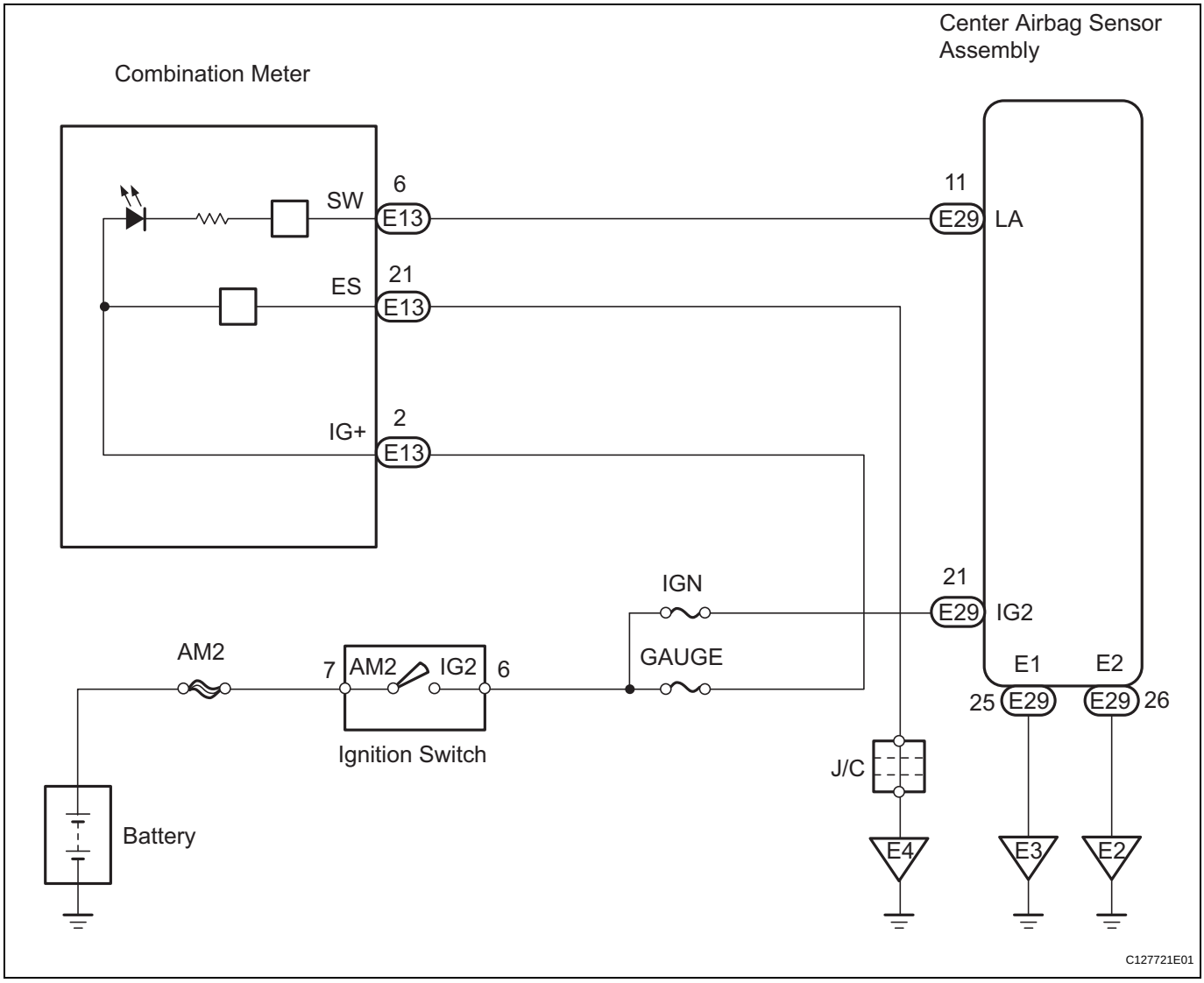
DTC	B1662/45	Indicator Light Circuit Malfunction

DESCRIPTION

The indicator light circuit consists of the center airbag sensor assembly and the combination meter. DTC B1662/45 is set when a malfunction is detected in the indicator light circuit.

DTC No.	DTC Detecting Conditions	Trouble Areas
B1662/45	• Center airbag sensor assembly detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in indicator light circuit for 2 seconds • Indicator light circuit malfunction • Center airbag sensor assembly malfunction	• Instrument panel wire • Combination meter • Center airbag sensor assembly

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

NOTICE:

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 center airbag sensor assembly connector is necessary.

1. Turn the ignition switch to the lock position.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connector from the center airbag sensor assembly.
4. Disconnect the connectors from the steering pad.
5. Disconnect the connectors from the front passenger airbag assembly.
6. Disconnect the connector from the front seat outer belt assembly LH.
7. Disconnect the connector from the front seat outer belt assembly RH.
   HINT:
   Skip the following steps if side and curtain shield airbags are not fitted.
8. Disconnect the connector from the front seat side airbag assembly LH.
9. Disconnect the connector from the front seat side airbag assembly RH.
10. Disconnect the connector from the curtain shield airbag assembly LH.
11. Disconnect the connector from the curtain shield airbag assembly RH.

1	CHECK DTC (AIRBAG SYSTEM)

RS

(a) Turn the ignition switch to the on position.
(b) Clear the DTCs stored in the memory (See page RS-36).
(c) Turn the ignition switch to the lock position.
(d) Turn the ignition switch to the on position and wait for at least 60 seconds.
(e) Check the DTCs (See page RS-36).
OK:
DTC B1662/45 is not output.
HINT:
DTCs other than B1662/45 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTOR (INSTRUMENT PANEL WIRE - CENTER 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) Check the instrument panel wire connector and terminals (on the center airbag sensor assembly side) and check that the connector is properly connected to the center airbag sensor assembly.

Result

Result	Proceed to
No problem.	A
Connector and terminals incorrect.	B
Connector connected improperly.	C

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

C → **CONNECT CONNECTOR PROPERLY**

A

3	CHECK CONNECTOR (INSTRUMENT PANEL WIRE - COMBINATION METER)

(a) Check the instrument panel wire connector and terminals (on the combination meter side) and check that the connector is properly connected to the combination meter.

Result

Result	Proceed to
No problem.	A
Connector and terminals incorrect.	B
Connector connected improperly.	C

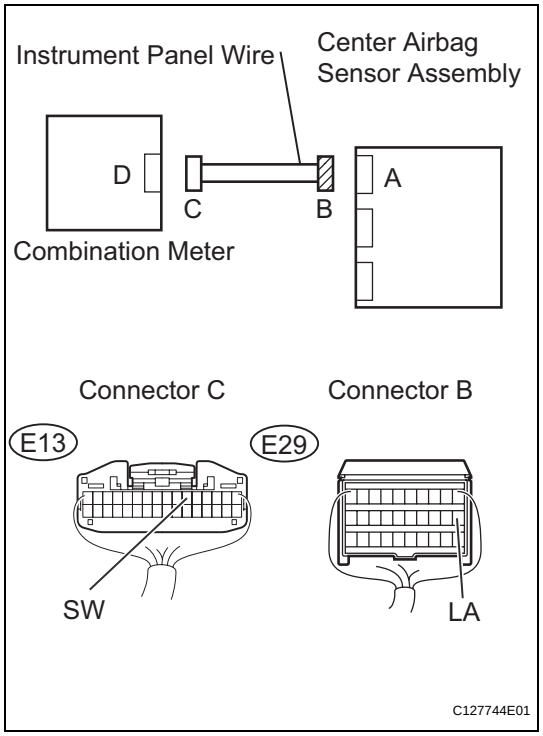
B → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

C → CONNECT CONNECTOR PROPERLY

RS

A

4	CHECK INSTRUMENT PANEL WIRE



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

(b) Check for short to B+ in the circuit.
  (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
  (2) Turn the ignition switch on.
  (3) Measure the voltage.
  Standard voltage

Tester Connection	Condition	Specified Condition
E13-6 (SW) - Body ground	Ignition switch on	Below 1 V

(c) Check for open in the circuit.
  (1) Turn the ignition switch off.
  (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
  (3) Measure the resistance.
  Standard resistance

Tester Connection	Condition	Specified Condition
E13-6 (SW) - E29-11 (LA)	Always	Below 1 Ω

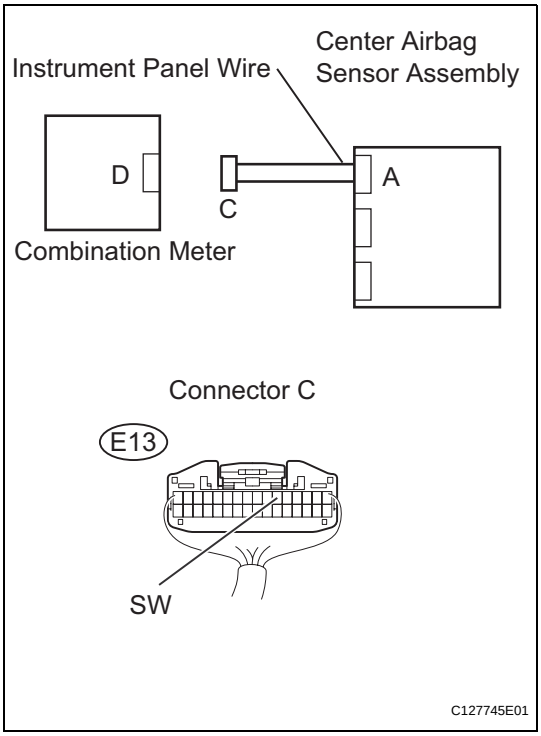
(d) Check for short to ground in the circuit.
  (1) Measure the resistance.
  Standard resistance

Tester Connection	Condition	Specified Condition
E13-6 (SW) - Body ground	Always	1 MΩ or higher

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

5 CHECK SRS WARNING LIGHT CIRCUIT



(a) Connect the instrument panel wire to the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Measure the voltage.

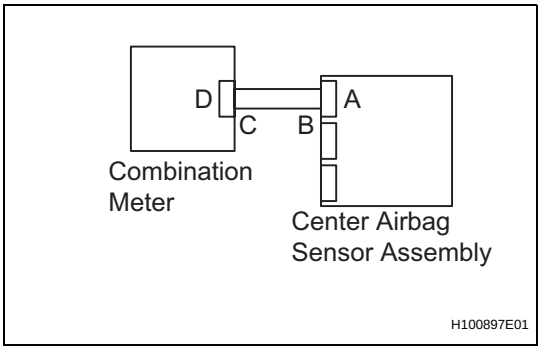
Standard voltage

Tester Connection	Condition	Specified Condition
E13-6 (SW) - Body ground	1. For 6 seconds after ignition switch turned on. 2. After 6 seconds have passed since ignition switch turned on.	1. Below 1 V 2. 8 to 16 V

OK → GO TO METER / GAUGE SYSTEM

NG

6 CHECK CENTER 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 center airbag sensor assembly (See page RS-390).
HINT:
Perform the inspection using parts from a normal vehicle when possible.
(d) Connect the connectors to the center airbag sensor assembly and the combination meter.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the on position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in the memory (See page RS-36).
(h) Turn the ignition switch to the lock position.
(i) Turn the ignition switch to the on position, and wait for at least 60 seconds.
(j) Check for DTCs (See page RS-36).

OK:

DTC B1662/45 is not output.

HINT:

DTCs other than B1662/45 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END