

PROBLEM SYMPTOMS TABLE

HINT:

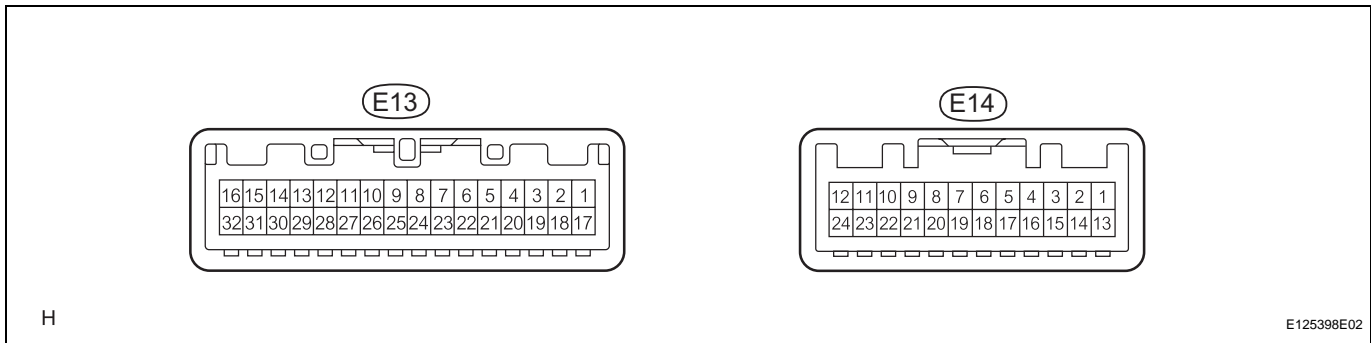
Use the table below to help determine the causes of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Seat belt warning system

Symptom	Suspected area	See page
Front driver seat belt warning light does not operate	Front seat inner belt assembly (Driver side)	SB-32
	Wire harness	SB-22
	Combination meter assembly	SB-22
Front passenger seat belt warning light does not operate	Front seat inner belt assembly (Passenger side)	SB-25
	Wire harness	SB-25
	Occupant classification ECU	SB-25
	Center airbag sensor assembly	SB-25
	Combination meter assembly	SB-25
	Air conditioning amplifier	-
Seat belt warning buzzer does not sound (Front driver and front passenger seat belt warning lights operate normally)	Integration control and panel assembly (Front passenger seat belt warning light)	SB-2
	Combination meter assembly	ME-15

TERMINALS OF ECU

1. COMBINATION METER ASSEMBLY



- (a) Disconnect the E13 combination meter assembly connector.
- (b) Measure the voltage and resistance of the wire harness side connector.

SB
Standard:

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E13-1 (B) - Body ground	R - Body ground	Battery	Always	11 to 14 V
E13-2 (IG+) - Body ground	R-L - Body ground	Ignition switch signal	Ignition switch OFF → ON	Below 1 V → 11 to 14 V
E13-21 (ES) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction in the wire harness.

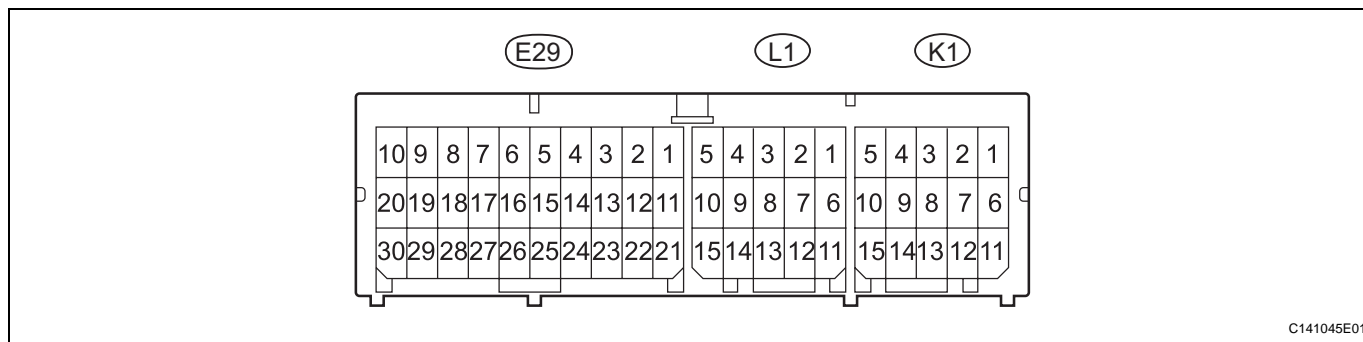
- (c) Reconnect the combination meter assembly connector.
- (d) Measure the voltage of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E13-7 (WRNP) - Body ground	LG - Body ground	Seat belt warning light signal (Front passenger side)	Ignition switch ON Front passenger seat is occupied and its seat belt is unfastened	Alternating between 11 to 14 V and below 3 V
E13-7 (WRNP) - Body ground	LG - Body ground	Seat belt warning light signal (Front passenger side)	Ignition switch ON Front passenger seat is occupied and its seat belt is fastened	Below 1 V
E13-8 (L) - Body ground	G-Y - Body ground	Front seat inner belt signal (Front driver side)	Ignition switch ON Front seat belt is unfastened (Front driver side)	Below 1 V
E13-8 (L) - Body ground	G-Y - Body ground	Front seat inner belt signal (Front driver side)	Ignition switch ON Front seat belt is fastened (Front driver side)	9 to 14 V
E13-10 (PBKL) - Body ground	L-R - Body ground	Front seat inner belt signal (Front passenger side)	Ignition switch ON Front seat belt is unfastened (Front passenger side)	Below 1 V
E13-10 (PBKL) - Body ground	L-R - Body ground	Front seat inner belt signal (Front passenger side)	Ignition switch ON Front seat belt is fastened (Front passenger side)	8 to 14 V

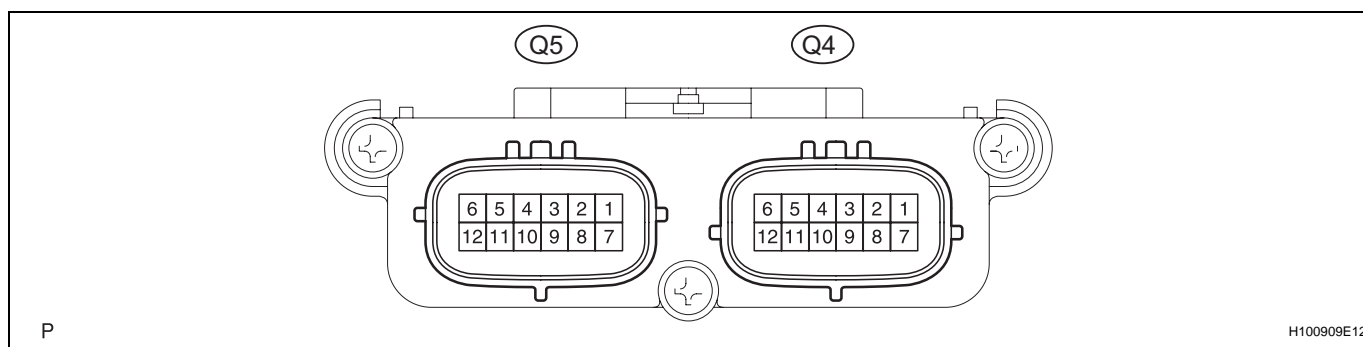
If the result is not as specified, there may be a malfunction in the wire harness.

2. CENTER AIRBAG SENSOR ASSEMBLY



Terminal No.	Terminal Symbol	Destination
E29-13	PBEW	Combination meter assembly
E29-21	IG2	IGN fuse
E29-25	E1	Ground
K1-12	FSP+	Occupant Classification ECU
K1-13	FSP-	Occupant Classification ECU

3. OCCUPANT CLASSIFICATION ECU



- Disconnect the Q4 occupant classification ECU connector.
- Measure the voltage and resistance of the wire harness side connector.

Standard:

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
Q4-1 (+B) - Body ground	W-R - Body ground	Battery	Always	11 to 14 V
Q4-3 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
Q4-7 (IG) - Body ground	B-O - Body ground	Ignition switch signal	Ignition switch OFF \rightarrow ON	Below 1 V \rightarrow 11 to 14 V

If the result is not as specified, there may be a malfunction in the wire harness.

- Reconnect the occupant classification ECU connector.
- Measure the resistance of the wire harness side connector.

Standard:

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
Q4-4 (FSR-) - Q4-3 (GND)	B - W-B	Center airbag sensor assembly communication line (-)	Always	Below 1 Ω
Q4-5 (BGND) - Q4-3 (GND)	GR - W-B	Passenger side buckle switch ground line	Always	Below 1 Ω

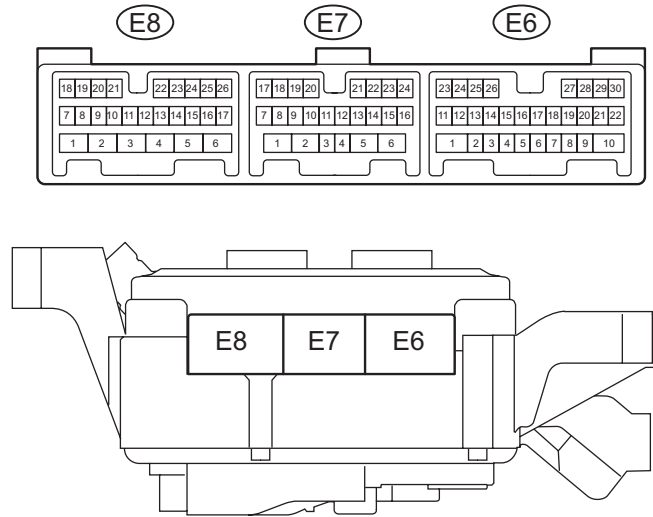
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
Q4-8 (FSR+) - Q4-4 (FSR-)	W - B	Center airbag sensor assembly communication line	Ignition switch ON	Pulse generation
Q4-9 (BSW) - Q4-5 (BGND)	L - GR	Passenger side buckle switch line	Buckle switch ON Buckle switch OFF	Pulse generation

If the result is not as specified, there may be a malfunction in the wire harness.

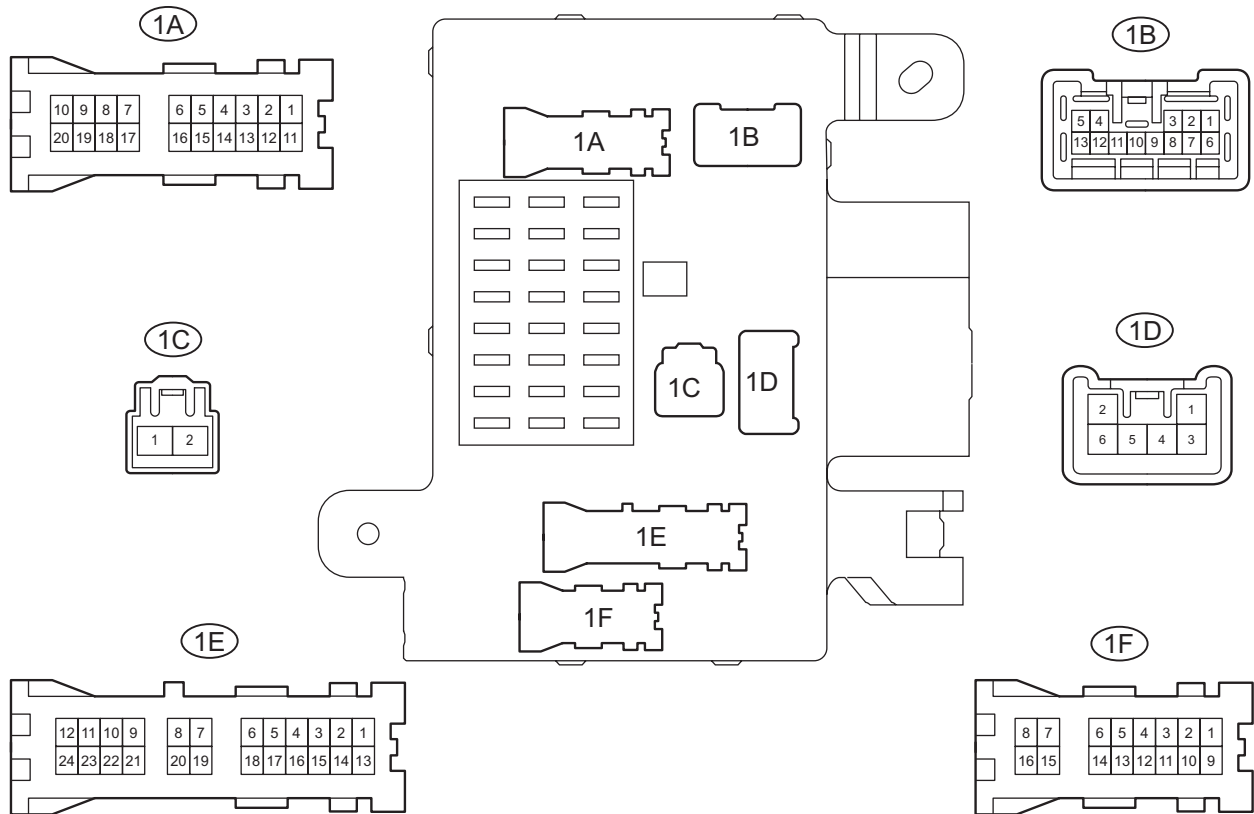
4. MAIN BODY ECU (Driver Side J/B)

Main Body ECU (Driver Side J/B):

Left View:

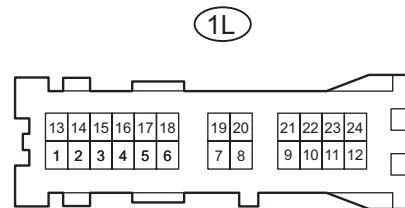
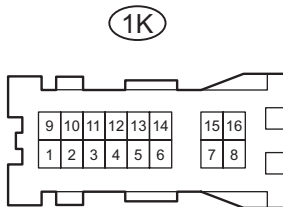
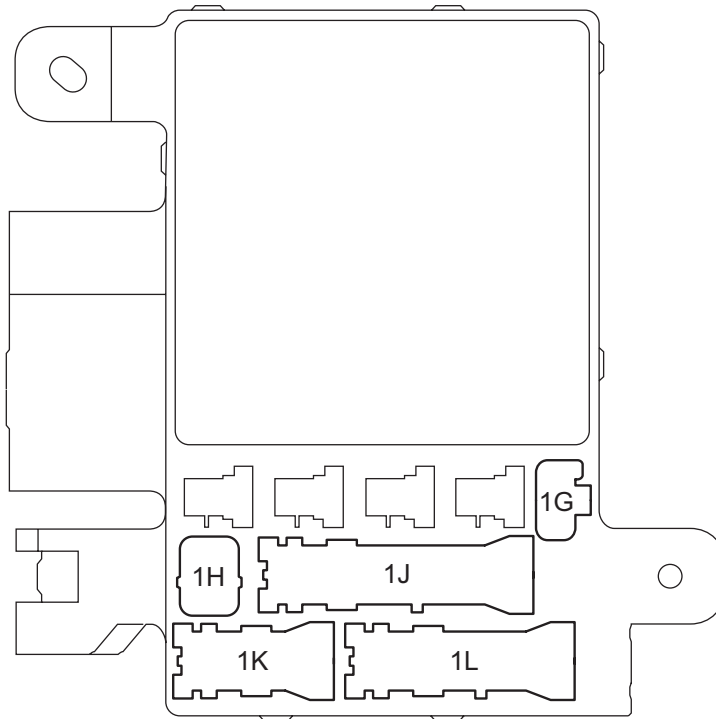
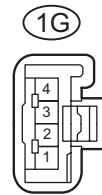
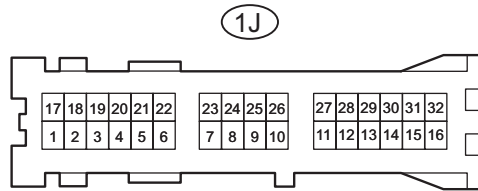
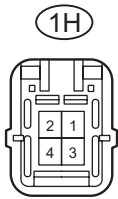


Rear View:



Main Body ECU (Driver Side J/B):

Front View:



SB

Y

B136052E03

(a) Disconnect the 1A, 1B and 1H main body ECU (driver side J/B) connectors.