

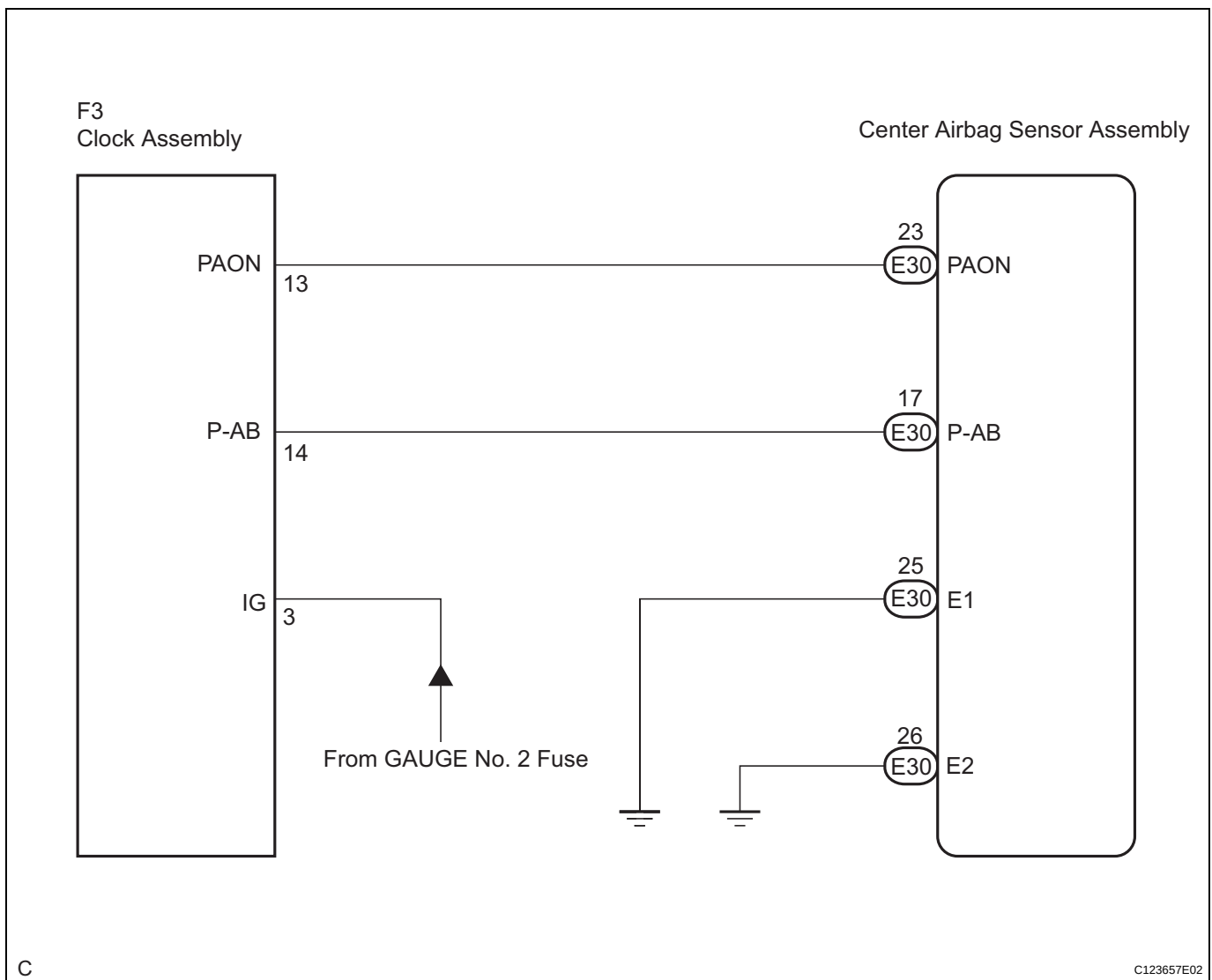
DTC**B1660/43****Passenger Airbag ON / OFF Indicator Circuit Malfunction****DESCRIPTION**

The passenger airbag ON/OFF indicator circuit consists of the center airbag sensor assembly and the clock assembly.

The passenger airbag ON/OFF indicator indicates the operation condition of the front passenger airbag assembly and the front seat side airbag assembly RH.

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

DTC No.	DTC Detecting Condition	Trouble Area
B1660/43	- The center airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the passenger airbag ON/OFF indicator circuit for 2 seconds. - Clock assembly malfunction - Center airbag sensor assembly malfunction	- Instrument panel wire - Instrument panel wire No. 2 - Clock assembly (Passenger airbag ON/OFF indicator) - Center airbag sensor assembly

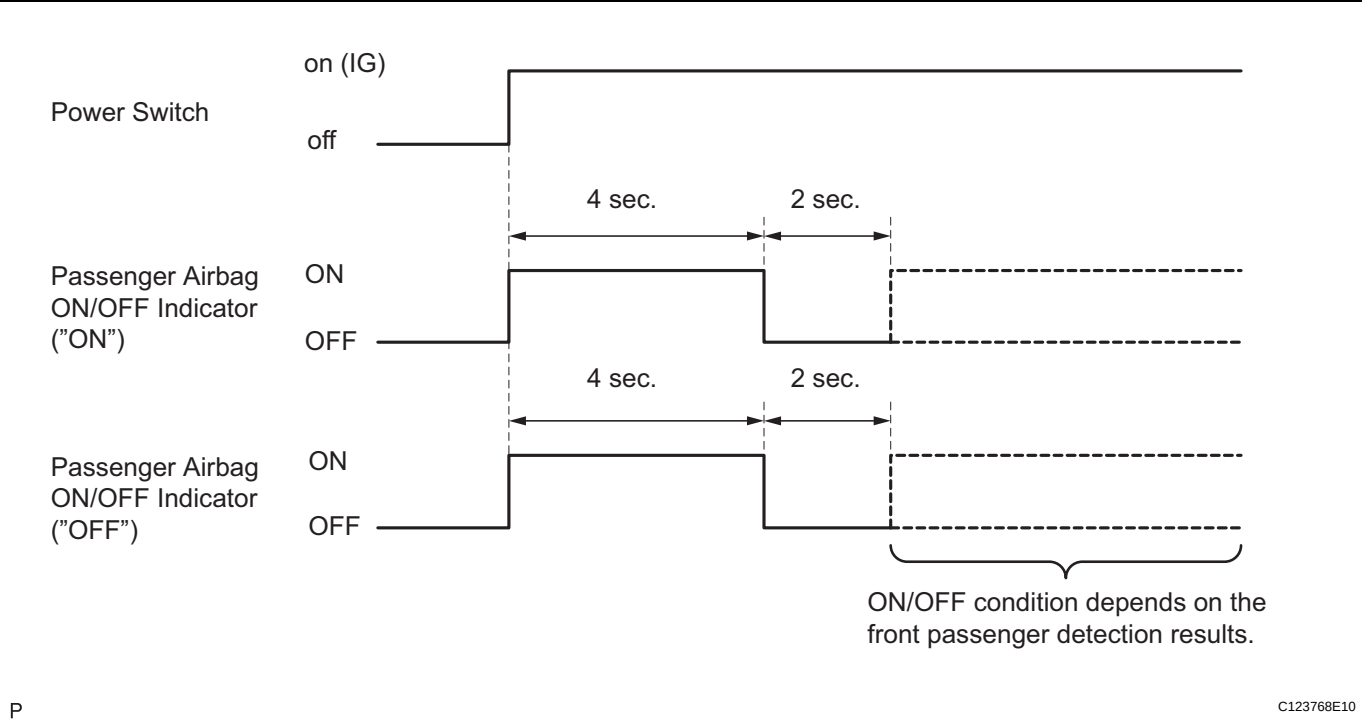
WIRING DIAGRAM

INSPECTION PROCEDURE

1

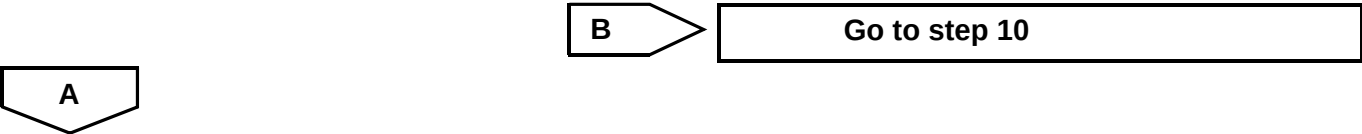
CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION

- (a) Turn the power switch on (IG).
- (b) Check the passenger airbag ON/OFF indicator operation.
- HINT:
Refer to the normal condition of the passenger airbag ON/OFF indicator (See page RS-33).



Result

ON/OFF Indicator Illumination	Proceed to
Always ON	A
OFF	B



2

CHECK CONNECTION OF CONNECTORS

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

NG

**CONNECT CONNECTORS PROPERLY, THEN
GO TO STEP 1**

OK

3**CHECK CONNECTORS**

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

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

4**CHECK PASSENGER AIRBAG ON/OFF INDICATOR**

- (a) Connect the connector to the clock assembly.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG).
- (d) Check the passenger airbag ON/OFF indicator operation.

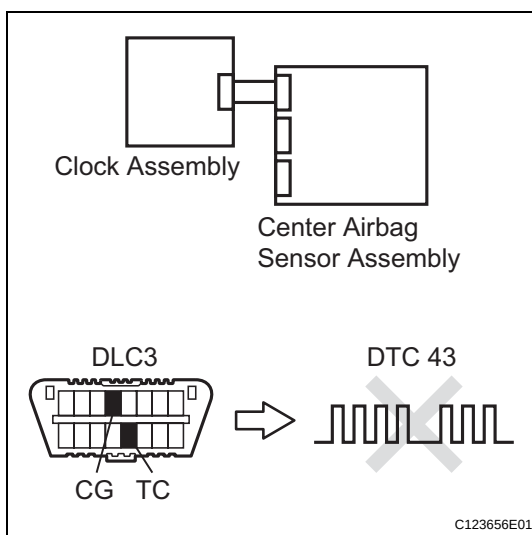
OK:

**The passenger airbag ON/OFF indicator does not
come on.**

NG

Go to step 6

OK

5**CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- (a) Connect the connector to the center airbag sensor assembly.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-41).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check for DTCs (See page RS-41).

OK:

DTC B1660/43 is not output.

HINT:

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

NG

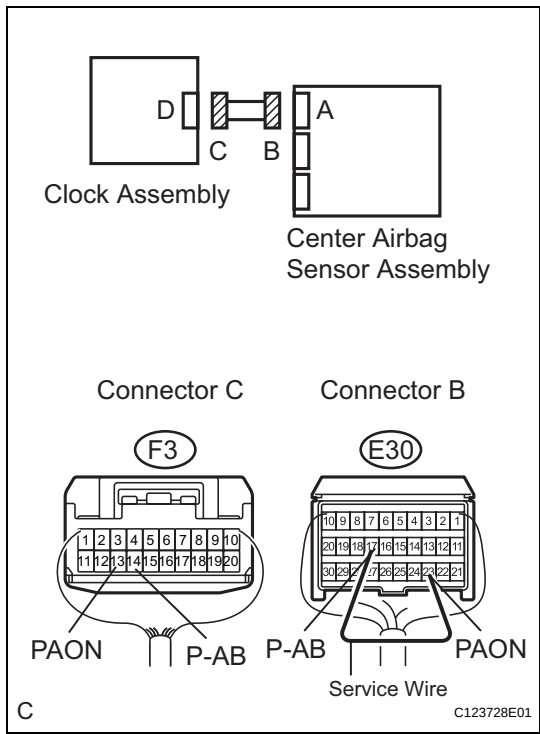
REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-423)

OK

USE SIMULATION METHOD TO CHECK (See page RS-33)

6

CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (OPEN)



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the clock assembly.
- (d) Using a service wire, connect terminals 23 (PAON) and 17 (P-AB) of connector B.
- (e) Measure the resistance according to the value(s) in the table below.

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

Standard resistance

Tester Connection	Condition	Specified Condition
F3-13 (PAON) - F3-14 (P-AB)	Always	Below 1 Ω

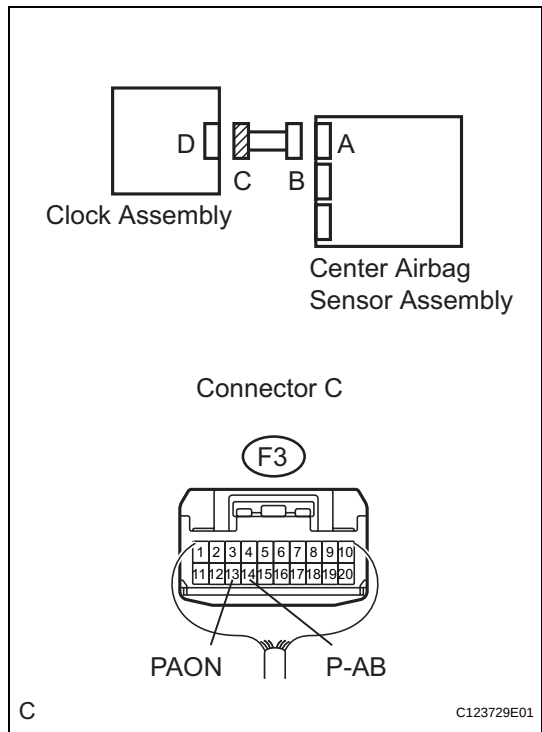
NG

REPAIR OR REPLACE WIRE HARNESS

OK

9

CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO B+)



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

Standard voltage

Tester Connection	Condition	Specified Condition
F3-13 (PAON) - Body ground	Power switch on (IG)	Below 1 V
F3-14 (P-AB) - Body ground	Power switch on (IG)	Below 1 V

NG

REPAIR OR REPLACE WIRE HARNESS

OK

REPLACE CLOCK ASSEMBLY (See page [OT-5](#))

10

CHECK CONNECTION OF CONNECTORS

- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check that the connectors are properly connected to the center airbag sensor assembly and the clock assembly.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS PROPERLY

OK

11

CHECK CONNECTORS

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

OK:

The connectors are not deformed or damaged.

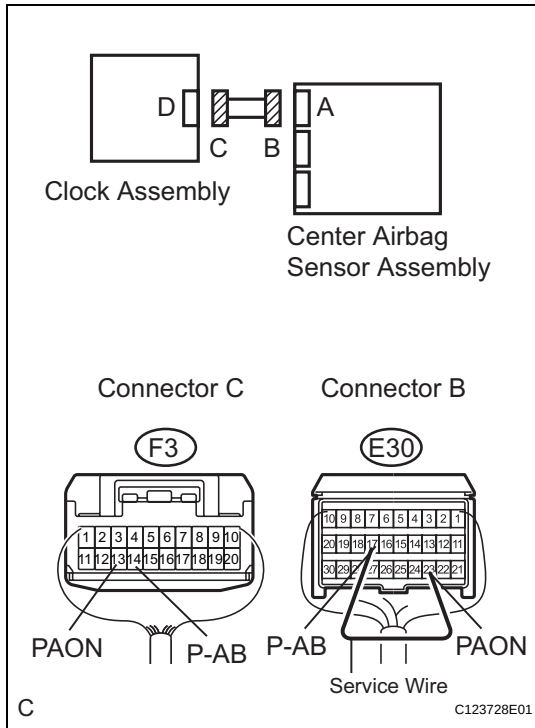
NG

REPAIR OR REPLACE WIRE HARNESS

OK

12

CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (OPEN)



- (a) Using a service wire, connect terminals 23 (PAON) and 17 (P-AB) of connector B.

NOTICE:

Do not forcibly insert a 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
F3-13 (PAON) - F3-14 (P-AB)	Always	Below 1 Ω

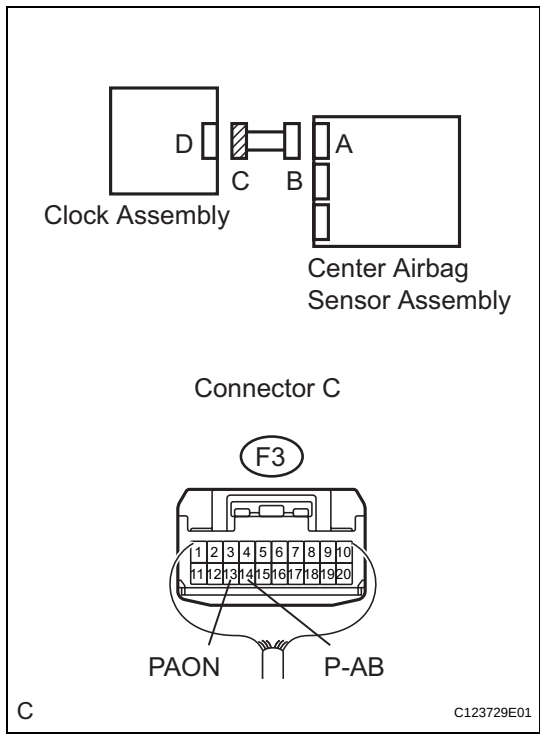
NG

REPAIR OR REPLACE WIRE HARNESS

OK

13

CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT)



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

Standard resistance

Tester Connection	Condition	Specified Condition
F3-13 (PAON) - F3-14 (P-AB)	Always	1 MΩ or higher

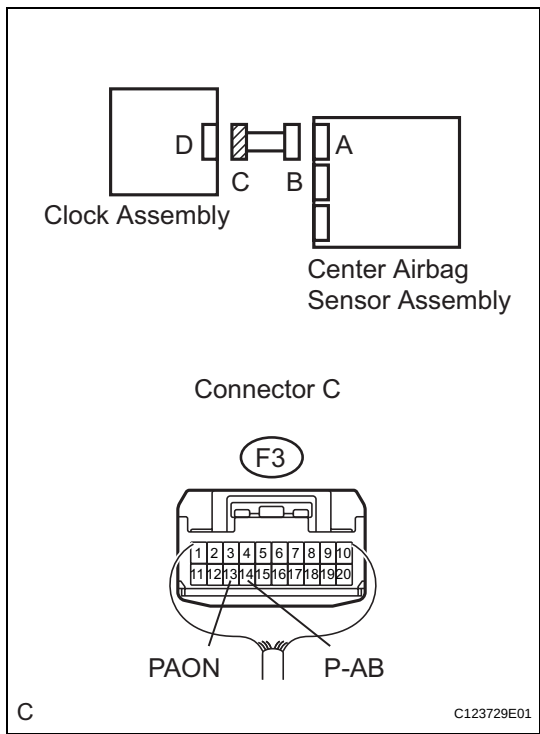
NG

REPAIR OR REPLACE WIRE HARNESS

OK

14

CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO GROUND)



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

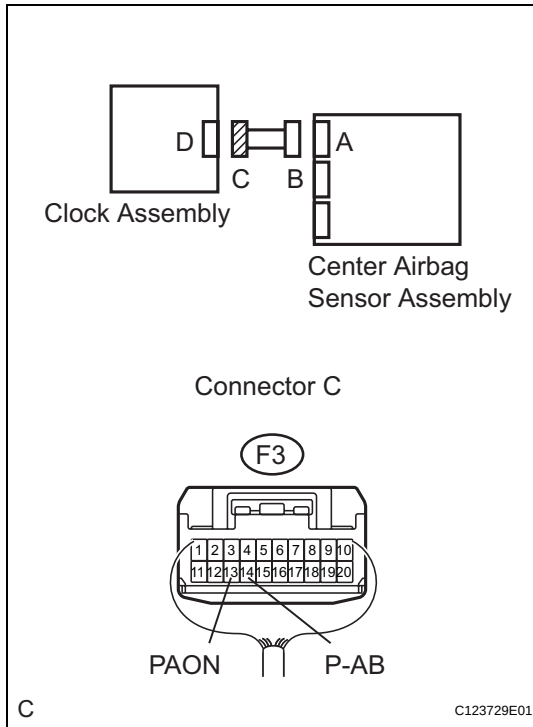
Standard resistance

Tester Connection	Condition	Specified Condition
F3-13 (PAON) - Body ground	Always	1 MΩ or higher
F3-14 (P-AB) - Body ground	Always	1 MΩ or higher

NG

REPAIR OR REPLACE WIRE HARNESS

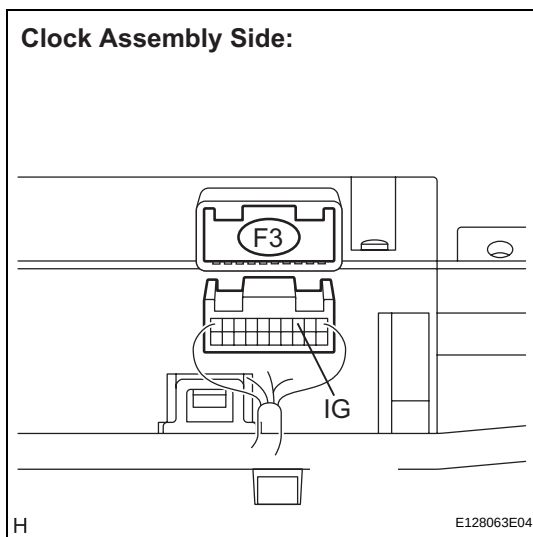
OK

15 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CIRCUIT (SHORT TO B+)

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

Standard voltage

Tester Connection	Condition	Specified Condition
F3-13 (PAON) - Body ground	Power switch on (IG)	Below 1 V
F3-14 (P-AB) - Body ground	Power switch on (IG)	Below 1 V

NG**REPAIR OR REPLACE WIRE HARNESS****OK****16 CHECK CLOCK ASSEMBLY (SOURCE VOLTAGE)**

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

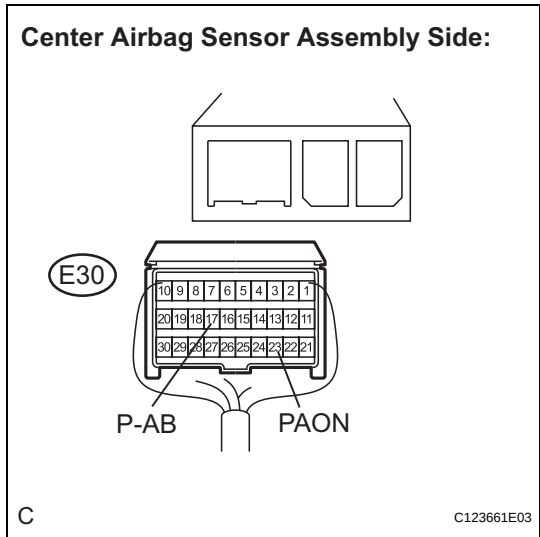
Standard voltage

Tester Connection	Condition	Specified Condition
F3-3 (IG) -Body ground	Power switch on (IG)	10 to 14 V

NG**REPAIR OR REPLACE WIRE HARNESS (CLOCK ASSEMBLY - BATTERY) OR BATTERY****OK**

17

CHECK PASSENGER AIRBAG ON / OFF INDICATOR



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connector to the clock assembly.
- (d) Disconnect the connectors from the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the power switch on (IG).
- (g) Check the indicator according to the conditions in the table below.

Result

Tester Connection	Condition	Passenger airbag ON/ OFF indicator
E30-23 (PAON) - Body ground	Power switch on (IG)	"ON" comes on
E30-17 (P-AB) - Body ground	Power switch on (IG)	"OFF" comes on

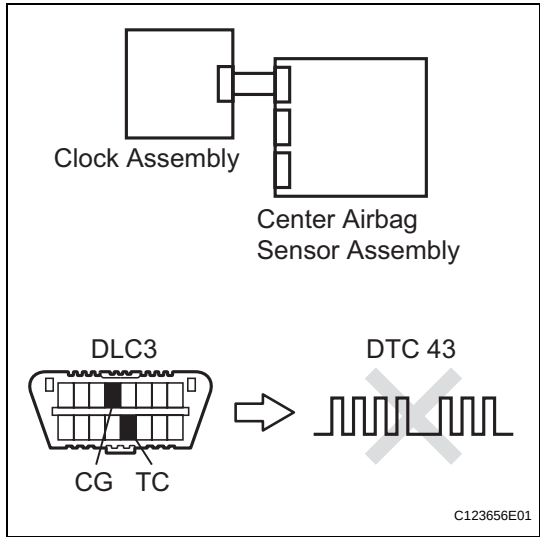
NG

REPLACE CLOCK ASSEMBLY (See page OT-5)

OK

18

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connectors to the center airbag sensor assembly.
- (d) Connect the negative (-) terminal cable to the battery and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in the memory (See page RS-41).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check for DTCs (See page RS-41).

OK:

DTC B1660/43 is not output.

HINT:

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

NG

REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page RS-423)

A button with a black border and a downward-pointing arrow shape, containing the text "OK".

OK

USE SIMULATION METHOD TO CHECK (See page [RS-33](#))