

## Front Passenger Side Seat Belt Warning Light Malfunction

### DESCRIPTION

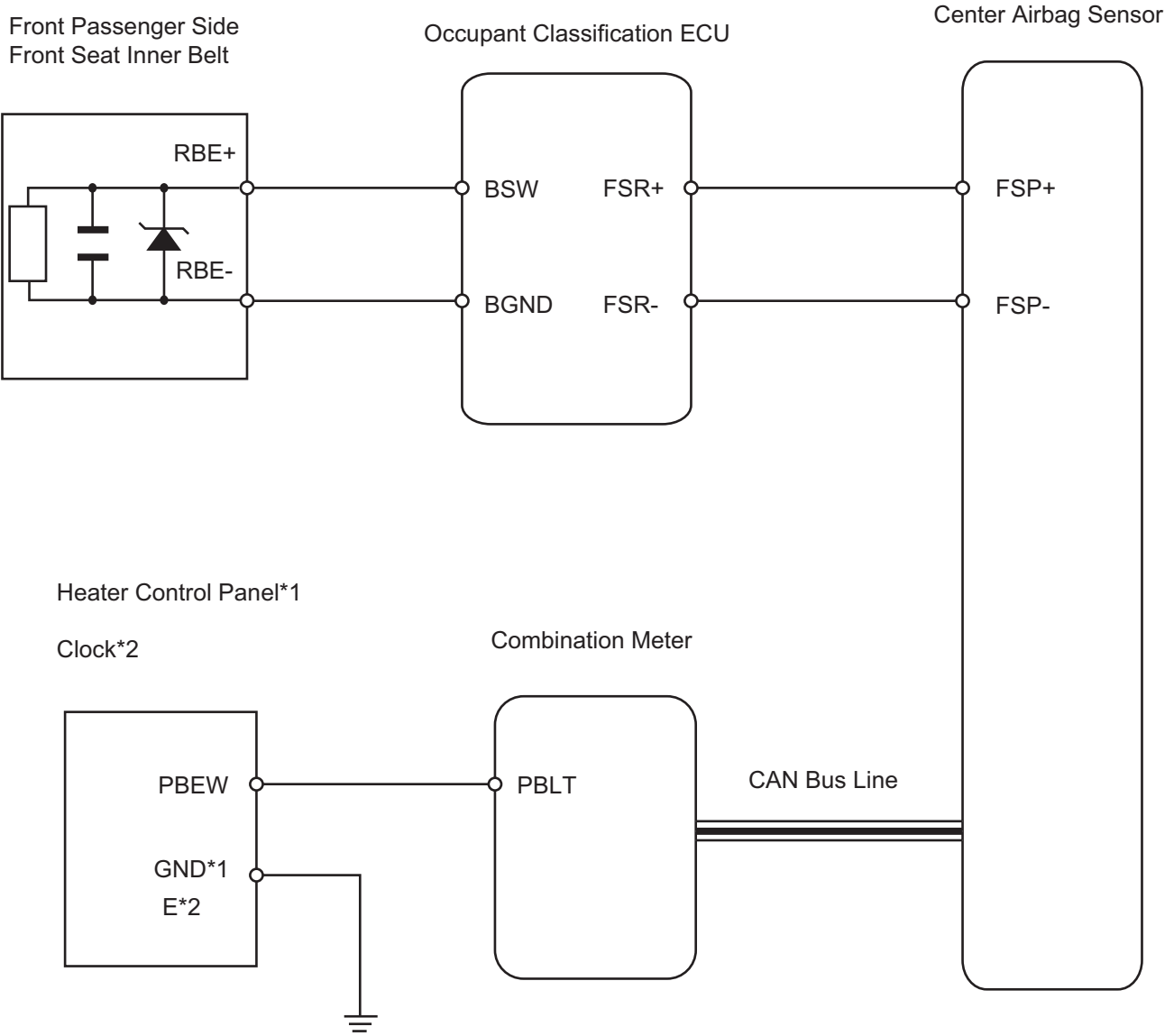
When the ignition switch is ON, the center airbag sensor transmits front seat inner belt status signals to the combination meter through the CAN bus line. If the front passenger seat belt is not fastened, the heater control panel (automatic A/C) or clock (manual A/C) blinks the front passenger seat belt warning light. If the seat belt is fastened, the warning light goes off.

### NOTICE:

**The seat belt warning system uses the CAN bus line. Before troubleshooting the seat belt warning system, perform "COMMUNICATION FUNCTION CHECK" by following "HOW TO PROCEED WITH TROUBLESHOOTING" to confirm that the communication systems are normal.**

WIRING DIAGRAM

\*1: for Automatic Air Conditioning System    \*2: for Manual Air Conditioning System



SB

## INSPECTION PROCEDURE

**1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER**

- (a) Select the Active Test, use the intelligent tester to generate a control command, and then check that the seat belt warning light operates.

**Center airbag sensor:**

Item	Test Details	Diagnostic Note
P-BELT REMIND	P-SEAT BELT warning light (OFF/ON)	Confirm that the vehicle is stopped, engine idling

**OK:**

Passenger side seat belt warning light operates normally.

OK

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

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**2 CHECK A/C TYPE**

- (a) Check system.

A/C type	Proceed to
for Automatic air conditioning system	A
for Manual air conditioning system	B

B

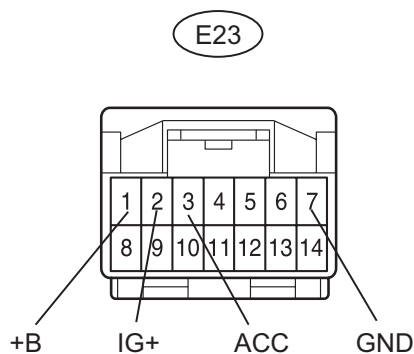
**Go to step 6**

A

**3 CHECK HEATER CONTROL PANEL (POWER SOURCE CIRCUIT)**

SB

Wire Harness Side



B130079E01

- (a) Disconnect the E23 panel connector.  
 (b) Measure the voltage and resistance of the wire harness side connector.

**Standard voltage**

Tester Connection	Condition	Specified Condition
E23-1 (+B) - Body ground	Always	10 to 14 V
E23-2 (IG+) - Body ground	Ignition switch ON	10 to 14 V
E23-3 (ACC) - Body ground	Ignition switch ON (ACC)	10 to 14 V

**Standard resistance**

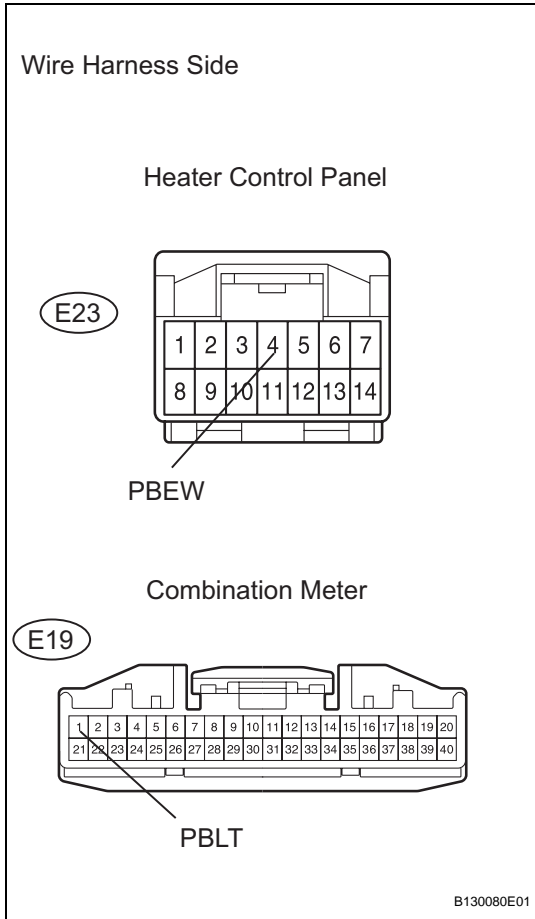
Tester Connection	Specified Condition
E23-7 (GND) - Body ground	Below 1 $\Omega$

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**REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

**4 CHECK WIRE HARNESS (HEATER CONTROL PANEL - COMBINATION METER ASSEMBLY)**



- (a) Disconnect the E23 panel connector.
- (b) Disconnect the E19 meter connector.
- (c) Measure the resistance of the wire harness side connectors.

**Standard resistance**

Tester Connection	Specified Condition
E19-1 (PBLT) - E23-4 (PBEW)	Below 1 Ω

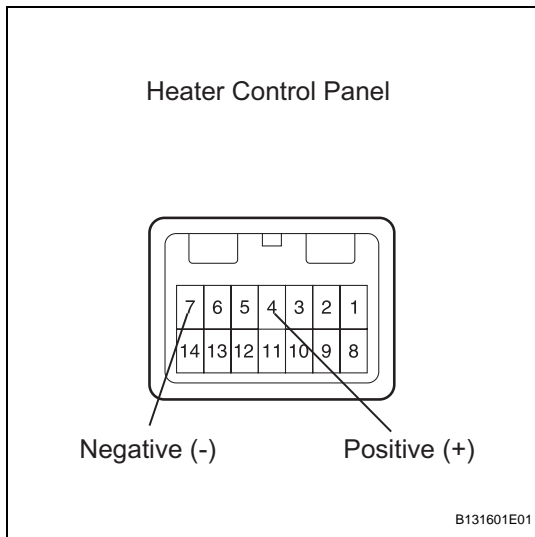
**NG** REPAIR OR REPLACE HARNESS AND CONNECTOR

SB

OK

**5 INSPECT HEATER CONTROL PANEL**

- (a) Remove the heater control panel.



- (b) Apply battery voltage and check that the front passenger side seat belt warning light illuminates.

**OK**

Measurement Condition	Specified Condition
Battery positive (+) - Terminal 4 Battery negative (-) - Terminal 7	Front passenger side seat belt warning light illuminates

**HINT:**

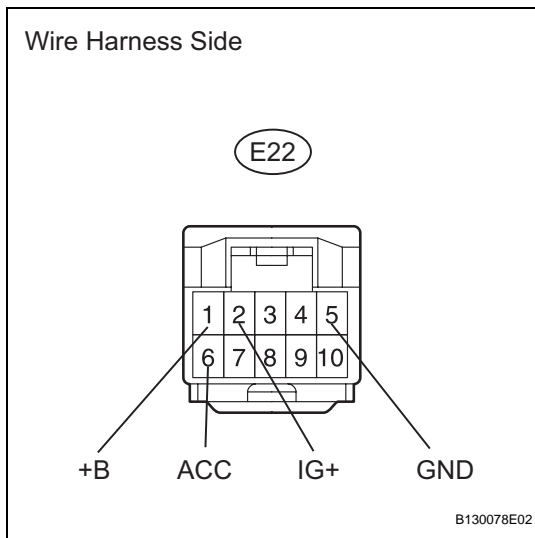
When the battery's negative (-) lead is applied to terminal 4 and the positive (+) lead is applied to terminal 7, the seat belt warning light does not illuminate.

**NG** → **REPLACE HEATER CONTROL PANEL**

**OK**

**REPLACE COMBINATION METER ASSEMBLY**

**6 CHECK CLOCK SUB-ASSEMBLY (POWER SOURCE CIRCUIT)**



- (a) Disconnect the E22 clock connector.  
(b) Measure the voltage and resistance of the wire harness side connector.

**Standard voltage**

Tester Connection	Condition	Specified Condition
E22-1 (+B) - Body ground	Always	10 to 14 V
B22-6 (ACC) - Body ground	Ignition switch ACC	10 to 14 V
E22-2 (IG+) - Body ground	Ignition switch ON	10 to 14 V

**Standard resistance**

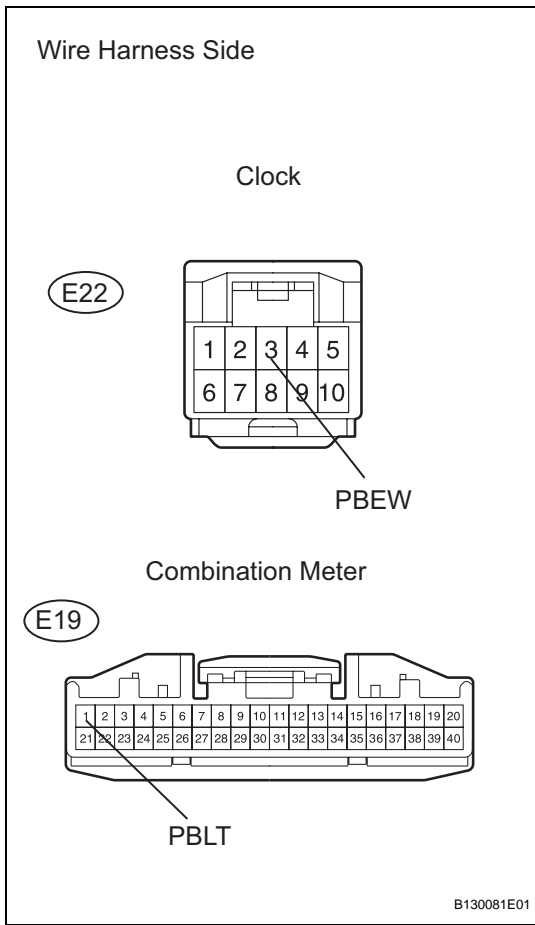
Tester Connection	Specified Condition
E22-5 - Body ground	Below 1 Ω

**NG** → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

**OK**

**7 CHECK WIRE HARNESS (CLOCK - COMBINATION METER)**

- (a) Disconnect the E22 clock connector.



- (b) Disconnect the E19 meter connector.
- (c) Measure the resistance of the wire harness side connectors.

**Standard resistance**

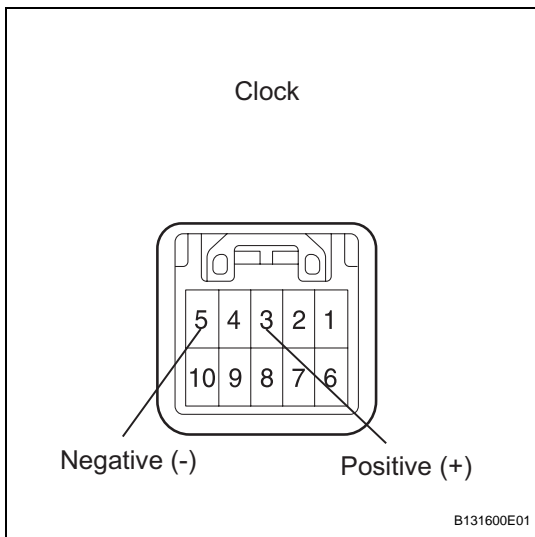
Tester Connection	Specified Condition
E22-3 (PBEW) - E19-1 (PBLT)	Below 1 Ω

**NG** REPAIR OR REPLACE HARNESS AND CONNECTOR

**OK**

**8 INSPECT CLOCK SUB-ASSEMBLY**

**SB**



- (a) Remove the clock.
- (b) Apply battery voltage and check that the front passenger side seat belt warning light illuminates.

**OK**

Measurement Condition	Specified Condition
Battery positive (+) - Terminal 3 Battery negative (-) - Terminal 5	Front passenger side seat belt warning light illuminates

**HINT:**  
When the battery's negative (-) lead is applied to terminal 3 and the positive (+) lead is applied to terminal 5, the seat belt warning light does not illuminate.

**NG** REPLACE CLOCK SUB-ASSEMBLY

**OK**

**REPLACE COMBINATION METER ASSEMBLY**