DTC	**B1607/84**	**Lost Communication with Front Satellite Sensor Bus LH**

DTC	**B1608/84**	**Front Satellite Sensor Bus LH Initialization Incomplete**

DTC	**B1617/84**	**Lost Communication with Front Airbag Sensor LH**

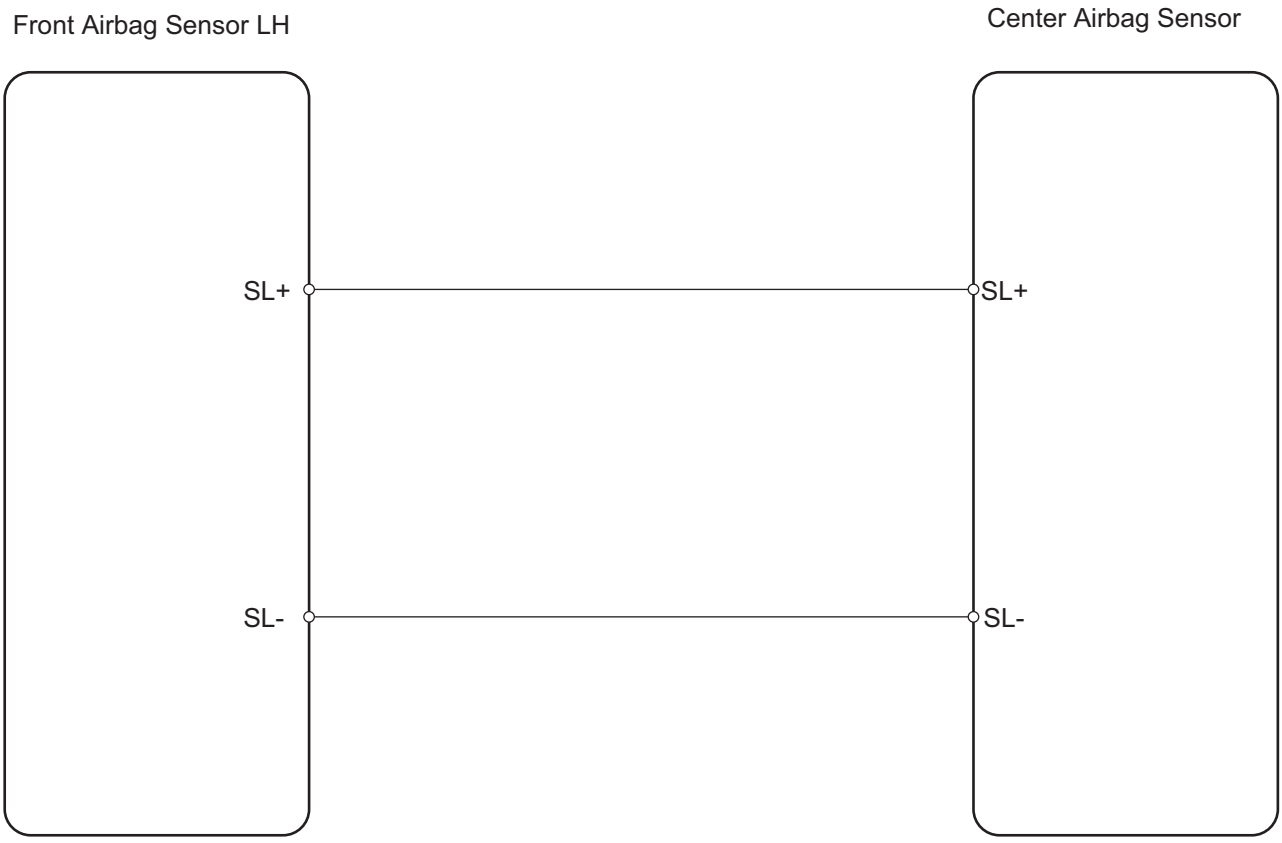
DTC	**B1618/84**	**Front Airbag Sensor LH Initialization Incomplete**

DESCRIPTION

The front airbag sensor LH consists of the diagnostic circuit and the frontal deceleration sensor.
If the center airbag sensor receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1607/84, B1608/84, B1617/84 or B1618/84 is recorded when a malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1607/84 B1608/84 B1617/84 B1618/84	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in the front airbag sensor LH circuit for 2 seconds. • Front airbag sensor LH malfunction • Center airbag sensor malfunction	• Instrument panel wire • Engine room main wire • Front airbag sensor LH • Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

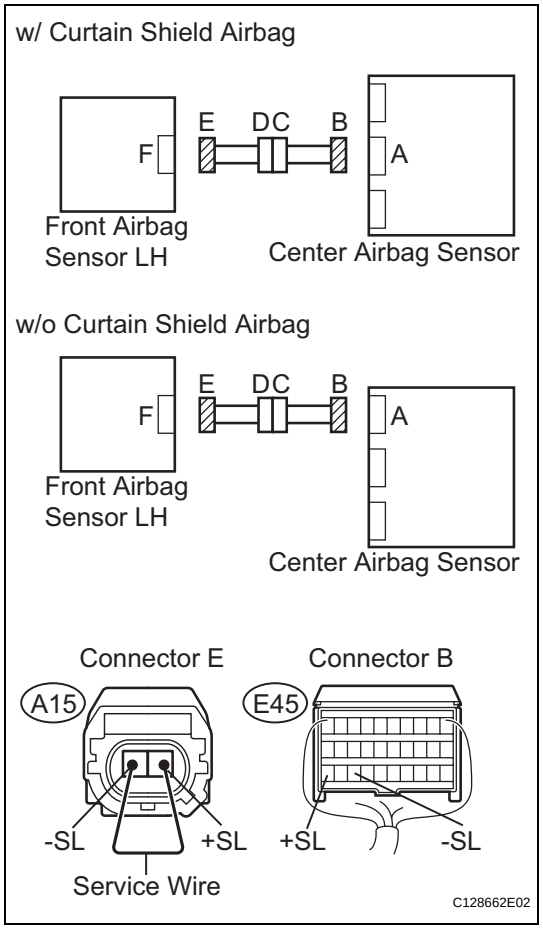
1	CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor and the front airbag sensor LH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

2 CHECK FRONT AIRBAG SENSOR LH CIRCUIT (OPEN)



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

(b) Using a service wire, connect A15-2 (+SL) and A15-1 (-SL) of connector E.

NOTICE:

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

(c) Measure the resistance of the wire harness side connector.

Standard resistance

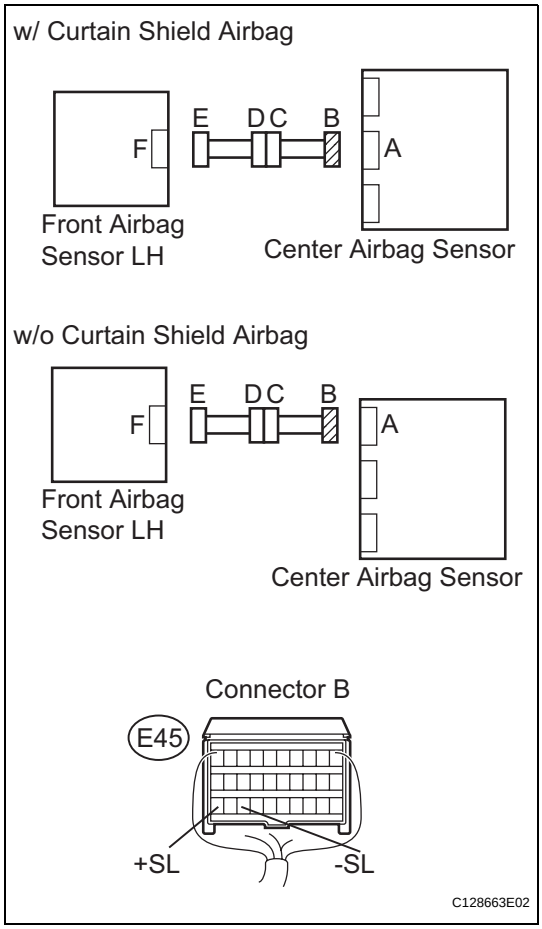
Tester Connection	Specified Condition
E45-30 (+SL) - E45-28 (-SL)	Below 1 Ω

NG → **Go to step 7**

OK

RS

3	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT)



(a) Disconnect the service wire from connector E.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

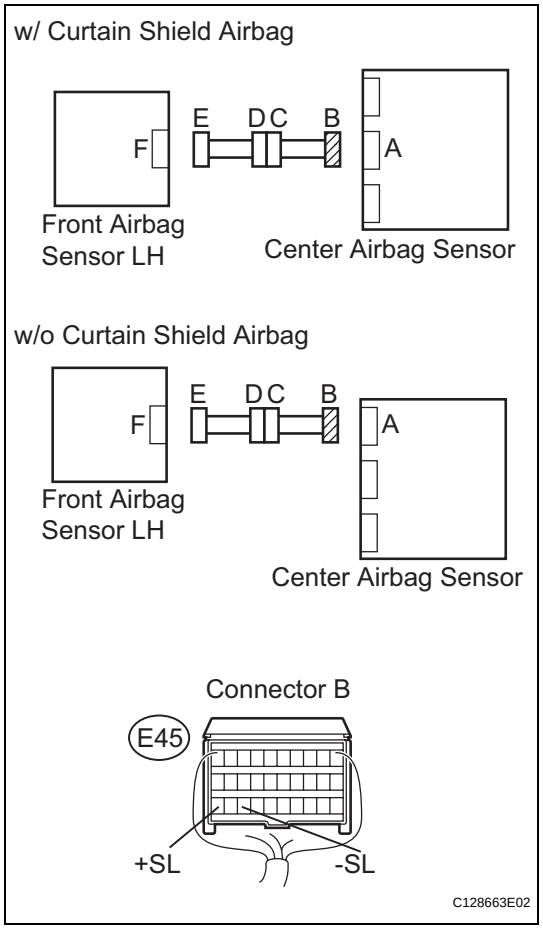
Tester Connection	Specified Condition
E45-30 (+SL) - E45-28 (-SL)	1 MΩ or higher

NG → **Go to step 8**

OK

RS

4	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connectors.

Standard voltage

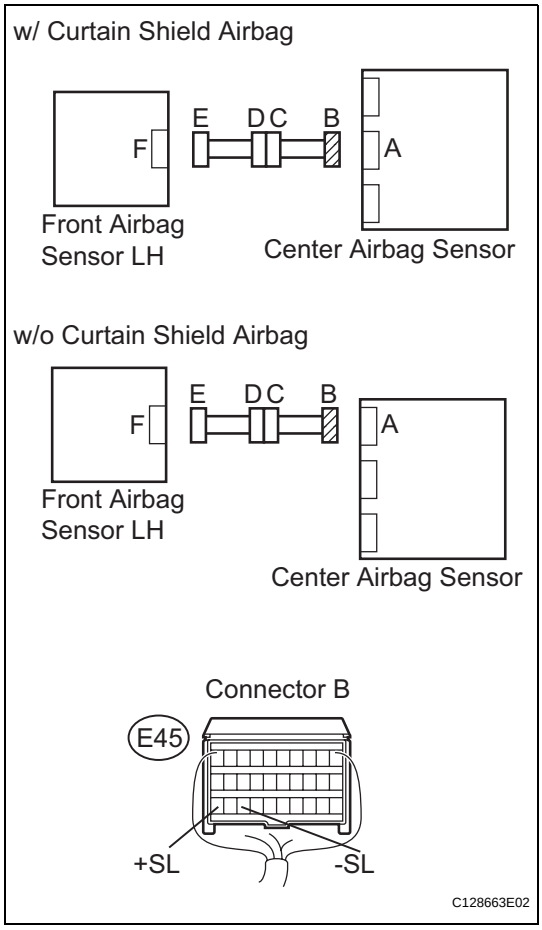
Tester Connection	Specified Condition
E45-30 (+SL) - Body ground	Below 1 V
E45-28 (-SL) - Body ground	Below 1 V

NG → **Go to step 9**

OK

RS

5	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.

Standard resistance

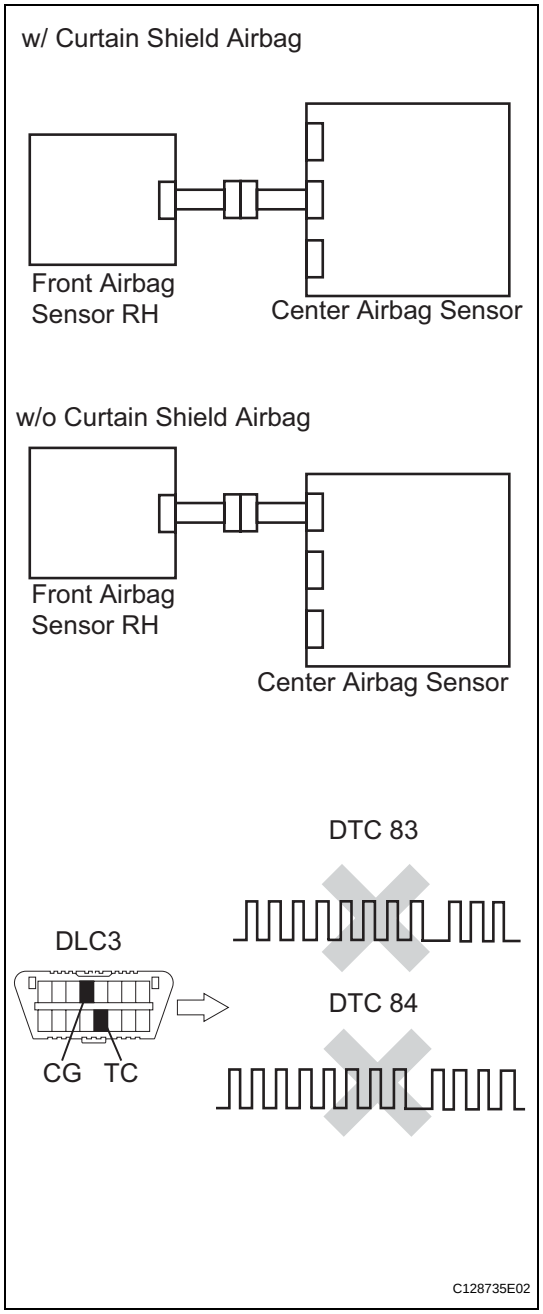
Tester Connection	Specified Condition
E45-30 (+SL) - Body ground	1 MΩ or higher
E45-28 (-SL) - Body ground	1 MΩ or higher

NG → **Go to step 10**

OK

RS

6 CHECK FRONT AIRBAG SENSOR LH



(a) Connect the connectors to the center airbag sensor.
(b) Interchange the front airbag sensor RH and LH, and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1602/83, B1603/83, B1612/83, B1613/83, B1607/84, B1608/84, B1617/84 and B1618/84 are not output.	A
DTC B1607/84, B1608/84, B1617/84 and B1618/84 are output	B
DTC B1602/83, B1603/83, B1612/83 and B1613/83 are output	C

HINT:
DTCs other than B1602/83, B1603/83, B1612/83, B1613/83, B1607/84, B1608/84, B1617/84 and B1618/84 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

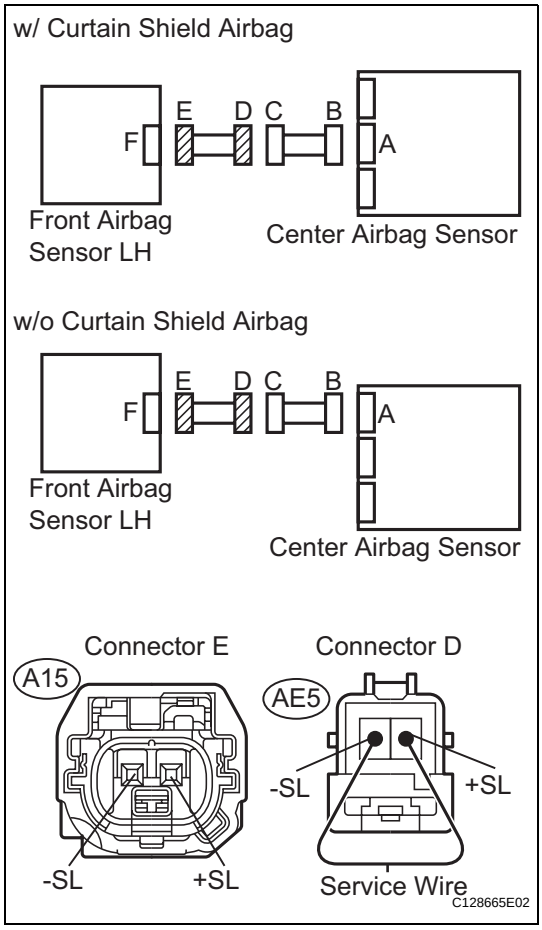
C → **REPLACE FRONT AIRBAG SENSOR LH**

RS

A

USE SIMULATION METHOD TO CHECK

7	CHECK ENGINE ROOM MAIN WIRE (OPEN)



(a) Disconnect the service wire from connector E.
(b) Disconnect the engine room main wire connector from the instrument panel wire.
(c) Using a service wire, connect AE5-1 (+SL) and AE5-2 (-SL) of connector D.
NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(d) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
A15-2 (+SL) - A15-1 (-SL)	Below 1 Ω

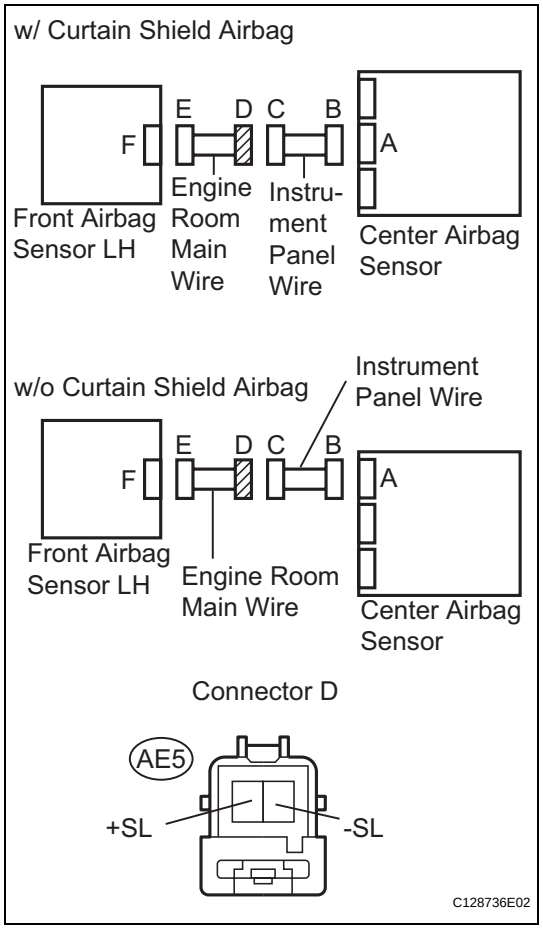
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

8	CHECK ENGINE ROOM MAIN WIRE (SHORT)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
AE5-1 (+SL) - AE5-2 (-SL)	1 MΩ or higher

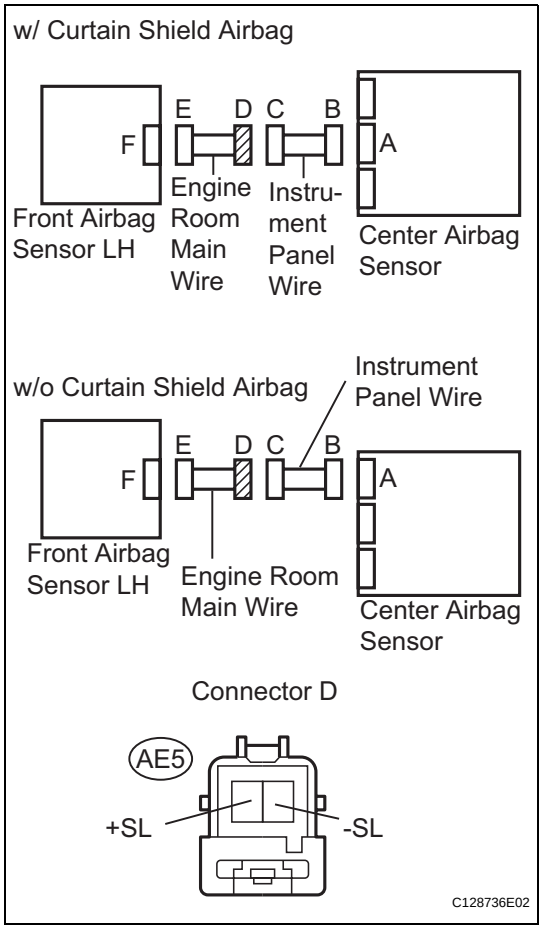
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

9	CHECK ENGINE ROOM MAIN WIRE (TO B+)



(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 engine room main wire connector from the instrument panel wire.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Measure the voltage of the wire harness side connector.
Standard voltage

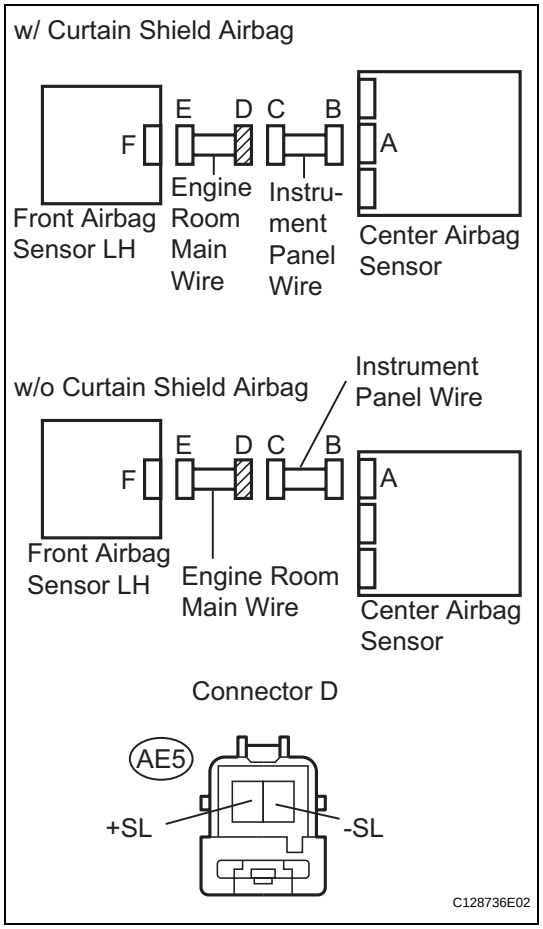
Tester Connection	Specified Condition
AE5-1 (+SL) - Body ground	Below 1 V
AE5-2 (-SL) - Body ground	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

10 CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
AE5-1 (+SL) - Body ground	1 MΩ or higher
AE5-2 (-SL) - Body ground	1 MΩ or higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS