIRE (TO B+)**



(a) Disconnect the connectors from the occupant detection ECU and the front occupant classification sensor RH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Measure the voltage.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-2 (SGD2) - Body ground	Ignition switch ON	Below 1 V
O4-8 (SIG2) - Body ground	Ignition switch ON	Below 1 V
O4-12 (SVC2) - Body ground	Ignition switch ON	Below 1 V

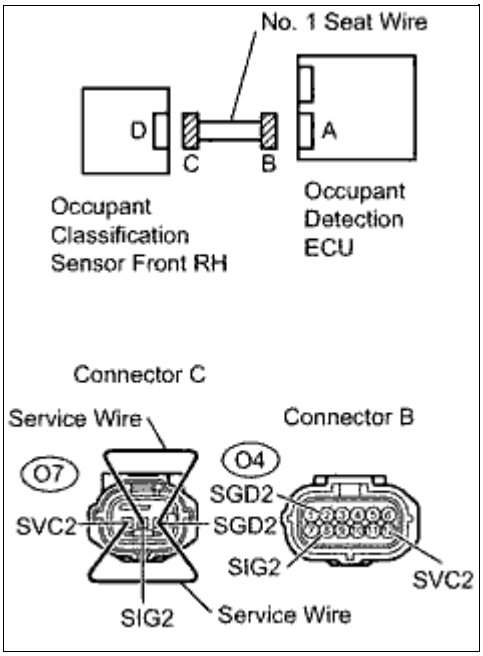
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

5.	**CHECK NO. 1 SEAT WIRE (FOR OPEN)**

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(a) Turn the ignition switch to the LOCK position.



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

(c) Using service wires, connect O7-1 (SVC2) and O7-3 (SGD2), and connect O7-2 (SIG2) and O7-3 (SGD2) of connector C.

NOTICE:

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

(d) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-8 (SIG2) - O4-2 (SGD2)	Always	Below 1 Ω
O4-12 (SVC2) - O4-2 (SGD2)	Always	Below 1 Ω

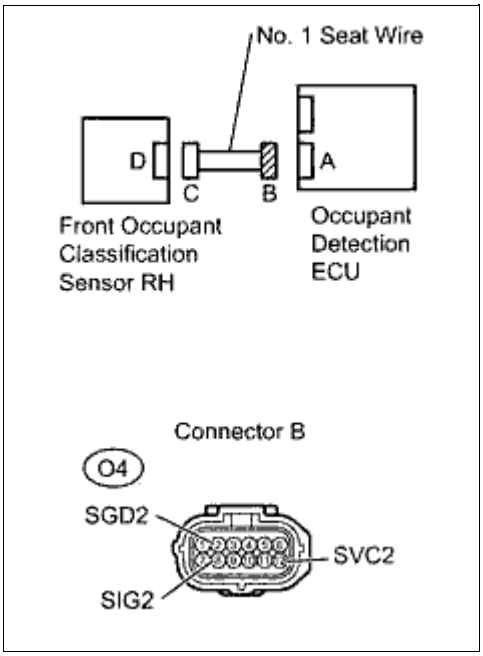
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

6.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

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(a) Disconnect the service wires from connector C.



(b) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-8 (SIG2) - O4-2 (SGD2)	Always	1 MΩ or higher
O4-12 (SVC2) - O4-2 (SGD2)	Always	1 MΩ or higher
O4-8 (SIG2) - O4-12 (SVC2)	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

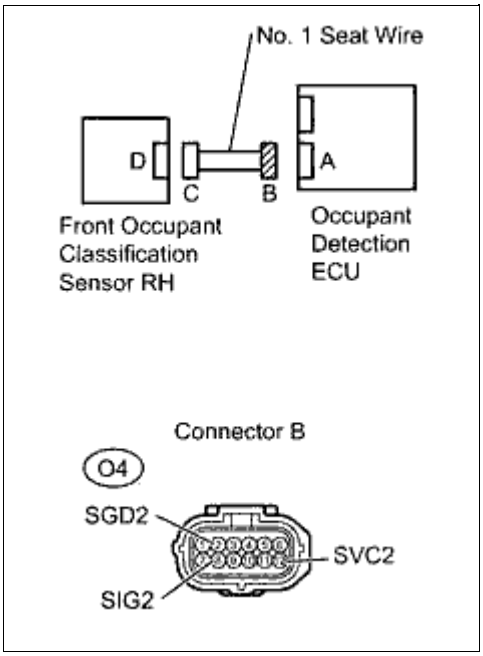
7.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-2 (SGD2) - Body ground	Always	1 MΩ or higher
O4-8 (SIG2) - Body ground	Always	1 MΩ or higher
O4-12 (SVC2) - Body ground	Always	1 MΩ or higher



NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

8.	CHECK DTC

(a) Connect the connectors to the occupant detection ECU and the front occupant classification sensor RH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1781 is not output.

HINT:

DTCs other than B1781 may be output at this time, but they are not related to this check.

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OK ▶ USE SIMULATION METHOD TO CHECK

NG
▼

9.	REPLACE OCCUPANT DETECTION ECU

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT
▼

10.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ GO TO STEP 13

OK
▼

11.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:

27 to 33 kg (59.52 to 72.75 lb)

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NG ▶ GO TO STEP 13

OK
▼

12.	CHECK DTC

(a) Connect the negative (-) terminal cable to the battery.

(b) Turn the ignition switch to the ON position.

(c) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(d) Turn the ignition switch to the LOCK position.

(e) Turn the ignition switch to the ON position.

(f) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1781 is not output.

HINT:

DTCs other than B1781 may be output at this time, but they are not related to this check.

OK ▶ USE SIMULATION METHOD TO CHECK

NG
▼

13.	REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

NEXT
▼

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14.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

15.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157U02NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1782; Rear Occupant Classification Sensor LH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1782**	**Rear Occupant Classification Sensor LH Circuit Malfunction**

DESCRIPTION

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

DTC B1782 is set when a malfunction is detected in the rear occupant classification sensor LH circuit.

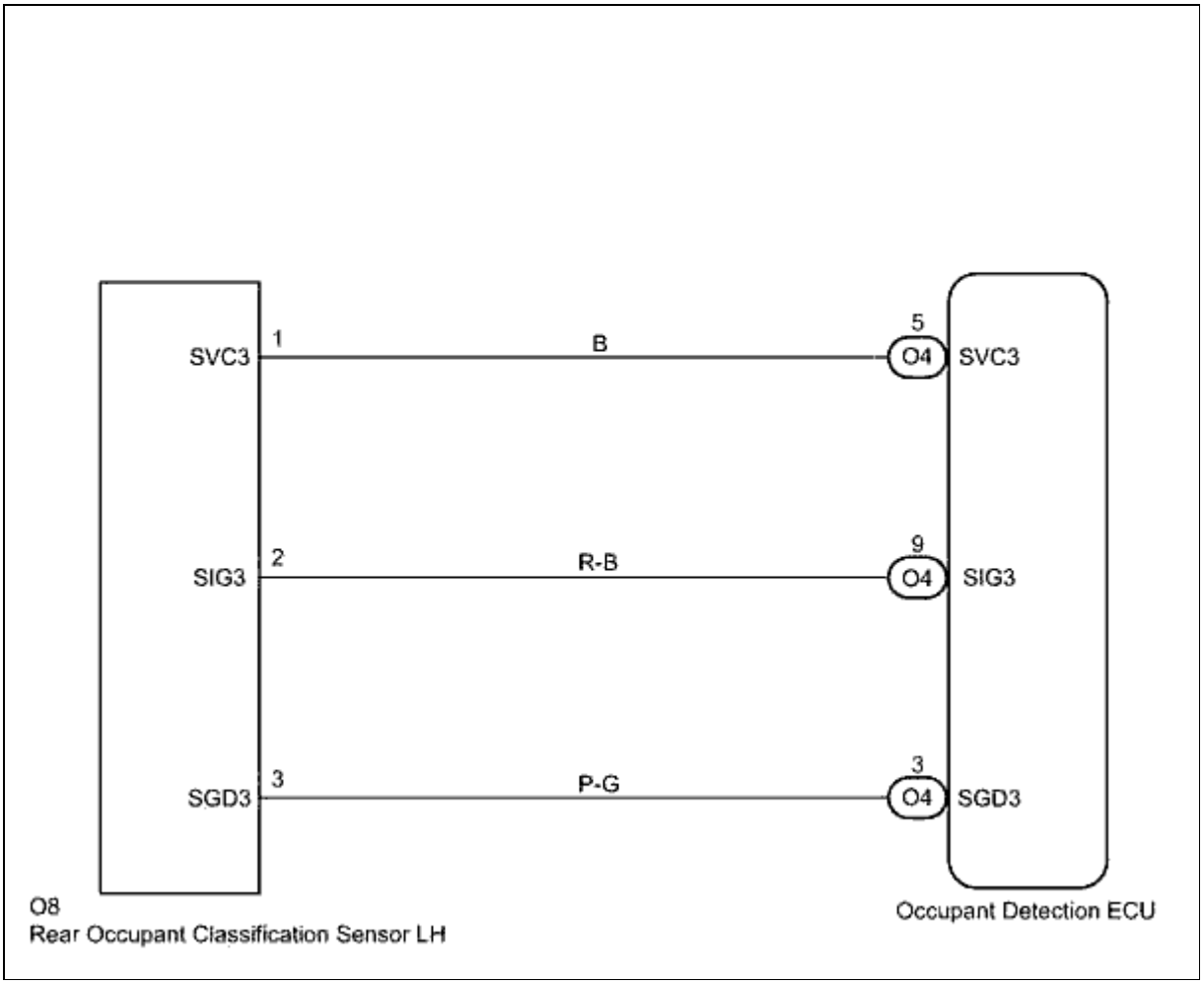
DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1782	• The occupant detection ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the rear occupant classification sensor LH circuit for 2 seconds • Rear occupant classification sensor LH malfunction • Occupant detection ECU malfunction	• Front seat with adjuster frame assembly RH (Rear occupant classification sensor LH) • No. 1 seat wire • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1782 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

HINT:

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

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

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(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1782 is not output.

HINT:

DTCs other than B1782 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

2.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch to the LOCK position.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the rear occupant classification sensor LH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK
▼

3.	**REPAIR CONNECTORS**

(a) Check that the connectors (on the occupant detection ECU side and rear occupant classification sensor LH side) are not damaged INFO .

OK:

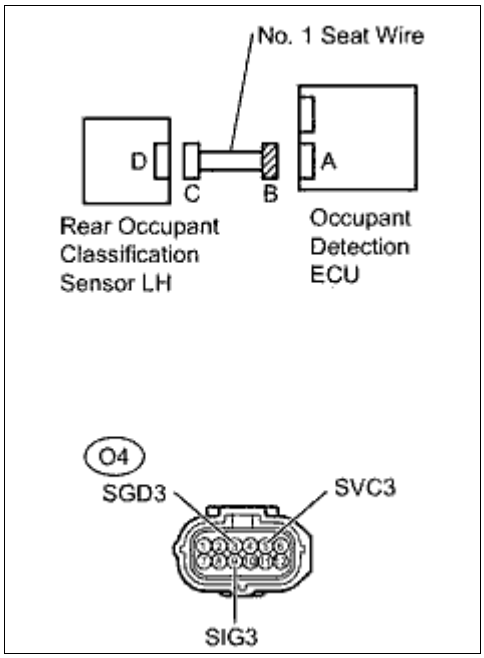
The connectors are not deformed or damaged.

NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK
▼

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4.	**CHECK NO. 1 SEAT WIRE (TO B+)**



(a) Disconnect the connectors from the occupant detection ECU and the rear occupant classification sensor LH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Measure the voltage.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-3 (SGD3) - Body ground	Ignition switch ON	Below 1 V
O4-5 (SVC3) - Body ground	Ignition switch ON	Below 1 V
O4-9 (SIG3) - Body ground	Ignition switch ON	Below 1 V

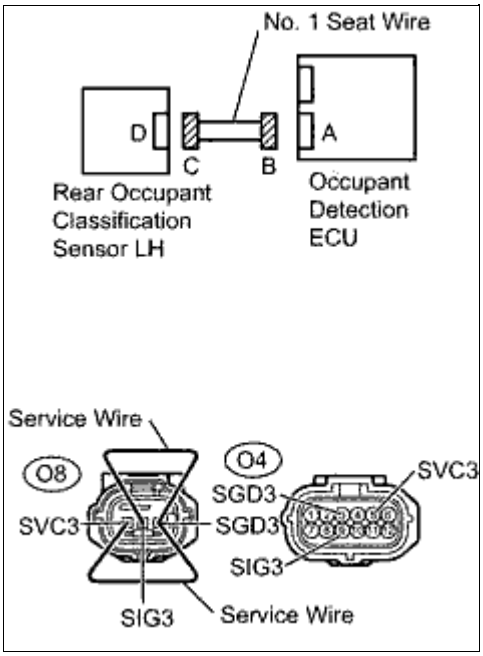
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

5.	**CHECK NO. 1 SEAT WIRE (FOR OPEN)**

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(a) Turn the ignition switch to the LOCK position.



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

(c) Using service wires, connect O8-1 (SVC3) and O8-3 (SGD3), and connect O8-2 (SIG3) and O8-3 (SGD3) of connector C.

HINT:

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

(d) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-5 (SVC3) - O4-3 (SGD3)	Always	Below 1 Ω
O4-9 (SIG3) - O4-3 (SGD3)	Always	Below 1 Ω

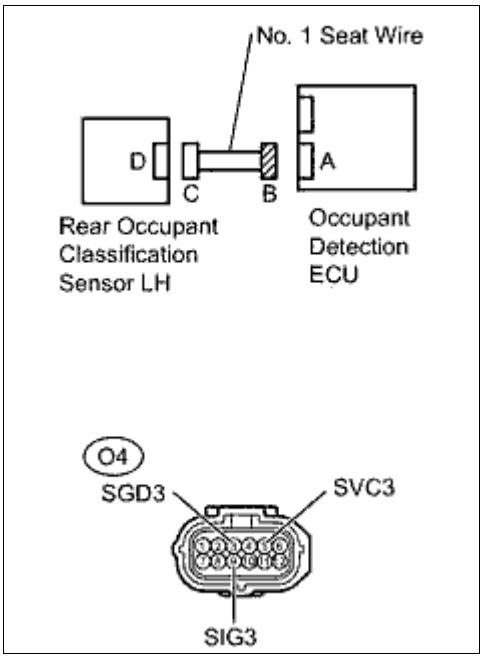
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

6.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

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(a) Disconnect the service wires from connector C.



(b) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-5 (SVC3) - O4-3 (SGD3)	Always	1 MΩ or higher
O4-9 (SIG3) - O4-3 (SGD3)	Always	1 MΩ or higher
O4-5 (SVC3) - O4-9 (SIG3)	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

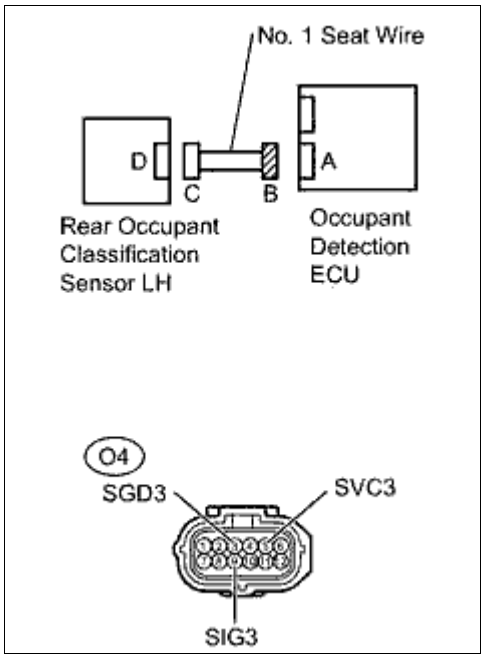
7.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-3 (SGD3) - Body ground	Always	1 MΩ or higher
O4-5 (SVC3) - Body ground	Always	1 MΩ or higher
O4-9 (SIG3) - Body ground	Always	1 MΩ or higher



NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

8.	**CHECK DTC**

(a) Connect the connectors to the occupant detection ECU and the rear occupant classification sensor LH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1782 is not output.

HINT:

DTCs other than B1782 may be output at this time, but they are not related to this check.

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OK ▶ USE SIMULATION METHOD TO CHECK

NG
▼

9.	REPLACE OCCUPANT DETECTION ECU

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT
▼

10.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ GO TO STEP 13

OK
▼

11.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:

27 to 33 kg (59.52 to 72.72 lb)

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NG ▶ GO TO STEP 13

OK
▼

12.	CHECK DTC

(a) Connect the negative (-) terminal cable to the battery.

(b) Turn the ignition switch to the ON position.

(c) Clear the DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(d) Turn the ignition switch to the LOCK position.

(e) Turn the ignition switch to the ON position.

(f) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

HINT:

DTCs other than B1782 may be output at this time, but they are not related to this check.

OK ▶ USE SIMULATION METHOD TO CHECK

NG
▼

13.	REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

NEXT
▼

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14.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

15.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157V02NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1783; Rear Occupant Classification Sensor RH Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1783**	**Rear Occupant Classification Sensor RH Circuit Malfunction**

DESCRIPTION

The rear occupant classification sensor RH circuit consists of the occupant detection ECU and the rear occupant classification sensor RH.

DTC B1783 is set when a malfunction is detected in the rear occupant classification sensor RH circuit.

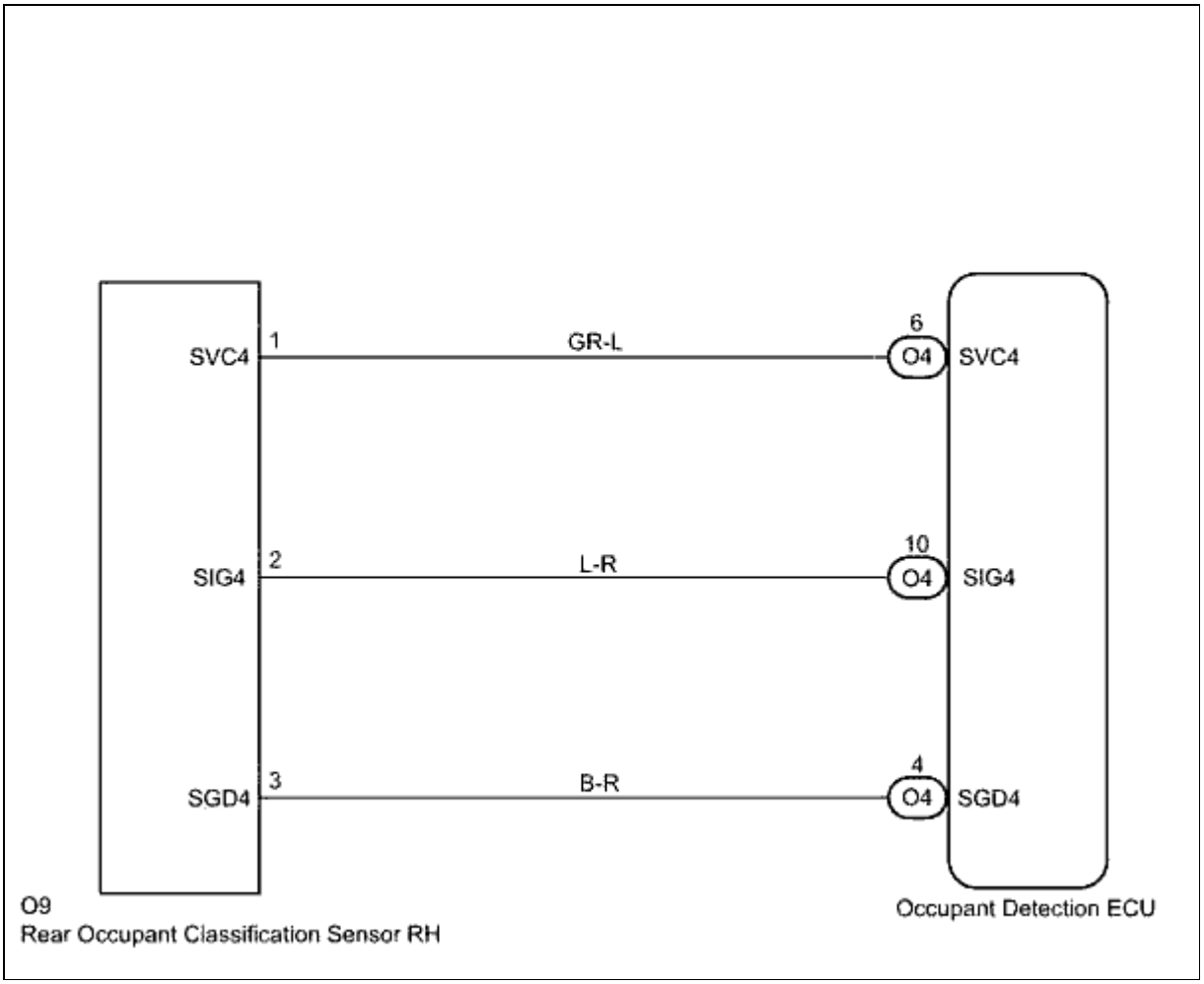
DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1783	• The occupant detection ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the occupant classification sensor rear RH circuit for 2 seconds • Rear occupant classification sensor RH malfunction • Occupant detection ECU malfunction	• Front seat with adjuster frame assembly RH (Rear occupant classification sensor RH) • No. 1 seat wire • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1783 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

HINT:

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

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

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(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1783 is not output.

HINT:

DTCs other than B1783 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

2.	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the rear occupant classification sensor RH.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK
▼

3.	CHECK CONNECTORS

(a) Check that the connectors (on the occupant detection ECU side and rear occupant classification sensor RH side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

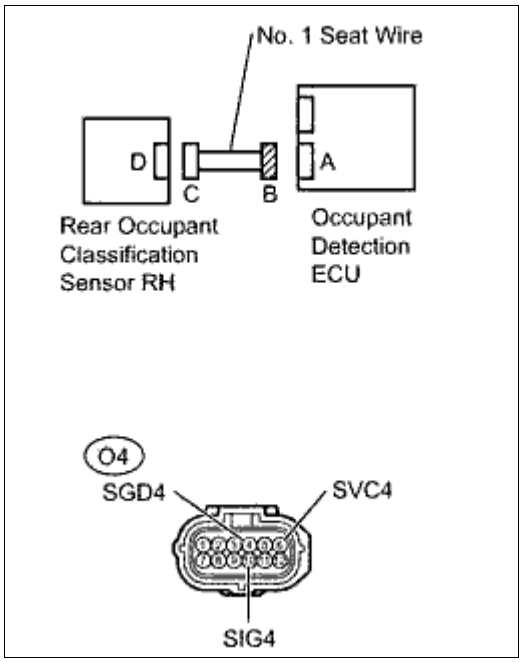
NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK
▼

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4.	**CHECK NO. 1 SEAT WIRE (TO B+)**

(a) Disconnect the connectors from the occupant detection ECU and the rear occupant classification sensor RH.



(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Measure the voltage.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-4 (SGD4) - Body ground	Ignition switch ON	Below 1 V
O4-6 (SVC4) - Body ground	Ignition switch ON	Below 1 V
O4-10 (SIG4) - Body ground	Ignition switch ON	Below 1 V

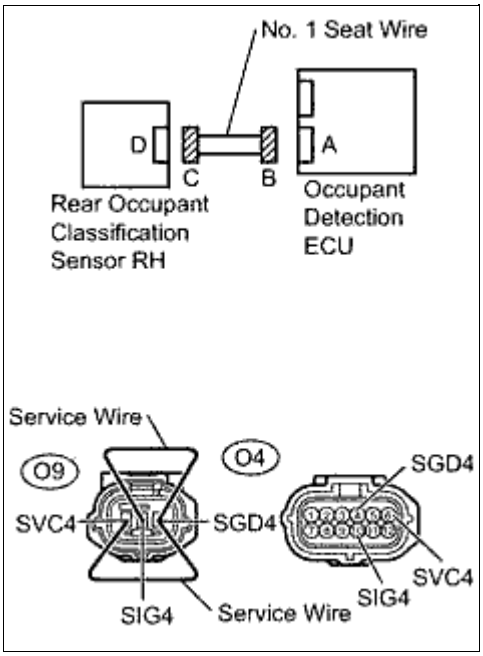
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

5.	**CHECK NO. 1 SEAT WIRE (FOR OPEN)**

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(a) Turn the ignition switch to the LOCK position.



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

(c) Using service wires, connect O9-1 (SVC4) and O9-3 (SGD4), and connect O9-2 (SIG4) and O9-3 (SGD4) of connector C.

NOTICE:

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

(d) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-6 (SVC4) - O4-4 (SGD4)	Always	Below 1 Ω
O4-10 (SIG4) - O4-4 (SGD4)	Always	Below 1 Ω

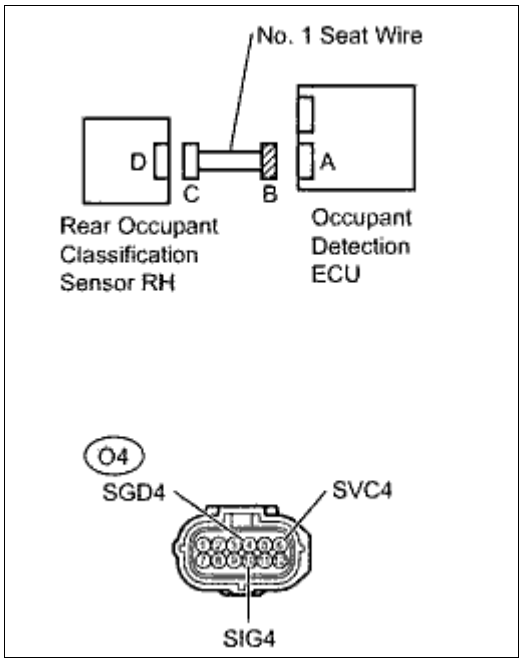
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

6.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

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(a) Disconnect the service wires from connector C.



(b) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-6 (SVC4) - O4-4 (SGD4)	Always	1 MΩ or higher
O4-10 (SIG4) - O4-4 (SGD4)	Always	1 MΩ or higher
O4-6 (SVC4) - O4-10 (SIG4)	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

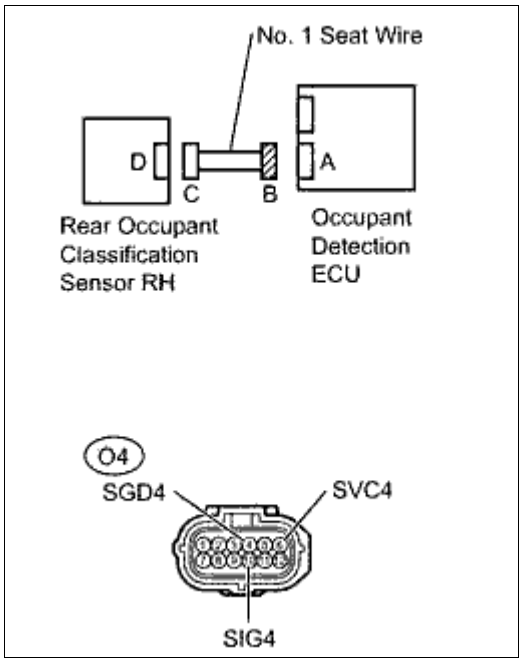
7.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Measure the resistance.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-4 (SGD4) - Body ground	Always	1 MΩ or higher
O4-6 (SVC4) - Body ground	Always	1 MΩ or higher
O4-10 (SIG4) - Body ground	Always	1 MΩ or higher



NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

8.	**CHECK DTC**

(a) Connect the connectors to the occupant detection ECU and the rear occupant classification sensor RH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1783 is not output.

HINT:

DTCs other than B1783 may be output at this time, but they are not related to this check.

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OK ▶ USE SIMULATION METHOD TO CHECK

NG
▼

9.	REPLACE OCCUPANT DETECTION ECU

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT
▼

10.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ GO TO STEP 13

OK
▼

11.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:

27 to 33 kg (59.52 to 72.75 lb)

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NG ▶ GO TO STEP 13

OK
▼

12.	CHECK DTC

(a) Connect the negative (-) terminal cable to the battery.

(b) Turn the ignition switch to the ON position.

(c) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(d) Turn the ignition switch to the LOCK position.

(e) Turn the ignition switch to the ON position.

(f) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1783 is not output.

HINT:

DTCs other than B1783 may be output at this time, but they are not related to this check.

OK ▶ USE SIMULATION METHOD TO CHECK

NG
▼

13.	REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

NEXT
▼

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14.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

15.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157W02CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1785; Front Occupant Classification Sensor LH Collision Detection; 2016 MY Tacoma [08/2015 -]		

DTC	**B1785**	**Front Occupant Classification Sensor LH Collision Detection**

DESCRIPTION

DTC B1785 is set when the occupant detection ECU receives a collision detection signal, which is sent by the occupant classification sensor front LH when an accident occurs.

DTC B1785 is also set when the front seat with adjuster frame assembly RH is subjected to a strong impact, even if an actual accident has not occurred.

However, when the occupant detection ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1785 can be cleared by conducting the zero point calibration and sensitivity check.

Therefore, if DTC B1785 is set, first perform the zero point calibration and sensitivity check.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1785	• Front seat with adjuster frame assembly RH malfunction • Occupant detection ECU malfunction • Front occupant classification sensor LH senses a large load	• Front seat with adjuster frame assembly RH (Front occupant classification sensor LH) • Occupant detection ECU

HINT:

- When DTC B1650/32 is set as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1785 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

INFO

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

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(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1785 is not output.

HINT:
DTCs other than B1785 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to the ON position.

(c) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 5**

OK ▼

3.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 5**

OK ▼

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4.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1785 is not output.

HINT:

DTCs other than B1785 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

5.	**REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT ▼

6.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

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"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 9**

OK ▼

7.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard :
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 9**

OK ▼

8.	**CHECK DTC**

(a) Connect the connectors to the occupant detection ECU and the front occupant classification sensor LH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1785 is not output.

HINT:

DTCs other than B1785 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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NG

9.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

NEXT

10.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

11.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157X02CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1786; Front Occupant Classification Sensor RH Collision Detection; 2016 MY Tacoma [08/2015 -]		

DTC	**B1786**	**Front Occupant Classification Sensor RH Collision Detection**

DESCRIPTION

DTC B1786 is set when the occupant detection ECU receives a collision detection signal, which is sent by the front occupant classification sensor RH when an accident occurs.

DTC B1786 is also set when the front seat with adjuster frame assembly RH is subjected to a strong impact, even if an actual accident has not occurred.

However, when the occupant detection ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1786 can be cleared by conducting the zero point calibration and sensitivity check.

Therefore, if DTC B1786 is set, first perform the zero point calibration and sensitivity check.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1786	• Front seat with adjuster frame assembly RH malfunction • Occupant detection ECU malfunction • Front occupant classification sensor RH senses a large load	• Front seat with adjuster frame assembly RH (Front occupant classification sensor RH) • Occupant detection ECU

HINT:

- When DTC B1650/32 is set as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1786 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

INFO

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

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(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1786 is not output.

HINT:
DTCs other than B1786 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to the ON position.

(c) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 5**

OK ▼

3.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 5**

OK ▼

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4.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1786 is not output.

HINT:

DTCs other than B1786 may be output at this time, but they are not related to this check.

NG ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

5.	**REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT
▼

6.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

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"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 9**

OK ▼

7.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 9**

OK ▼

8.	CHECK DTC

(a) Connect the connectors to the occupant detection ECU and the front occupant classification sensor RH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1786 is not output.

HINT:

DTCs other than B1786 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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NG

9.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

NEXT

10.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

11.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard :
27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157Y02NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1787; Rear Occupant Classification Sensor LH Collision Detection; 2016 MY Tacoma [08/2015 -]		

DTC	**B1787**	**Rear Occupant Classification Sensor LH Collision Detection**

DESCRIPTION

DTC B1787 is set when the occupant detection ECU receives a collision detection signal, which is sent by the occupant classification sensor rear LH when an accident occurs.

DTC B1787 is also set when the front seat with adjuster frame assembly RH is subjected to a strong impact, even if an actual accident has not occurred.

However, when the occupant detection ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1787 can be cleared by conducting the zero point calibration and sensitivity check.

Therefore, if DTC B1787 is output, first perform the zero point calibration and sensitivity check.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1787	• Front seat with adjuster frame assembly RH malfunction • Occupant detection ECU malfunction • Rear occupant classification sensor LH senses a large load	• Front seat with adjuster frame assembly RH (Rear occupant classification sensor LH) • Occupant detection ECU

HINT:

- When DTC B1650/32 is set as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1787 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

INFO

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

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(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1787 is not output.

HINT:
DTCs other than B1787 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to the ON position.

(c) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 5**

OK ▼

3.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard :
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 5**

OK ▼

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4.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1787 is not output.

HINT:

DTCs other than B1787 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

5.	**REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT ▼

6.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

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"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 9**

OK ▼

7.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 9**

OK ▼

8.	**CHECK DTC**

(a) Connect the connectors to the occupant detection ECU and the rear occupant classification sensor LH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1787 is not output.

HINT:

DTCs other than B1787 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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NG

9.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

NEXT

10.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO 1).

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

11.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000157Z02NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1788; Rear Occupant Classification Sensor RH Collision Detection; 2016 MY Tacoma [08/2015 -]		

DTC	**B1788**	**Rear Occupant Classification Sensor RH Collision Detection**

DESCRIPTION

DTC B1788 is set when the occupant detection ECU receives a collision detection signal, which is sent by the occupant classification sensor rear RH when an accident occurs.

DTC B1788 is also set when the front seat with adjuster frame assembly RH is subjected to a strong impact, even if an actual accident has not occurred.

However, when the occupant detection ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1788 can be cleared by conducting the zero point calibration and sensitivity check.

Therefore, if DTC B1788 is output, first perform the zero point calibration and sensitivity check.

DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1788	• Front seat with adjuster frame assembly RH malfunction • Occupant detection ECU malfunction • Rear occupant classification sensor RH senses a large load	• Front seat with adjuster frame assembly RH (Rear occupant classification sensor RH) • Occupant detection ECU

HINT:

- When DTC B1650/32 is set as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1788 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

INFO

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the airbag sensor assembly INFO .

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(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1788 is not output.

HINT:
DTCs other than B1788 may be output at this time, but they are not related to this check.

OK ▶ **OTHERS USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to the ON position.

(c) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 5**

OK ▼

3.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 5**

OK ▼

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4.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear the DTCs stored in the airbag sensor assembly INFO .

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1788 is not output.

HINT:

DTCs other than B1788 may be output at this time, but they are not related to this check.

OK ▶ **OTHERS USE SIMULATION METHOD TO CHECK**

NG ▼

5.	**REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT ▼

6.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

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"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 9**

OK ▼

7.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 9**

OK ▼

8.	CHECK DTC

(a) Connect the connectors to the occupant detection ECU and the rear occupant classification sensor RH.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:
DTC B1788 is not output.

HINT:

DTCs other than B1788 may be output at this time, but they are not related to this check.

OK ▶ **OTHERS USE SIMULATION METHOD TO CHECK**

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NG

9.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

NEXT

10.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

11.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **OTHERS USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001580033X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1790; Center Airbag Sensor Assembly Communication Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1790**	**Center Airbag Sensor Assembly Communication Circuit Malfunction**

DESCRIPTION

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

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

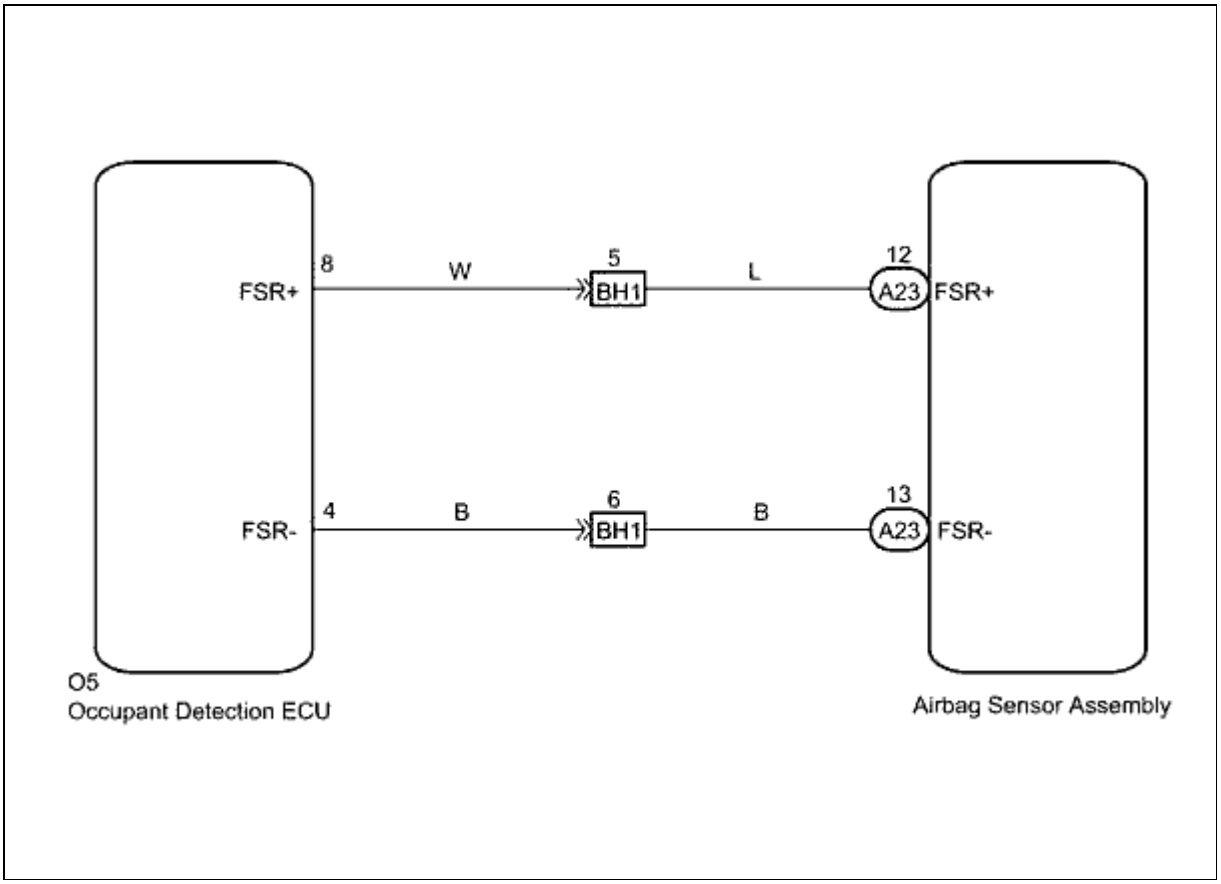
DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1790	• The occupant detection ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the airbag sensor assembly communication circuit for 2 seconds • Airbag sensor assembly malfunction • Occupant detection ECU malfunction	• Floor wire • No. 1 seat wire • Occupant detection ECU • Airbag sensor assembly

HINT:

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

WIRING DIAGRAM

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INSPECTION PROCEDURE

CAUTION:

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

(a) Turn the ignition switch off.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assembly.
(d) Disconnect the connectors from the steering pad assembly.
(e) Disconnect the connector from the front passenger airbag assembly.

HINT:

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

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

HINT:

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

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PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to ON.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch off.

(d) Turn the ignition switch to ON.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1790 is not output.

HINT:

DTCs other than B1790 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**CHECK CONNECT CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the airbag sensor assembly.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

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3.	CHECK CONNECTORS

(a) Check that the connectors (on the airbag sensor assembly side and occupant detection ECU side) are not damaged INFO .

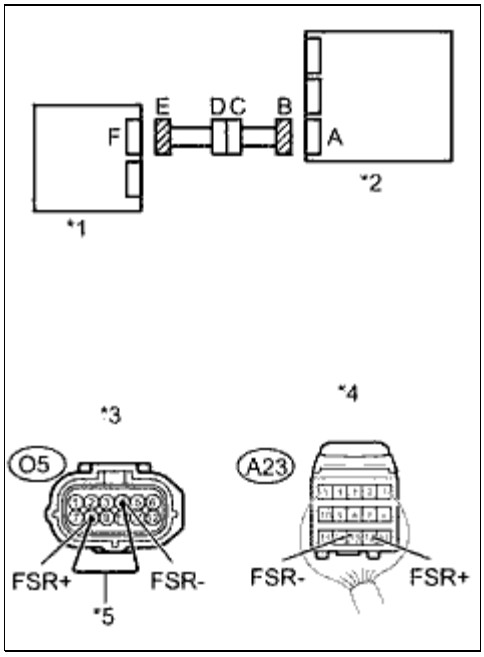
OK:

The connectors are not deformed or damaged.

NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK ▼

4.	CHECK AIRBAG SENSOR ASSEMBLY COMMUNICATION CIRCUIT (FOR OPEN)



(a) Turn the ignition switch off.

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

(c) Using a service wire, connect O5-8 (FSR+) and O5-4 (FSR-) of connector E.

NOTICE:

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

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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - A23-13 (FSR-)	Always	Below 1 Ω

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Text in Illustration

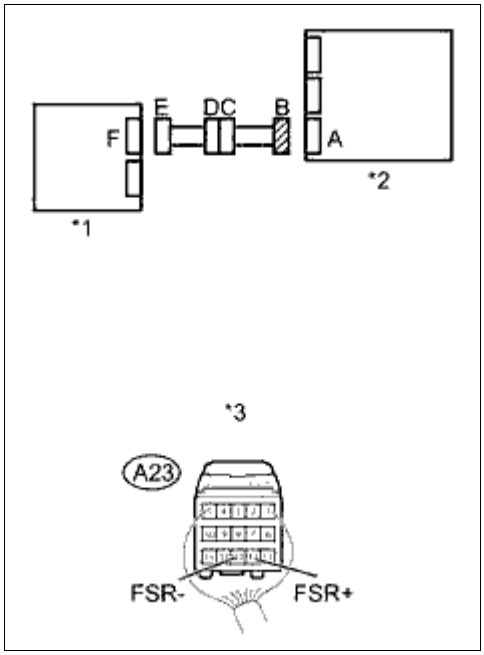
*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector E
*4	Connector B
*5	Service Wire

NG ▶ **GO TO STEP 13**

OK ▼

5.	**CHECK AIRBAG SENSOR ASSEMBLY COMMUNICATION CIRCUIT (FOR SHORT)**

(a) Disconnect the service wire from connector E.



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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - A23-13 (FSR-)	Always	1 MΩ or higher

Text in Illustration

*1	Occupant Detection ECU

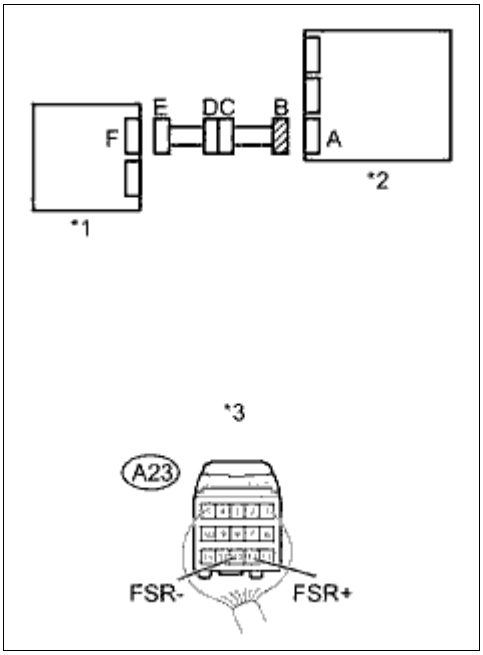
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*2	Airbag Sensor Assembly
*3	Connector B

NG ▶ **GO TO STEP 14**

OK ▼

6.	**CHECK AIRBAG SENSOR ASSEMBLY COMMUNICATION CIRCUIT (TO B+)**



(a) Connect the negative (-) terminal cable to the battery.

(b) Turn the ignition switch to ON.

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

Standard voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - Body ground	Ignition switch ON	Below 1 V
A23-13 (FSR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector B

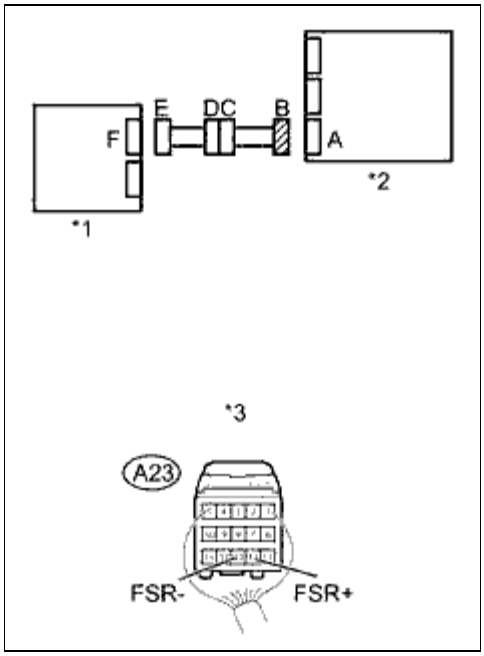
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NG ▶ GO TO STEP 15

OK ▼

7.	CHECK AIRBAG SENSOR ASSEMBLY COMMUNICATION CIRCUIT (TO GROUND)

(a) Turn the ignition switch off.



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

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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A23-12 (FSR+) - Body ground	Always	1 MΩ or higher
A23-13 (FSR-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector B

NG ▶ GO TO STEP 16

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OK

8.	CHECK DTC

(a) Connect the connectors to the occupant detection ECU and the airbag sensor assembly.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to ON.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear any DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1790 is not output.

HINT:

DTCs other than B1790 may be output at this time, but they are not related to this check.

NG ▶ **USE SIMULATION METHOD TO CHECK**

NG

9.	REPLACE OCCUPANT DETECTION ECU

(a) Turn the ignition switch off.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT

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10.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

11.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

12.	**CHECK DTC**

(a) Connect the connector to the occupant detection ECU.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to ON.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch off.

(f) Turn the ignition switch to ON.

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(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1790 is not output.

HINT:

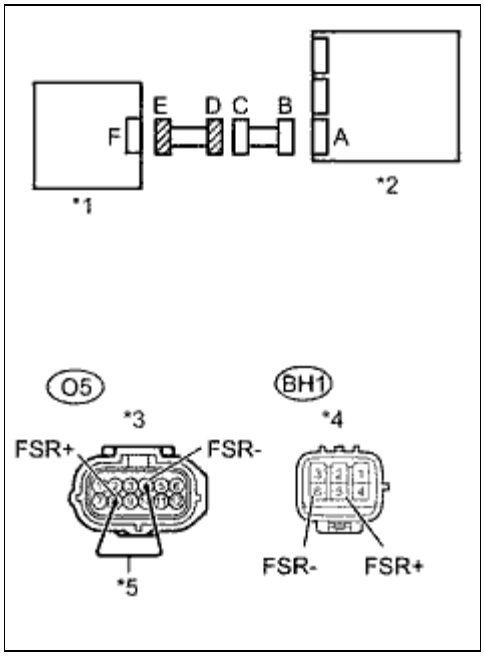
DTCs other than B1790 may be output at this time, but they are not related to this check.

NG ▶ **REPLACE AIRBAG SENSOR ASSEMBLY**

OK ▶ **END**

13.	CHECK NO. 1 SEAT WIRE (FOR OPEN)

(a) Disconnect the No.1 seat wire connector from the occupant detection ECU.



HINT:

The service wire has already been inserted into connector E.

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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - BH1-6 (FSR-)	Always	Below 1 Ω

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector E
*4	Connector D

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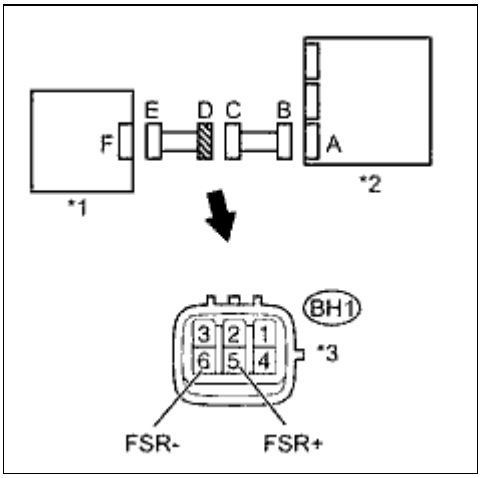
*5	Service Wire

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPAIR OR REPLACE FLOOR WIRE**

14.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

(a) Disconnect the No.1 seat wire connector from the occupant detection ECU.



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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - BH1-6 (FSR-)	Always	1 MΩ or higher

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector D

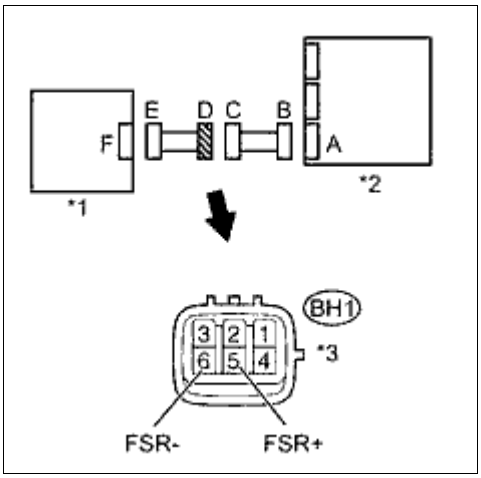
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPAIR OR REPLACE FLOOR WIRE**

15.	**CHECK NO. 1 SEAT WIRE (TO B+)**

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(a) Turn the ignition switch off.



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

(c) Disconnect the No. 1 seat wire connector from the occupant detection ECU.

(d) Disconnect the connector from the occupant detection ECU.

(e) Connect the negative (-) terminal cable to the battery.

(f) Turn the ignition switch to ON.

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

Standard voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - Body ground	Ignition switch ON	Below 1 V
BH1-6 (FSR-) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector D

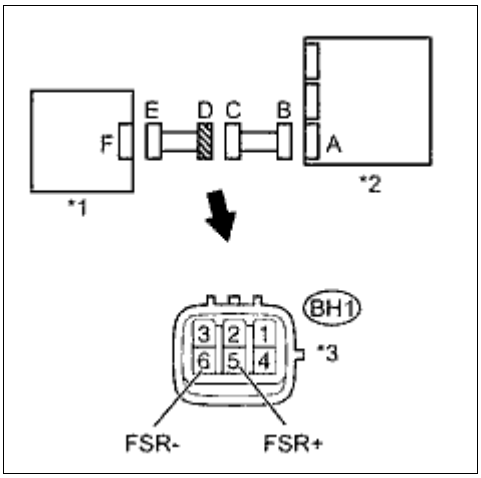
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPAIR OR REPLACE FLOOR WIRE**

16.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Disconnect the No. 1 seat wire connector from the occupant detection ECU.



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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
BH1-5 (FSR+) - Body ground	Always	1 MΩ or higher
BH1-6 (FSR-) - Body ground	Always	1 MΩ or higher

Text in Illustration

*1	Occupant Detection ECU
*2	Airbag Sensor Assembly
*3	Connector D

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▶ **REPAIR OR REPLACE FLOOR WIRE**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000158102NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1793; Occupant Classification Sensor Power Supply Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1793**	**Occupant Classification Sensor Power Supply Circuit Malfunction**

DESCRIPTION

The occupant classification sensor power supply circuit consists of the occupant detection ECU and the occupant classification sensors.

DTC B1793 is set when a malfunction is detected in the occupant classification sensor power supply circuit.

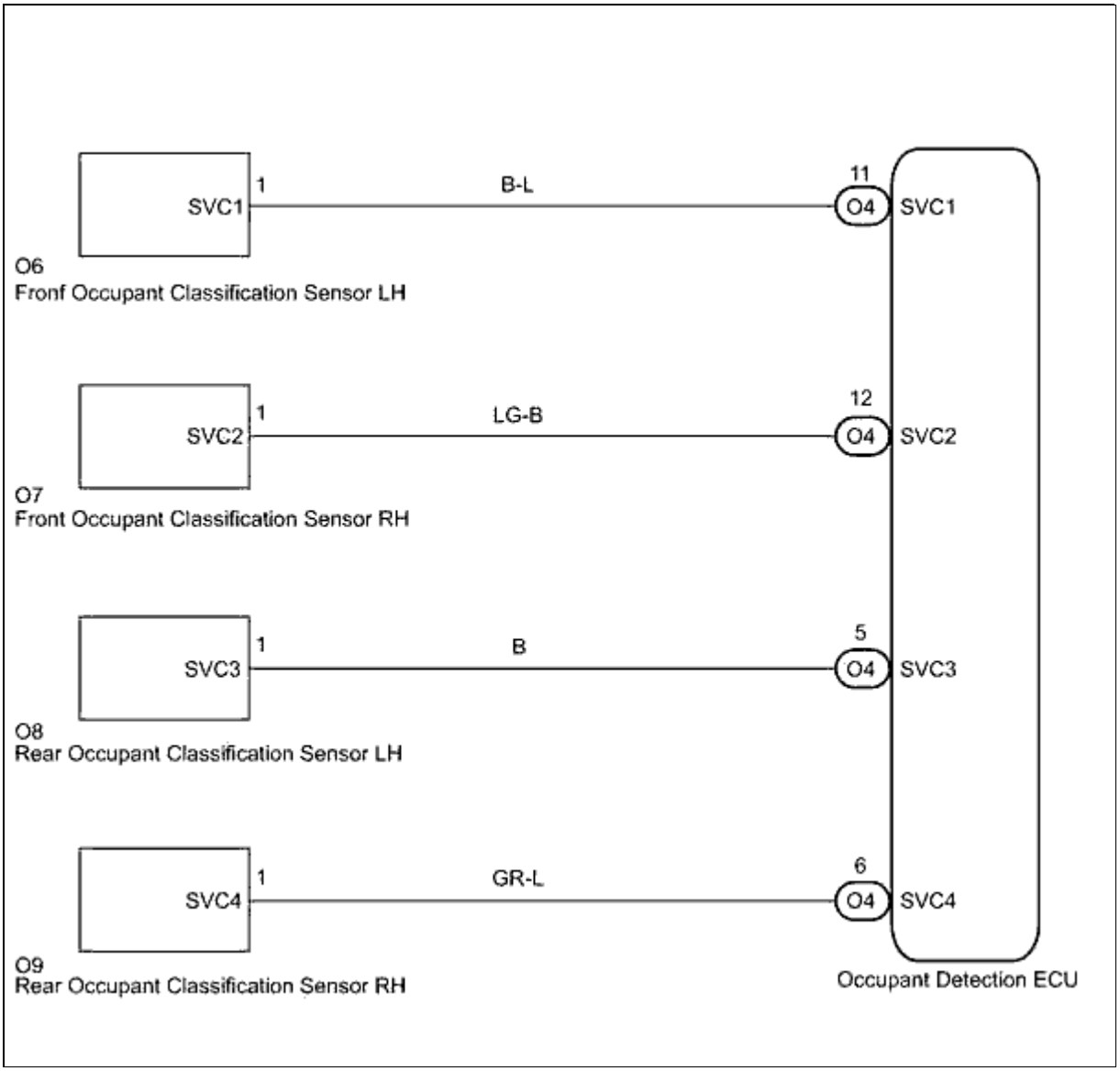
DTC NO.	DTC DETECTING CONDITIONS	TROUBLE AREAS
B1793	• The occupant detection ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the occupant clarification sensor power supply circuit for 2 seconds • Open circuit in occupant classification sensor wire harness • Occupant detection ECU malfunction	• Front seat with adjuster frame assembly RH (Occupant classification sensors) • No. 1 seat wire • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1793 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

HINT:

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

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.

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- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1793 is not output.

HINT:

DTCs other than B1793 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**CHECK CONNECT CONNECTORS**

(a) Turn the ignition switch to the LOCK position.

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

(c) Check that the connectors are properly connected to the occupant detection ECU and the occupant classification sensors.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

3.	**CHECK CONNECTORS**

(a) Check that the connectors (on the occupant detection ECU side and the occupant classification sensors side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

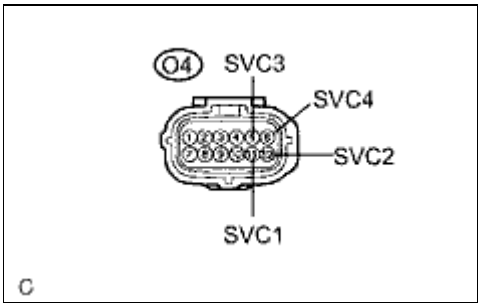
NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

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OK

4.	**CHECK NO. 1 SEAT WIRE (TO B+)**

(a) Disconnect the connectors from the occupant detection ECU and the 4 occupant classification sensors.



(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Measure the voltage.

Standard voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-11 (SVC1) - Body ground	Ignition switch ON	Below 1 Ω
O4-12 (SVC2) - Body ground	Ignition switch ON	Below 1 Ω
O4-5 (SVC3) - Body ground	Ignition switch ON	Below 1 Ω
O4-6 (SVC4) - Body ground	Ignition switch ON	Below 1 Ω

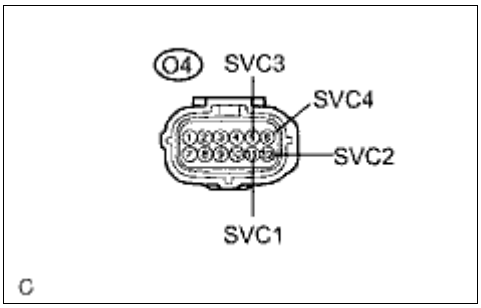
NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK

5.	**CHECK NO. 1 SEAT WIRE (TO GROUND)**

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(a) Turn the ignition switch to the LOCK position.



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

(c) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-11 (SVC1) - Body ground	Always	1 MΩ or higher
O4-12 (SVC2) - Body ground	Always	1 MΩ or higher
O4-5 (SVC3) - Body ground	Always	1 MΩ or higher
O4-6 (SVC4) - Body ground	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK
▼

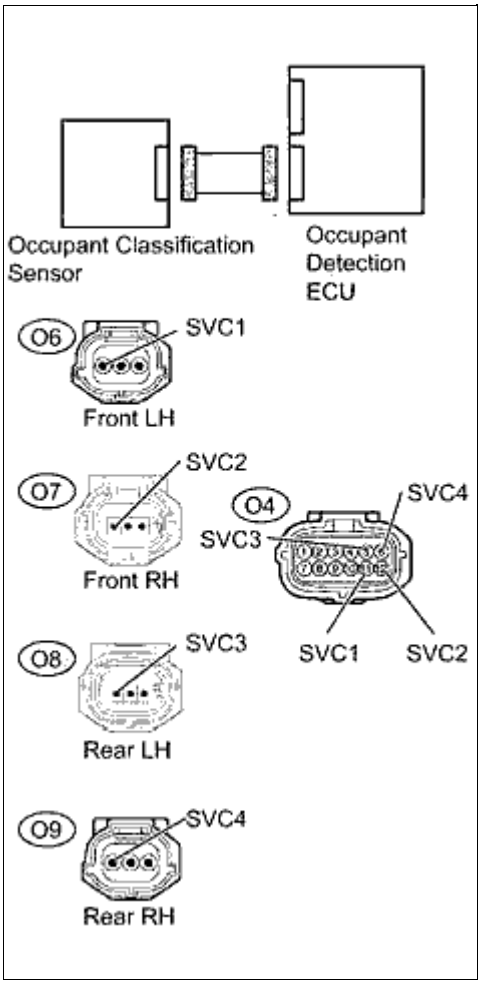
6.	**CHECK NO. 1 SEAT WIRE (FOR OPEN)**

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(a) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-11 (SVC1) - O6-1 (SVC1)	Always	Below 1 Ω
O4-12 (SVC2) - O7-1 (SVC2)	Always	Below 1 Ω
O4-5 (SVC3) - O8-1 (SVC3)	Always	Below 1 Ω
O4-6 (SVC4) - O9-1 (SVC4)	Always	Below 1 Ω



NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

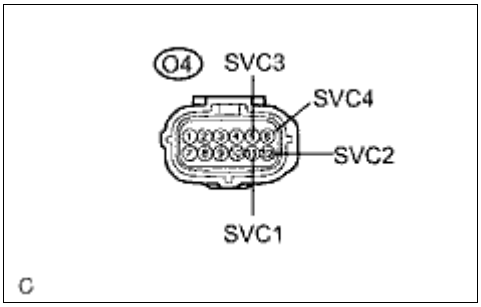
OK ▼

7.	**CHECK NO. 1 SEAT WIRE (FOR SHORT)**

(a) Measure the resistance.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-5 (SVC3) - O4-6 (SVC4)	Always	1 MΩ or higher
O4-6 (SVC4) - O6-11 (SVC1)	Always	1 MΩ or higher
O4-11 (SVC1) - O4-12 (SVC2)	Always	1 MΩ or higher
O4-12 (SVC2) - O4-5 (SVC3)	Always	1 MΩ or higher
O4-12 (SVC2) - O4-6 (SVC4)	Always	1 MΩ or higher



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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-11 (SVC1) - O4-5 (SVC3)	Always	1 MΩ or higher

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

8.	CHECK DTC

(a) Connect the connectors to the occupant detection ECU and the 4 occupant classification sensors.

(b) Connect the negative (-) terminal cable to the battery.

(c) Turn the ignition switch to the ON position.

(d) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(e) Turn the ignition switch to the LOCK position.

(f) Turn the ignition switch to the ON position.

(g) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1793 is not output.

HINT:

DTCs other than B1793 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

9.	REPLACE OCCUPANT DETECTION ECU

(a) Turn the ignition switch to the LOCK position.

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

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(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT

10.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

11.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard:

27 to 33 kg (59.52 to 72.75 lb)

NEXT **USE SIMULATION METHOD TO CHECK**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000158602NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1794; Open in Occupant Classification ECU Battery Positive Line; 2016 MY Tacoma [08/2015 -]		

DTC	**B1794**	**Open in Occupant Classification ECU Battery Positive Line**

DESCRIPTION

DTC B1794 is set when a malfunction is detected in the occupant detection ECU.

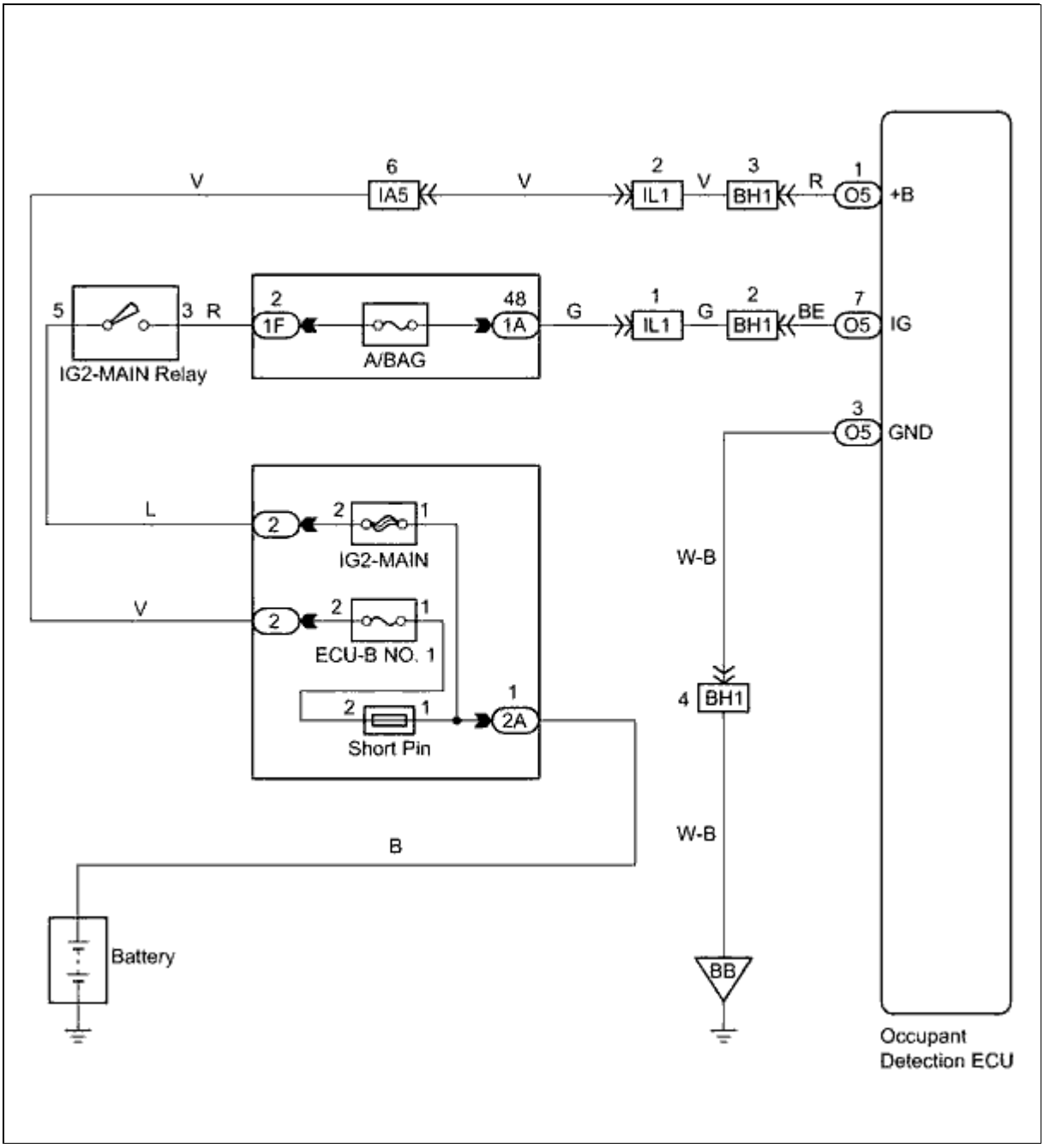
DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1794	• Occupant detection ECU circuit malfunction • Occupant detection ECU malfunction • The occupant detection ECU receives a short circuit to ground signal in the passenger side buckle switch circuit for 2 seconds	• Wire harness • Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1794 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

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INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to ON.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be

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cleared.

(c) Turn the ignition switch off, and wait for at least 10 seconds.

(d) Turn the ignition switch to ON.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1794 is not output.

HINT:

DTCs other than B1794 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

2.	**CHECK CONNECTION OF CONNECTORS**

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly and the occupant detection ECU.

OK:

The connectors are properly connected.

NG ▶ **CONNECT CONNECTORS**

OK ▼

3.	**CHECK CONNECTORS**

(a) Check that the connectors (on the occupant detection ECU side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

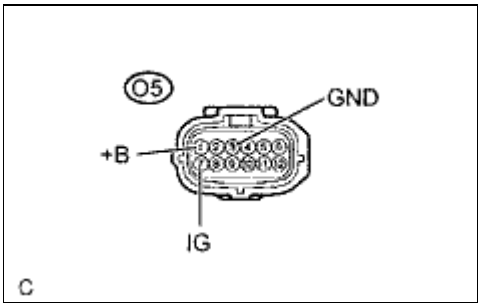
NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK

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4.	**CHECK WIRE HARNESS (SOURCE VOLTAGE)**

(a) Turn the ignition switch off.



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

(c) Disconnect the O5 connector from the occupant detection ECU.

(d) Connect the negative (-) terminal cable to the battery.

(e) Turn the ignition switch to ON.

(f) Measure the voltage and resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O5-3 (GND) - Body ground	Always	Below 1 Ω

Standard voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
O5-1 (+B) - Body ground	Ignition switch ON	11 to 14 V
O5-7 (IG) - Body ground	Ignition switch ON	11 to 14 V

NG ▶ **REPAIR OR REPLACE WIRE HARNESS OR BATTERY**

OK

5.	**CHECK DTC**

(a) Turn the ignition switch off.

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

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(c) Connect the connectors to the occupant detection ECU.

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

(e) Turn the ignition switch to ON.

(f) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(g) Turn the ignition switch off, and wait for at least 10 seconds.

(h) Turn the ignition switch to ON.

(i) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1794 is not output.

HINT:

DTCs other than B1794 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG ▼

6.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch off.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT ▼

7.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

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(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

8.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard :

27 to 33 kg (59.52 to 72.75 lb)

NEXT **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM000001582067X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1795; Occupant Classification ECU Malfunction; 2016 MY Tacoma [08/2015 -]		

DTC	**B1795**	**Occupant Classification ECU Malfunction**

DESCRIPTION

DTC B1795 is set when a malfunction is detected in the occupant detection ECU.

Troubleshoot DTC B1771 first when both DTCs B1771 and B1795 are present.

DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1795	Occupant detection ECU malfunction	Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1795 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly .
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position, and wait for at least 10 seconds.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1795 is not output.

HINT:

DTCs other than B1795 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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NG

2.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT

3.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

4.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard :

Standard value: 27 to 33 kg (59.52 to 72.75 lb)

NEXT **END**

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Last Modified: 11-13-2015	6.6 C	**Doc ID:** RM00000158302NX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: B1796; Sleep Operation Failure of Occupant Classification ECU; 2016 MY Tacoma [08/2015 -]		

DTC	**B1796**	**Sleep Operation Failure of Occupant Classification ECU**

DESCRIPTION

During sleep mode, the occupant detection ECU monitors the condition of each sensor while the ignition switch is off. In this mode, if the occupant detection ECU detects an internal malfunction, DTC B1796 is set.

DTC NO.	DTC DETECTIONS CONDITIONS	TROUBLE AREAS
B1796	Occupant detection ECU malfunction	Occupant detection ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1796 of the occupant classification system.
- Use the Techstream to check for DTCs of the occupant detection ECU, otherwise the DTCs cannot be read.

INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK DTC**

(a) Turn the ignition switch to the ON position.

(b) Clear any DTCs stored in the memory INFO .

HINT:

- First clear DTCs stored in the occupant detection ECU and then in the airbag sensor assembly.
- Use the Techstream to clear the DTCs of the occupant detection ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position, and wait for at least 10 seconds.

(d) Turn the ignition switch to the ON position.

(e) Using the Techstream, check for DTCs of the occupant detection ECU INFO .

OK:

DTC B1796 is not output.

HINT:

DTCs other than B1796 may be output at this time, but they are not related to this check.

OK ▶ **USE SIMULATION METHOD TO CHECK**

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NG

2.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch to the LOCK position.

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

(c) Replace the occupant detection ECU INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

NEXT

3.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to the ON position.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

4.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard :

Standard value: 27 to 33 kg (59.52 to 72.75 lb)

NEXT **END**

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Last Modified: 11-13-2015	6.6 U	**Doc ID:** RM0000010VM0BBX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: DATA LIST / ACTIVE TEST; 2016 MY Tacoma [08/2015 -]		

DATA LIST / ACTIVE TEST

HINT:

By accessing the Data List displayed by the Techstream, you can check values of switches and sensors without removing any parts. Reading the Data List as the first step of troubleshooting is one method to shorten diagnostic time.

1. DATA LIST FOR OCCUPANT DETECTION ECU

(a) Connect the Techstream to the DLC3.

(b) Turn the ignition switch to the on position.

(c) Following the display on the Techstream screen, read the Data List.

Occupant Detection:

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
IG Switch	Ignition switch condition/ ON: Ignition switch ON OFF: Ignition switch OFF	ON/OFF	-
Passenger Buckle SW	Buckle switch (Passenger side)/ Unset: Unfasten the passenger side seat belt Set: Fasten the passenger side seat belt NG: Passenger side seat belt has trouble	Unset/Set	-
Passenger Classification	Passenger classification/ AM50: Adult more than 54 kg (119.05 lb) is seated AF05: Adult (36 to 54 kg (79.37 to 119.05 lb)) is seated CHILD: Child (less than 36 kg (79.37 lb)) is seated CRS: Child restraint system (less than 7 kg (15.43 lb)) and passenger side buckle switch is ON, then 7 to 36 kg (15.43 to 79.37 lb) is set OFF: Vacant	AM50/AF05 /CHILD/CRS/OFF	-
Sensor Range Info	Sensor range information/ OK: The value of a sensor is within the range NG: The value of a sensor is over the range	OK	-
FL Sensor Range Info	Front left sensor range information/ OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 27 kg (59.52 lb)	OK	-
FR Sensor Range Info	Front right sensor range information/ OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 27 kg (59.52 lb)	OK	-

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TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
RL Sensor Range Info	Rear left sensor range information/ OK: Sensor range is -17 to 37 kg (-37.48 to 81.57 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 37 kg (81.57 lb)	OK	-
RR Sensor Range Info	Rear right sensor range information/ OK: Sensor range is -17 to 37 kg (-37.48 to 81.57 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 37 kg (81.57 lb)	OK	-
FL Sensor Voltage	Front left sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
FR Sensor Voltage	Front right sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
RL Sensor Voltage	Rear left sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
RR Sensor Voltage	Rear right sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
FL Sensor Weight Info	Front left sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 27 kg (59.52 lb)	-17 to 27 kg (-37.48 to 59.52 lb)	-
FR Sensor Weight Info	Front right sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 27 kg (59.52 lb)	-17 to 27 kg (-37.48 to 59.52 lb)	-
RL Sensor Weight Info	Rear left sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 37 kg (81.57 lb)	-17 to 37 kg (-37.48 to 81.57 lb)	-
RR Sensor Weight Info	Rear right sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 37 kg (81.57 lb)	-17 to 37 kg (-37.48 to 81.57 lb)	-
Total Weight Information	Total weight information/ Min.: -68 kg (-149.91 lb) Max.: 128 kg (282.19 lb)	-68 to 128 kg (-149.91 to 282.19 lb)	-
Number of Present DTC	Number of DTC recorded/ Min.: 0, Max.: 255	0	-
Number of Past DTC	Number of present trouble codes/ Min.: 0, Max.: 255	0	-

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM0000010VJ0BGX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: DIAGNOSIS SYSTEM; 2016 MY Tacoma [08/2015 -]		

DIAGNOSIS SYSTEM

1. CHECK DLC3

(a) The vehicle's ECU uses the ISO 9141-2 for communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.

SYMBOLS (TERMINAL NO.)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
SIL (7) - SG (5)	Bus + line	During transmission	Pulse generation
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	11 to 14 V



DLC3

HINT:

If the display shows a communication error message when the Techstream is connected to the DLC3, the ignition switch is turned to ON and the Techstream is operated, there is a problem on the vehicle side or tool side.

- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself. Consult the Service Department listed in the tool's instruction manual.

2. SYMPTOM SIMULATION

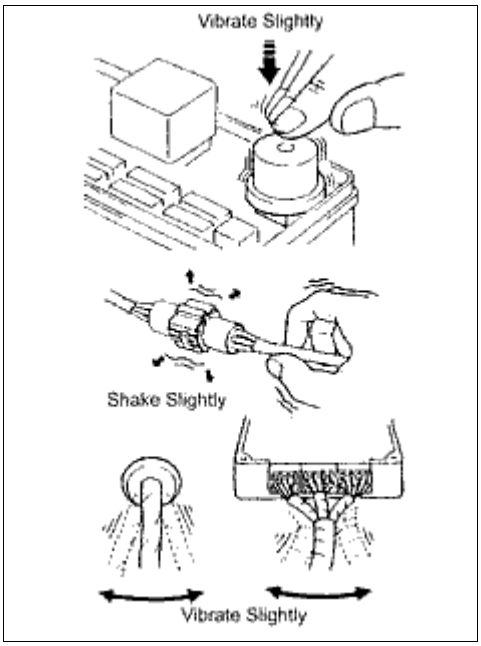
HINT:

The most difficult case in troubleshooting is when no symptoms occur. In such cases, a thorough customer problem analysis must be carried out. Then the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be simulated. Regardless of the technician's experience or skill, if troubleshooting proceeds without confirmation of the problem symptoms, something important is likely to be overlooked and incorrect guesses may be made at some points in the repair operation.

This leads to a standstill in troubleshooting.

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(a) Vibration method: When vibration seems to be the major cause.



HINT:

Perform the simulation method only during the primary check period (for approximately 6 seconds after the ignition switch is turned to on).

(1) Slightly vibrate the part of the sensor considered to be the cause of the problem with your fingers and check whether the malfunction occurs.

HINT:

Shaking the relays too strongly may result in open relays.

(2) Slightly shake the connector vertically and horizontally.

(3) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.

(b) Simulation method for DTC B1795: Turn the ignition switch from the lock to on, hold for 10 seconds, and then back to the lock position again 50 times in a row.

HINT:

DTC B1795 is output if the occupant detection ECU receives the ignition switch lock-on-lock signal 50 times in a row when a malfunction occurs in the power circuit for the occupant classification system.

3. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

(a) Initial check

(1) Turn the ignition switch to on.

(2) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

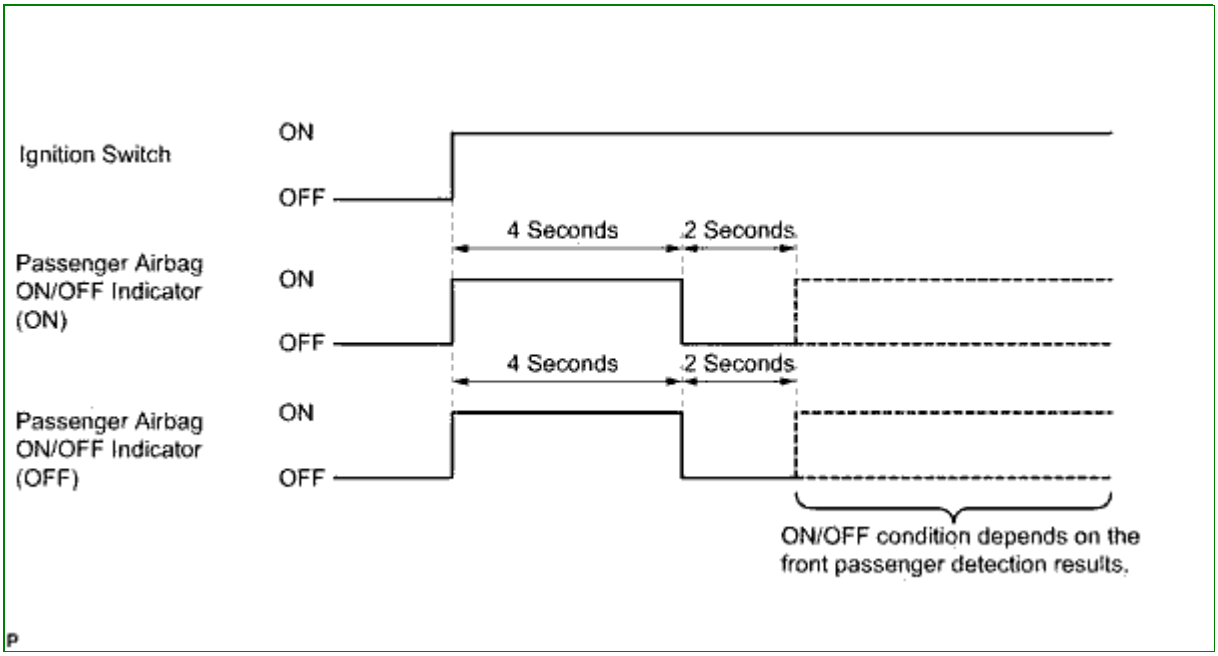
(3) Approximately 6 seconds after the ignition switch is turned to on, the passenger airbag ON/OFF indicator will be ON/OFF depending on the conditions listed below.

FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Adult seated	ON	OFF	OFF
Child seated / Child restraint system set	OFF	ON	OFF
Vacant	OFF	OFF	OFF
Passenger occupant classification system failure	OFF	ON	ON

HINT:

- The passenger airbag ON/OFF indicator operates based on the timing chart below in order to check the indicator light circuit.

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- When the occupant classification system has trouble, both the SRS warning light and the passenger airbag ON/OFF indicator (OFF) come on. In this case, check the DTCs in the airbag system first.

4. PASSENGER AIRBAG ON/OFF INDICATOR CHECK

(a) Turn the ignition switch to on.



(b) Check that the passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

HINT:

Refer to the table in the previous step regarding the passenger airbag ON/OFF indicator when approximately 6 seconds have elapsed after the ignition switch is turned to on.

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Last Modified: 11-13-2015	6.6 S	**Doc ID:** RM000001NEQ02GX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: DIAGNOSTIC TROUBLE CODE CHART; 2016 MY Tacoma [08/2015 -]		

DIAGNOSTIC TROUBLE CODE CHART

If a trouble code is displayed during the DTC check, check the circuit listed for the code in the table below (proceed to the page listed for that circuit).

1. Occupant Detection ECU

HINT:

When DTC B1650/32 is detected as a result of troubleshooting the Supplemental Restraint System, perform troubleshooting for the occupant classification system as shown in the chart below.

DTC CODE	DETECTION ITEM	TROUBLE AREA	PASSENGER AIRBAG ON/OFF INDICATOR (OFF INDICATOR)	SEE PAGE
B1771	Passenger Side Buckle Switch Circuit Malfunction	1. Front seat inner belt assembly (Buckle switch RH) 2. No. 1 seat wire 3. Floor wire 4. Occupant detection ECU	ON	INFO
B1780	Front Occupant Classification Sensor LH Circuit Malfunction	1. Front seat with adjuster frame assembly RH (Occupant classification sensor front LH) 2. No. 1 seat wire 3. Occupant detection ECU	ON	INFO
B1781	Front Occupant Classification Sensor RH Circuit Malfunction	1. Front seat with adjuster frame assembly RH (Occupant classification sensor front RH) 2. No. 1 seat wire 3. Occupant detection ECU	ON	INFO
B1782	Rear Occupant Classification Sensor LH Circuit Malfunction	1. Front seat with adjuster frame assembly RH (Occupant classification sensor rear LH) 2. No. 1 seat wire 3. Occupant detection ECU	ON	INFO
B1783	Rear Occupant Classification Sensor RH Circuit Malfunction	1. Front seat with adjuster frame assembly RH (Occupant classification sensor rear RH) 2. No. 1 seat wire 3. Occupant detection ECU	ON	INFO
B1785	Front Occupant Classification Sensor LH Collision Detection	1. Front seat with adjuster frame assembly RH (Occupant classification sensor front LH) 2. Occupant detection ECU	ON	INFO

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DTC CODE	DETECTION ITEM	TROUBLE AREA	PASSENGER AIRBAG ON/OFF INDICATOR (OFF INDICATOR)	SEE PAGE
B1786	Front Occupant Classification Sensor RH Collision Detection	1. Front seat with adjuster frame assembly RH (Occupant classification sensor front RH) 2. Occupant detection ECU	ON	INFO
B1787	Rear Occupant Classification Sensor LH Collision Detection	1. Front seat with adjuster frame assembly RH (Occupant classification sensor rear LH) 2. Occupant detection ECU	ON	INFO
B1788	Rear Occupant Classification Sensor RH Collision Detection	1. Front seat with adjuster frame assembly RH (Occupant classification sensor rear RH) 2. Occupant detection ECU	ON	INFO
B1790	Center Airbag Sensor Assembly Communication Circuit Malfunction	1. Floor wire 2. No. 1 seat wire 3. Occupant detection ECU 4. Airbag sensor assembly	ON	INFO
B1793	Occupant Classification Sensor Power Supply Circuit Malfunction	1. Front seat with adjuster frame assembly RH (Occupant classification sensors) 2. No. 1 seat wire 3. Occupant detection ECU	ON	INFO
B1794	Open in Occupant Classification ECU Battery Positive Line	1. Wire harness 2. Occupant detection ECU	ON	INFO
B1795	Occupant Classification ECU Malfunction	1. Occupant detection ECU	ON	INFO
B1796	Sleep Operation Failure of Occupant Classification ECU	1. Occupant detection ECU	ON	INFO

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM0000010VK0BCX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: DTC CHECK / CLEAR; 2016 MY Tacoma [08/2015 -]		

DTC CHECK / CLEAR

1. DTC CHECK

HINT:

- When DTC B1650/23 is detected as a result of troubleshooting for the airbag system, troubleshoot the occupant classification system.
- Use the Techstream to read and clear DTCs, otherwise the DTCs cannot be read and cleared.

(a) Check for DTCs.

(1) Connect the Techstream to the DLC3.

(2) Turn the ignition switch to the on position.

(3) Check for DTCs by following the prompts on the Techstream screen.

HINT:

Refer to the Techstream operator's manual for further details.

(b) Clear the DTCs.

(1) Connect the Techstream to the DLC3.

(2) Turn the ignition switch to the on position.

(3) Clear the DTCs by following the prompts on the Techstream screen.

HINT:

Refer to the Techstream operator's manual for further details.

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM0000010V10BUX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2016 MY Tacoma [08/2015 -]		

HOW TO PROCEED WITH TROUBLESHOOTING

1.	**VEHICLE BROUGHT TO WORKSHOP**

NEXT

2.	**CUSTOMER PROBLEM ANALYSIS** INFO

NEXT

3.	**PASSENGER AIRBAG ON/OFF INDICATOR CHECK** INFO

NEXT

4.	**DTCs CHECK (Present and Past DTCs)** INFO

(a) Check for DTCs.

RESULT	PROCEED TO
DTC is output.	A
DTC is not output.	B

B **GO TO PROBLEM SYMPTOMS TABLE**

A

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5.	**DTCs CHART** INFO

NEXT

6.	**CIRCUIT INSPECTION**

NEXT

7.	**REPAIR OR REPLACEMENT**

NEXT

8.	**DTC CLEARANCE (Present and Past DTCs)** INFO

(a) Clear the DTCs.

NEXT

9.	**DTC CHECK (Present and Past DTCs)** INFO

(a) Check for DTCs.

RESULT	PROCEED TO
DTC is not output.	A
DTC is output.	B

B **Go to step 5**

A

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10.	**SYMPTOM SIMULATION** INFO

(a) Check the passenger airbag ON/OFF indicator condition.

RESULT	PROCEED TO
Passenger airbag ON/OFF indicator is operating normally.	A
Passenger airbag ON/OFF indicator (OFF) and SRS warning light come on.	B

B **Go to step 5**

A

11.	**CONFIRMATION TEST**

NEXT **END**

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM0000010VN0B8X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: INITIALIZATION; 2016 MY Tacoma [08/2015 -]		

INITIALIZATION

1. ZERO POINT CALIBRATION

NOTICE:

Make sure that the front passenger seat is not occupied before performing the operation.

HINT:

Perform the zero point calibration and sensitivity check if any of the following conditions apply.

- The occupant detection ECU is replaced.
- Accessories (seatback tray and seat cover, etc.) are installed.
- The front passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator (OFF) comes on when the front passenger seat is not occupied.
- The vehicle is brought to the workshop for repair due to an accident or a collision.

(a) Zero point calibration and sensitivity check procedures

HINT:

Make sure that the zero point calibration has finished normally, and then perform the sensitivity check.

(1) Adjust the seat position in accordance with the table below.

ADJUSTMENT ITEM	POSITION
Slide Direction	Rearmost position
Reclining Angle	Upright position
Headrest Height	Lowest position
Lifter Height	Lowest position

(2) Connect the Techstream to the DLC3.

(3) Turn the ignition switch to the ON position.

(4) Perform the zero point calibration by following the prompts on the Techstream screen.

HINT:

Refer to the Techstream operator's manual for further details.

OK:

"Zero Point Calibration is complete." is displayed.

(5) Perform the sensitivity check by following the prompts on the Techstream screen.

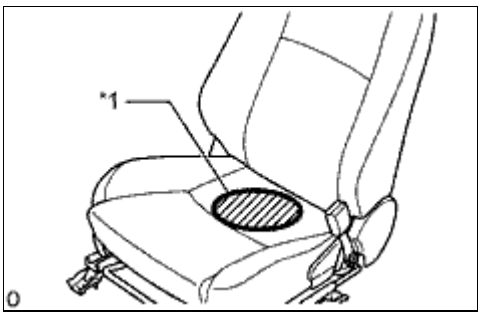
(6) Confirm that the beginning sensor reading is within the standard range.

Standard range:

-3.2 to 3.2 kg (-7 to 7 lb)

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(7) Place a 30 kg (66.1 lb) weight onto the front passenger seat.



NOTICE:

- Do not allow the weight to come into contact with the seatback when placing it on the seat cushion.
- Place the weight in the area shown in the illustration.

Text in Illustration

*1	Weight Position

(8) Confirm that the sensitivity is within the standard range.

Standard range:

27 to 33 kg (59.52 to 72.75 lb)

HINT:

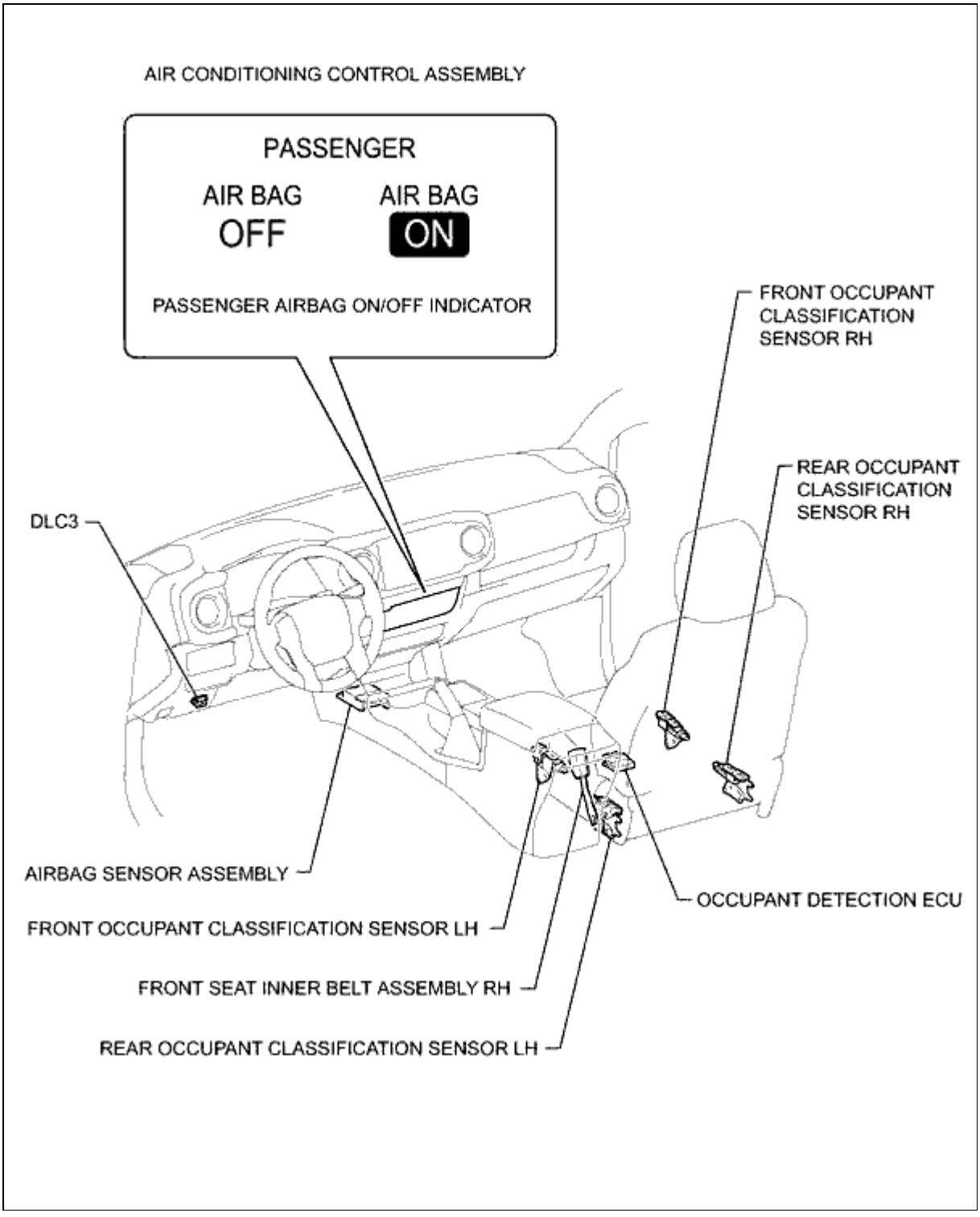
- When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used).
- If the sensitivity deviates from the standard range, retighten the bolts of the front passenger seat taking care not to deform the seat rail. After performing this procedure, if the sensitivity is not within the standard range, replace the front seat with adjuster frame assembly RH.
- If the zero point calibration has not finished normally, replace the front seat with adjuster frame assembly RH.

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Last Modified: 11-13-2015	6.6 R	**Doc ID:** RM000001NER01JX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: PARTS LOCATION; 2016 MY Tacoma [08/2015 -]		

PARTS LOCATION

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 L	**Doc ID:** RM0000010V00BLX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: PRECAUTION; 2016 MY Tacoma [08/2015 -]		

PRECAUTION

1. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

(a) Perform the zero point calibration and sensitivity check if any of the following conditions apply.

- The occupant detection ECU is replaced.
- Accessories (seatback tray and seat cover, etc.) are installed.
- The front passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator (OFF) comes on when the front passenger seat is not occupied.
- The vehicle is brought to the workshop for repair due to an accident or a collision.

NOTICE:

When an accident vehicle is brought into the workshop for repair, check the flatness of the floor where the front passenger seat is mounted. If the flatness is not within +- 3.0 mm (0.118 in.), adjust it to the specified range.

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Last Modified: 11-13-2015	6.6 T	**Doc ID:** RM000001NES01TX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: PROBLEM SYMPTOMS TABLE; 2016 MY Tacoma [08/2015 -]		

PROBLEM SYMPTOMS TABLE

HINT:

Proceed to the troubleshooting for each circuit in the table below.

SYMPTOM	SUSPECTED AREA	SEE PAGE
Passenger seat occupant conditions and displayed passenger airbag ON/OFF indicator do not correspond	Trouble in Passenger Airbag ON/OFF Indicator	INFO

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Last Modified: 11-13-2015	6.6 D	**Doc ID:** RM000001NET01OX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: SYSTEM DESCRIPTION; 2016 MY Tacoma [08/2015 -]		

SYSTEM DESCRIPTION

1. FRONT PASSENGER OCCUPANT CLASSIFICATION SYSTEM

(a) General Description

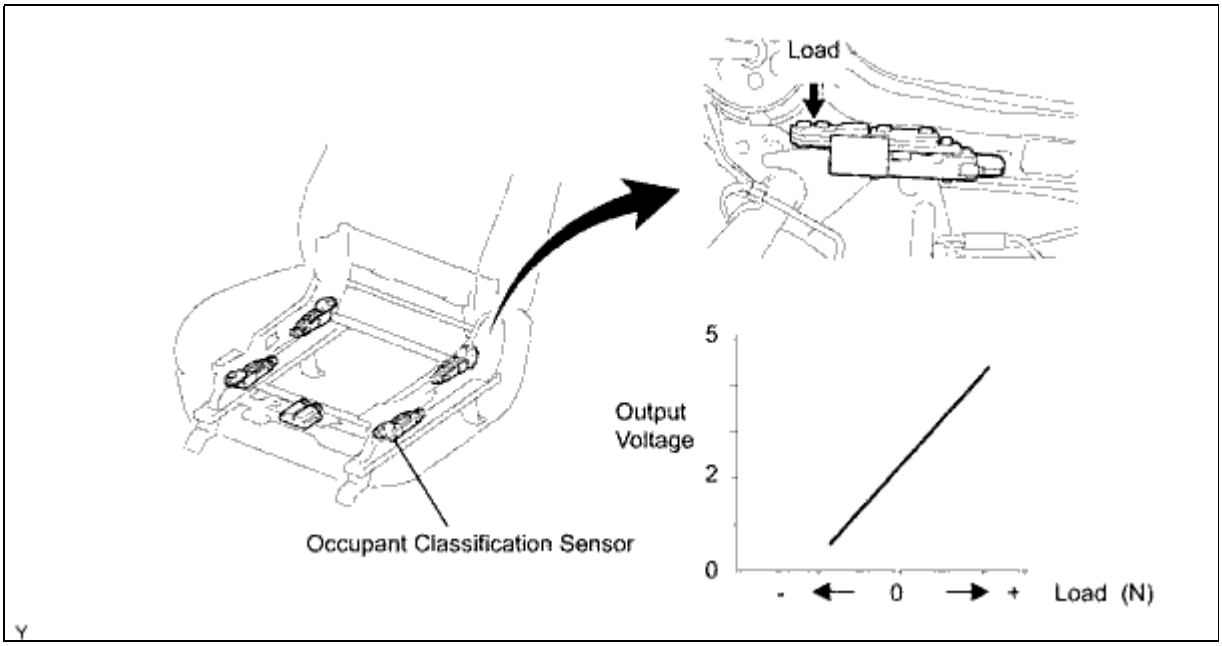
(1) The front passenger occupant detection ECU determines whether the front passenger seat is occupied by an adult or child (with child seat) or is unoccupied, based on the load that is applied to the front passenger seat and whether the seat belt is buckled. The system restricts the deployment of the front passenger airbag, front passenger side airbag, and the front passenger seat belt pretensioner in accordance with this judgment. The result is informed to the driver through the airbag ON/OFF indicator illumination.

(b) System Configuration

(1) This system consists of the occupant detection ECU, occupant classification sensors, airbag ON/OFF indicator, seat belt buckle switches, and airbag sensor assembly.

(c) Occupant Detection ECU and Sensor

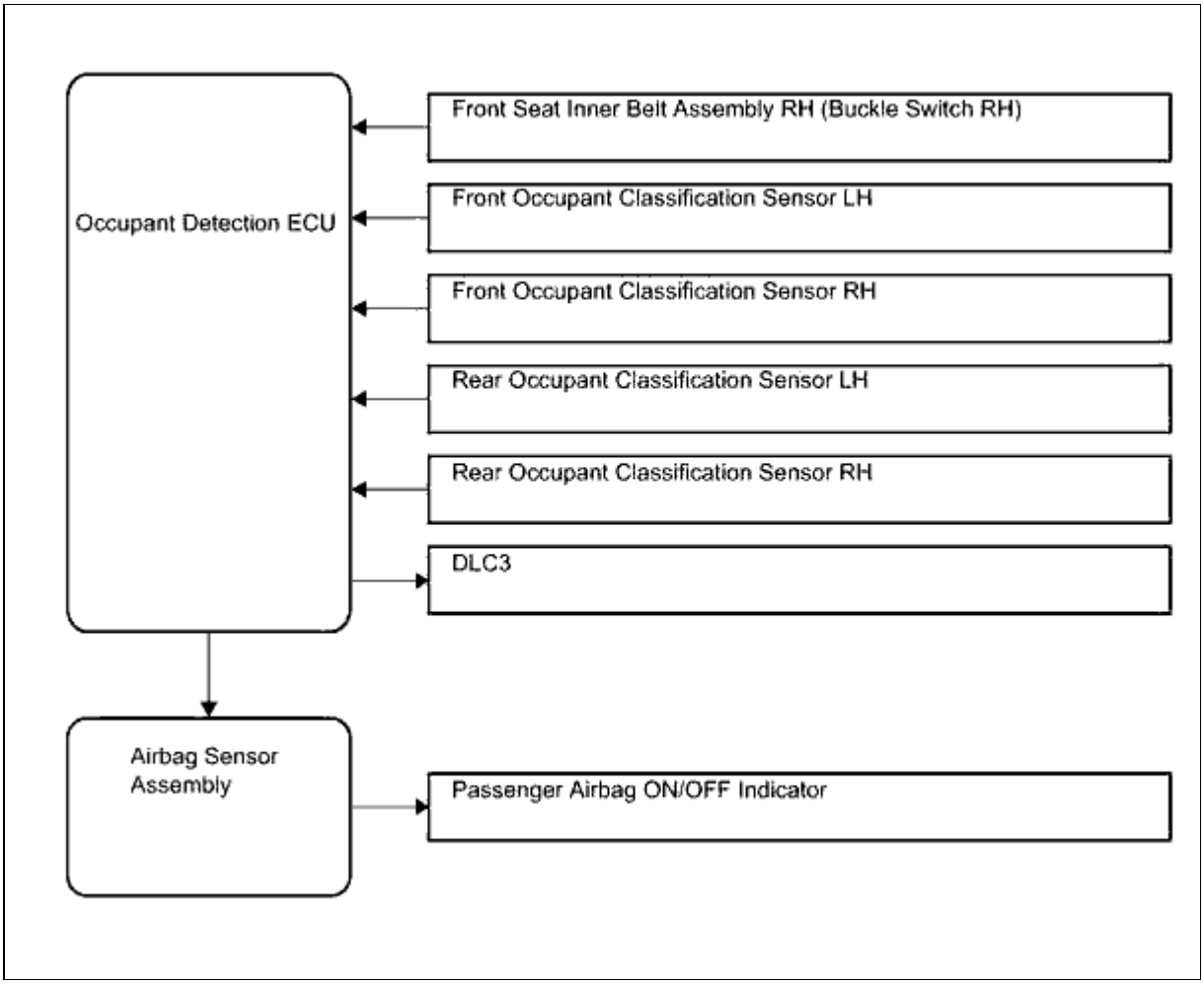
(1) The occupant classification sensors are installed on four brackets connecting the seat rail and the seat frame. The resistance values of these sensors, which vary in accordance with the load that acts on the brackets, are transmitted to the occupant detection ECU as signals. Upon receipt of the signals, the ECU determines the front passenger seat occupant conditions.



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Last Modified: 11-13-2015	6.6 U	**Doc ID:** RM0000010VL07ZX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: SYSTEM DIAGRAM; 2016 MY Tacoma [08/2015 -]		

SYSTEM DIAGRAM

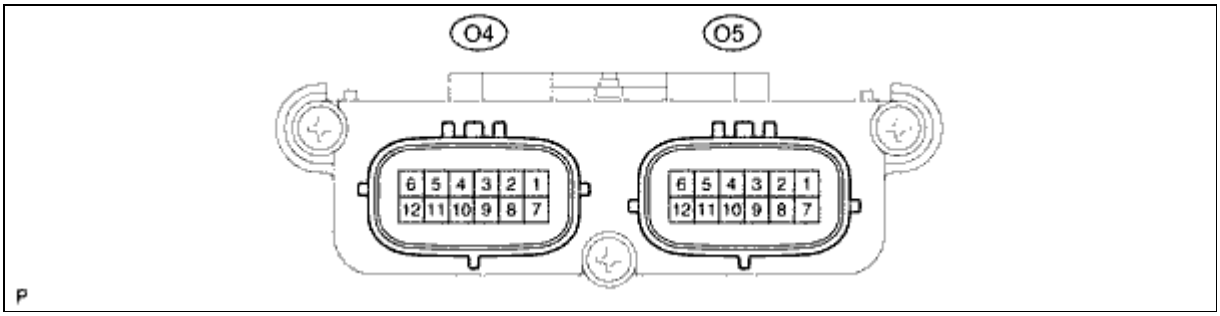


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Last Modified: 11-13-2015	6.6 U	**Doc ID:** RM0000010V407XX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: TERMINALS OF ECU; 2016 MY Tacoma [08/2015 -]		

TERMINALS OF ECU

1. OCCUPANT DETECTION ECU



SYMBOLS (TERMINAL NO.)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
+B (O5-1) - GND (O5-3)	R - W-B	Battery	Ignition switch on	10 to 14 V
DIA (O5-2) - GND (O5-3)	W - W-B	Diagnosis (DLC3)	Ignition switch on	Pulse generation
GND (O5-3) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
FSR- (O5-4) - GND (O5-3)	B - W-B	Airbag sensor assembly communication line (-)	Always	Below 1 Ω
BGND (O5-5) - GND (O5-3)	P-G - W-B	Passenger side buckle switch ground line	Always	Below 1 Ω
IG (O5-7) - GND (O5-3)	BE - W-B	Power source (IGN Fuse)	Ignition switch on	10 to 14 V
FSR+ (O5-8) - FSR- (O5-4)	W - B	Airbag sensor assembly communication line	Ignition switch on	Pulse generation
BSW (O5-9) - BGND (O5-5)	G - P-G	Passenger side buckle switch line	Buckle switch ON Buckle switch OFF	Pulse generation
SGD1 (O4-1) - GND (O5-3)	L - W-B	Occupant classification sensor front LH ground line	Always	Below 1 Ω
SGD2 (O4-2) - GND (O5-3)	BE - W-B	Occupant classification sensor front RH ground line	Always	Below 1 Ω
SGD3 (O4-3) - GND (O5-3)	P-G - W-B	Occupant classification sensor rear LH ground line	Always	Below 1 Ω

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SYMBOLS (TERMINAL NO.)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFICATION
SGD4 (O4-4) - GND (O5-3)	B-R - W-B	Occupant classification sensor rear RH ground line	Always	Below 1 Ω
SVC1 (O4-11) - SGD1 (O4-1)	B-L - L	Occupant classification sensor front LH power supply line	Ignition switch on, a load is applied to occupant classification sensor front LH	4.5 to 5.1 V
SVC2 (O4-12) - SGD2 (O4-2)	LG-B - BE	Occupant classification sensor front RH power supply line	Ignition switch on, a load is applied to occupant classification sensor front RH	4.5 to 5.1 V
SVC3 (O4-5) - SGD3 (O4-3)	B -P-G	Occupant classification sensor rear LH power supply line	Ignition switch on, a load is applied to occupant classification sensor rear LH	4.5 to 5.1 V
SVC4 (O4-6) - SGD4 (O4-4)	GR-L - B-R	Occupant classification sensor rear RH power supply line	Ignition switch on, a load is applied to occupant classification sensor rear RH	4.5 to 5.1 V
SIG1 (O4-7) - SGD1 (O4-1)	G - L	Occupant classification sensor front LH signal line	Ignition switch on, a load is applied to occupant classification sensor front LH	Pulse generation
SIG2 (O4-8) - SGD2 (O4-2)	R-L - BE	Occupant classification sensor front RH signal line	Ignition switch on, a load is applied to occupant classification sensor front RH	Pulse generation
SIG3 (O4-9) - SGD3 (O4-3)	R-B - P-G	Occupant classification sensor rear LH signal line	Ignition switch on, a load is applied to occupant classification sensor rear LH	Pulse generation
SIG4 (O4-10) - SGD4 (O4-4)	L-R - B-R	Occupant classification sensor rear RH signal line	Ignition switch on, a load is applied to occupant classification sensor rear RH	Pulse generation

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Last Modified: 11-13-2015	6.6 J	**Doc ID:** RM0000015IJ02GX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: OCCUPANT CLASSIFICATION SYSTEM: Trouble in Passenger Airbag ON/OFF Indicator; 2016 MY Tacoma [08/2015 -]		

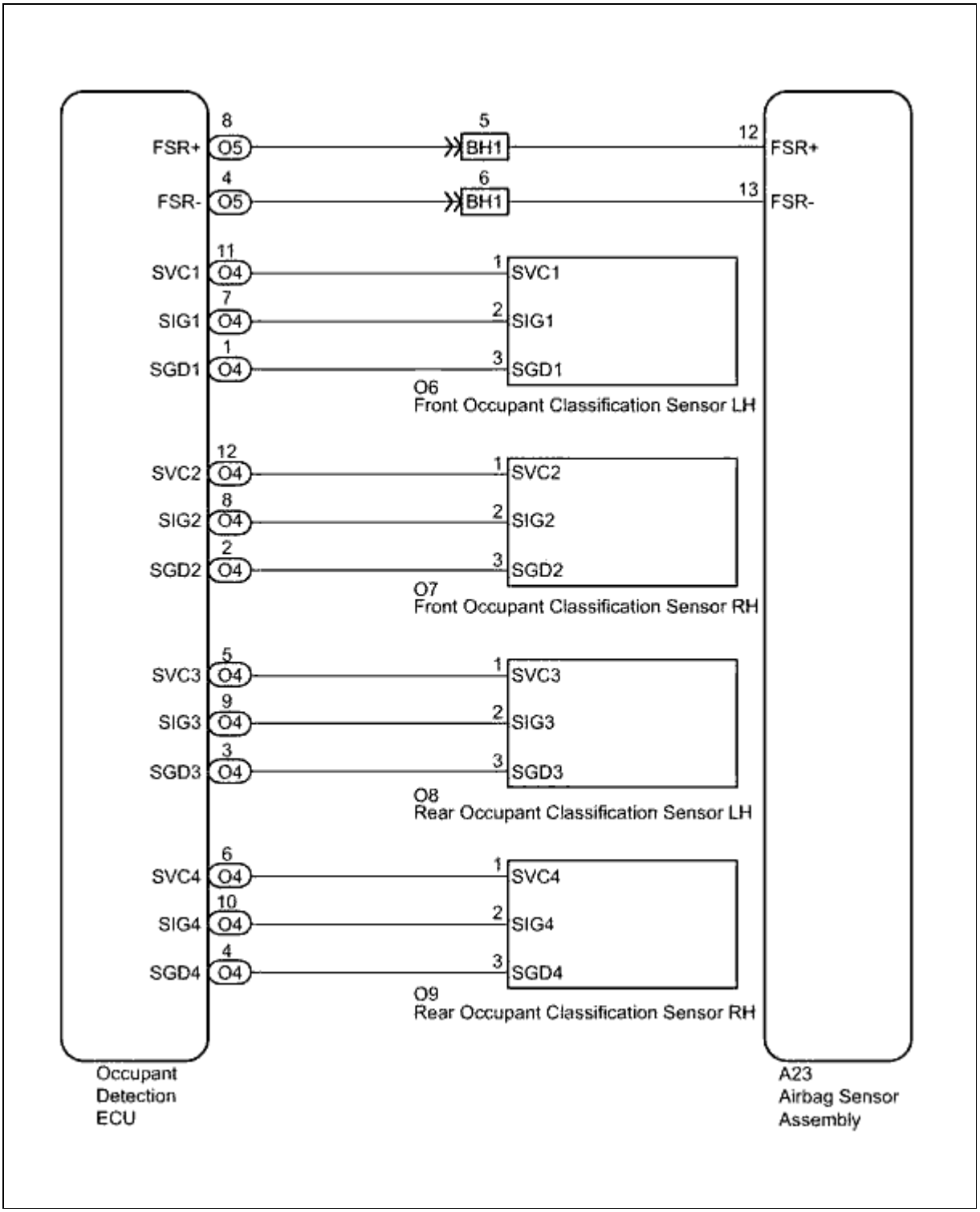
Trouble in Passenger Airbag ON/OFF Indicator

DESCRIPTION

The passenger airbag ON/OFF indicator consists of the airbag sensor assembly, occupant detection ECU, air conditioning control assembly, and 4 occupant classification sensors. This system controls the passenger airbag deployment according to the occupancy condition of the front passenger seat, and also displays those detected conditions.

WIRING DIAGRAM

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INSPECTION PROCEDURE

PROCEDURE

1.	**CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION**

(a) Turn the ignition switch to ON.

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(b) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then turns off for approximately 2 seconds.

(c) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator indicates ON/OFF according to the condition listed below.

FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Adult seated	ON	OFF	OFF
Child seated / Child restraint system set	OFF	ON	OFF
Vacant	OFF	OFF	OFF

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

2.	**CHECK DTC**

(a) Turn the ignition switch to ON, and wait for at least 60 seconds.

(b) Check for DTCs INFO .

OK:
DTC is not output.

NG ▶ **GO TO DTC CHART**

OK
▼

3.	**CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION**

(a) Turn the ignition switch to ON.

(b) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then turns off for approximately 2 seconds.

(c) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator indicates ON/OFF according to the condition listed below.

FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Adult seated	ON	OFF	OFF
Child seated / Child restraint system set	OFF	ON	OFF

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FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Vacant	OFF	OFF	OFF

OK ▶ **USE SIMULATION METHOD TO CHECK**

NG
▼

4.	CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch off.

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

(c) Check that the connectors are properly connected to the airbag sensor assembly, occupant detection ECU, and 4 occupant classification sensors.

OK:

The connectors are connected.

NG ▶ **CONNECT CONNECTORS**

OK
▼

5.	CHECK CONNECTORS

(a) Check that the connectors (on the airbag sensor assembly side, occupant detection ECU side and 4 occupant classification sensors side) are not damaged INFO .

OK:

The connectors are not deformed or damaged.

NG ▶ **REPAIR OR REPLACE WIRE HARNESS**

OK
▼

6.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

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(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 9**

OK ▼

7.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard Value:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 9**

OK ▼

8.	**CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION**

(a) Turn the ignition switch to ON.

(b) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then turns off for approximately 2 seconds.

(c) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator indicates ON/OFF according to the condition listed below.

FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Adult seated	ON	OFF	OFF
Child seated / Child restraint system set	OFF	ON	OFF
Vacant	OFF	OFF	OFF

OK ▶ **END**

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NG

9.	REPAIR FRONT SEAT ASSEMBLY (PASSENGER SEAT)

(a) Loosen the 4 installation bolts fixing the front passenger seat, and then re-tighten them to the specified torque.

Torque:
37 N*m (375 kgf*cm, 27 ft.*lbf)

NEXT

10.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 13**

OK

11.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard Value:
27 to 33 kg (59.52 to 72.75 lb)

NG ▶ **GO TO STEP 13**

OK

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12.	PASSENGER AIRBAG ON/OFF INDICATOR OPERATION

(a) Turn the ignition switch to ON.

(b) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then turns off for approximately 2 seconds.

(c) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator indicates ON/OFF according to the condition listed below.

FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Adult seated	ON	OFF	OFF
Child seated / Child restraint system set	OFF	ON	OFF
Vacant	OFF	OFF	OFF

NG ▶ **GO TO STEP 13**

OK ▶ **END**

13.	READ VALUE USING TECHSTREAM

(a) Turn the ignition switch to ON.

(b) Using the Techstream, read Data List INFO .

Occupant detection ECU

ITEM	MEASUREMENT ITEM/ RANGE (DISPLAY)	NORMAL CONDITION	DIAGNOSTIC NOTE
Passenger Buckle SW	Buckle switch (Passenger side)/ Unset: Unfasten the passenger side seat belt Set: Fasten the passenger side seat belt NG: Passenger side seat belt has trouble	Unset/Set	-

OK:

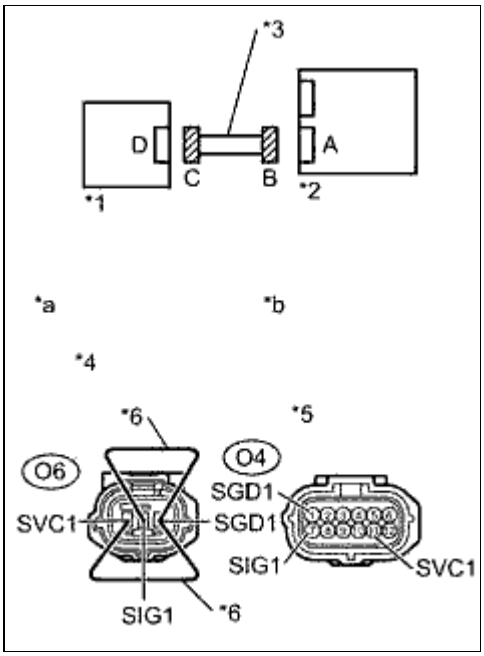
The Techstream display changes correctly in accordance with the operation of the buckle switch.

NG ▶ **GO TO STEP 27**

OK

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14.	CHECK NO. 1 SEAT WIRE (OCCUPANT CLASSIFICATION SENSOR FRONT LH CIRCUIT)



(a) Disconnect the connectors from the occupant detection ECU and the occupant classification sensor front LH.

(b) Using service wires, connect O6-1 (SVC1) and O6-3 (SGD1), and connect O6-2 (SIG1) and O6-3 (SGD1) of connector C.

NOTICE:

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

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

Standard Resistance:

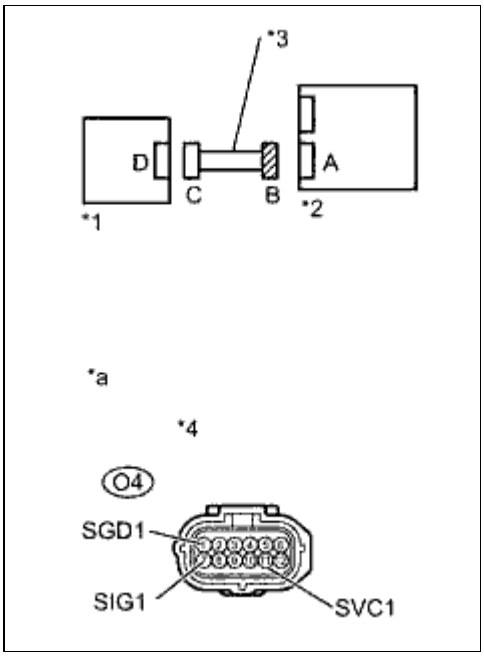
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-7 (SIG1) - O4-1 (SGD1)	Always	Below 1 Ω
O4-11 (SVC1) - O4-1 (SGD1)	Always	Below 1 Ω

Text in Illustration

*1	Front Occupant Classification Sensor LH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector C
*5	Connector B
*6	Service Wire
*a	Front view of wire harness connector (to Front Occupant Classification Sensor LH)

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*b	Front view of wire harness connector (to Occupant Detection ECU)



(d) Disconnect the service wires from connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-7 (SIG1) - O4-1 (SGD1))	Always	1 MΩ or Higher
O4-11 (SVC1) - O4-1 (SGD1)	Always	1 MΩ or Higher
O4-7 (SIG1) - O4-11 (SVC1)	Always	1 MΩ or Higher
O4-1 (SGD1) - Body ground	Always	1 MΩ or Higher
O4-7 (SIG1) - Body ground)	Always	1 MΩ or Higher
O4-11 (SVC1) - Body ground	Always	1 MΩ or Higher

(f) Connect the negative (-) terminal cable to the battery.

(g) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
O4-1 (SGD1) - Body ground	Ignition switch ON	Below 1 V
O4-7 (SIG1) - Body ground	Ignition switch ON	Below 1 V
O4-11 (SVC1) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

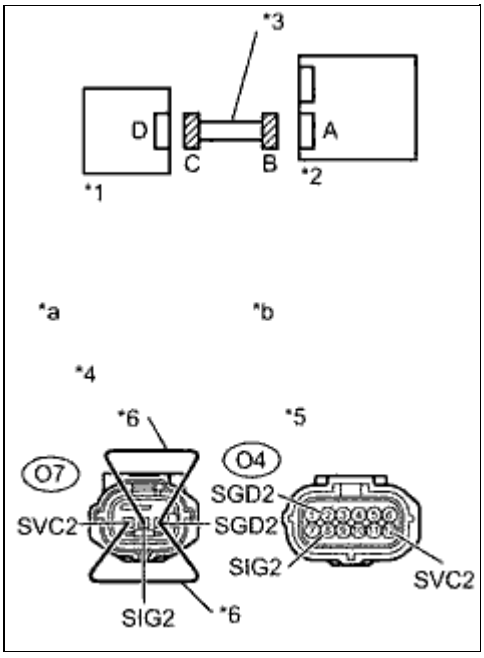
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*1	Front Occupant Classification Sensor LH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector B
*a	Front view of wire harness connector (to Occupant Detection ECU)

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK
▼

15.	**CHECK NO. 1 SEAT WIRE (OCCUPANT CLASSIFICATION SENSOR FRONT RH CIRCUIT)**



(a) Turn the ignition switch off.

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

(c) Disconnect the connectors from the occupant detection ECU and the occupant classification sensor front RH.

(d) Using service wires, connect O7-1 (SVC2) and O7-3 (SGD2), and connect O7-2 (SIG2) and O7-3 (SGD2) of connector C.

NOTICE:

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

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

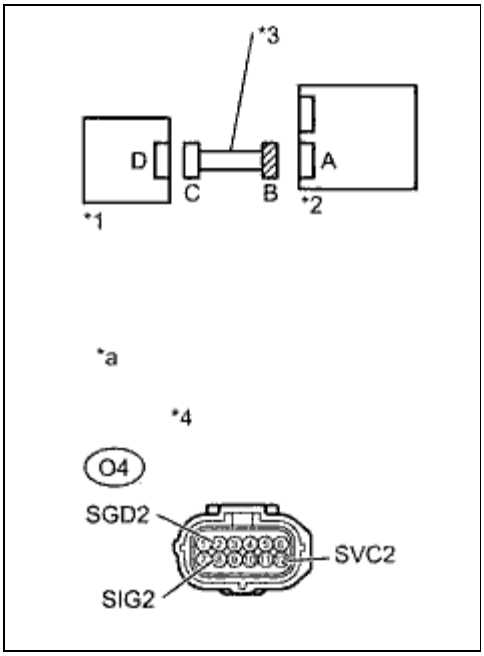
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Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-8 (SIG2) - O4-2 (SGD2)	Always	Below 1 Ω
O4-12 (SVC2) - O4-2 (SGD2)	Always	Below 1 Ω

Text in Illustration

*1	Front Occupant Classification Sensor RH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector C
*5	Connector B
*6	Service Wire
*a	Front view of wire harness connector (to Front Occupant Classification Sensor RH)
*b	Front view of wire harness connector (to Occupant Detection ECU)



(f) Disconnect the service wires from connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-8 (SIG2) - O4-2 (SGD2)	Always	1 MΩ or Higher
O4-12 (SVC2) - O4-2 (SGD2)	Always	1 MΩ or Higher

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-8 (SIG2) - O4-12 (SVC2)	Always	1 MΩ or Higher
O4-2 (SGD2) - Body ground	Always	1 MΩ or Higher
O4-8 (SIG2) - Body ground	Always	1 MΩ or Higher
O4-12 (SVC2) - Body ground	Always	1 MΩ or Higher

(h) Connect the negative (-) terminal cable to the battery.

(i) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
O4-2 (SGD2) - Body ground	Ignition switch ON	Below 1 V
O4-8 (SIG2) - Body ground	Ignition switch ON	Below 1 V
O4-12 (SVC2) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

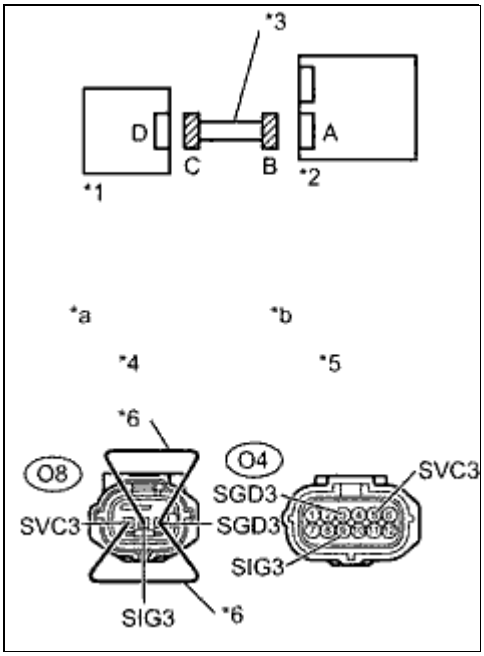
*1	Front Occupant Classification Sensor RH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector B
*a	Front view of wire harness connector (to Occupant Detection ECU)

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK
▼

16.	**CHECK NO. 1 SEAT WIRE (OCCUPANT CLASSIFICATION SENSOR REAR LH CIRCUIT)**

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(a) Turn the ignition switch off.

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

(c) Disconnect the connectors from the occupant detection ECU and the occupant classification sensor rear LH.

(d) Using service wires, connect O8-1 (SVC3) and O8-3 (SGD3), and connect O8-2 (SIG3) and O8-3 (SGD3) of connector C.

NOTICE:

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

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

Standard Resistance:

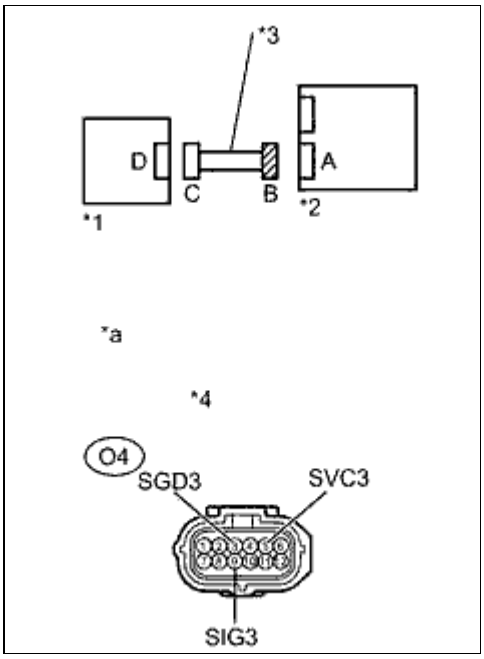
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-5 (SVC3) - O4-3 (SGD3)	Always	Below 1 Ω
O4-9 (SIG3) - O4-3 (SGD3)	Always	Below 1 Ω

Text in Illustration

*1	Rear Occupant Classification Sensor LH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector C
*5	Connector B
*6	Service Wire
*a	Front view of wire harness connector (to Rear Occupant Classification Sensor LH)

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*b	Front view of wire harness connector (to Occupant Detection ECU)



(f) Disconnect the service wires from connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-5 (SVC3) - O4-3 (SGD3)	Always	1 MΩ or Higher
O4-9 (SIG3) - O4-3 (SGD3)	Always	1 MΩ or Higher
O4-5 (SVC3) - O4-9 (SIG3)	Always	1 MΩ or Higher
O4-3 (SGD3) - Body ground	Always	1 MΩ or Higher
O4-5 (SVC3) - Body ground	Always	1 MΩ or Higher
O4-9 (SIG3) - Body ground	Always	1 MΩ or Higher

(h) Connect the negative (-) terminal cable to the battery.

(i) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
O4-3 (SGD3) - Body ground	Ignition switch ON	Below 1 V
O4-5 (SVC3) - Body ground	Ignition switch ON	Below 1 V
O4-9 (SIG3) - Body ground	Ignition switch ON	Below 1 V

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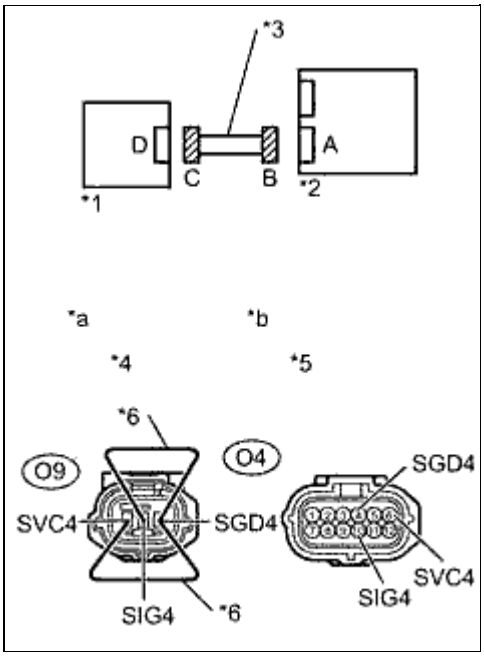
Text in Illustration

*1	Rear Occupant Classification Sensor LH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector B
*a	Front view of wire harness connector (to Occupant Detection ECU)

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

17.	**CHECK NO. 1 SEAT WIRE (OCCUPANT CLASSIFICATION SENSOR REAR RH CIRCUIT)**



(a) Turn the ignition switch off.

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

(c) Disconnect the connectors from the occupant detection ECU and the occupant classification sensor rear LH.

(d) Using service wires, connect O9-1 (SVC4) and O9-3 (SGD4), and connect O9-2 (SIG4) and O9-3 (SGD4) of connector C.

NOTICE:

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

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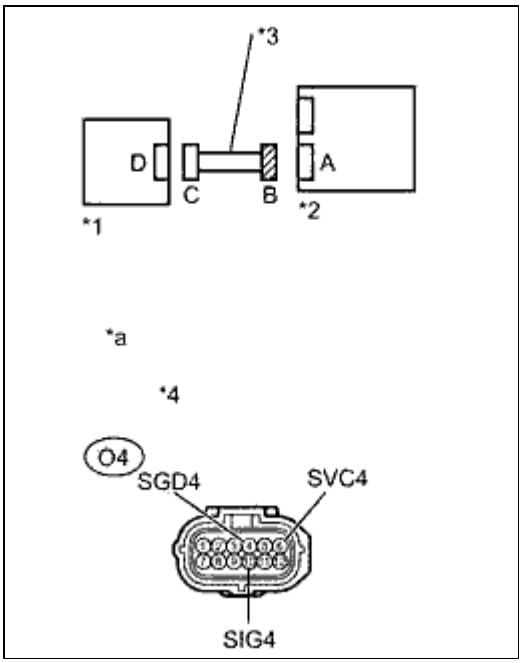
(e) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-6 (SVC4) - O4-4 (SGD4)	Always	Below 1 Ω
O4-10 (SIG4) - O4-4 (SGD4)	Always	Below 1 Ω

Text in Illustration

*1	Rear Occupant Classification Sensor RH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector C
*5	Connector B
*6	Service Wire
*a	Front view of wire harness connector (to Rear Occupant Classification Sensor RH)
*b	Front view of wire harness connector (to Occupant Detection ECU)



(f) Disconnect the service wires from connector C.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-6 (SVC4) - O4-4 (SGD4)	Always	1 MΩ or Higher

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
O4-10 (SIG4) - O4-4 (SGD4)	Always	1 MΩ or Higher
O4-6 (SVC4) - O4-10 (SIG4)	Always	1 MΩ or Higher
O4-4 (SGD4) - Body ground	Always	1 MΩ or Higher
O4-6 (SVC4) - Body ground	Always	1 MΩ or Higher
O4-10 (SIG4) - Body ground	Always	1 MΩ or Higher

(h) Connect the negative (-) terminal cable to the battery.

(i) Turn the ignition switch to ON.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
O4-4 (SGD4) - Body ground	Ignition switch ON	Below 1 V
O4-6 (SVC4) - Body ground	Ignition switch ON	Below 1 V
O4-10 (SIG4) - Body ground	Ignition switch ON	Below 1 V

Text in Illustration

*1	Rear Occupant Classification Sensor RH
*2	Occupant Detection ECU
*3	No. 1 Seat Wire
*4	Connector B
*a	Front view of wire harness connector (to Occupant Detection ECU)

NG ▶ **REPAIR OR REPLACE NO. 1 SEAT WIRE**

OK ▼

18.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

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OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

19.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard Value:

27 to 33 kg (59.52 to 72.75 lb)

NEXT

20.	**CHECK AIRBAG SENSOR ASSEMBLY**

(a) Turn the ignition switch off.

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

(c) Replace the airbag sensor assembly INFO .

HINT:

Perform the inspection using parts from a normal vehicle when possible.

(d) Connect the connectors to the airbag sensor assembly.

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

(f) Turn the ignition switch to ON.

(g) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then turns off for approximately 2 seconds.

(h) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator indicates ON/OFF according to the condition listed below.

FRONT SEAT PASSENGER	ON INDICATOR	OFF INDICATOR	SRS WARNING LIGHT
Adult seated	ON	OFF	OFF
Child seated / Child restraint system set	OFF	ON	OFF
Vacant	OFF	OFF	OFF

OK **END**

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NG

21.	**REPLACE OCCUPANT DETECTION ECU**

(a) Turn the ignition switch off.

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

(c) Replace the occupant detection ECU INFO .

NEXT

22.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NG ▶ **GO TO STEP 24**

OK

23.	**PERFORM SENSITIVITY CHECK**

(a) Using the Techstream, perform the sensitivity check INFO .

Standard Value:
27 to 33 kg (59.52 to 72.75 lb)

OK ▶ **END**

NG

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24.	REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH

(a) Turn the ignition switch off.

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

(c) Replace the front seat with adjuster frame assembly RH INFO .

NEXT

25.	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:
"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT

26.	PERFORM SENSITIVITY CHECK

(a) Using the Techstream, perform the sensitivity check INFO .

Standard Value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT **END**

27.	CHECK CONNECTORS

(a) Turn the ignition switch off.

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

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(c) Check that the connectors are properly connected to the occupant detection ECU and front seat inner belt assembly RH.

OK:

The connectors are properly connected.

(d) Disconnect the connectors from the occupant detection ECU and front seat inner belt assembly RH.

(e) Check that the connectors are not damaged or deformed.

OK:

The connectors are normal.

NG ▶ **REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR**

OK ▼

28.	**REPLACE FRONT SEAT INNER BELT ASSEMBLY RH**

(a) Connect the connector to the occupant detection ECU.

(b) Replace the front seat inner belt assembly RH INFO .

NEXT ▼

29.	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the negative (-) terminal cable to the battery.

(b) Connect the Techstream to the DLC3.

(c) Turn the ignition switch to ON.

(d) Using the Techstream, perform the zero point calibration INFO .

OK:

"Zero Point Calibration is complete." is displayed on the Techstream.

NEXT ▼

30.	**PERFORM SENSITIVITY CHECK**

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(a) Using the Techstream, perform the sensitivity check INFO .

Standard Value:

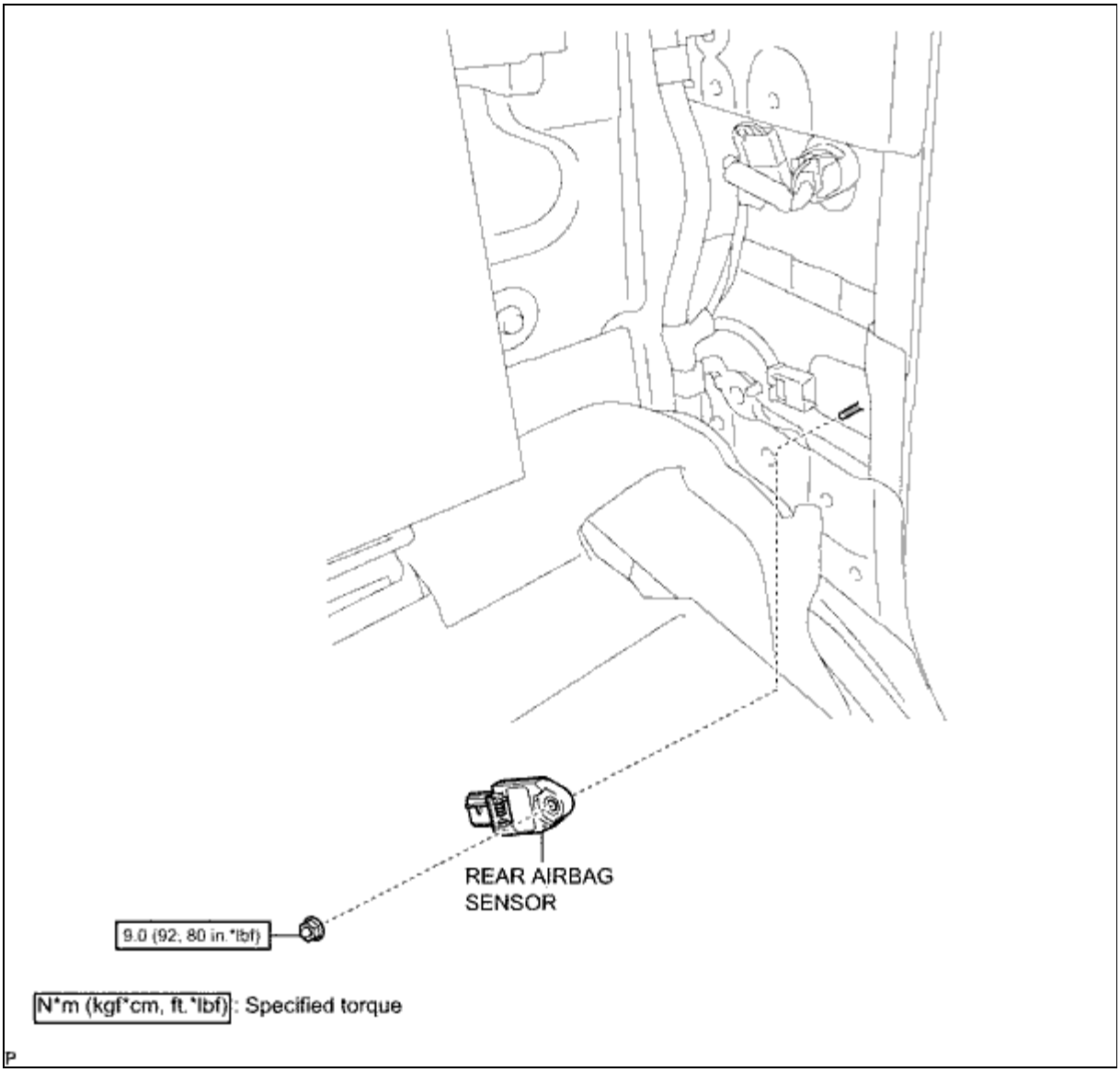
27 to 33 kg (59.52 to 72.75 lb)

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000000UWQ08IX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Access Cab): COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UWO0CBX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Access Cab): INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL REAR AIRBAG SENSOR

(a) Check that the ignition switch is off.

(b) Check that the battery negative (-) terminal is disconnected.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Install the rear airbag sensor with the nut.

Torque:

9.0 N·m {92 kgf·cm, 80in·lbf}

CAUTION:

- If the rear airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.
- When installing the rear airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.

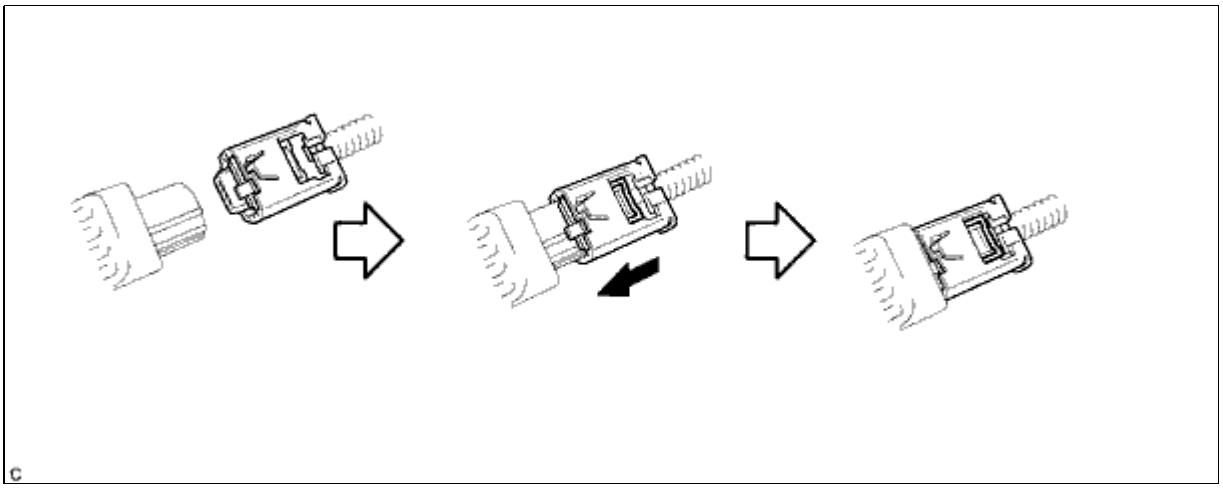
(d) Check that there is no looseness in the installation parts of the rear airbag sensor.

(e) Connect the connector to the rear airbag sensor.

NOTICE:

When connecting any airbag connector, take care not to damage the airbag wire harness.

(1) Connect the connector as shown in the illustration (when locking, make sure that the outer connector locking sleeve returns to its original position and a click sound can be heard).



HINT:

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When connected, the outer connector locking sleeve will slide. Be sure not to hold the outer connector locking sleeve while connecting, as it may result in an insecure fit.

2. INSTALL REAR SEAT 3 POINT TYPE OUTER BELT ASSEMBLY

INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000001CPL01VX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Access Cab): ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT REAR AIRBAG SENSOR (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT REAR AIRBAG SENSOR (for Vehicle Involved in Collision and Airbag has not Deployed)

CAUTION:

For rear airbag sensor removal and installation procedures, see pages INFO and INFO , and carefully follow the correct procedure.

(a) Perform a diagnostic system check INFO .

(b) When the quarter panel of the vehicle or its periphery is damaged, check whether there is any damage to the rear airbag sensor. If there are any defects, such as those mentioned below, replace the rear airbag sensor with a new one:

- Any cracks, dents or chips in the case.
- Any cracks or other damage to the connector.
- Peeling of the label or damage to the serial number.

3. INSPECT REAR AIRBAG SENSOR (for Vehicle Involved in Collision)

CAUTION:

For rear airbag sensor removal and installation procedures, see pages INFO and INFO , and carefully follow the correct procedure.

(a) Replace the rear airbag sensor.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UWR0C9X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Access Cab): REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing INFO .

HINT:

- Use the same procedure for the LH side and RH side.
- The procedure listed below is the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

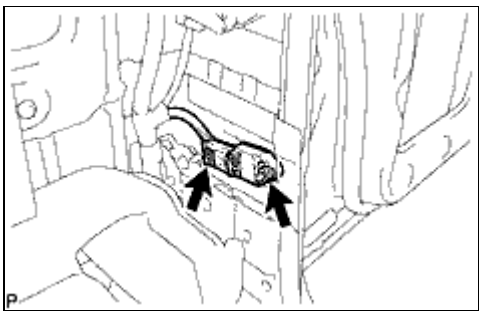
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE REAR SEAT 3 POINT TYPE OUTER BELT ASSEMBLY

INFO

3. REMOVE REAR AIRBAG SENSOR



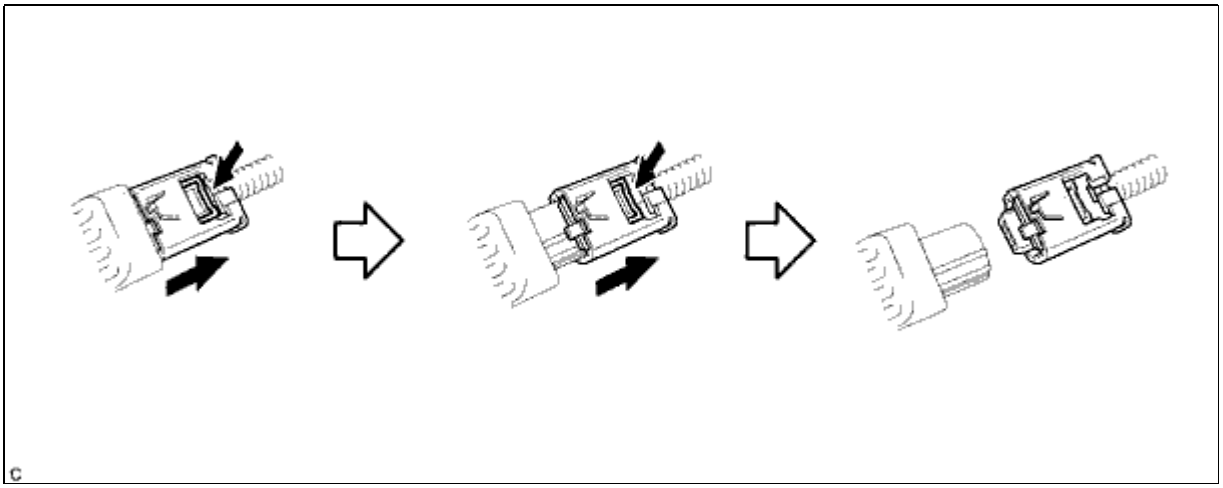
(a) Disconnect the connector from the rear airbag sensor.

NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(1) Push and hold the white housing lock, and slide the yellow outer connector locking sleeve.

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(2) Push and hold the white housing lock again, and slide the yellow outer connector locking sleeve to disconnect the connector.

(b) Remove the nut and the rear airbag sensor LH.

NOTICE:

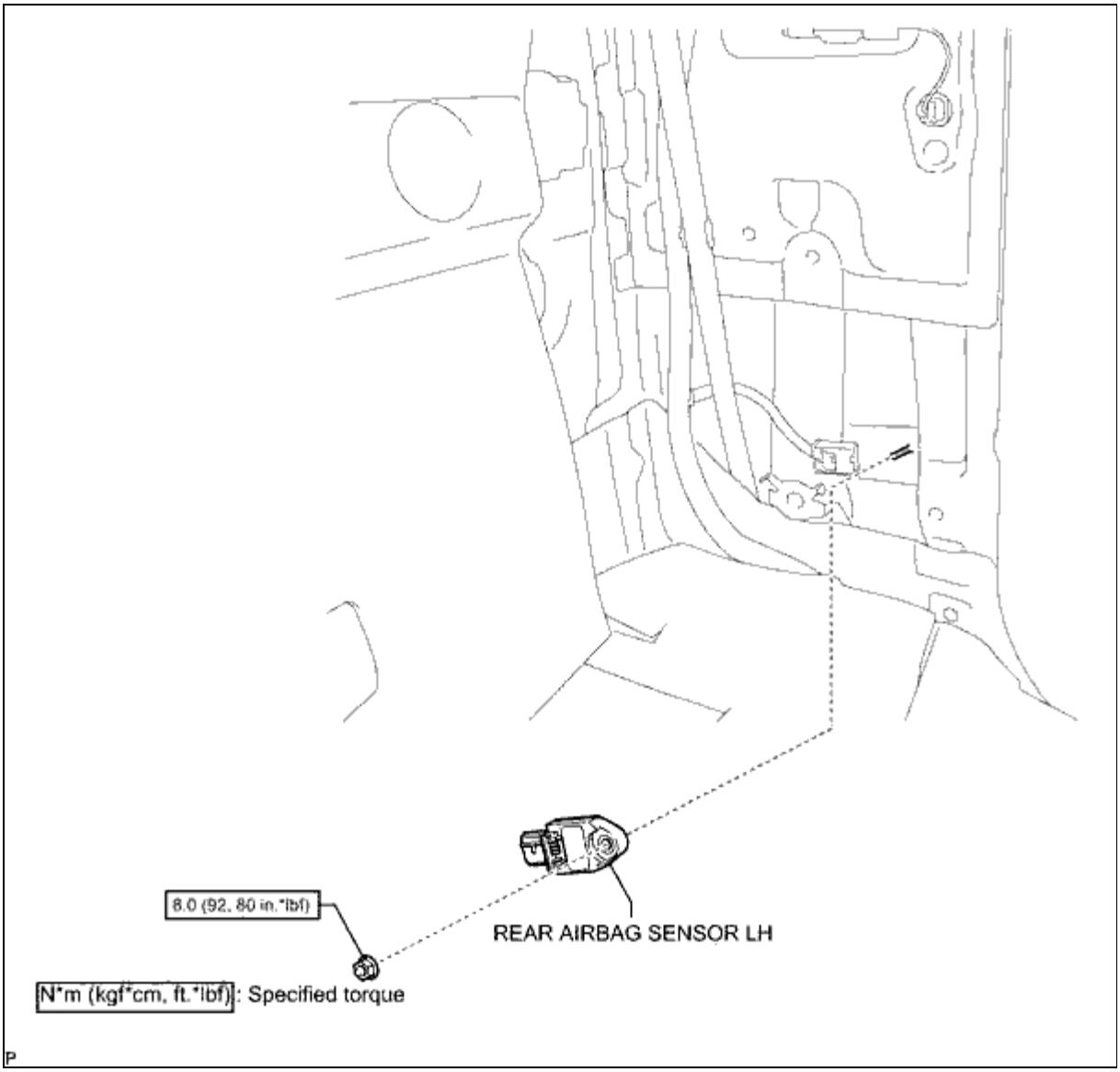
Loosen the nut while holding the door side airbag sensor because the rear airbag sensor pin (stopper) is easily damaged.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000000UWQ08HX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Double Cab): COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UWO0CAX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Double Cab): INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL REAR AIRBAG SENSOR LH

(a) Check that the ignition switch is OFF.

(b) Check that the cable is disconnected from the battery negative (-) terminal.

CAUTION:

After disconnecting the cable from the terminal, wait for at least 90 seconds before starting the operation.

(c) Install the rear airbag sensor with the nut.

Torque:

9.0 N·m {92 kgf·cm, 80in·lbf}

NOTICE:

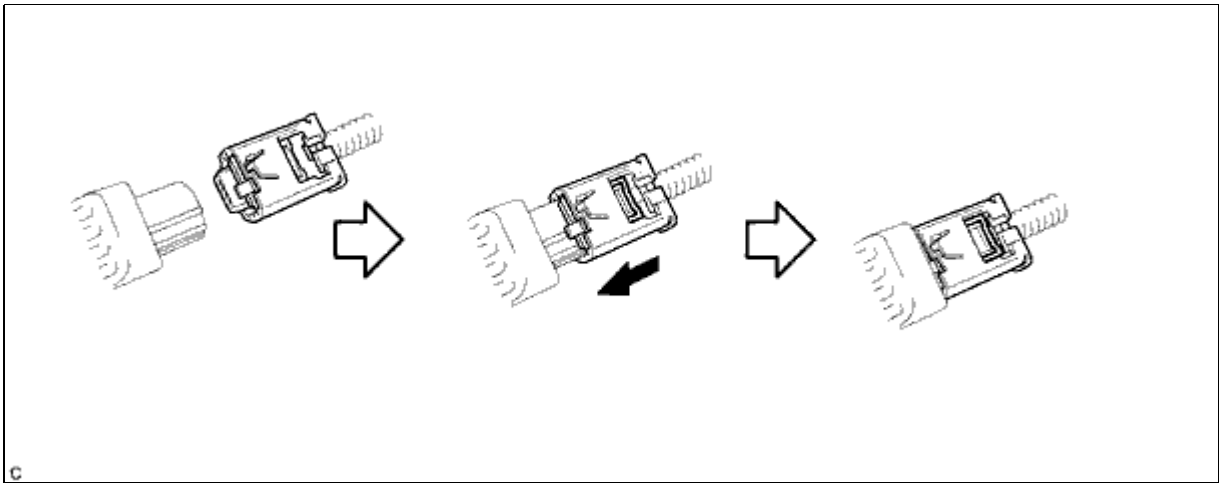
- Installation of the connector is done with the sensor assembly installed. Make sure the sensor assembly is installed to the specified torque.
- If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.
- When installing the sensor assembly, make sure that the SRS wiring does not interfere with any other parts and is not pinched between other parts.
- After installation, shake the sensor assembly to check that it is not loose.

(d) Connect the connector to the rear airbag sensor LH.

NOTICE:

When connecting any airbag connector, take care not to damage the airbag wire harness.

(1) Connect the connector as shown in the illustration (when locking, make sure that the outer connector locking sleeve returns to its original position and a click sound can be heard).



HINT:

When connected, the outer connector locking sleeve will slide. Be sure not to hold the outer connector locking sleeve while connecting, as it may result in an insecure fit.

2. INSTALL REAR SEAT 3 POINT TYPE OUTER BELT ASSEMBLY LH

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INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000000VPW0C7X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Double Cab): ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT REAR AIRBAG SENSOR (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT REAR AIRBAG SENSOR (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .

(b) When the quarter panel of the vehicle or its area is damaged, check if there is any damage to the rear airbag sensor. If there are any defects as mentioned below, replace the rear airbag sensor with a new one:

- Cracks, dents or chips on the sensor housing.
- Cracks or other damage to the connector.
- Peeling off of the label or damage to the serial number.

CAUTION:

For removal and installation procedures of the rear airbag sensor. Be sure to following the correct procedure.

3. INSPECT REAR AIRBAG SENSOR (for Vehicle Involved in Collision)

(a) Replace the rear airbag sensor.

CAUTION:

For removal and installation procedures of the rear airbag sensor. Be sure to follow the correct procedure.

HINT:

The rear airbag sensor on the impacted side should be replaced after the curtain shield airbag assembly has deployed.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UWR0C8X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: REAR AIRBAG SENSOR (for Double Cab): REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. PRECAUTION

INFO

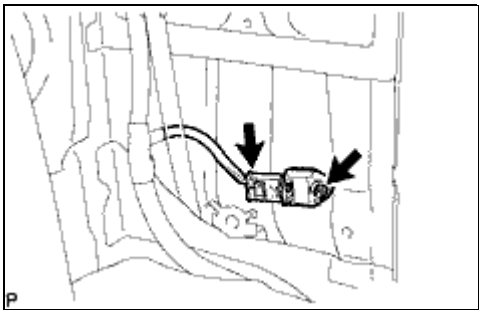
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

3. REMOVE REAR SEAT 3 POINT TYPE OUTER BELT ASSEMBLY LH

INFO

4. REMOVE REAR AIRBAG SENSOR LH

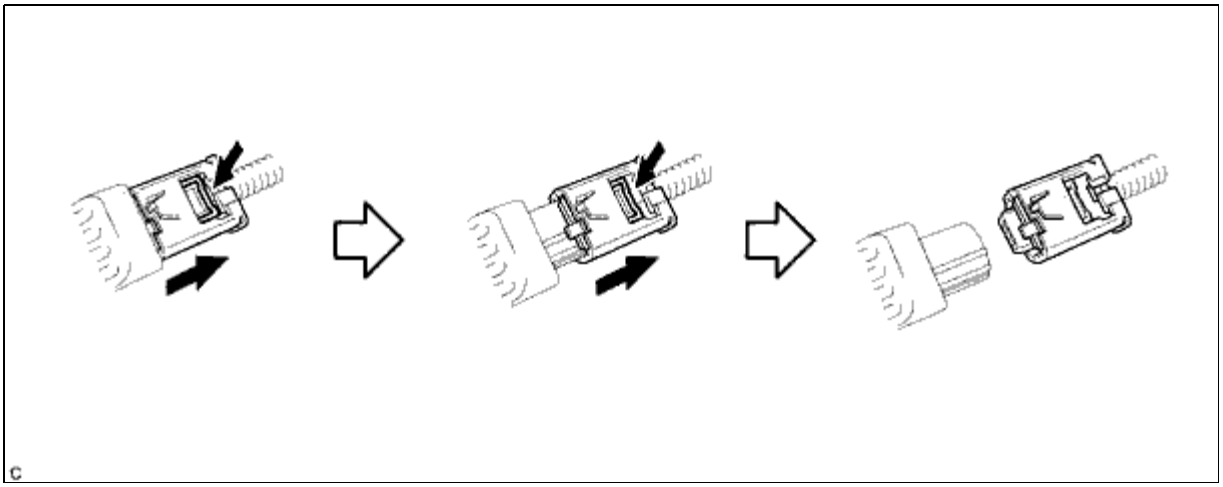


(a) Disconnect the connector from the rear airbag sensor LH.

NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(1) Push and hold the white housing lock, and slide the yellow outer connector locking sleeve.



(2) Push and hold the white housing lock again, and slide the yellow outer connector locking sleeve to disconnect the connector.

(b) Remove the nut and the rear airbag sensor LH.

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NOTICE:

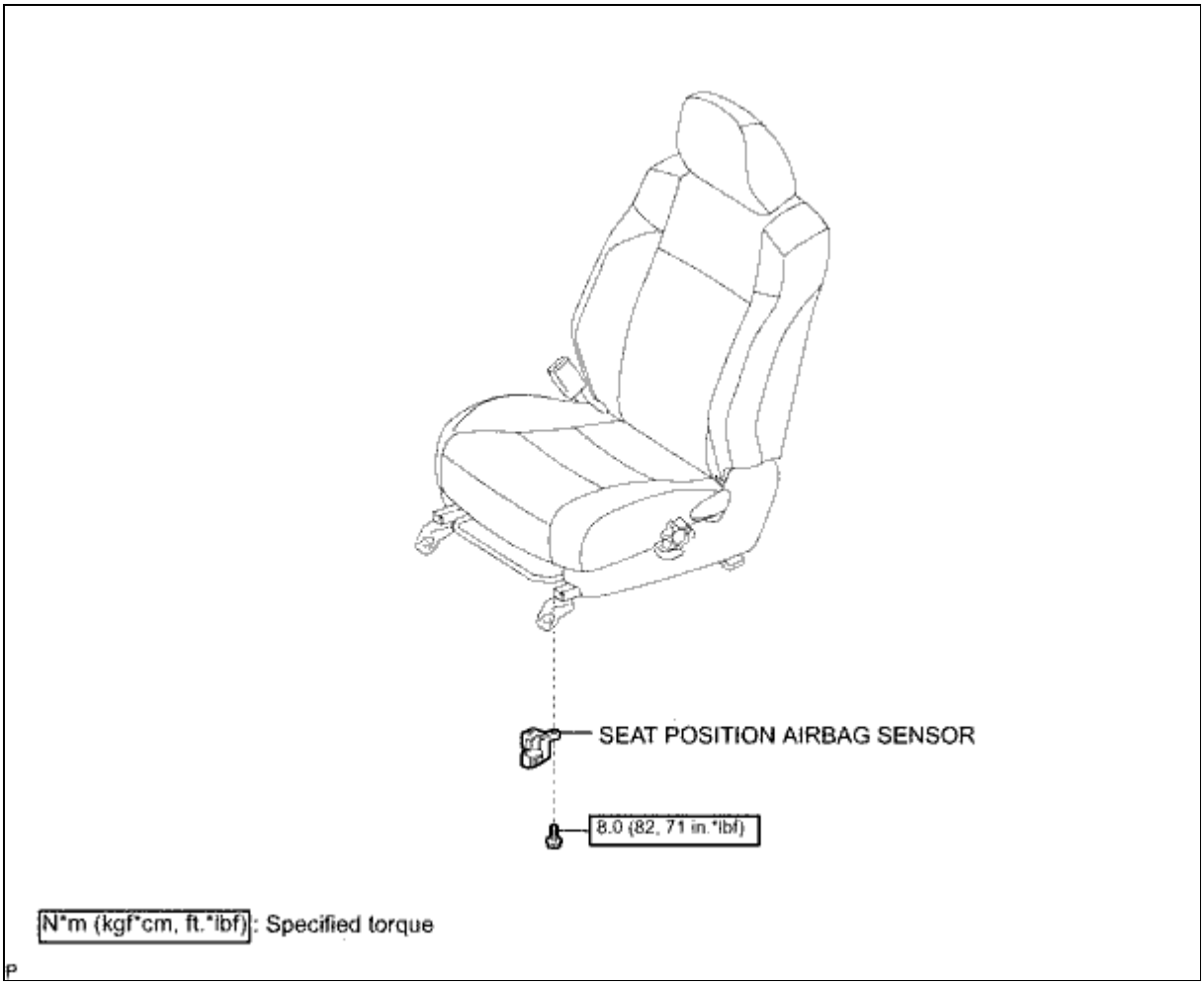
Loosen the nut while holding the door side airbag sensor because the rear airbag sensor pin (stopper) is easily damaged.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM00000181300BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SEAT POSITION SENSOR: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM00000181200CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SEAT POSITION SENSOR: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL SEAT POSITION AIRBAG SENSOR

(a) Check that the ignition switch is OFF.

(b) Check that the cable is disconnected from the battery negative (-) terminal.

CAUTION:

After disconnecting the cable from the terminal, wait for at least 90 seconds before starting the operation.

NOTICE:

- Installation of the connector is done with the sensor assembly installed. Make sure the sensor assembly is installed to the specified torque.
- If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.
- When installing the sensor assembly, make sure that the SRS wiring does not interfere with any other parts and is not pinched between other parts.
- After installation, shake the sensor assembly to check that it is not loose.

(c) Using a T30 "TORX" socket wrench, install the seat position airbag sensor with the screw.

Torque:

8.0 N·m {82 kgf·cm, 71in·lbf}

(d) Make sure that the clearance between the seat position sensor and the seat rail is within 0.6 mm (0.023 in.) and 2 mm (0.079 in.).

(e) Check that there is no slack in the installation parts of the seat position sensor.

(f) Connect the connector to the seat position sensor.

2. INSTALL FRONT SEAT ASSEMBLY LH

INFO

(See page @@@@@)

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

4. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM00000181500BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SEAT POSITION SENSOR: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT SEAT POSITION AIRBAG SENSOR (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT SEAT POSITION AIRBAG SENSOR (for Vehicle Involved in Collision)

(a) Perform a diagnostic system check INFO .

(b) Even if the airbag was not deployed, perform a visual check for damage to the seat position airbag sensor. If there are any defects as mentioned below, replace the seat position airbag sensor with a new one:

- Cracks, dents or chips in the case.
- Cracks or other damage to the connector.

CAUTION:

For removal and installation procedures of the seat position sensor, see pages INFO and INFO , and be sure to follow the correct procedure.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM00000181400BX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SEAT POSITION SENSOR: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. PRECAUTION

INFO

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

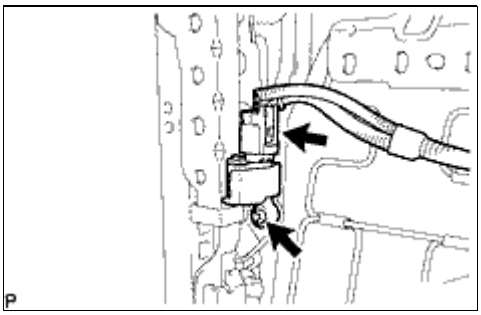
3. REMOVE FRONT SEAT ASSEMBLY LH

INFO

4. REMOVE SEAT POSITION AIRBAG SENSOR

(a) Disconnect the connector from the seat position airbag sensor.

(b) Using a T30 "TORX" socket wrench, remove the screw and seat position airbag sensor.

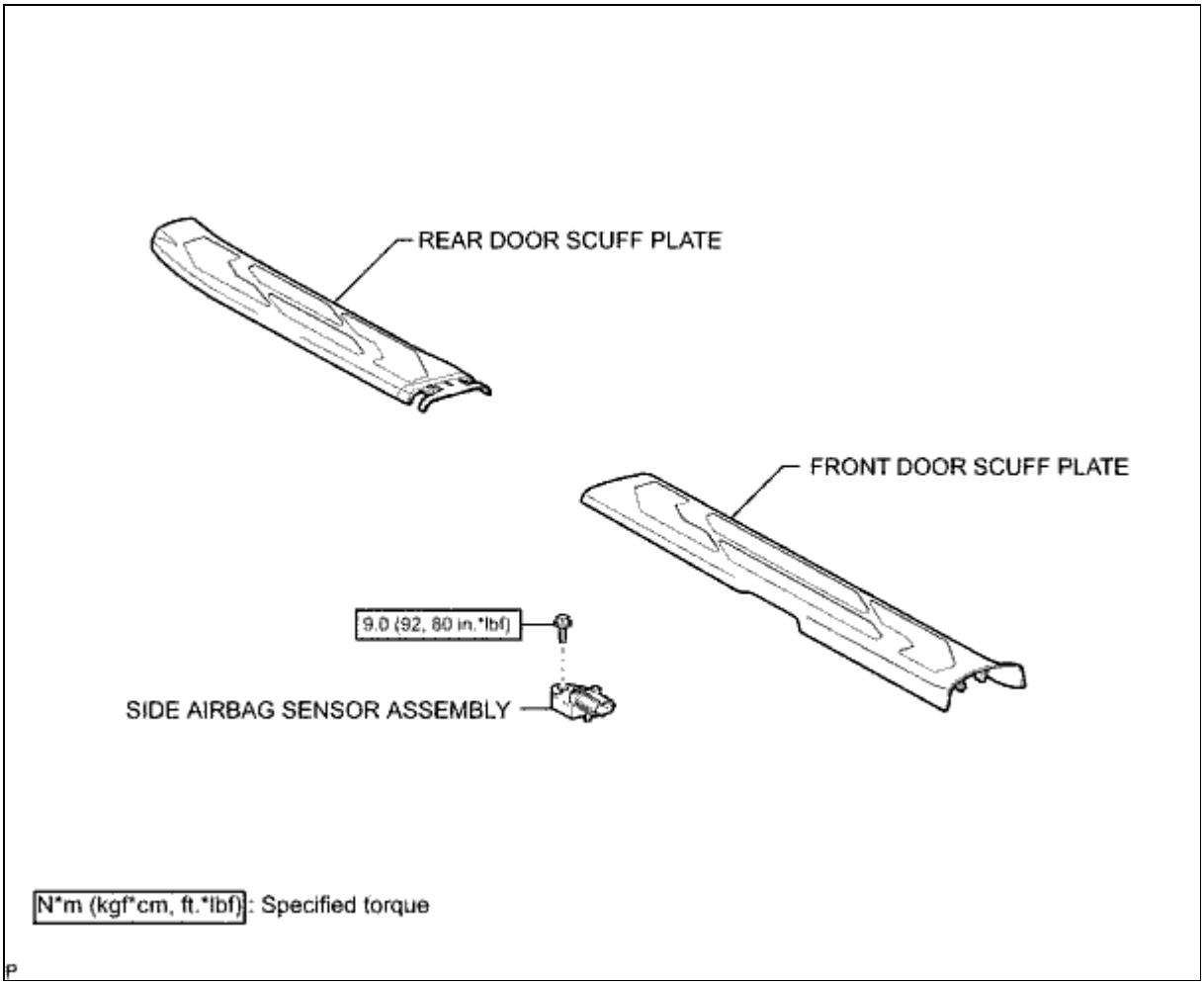


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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000000UWM0AWX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Access Cab): COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000001IB803HX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Access Cab): INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing INFO .

1. INSTALL SIDE AIRBAG SENSOR ASSEMBLY

(a) Confirm that the ignition switch is turned off.

(b) Confirm that the cable is disconnected from the battery negative (-) terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Install the side airbag sensor with the bolt.

Torque:

9.0 N·m {92 kgf·cm, 80in·lbf}

NOTICE:

- Do not use a side airbag sensor that has been dropped.
- Do not subject the side airbag sensor to any impact or force.

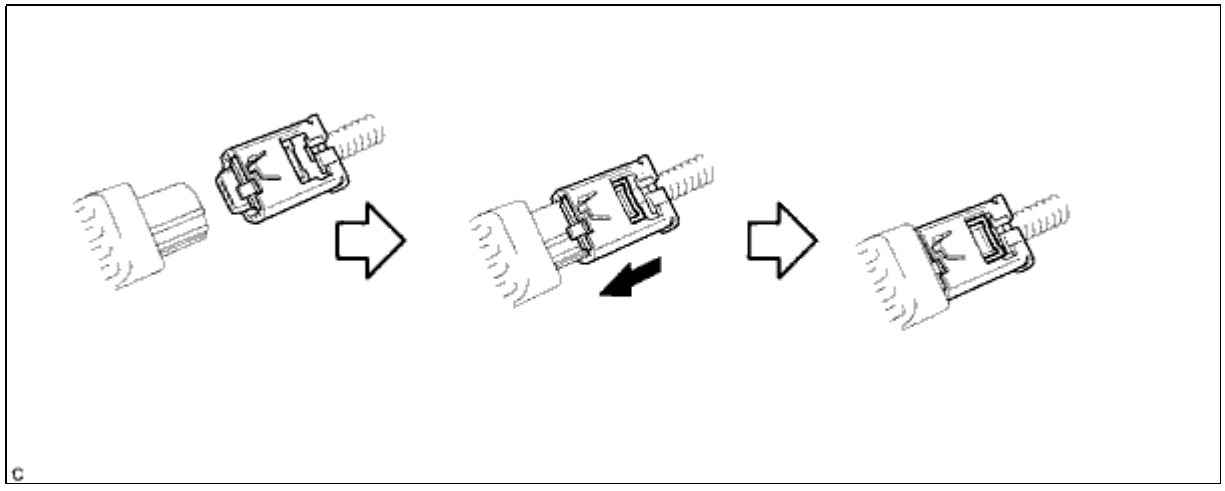
(d) Confirm that there is no looseness by shaking the side airbag sensor.

(e) Connect the connector to the side airbag sensor.

NOTICE:

When connecting any airbag connector, take care not to damage the airbag wire harness.

(1) Connect the connector as shown in the illustration (when locking, make sure that the outer connector locking sleeve returns to its original position and a click sound can be heard).



HINT:

When connected, the outer connector locking sleeve will slide. Be sure not to hold the outer connector locking sleeve while connecting, as it may result in an insecure fit.

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2. INSTALL REAR DOOR SCUFF PLATE INFO

3. INSTALL FRONT DOOR SCUFF PLATE INFO

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

5. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000001IB703HX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Access Cab): REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing INFO .

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

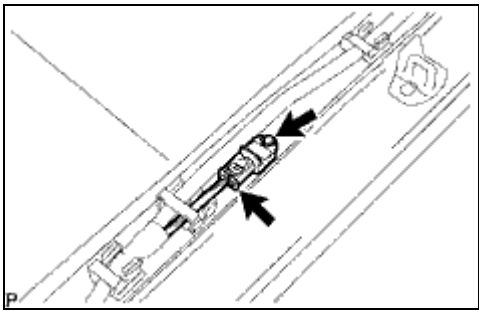
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

2. REMOVE FRONT DOOR SCUFF PLATE INFO

3. REMOVE REAR DOOR SCUFF PLATE INFO

4. REMOVE SIDE AIRBAG SENSOR ASSEMBLY

(a) Disconnect the connector from the side airbag sensor.

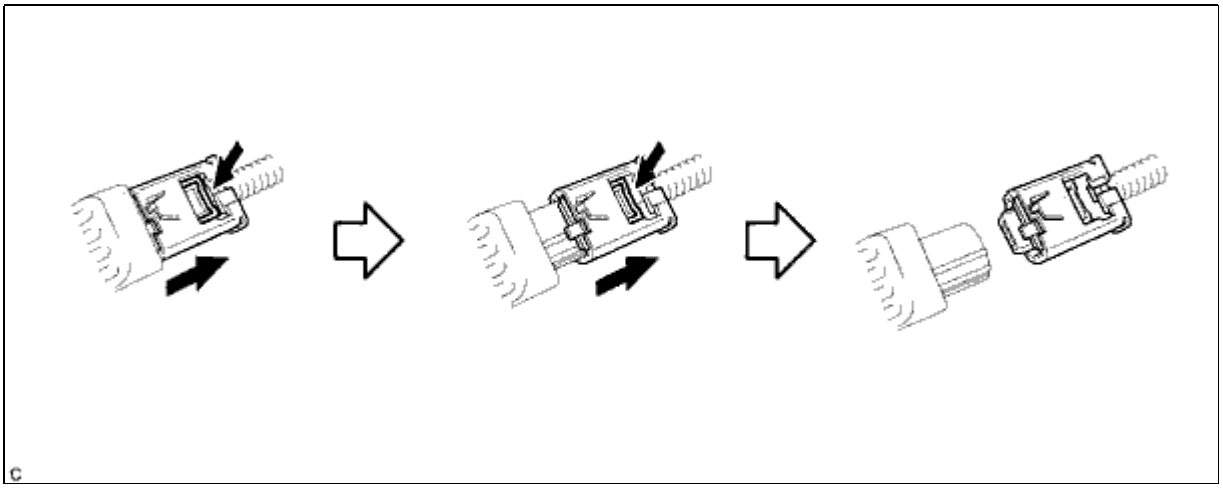


NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(1) Push and hold the white housing lock, and slide the yellow outer connector locking sleeve.

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(2) Push and hold the white housing lock again, and slide the yellow outer connector locking sleeve to disconnect the connector.

(b) Remove the bolt and side airbag sensor.

NOTICE:

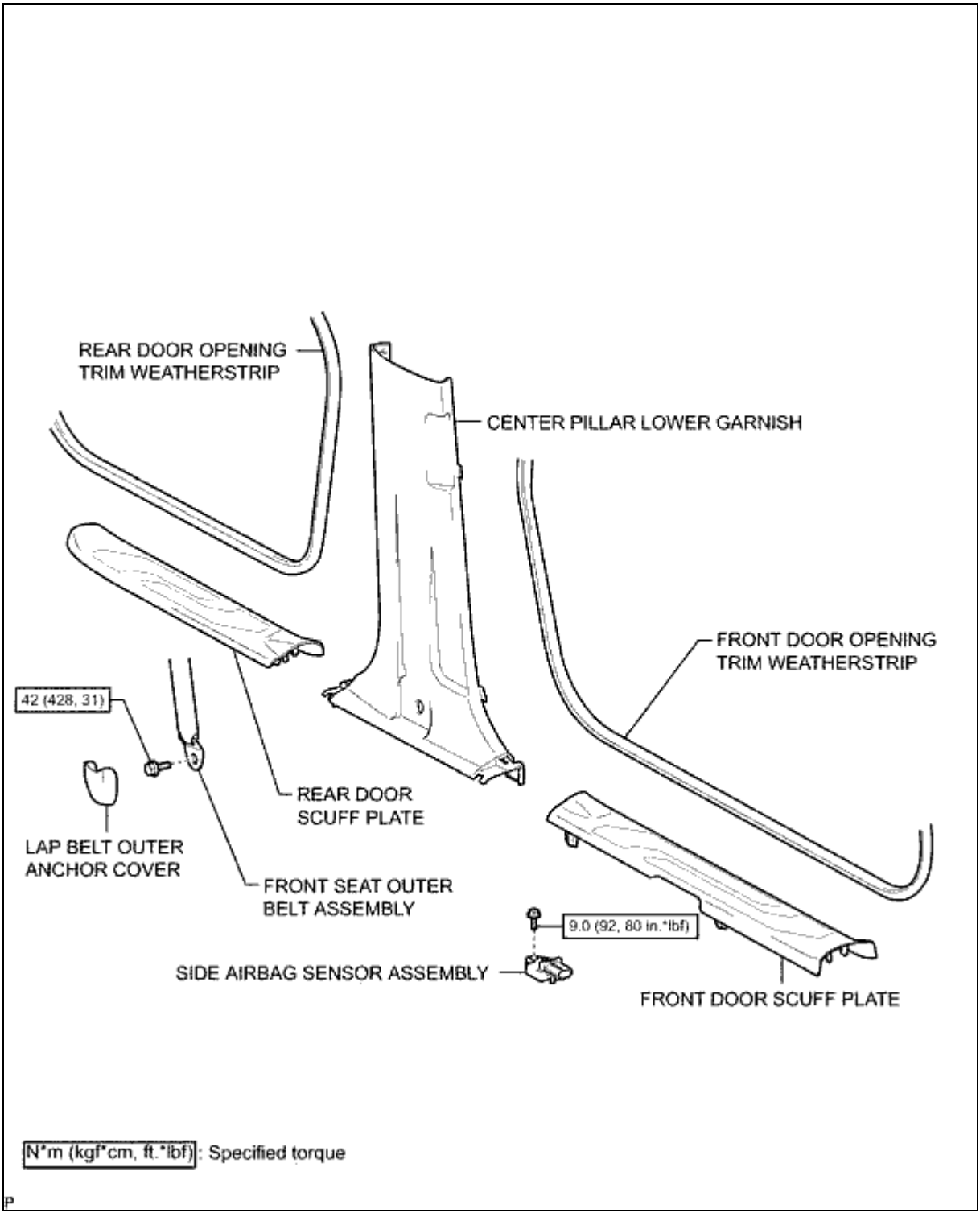
Loosen the bolt while holding the door side airbag sensor because the side airbag sensor pin (stopper) is easily damaged.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000000UWM0AXX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Double Cab): COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UWK0EEX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Double Cab): INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL SIDE AIRBAG SENSOR ASSEMBLY

(a) Check that the ignition switch is OFF.

(b) Check that the cable is disconnected from the battery negative (-) terminal.

CAUTION:

After disconnecting the cable from the terminal, wait for at least 90 seconds before starting the operation.

(c) Install the side airbag sensor with the bolt.

Torque:

-

9.0 N·m {92 kgf·cm, 80in·lbf}

NOTICE:

- Installation of the connector is done with the sensor assembly installed. Make sure that the sensor assembly is installed to the specified torque.
- If the sensor assembly has been dropped, or there are cracks, dents or other defects in the case, bracket or connector, replace the sensor assembly with a new one.
- When installing the sensor assembly, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.
- After installation, shake the sensor assembly to check that it is not loose.

(d) Check that there is no slack in the installation parts of the side airbag sensor.

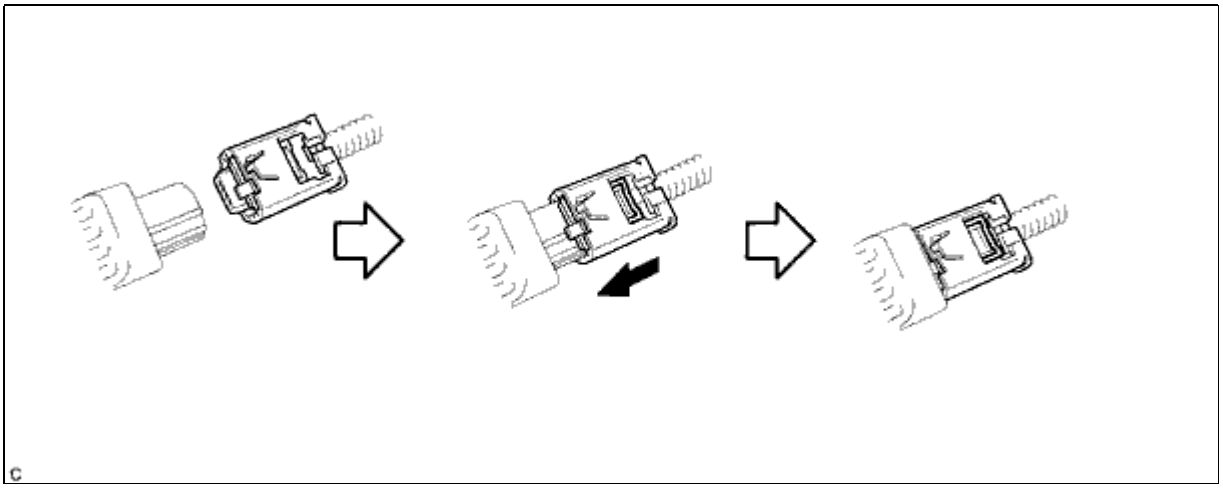
(e) Connect the connector to the side airbag sensor.

NOTICE:

When connecting any airbag connector, take care not to damage the airbag wire harness.

(1) Connect the connector as shown in the illustration (when locking, make sure that the outer connector locking sleeve returns to its original position and a click sound can be heard).

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HINT:

When connected, the outer connector locking sleeve will slide. Be sure not to hold the outer connector locking sleeve while connecting, as it may result in an insecure fit.

2. INSTALL CENTER PILLAR LOWER GARNISH INFO

3. INSTALL LAP BELT OUTER ANCHOR COVER INFO

4. CONNECT REAR DOOR OPENING TRIM WEATHERSTRIP INFO

5. CONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP INFO

6. INSTALL REAR DOOR SCUFF PLATE INFO

7. INSTALL FRONT DOOR SCUFF PLATE INFO

8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

9. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000000VPV0FQX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Double Cab): ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT SIDE AIRBAG SENSOR ASSEMBLY (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

2. INSPECT SIDE AIRBAG SENSOR ASSEMBLY (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .

(b) When the center pillar of the vehicle or its area is damaged, check if there is any damage to the side airbag sensor. If there are any defects as mentioned below, replace the side airbag sensor with a new one:

- Cracks, dents or chips on the sensor housing.
- Cracks or other damage to the connector.
- Peeling off of the label or damage to the serial number.

CAUTION:

For removal and installation procedures of the side airbag sensor. Be sure to follow the correct procedure.

3. INSPECT SIDE AIRBAG SENSOR ASSEMBLY (for Vehicle Involved in Collision)

(a) Replace the side airbag sensor.

CAUTION:

For removal and installation procedures of the side airbag sensor. Be sure to follow the correct procedure.

HINT:

The side airbag sensor on the impacted side should be replaced after the front seat airbag assembly and curtain shield airbag assembly have deployed.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000000UWN0E9X
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SIDE AIRBAG SENSOR (for Double Cab): REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. PRECAUTION

INFO .

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

3. REMOVE FRONT DOOR SCUFF PLATE INFO

4. REMOVE REAR DOOR SCUFF PLATE INFO

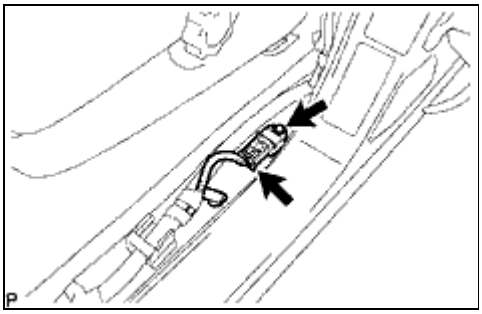
5. DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP INFO

6. DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP INFO

7. REMOVE LAP BELT OUTER ANCHOR COVER INFO

8. REMOVE CENTER PILLAR LOWER GARNISH INFO

9. REMOVE SIDE AIRBAG SENSOR ASSEMBLY



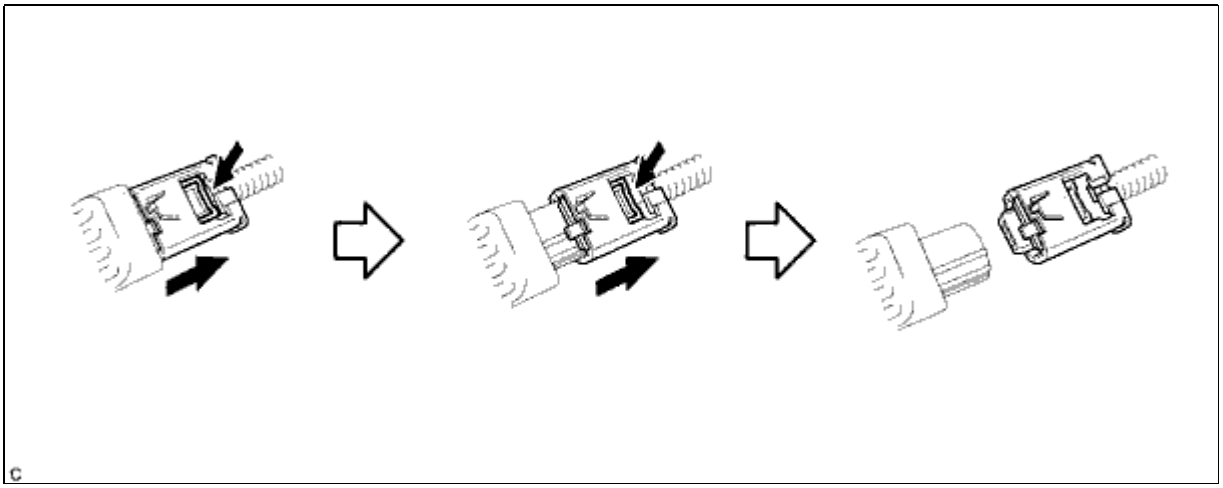
(a) Disconnect the connector from the side airbag sensor.

NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(1) Push and hold the white housing lock, and slide the yellow outer connector locking sleeve.

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(2) Push and hold the white housing lock again, and slide the yellow outer connector locking sleeve to disconnect the connector.

(b) Remove the bolt and side airbag sensor.

NOTICE:

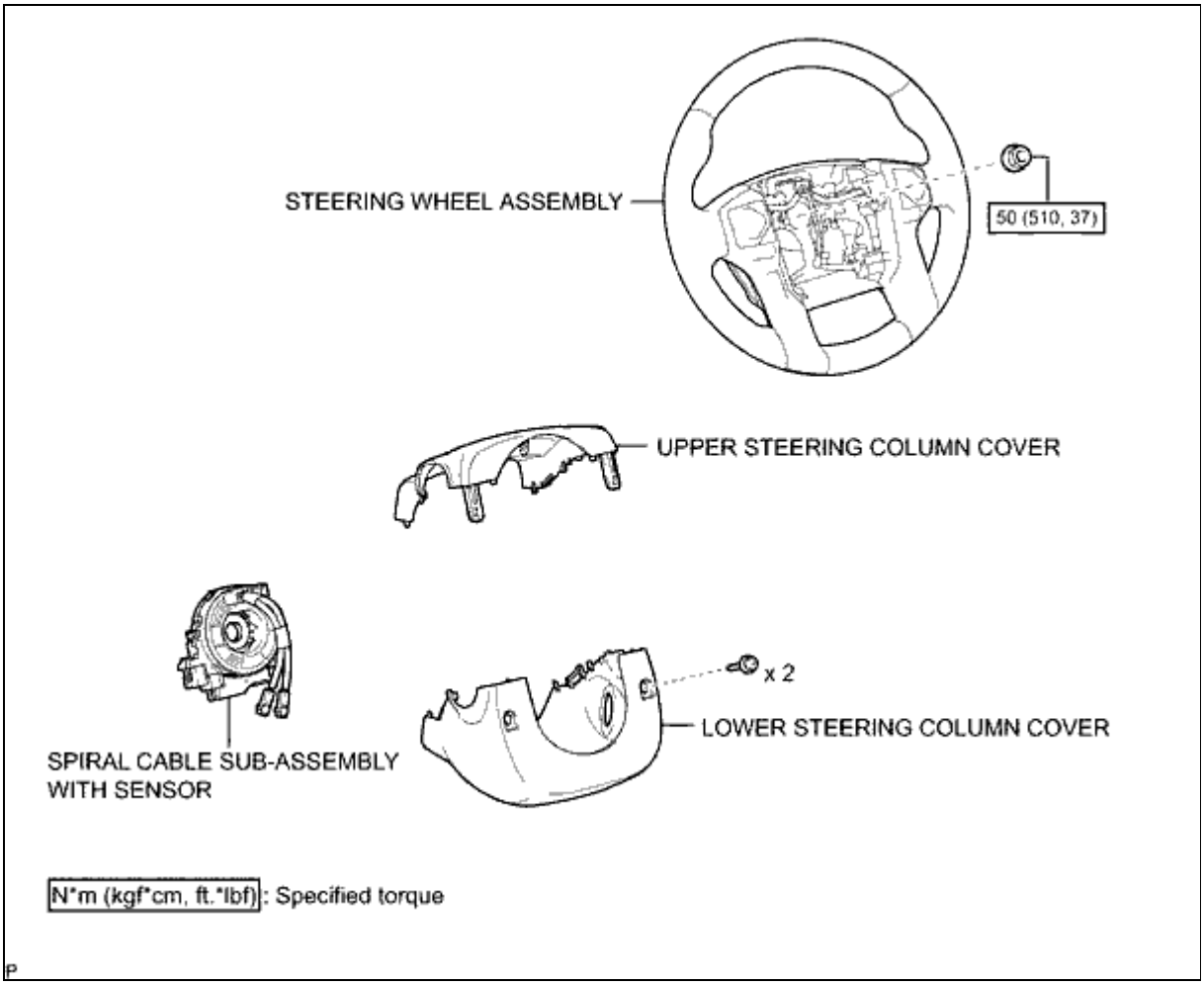
Loosen the bolt while holding the door side airbag sensor because the side airbag sensor pin (stopper) is easily damaged.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000002Y1T00LX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SPIRAL CABLE: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000002Z4W00CX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SPIRAL CABLE: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. REMOVE SPIRAL CABLE SUB-ASSEMBLY WITH SENSOR

(a) If there are any defects as mentioned below, replace the spiral cable sub-assembly with a new one:

Scratches, cracks, dents or chips on the connector or the spiral cable sub-assembly.

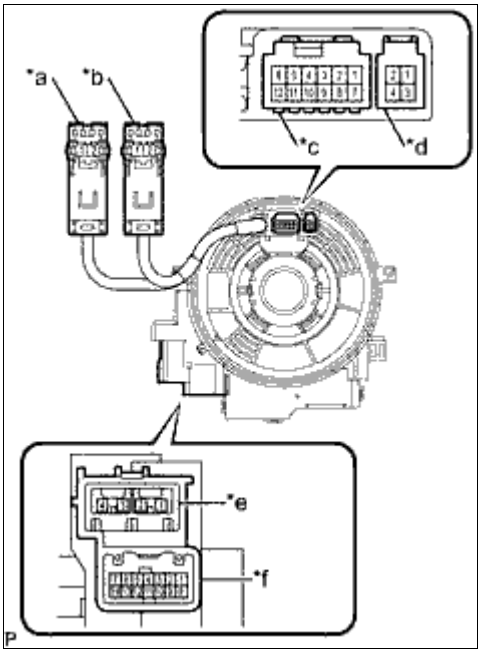
(b) Inspect the spiral cable sub-assembly.

(1) Set the spiral cable in the center, and measure the resistance in each position where the spiral cable is turned 2.5 times clockwise and counterclockwise.

(2) Turn the spiral cable 2.5 times clockwise from its original position and measure the resistance while turning it 5 times counterclockwise.

Text in Illustration

*a	Connector A (Orange)
*b	Connector B (Black)
*c	Connector C
*d	Connector D
*e	Connector E
*f	Connector F



Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A1 - E2	Always	Below 1 Ω
A2 - E1		
B1 - E3		
B2 - E4		
C1 - F9		
C2 - F10		
C3 - F11		
C4 - F12		
C5 - F13		
C6 - F14		
C7 - F2		
C8 - F3		

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C9 - F4		
C10 - F5		
C11 - F6		
C12 - F7		
D1 - F8		
D2 - F9		
D3 - F1		
D4 - F2		

NOTICE:

As the spiral cable sub-assembly may break, do not rotate the spiral cable sub-assembly more than the specified amount.

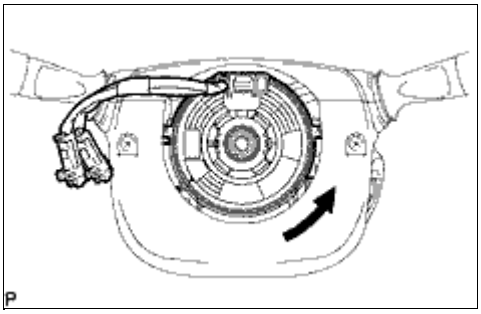
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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002Y1S00QX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SPIRAL CABLE: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL SPIRAL CABLE SUB-ASSEMBLY WITH SENSOR

(a) Check that the ignition switch is OFF.



(b) Check that the battery negative (-) terminal is disconnected.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(c) Confirm that the front tires face straight forward.

(d) Engage the 3 claws and install the spiral cable sub-assembly with steering sensor.

NOTICE:

When replacing the spiral cable sub-assembly with a new one, remove the lock pin before installing the steering wheel.

(e) Connect the connectors to the spiral cable sub-assembly with sensor.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

2. INSTALL UPPER STEERING COLUMN COVER INFO

3. INSTALL LOWER STEERING COLUMN COVER INFO

4. ADJUST SPIRAL CABLE

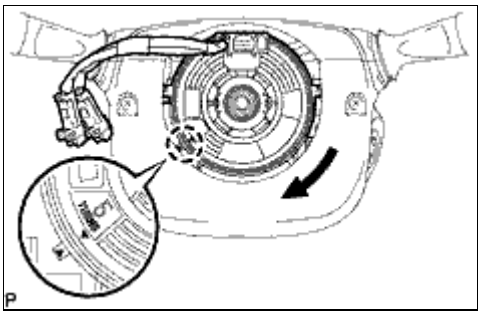
(a) Rotate the spiral cable sub-assembly with sensor counterclockwise slowly by hand until it feels firm.

NOTICE:

Do not turn the spiral cable sub-assembly with sensor by the airbag wire harness.

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(b) Rotate the spiral cable sub-assembly with sensor clockwise approximately 2.5 turns to align the marks.



NOTICE:

Do not turn the spiral cable sub-assembly with sensor by the airbag wire harness.

HINT:

The spiral cable sub-assembly with sensor will rotate approximately 2.5 turns to both the left and right from the center.

5. INSTALL STEERING WHEEL ASSEMBLY INFO

6. INSPECT STEERING PAD

INFO

7. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002Y1U00QX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: SPIRAL CABLE: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE STEERING PAD

INFO

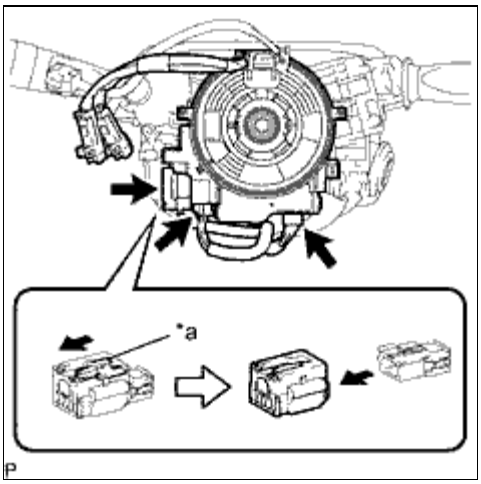
2. REMOVE STEERING WHEEL ASSEMBLY INFO

3. REMOVE LOWER STEERING COLUMN COVER INFO

4. REMOVE UPPER STEERING COLUMN COVER INFO

5. REMOVE SPIRAL CABLE SUB-ASSEMBLY WITH SENSOR

(a) Slide the slider and disconnect the airbag connector.



(b) Disconnect the 2 connectors from the spiral cable sub-assembly with sensor.

Text in Illustration

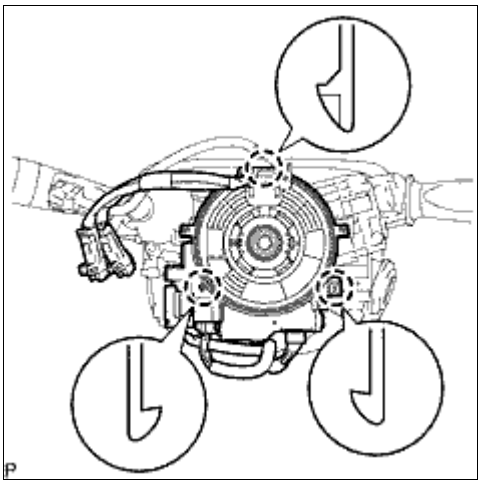
*a	Slider

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

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(c) Disengage the 3 claws to remove the spiral cable sub-assembly with sensor.



NOTICE:

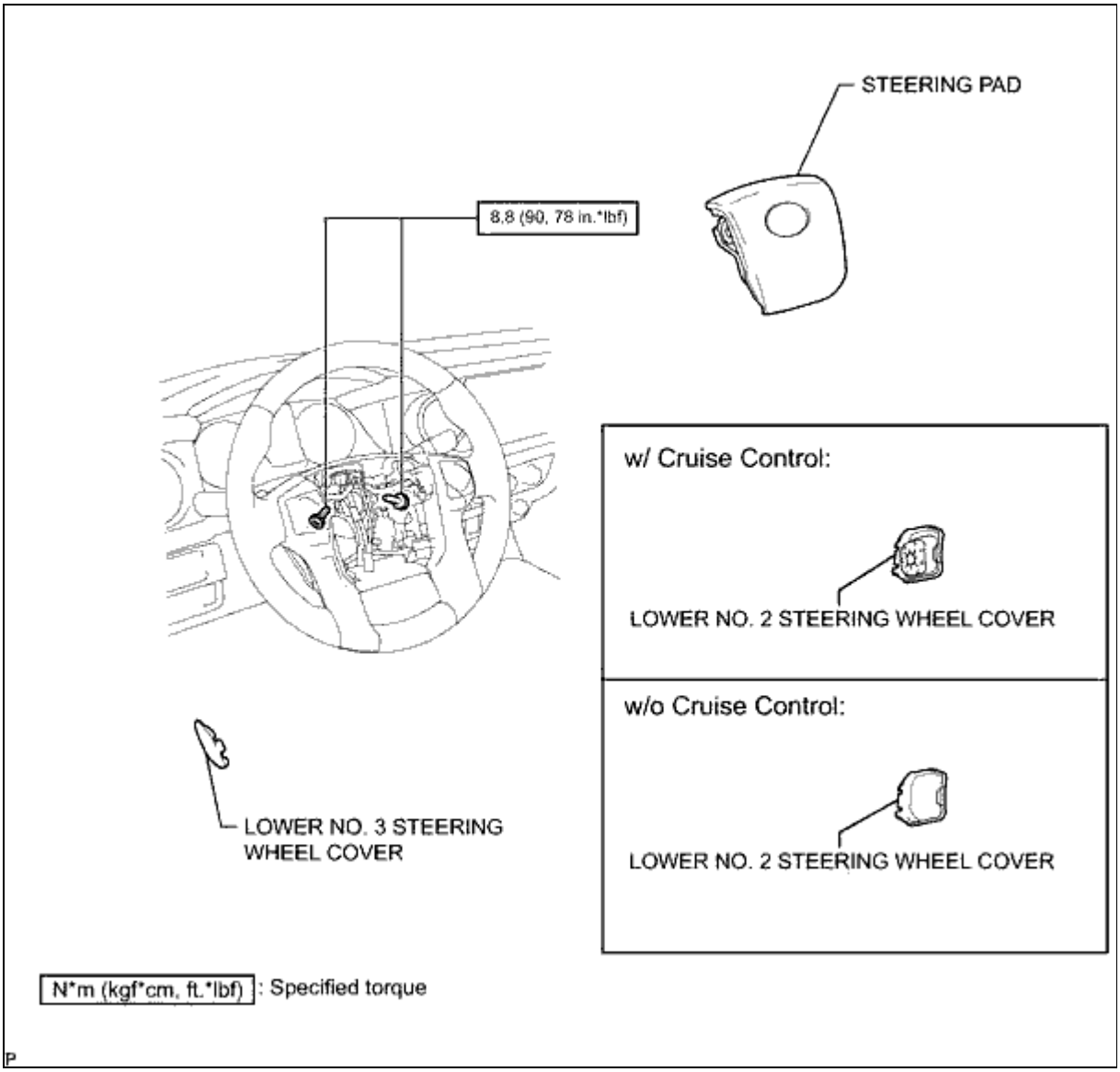
- Do not replace the spiral cable sub-assembly when the ignition switch is ON and battery cable is connected.
- Do not rotate the spiral cable sub-assembly when the ignition switch is ON and the battery cable is connected.
- Make sure the steering wheel is installed and centered before rotating the steering sensor when performing steering angle sensor operation inspections (inspecting for abnormal noise, diagnosis inspections, etc.).
- Do not remove the steering sensor from the spiral cable sub-assembly.

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Last Modified: 11-13-2015	6.6 K	**Doc ID:** RM000002Y1P00MX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: STEERING PAD: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Last Modified: 11-13-2015	6.6 N	**Doc ID:** RM000002Y1N00PX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: STEERING PAD: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

DISPOSAL

CAUTION:

Before performing pre-disposal deployment of any SRS part, review and closely follow all applicable environmental and hazardous material regulations. Pre-disposal deployment may be considered hazardous material treatment.

1. PRECAUTION

CAUTION:

- An airbag or pretensioner may be activated by static electricity. To prevent this, be sure to touch a metal surface with your bare hands to discharge static electricity before performing this procedure.
- Never dispose of a steering pad with an undeployed airbag.
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (32.8 ft.) away from the steering pad.
- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water etc. to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

When scrapping a vehicle equipped with the SRS or disposing of the steering pad, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

2. DISPOSE OF STEERING PAD (When Installed in Vehicle)

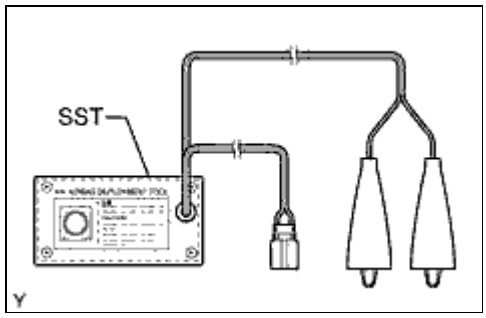
NOTICE:

- When disposing of the steering pad, never use the customer's vehicle to deploy the airbag.
- Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

(a) Check the function of SST.



SST: 09082-00700

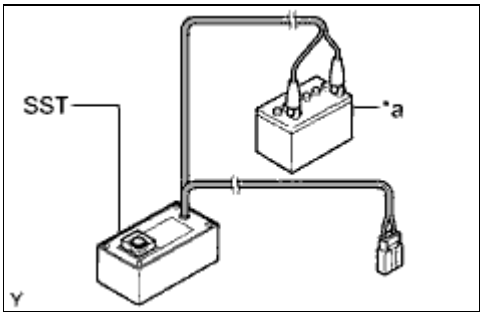
CAUTION:

Always use the specified SST (SRS Airbag Deployment Tool) when deploying the airbag.

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(1) Connect SST to the battery.

Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

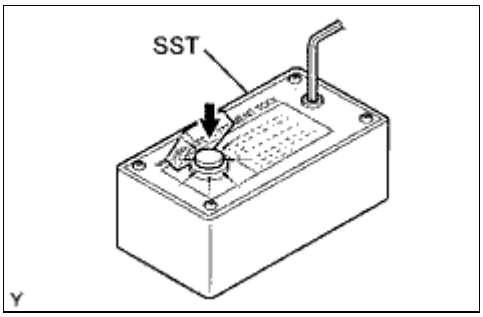


Text in Illustration

*a	Battery

(2) Check the function of SST.

Press the SST activation switch and check that the LED of the SST activation switch comes on.



CAUTION:

- Do not connect the yellow SST connector to the airbag.
- If the LED comes on when the activation switch is not being pressed, SST is malfunctioning. Replace SST.

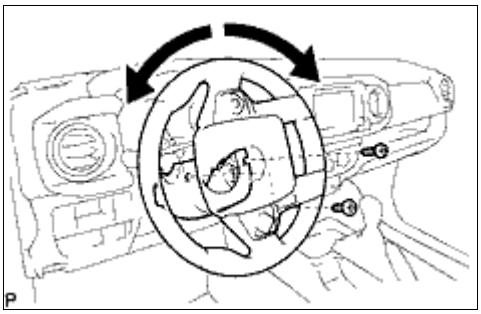
(3) Disconnect SST from the battery.

(b) Read the precaution INFO .

(c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.



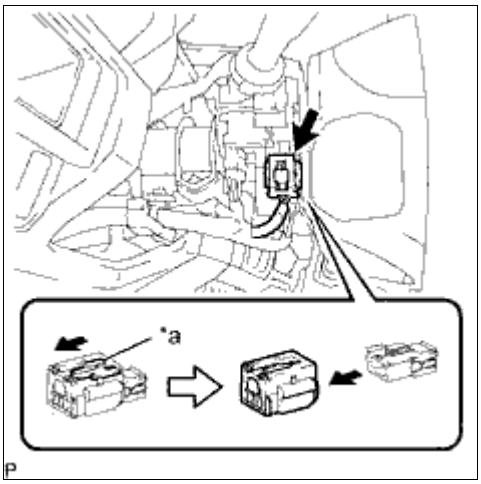
(d) Remove the lower steering column cover.

(1) While turning the steering wheel assembly to the right and left, remove the 2 screws and lower steering column cover.

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(e) Disconnect the yellow airbag connector from the spiral cable.

(1) Slide the slider to release the lock, and then disconnect the connector.



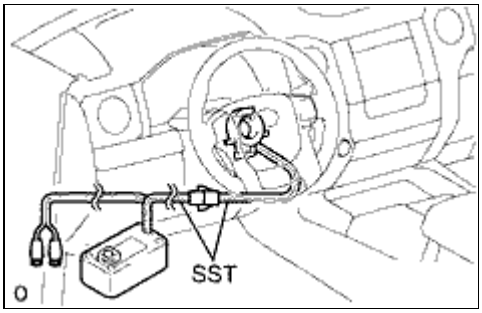
Text in Illustration

*a	Slider

NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(f) Install SST.



CAUTION:

Check that there is no looseness in the steering wheel assembly and steering pad.

(1) Connect the SST connector to the airbag connector of the spiral cable.

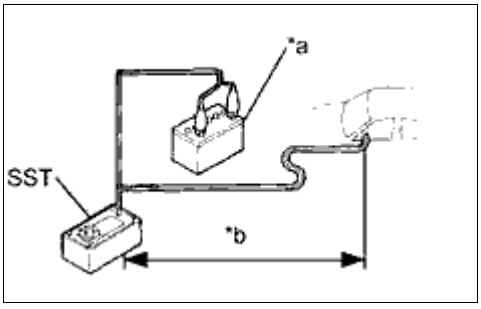
SST: 09082-00700

SST: 09082-00780

NOTICE:

To avoid damaging the SST connector or wire harness, do not lock the secondary lock of the twin lock.

(2) Move SST at least 10 m (32.8 ft.) away from the front side window of the vehicle.



Text in Illustration

*a	Battery
*b	10 m (32.8 ft.) or more

(3) While maintaining sufficient clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

(4) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.

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(g) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (32.8 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

CAUTION:

- Before deployment, make sure that no one is near the vehicle.
- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water etc. to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

3. DISPOSE OF STEERING PAD (When not Installed in Vehicle)

CAUTION:

Be sure to observe the following procedure when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

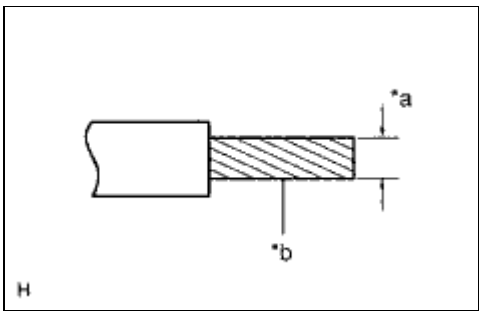
(a) Check the function of SST (See previous step).

(b) Remove the steering pad INFO .

CAUTION:

- Before removing the steering pad, wait at least 90 seconds after turning the ignition switch off and disconnecting the cable from the negative (-) battery terminal.
- When storing the steering pad, keep the airbag deployment side facing upward.

(c) Using a service-purpose wire harness for the vehicle, tie down the steering pad to an unneeded wheel.



Text in Illustration

*a	Wire Diameter
*b	Stripped Wire

Wire:

Cross-sectional area of stripped wire:

1.25 mm ^{2} (0.0019 in. ^{2}) or more

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the steering pad, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with a cross-sectional area of at least 1.25 mm ^{2} (0.0019 in. ^{2}).

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HINT:

To calculate the cross-sectional area of the stripped wire section:

Area = 3.14 x (Diameter) ^{2} / 4

(1) Install the 2 bolts with washers into the 2 bolt holes on the steering pad.

Bolt:

L

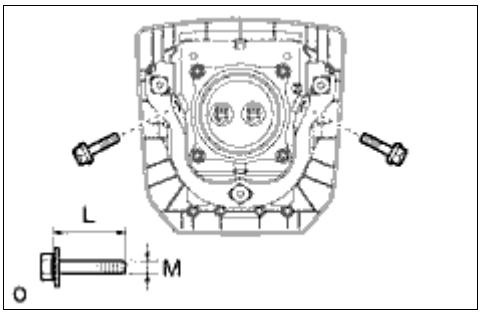
35.0 mm (1.38 in.)

M

6.0 mm (0.236 in.)

Pitch

1.0 mm (0.0393 in.)



NOTICE:

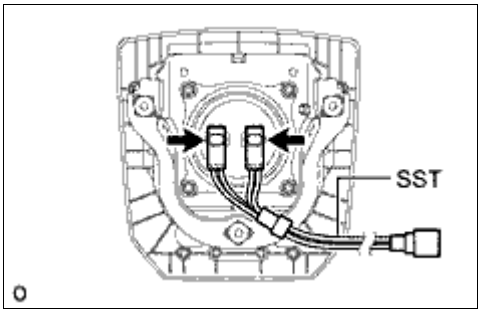
- Tighten the bolts by hand until they become difficult to turn.
- Do not tighten the bolts excessively.

(2) Connect SST to the steering pad at the locations indicated by the arrows in the illustration.

SST: 09082-00802

09082-10801

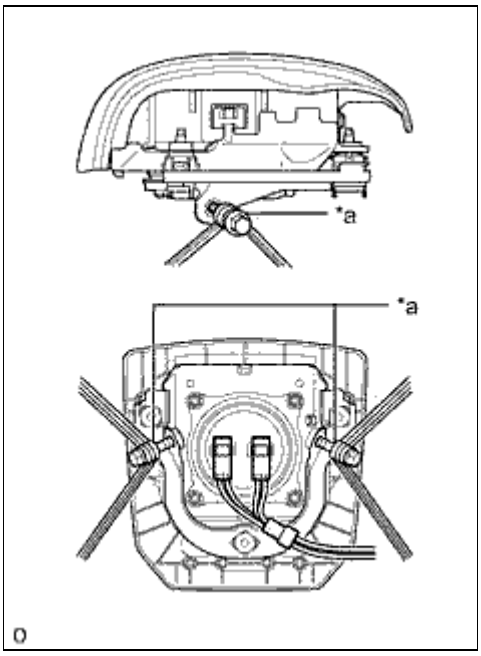
09082-30801



(3) Wind 3 wire harnesses at least 2 times each around the bolts installed on the left and right sides of the steering pad.

Text in Illustration

*a	2 times or more

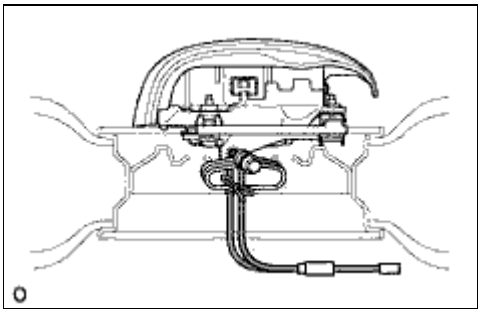


CAUTION:

- Tightly wind the wire harnesses around the bolts so that there is no slack.
- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the steering pad may become loose due to the shock when the airbag is deployed.

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(4) Face the airbag deployment side of the steering pad upward. Separately tie the left and right sides of the steering pad to a disc wheel through the hub nut holes. Position the SST connector so that it hangs downward through the hub hole of the disc wheel.



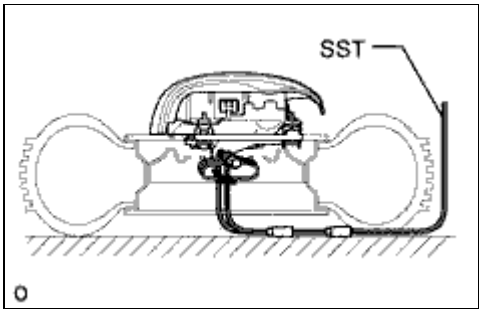
CAUTION:

- Make sure that the wire harnesses are tight. If there is slack in the wire harnesses, the steering pad may break loose when the airbag is deployed.
- Always tie down the steering pad with the airbag deployment side facing upward.

NOTICE:

The tire and disc wheel may be damaged by the airbag deployment, so use an unneeded tire and disc wheel.

(d) Install SST.



CAUTION:

Place the disc wheel on level ground.

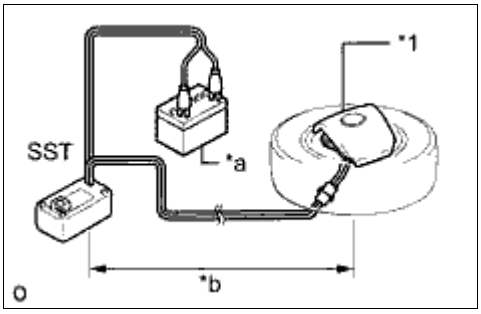
(1) Connect the SST connector.

SST: 09082-00700

NOTICE:

To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the disc wheel.

(2) Move SST at least 10 m (32.8 ft.) away from the steering pad tied down to the disc wheel.



Text in Illustration

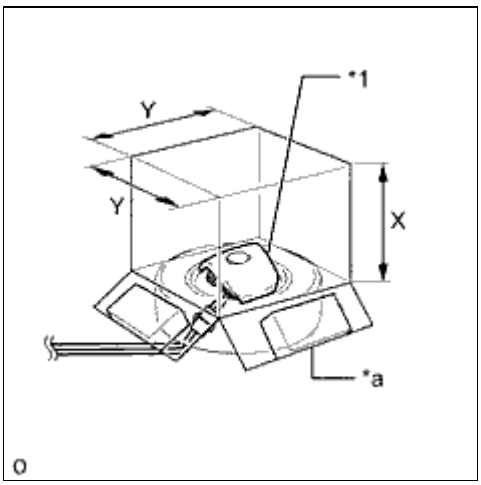
*1	Steering Pad
*a	Battery
*b	10 m (32.8 ft.) or more

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(e) Cover the steering pad (using a cardboard box).

Text in Illustration

*1	Steering Pad
*a	Weight



(1) Cover the steering pad with a cardboard box.

(2) Place weights on the cardboard box in 4 places totaling at least 190 N (19 kg, 42.7 lb).

Minimum cardboard box size:

Must exceed the following dimensions

X

460 mm (1.51 ft.)

Y

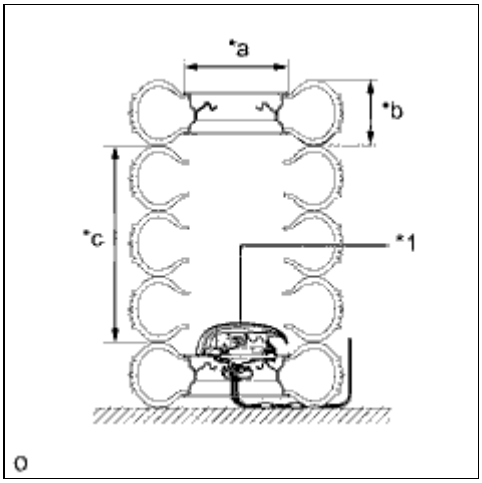
650 mm (2.13 ft.)

NOTICE:

- When dimension Y of the cardboard box exceeds the diameter of the disc wheel and tire to which the steering pad is tied, X should be the following size.

  X = 460 mm (1.51 ft.) + width of tire
- If a cardboard box smaller than the specified size is used, it may be broken by the shock from the airbag deployment.

(f) Cover the steering pad (using tires).



(1) Place at least 3 tires without disc wheels onto the disc wheel and tire to which the steering pad is tied.

Text in Illustration

*1	Steering Pad
*a	Inner Diameter
*b	Width
*c	Tires (3 or more)

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(2) Place a disc wheel and tire on top.

Minimum tire size:

Must exceed the following dimensions

Width

185 mm (7.28 in.)

Inner diameter

360 mm (1.18 ft.)

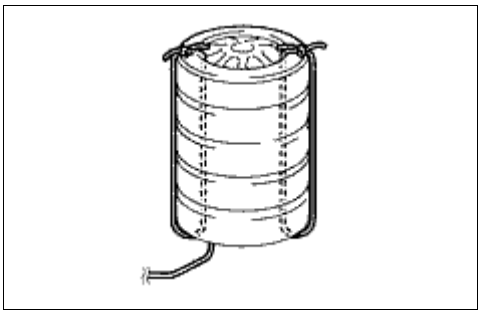
CAUTION:

Do not use tires with disc wheels except for on the top and bottom.

NOTICE:

- The tires and disc wheel may be damaged by the airbag deployment, so use unneeded tires and disc wheels.
- Do not place the SST connector under the tire because it could be damaged.

(3) Tie the tires together with the 2 wires.

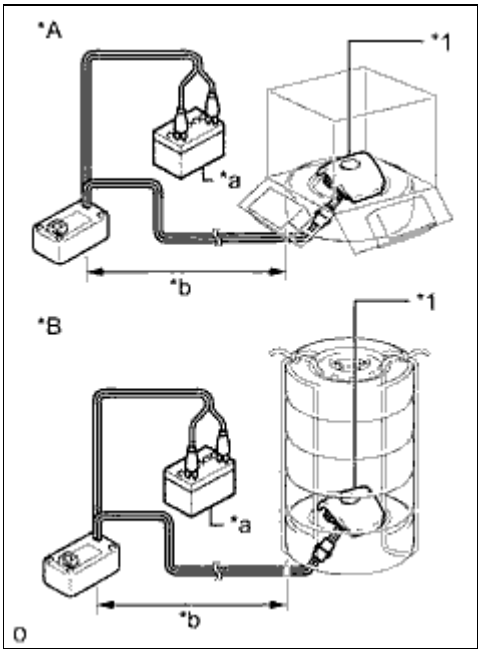


CAUTION:

Make sure that the wires are tight. Looseness in the wires results in the tires breaking loose when the airbag is deployed.

(g) Deploy the airbag.

(1) Connect the red clip of SST to the positive (+) battery terminal and the black clip of SST to the negative (-) battery terminal.



Text in Illustration

*A	Using a Cardboard Box
*B	Using Tires
*1	Steering Pad
*a	Battery
*b	10 m (32.8 ft.) or more

(2) Check that no one is within a 10 m (32.8 ft.) radius of the disc wheel to which the steering pad is tied.

(3) Press the SST activation switch and deploy the airbag.

CAUTION:

Before deployment, make sure that no one is near the airbag.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

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(h) Dispose of the steering pad.

CAUTION:

- The steering pad becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a steering pad with a deployed airbag.
- Do not apply water etc. to a steering pad with a deployed airbag.
- Always wash your hands with water after completing the operation.

(1) Remove the steering pad from the disc wheel.

(2) Dispose of steering pad, according to local regulations.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002Y1O00RX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: STEERING PAD: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL STEERING PAD

(a) Check that the ignition switch is off.

(b) Check that the cable is disconnected from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

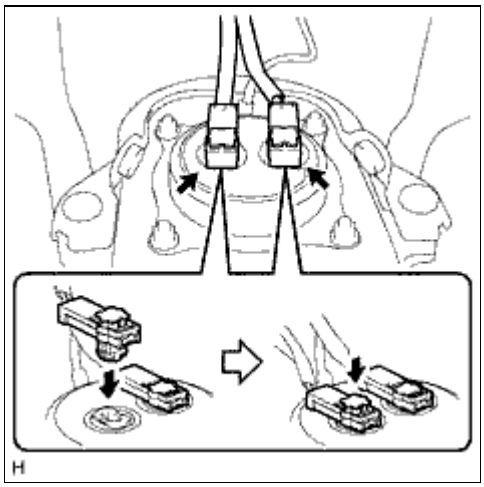
(c) Support the steering pad with one hand.

(d) Connect the horn terminal.

(e) Connect the 2 airbag connectors.

NOTICE:

When connecting any airbag connector, take care not to damage the airbag wire harness.



(f) Push in the 2 airbag connector locks to install the 2 airbag connectors.

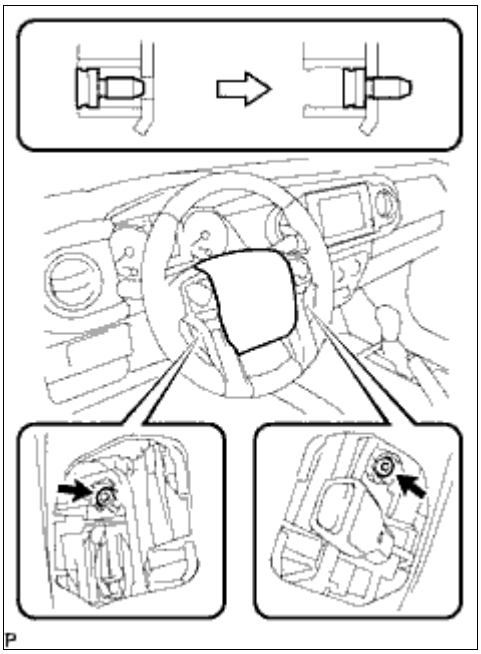
(g) Install the steering pad.

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(h) Using a T30 "TORX" socket wrench, tighten the 2 screws.

Torque:

8.8 N·m {90 kgf·cm, 78in·lbf}



P

2. INSTALL LOWER NO. 2 STEERING WHEEL COVER

(a) Engage the guide and claw to install the lower No. 2 steering wheel cover.

3. INSTALL LOWER NO. 3 STEERING WHEEL COVER

(a) w/ Cruise Control:

(1) Engage the guide and claw to install the lower No. 3 steering wheel cover.

(b) w/o Cruise Control:

(1) Engage the guide and claw to install the lower No. 3 steering wheel cover.

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

5. INSPECT STEERING PAD

(a) With the steering pad installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad with a new one:

Cuts, small cracks or marked discoloration on the steering pad top surface or in the grooved portion.

(b) Make sure that the horn sounds.

If the horn does not sound, inspect the horn system.

6. INSPECT SRS WARNING LIGHT

INFO

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Last Modified: 11-13-2015	6.6 G	**Doc ID:** RM000002Y1R00RX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: STEERING PAD: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. INSPECT STEERING PAD (for Vehicle not Involved in Collision)

(a) Perform a diagnostic system check INFO .

(b) With the steering pad installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad with a new one:

Cuts, minute cracks or marked discoloration on the steering pad top surface or in the grooved portion.

2. INSPECT STEERING PAD (for Vehicle Involved in Collision and Airbag has not Deployed)

(a) Perform a diagnostic system check INFO .

(b) With the steering pad removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the steering pad or steering wheel assembly with a new one:

- Cuts, small cracks or marked discoloration on the steering pad top surface or in the grooved portion.
- Cracks or other damage to the connectors.
- Deformation of the steering pad contact plate of the steering pad.
- Deformation of the steering wheel.
- There should be no interference between the steering pad and steering wheel assembly, and the clearance should be uniform all the way around when the new steering pad is installed on the steering wheel assembly.

CAUTION:

For removal and installation procedures of the steering pad, be sure to follow the correct procedure.

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Last Modified: 11-13-2015	6.6 A	**Doc ID:** RM000002Y1Q00RX
Model Year Start: 2016	**Model:** Tacoma	**Prod Date Range:** [08/2015 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEM: STEERING PAD: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. PRECAUTION

CAUTION:

Be sure to read Precaution thoroughly before servicing INFO .

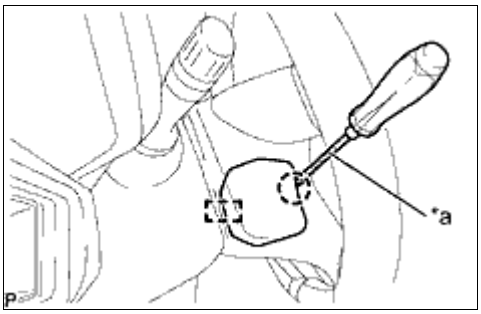
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

3. REMOVE LOWER NO. 3 STEERING WHEEL COVER

(a) Using a screwdriver with its tip wrapped in protective tape, disengage the claw and guide to remove the lower No. 3 steering wheel cover.

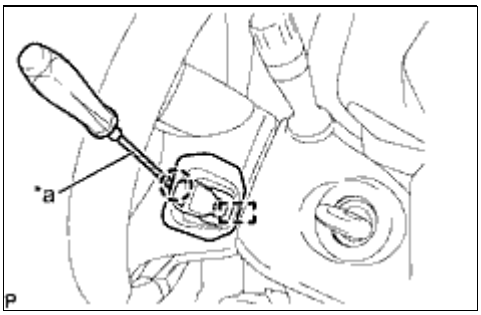


Text in Illustration

*a	Protective Tape

4. REMOVE LOWER NO. 2 STEERING WHEEL COVER

(a) w/ Cruise Control:

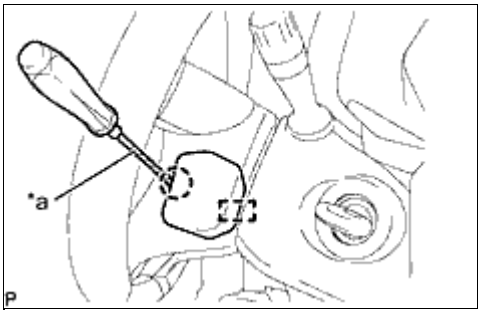


Text in Illustration

*a	Protective Tape

(1) Using a screwdriver with its tip wrapped in protective tape, disengage the claw and guide to remove the lower No. 2 steering wheel cover.

(b) w/o Cruise Control:



Text in Illustration

*a	Protective Tape

(1) Using a screwdriver with its tip wrapped in protective tape, disengage the claw and guide to remove the lower No. 2 steering wheel cover.

5. REMOVE STEERING PAD

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CAUTION:

When storing the steering pad, keep the airbag deployment side facing upward.

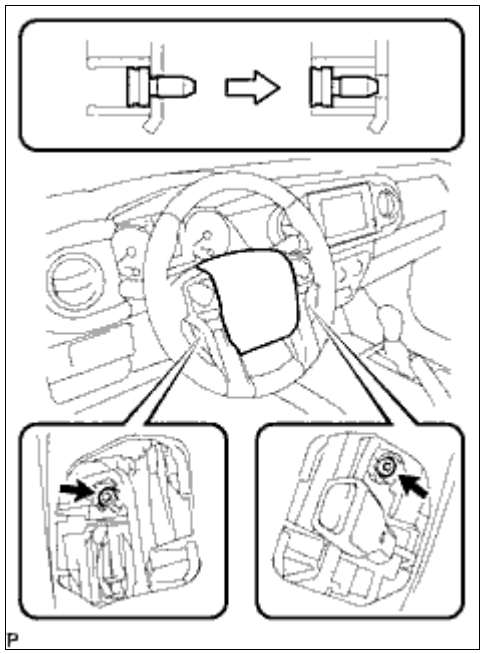
(a) Check that the ignition switch is off.

(b) Check that the cable is disconnected from the negative (-) battery terminal.

NOTICE:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

(c) Using a T30 "TORX" socket wrench, loosen the 2 screws until the groove along the screw circumference catches on the screw case.

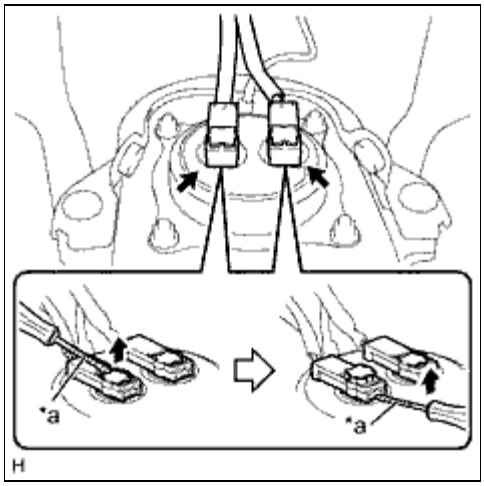


(d) Pull the steering pad toward you.

(e) Using a screwdriver with its tip wrapped in protective tape, release the 2 airbag connector locks.

Text in Illustration

*a	Protective Tape



(f) Disconnect the 2 airbag connectors.

NOTICE:

When disconnecting any airbag connector, take care not to damage the airbag wire harness.

(g) Disconnect the horn terminal to remove the steering pad.

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