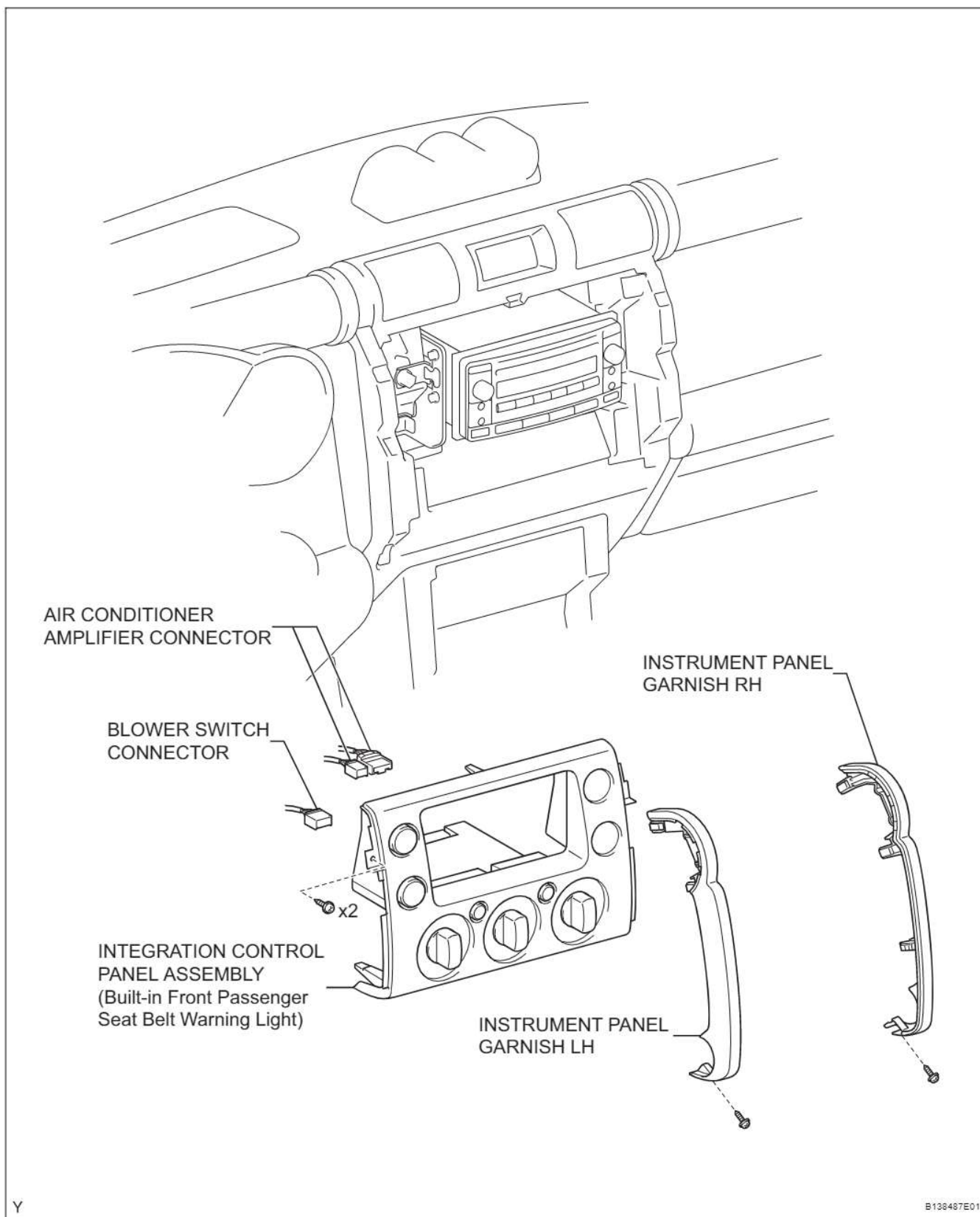


SEAT BELT – FRONT PASSENGER SEAT BELT WARNING LIGHT

SB-1

FRONT PASSENGER SEAT BELT WARNING LIGHT COMPONENTS



SB

SB-2

SEAT BELT – FRONT PASSENGER SEAT BELT WARNING LIGHT

REMOVAL

1.

DISCONNECT CABLE FROM NEGATIVE BATTERY
TERMINAL
2.

REMOVE INSTRUMENT PANEL GARNISH RH (See
page IP-10)
3.

REMOVE INSTRUMENT PANEL GARNISH LH (See
page IP-10)
4.

REMOVE INTEGRATION CONTROL PANEL
ASSEMBLY (Built-in Front Passenger Seat Belt
Warning Light)

(a)

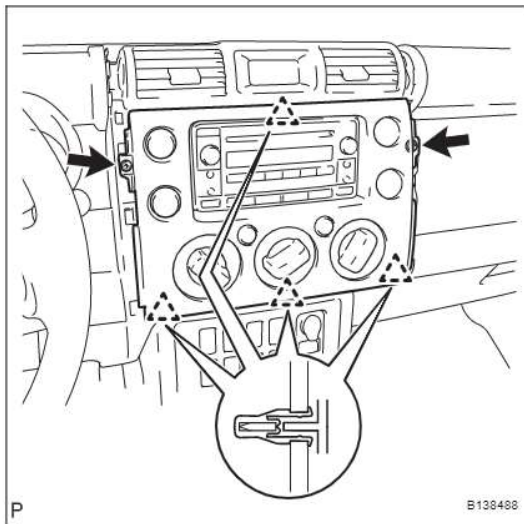
Remove the 2 screws.

(b)

Disengage the 4 clips and remove the front
passenger seat belt warning light.

(c)

Disconnect the 2 air conditioner amplifier
connectors and the blower switch connector.



INSPECTION

1.

INSPECT INTEGRATION CONTROL PANEL
ASSEMBLY (Built-in Front Passenger Seat Belt
Warning Light)

(a)

Check the operation.

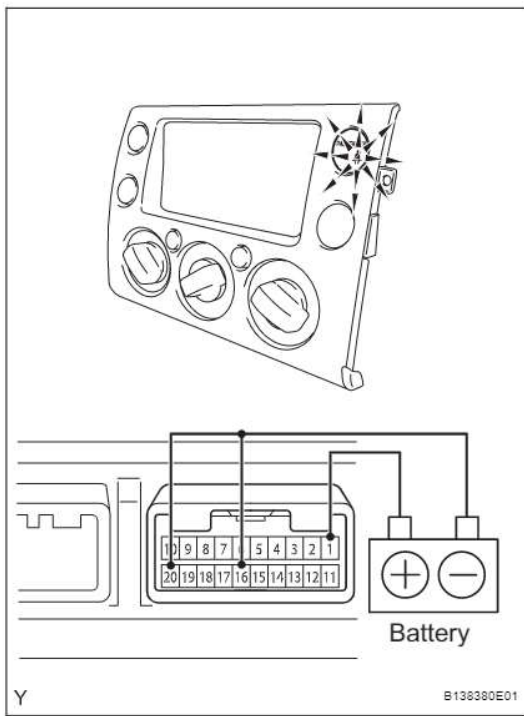
(1)

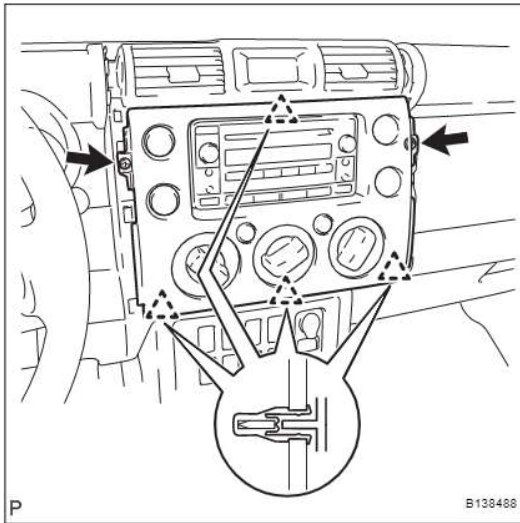
Apply battery voltage to the terminals and
check that the indicator illuminates.

Standard

Condition	Standard
Positive battery - Terminal 1 (IG+)	Illuminates
Negative battery - Terminal 16 (PBEW) and 20 (GND)	

If the result is not as specified, replace the integration control panel..



SEAT BELT – FRONT PASSENGER SEAT BELT WARNING LIGHT**SB-3****INSTALLATION**

1. **INSTALL INTEGRATION CONTROL PANEL ASSEMBLY (Built-in Front Passenger Seat Belt Warning Light)**
 - (a) Connect the blower switch connector and the 2 air conditioner amplifier connectors.
 - (b) Engage the 4 clips and install the front passenger seat belt warning light.
 - (c) Tighten the 2 screws.
2. **INSTALL INSTRUMENT PANEL GARNISH RH (See page [IP-33](#))**
3. **INSTALL INSTRUMENT PANEL GARNISH LH (See page [IP-33](#))**
4. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

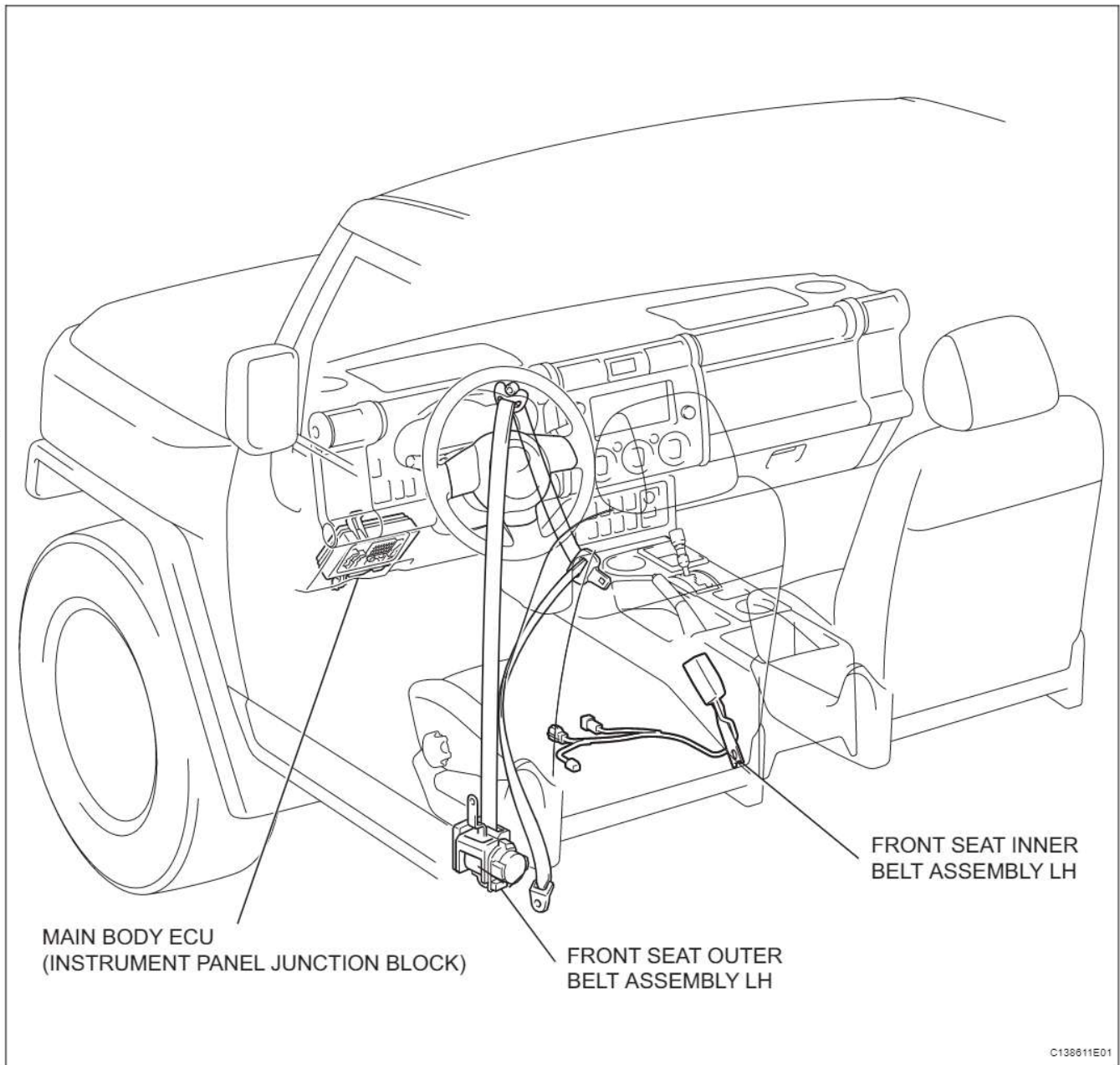
SB

SB-4

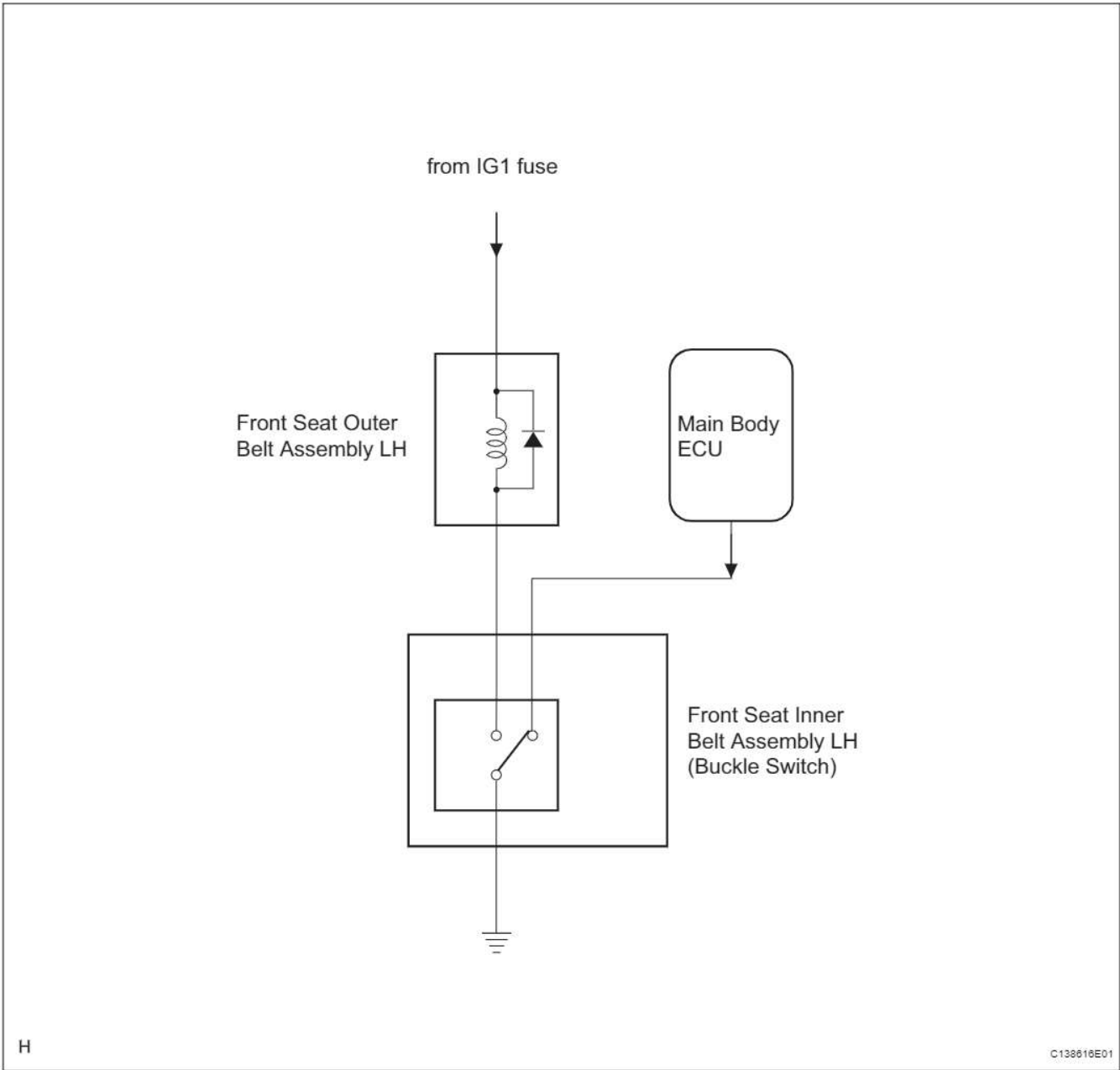
SEAT BELT – SEAT BELT TENSION REDUCER

SEAT BELT TENSION REDUCER

PARTS LOCATION



SYSTEM DIAGRAM



SB

SB-6**SEAT BELT – SEAT BELT TENSION REDUCER**

SYSTEM DESCRIPTION

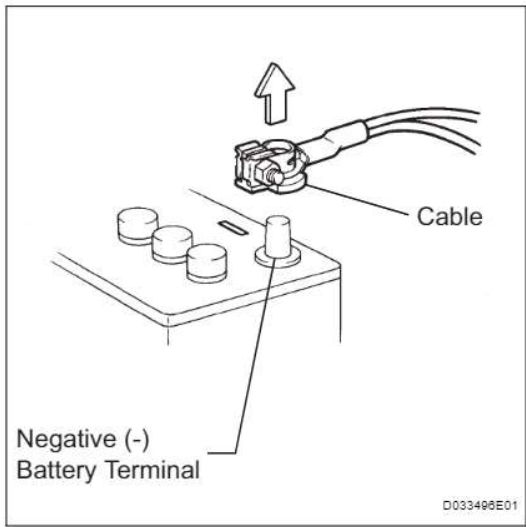
The seat belt tension reducer is fitted to the front seat belt LH. This mechanism can help reduce the belt tension applied to the occupant in the front seat when the seat belt is fastened.

SB

PROBLEM SYMPTOMS TABLE

Seat Belt Tension Reducer

Symptom	Suspected area	See page
Driver side tension reducer does not operate	1. Front seat inner belt assembly (Driver side)	SB-32
	2. Front seat outer belt assembly (Driver side)	SB-38
	3. Wire harness	-



SEAT BELT WARNING SYSTEM

PRECAUTION

1. DISCONNECT AND RECONNECT CABLE OF NEGATIVE BATTERY TERMINAL
- (a)

Before performing electronic work, disconnect the cable from the negative (-) battery terminal in order to prevent it from shorting and burning out.
- (b)

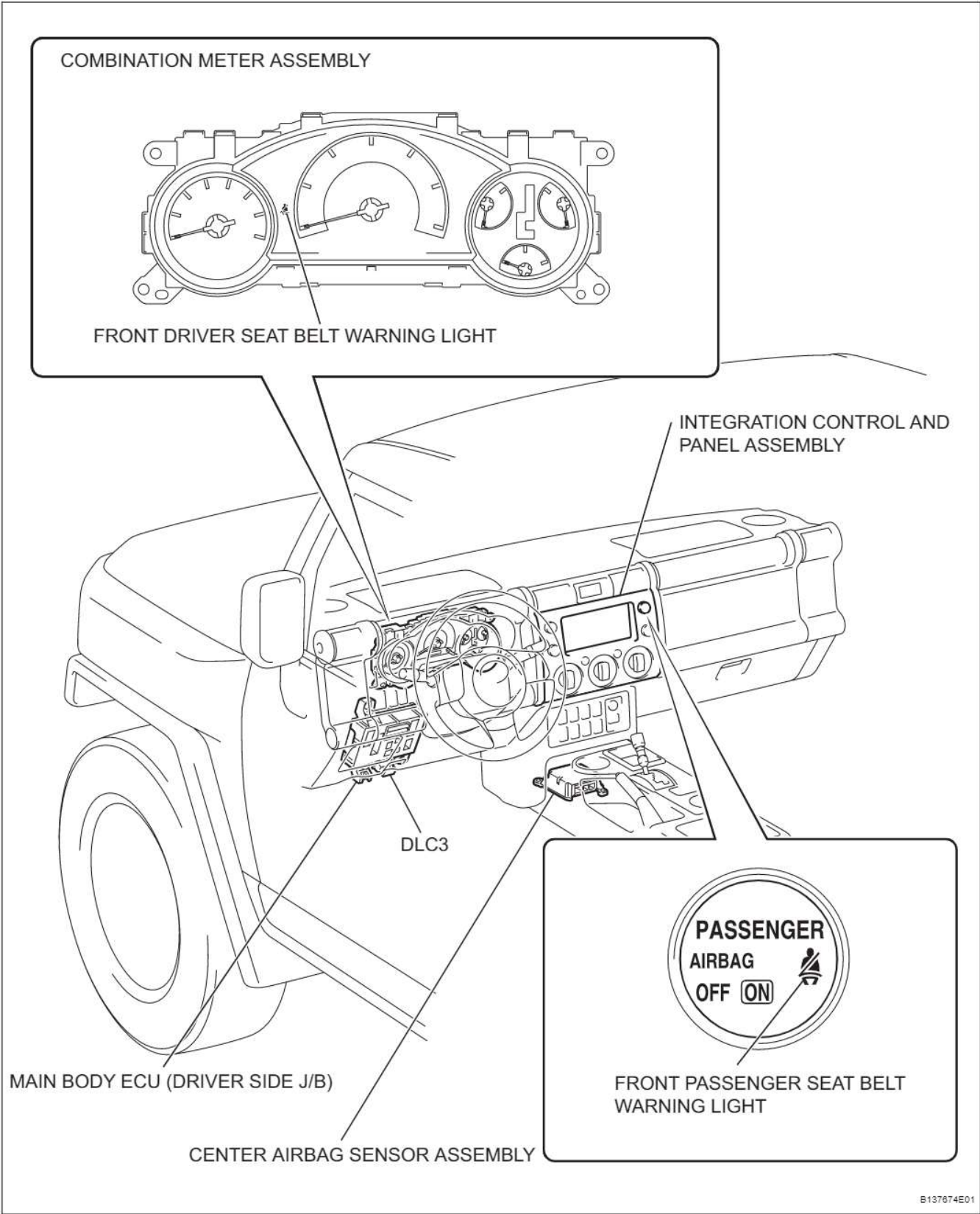
When disconnecting and reconnecting the battery cable, turn the ignition switch OFF and headlight dimmer switch OFF. Then loosen the terminal nut completely. Be careful not to damage the cable or terminal.
- (c)

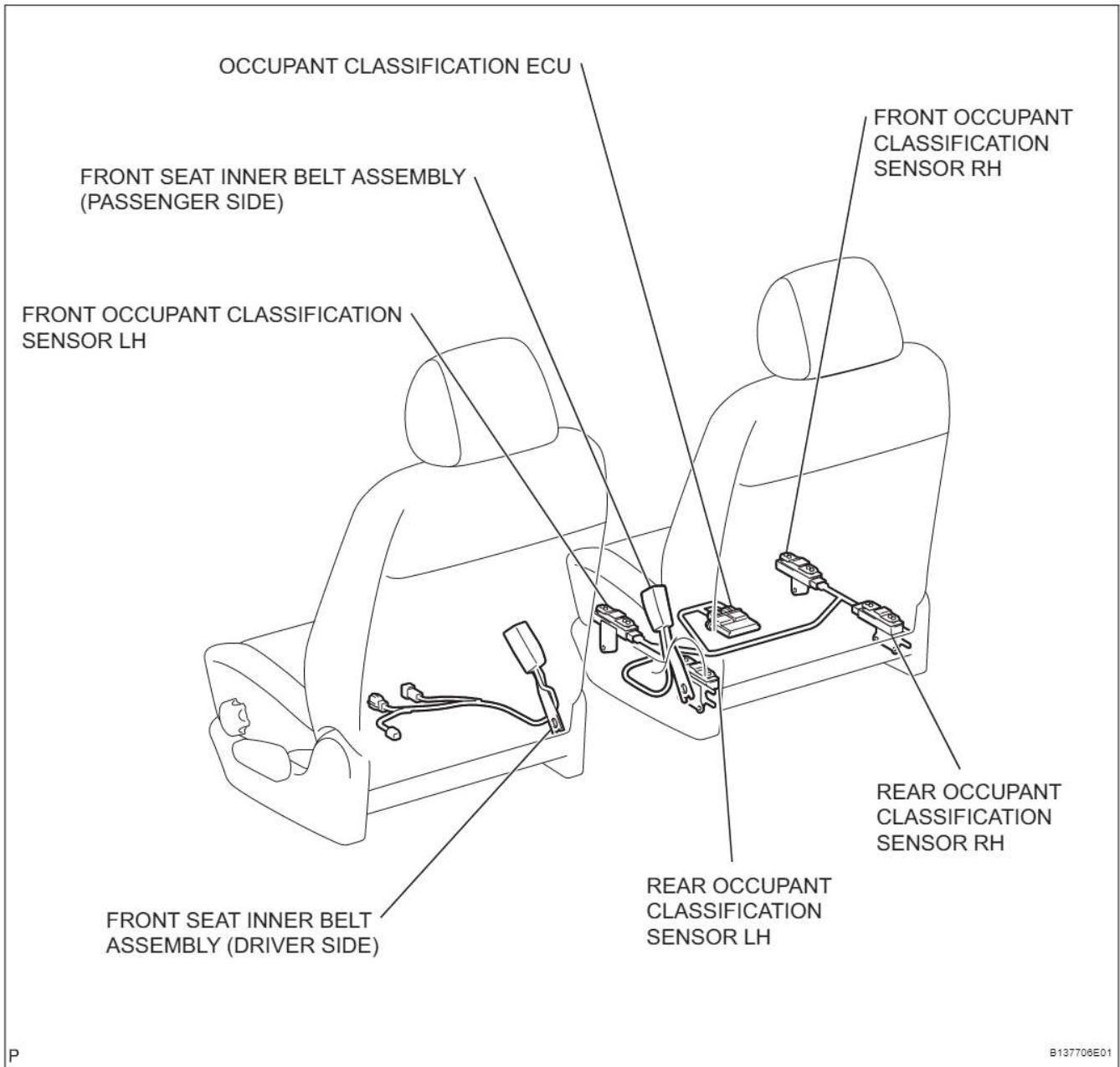
When the battery cable is disconnected, the settings of the clock and radio, memory of DTCs, etc. are erased. Before disconnecting the battery cable, take notes of the settings and memory.

NOTICE:
When disconnecting the cable from the negative (-) battery terminal, initialize the following system(s) after the cable is reconnected.

System Name	See procedure
Meter / gauge system	See page ME-10

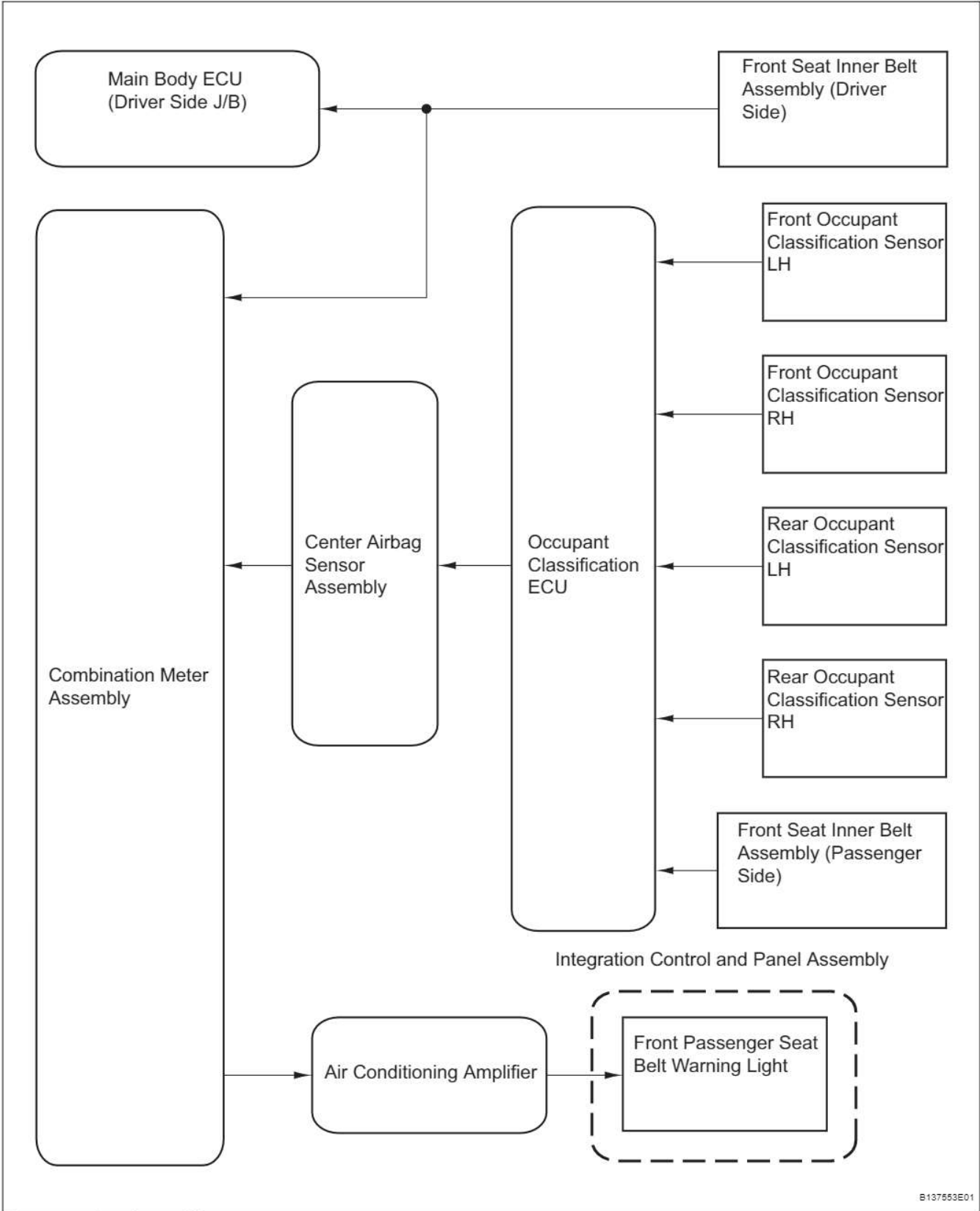
PARTS LOCATION



SB-8**SEAT BELT – SEAT BELT WARNING SYSTEM**

SYSTEM DIAGRAM

SB



Communication table:

Sender	Receiver	Signal	Line
Center airbag sensor assembly	Combination meter assembly	Front seat inner belt switch signal (passenger side)	CAN communication line

SB-10**SEAT BELT – SEAT BELT WARNING SYSTEM****SYSTEM DESCRIPTION****1. SEAT BELT WARNING SYSTEM DESCRIPTION**

If a seat belt is not fastened, this system flashes the seat belt warning light and sounds the seat belt warning buzzer as a reminder.

2. FUNCTIONS OF MAIN COMPONENTS

Components	Function
Front Seat Inner Belt Assembly (Driver Side)	Informs combination meter assembly of driver seat belt condition (fastened or unfastened)
Front Seat Inner Belt Assembly (Passenger Side)	Informs occupant classification ECU of front passenger seat belt condition (fastened or unfastened)
Occupant Classification ECU	Informs center airbag sensor assembly of front passenger seat condition (occupied or unoccupied) Informs center airbag sensor assembly of front passenger seat belt condition (fastened or unfastened)
Occupant Classification Sensor	Informs occupant classification ECU of front passenger seat condition
Center Airbag Sensor Assembly	Informs combination meter assembly of front passenger seat belt condition (fastened or unfastened)
Combination Meter Assembly	The combination meter assembly transmits the passenger seat belt warning light signal to the integration control and panel assembly through the air conditioning amplifier.
Front Driver Seat Belt Warning Light	If driver seat belt is unfastened and ignition switch is ON, combination meter assembly flashes seat belt warning light of combination meter assembly as reminder
Front Passenger Seat Belt Warning Light	When front passenger seat is occupied and ignition switch is ON, if passenger seat belt is unfastened, combination meter assembly flashes seat belt warning light of integration control and panel assembly as reminder
Seat Belt Warning Buzzer for Driver Side and Passenger Side	If driver or passenger seat belt is unfastened and ignition switch is ON combination meter assembly sounds buzzer as reminder

3. SYSTEM OPERATION

- When the ignition switch is ON, this system detects the condition of the seat belts based on signals from the front seat inner belt switches (for driver and front passenger seats) and the occupant classification sensor (front passenger side only).

SB

SEAT BELT – SEAT BELT WARNING SYSTEM

SB-11

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use these procedures to troubleshoot the seat belt warning system.

1 VEHICLE BROUGHT TO WORKSHOP

NEXT

2 INSPECT BATTERY VOLTAGE

Standard voltage:

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.

NEXT

3 PROBLEM SYMPTOMS TABLE

Result:

Result	Proceed to
Fault is not listed in problem symptoms table	A
Fault is listed in problem symptoms table	B

B

GO TO STEP 5

A

4 OVERALL ANALYSIS AND TROUBLESHOOTING

(a) DATA LIST / ACTIVE TEST (see page [SB-20](#))(b) Terminals of ECU (see page [SB-12](#))

NEXT

5 REPAIR OR REPLACE

NEXT

SB

SB-12

SEAT BELT – SEAT BELT WARNING SYSTEM

6	CONFIRMATION TEST
----------	--------------------------

NEXT

END

SB

SEAT BELT – SEAT BELT WARNING SYSTEM**SB-13****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	-
	Integration control and panel assembly (Front passenger seat belt warning light)	SB-2
Seat belt warning buzzer does not sound (Front driver and front passenger seat belt warning lights operate normally)	Combination meter assembly	ME-15

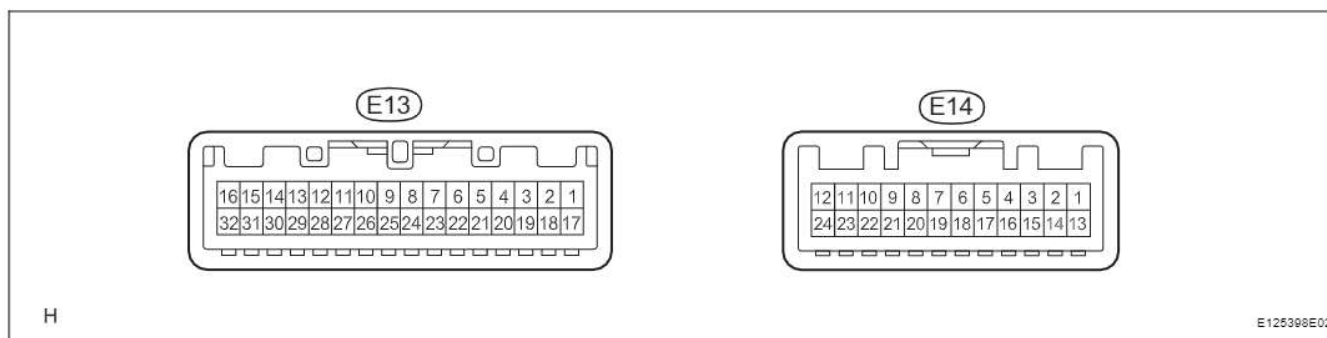
SB

SB-14

SEAT BELT – SEAT BELT WARNING SYSTEM

TERMINALS OF ECU

1. COMBINATION METER ASSEMBLY



- Disconnect the E13 combination meter assembly connector.
- 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

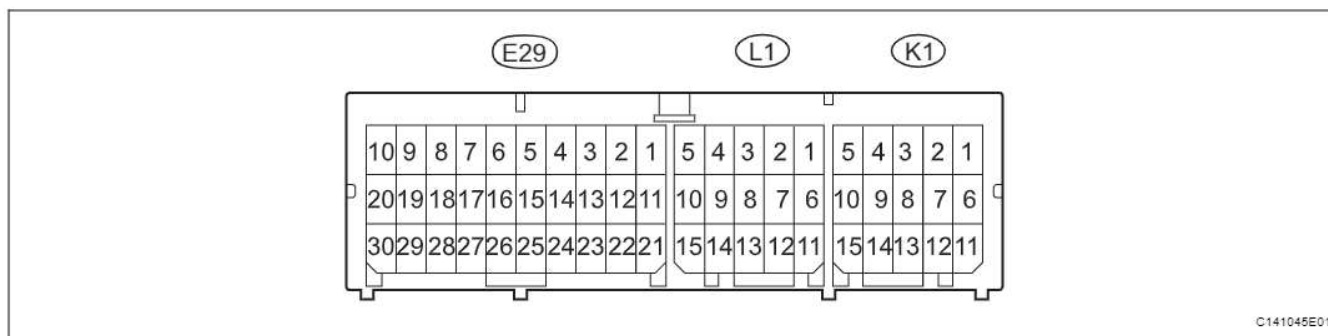
If the result is not as specified, there may be a malfunction in the wire harness.

- Reconnect the combination meter assembly connector.
- Measure the voltage of the wire harness side connector.

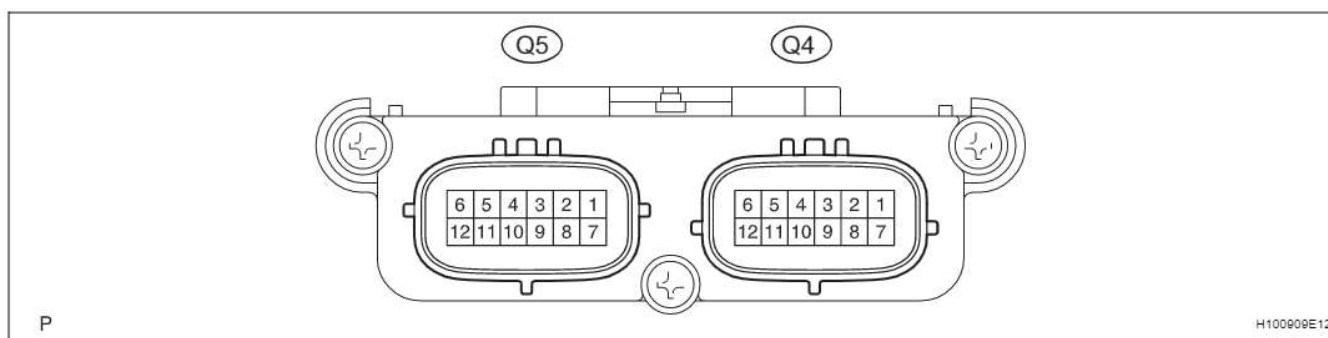
Standard:

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.

SEAT BELT – SEAT BELT WARNING SYSTEM**SB-15****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

SB-16

SEAT BELT – SEAT BELT WARNING SYSTEM

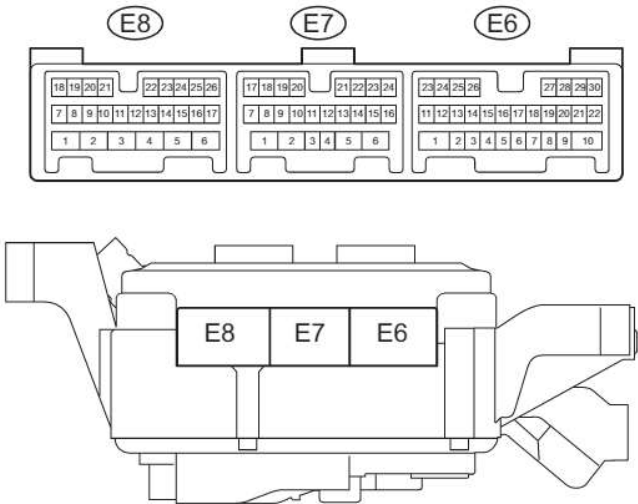
Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
Q4-8 (FSR+) - Q4-4 (FSR-)	W - B	Center airbag sensor assembly communication line	Ignition switch ON	Pulse generation
Q4-9 (BSW) - Q4-5 (BGND)	L - GR	Passenger side buckle switch line	Buckle switch ON Buckle switch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

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

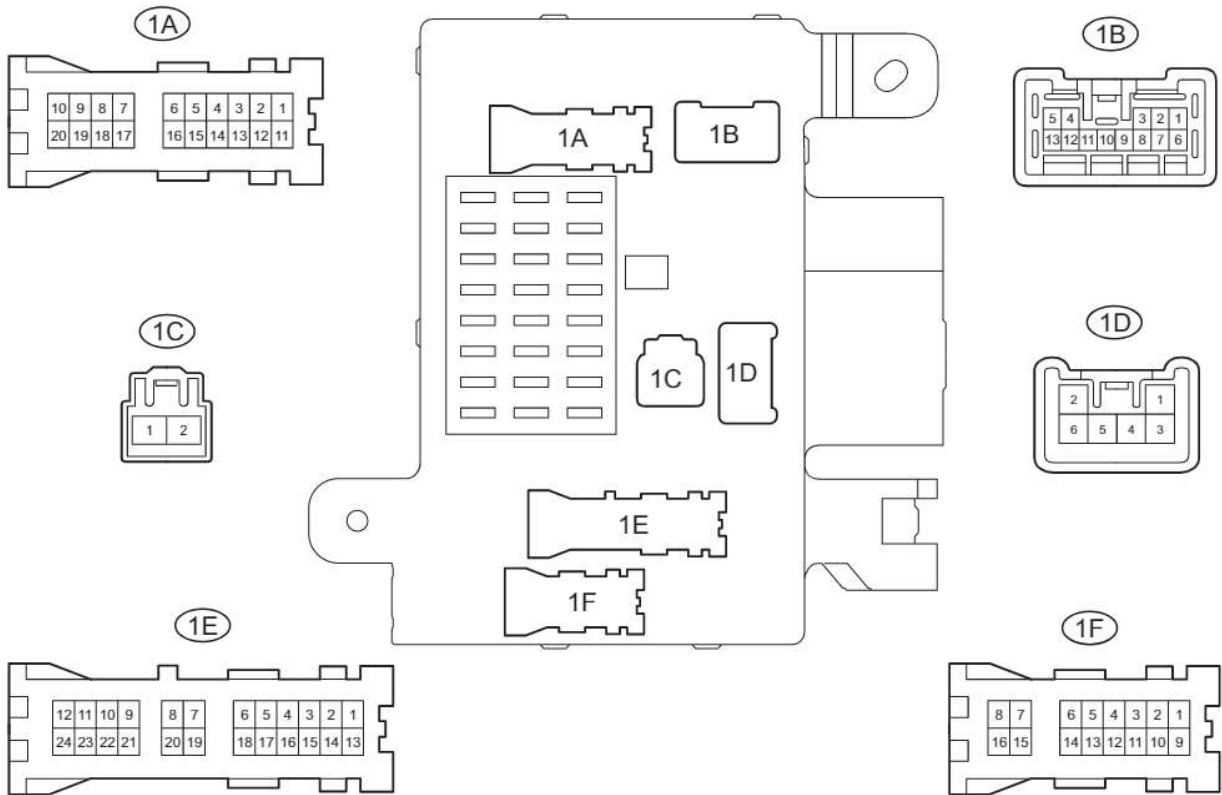
4. MAIN BODY ECU (Driver Side J/B)

Main Body ECU (Driver Side J/B):

Left View:



Rear View:



Y

B138051E03

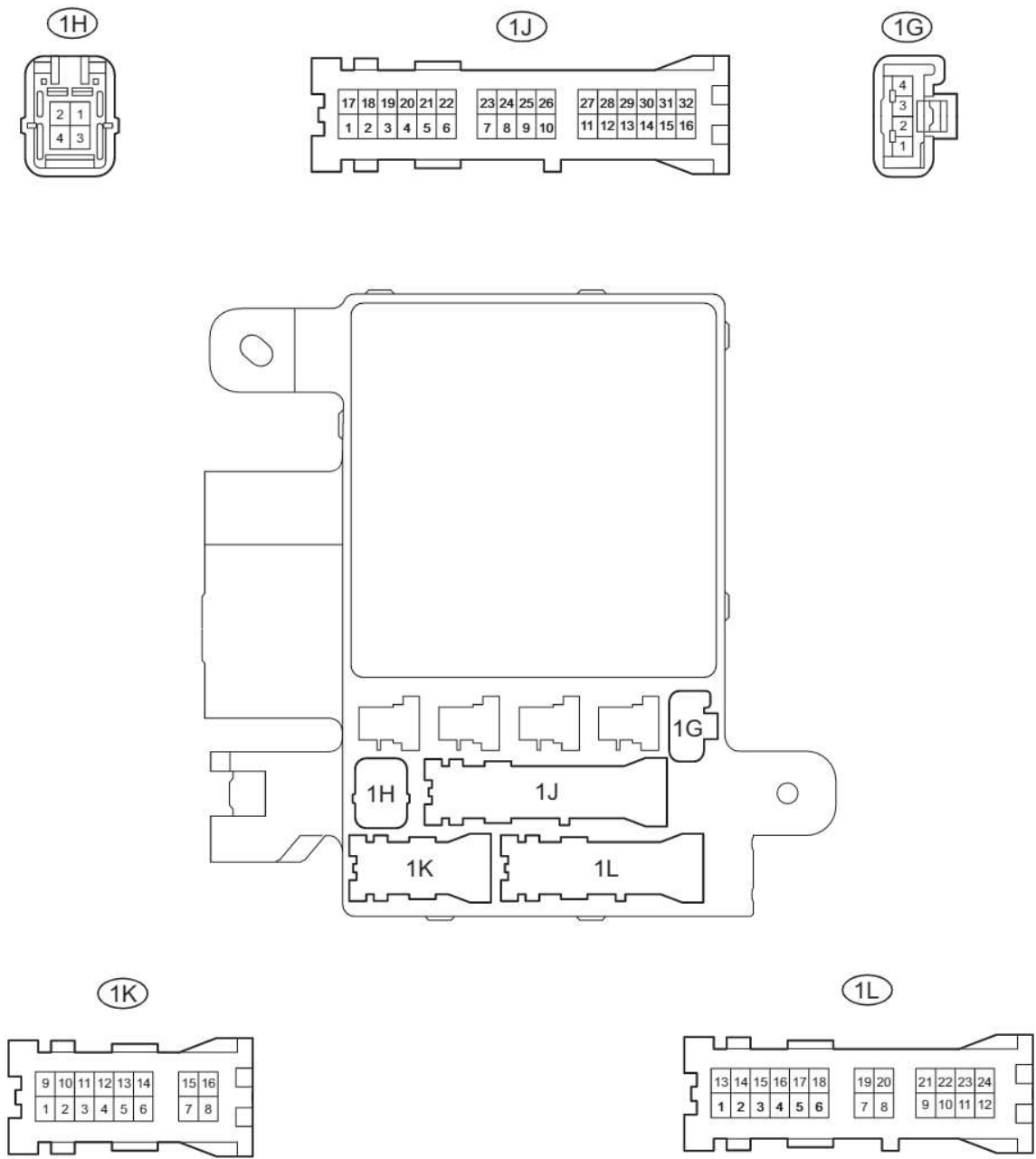
SB

SB-18

SEAT BELT – SEAT BELT WARNING SYSTEM

Main Body ECU (Driver Side J/B):

Front View:



Y

B138052E03

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

SEAT BELT – SEAT BELT WARNING SYSTEM**SB-19**

- (b) Measure the voltage and resistance of the wire harness side connectors.

Standard:

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
1B-4 (BECU) Body ground	W-R - Body ground	Power source circuit (From battery)	Always	11 to 14 V
1H-2 (GND1) - Body Ground	W-B - Body ground	Ground	Always	Below 1V
1A-7 (GND2) - Body ground	W - 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 main body ECU (driver side J/B) connectors.
 (d) Measure the voltage of the wire harness side connectors.

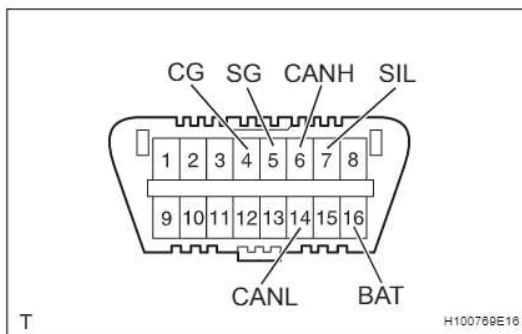
Standard voltage:

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
1F-8 (SIG) - Body ground	B-R - Body ground	Ignition switch signal	Ignition switch OFF → ON	Below 1V → 11 to 14V
E6-13 (DBKL) - 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
E6-13 (DBKL) - 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)	11 to 14 V

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

DIAGNOSIS SYSTEM**1. CHECK DLC3**

- (a) The ECU uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with ISO SAE J1962 and matches the ISO 15765-4 format.



Symbols (Terminal No.)	Terminal Description	Condition	Specified Condition
SIL (7) - SG (5)	Bus "+" line	During transmission	Pulse generation
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	11 to 14 V
CANH (6) - CANL (14)	CAN bus line	Ignition switch OFF*	54 to 69 Ω
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch OFF*	200 Ω or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch OFF*	200 Ω or higher
CANH (6) - BAT (16)	HIGH-level CAN bus line	Ignition switch OFF*	6 kΩ or higher
CANL (14) - BAT (16)	LOW-level CAN bus line	Ignition switch OFF*	6 kΩ or higher

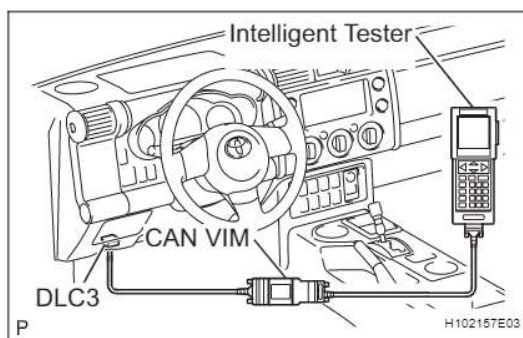
NOTICE:

***: Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the ignition switch, any other switches or the doors.**

SB-20

SEAT BELT – SEAT BELT WARNING SYSTEM

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

**HINT:**

Connect the cable of the intelligent tester to the CAN VIM, connect the CAN VIM to the DLC3, turn the ignition switch ON and attempt to use the tester. If the display indicates that a communication error has occurred, there is a problem either with the vehicle or with the tester.

- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 of the original vehicle.
- If communication is still not possible when the tester is connected to another vehicle, the problem is probably in the tester itself. Consult the Service Department listed in the tester's instruction manual.

2. INSPECT BATTERY VOLTAGE

Standard voltage:

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.

3. INSPECT FRONT DRIVER SEAT BELT WARNING LIGHT

- Turn the ignition switch ON.
- When the driver seat belt is not fastened, check that the combination meter assembly driver seat belt warning light blinks.
- When the seat belt is fastened, check that the combination meter assembly driver seat belt warning light turns off.

4. INSPECT FRONT PASSENGER SEAT BELT WARNING LIGHT

- Turn the ignition switch ON.
- When the front passenger seat is occupied, but the seat belt is not fastened, check that the front passenger seat belt warning light on the integration control and panel assembly blinks.
- When the front passenger seat belt is fastened, check that the front passenger seat belt warning light turns off.

5. INSPECT SEAT BELT WARNING BUZZER USING DRIVER SEAT BELT

- Turn the ignition switch ON.
- When the driver seat belt is not fastened within 1.8 seconds of the ignition switch being turned ON, check that the seat belt warning buzzer sounds at 1.2 second intervals for 6 seconds.
- When the driver seat belt is not fastened within 13.8 seconds of the ignition switch being turned ON and the vehicle speed reaches 12.4 mph (20 km/h) or more, check that the buzzer sounds at 1.2 second intervals for 9.6 seconds.
- After the buzzer has sounded for 9.6 seconds, check that the buzzer sounds at 0.4 second intervals for a further 20 seconds.

SB

SEAT BELT – SEAT BELT WARNING SYSTEM**SB-21**

- (e) When 29.6 seconds have elapsed since the buzzer started sounding in step (c) above, check that the buzzer stops sounding.
- (f) After the buzzer has stopped sounding, turn the ignition switch OFF and then start the engine again. With the driver seat belt unfastened, drive the vehicle at 12.4 mph (20 km/h) or more. Check that the buzzer sounds.
- (g) After the buzzer has stopped sounding, fasten the driver seat belt, drive the vehicle at 12.4 mph (20 km/h) or more, and then unfasten the seat belt. Check that the buzzer sounds.
- (h) After the buzzer has stopped sounding, move the shift lever to R. Then move the shift lever to D (for A/T only). With the driver seat belt unfastened, drive the vehicle at 12.4 mph (20km/h) or more. Check that the buzzer sounds.

6. INSPECT SEAT BELT WARNING BUZZER USING FRONT PASSENGER SEAT BELT**HINT:**

If the following inspection is conducted by one person, since the front passenger seat belt warning buzzer function uses signals from the occupant classification sensors, place an object with a weight of 36 kg (79.37 lb) or more on the front passenger seat.

- (a) Turn the ignition switch ON.
- (b) When the front passenger seat belt is not fastened within 1.8 seconds of the ignition switch being turned ON, check that the seat belt warning buzzer sounds at 1.2 second intervals for 6 seconds.
- (c) When the front passenger seat belt is not fastened within 13.8 seconds of the ignition switch being turned ON and the vehicle speed reaches 12.4 mph (20 km/h) or more, check that the buzzer sounds at 1.2 second intervals for 9.6 seconds.
- (d) After the buzzer has sounded for 9.6 seconds, check that the buzzer sounds at 0.4 second intervals for a further 20 seconds.
- (e) When 29.6 seconds have elapsed since the buzzer started sounding in step (c) above, check that the buzzer stops sounding.
- (f) After the buzzer has stopped sounding, turn the ignition switch OFF and then start the engine again. With the front passenger seat belt unfastened, drive the vehicle at 12.4 mph (20 km/h) or more. Check that the buzzer sounds.
- (g) After the buzzer has stopped sounding, fasten the front passenger seat belt, drive the vehicle at 12.4 mph (20 km/h) or more, and then unfasten the front passenger seat belt. Check that the buzzer sounds.

SB

SB-22**SEAT BELT – SEAT BELT WARNING SYSTEM**

- (h) After the buzzer has stopped sounding, move the shift lever to R. Then move the shift lever to D. With the front passenger seat belt unfastened, drive the vehicle at 12.4 mph (20km/h) or more. Check that the buzzer sounds.

SB

SEAT BELT – SEAT BELT WARNING SYSTEM

SB-23

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

By accessing the DATA LIST using the intelligent tester, values of the switches and sensors can be read without removing any parts. Reading the DATA LIST is the first step of troubleshooting and is one method of shortening labor time.

- (a) Connect the intelligent tester with the CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Enter the DATA LIST by following the prompts displayed on the tester screen.

Center Airbag Sensor Assembly

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
D BUCKLE SW	Buckle switch (Driver side)/ UNSET: Seat belt not fastened SET: Seat belt fastened NG: Data not determined	UNSET/SET	-
P BUCKLE SW	Buckle switch (Front passenger side)/ UNSET: Seat belt not fastened SET: Seat belt fastened NG: Data not determined	UNSET/SET	-
PASSENGER CLASS	Front passenger classification/ NG: Data is not determined OFF: Vacant CHILD: Child (Less than 36 kg [79.37 lb]) seated AF05: Adult (36 to 54 kg [79.37 to 119.05 lb]) seated AM50: Adult (More than 54 kg [119.05 lb]) seated FAIL: Failure detected	NG/OFF/CHILD/AF05/AM50/ FAIL	-

SB

Occupant Classification ECU

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
P BUCKLE SW	Buckle switch (Front passenger side)/ UNSET: Front passenger side seat belt is unfastened SET: Front passenger side seat belt is fastened NG: Front passenger side seat belt is malfunctioning	UNSET/SET	-
PASSENGER CLASS	Front passenger classification/ AM50: Adult (more than 54 kg (119.05 lb)) is seated AF05: Adult (36 to 54 kg (79.37 to 119.05 lb)) is seated CHILD: Child (less than 36 kg (79.37 lb)) is seated CRS: Child restraint system (less than 7 kg (15.43 lb)) and front passenger side buckle switch ON, then 7 to 36 kg (15.43 to 79.37 lb) is set OFF: Vacant	AF05/AM50/CHILD/CRS/OFF	-

SB-24

SEAT BELT – SEAT BELT WARNING SYSTEM

Main Body ECU (Driver Side J/B)

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
D SEAT BUCKL SW	Buckle switch (Driver side)/ ON: Seat belt fastened OFF: Seat belt not fastened	ON/OFF	-

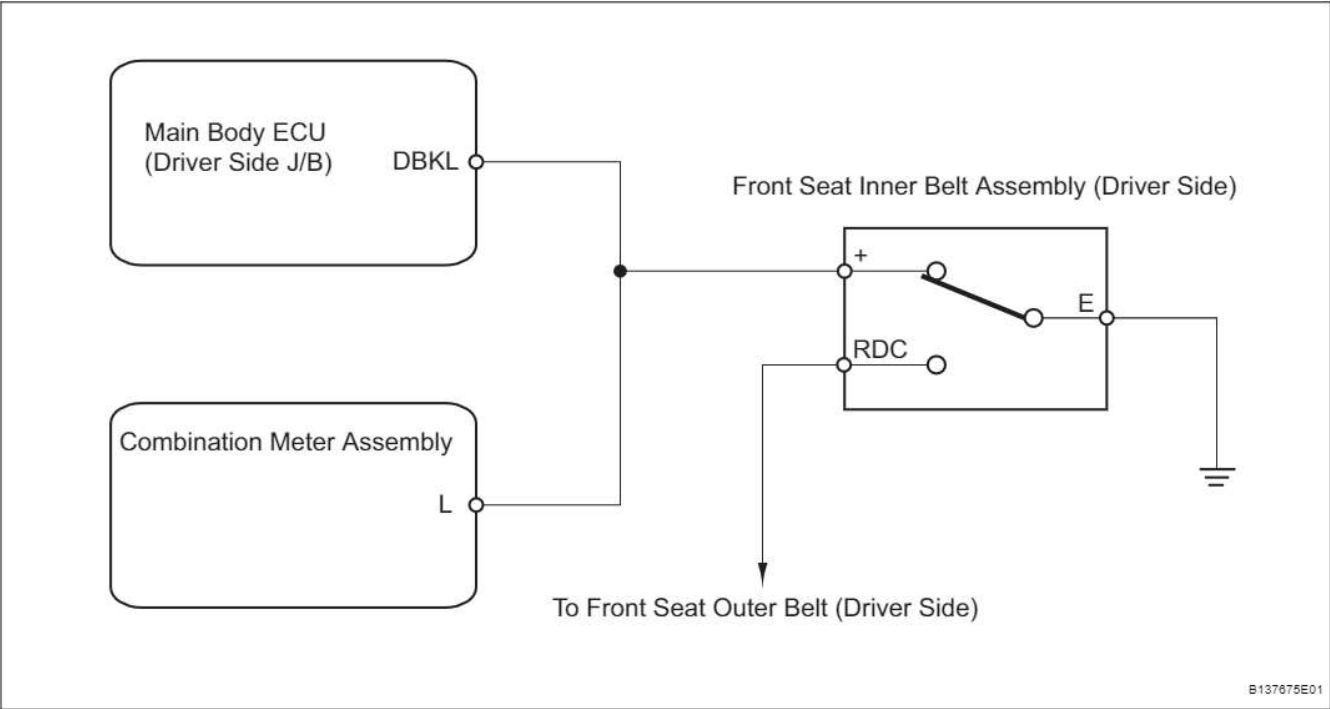
SB

Driver Side Seat Belt Warning Light does not Operate

DESCRIPTION

When the ignition switch is ON, the combination meter assembly receives signals from the front seat inner belt assembly (driver side). When the seat belt is unfastened, the combination meter assembly flashes the driver seat belt warning light in the combination meter assembly. When the seat belt is fastened, the combination meter assembly stops flashing the front driver seat belt warning light.

WIRING DIAGRAM



INSPECTION PROCEDURE

1

READ VALUE OF INTELLIGENT TESTER (D SEAT BUCKL SW)

- (a) Connect the intelligent tester with the CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Enter the following menus: OBD/MOBD / BODY / DATA LIST

Main Body ECU (Driver Side J/B)

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
D SEAT BUCKL SW	Buckle switch (Driver side)/ ON: Seat belt fastened OFF: Seat belt not fastened	ON/OFF	-

OK:
Front seat inner belt assembly (driver side)
operates normally.

NG

Go to step 3

SB-26

SEAT BELT – SEAT BELT WARNING SYSTEM

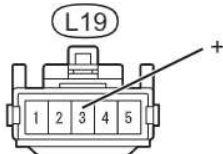
OK

2

CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - FRONT SEAT INNER BELT ASSEMBLY)

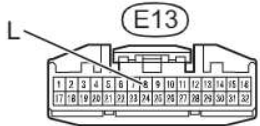
Wire Haeness Side:

Front Seat Inner Belt Assembly
(Driver Side) Connector



Front View

Combination Meter Assembly Connector



Front View

B137078E01

- (a) Disconnect the E13 combination meter assembly connector.
- (b) Disconnect the L19 front seat inner belt assembly (driver side) connector.
- (c) Measure the resistance.
Standard resistance
- | Tester Connection | Specified Condition |
|--------------------------------------|---------------------|
| E13-8 (L) - L19-3 (+) | Below 1 Ω |
| E13-8 (L) or L19-3 (+) - Body ground | 10 kΩ or higher |
- (d) Reconnect the combination meter assembly connector.
- (e) Reconnect the front seat inner belt assembly (driver side) connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

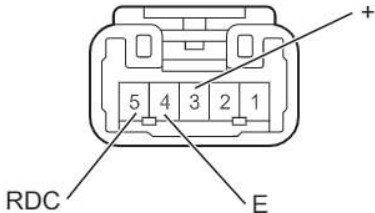
REPLACE COMBINATION METER ASSEMBLY

3

INSPECT FRONT SEAT INNER BELT ASSEMBLY (DRIVER SIDE)

Component Side:

Front Seat Inner Belt Assembly
(Driver Side) Connector



H

B137709E02

- (a) Disconnect the L19 front seat inner belt assembly (driver side) connector.
- (b) Measure the resistance.
Standard resistance
- | Tester Connection | Condition | Specified Condition |
|-------------------|-------------------------|---------------------|
| + - E | Tongue plate fastened | 10 kΩ or higher |
| RDC - E | Tongue plate unfastened | Below 1 Ω |
| + - E | Tongue plate unfastened | Below 1 Ω |
| RDC - E | Tongue plate fastened | 10 kΩ or higher |
- (c) Reconnect the front seat inner belt assembly (driver side) connector.

NG

REPLACE FRONT SEAT INNER BELT ASSEMBLY (DRIVER SIDE)

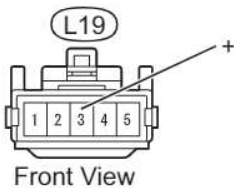
OK

4

CHECK HARNESS AND CONNECTOR (MAIN BODY ECU - FRONT SEAT INNER BELT ASSEMBLY)

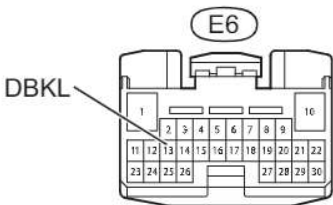
Wire Harness Side:

Front Seat Inner Belt Assembly
(Driver Side) Connector



Front View

Main Body ECU (Driver Side J/B) Connector



Front View

B137679E01

- (a) Disconnect the E6 main body ECU (driver side J/B) connector.
- (b) Disconnect the L19 front seat inner belt assembly (driver side) connector.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E6-13 (DBKL) - L19-3 (+)	Below 1 Ω
E6-13 (DBKL) or L19-3 (+) - Body ground	10 kΩ or higher

- (d) Reconnect the main body ECU (driver side J/B) connector.
- (e) Reconnect the front seat inner belt assembly (driver side) connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (FRONT SEAT INNER BELT ASSEMBLY - BODY GROUND)

SB

SB-28

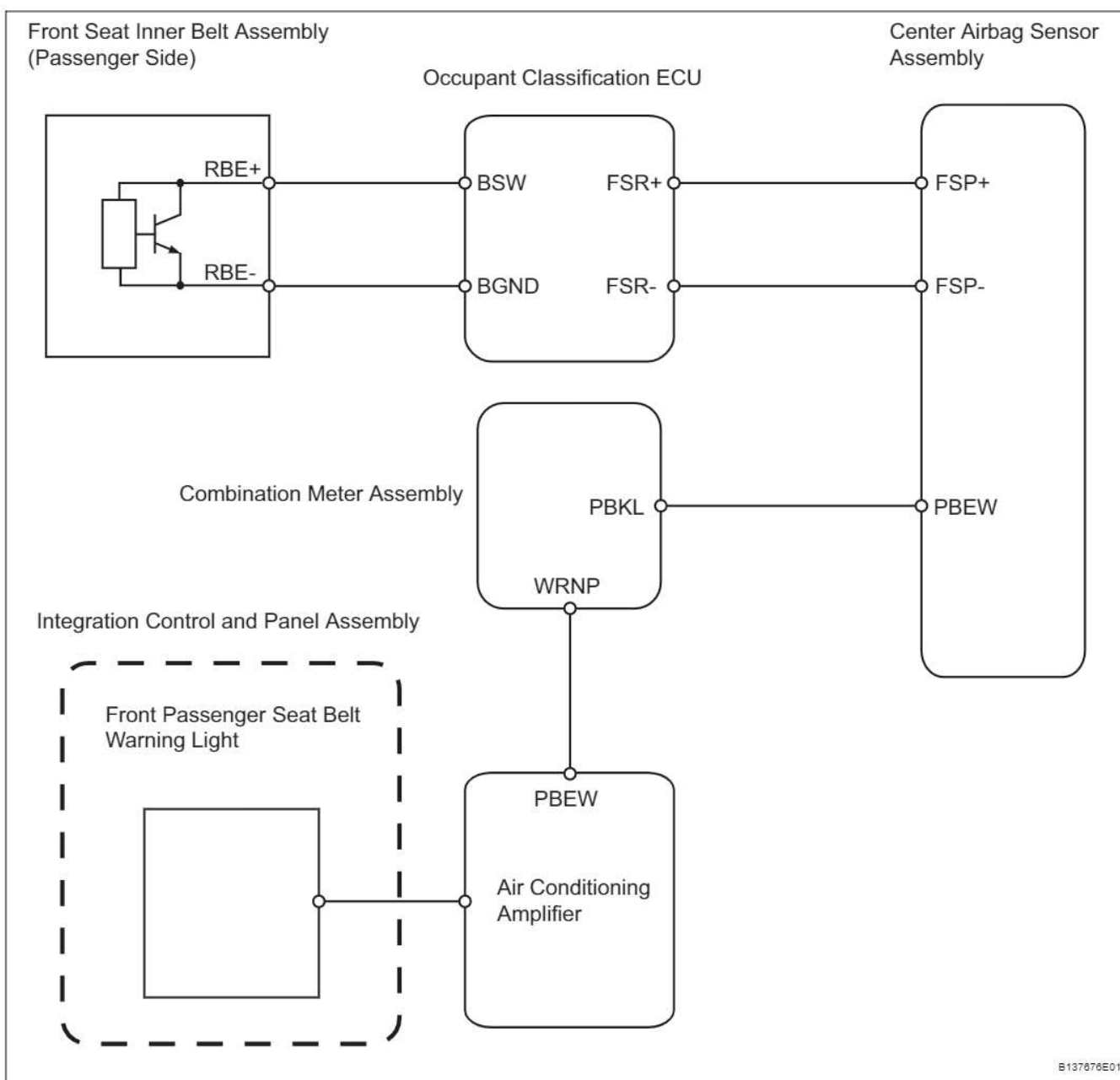
SEAT BELT – SEAT BELT WARNING SYSTEM

Front Passenger Side Seat Belt Warning Light Malfunction

DESCRIPTION

When the ignition switch is ON and the front passenger seat is occupied, the occupant classification ECU communicates the status of the front seat inner belt assembly (passenger side) to the center airbag sensor assembly. The combination meter assembly receives signals from the center airbag sensor assembly and transmits them to the integration control and panel assembly. When the seat belt is unfastened, the combination meter assembly flashes the front passenger seat belt warning light on the integration control and panel assembly. When the seat belt is fastened, the combination meter assembly stops flashing the front passenger seat belt warning light on the integration control and panel assembly.

WIRING DIAGRAM



SEAT BELT – SEAT BELT WARNING SYSTEM

SB-29

INSPECTION PROCEDURE

1 CHECK SUPPLEMENTAL RESTRAINT SYSTEM

- (a) Connect the intelligent tester with the CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Enter the following menus: DIAGNOSIS / SRS AIRBAG/ DTC INFO

Result

Result	Proceed to
No DTCs are output	A
DTCs are output	B

B**GO TO SUPPLEMENTAL RESTRAINT SYSTEM****A****SB****2** CHECK OCCUPANT CLASSIFICATION SYSTEM

- (a) Connect the intelligent tester with the CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Enter the following menus: DIAGNOSIS / OCCUPANT DETECT / DTC INFO

Result

Result	Proceed to
No DTCs are output	A
DTCs are output	B

B**GO TO OCCUPANT CLASSIFICATION SYSTEM****A**

SB-30

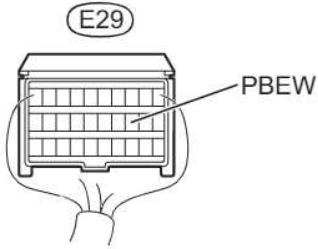
SEAT BELT – SEAT BELT WARNING SYSTEM

3

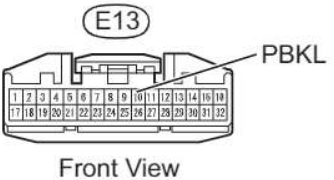
CHECK HARNESS AND CONNECTOR (CENTER AIRBAG SENSOR ASSEMBLY - COMBINATION METER ASSEMBLY)

Wire Harness Side:

Center Airbag Sensor Assembly Connector



Combination Meter Assembly Connector



Front View

B137000E01

- (a) Disconnect the E29 center airbag sensor assembly connector.
- (b) Disconnect the E13 combination meter assembly connector.
- (c) Measure the resistance.
- Standard resistance

Tester Connection	Specified Condition
E29-13 (PBEW) - E13-10 (PBKL)	Below 1 Ω
E29-13 (PBEW) or E13-10 (PBKL) - Body ground	10 kΩ or higher

- (d) Reconnect the center airbag sensor assembly connector.
- (e) Reconnect the combination meter assembly connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

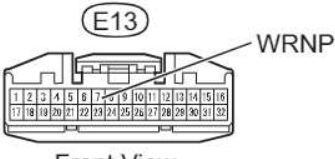
OK

4

CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - AIR CONDITIONING AMPLIFIER)

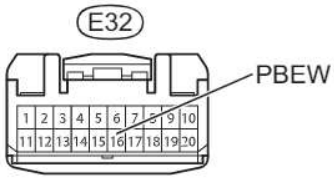
Wire Harness Side:

Combination Meter Assembly Connector



Front View

Air Conditioning Amplifier Connector



Front View

B137001E01

- (a) Disconnect the E13 combination meter assembly connector.
- (b) Disconnect the E32 air conditioning amplifier connector.
- (c) Measure the resistance.
- Standard resistance

Tester Connection	Specified Condition
E13-7 (WRNP) - E32-16 (PBEW)	Below 1 Ω
E13-7 (WRNP) or E32-16 (PBEW) - Body ground	10 kΩ or higher

- (d) Reconnect the combination meter assembly connector.
- (e) Reconnect the air conditioning amplifier connector.

NG

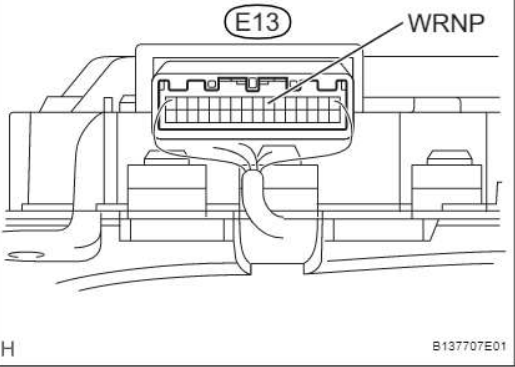
REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5 INSPECT COMBINATION METER ASSEMBLY

Wire Harness Side:

Combination Meter Assembly Connector



(a) Measure the voltage.
Standard voltage

Tester Connection	Condition	Specified Condition
E13-7 (WRNP) - Body ground	Ignition switch ON Front passenger seat occupied	Alternating between 11 to 14 V and below 3 V

NG

REPLACE COMBINATION METER ASSEMBLY

SB

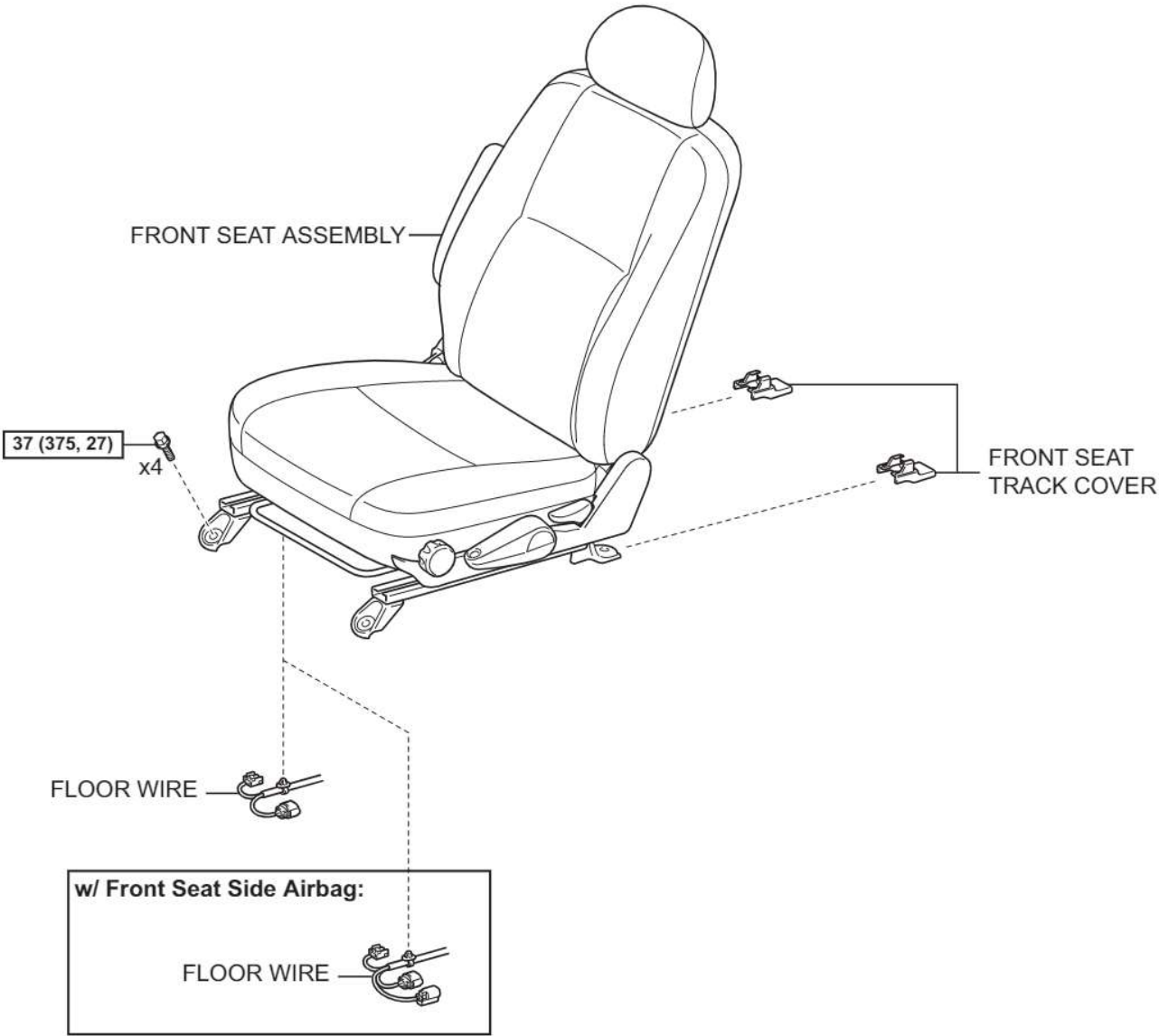
OK

REPLACE INTEGRATION CONTROL AND PANEL ASSEMBLY

FRONT SEAT INNER BELT ASSEMBLY

COMPONENTS

SB

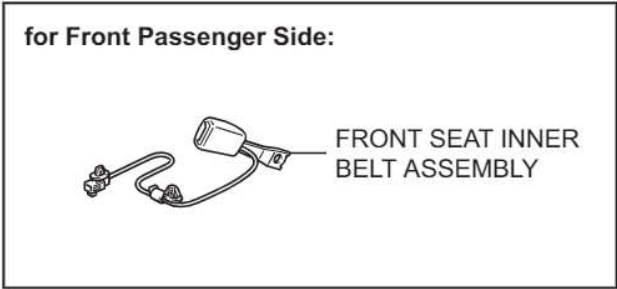


N*m (kgf*cm, ft*lb) : Specified torque

SB-30

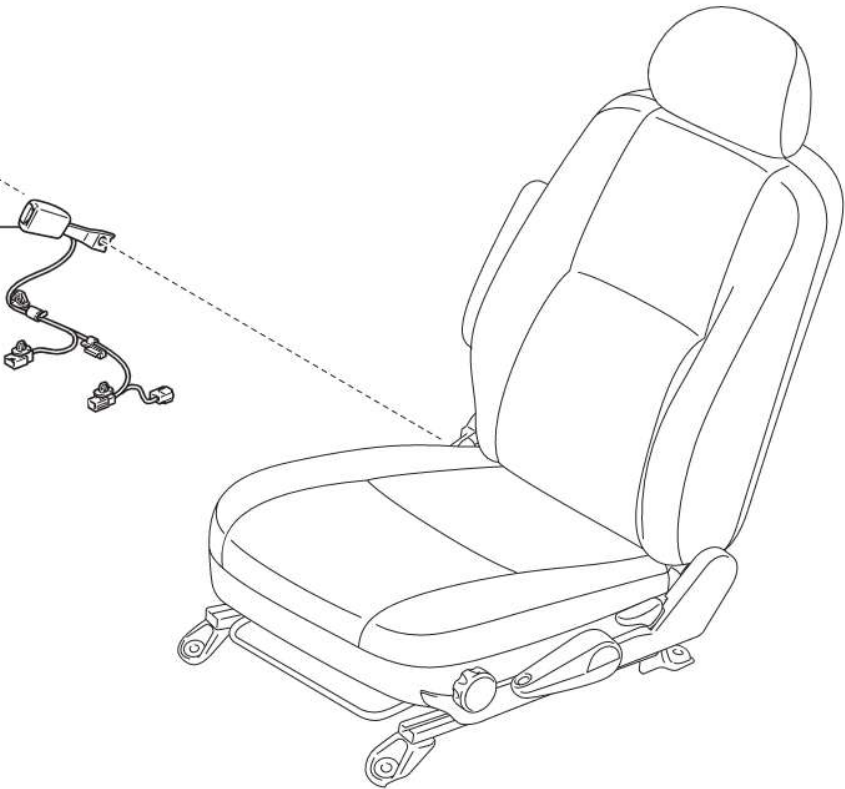
SEAT BELT – FRONT SEAT INNER BELT ASSEMBLY

SB



42 (430, 31)

FRONT SEAT INNER BELT ASSEMBLY



N*m (kgf*cm, ft*lb) : Specified torque

REMOVAL

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (w/ Front Seat Side Airbag) (See page [RS-1](#)).

HINT:

The procedure described below is for the driver side. Use the same procedure for both the driver and front passenger sides, unless otherwise specified.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working (w/ Front Seat Side Airbag).

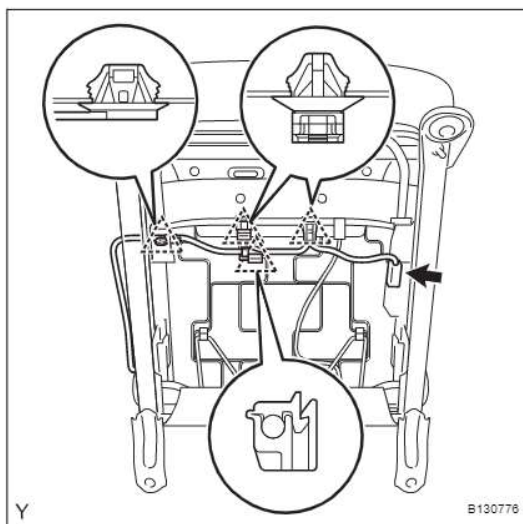
2. REMOVE FRONT SEAT TRACK COVER (See page [SE-5](#))

3. REMOVE FRONT SEAT ASSEMBLY (See page [SE-6](#))

4. REMOVE FRONT SEAT INNER BELT ASSEMBLY

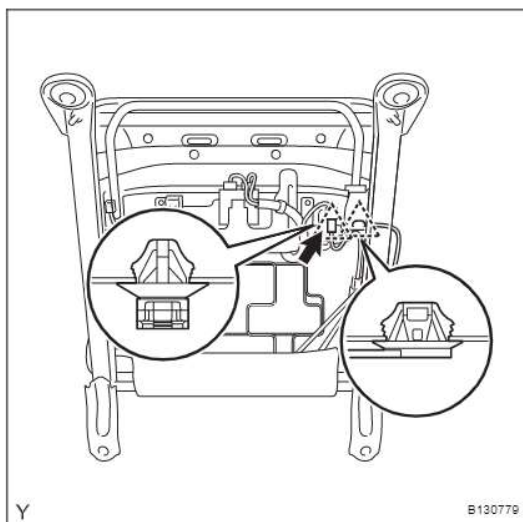
(a) for Driver Side:

- (1) Disconnect the seat position sensor connector.
- (2) Using a clip remover, remove the 2 connectors and the clamp.
- (3) Remove the clamp.



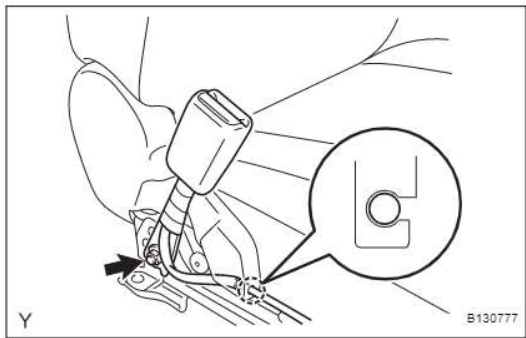
(b) for Front Passenger Side:

- (1) Disconnect the buckle switch connector.
- (2) Using a clip remover, remove the connector and the clamp.

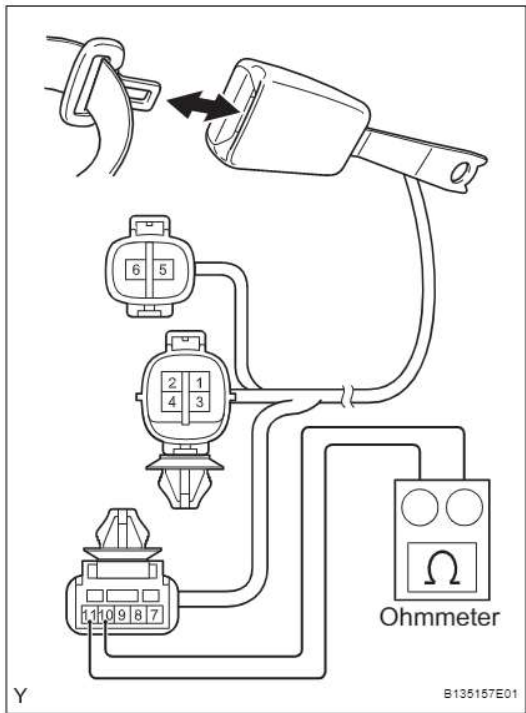


SB-32

SEAT BELT – FRONT SEAT INNER BELT ASSEMBLY



- (c) Remove the wire harness from the claw of the front seat cushion inner shield.
- (d) Remove the nut and the front seat inner belt.



INSPECTION

1. INSPECT FRONT SEAT INNER BELT ASSEMBLY (for Driver Side)

- (a) Check the resistance.
 - (1) Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

Tester Connection	Condition	Specified Condition
10 - 11	Tongue plate fastened	Below 1 Ω
	Tongue plate released	10 kΩ or higher

If the result is not as specified, replace the front seat inner belt.

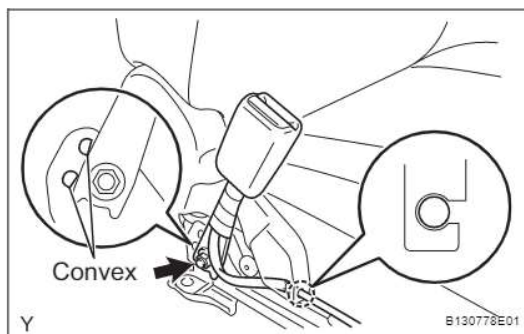
INSTALLATION

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (w/ Front Seat Side Airbag) (See page [RS-1](#)).

HINT:

The procedure described below is for the driver side. Use the same procedure for both the driver and front passenger sides, unless otherwise specified.



1. INSTALL FRONT SEAT INNER BELT ASSEMBLY

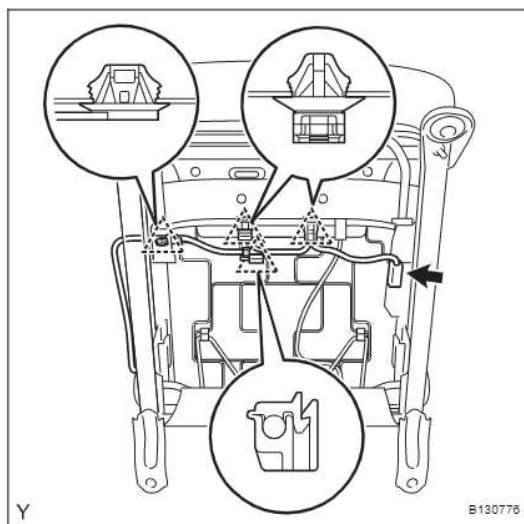
- (a) Install the front seat inner belt with the bolt.

Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)

NOTICE:

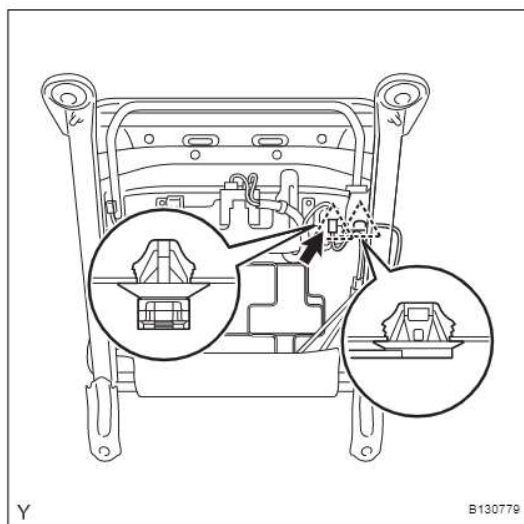
Do not place the front seat inner belt over the convex areas of the front seat frame adjuster.

- (b) Install the wire harness into the claw of the front seat cushion inner shield.

SB


- (c) for Driver Side:

- (1) Install the 2 clamps and the 2 connectors.
- (2) Connect the seat position sensor connector.



- (d) for Front Passenger Side:

- (1) Install the clamp and the connector.
- (2) Connect the buckle switch connector.

2. INSTALL FRONT SEAT ASSEMBLY (See page [SE-24](#))

3. INSTALL FRONT SEAT TRACK COVER (See page [SE-25](#))

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

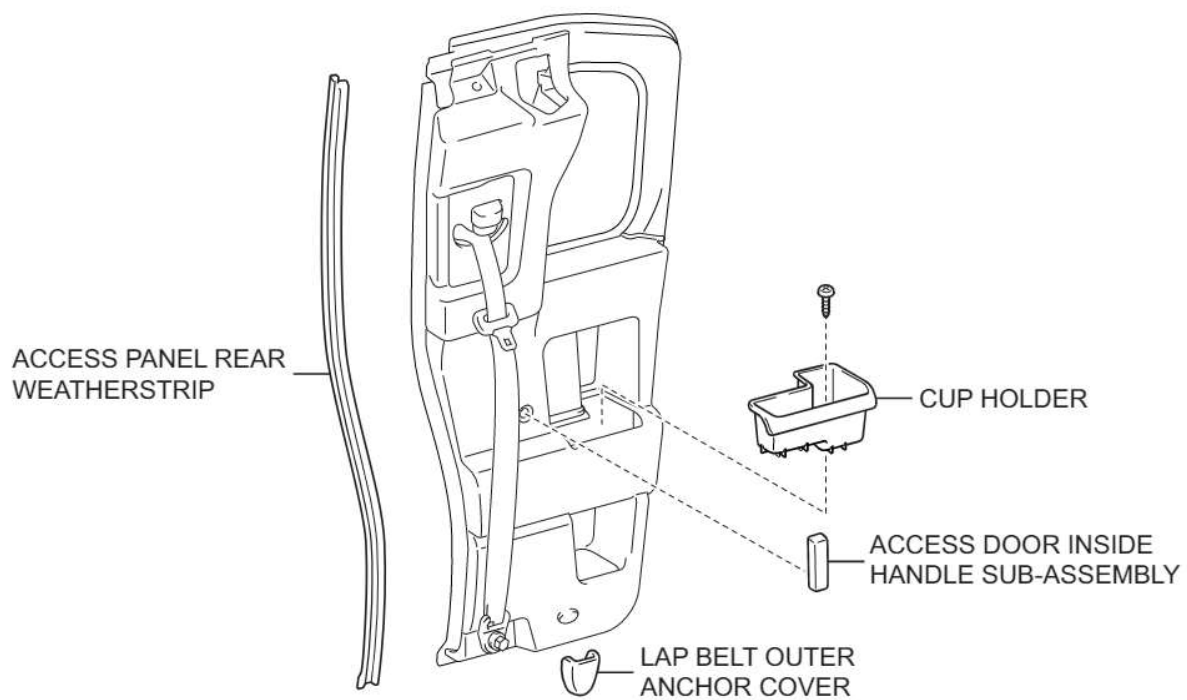
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

5. INSPECT SRS WARNING LIGHT (w/ Front Seat Side Airbag) (See page [RS-29](#))

SB-34

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

FRONT SEAT OUTER BELT ASSEMBLY COMPONENTS

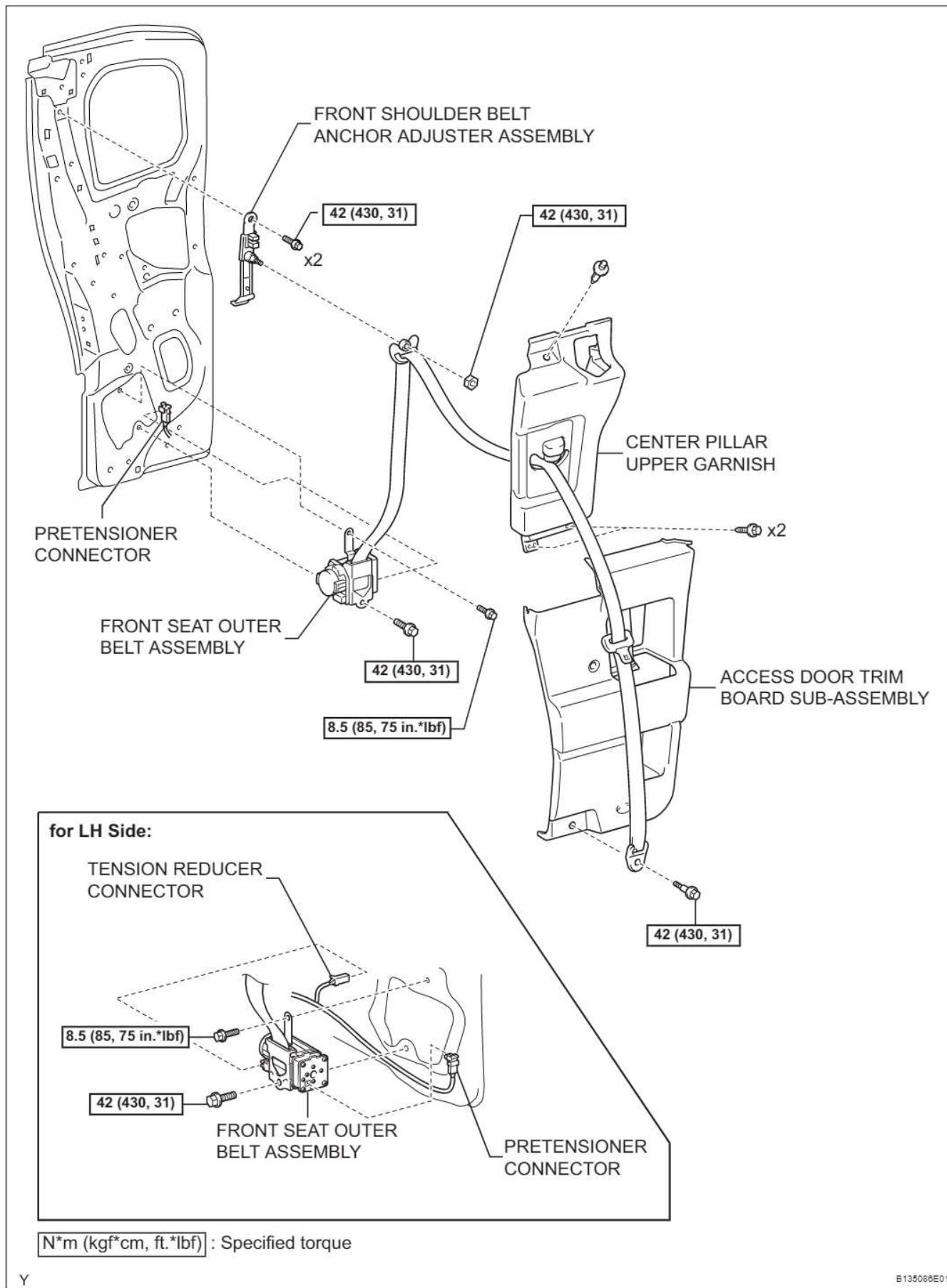


Y

B138387E01

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

SB-35



N*m (kgf*cm, ft.*lbf) : Specified torque

SB-36

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

REMOVAL

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See page [RS-1](#)).

HINT:

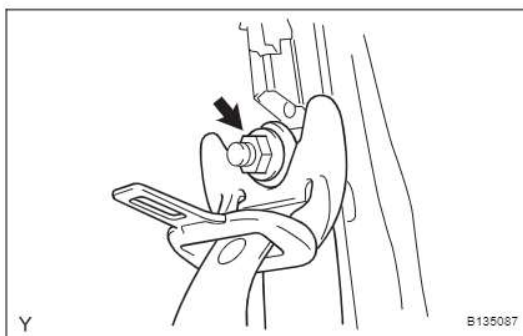
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

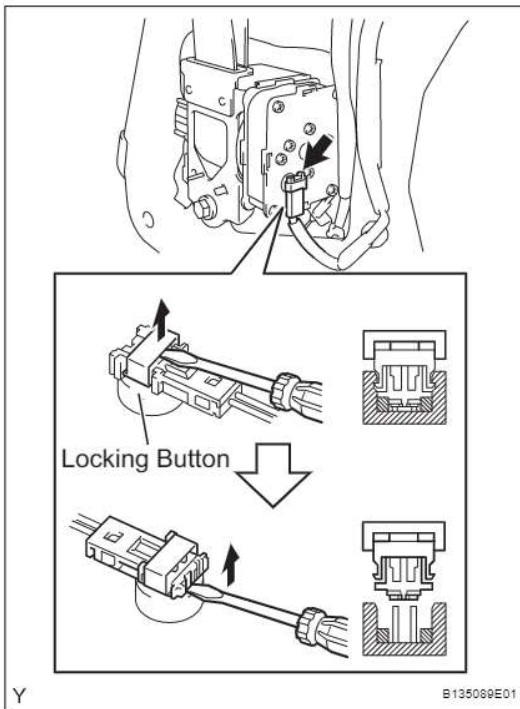
1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

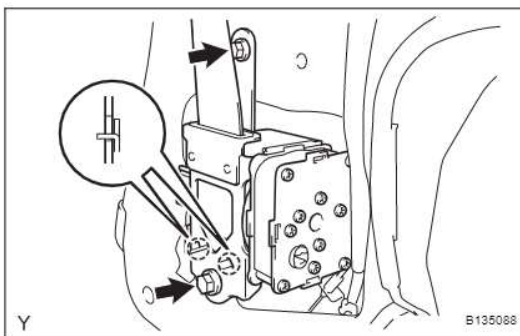
2. REMOVE ACCESS PANEL REAR WEATHERSTRIP (See page [ED-29](#))
3. REMOVE LAP BELT OUTER ANCHOR COVER (See page [ED-29](#))
4. REMOVE ACCESS DOOR INSIDE HANDLE SUB-ASSEMBLY (See page [ED-29](#))
5. REMOVE CUP HOLDER (See page [ED-29](#))
6. REMOVE ACCESS DOOR TRIM BOARD SUB-ASSEMBLY (See page [ED-30](#))
7. REMOVE CENTER PILLAR UPPER GARNISH (See page [ED-30](#))
8. REMOVE FRONT SEAT OUTER BELT ASSEMBLY
 - (a) Remove the nut and the through anchor.



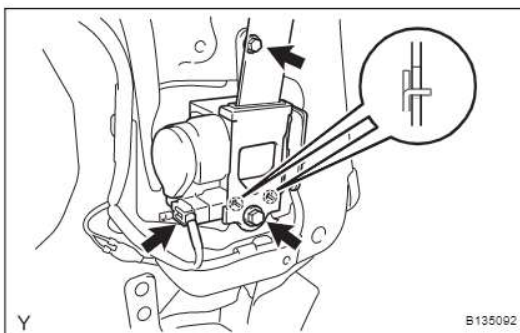
SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY**SB-37**

(b) for RH Side:

- (1) Using a screwdriver, release the locking button of the pretensioner connector.
- (2) Using a screwdriver, disconnect the pretensioner connector.



- (3) Remove the 2 bolts, the 2 hooks and the retractor.



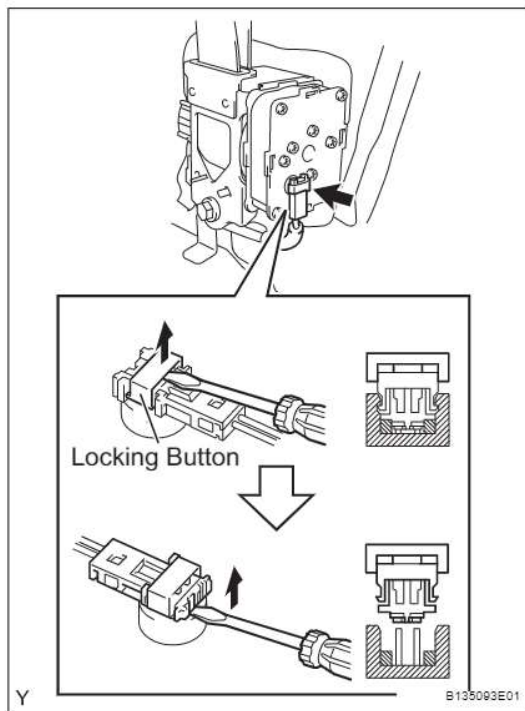
(c) for LH Side:

- (1) Disconnect the tension reducer connector.
- (2) Remove the 2 bolts, the 2 hooks and the retractor.

SB

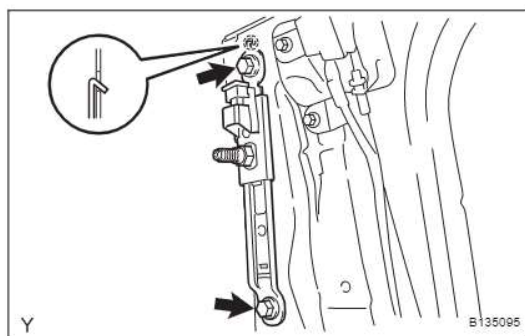
SB-38

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY



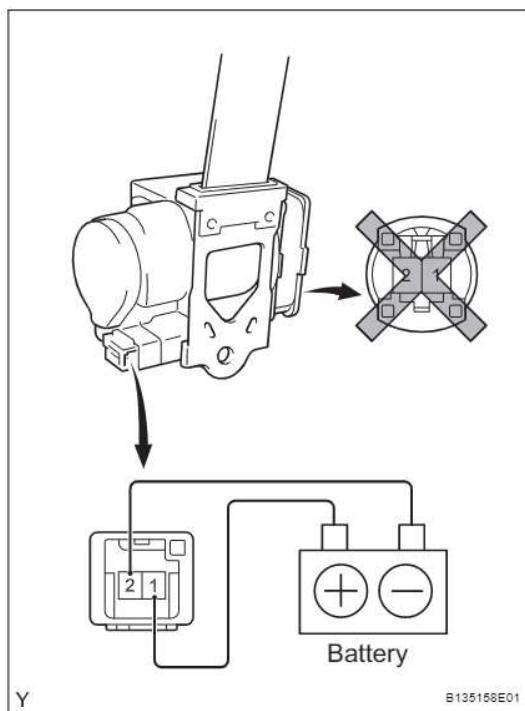
- (3) Using a screwdriver, release the locking button of the pretensioner connector.
- (4) Using a screwdriver, disconnect the pretensioner connector.

SB



9. REMOVE FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

- (a) Remove the 2 bolts, the hook and the shoulder belt anchor adjuster.



INSPECTION

1. INSPECT FRONT SEAT OUTER BELT ASSEMBLY (for Driver Side)

- (a) Check the operation.

NOTICE:

Do not apply battery voltage to the pretensioner connector.

- (1) Connect the positive battery lead to terminal 1 of the tension reducer connector and the negative battery lead to terminal 2.
- (2) Check that an operating sound is heard when the magnetized solenoid attracts the plunger.
- (3) Pull out the seat belt and allow it to retract. Listen to the operating sound.
- (4) Pull out the seat belt again, disconnect the negative battery lead and allow the seat belt to retract. Listen to the operating sound again and check that the operating sound volume has increased.

If the result is not as specified, replace the front seat outer belt.

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

SB-39

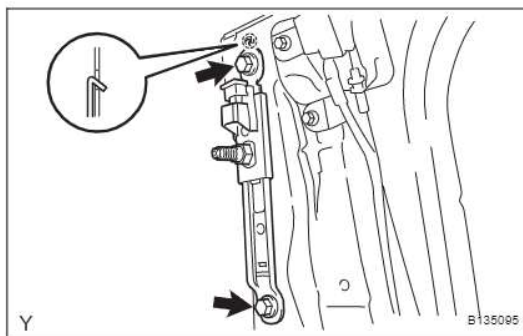
INSTALLATION

CAUTION:

Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See page RS-1).

HINT:

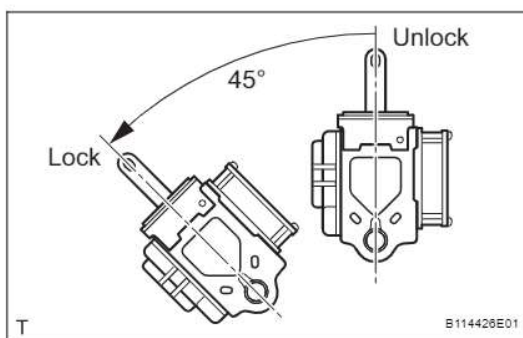
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.



1. INSTALL FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

- (a) Insert the hook into the body hole and provisionally install the shoulder belt anchor adjuster with the 2 bolts.
- (b) Tighten the upper bolt and then the lower bolt.
Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)

SB



2. INSTALL FRONT SEAT OUTER BELT ASSEMBLY

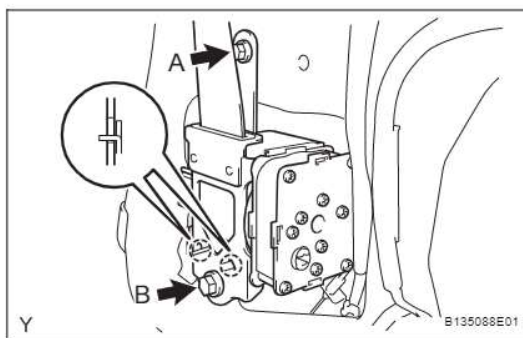
- (a) Check the angle of inclination required to lock the retractor.
 - (1) Gently incline the retractor from its initial position. Check that the belt does not lock when the retractor is inclined 15° or less in any direction. Also, check that the belt locks when the inclination of the retractor is 45° or more.

NOTICE:

Do not disassemble the retractor.

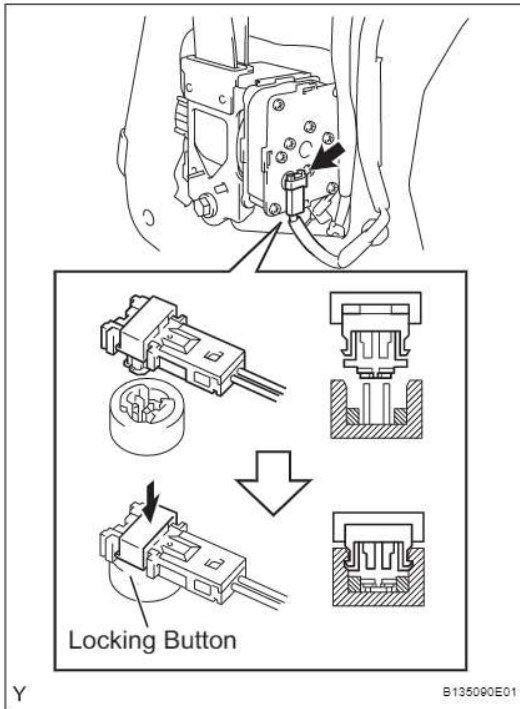
If the operation is not as specified, replace the front seat outer belt.

- (b) for RH Side:
 - (1) Hook the lower stay of the retractor onto the 2 body hooks and provisionally install the retractor with the 2 bolts.
 - (2) Tighten bolt A and then bolt B.
Torque: 8.5 N*m (85 kgf*cm, 75 in.*lbf) for bolt A
42 N*m (430 kgf*cm, 31 ft.*lbf) for bolt B



SB-40

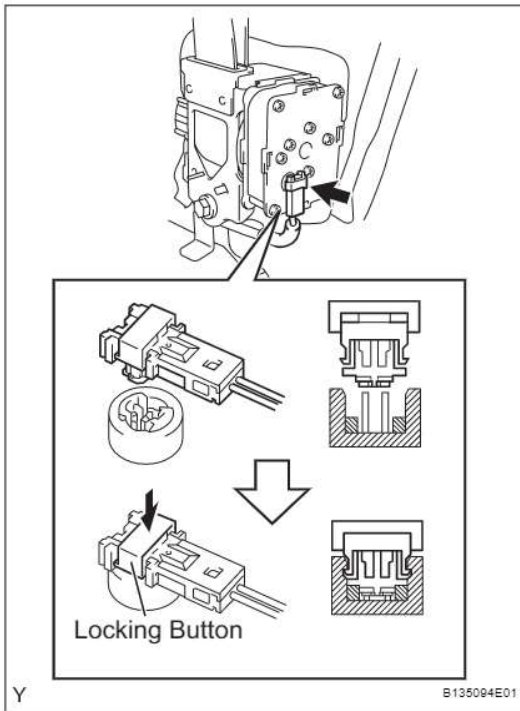
SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY



- (3) Connect the pretensioner connector.
- (4) Lock the locking button of the pretensioner connector.

NOTICE:

Securely lock the locking button.

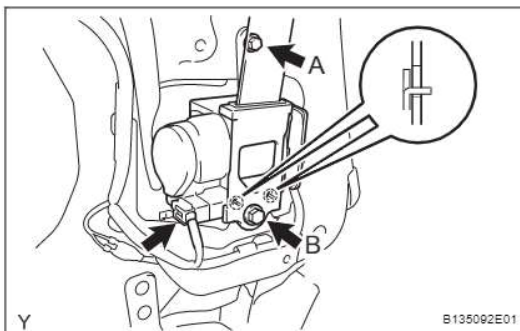


- (c) for LH Side:

- (1) Connect the pretensioner connector.
- (2) Lock the locking button of the pretensioner connector.

NOTICE:

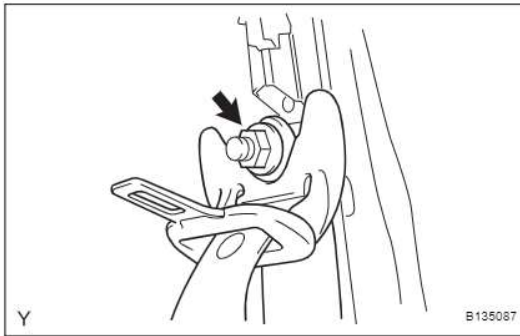
Securely the locking button.



- (3) Hook the lower stay of the retractor onto the 2 body hooks and provisionally install the retractor with the 2 bolts.
- (4) Tighten bolt A and then bolt B.
Torque: 8.5 N*m (85 kgf*cm, 75 in.*lbf) for bolt A
42 N*m (430 kgf*cm, 31 ft.*lbf) for bolt B
- (5) Connect the tension reducer connector.

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

SB-41



- (d) Install the through anchor with the bolt.
Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)
- (e) Make sure that the shoulder anchor rotates smoothly.
- (f) Check that the ELR locks.

NOTICE:

Perform the check with the front seat outer belt installed.

- (1) With the belt installed, check that the belt locks when it is pulled out quickly.
If the operation is not as specified, replace the front seat outer belt.

3. **INSTALL CENTER PILLAR UPPER GARNISH** (See page [ED-40](#))
4. **INSTALL ACCESS DOOR TRIM BOARD SUB-ASSEMBLY** (See page [ED-41](#))
5. **INSTALL CUP HOLDER** (See page [ED-41](#))
6. **INSTALL ACCESS DOOR INSIDE HANDLE SUB-ASSEMBLY** (See page [ED-41](#))
7. **INSTALL LAP BELT OUTER ANCHOR COVER** (See page [ED-42](#))
8. **INSTALL ACCESS PANEL REAR WEATHERSTRIP** (See page [ED-42](#))
9. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)
10. **INSPECT SRS WARNING LIGHT** (See page [RS-29](#))

SB

SB-42

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

DISPOSAL

CAUTION:

- Never dispose of a front seat outer belt that has an inactivated pretensioner.
- The seat belt pretensioner produces a loud, exploding sound when it activates. Perform the operation where it will not be a nuisance to persons nearby.
- Stand at least 10 m (33 ft) away when activating a front seat outer belt (with the seat belt pretensioner).
- Use gloves and safety glasses when handling a front seat outer belt with an activated pretensioner.
- Always wash your hands with water after completing an activation.
- Do not apply water to a front seat outer belt that has an activated pretensioner.
- Always use the specified SST (SRS airbag deployment tool) when activating the seat belt pretensioner.
- Perform the operation in a place away from electrical interference.

HINT:

The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

1. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (When Installed in Vehicle)

HINT:

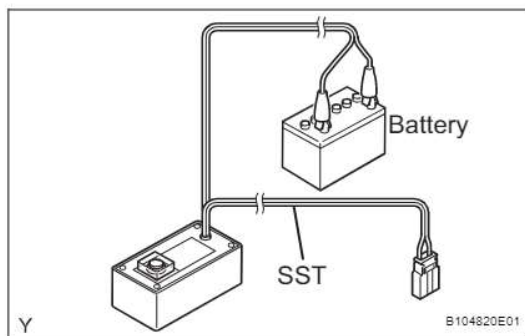
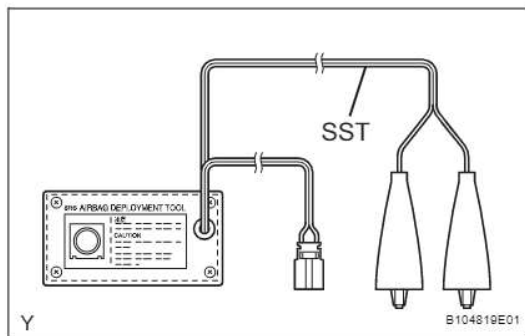
Prepare a battery as the power source to activate the seat belt pretensioner.

- (a) Check whether SST is functioning.

SST 09082-00700

CAUTION:

Always use the specified SST when activating the seat belt pretensioner.



- (1) Connect the SST red clip to the positive battery terminal and the black clip to the negative battery terminal.

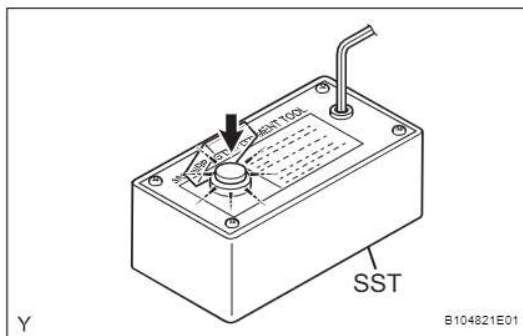
HINT:

Do not connect the yellow connector. The yellow connector is for connections to the seat belt pretensioner.

SB

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

SB-43



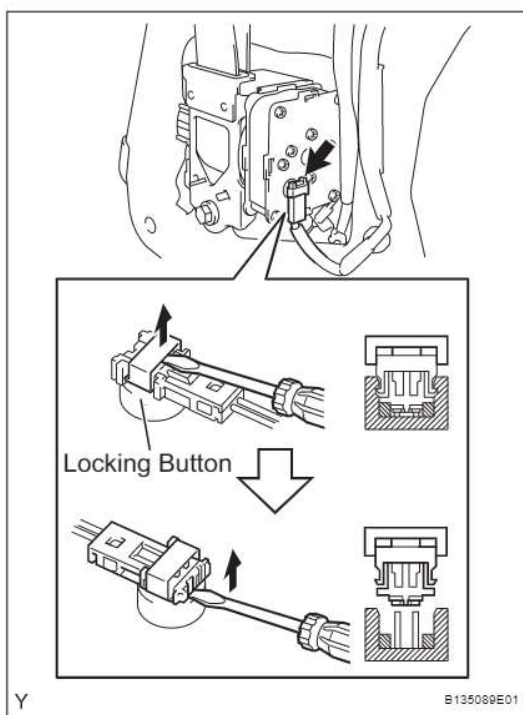
- (2) Press the SST activation switch and check that the LED of the SST activation switch illuminates.

CAUTION:

If the LED illuminates when the activation switch is not being pressed, SST may be malfunctioning. Do not use SST.

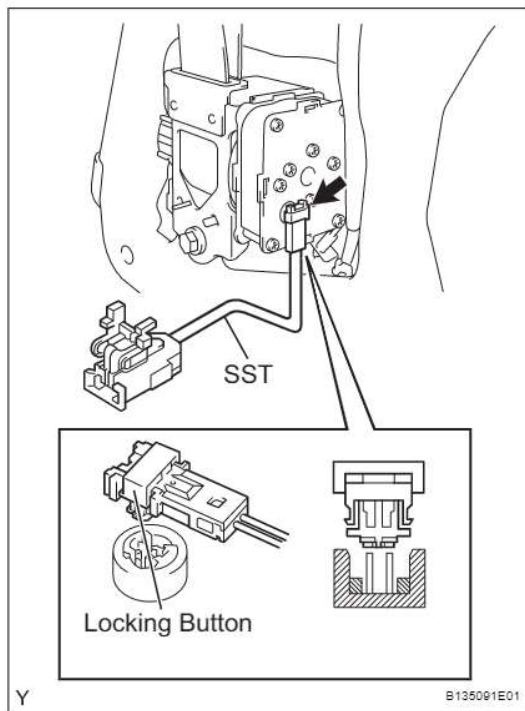
- (b) Disconnect the SST from the battery.
 (c) Disconnect the pretensioner connector.
- (1) Disconnect the cable from the negative battery terminal.
 - (2) Remove the access panel rear weatherstrip (See page ED-29).
 - (3) Remove the lap belt outer anchor cover (See page ED-29).
 - (4) Remove the access door inside handle sub-assembly (See page ED-29).
 - (5) Remove the cup holder (See page ED-29).
 - (6) Remove the access door trim board sub-assembly (See page ED-30).
 - (7) Disconnect the pretensioner connector.
 1. Using a screwdriver, release the locking button.
 2. Using a screwdriver, disconnect the pretensioner connector.

SB



SB-44

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY



(d) Connect SST.

- (1) Connect SST, then connect the yellow connector to the seat belt pretensioner.

SST 09082-00770

NOTICE:

Do not lock the secondary lock of the twin lock to avoid damaging the SST connector and wire harness.

- (2) Connect SST.

SST 09082-00700

NOTICE:

Do not lock the secondary lock of the twin lock to avoid damaging the SST connector and wire harness.

- (3) Move SST at least 10 m (33 ft) away from the vehicle.
- (4) Close the doors and windows of the vehicle.

NOTICE:

Do not damage the SST wire harness.

HINT:

Do not close the windows fully. Leave a gap for inserting the SST wire harness.

- (5) Connect the SST red clip to the positive battery terminal and the black clip to the negative battery terminal.

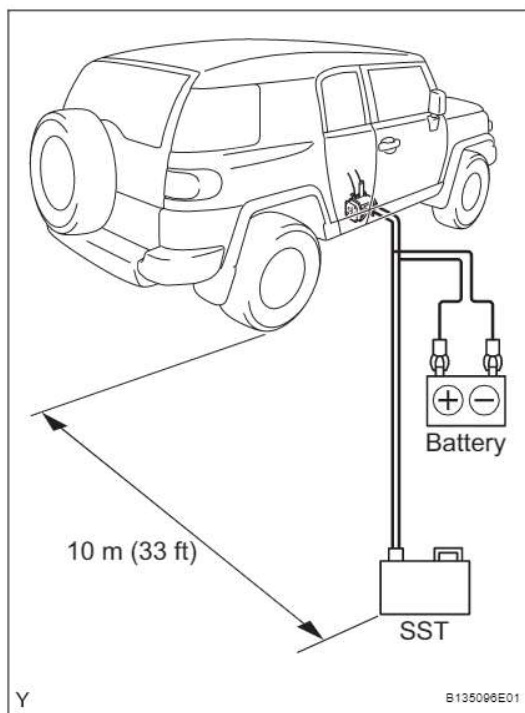
(e) Activate the seat belt pretensioner.

- (1) Confirm that no one is inside the vehicle or within 10 m (33 ft) of the vehicle.
- (2) Press the SST activation switch and activate the seat belt pretensioner.

HINT:

The seat belt pretensioner operates simultaneously with the SST activation switch LED light.

(f) Disconnect SST.



SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

SB-45

- (g) Dispose of the front seat outer belt (with the seat belt pretensioner).

CAUTION:

- Do not touch the front seat outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.
- Use gloves and safety glasses when handling a front seat outer belt with a pretensioner that has been activated.
- Always wash your hands with water after completing the operation.
- Do not apply water to a front seat outer belt that has an activated pretensioner.

HINT:

When scrapping a vehicle, activate the seat belt pretensioner, and then scrap the vehicle with the activated front seat outer belt still installed.

2. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (When not Installed in Vehicle)

SB

NOTICE:

- Never use the customers vehicle to activate the seat belt pretensioner when only disposing of the front seat outer belt (with the seat belt pretensioner).
- Follow the procedure described below when activating the seat belt pretensioner.

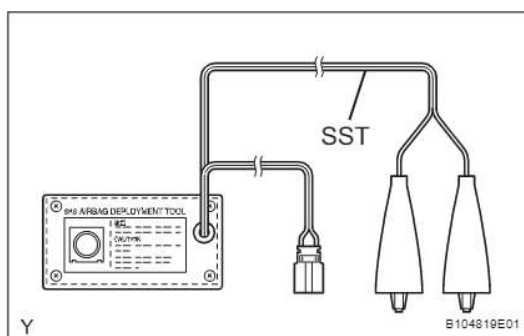
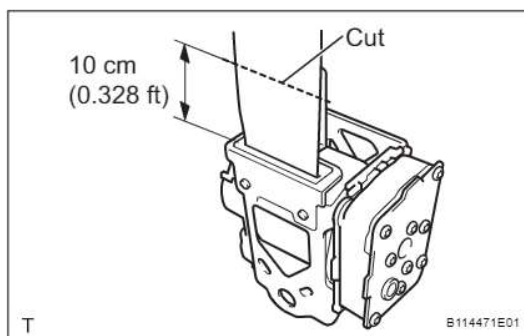
HINT:

Prepare a battery as the power source to activate the seat belt pretensioner.

- (a) Remove the front seat outer belt assembly (See page SB-36).
- (b) Wind the seat belt with the retractor.
- (c) When the seat belt is sufficiently wound, cut the seat belt approximately 10 cm (0.328 ft) from the retractor, as shown in the illustration.

HINT:

The retractor resistance increases in correlation with how much the seat belt is wound.



- (d) Check whether SST is functioning.

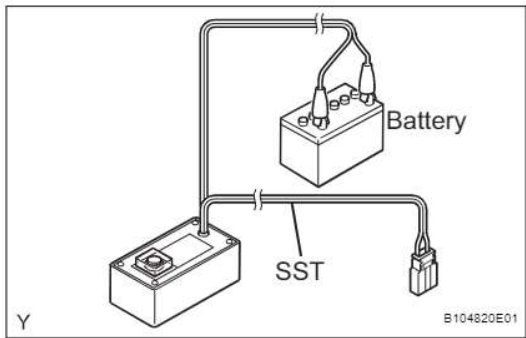
SST 09082-00700

CAUTION:

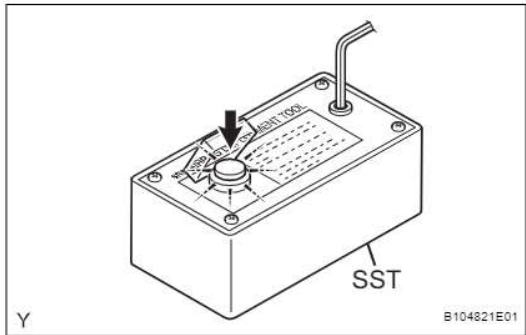
Always use the specified SST when activating the seat belt pretensioner.

SB-46

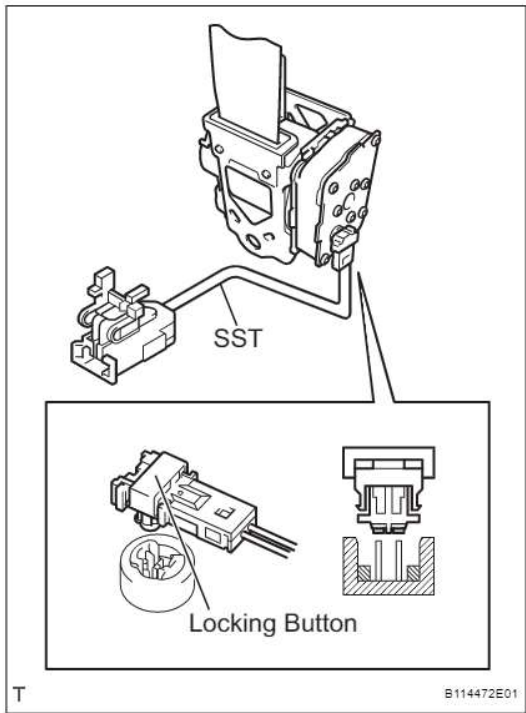
SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY



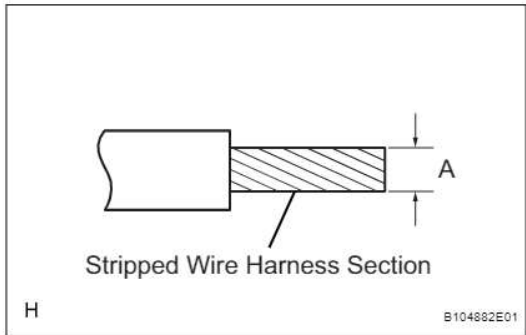
- (1) Connect the SST red clip to the positive battery terminal and the black clip to the negative battery terminal.
- HINT:**
Do not connect the yellow connector. The yellow connector is for connections to the seat belt pretensioner.



- (2) Press the SST activation switch and check that the LED of the SST activation switch illuminates.
- CAUTION:**
If the LED illuminates when the activation switch is not being pressed, SST may be malfunctioning. Do not use SST.



- (e) Connect SST.
- (1) Connect SST, then connect the yellow connector to the seat belt pretensioner.
- SST 09082-00770**
- NOTICE:**
Do not lock the secondary lock of the twin lock to avoid damaging the SST connector and wire harness.



- (2) Using a service-purpose wire harness for the vehicle, tie the seat belt pretensioner to the tire with a wheel attached.

Stripped wire harness section

Area	Measurement
A	1.25 mm ² or more (0.0019 in. ² or more)

SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY

SB-47

CAUTION:

- Do not use wire harnesses that are too thin or any other object to tie the seat belt pretensioner because they may snap due to the shock when the pretensioner is deployed.
- Always use a wire harness for vehicle use, with a cross section of at least 1.25 mm² (0.0019 in.²).

HINT:

To calculate the area of the stripped wire harness cross section:

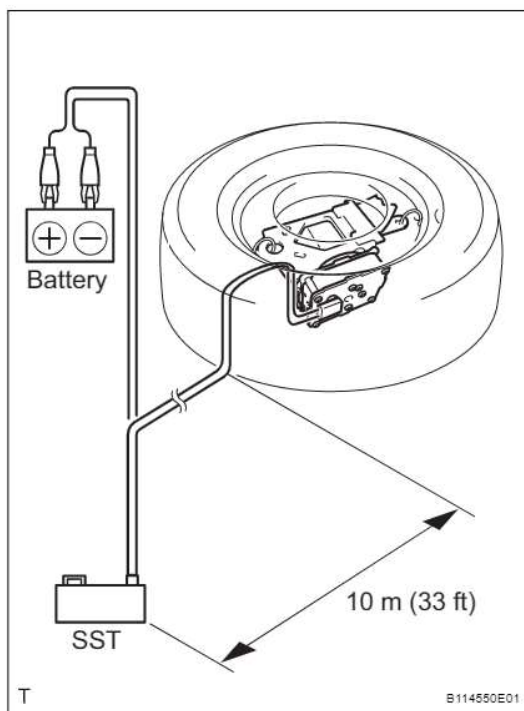
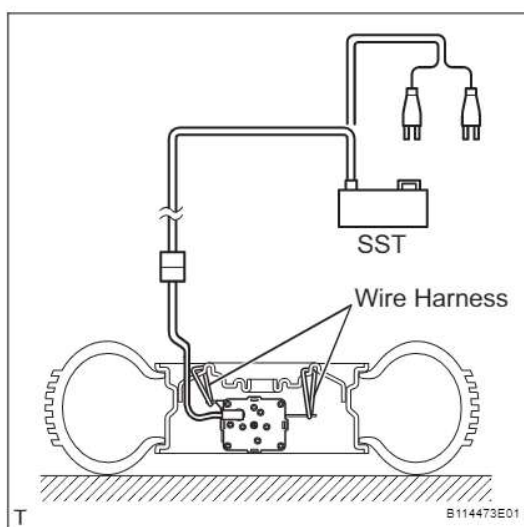
$$\text{Area} = 3.14 \times (\text{Diameter})^2 \text{ divided by } 4$$

- (3) Connect SST.

SST 09082-00700

NOTICE:

- Do not lock the secondary lock of the twin lock to avoid damaging the SST connector and wire harness.
- Set up the front seat outer belt, as shown in the illustration.

SB

- (4) Move SST at least 10 m (33 ft) away from the wheel.

NOTICE:

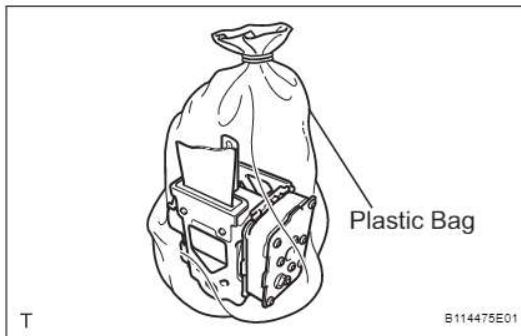
Do not damage the SST wire harness.

- (f) Activate the seat belt pretensioner.
- (1) Connect the SST red clip to the positive battery terminal and the black clip to the negative battery terminal.
 - (2) Check that no one is within 10 m (30 ft) of the wheel.
 - (3) Press the SST activation switch and activate the seat belt pretensioner.

HINT:

The seat belt pretensioner operates simultaneously with the SST activation switch LED light.

- (g) Disconnect SST.

SB-48**SEAT BELT – FRONT SEAT OUTER BELT ASSEMBLY**

- (h) Dispose of the front seat outer belt (with the seat belt pretensioner).

CAUTION:

- Do not touch the front seat outer belt for at least 30 minutes after the seat belt pretensioner has been activated. It is very hot.
- Use gloves and safety glasses when handling a front seat outer belt with a pretensioner that has been activated.
- Always wash your hands with water after completing the operation.
- Do not apply water to a front seat outer belt that has an activated pretensioner.

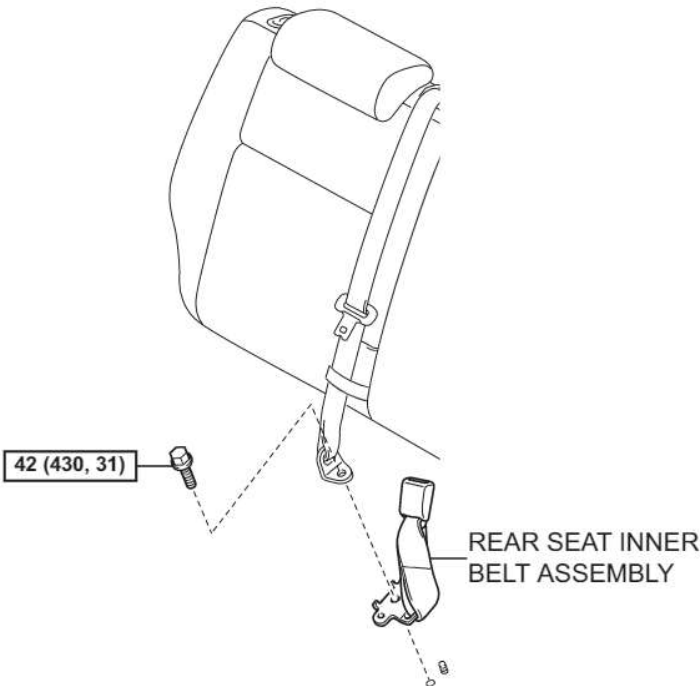
- (1) Place the front seat outer belt in a plastic bag, tie the end tightly and dispose of it in the same way as other general parts.

SB

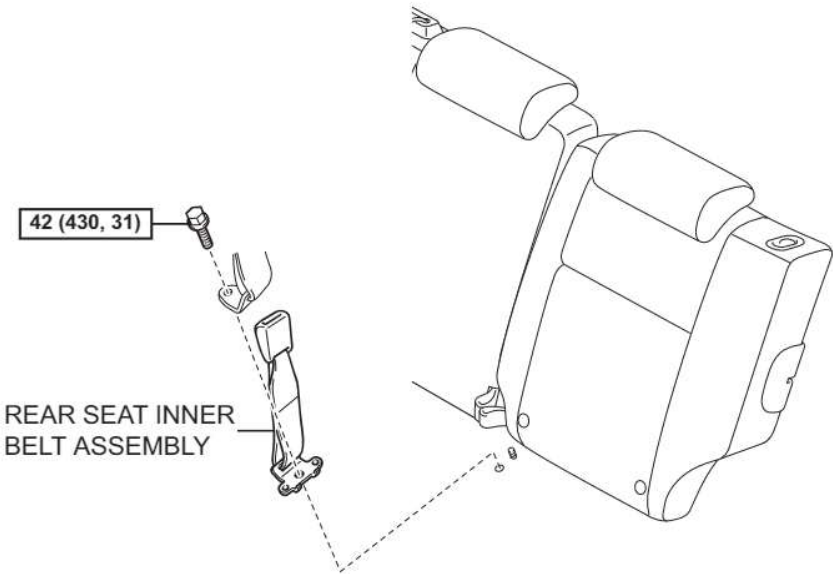
REAR SEAT INNER BELT ASSEMBLY

COMPONENTS

for RH Side:



for LH Side:



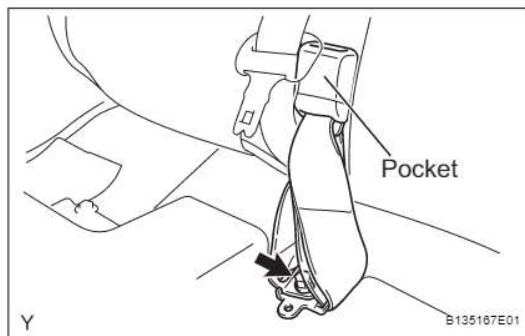
N*m (kgf*cm, ft*lbf) : Specified torque

Y

B135172E01

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SEAT BELT – REAR SEAT INNER BELT ASSEMBLY



REMOVAL

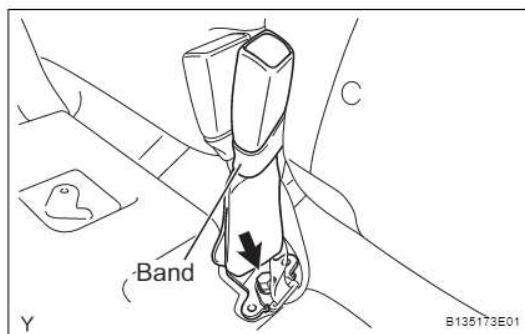
1. REMOVE REAR SEAT INNER BELT ASSEMBLY

(a) for RH Side:

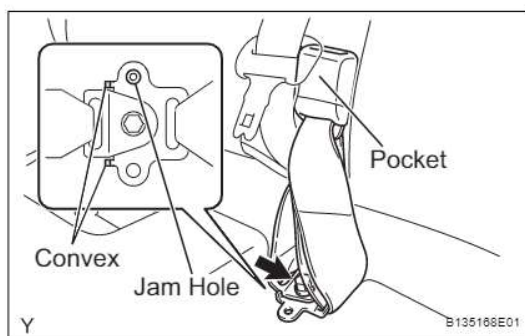
- (1) Pull up the rear seat cushion.
- (2) Remove the buckle from the rear seatback pocket.
- (3) Remove the bolt, the anchor plate of the rear center seat outer belt and the rear seat inner belt.

(b) for LH Side:

- (1) Pull up the rear seat cushion.
- (2) Remove the buckle from the rear seatback band.
- (3) Remove the bolt, the anchor plate of the rear center seat inner belt and the rear seat inner belt.



SB



INSTALLATION

1. INSTALL REAR SEAT INNER BELT ASSEMBLY

(a) for RH Side:

- (1) Align the jam hole in the anchor plate of the rear seat inner belt with the stud bolt of the body and provisionally install the anchor plate.
- (2) Install the anchor plate of the rear center seat inner belt with the bolt.

Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)**NOTICE:****Do not place the anchor plate over the convex areas of the rear seat inner belt.**

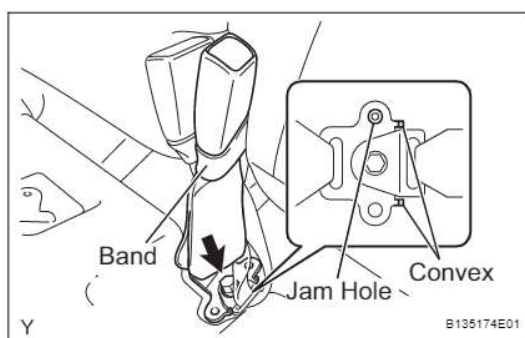
- (3) Install the buckle into the rear seatback pocket.
- (4) Install the rear seat cushion.

(b) for LH Side:

- (1) Align the jam hole in the anchor plate of the rear seat inner belt with the stud bolt of the body and provisionally install the anchor plate.
- (2) Install the anchor plate of the rear center seat inner belt with the bolt.

Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)**NOTICE:****Do not place the anchor plate over the convex areas of the rear seat inner belt.**

- (3) Install the buckle into the rear seatback band.
- (4) Install the rear seat cushion.



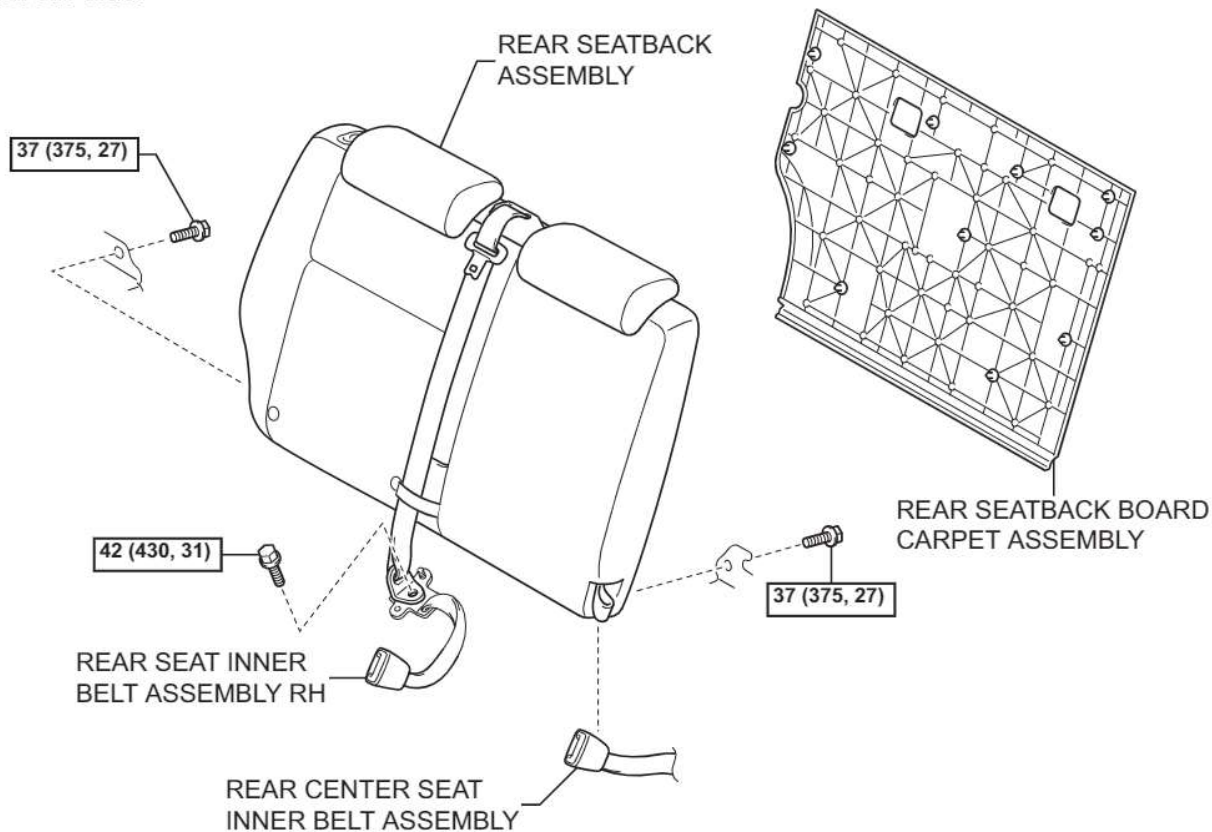
SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

SB-51

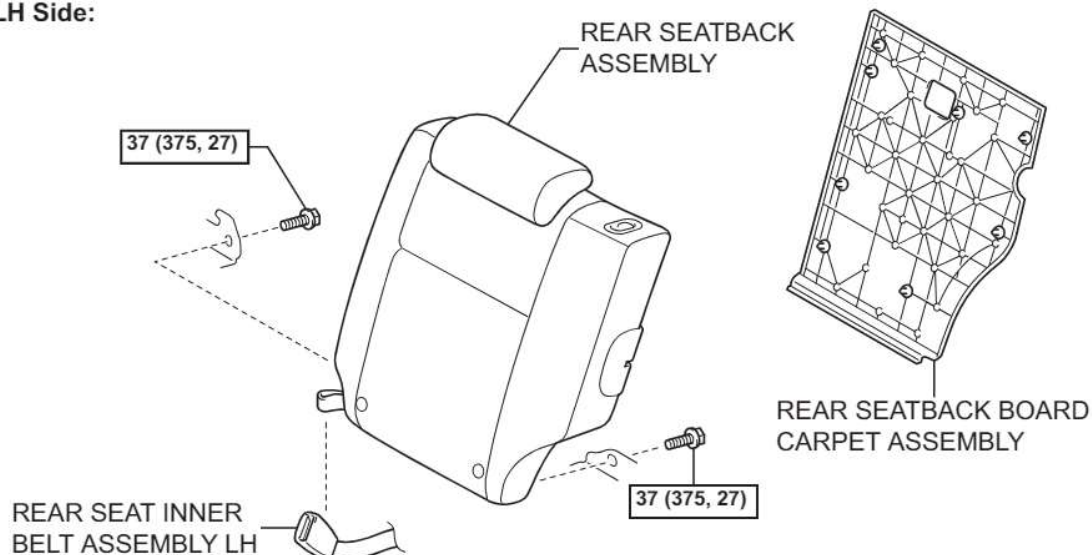
REAR SEAT OUTER BELT ASSEMBLY

COMPONENTS

for RH Side:



for LH Side:



N*m (kgf*cm, ft*lbf) : Specified torque

Y

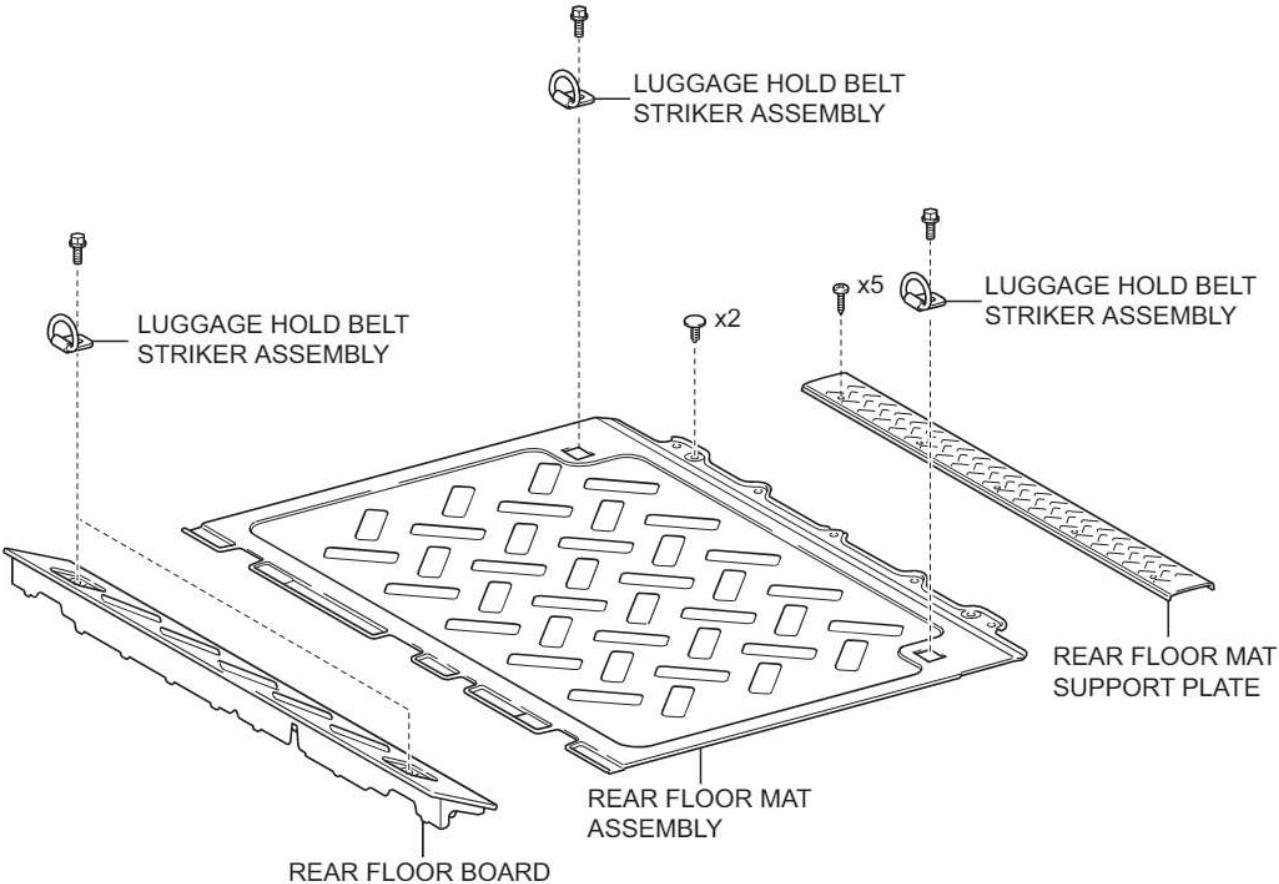
B130654E02

SB

SB-52

SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

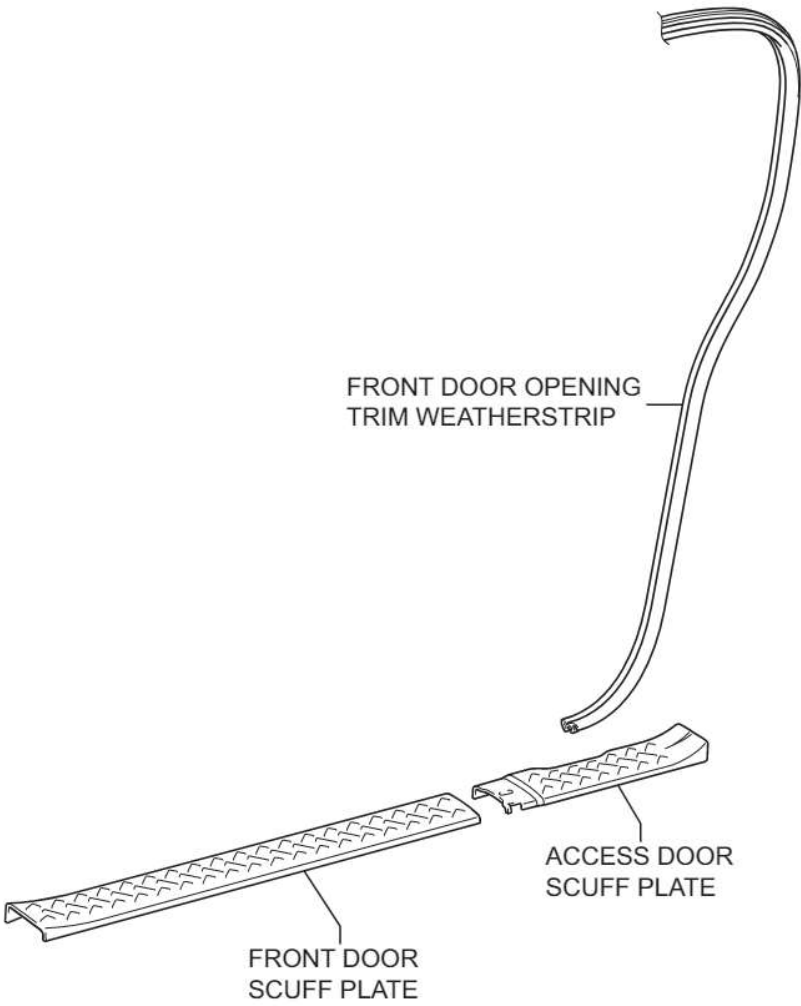
SB



SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

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SB



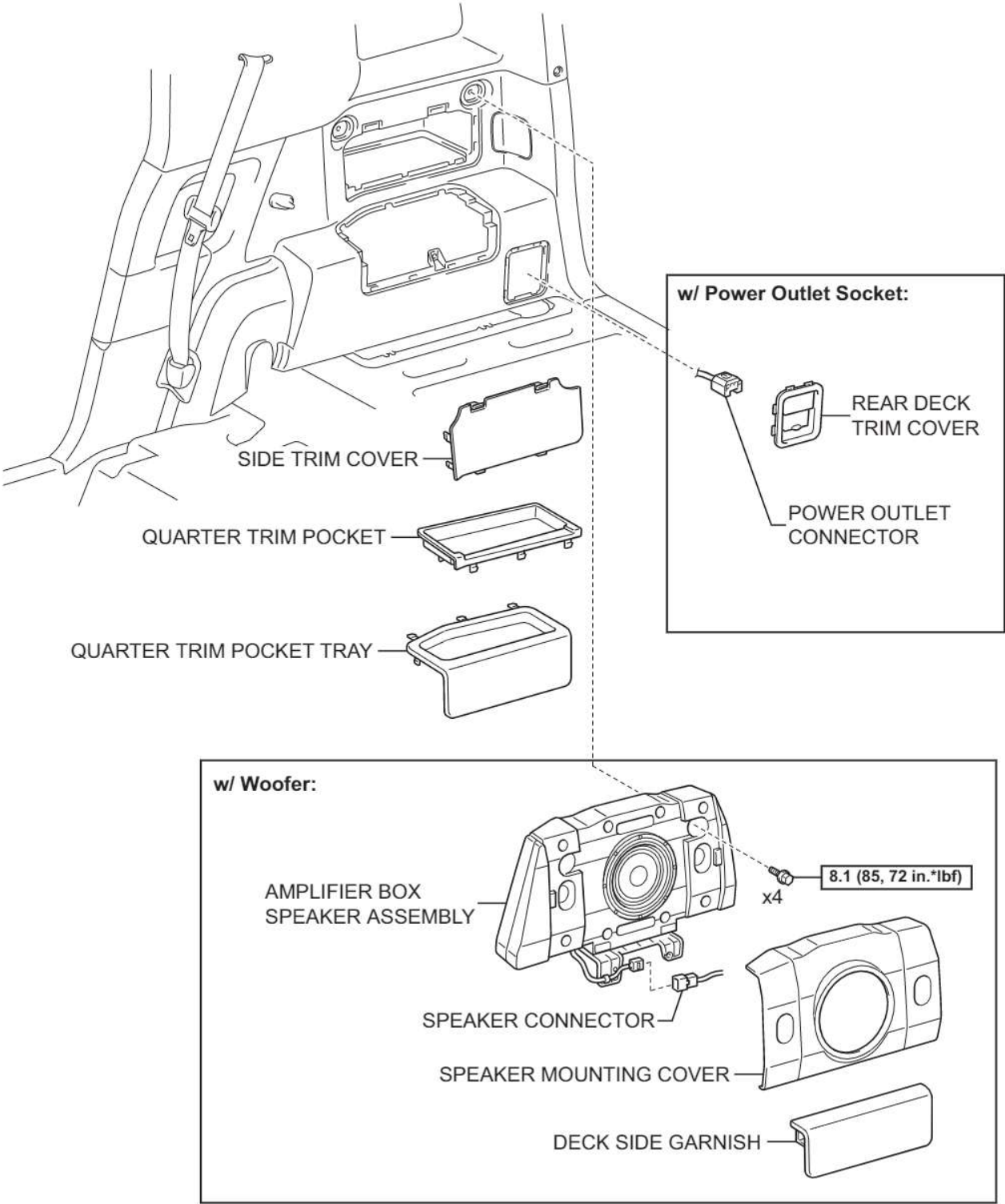
Y

B138381E01

SB-54

SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

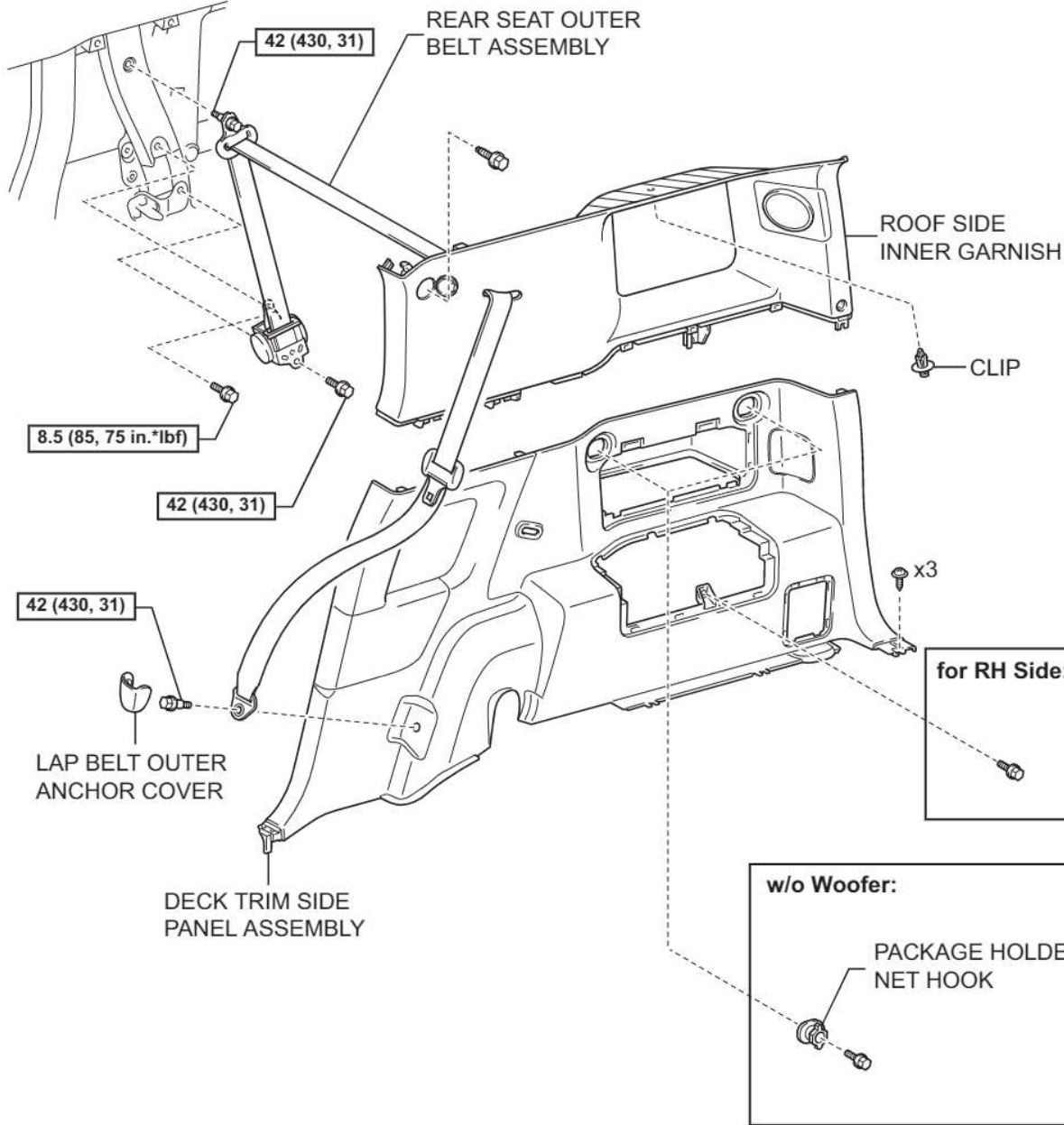
for RH Side:



N*m (kgf*cm, ft*lbf) : Specified torque

Y

B138473E01



N*m (kgf*cm, ft.*lbf) : Specified torque

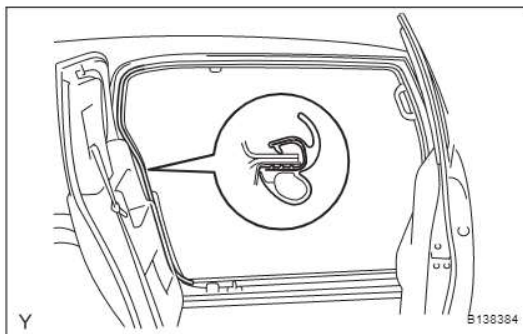
Y

B134993E01

SB-56**SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY****REMOVAL****HINT:**

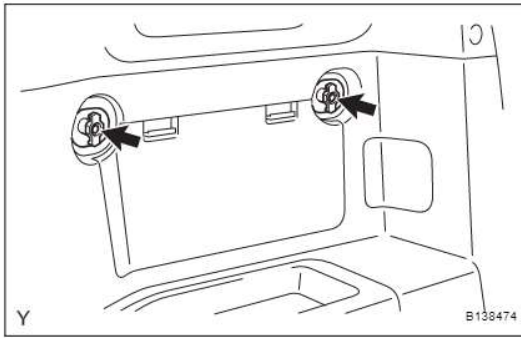
The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.

- 1. REMOVE CABLE FROM NEGATIVE BATTERY TERMINAL**
- 2. REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY**
 - (a) for RH Side:
 - (1) Remove the rear seatback board carpet assembly (See page [SE-43](#)).
 - (b) for LH Side:
 - (1) Remove the rear seatback board carpet assembly (See page [SE-29](#)).
- 3. REMOVE REAR SEATBACK ASSEMBLY**
 - (a) for RH Side:
 - (1) Remove the rear seatback assembly (See page [SE-43](#)).
 - (b) for LH Side:
 - (1) Remove the rear seatback assembly (See page [SE-29](#)).
- 4. REMOVE REAR FLOOR BOARD (See page [IR-13](#))**
- 5. REMOVE REAR FLOOR MAT SUPPORT PLATE (See page [IR-14](#))**
- 6. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (See page [IR-14](#))**
- 7. REMOVE REAR FLOOR MAT ASSEMBLY (See page [IR-15](#))**
- 8. REMOVE FRONT DOOR SCUFF PLATE (See page [IR-15](#))**
- 9. REMOVE ACCESS DOOR SCUFF PLATE (See page [IR-15](#))**
- 10. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP**
 - (a) Remove the front door opening trim weatherstrip to the extent that the deck trim side panel and the roof side inner garnish can be removed.
- 11. REMOVE DECK SIDE GARNISH (w/ Woofer) (See page [IR-18](#))**
- 12. REMOVE SPEAKER MOUNTING COVER (w/ Woofer) (See page [AV-90](#))**
- 13. REMOVE AMPLIFIER BOX SPEAKER ASSEMBLY (w/ Woofer) (See page [AV-90](#))**

**SB**

SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

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**14. REMOVE PACKAGE HOLDER NET HOOK (w/o Woofer)**

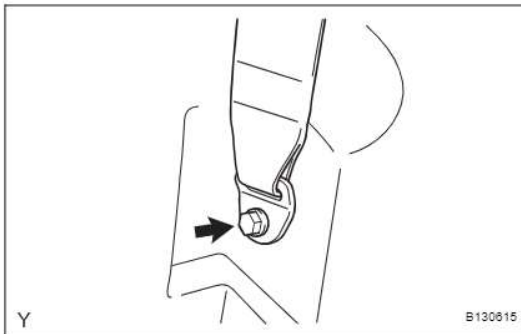
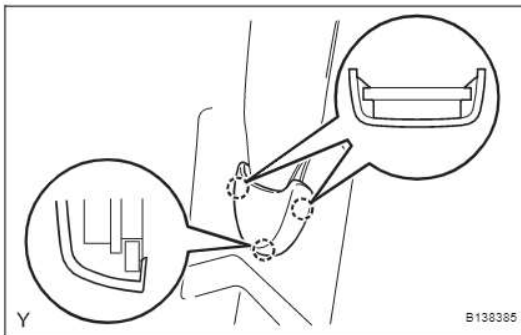
HINT:

Use the same procedure for both sides.

- (a) Remove the screw and the package holder net hook.

15. REMOVE QUARTER TRIM POCKET TRAY (w/o Woofer) (See page IR-19)**16. REMOVE SIDE TRIM COVER (w/o Woofer) (See page IR-19)****17. REMOVE QUARTER TRIM POCKET (w/o Woofer) (See page IR-19)****18. REMOVE LAP BELT OUTER ANCHOR COVER**

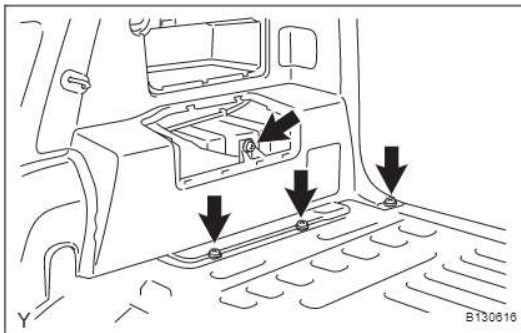
- (a) Disengage the 3 claws and remove the lap belt outer anchor cover.

19. REMOVE REAR DECK TRIM COVER (w/ Power Outlet Socket) (See page IR-20)**20. REMOVE DECK TRIM SIDE PANEL ASSEMBLY**

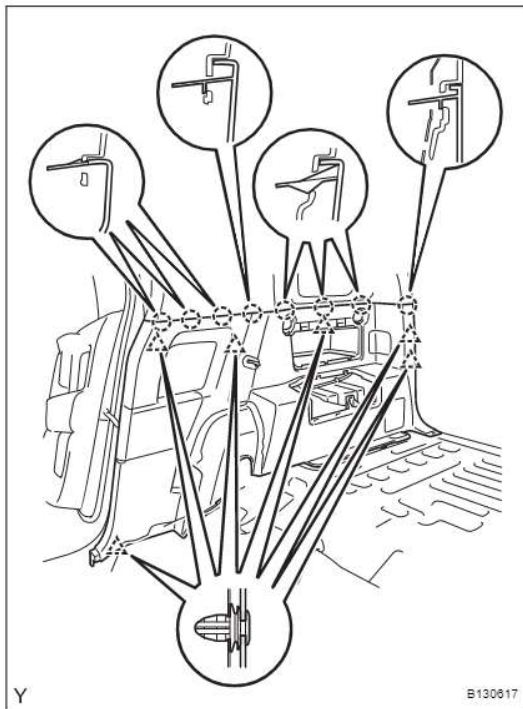
- (a) Remove the bolt and the anchor plate.

- (b) for RH Side:

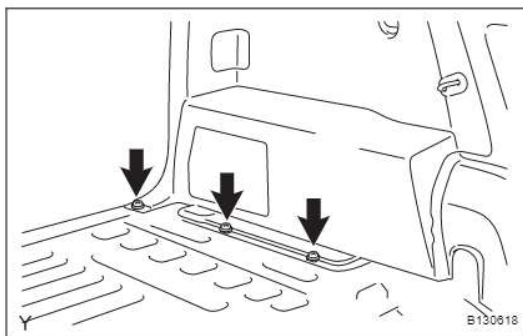
- (1) Remove the 4 screws.



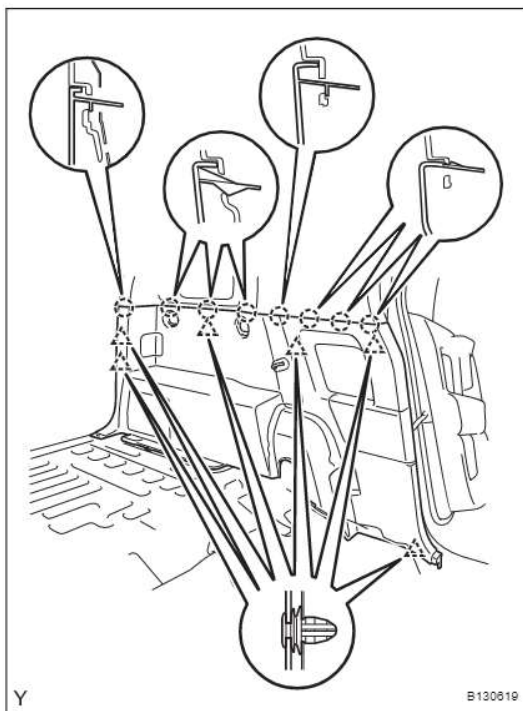
SB

SB-58**SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY**

- (2) Disengage the 6 clips and the 8 claws and remove the deck trim side panel.



- (c) for LH Side:
(1) Remove the 3 screws.

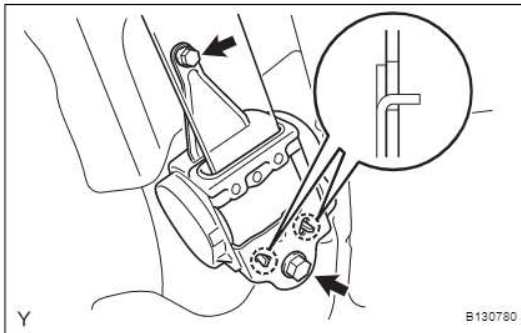


- (2) Disengage the 6 clips and the 8 claws and remove the deck trim side panel.

21. REMOVE ROOF SIDE INNER GARNISH (See page [IR-22](#))

SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY**SB-59****22. REMOVE REAR SEAT OUTER BELT ASSEMBLY**

(a) Remove the bolt and the through anchor.



(b) Remove the 2 bolts, 2 hooks and the retractor.

SB

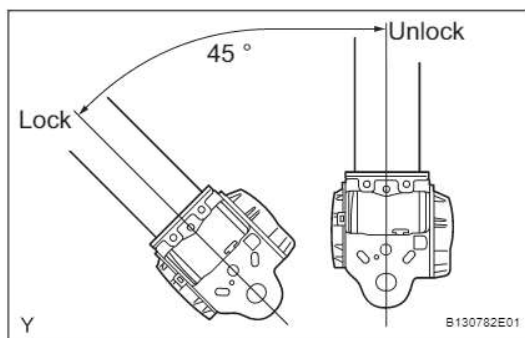
SB-60

SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

INSTALLATION

HINT:

The procedure described below is for the RH side. Use the same procedure for both the RH and LH sides, unless otherwise specified.



1. INSTALL REAR SEAT OUTER BELT ASSEMBLY

- (a) Check the angle of inclination required to lock the retractor.

- (1) Gently incline the retractor from its initial position. Check that the belt does not lock when the retractor is inclined 15° or less in any direction. Also, check that the belt locks when the inclination of the retractor is 45° or more.

NOTICE:

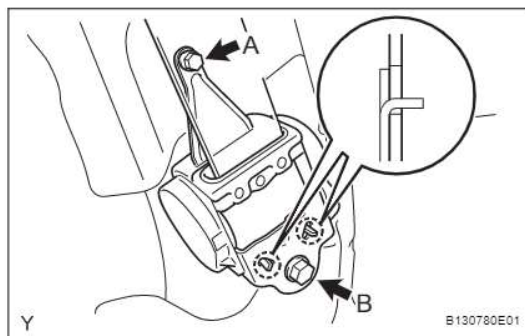
Do not disassemble the retractor.

If the operation is not as specified, replace the rear seat outer belt.

- (b) Hook the lower stay of the retractor onto the 2 body hooks and provisionally install the retractor with the 2 bolts.

- (c) Tighten bolt A and then bolt B.

**Torque: 8.5 N*m (85 kgf*cm, 75 in.*lbf) for bolt A
42 N*m (430 kgf*cm, 31 ft.*lbf) for bolt B**



- (d) Install the through anchor with the bolt.

Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)

- (e) Make sure that the shoulder anchor rotates smoothly.

- (f) Check that the ELR locks.

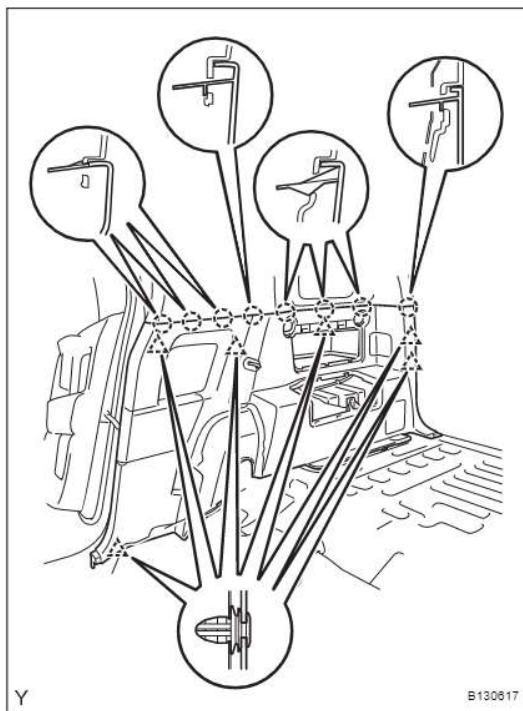
NOTICE:

Perform the check with the front seat outer belt installed.

- (1) With the belt installed, check that the belt locks when it is pulled out quickly.

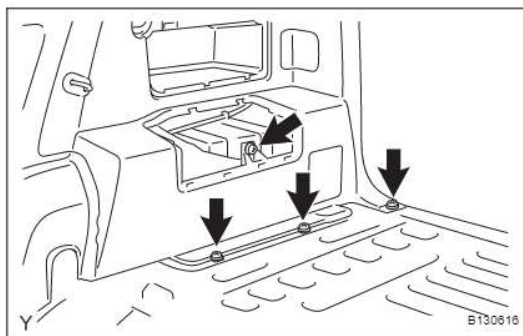
If the operation is not as specified, replace the rear seat outer belt.

2. INSTALL ROOF SIDE INNER GARNISH (See page [IR-38](#))

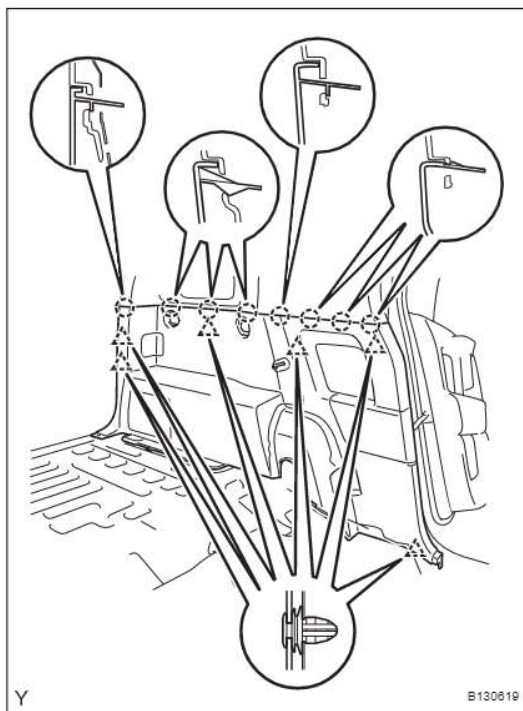
SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY**SB-61****3. INSTALL DECK TRIM SIDE PANEL ASSEMBLY**

(a) for RH Side:

- (1) Engage the 6 clips and the 8 claws and install the deck trim side panel.

SB

- (2) Tighten the 4 screws.

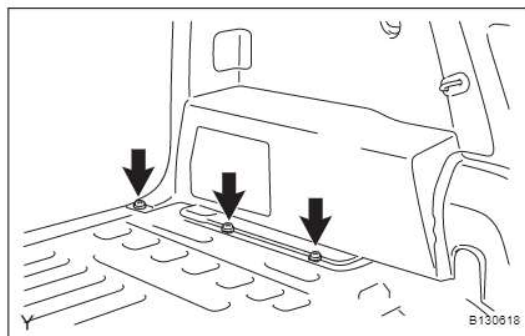


(b) for LH Side:

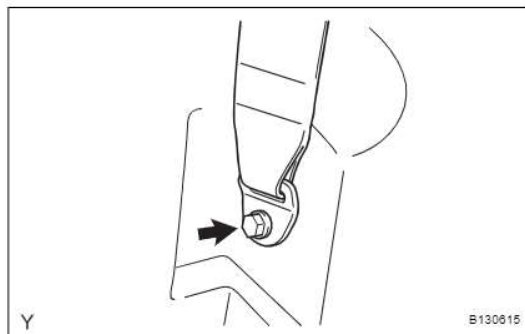
- (1) Engage the 6 clips and the 8 claws and install the deck trim side panel.

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SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY

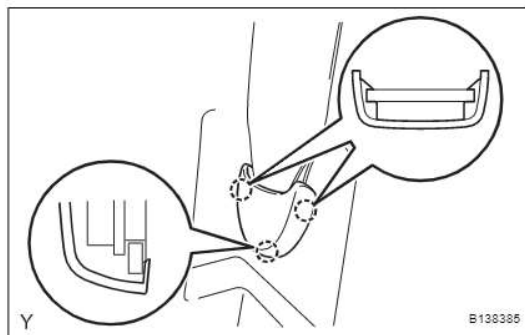


(2) Tighten the 3 screws.



- (c) Install the anchor plate with the bolt.
Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)
- (d) Make sure that the shoulder anchor plate rotates smoothly.

4. INSTALL REAR DECK TRIM COVER (w/ Power Outlet Socket) (See page [IR-40](#))



5. INSTALL LAP BELT OUTER ANCHOR COVER

- (a) Engage the 3 claws and install the lap belt outer anchor cover.

6. INSTALL AMPLIFIER BOX SPEAKER ASSEMBLY (w/ Woofer) (See page [AV-90](#))

7. INSTALL SPEAKER MOUNTING COVER (w/ Woofer) (See page [AV-91](#))

8. INSTALL DECK SIDE GARNISH (w/ Woofer) (See page [IR-41](#))

9. INSTALL QUARTER TRIM POCKET (w/o Woofer) (See page [IR-41](#))

10. INSTALL SIDE TRIM COVER (w/o Woofer) (See page [IR-42](#))

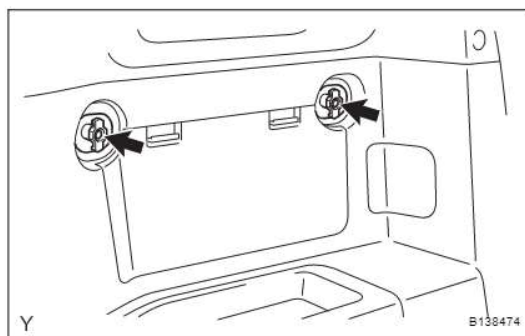
11. INSTALL QUARTER TRIM POCKET TRAY (w/o Woofer) (See page [IR-42](#))

12. INSTALL PACKAGE HOLDER NET HOOK (w/o Woofer)

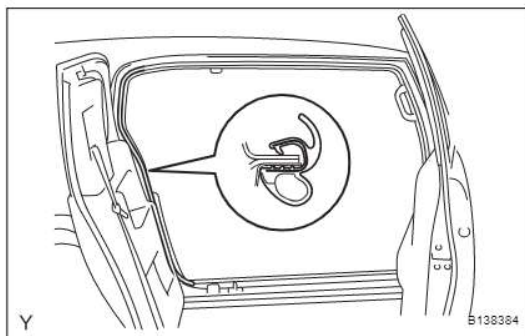
HINT:

Use the same procedure for both sides.

- (a) Install the package holder net hook with the screw.



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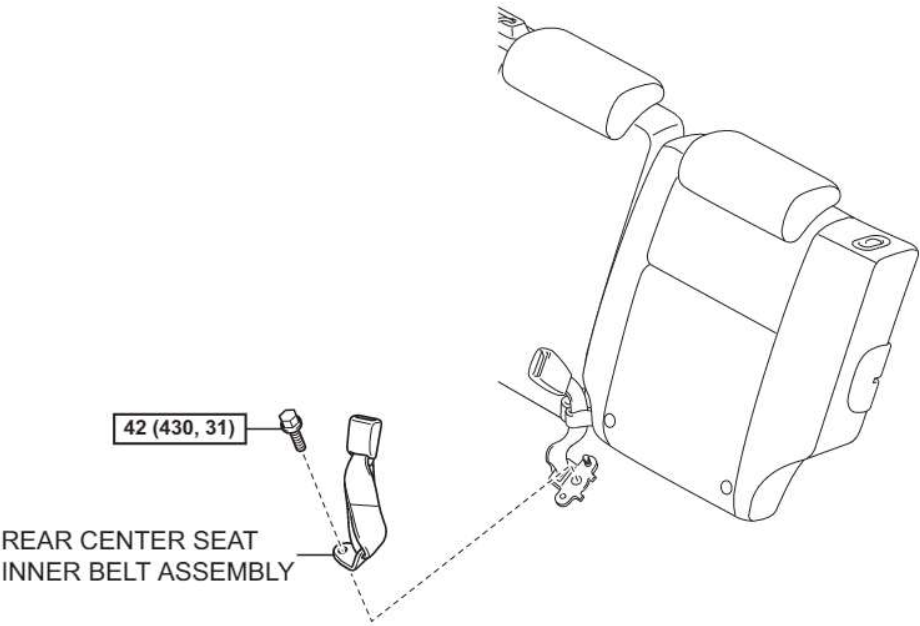
SEAT BELT – REAR SEAT OUTER BELT ASSEMBLY**SB-63**

- 13. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP**
(a) Install the front door opening trim weatherstrip.
- 14. INSTALL ACCESS DOOR SCUFF PLATE** (See page [IR-45](#))
- 15. INSTALL FRONT DOOR SCUFF PLATE** (See page [IR-45](#))
- 16. INSTALL REAR FLOOR MAT ASSEMBLY** (See page [IR-46](#))
- 17. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY** (See page [IR-46](#))
- 18. INSTALL REAR FLOOR MAT SUPPORT PLATE** (See page [IR-46](#))
- 19. INSTALL REAR FLOOR BOARD** (See page [IR-47](#))
- 20. INSTALL REAR SEATBACK ASSEMBLY**
 - (a) for RH Side:
 - (1) Install the rear seatback assembly (See page [SE-54](#)).
 - (b) for LH Side:
 - (1) Install the rear seatback assembly (See page [SE-38](#)).
- 21. INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY**
 - (a) for RH Side:
 - (1) Install the rear seatback board carpet assembly (See page [SE-54](#)).
 - (b) for LH Side:
 - (1) Install the rear seatback board carpet assembly (See page [SE-38](#)).
- 22. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

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REAR CENTER SEAT INNER BELT ASSEMBLY
COMPONENTS

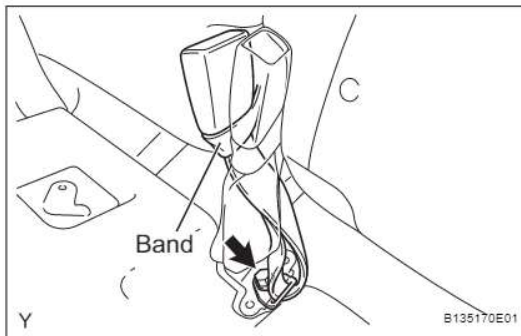
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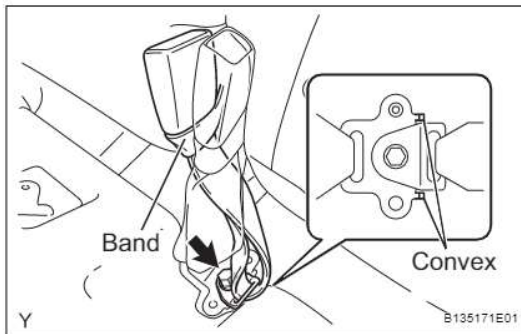
N*m (kgf*cm, ft*lbf) : Specified torque

Y

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SB-64**SEAT BELT – REAR CENTER SEAT INNER BELT ASSEMBLY****REMOVAL****1. REMOVE REAR CENTER SEAT INNER BELT ASSEMBLY**

- (a) Pull up the rear seat cushion.
- (b) Remove the buckle from the rear seatback band.
- (c) Remove the bolt and the rear center seat inner belt.

**INSTALLATION****1. INSTALL REAR CENTER SEAT INNER BELT ASSEMBLY**

- (a) Install the anchor plate of the rear center seat inner belt with the bolt.

Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)

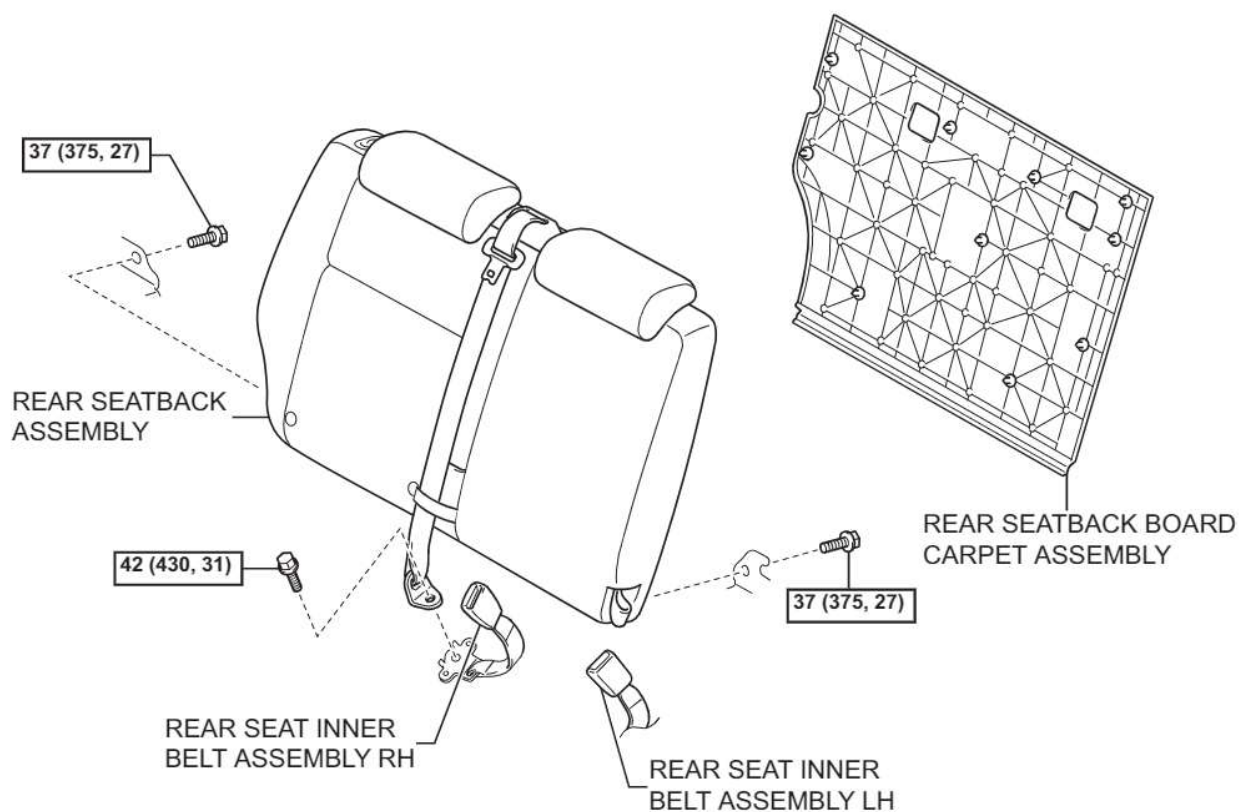
NOTICE:

Do not place the anchor plate over the convex areas of the rear seat inner belt.

- (b) Install the buckle into the rear seatback band.
- (c) Install the rear seat cushion.

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REAR CENTER SEAT OUTER BELT ASSEMBLY COMPONENTS



N*m (kgf*cm, ft*lb) : Specified torque

Y

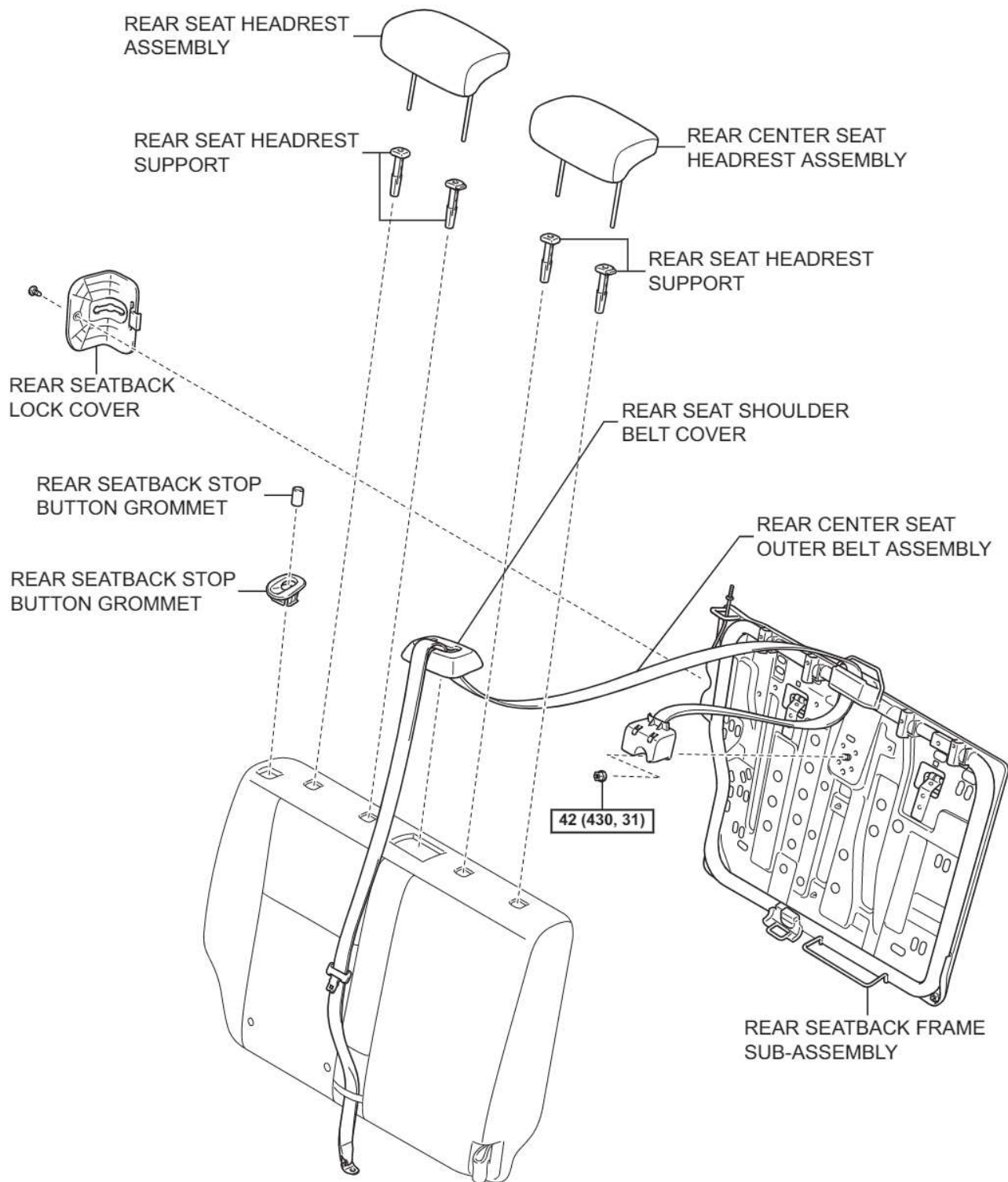
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SB-66

SEAT BELT – REAR CENTER SEAT OUTER BELT ASSEMBLY

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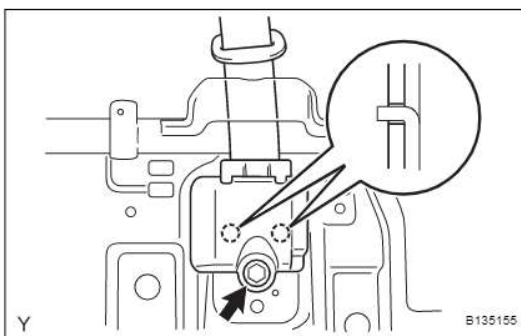
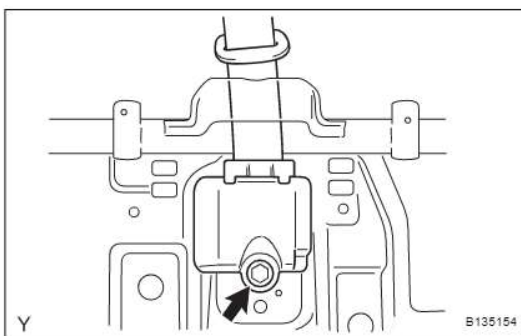
N*m (kgf*cm, ft*lb) : Specified torque

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REMOVAL

1. REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY (See page [SE-43](#))
2. REMOVE REAR SEATBACK ASSEMBLY (See page [SE-43](#))
3. REMOVE REAR SEAT HEADREST ASSEMBLY (See page [SE-45](#))
4. REMOVE REAR CENTER SEAT HEADREST ASSEMBLY (See page [SE-45](#))
5. REMOVE REAR SEAT SHOULDER BELT COVER (See page [SE-45](#))
6. REMOVE REAR SEATBACK LOCK COVER (See page [SE-45](#))
7. REMOVE REAR SEAT HEADREST SUPPORT (See page [SE-46](#))
8. REMOVE REAR SEATBACK LOCK RELEASE BUTTON (See page [SE-47](#))
9. REMOVE REAR SEATBACK STOP BUTTON GROMMET (See page [SE-47](#))
10. REMOVE REAR SEATBACK FRAME SUB-ASSEMBLY (See page [SE-47](#))
11. REMOVE REAR CENTER SEAT OUTER BELT ASSEMBLY
 - (a) Remove the nut and the rear center seat outer belt.



INSTALLATION

1. INSTALL REAR CENTER SEAT OUTER BELT ASSEMBLY
 - (a) Hook the stay of the retractor onto the 2 rear seatback frame hooks and install the retractor with the nut.
Torque: 42 N*m (430 kgf*cm, 31 ft.*lbf)
 - (b) Check that the ELR locks.
NOTICE:
Perform the check with the front seat outer belt installed.
 - (1) With the belt installed, check that the belt locks when it pulled out quickly.
 If the operation is not as specified, replace the rear seat outer belt.
2. INSTALL REAR SEATBACK FRAME SUB-ASSEMBLY (See page [SE-49](#))

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SB-68**SEAT BELT – REAR CENTER SEAT OUTER BELT ASSEMBLY**

3. **INSTALL REAR SEATBACK STOP BUTTON GROMMET** (See page [SE-50](#))
4. **INSTALL REAR SEATBACK LOCK RELEASE BUTTON** (See page [SE-51](#))
5. **INSTALL REAR SEAT HEADREST SUPPORT** (See page [SE-51](#))
6. **INSTALL REAR SEATBACK LOCK COVER** (See page [SE-52](#))
7. **INSTALL REAR SEAT SHOULDER BELT COVER** (See page [SE-52](#))
8. **INSTALL REAR CENTER SEAT HEADREST ASSEMBLY** (See page [SE-52](#))
9. **INSTALL REAR SEAT HEADREST ASSEMBLY** (See page [SE-52](#))
10. **INSTALL REAR SEATBACK ASSEMBLY** (See page [SE-54](#))
11. **INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY** (See page [SE-54](#))

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