

DTC	B1660/43	PASSENGER AIRBAG ON/OFF INDICATOR LIGHT CIRCUIT MALFUNCTION
------------	-----------------	--

CIRCUIT DESCRIPTION

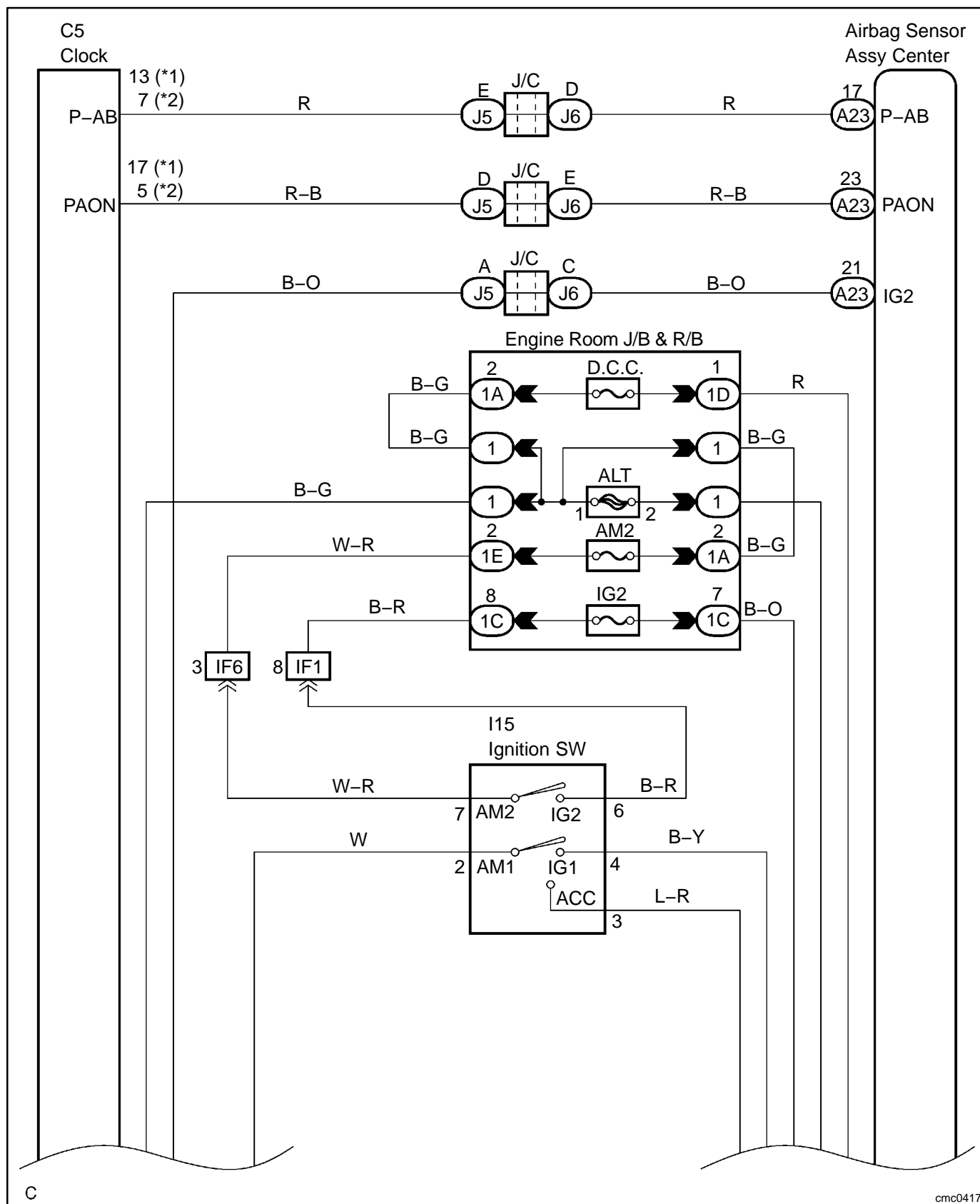
The passenger airbag ON/OFF indicator light circuit consists of the airbag sensor assy center and the clock assy.

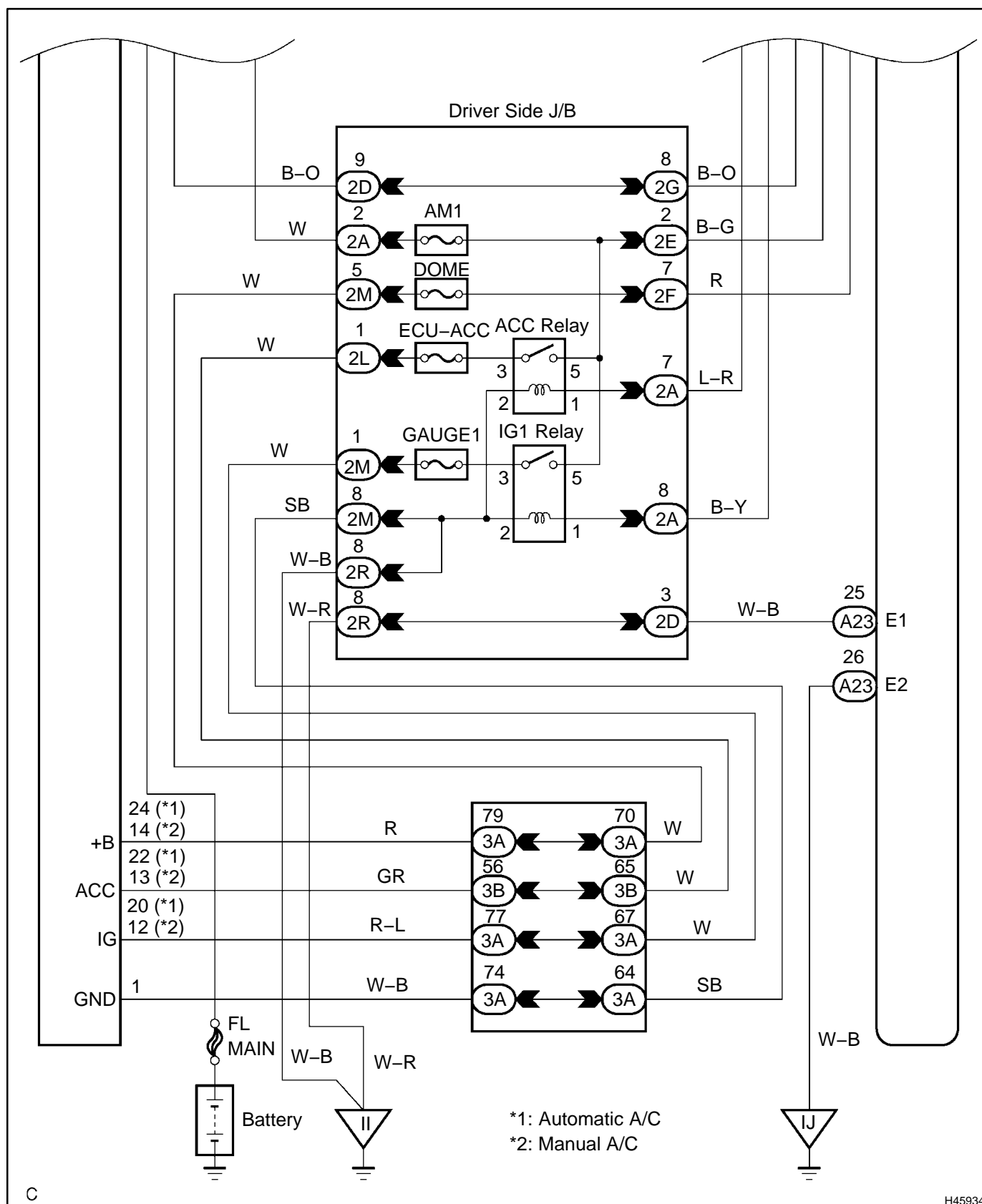
This circuit indicates the operation condition of the front passenger airbag assy and the front seat airbag assy RH.

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

DTC No.	DTC Detecting Condition	Trouble Area
B1660/43	<ul style="list-style-type: none">• The airbag sensor assy center 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 light circuit for 2 seconds.• Clock assy malfunction• Airbag sensor assy center malfunction	<ul style="list-style-type: none">• Clock assy (Passenger airbag ON/OFF indicator)• Airbag sensor assy center• Instrument panel wire

WIRING DIAGRAM





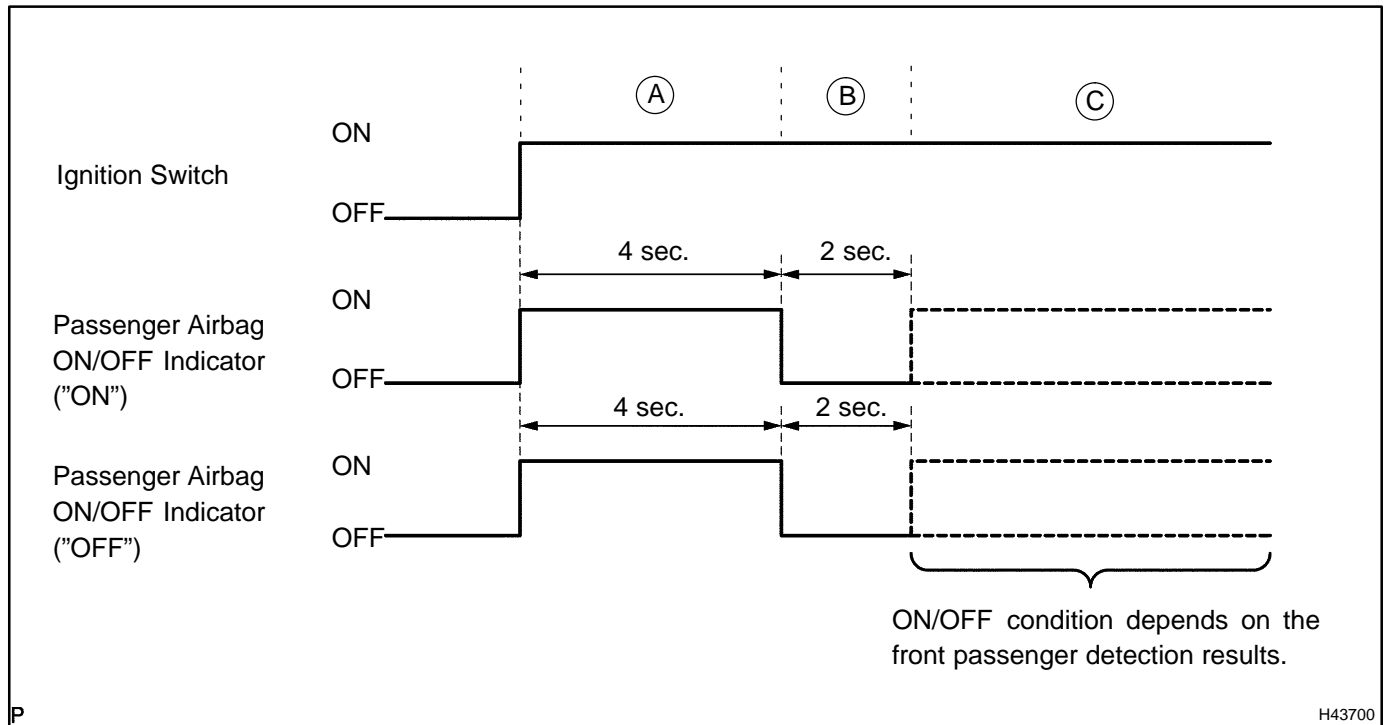
CIRCUIT PROCEDURE

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 condition.

HINT:

Refer to the normal condition of the passenger airbag ON/OFF indicator (see page 05-1456).

**Result:****A:**

During period "A" in the illustration, even if both the "ON" and "OFF" passenger airbag ON/OFF indicators normally come on, both of them do not go off during period "B".

During period "A" and "B" in the illustration, even if both the "ON" and "OFF" passenger airbag ON/OFF indicators normally come on, both of them come on during period "C".

B:

During period "A", neither the "ON" nor "OFF" passenger airbag ON/OFF indicators come on, or one of them does not come on.

During period "C", even if the front passenger seat is occupied, neither the "ON" nor "OFF" passenger airbag ON/OFF indicators come on.

B**Go to step 7****A**

2 CHECK CLOCK ASSY (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 clock assy.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Check the passenger airbag ON/OFF indicator operation.

OK:**The passenger airbag ON/OFF indicator does not come on.****NG****REPLACE CLOCK ASSY (SEE PAGE 71-30)****OK****3 PREPARE FOR INSPECTION****CAUTION:**

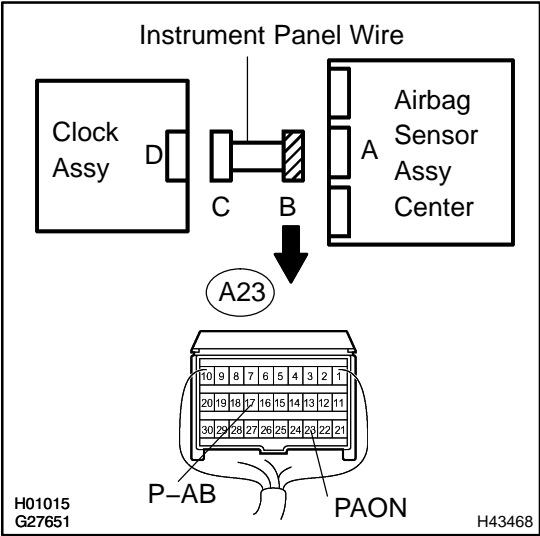
Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

- (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 airbag sensor assy center.
- (d) Disconnect the connectors from the horn button assy.
- (e) Disconnect the connectors from the front passenger airbag assy.
- (f) w/ Side airbag:
Disconnect the connector from the front seat airbag assy LH.
- (g) w/ Side airbag:
Disconnect the connector from the front seat airbag assy RH.
- (h) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
- (i) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.
- (j) Disconnect the connector from the front seat outer belt assy LH.
- (k) Disconnect the connector from the front seat outer belt assy RH.

NEXT

4

CHECK INSTRUMENT PANEL WIRE (TO GROUND)



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

Standard:

Terminal connection	Condition	Specified condition
A23-17 (P-AB) – Body ground	Always	1 MΩ or Higher
A23-23 (PAON) – Body ground	Always	1 MΩ or Higher

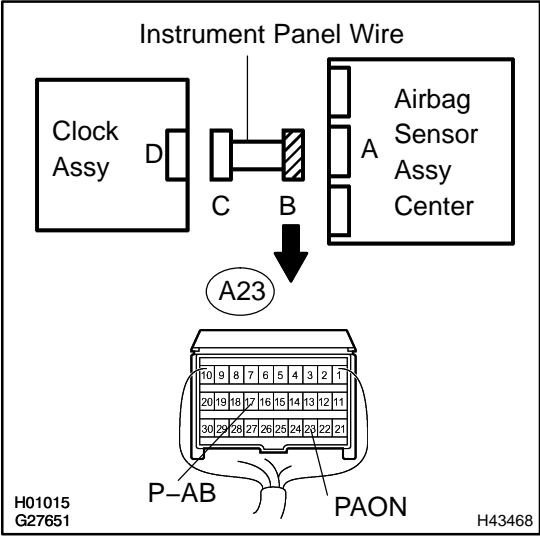
NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

5

CHECK INSTRUMENT PANEL WIRE (SHORT)



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

Standard:

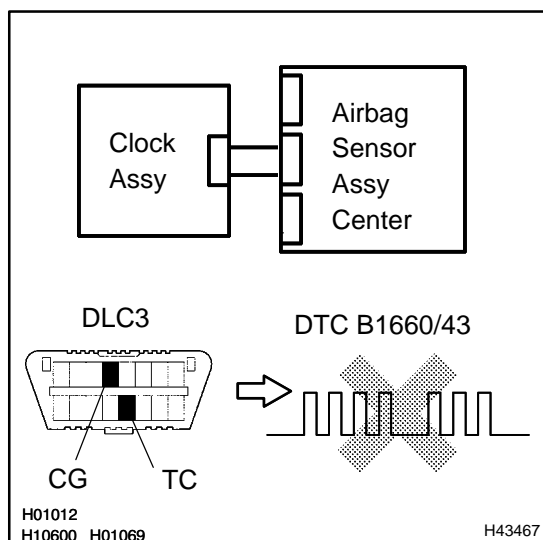
Terminal connection	Condition	Specified condition
A23-17 (P-AB) – A23-23 (PAON)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6 CHECK AIR BAG SENSOR ASSY CENTER



- Connect the connectors to the airbag sensor assy center.
- Connect the connector to the clock assy.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1464).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (see page 05-1464).

OK:

DTC B1660/43 is not output.

HINT:

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

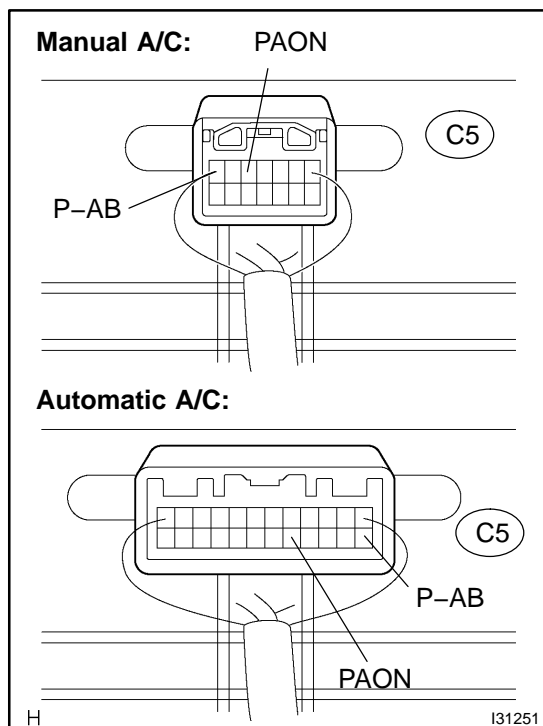
NG

**REPLACE AIR BAG SENSOR ASSY CENTER
(SEE PAGE 60-59)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1456)

7 CHECK SOURCE VOLTAGE



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

Standard:

Manual A/C:

Terminal connection	Condition	Specified condition
C5-5 (PAON) – Body ground	Ignition switch ON	10 to 14 V
C5-7 (P-AB) – Body ground	Ignition switch ON	10 to 14 V

Automatic A/C:

Terminal connection	Condition	Specified condition
C5-17 (PAON) – Body ground	Ignition switch ON	10 to 14 V
C5-13 (P-AB) – Body ground	Ignition switch ON	10 to 14 V

NG

**REPLACE CLOCK ASSY OR WIRE HARNESS
(CLOCK ASSY – BATTERY) OR BATTERY**

OK

8 PREPARE FOR INSPECTION

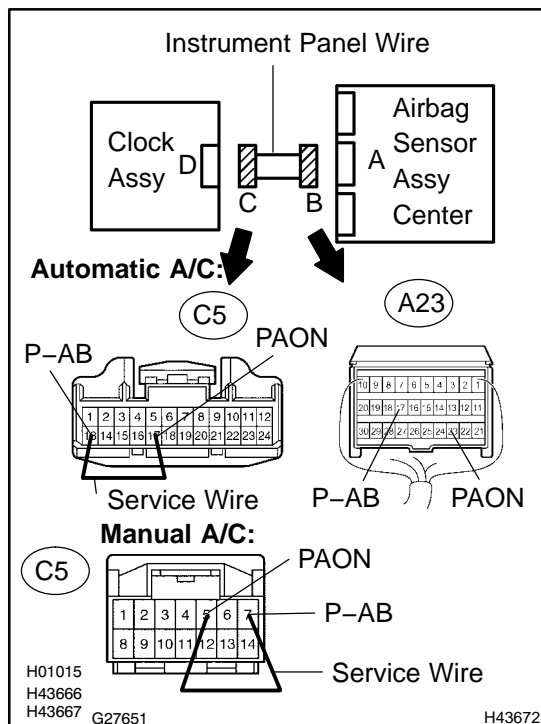
CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

- (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 airbag sensor assy center.
- (d) Disconnect the connectors from the horn button assy.
- (e) Disconnect the connectors from the front passenger airbag assy.
- (f) w/ Side airbag:
Disconnect the connector from the front seat airbag assy LH.
- (g) w/ Side airbag:
Disconnect the connector from the front seat airbag assy RH.
- (h) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
- (i) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.
- (j) Disconnect the connector from the front seat outer belt assy LH.
- (k) Disconnect the connector from the front seat outer belt assy RH.

NEXT

9 CHECK INSTRUMENT PANEL WIRE (OPEN)



- (a) Automatic A/C:
Using a service wire, connect C5-17 (PAON) and C5-13 (P-AB) of connector "C".
- (b) Manual A/C:
Using a service wire, connect C5-5 (PAON) and C5-7 (P-AB) of connector "C".

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.

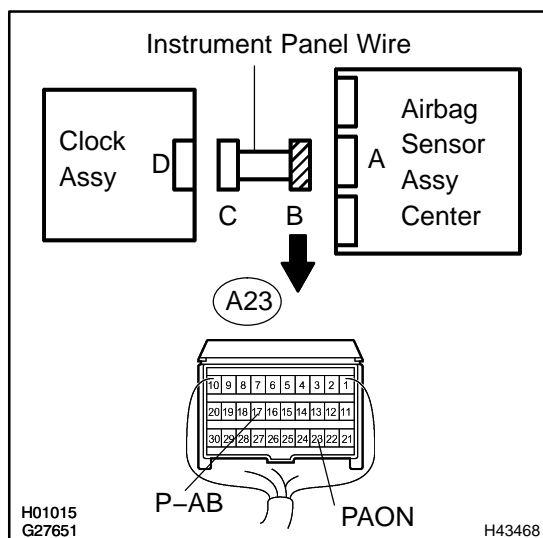
Standard:

Tester connection	Condition	Specified condition
A23-23 (PAON) – A23-17 (P-AB)	Always	Below 1 Ω

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

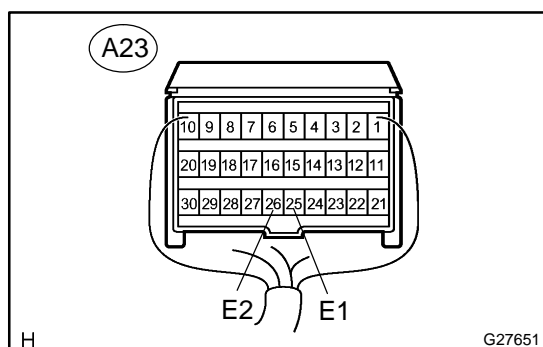
OK

10 CHECK INSTRUMENT PANEL WIRE (TO B+)

- Disconnect the service wire from connector "C".
- 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 according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A23–23 (PAON) – Body ground	Ignition switch ON	Below 1 V
A23–17 (P–AB) – Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****11 CHECK INSTRUMENT PANEL WIRE (AIRBAG SENSOR ASSY CENTER – BODY GROUND)**

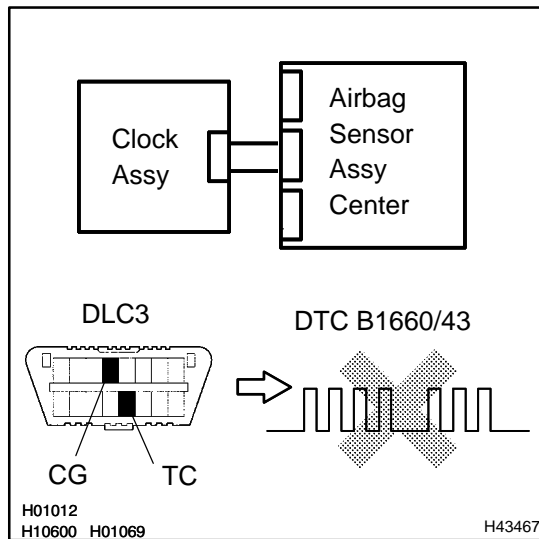
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A23–25 (E1) – Body ground	Always	Below 1 Ω
A23–26 (E2) – Body ground	Always	Below 1 Ω

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK**

12 CHECK AIR BAG SENSOR ASSY CENTER



- Connect the connectors to the airbag sensor assy center.
- Connect the connector to the clock assy.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1464).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (see page 05-1464).

OK:

DTC B1660/43 is not output.

HINT:

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

NG

**REPLACE AIR BAG SENSOR ASSY CENTER
(SEE PAGE 60-59)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1456)