

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

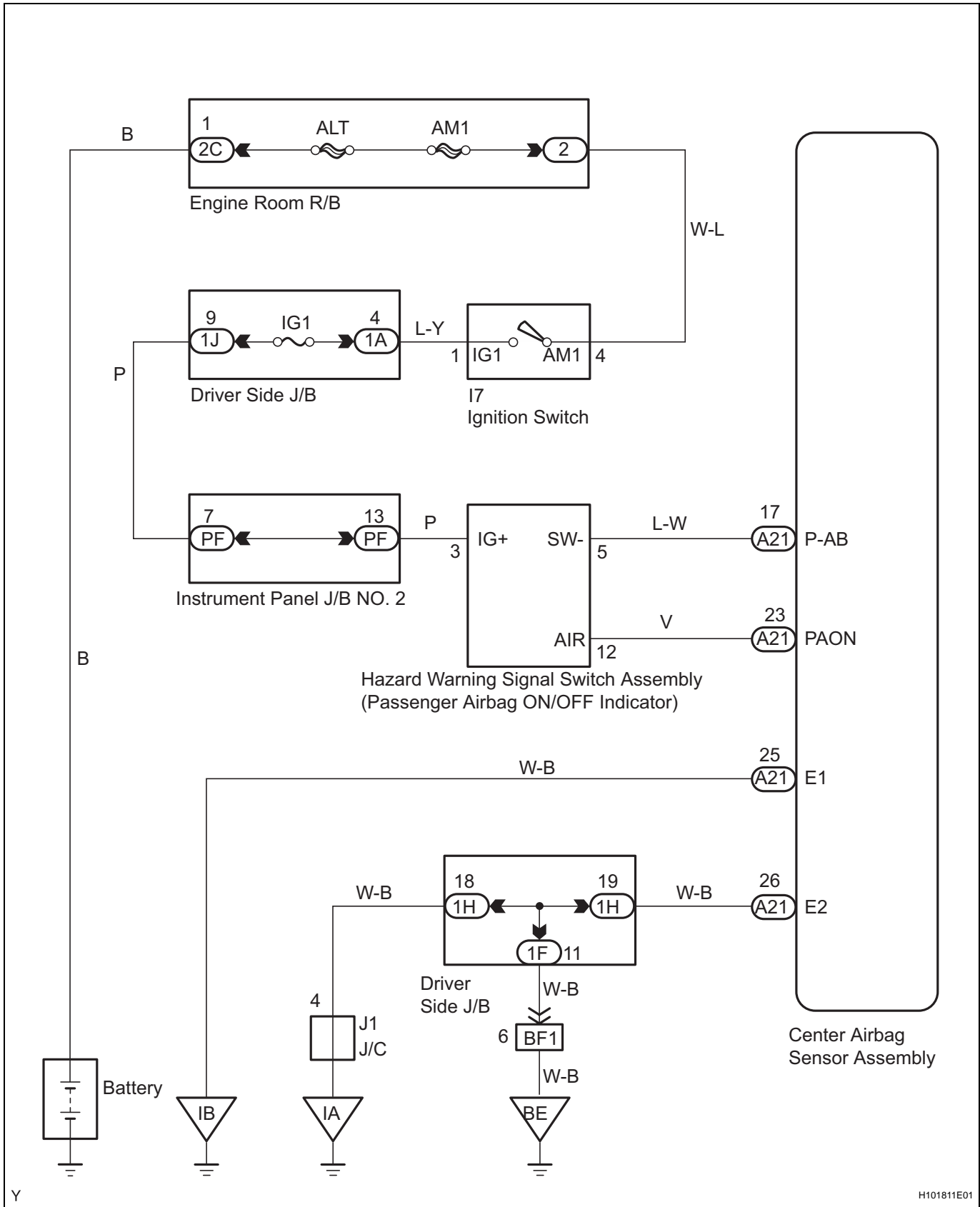
The passenger airbag ON/OFF indicator light circuit consists of the center airbag sensor assembly and the passenger seat belt warning light assembly.

This circuit indicates the operation condition of the front passenger airbag assembly, the front seat airbag assembly RH and passenger side seat belt pretensioner.

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	<ul style="list-style-type: none"> • 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 • Passenger seat belt warning lamp assembly malfunction • Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> • Instrument panel wire • Hazard warning signal switch assembly (Passenger airbag ON/OFF indicator) • Center airbag sensor assembly

WIRING DIAGRAM



RS

CAUTION:

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.

- (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) Disconnect the connectors from the center airbag sensor assembly.
- (d) Disconnect the connectors from the steering pad.
- (e) Disconnect the connector from the front passenger airbag assembly.
- (f) Disconnect the connector from the front seat airbag assembly LH.
- (g) Disconnect the connector from the front seat airbag assembly RH.

HINT:

Skip the following steps if side and curtain shield airbags are not fitted.

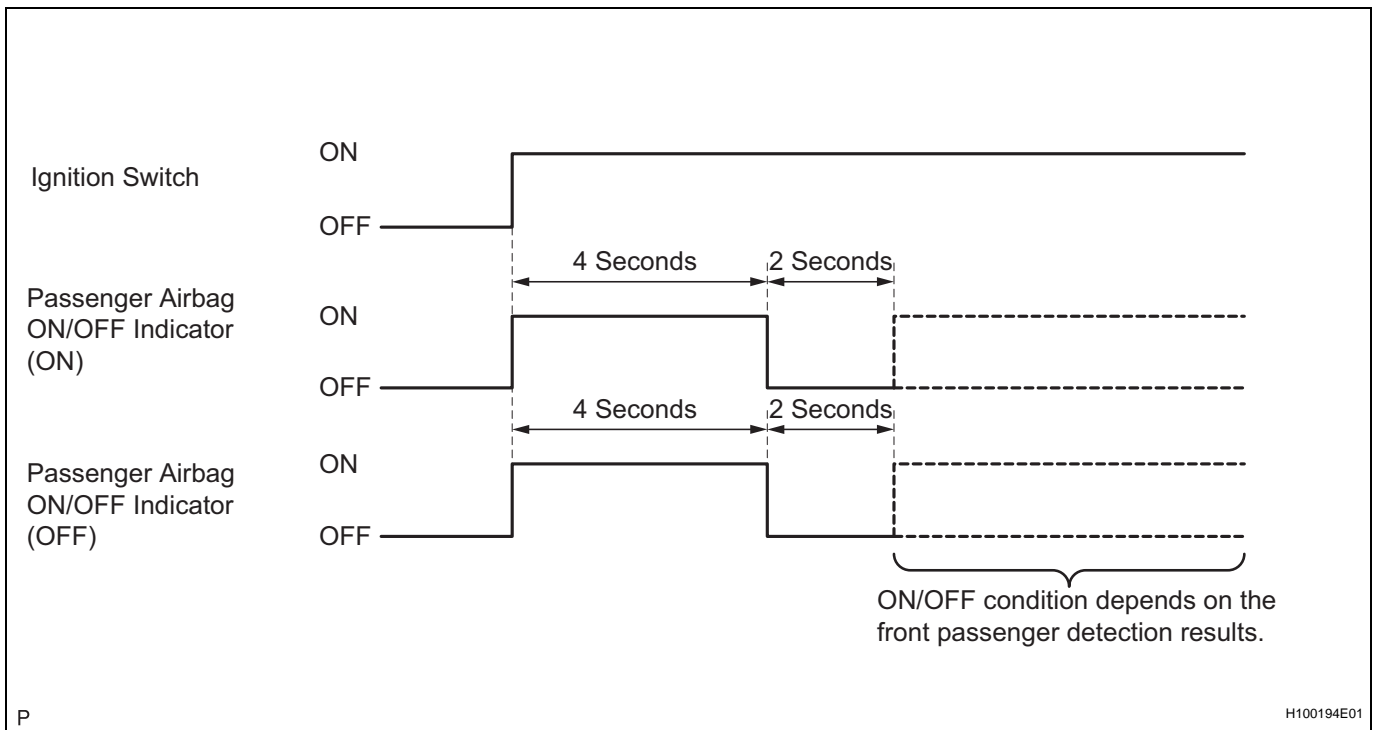
- (h) Disconnect the connector from the curtain shield airbag assembly LH.
- (i) Disconnect the connector from the curtain shield airbag assembly RH.
- (j) Disconnect the connector from the front seat outer belt assembly LH.
- (k) Disconnect the connector from the front seat outer belt assembly RH.

1 CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION

- (a) Turn the ignition switch to the ON position.
- (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-484](#) or [RS-362](#)).



RS

Result

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 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 center airbag sensor assembly and the hazard warning signal switch assembly.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS

OK

3

CHECK CONNECTORS

- (a) Check that the connectors (on the center airbag sensor assembly side and passenger seat belt warning light assembly side) are not damaged (See page IN-34).

OK:

The connectors are not deformed or damaged.

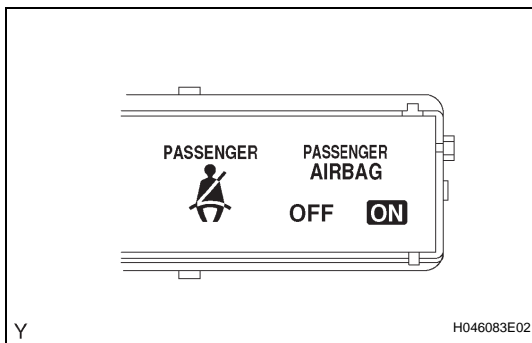
NG

REPAIR OR REPLACE WIRE HARNESS

OK

4

CHECK HAZARD WARNING SIGNAL SWITCH ASSEMBLY (PASSENGER AIRBAG ON/OFF INDICATOR)



- (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) Disconnect the connector from the center 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 the ON position.
- (f) Check the passenger airbag ON/OFF indicator operation.

OK:

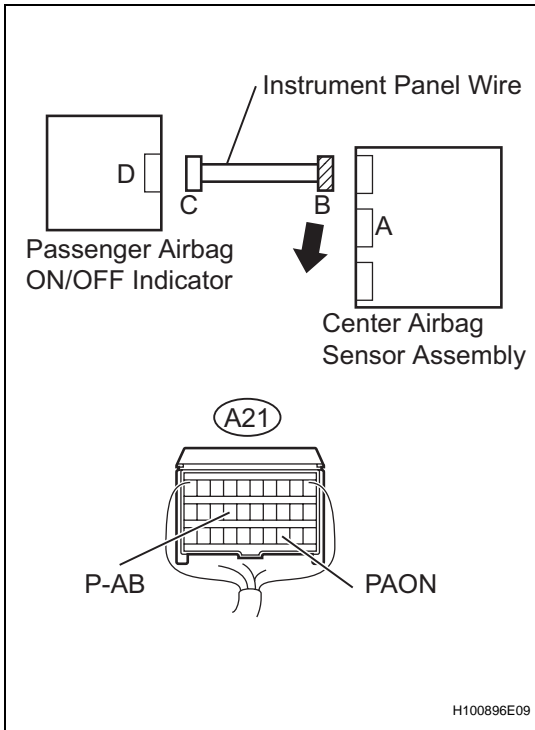
Neither ON nor OFF passenger airbag ON/OFF indicator comes on.

OK

Go to step 17

NG

5 CHECK INSTRUMENT PANEL WIRE (TO GROUND)



- (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) Disconnect the connector from the passenger seat belt warning light assembly.
- (d) Measure the resistance.

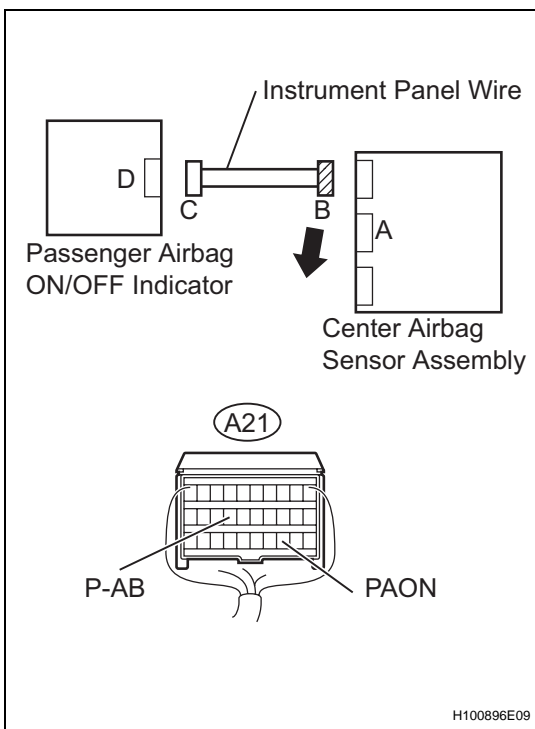
Standard resistance

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

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6 CHECK INSTRUMENT PANEL WIRE (FOR SHORT)



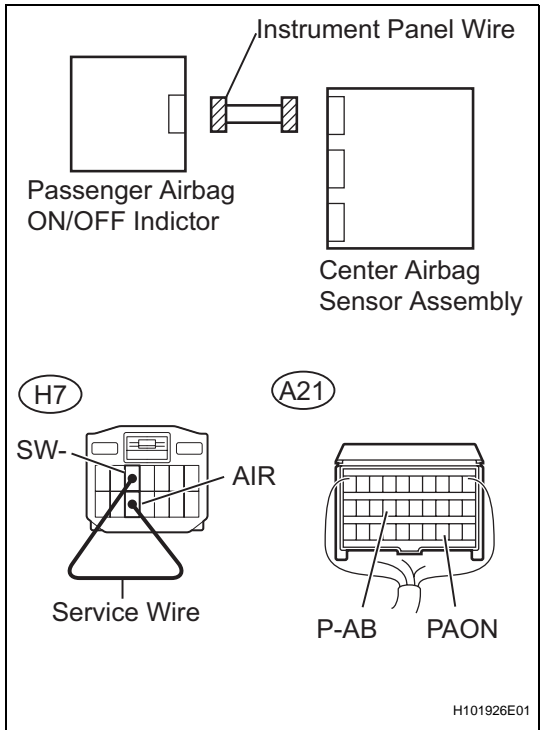
- (a) Measure the resistance.
- Standard resistance**

Tester Connection	Condition	Specified Condition
A21-17 (P-AB) - A21-23 (PAON)	Always	1 MΩ or Higher

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

7 CHECK INSTRUMENT PANEL WIRE (FOR OPEN)



- (a) Using a service wire, connect H7-5 (SW-) and H7-12 (AIR) of connector C.

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

- (b) Measure the resistance.

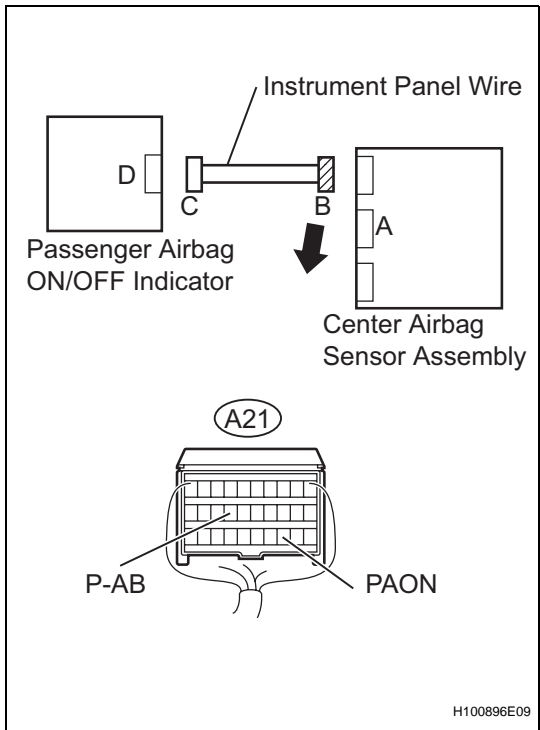
Standard resistance

Tester Connection	Condition	Specified Condition
A21-23 (PAON) - A21-17 (P-AB)	Always	Below 1 Ω

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

8 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 the ON position.
- (d) Measure the voltage.

Standard voltage

Tester Connection	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

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

OK

INSPECT HAZARD WARNING SIGNAL SWITCH ASSEMBLY

9 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 center airbag sensor assembly and the hazard warning signal switch assembly.

OK:**The connectors are properly connected.**

NG

CONNECT CONNECTORS

OK

10 CHECK CONNECTORS

- (a) Check that the connectors (on the center airbag sensor assembly side and passenger seat belt warning light assembly side) are not damaged (See page [IN-34](#)).

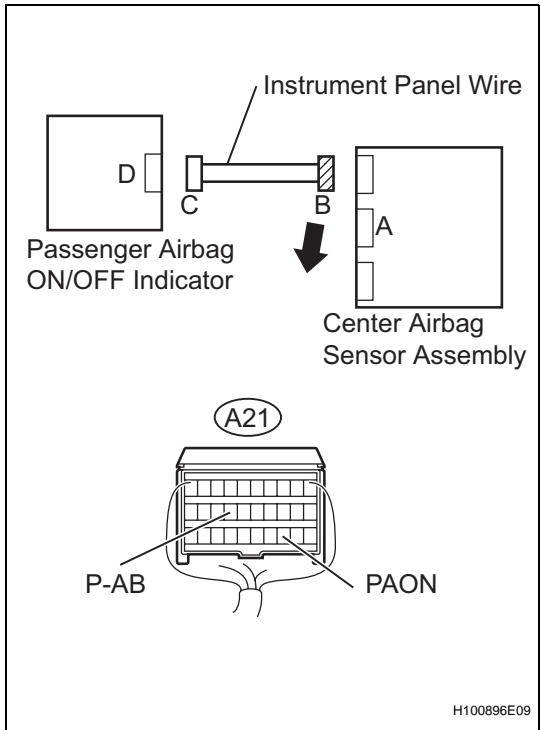
OK:**The connectors are not deformed or damaged.**

NG

REPAIR OR REPLACE WIRE HARNESS

OK

11 CHECK INSTRUMENT PANEL WIRE (TO GROUND)



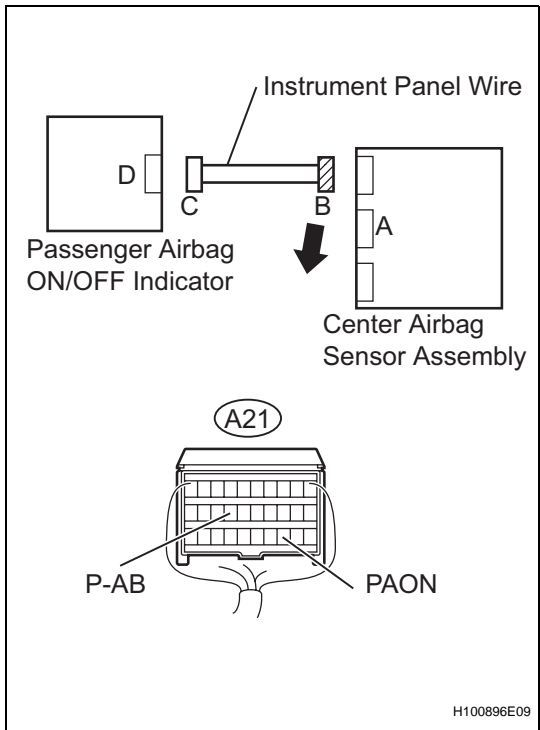
- (a) Disconnect the connector from the passenger seat belt warning light assembly.
 - (b) Measure the resistance.
- Standard resistance**

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

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

12 CHECK INSTRUMENT PANEL WIRE (FOR SHORT)



- (a) Measure the resistance.
- Standard resistance**

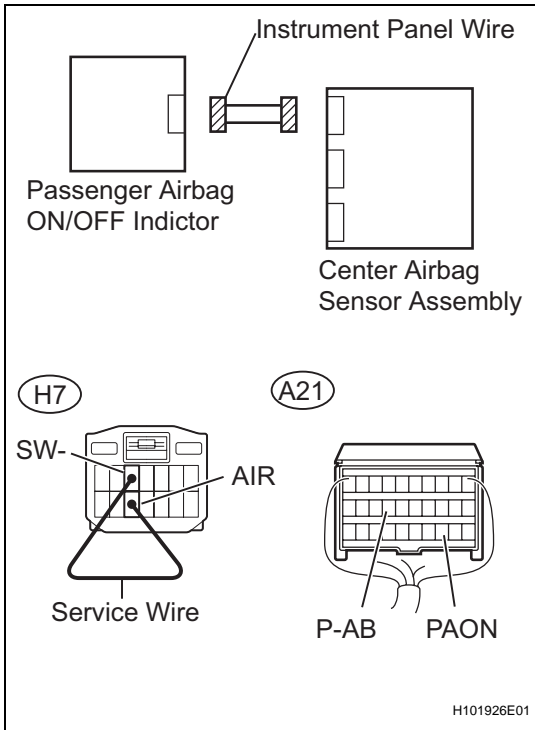
Tester Connection	Condition	Specified Condition
A21-17 (P-AB) - A21-23 (PAON)	Always	1 MΩ or Higher

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

RS

13 CHECK INSTRUMENT PANEL WIRE (FOR OPEN)



- (a) Using a service wire, connect H7-5 (SW-) and H7-12 (AIR) of connector C.

NOTICE:

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

- (b) Measure the resistance.

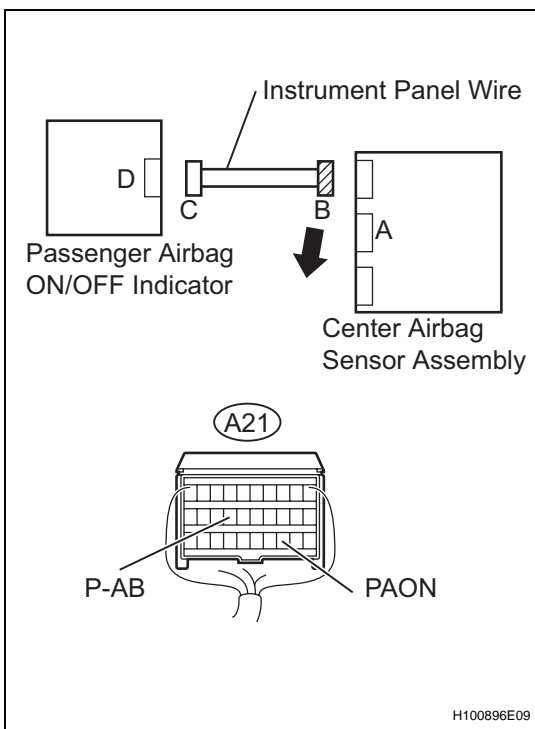
Standard resistance

Tester Connection	Condition	Specified Condition
A21-23 (PAON) - A21-17 (P-AB)	Always	Below 1 Ω

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

14 CHECK INSTRUMENT PANEL WIRE (TO B+)



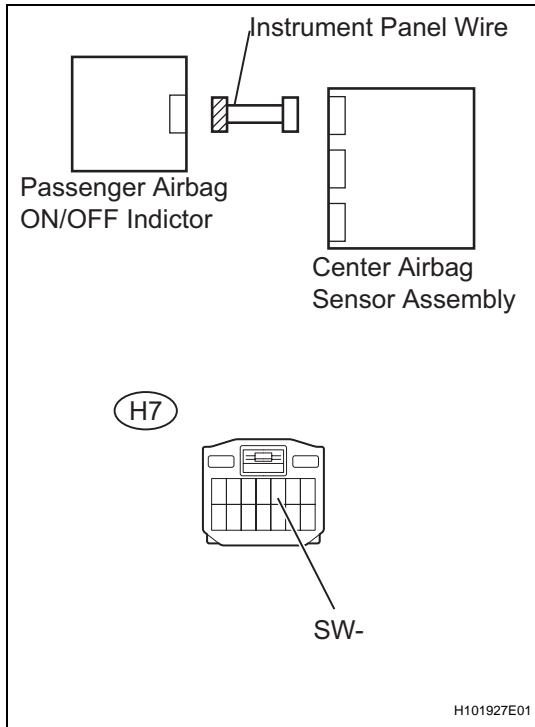
- (a) Disconnect the service wire from connector C.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch to the ON position.
- (d) Measure the voltage.

Standard voltage

Tester Connection	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

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

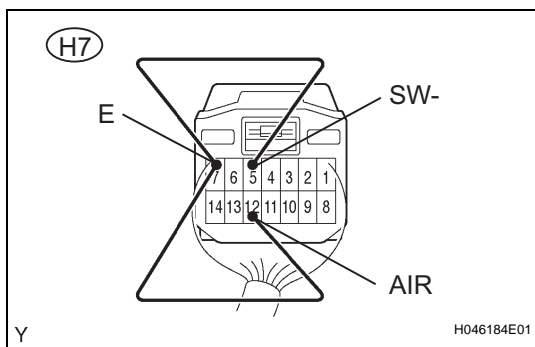
OK

15 CHECK WIRE HARNESS (POWER SOURCE)

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage.

Standard voltage

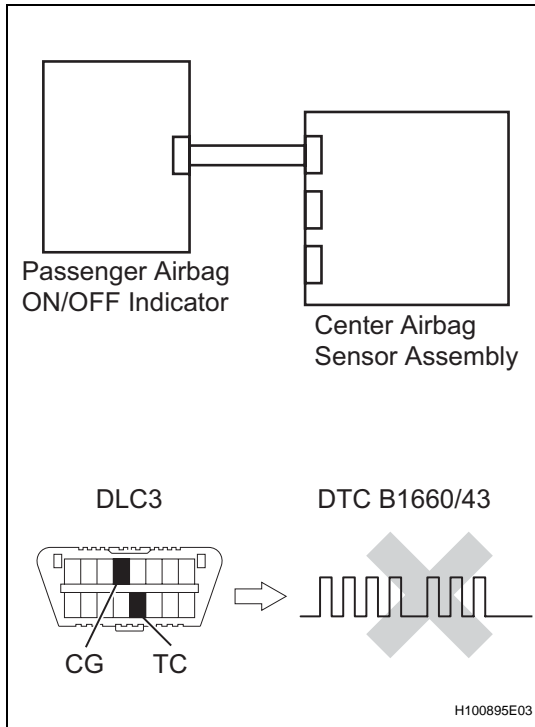
Tester Connection	Condition	Specified Condition
H7-3 (IG+) - Body ground	Ignition switch ON	10 to 14 V

NG**REPAIR OR REPLACE POWER SOURCE CIRCUIT****OK****16 CHECK HAZARD WARNING SIGNAL SWITCH ASSEMBLY**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connector to the hazard warning signal switch.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Using a service wire, connect H7-5 (SW-) and H7-7 (E) of hazard warning signal switch assembly connector.
- Using a service wire, connect H7-12 (AIR) and H7-7 (E) of hazard warning signal switch assembly connector.
- Turn the ignition switch to the ON position.
- Check the passenger airbag ON/OFF indicator operation.

OK:**Passenger airbag ON/OFF indicator comes on****NG****INSPECT HAZARD WARNING SIGNAL SWITCH ASSEMBLY****OK**

17 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (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) Connect the connectors to the center airbag sensor assembly.
- (d) Connect the connector to the passenger seat belt warning light assembly.
- (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 any DTCs stored in the memory (See page RS-34).
- (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-34).

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 CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK