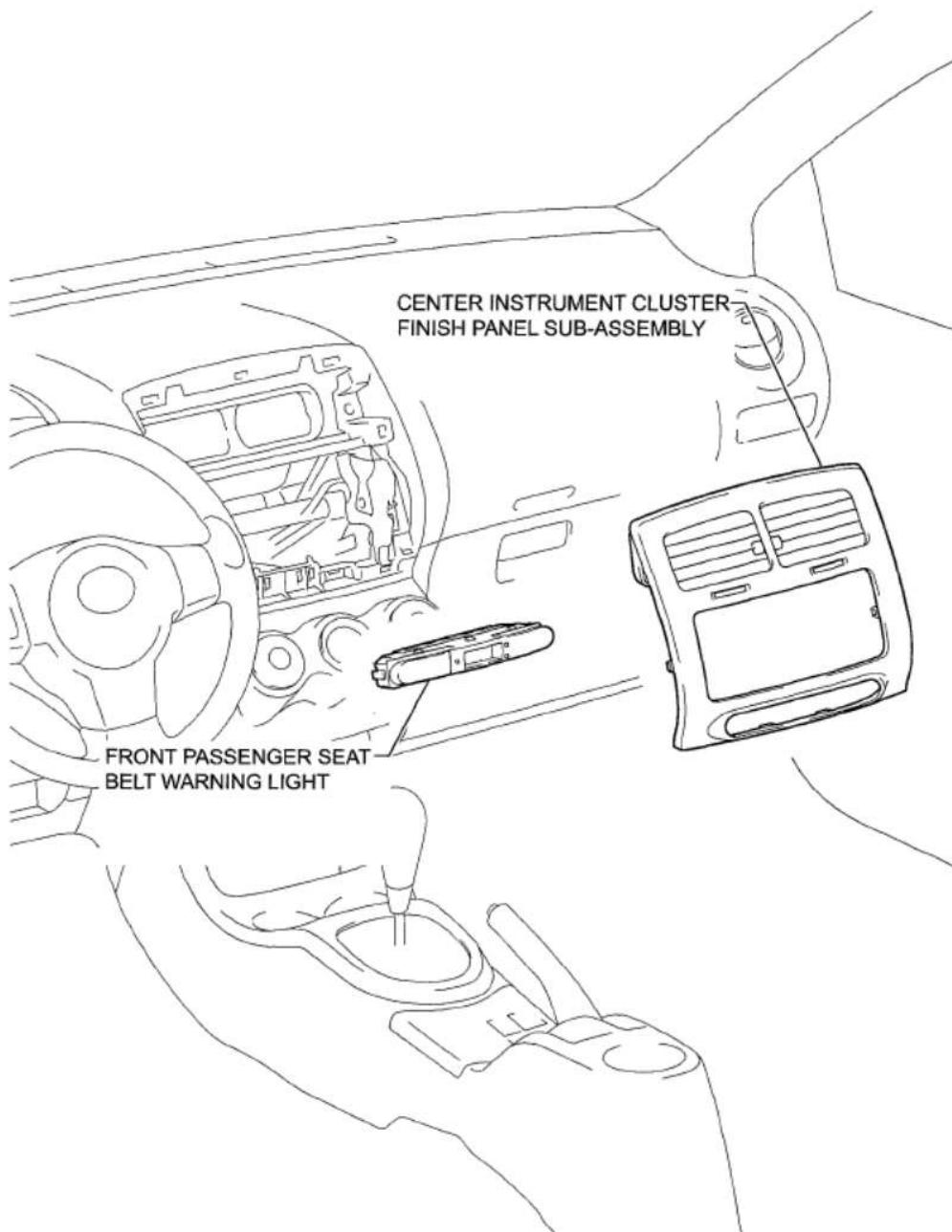


2008 Scion xD**2008 RESTRAINTS Seat Belt - xD****2008 RESTRAINTS****Seat Belt - xD****FRONT PASSENGER SEAT BELT WARNING LIGHT****COMPONENTS**

E161050C02

2008 Scion xD

2008 RESTRAINTS Seat Belt - xD

Fig. 1: Identifying Front Passenger Seat Belt Warning Light Components

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE CENTER INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY** (See **REMOVAL**)
3. **REMOVE FRONT PASSENGER SEAT BELT WARNING LIGHT**
 - a. Disengage the 7 claws and remove the passenger seat belt warning lamp assembly.

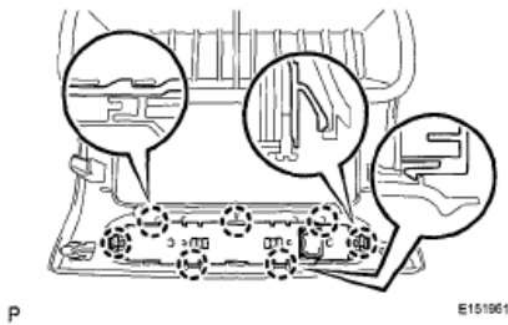


Fig. 2: Identifying Claws On Passenger Seat Belt Warning Lamp Assembly

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT FRONT PASSENGER SEAT BELT WARNING LIGHT**
 - a. Check the operation.
 1. Apply battery voltage to the terminals and check that the indicator illuminates.

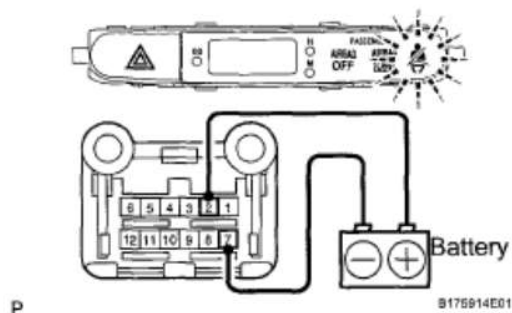


Fig. 3: Applying Battery Voltage To Terminals

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK

2008 Scion xD
2008 RESTRAINTS Seat Belt - xD

VOLTAGE SPECIFICATIONS

Measurement	Specified Condition
Positive battery - Terminal 2 (IG+) Negative battery - Terminal 7 (PBEW)	Illuminates

If the result is not as specified, replace the front passenger seat belt warning light.

INSTALLATION

1. INSTALL FRONT PASSENGER SEAT BELT WARNING LIGHT
- a. Engage the 7 claws and install the passenger seat belt warning lamp assembly.

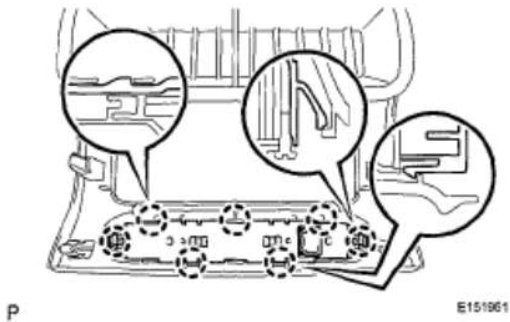


Fig. 4: Identifying Claws On Passenger Seat Belt Warning Lamp Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL CENTER INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY (See INSTALLATION)
3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

SEAT BELT WARNING SYSTEM

PARTS LOCATION

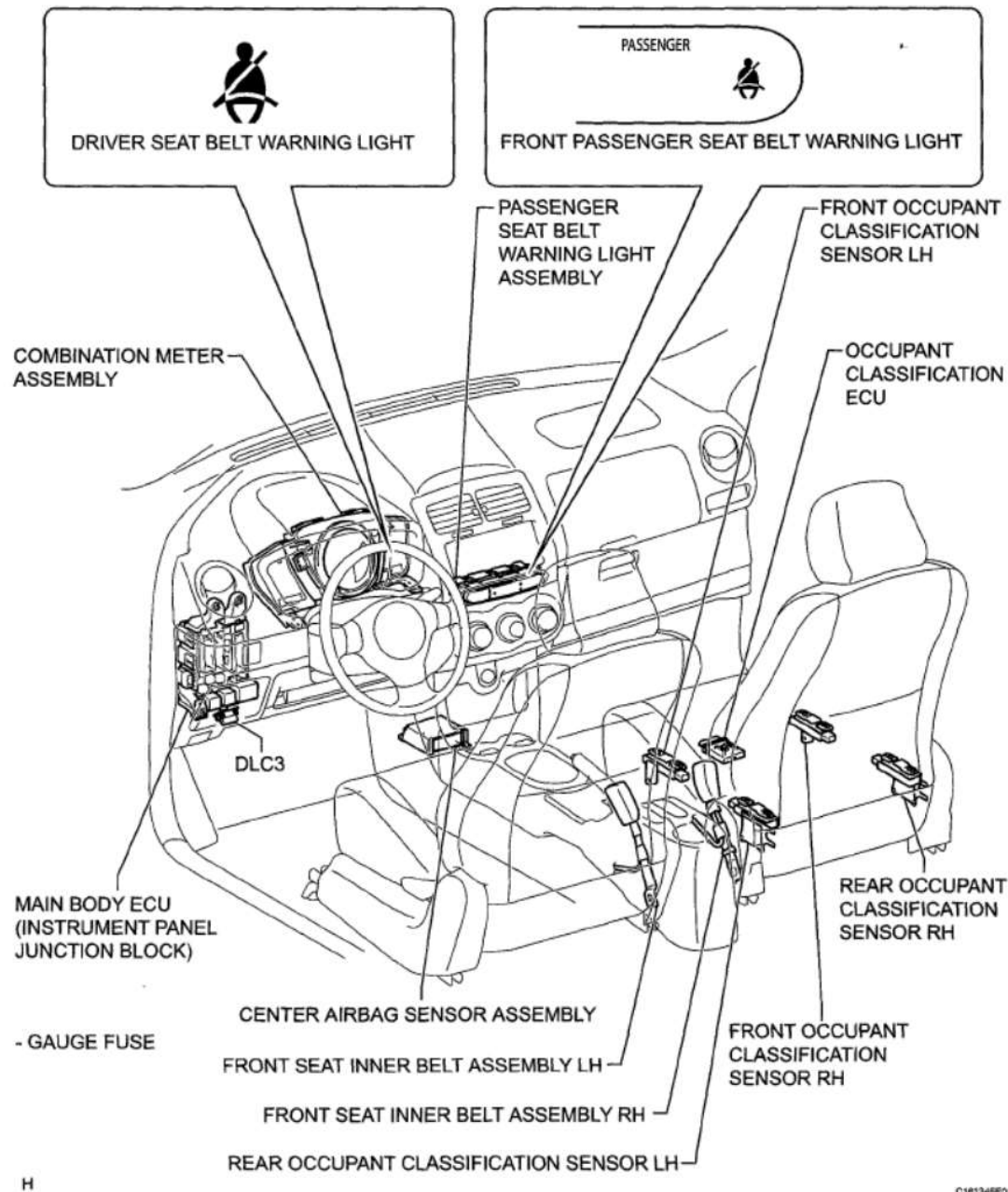
2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

Fig. 5: Identifying Seat Belt Warning System Parts Location
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SYSTEM DIAGRAM

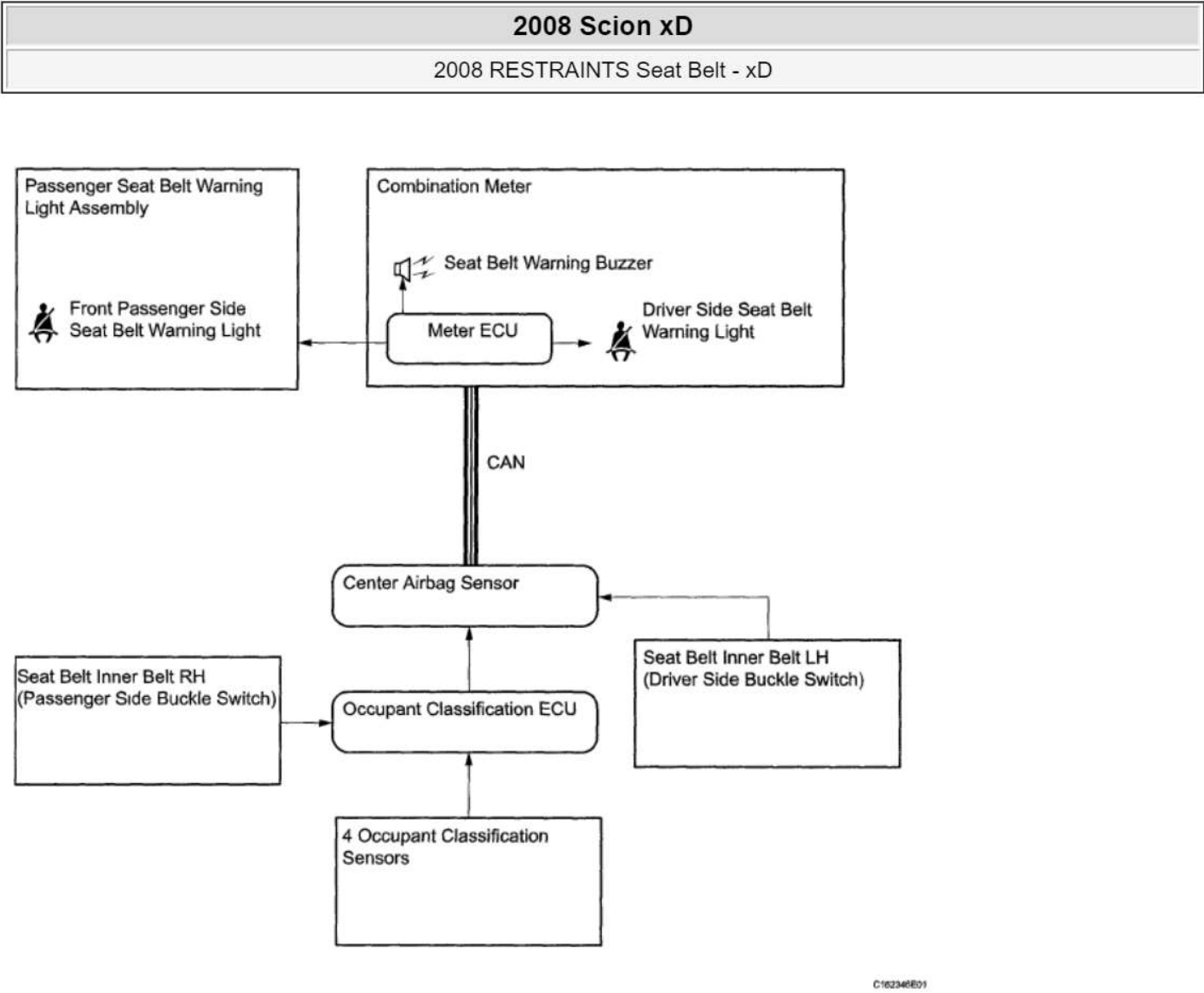


Fig. 6: System Diagram
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Communication Table

COMMUNICATION TABLE

Sender	Receiver	Signal	Line
Center Airbag Sensor	Meter ECU	• Front seat inner belt switch signal (for driver side) • Front seat inner belt switch signal (for passenger side) • Occupant detection signal	CAN

SYSTEM DESCRIPTION

1. SEAT BELT WARNING SYSTEM DESCRIPTION

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

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

a. Seat belt warning light (for driver side):

When the driver seat belt is not fastened with the ignition switch ON, the driver seat belt warning light on the combination meter blinks to inform the driver. The center airbag sensor detects the driver seat belt status and sends signals to the meter ECU using CAN.

b. Passenger seat belt warning light (for front passenger side):

When the passenger seat belt is not fastened with the ignition switch ON and the passenger seat occupied, the passenger seat belt warning light on the passenger seat belt warning light assembly blinks. The meter ECU displays the passenger seat belt status and whether the passenger seat is occupied.

c. Seat belt warning buzzer:

1. When the ignition switch is turned to ON while the driver seat belt is not fastened, the seat belt warning buzzer in the combination meter sounds at an interval of 1.2 seconds 5 times.
2. When the vehicle is driven at approximately 20 km/h (12 mph) or more while the driver or front passenger seat belt is not fastened, the buzzer sounds at an interval of 1.2 seconds for 9.6 seconds, and then the buzzer sounds at an interval of 0.4 seconds for 20 seconds.

2. FUNCTION OF MAIN COMPONENTS

The following functions are available.

FUNCTION OF MAIN COMPONENTS

Components	Function
Front seat inner belt LH (driver side buckle switch)	Informs center airbag sensor of driver seat belt condition (fastened or unfastened)
Front seat inner belt RH (passenger side buckle switch)	Informs center airbag sensor of front passenger seat belt condition (fastened or unfastened)
Occupant classification sensor	Informs center airbag sensor of front passenger seat condition (occupied or unoccupied)
Driver seat belt warning light	If driver seat belt is unfastened and ignition switch is ON, meter ECU flashes seat belt warning light of combination meter 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, meter ECU flashes seat belt warning light on passenger seat belt warning light assembly as reminder
Seat belt warning buzzer	If driver or passenger seat belt is unfastened and ignition switch is ON, meter ECU sounds buzzer as reminder

HOW TO PROCEED WITH TROUBLESHOOTING**HINT:**

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

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2008 RESTRAINTS Seat Belt - xD

- *: Use a Techstream.

1. **VEHICLE BROUGHT TO WORKSHOP**
2. **INSPECT BATTERY VOLTAGE**

Standard voltage: 11 to 14 V

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

3. **CHECK FOR DTC***
 - a. Check for DTCs and make a note of any codes that are output.
 - b. Clear the DTCs.
 - c. Recheck for DTCs. Based on the DTCs output above, try to cause the output of the same CAN system DTC, airbag system DTC or occupant classification system DTC by simulating the symptoms indicated by the DTC.

Result

RESULT REFERENCE

Result	Proceed to
DTC output does not reoccur	A
CAN communication system DTC output reoccurs	B
Airbag system DTC output reoccurs	C
Occupant classification system DTC output reoccurs	D

B: Go to CAN COMMUNICATION SYSTEM (See DIAGNOSIS SYSTEM)

C: Go to AIRBAG SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

D: Go to OCCUPANT CLASSIFICATION SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

A: Go to next step

4. **PROBLEM SYMPTOMS TABLE**
 - a. Refer to PROBLEM SYMPTOMS TABLE .
5. **OVERALL ANALYSIS AND TROUBLESHOOTING***
 - a. Operation Check (See OPERATION CHECK)
 - b. Data List / Active Test (See DATA LIST / ACTIVE TEST)
 - c. Terminals of ECU (See TERMINALS OF ECU)
6. **REPAIR OR REPLACE**
7. **CONFIRMATION TEST**

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

END

OPERATION CHECK**1. INSPECT DRIVER SIDE SEAT BELT WARNING LIGHT**

- a. Turn the ignition switch to ON.
- b. When the driver seat belt is not fastened, check that the driver seat belt warning light on the combination meter blinks.
- c. When the driver seat belt is fastened, check that the driver seat belt warning seat belt warning light on the combination meter is off.

2. INSPECT PASSENGER SIDE SEAT BELT WARNING LIGHT

- a. Turn the ignition switch to ON.
- b. When the front passenger seat belt is not fastened with the passenger seat occupied, check that the front passenger seat belt warning light on the passenger seat belt warning light assembly blinks.
- c. When the front passenger seat belt is fastened with the passenger seat occupied, check that the front passenger seat belt warning light on the passenger seat belt warning light assembly is off.

3. INSPECT SEAT BELT WARNING BUZZER

HINT:

If the buzzer does not sound, the buzzer cancel setting may be set to ON (See **CUSTOMIZE PARAMETERS**).

- a. When the ignition switch is turned to ON while the driver seat belt is not fastened, check that the seat belt warning buzzer in the combination meter sounds at an interval of 1.2 seconds 5 times.
- b. Place a weight of 20 kg (44.0 lb) on the front passenger seat.
- c. When the vehicle is driven at approximately 20 km/h (12 mph) or more while the driver or front passenger seat belt is not fastened, check that the buzzer sounds at an interval of 1.2 seconds for 9.6 seconds, and then the buzzer sounds at an interval of 0.4 seconds for 20 seconds.
- d. Check that the buzzer stops 30 seconds after the buzzer starts sounding.
- e. After the buzzer has stopped, turn the ignition switch off and then start the engine again. Drive the vehicle at approximately 20 km/h (12 mph) or more with the driver or front passenger seat belt not fastened, and then check that the buzzer sounds again.
- f. After the buzzer has stopped, fasten the driver and front passenger seat belts. Drive the vehicle at approximately 20 km/h (12 mph) or more and unfasten the driver or front passenger seat belt, and then check that the buzzer sounds again.
- g. After the buzzer has stopped, move the shift lever to the R position, and then move it to the D position. Drive the vehicle at approximately 20 km/h (12 mph) or more, and then check that the buzzer sounds again.

CUSTOMIZE PARAMETERS**1. CUSTOMIZING FUNCTION WITH TECHSTREAM (REFERENCE)**

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NOTE:

- When the customer requests a change in a function, first make sure that the function can be customized.
- Be sure to make a note of the current settings before customizing.
- When troubleshooting a function, first make sure that the function is set to the default setting.

- a. Connect a Techstream to the DLC3.
- b. Turn the ignition switch to ON.
- c. Turn the tester on.
- d. Enter the following menus: Utility / Customize /
- e. Select the setting by referring to the table below.

Warning
TESTER DISPLAY

Tester Display	Default	Contents	Setting
D-Seatbelt Warning Buzzer	ON	Seat belt warning buzzer ON / OFF setting	ON Driver buzzer ON OFF Driver buzzer OFF
P-Seatbelt Warning Buzzer	ON	Seat belt warning buzzer ON / OFF setting	ON Passenger buzzer ON OFF Passenger buzzer OFF

HINT:

When the buzzer OFF setting is selected, the buzzer activation while the vehicle is being driven is cancelled. However, the buzzer activation when the ignition switch is turned to ON cannot be cancelled.

PROBLEM SYMPTOMS TABLE
HINT:

Use the table below to help determine the cause 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
PROBLEM SYMPTOMS - SEAT BELT WARNING SYSTEM

Symptom	Suspected Area	See
	CAN communication system	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

Driver seat belt warning light does not operate	Airbag system	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>
	Combination meter	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>
	Center airbag sensor	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>
	Front seat inner belt LH	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>
	Harness or connector	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>
Front passenger seat belt warning light does not operate	CAN communication system	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Airbag system	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Occupant classification system	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Combination meter	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Harness or connector	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Passenger seat belt warning light assembly	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Front seat inner belt RH	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>

TERMINALS OF ECU**1. CHECK COMBINATION METER**

B168602E01

Fig. 7: Identifying Terminals Of ECU

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

CONNECTOR TERMINAL REFERENCE

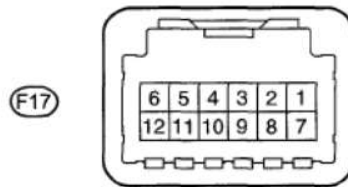
Terminal No. (Symbol)	Wiring Color	Terminal Description	Condition	Specified Condition
--------------------------	-----------------	----------------------	-----------	------------------------

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F1-23 (PBLT) - Body ground	O - Body ground	Front passenger seat belt warning light signal	Front passenger seat is occupied, seat belt is fastened	11 to 14 V
			Front passenger seat is occupied, seat belt is unfastened	Below 1 V

2. CHECK PASSENGER SEAT BELT WARNING LIGHT

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



P

E129452E17

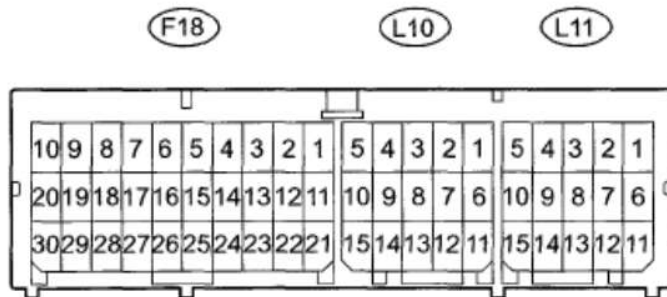
Fig. 8: Identifying Passenger Seat Belt Warning Light Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CONNECTOR TERMINAL REFERENCE

Terminal No. (Symbol)	Wiring Color	Terminal Description	Condition	Specified Condition
F17-2 (IG+) - Body ground	Y - Body ground	Power source (GAUGE fuse)	Ignition switch ON	11 to 14 V
F17-7 (PBEW) - Body ground	O - Body ground	Front passenger seat belt warning light signal	Front passenger seat is occupied, seat belt is fastened	11 to 14 V
			Front passenger seat is occupied, seat belt is unfastened	Below 1 V

3. CENTER AIRBAG SENSOR

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2008 RESTRAINTS Seat Belt - xD



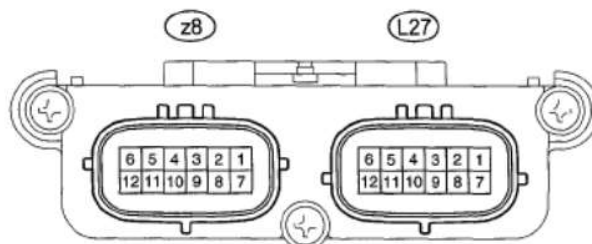
8160519E03

Fig. 9: Identifying Center Airbag Sensor Connector Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CONNECTOR TERMINAL REFERENCE

Terminal No.	Terminal Symbol	Destination
L10-11	DBE+	Front seat inner belt LH (Seat belt buckle switch LH)
L10-12	DBE-	Front seat inner belt LH (Seat belt buckle switch LH)
L11-12	FSP+	Occupant classification ECU
L11-13	FSP-	Occupant classification ECU

4. CHECK OCCUPANT CLASSIFICATION ECU



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Fig. 10: Identifying Occupant Classification ECU Connector Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

CONNECTOR TERMINAL REFERENCE

Terminal No. (Symbol)	Wiring Color	Terminal Description	Condition	Specified Condition
L27-1 (+B) - L27-3 (GND)	V - W-B	Battery	Ignition switch ON	11 to 14 V
L27-2 (DIA) - L27-3 (GND)	G - W-B	Diagnosis (DLC3)	Ignition switch ON	Pulse generation
L27-3 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 ohms

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L27-4 (FSR-) - L27-3 (GND)	Y - W-B	Center airbag sensor communication ground line	Always	Below 1 ohms
L27-5 (BGND) - L27-3 (GND)	P - W-B	Passenger side buckle switch ground line	Always	Below 1 ohms
L27-7 (IG) - L27-3 (GND)	O - W-B	Power source (IGN fuse)	Ignition switch ON	11 to 14 V
L27-8 (FSR+) - L27-4 (FSR-)	GR - Y	Center airbag sensor communication line	Ignition switch ON	Pulse generation
L27-9 (BSW) - L27-5 (BGND)	O - P	Passenger side buckle switch line	Seat belt is fastened	12 to 18 mA
			Seat belt is unfastened	4 to 7 mA
z8-1 (SGD1) - L27-3 (GND)	G - W-B	Front occupant classification sensor LH ground line	Always	Below 1 ohms
z8-2 (SGD2) - L27-3 (GND)	O - W-B	Front occupant classification sensor RH ground line	Always	Below 1 ohms
Z8-3 (SGD3) - L27-3 (GND)	W - W-B	Rear occupant classification sensor LH ground line	Always	Below 1 ohms
z8-4 (SGD4) - L27-3 (GND)	BR - W-B	Rear occupant classification sensor RH ground line	Always	Below 1 ohms
Z8-11 (SVC1) - z8-1 (SGD1)	R - G	Front occupant classification sensor LH power supply line	Ignition switch ON, load is applied to front occupant classification sensor LH	45 to 51 V
z8-12 (SVC2) - z8-2 (SGD2)	W - 0	Front occupant classification sensor RH power supply line	Ignition switch ON, load is applied to front occupant classification sensor RH	45 to 51 V
z8-5 (SVC3) - z8-3 (SGD3)	GR - W	Rear occupant classification sensor LH power supply line	Ignition switch ON, load is applied to rear occupant classification sensor LH	45 to 51 V
z8-6 (SVC4) - z8-4 (SGD4)	V - BR	Rear occupant classification sensor RH power supply line	Ignition switch ON, load is applied to rear occupant classification sensor RH	45 to 51 V
z8-7 (SIG1) - z8-1 (SGD1)	SB - G	Front occupant classification sensor LH signal line	Ignition switch ON, load is applied to front occupant classification sensor LH	Pulse generation
z8-8 (SIG2) - z8-2 (SGD2)	L - O	Front occupant classification sensor RH signal line	Ignition switch ON, load is applied to front occupant classification sensor RH	Pulse generation
z8-9 (SIG3) - z8-3 (SGD3)	Y - W	Rear occupant classification sensor LH signal line	Ignition switch ON, load is applied to rear occupant classification sensor LH	Pulse generation
z8-10 (SIG4) - z8-4 (SGD4)	R-BR	Rear occupant classification sensor RH signal line	Ignition switch ON, load is applied to rear occupant classification sensor RH	Pulse generation

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD****DATA LIST / ACTIVE TEST****1. READ DATA LIST****HINT:**

Using a Techstream to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

NOTE: In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

- Turn the ignition switch off.
- Connect a Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the tester on.
- Enter the following menus: Body Electrical / (desired system) / Data List /
- According to the display on tester, read the "Data List".

Combination Meter**DATA LIST - COMBINATION METER**

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
D-Seatbelt Warning Buzzer	Driver seat belt warning buzzer ON or OFF	ON Driver seat belt warning buzzer ON setting OFF Driver seat belt warning buzzer OFF setting	-
P-Seatbelt Warning Buzzer	Front passenger seat belt warning buzzer ON or OFF	ON Front passenger seat belt warning buzzer ON setting OFF Front passenger seat belt warning buzzer OFF setting	-

SRS Airbag**DATA LIST - SRS AIRBAG**

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
	Passenger classification NG Data is not determined OFF Vacant		

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

Passenger Classification	Child Child (less than 36 kg (79 37 lb)) is seated AF05 Adult (36 to 54 kg (79 37 to 119 05 lb)) is seated AM50 Adult (more than 54 kg (119 05 lb)) is seated Fail A failure is detected	OFF, Child, AF05 or AM50	-
Driver Buckle SW	Driver seat belt buckle switch Unset Driver seat belt is unfastened Set Driver seat belt is fastened NG Data is not determined	Unset or Set	-
Passenger Buckle SW	Front passenger seat belt buckle switch Unset Front passenger seat belt is unfastened Set Front passenger seat belt is fastened NG Data is not determined	Unset or Set	-

Occupant Detection**DATA LIST - OCCUPANT DETECTION**

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Passenger Classification	Passenger classification NG Data is not determined OFF Vacant Child Child (less than 36 kg (79 37 lb)) is seated AF05 Adult (36 to 54 kg (79 37 to 119 05 lb)) is seated AM50 Adult (more than 54 kg (119 05 lb)) is seated Fail A failure is detected	OFF, Child, AF05 or AM50	-
Passenger Buckle SW	Front passenger seat belt buckle switch Unset Front passenger seat belt is unfastened Set Front passenger seat belt is fastened NG Data is not determined	Unset or Set	-

2. PERFORM ACTIVE TEST**HINT:**

Using a Techstream to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

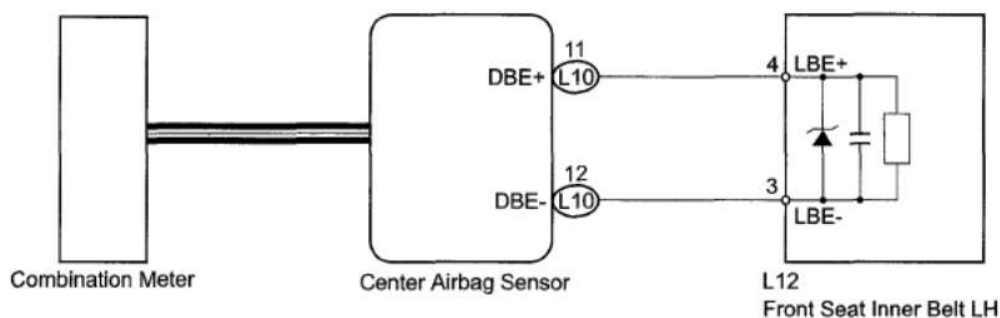
- Turn the ignition switch off.
- Connect a Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the tester on.
- Enter the following menus: Body Electrical / Combination Meter / Active Test /
- According to the display on tester, perform the "Active Test".

Combination Meter**ACTIVE TEST - COMBINATION METER**

Tester Display	Test Part	Control Range	Diagnostic Note
Indicat Lamp P-seat Belt	Front passenger seat belt warning light	ON or OFF	Confirm that the vehicle is stopped with the engine idling
Indicat Lamp D-seat Belt	Driver seat belt warning light	ON or OFF	Confirm that the vehicle is stopped with the engine idling

DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE**DESCRIPTION**

When the ignition switch is ON, the center airbag sensor transmits the front seat inner belt state signal to the combination meter through CAN. If the driver seat belt is not fastened, the combination meter blinks the driver seat belt warning light. If the seat belt is fastened, the warning light goes off.

WIRING DIAGRAM

== : CAN Communication Line

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Fig. 11: Driver Side Seat Belt Warning Light - Wiring Diagram

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION PROCEDURE

2008 Scion xD

2008 RESTRAINTS Seat Belt - xD

1. CHECK FOR DTC

- a. Check for DTCs.

Result:

RESULT REFERENCE

Result	Proceed to
DTC output does not occur	A
CAN system DTC output occurs	B
Airbag system DTC output occurs	C

B: Go to CAN COMMUNICATION SYSTEM (See DIAGNOSIS SYSTEM)

C: Go to AIRBAG SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

A: Go to next step

2. PERFORM ACTIVE TEST USING TECHSTREAM

- a. Operate a Techstream according to the steps on the display and select "Active Test".

Combination Meter

ACTIVE TEST - COMBINATION METER

Tester Display	Test Part	Control Range	Diagnostic Note
Indicat Lamp D-seat Belt	Driver seat belt warning light	ON or OFF	Confirm that the vehicle is stopped with the engine idling

OK: Driver seat belt warning light condition can be switched by "Active Test".

NG: REPLACE COMBINATION METER (See REMOVAL)

OK: Go to next step

3. REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

- a. Temporarily replace the front seat inner belt LH with a new or normally functioning one (See REMOVAL).

4. CHECK DRIVER SEAT BELT WARNING LIGHT

- a. Check the driver seat belt warning light function (See OPERATION CHECK).

OK: Driver seat belt warning light operates normally.

NG: REPLACE COMBINATION METER (See REMOVAL)

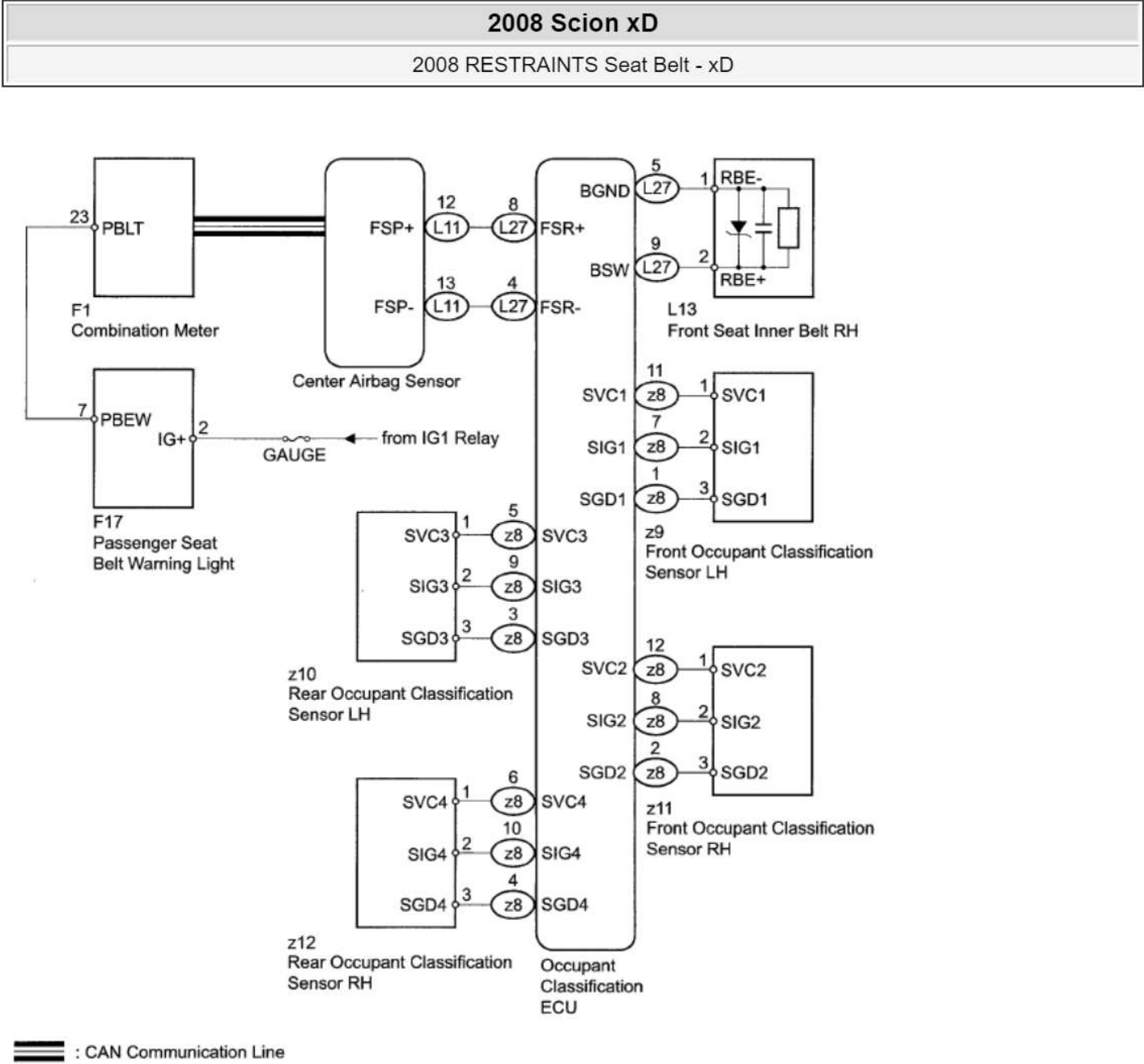
2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

OK : END (FRONT SEAT INNER BELT LH IS DEFECTIVE)

FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION**DESCRIPTION**

The occupant classification ECU detects the state of the front seat inner belt RH when the front passenger seat is occupied with the ignition switch ON. The occupant classification ECU transmits the front passenger seat belt state signal to the combination meter. If the front passenger seat belt is not fastened, the combination meter blinks the front seat belt warning light on the passenger seat belt warning light. If the seat belt is fastened, the warning light goes off.

WIRING DIAGRAM



INSPECTION PROCEDURE

1. CHECK FOR DTC
- a. Check for DTCs.

Result:

RESULT REFERENCE

Result	Proceed to
--------	------------

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

DTC does not occur	A
CAN communication system DTC output occurs	B
Airbag system DTC output occurs	C
Occupant classification system DTC output occurs	D

B: Go to CAN COMMUNICATION SYSTEM (See DIAGNOSIS SYSTEM)

C: Go to AIRBAG SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

D: Go to OCCUPANT CLASSIFICATION SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

A: Go to next step

2. INSPECT FUSE (GAUGE)

- Remove the GAUGE fuse from the main body ECU.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Condition	Specified Condition
GAUGE fuse	Always	Below 1 ohms

NG: REPLACE FUSE

Main Body ECU:

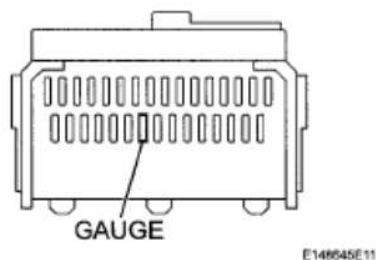


Fig. 13: Identifying GAUGE Fuse From Main Body ECU
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Go to next step

3. PERFORM ACTIVE TEST USING TECHSTREAM

- Operate a Techstream according to the steps on the display and select "Active Test".

Combination Meter

2008 Scion xD
2008 RESTRAINTS Seat Belt - xD

ACTIVE TEST - COMBINATION METER

Tester Display	Test Part	Control Range	Diagnostic Note
Indicat Lamp P-seat Belt	Passenger seat belt warning light	ON or OFF	Confirm that the vehicle is stopped with the engine idling

OK: Passenger seat belt warning light condition can be switched by "Active Test".

NG: Go to step 6

OK: Go to next step

4. REPLACE FRONT SEAT INNER BELT ASSEMBLY RH

- a. Temporarily replace the front seat inner belt RH with a new or correctly functioning one (See REMOVAL).

5. CHECK PASSENGER SEAT BELT WARNING LIGHT

- a. Check the passenger seat belt warning light function (See OPERATION CHECK).

OK: Passenger seat belt warning light operates normally.

NG: REPLACE COMBINATION METER (See REMOVAL)

OK : END (FRONT SEAT INNER BELT RH IS DEFECTIVE)

6. CHECK HARNESS AND CONNECTOR (PASSENGER SEAT BELT WARNING LIGHT COMBINATION METER)

- a. Disconnect the F17 passenger seat belt warning light connector.
- b. Disconnect the F1 combination meter connector.
- c. Measure the resistance and voltage according to the value(s) in the table below.

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Condition	Specified Condition
F17-7 (PBEW) - F1-23 (PBLT)	Always	Below 1 ohms
F17-7(PBEW) or F1-23 (PBLT) - Body ground	Always	10 kohms or higher

Standard voltage

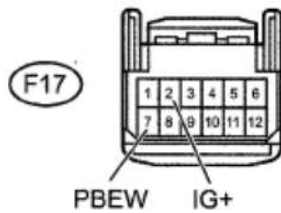
STANDARD VOLTAGE SPECIFICATIONS

Tester Connection	Switch Condition	Specified Condition
F17-2 (IG+) - Body ground	Ignition switch ON	11 to 14 V

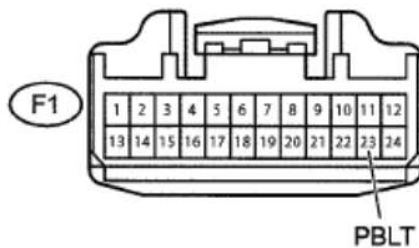
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Front view of wire harness connector:
(to Passenger Seat Belt Warning Light)



Front view of wire harness connector:
(to Combination Meter)



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Fig. 14: Identifying F1 Combination Meter And F17 Passenger Seat Belt Warning Light Connectors

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NG: REPAIR OR REPLACE HARNESS OR CONNECTOR

OK: Go to next step

7. INSPECT PASSENGER SEAT BELT WARNING LIGHT ASSEMBLY

- Remove the passenger seat belt warning light (See **REMOVAL**).
- Connect the positive (+) battery lead to terminal 2 (IG+), and the negative (-) battery lead to terminal 7 (PBEW).
- Check that the seat belt warning light (for passenger side) comes on.

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Component without harness connected:
(Passenger Seat Belt Warning Light)

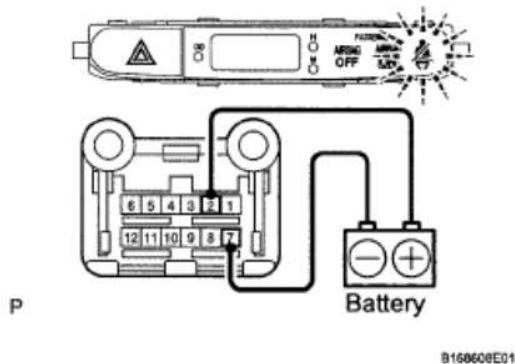


Fig. 15: Inspecting Passenger Seat Belt Warning Light Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Seat belt warning light (for passenger side) comes on.

NG: REPLACE PASSENGER SEAT BELT WARNING LIGHT ASSEMBLY (See **REMOVAL**)

OK : REPLACE COMBINATION METER (See **REMOVAL**)

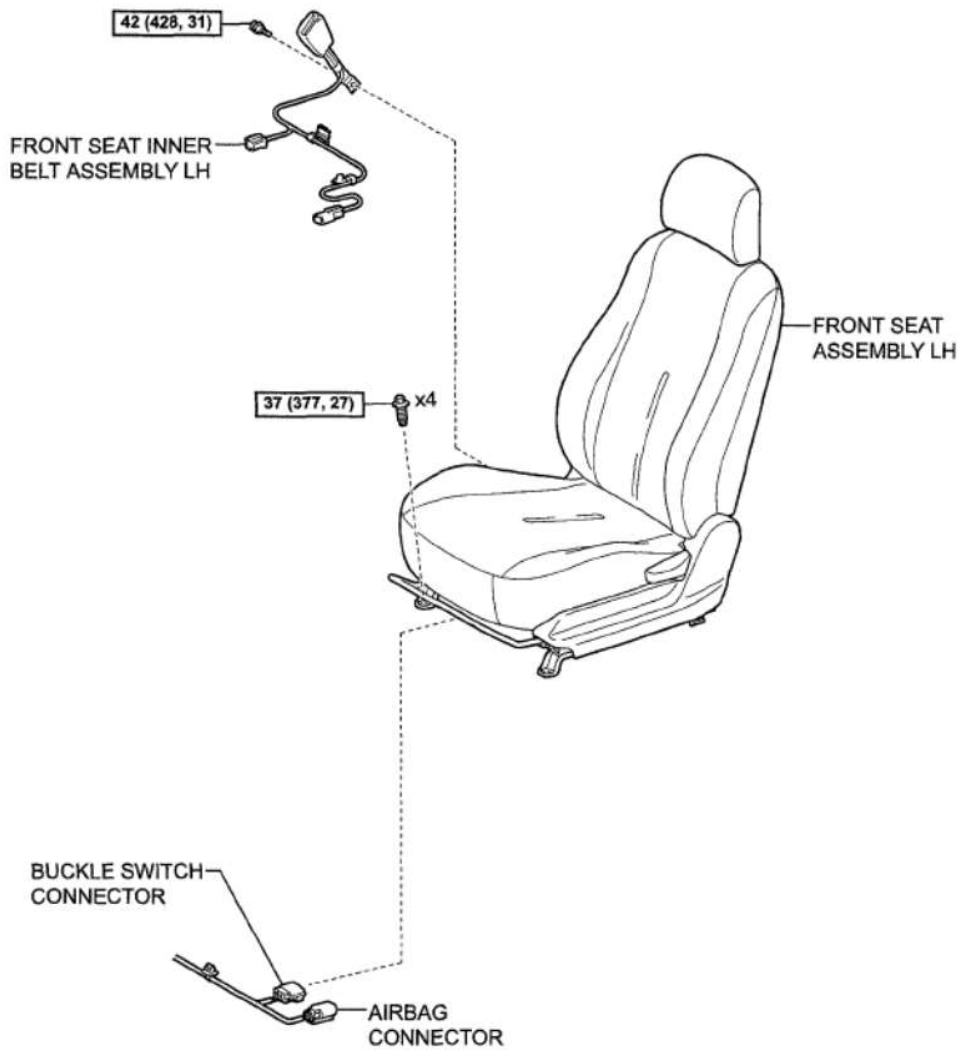
FRONT SEAT INNER BELT ASSEMBLY

COMPONENTS

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for Driver Side:



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

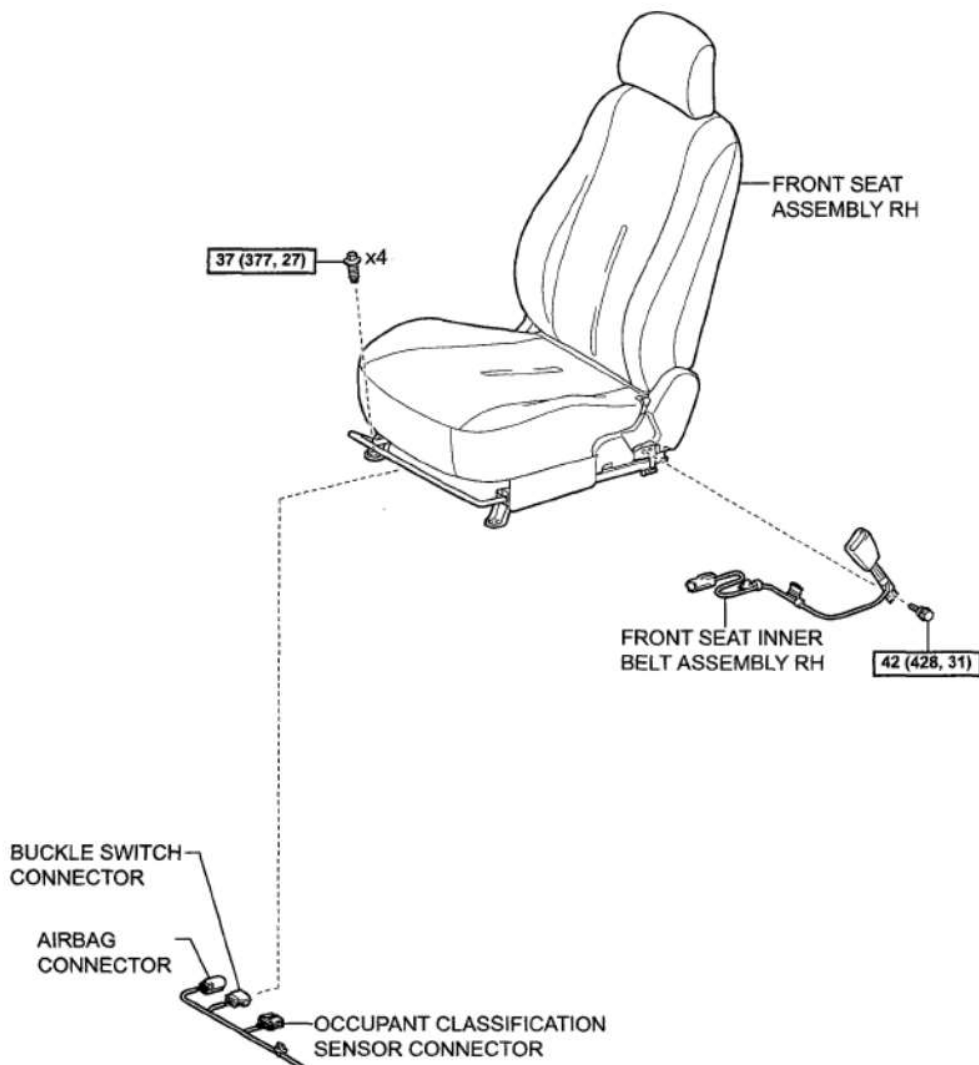
P 8175893E01

Fig. 16: Identifying Front Seat Inner Belt Assembly Components With Torque Specifications (Driver Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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for Front Passenger Side:



$\boxed{N \cdot m \text{ (kgf} \cdot \text{cm, ft} \cdot \text{lb)}} : \text{Specified torque}$

P

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Fig. 17: Identifying Front Seat Inner Belt Assembly Components With Torque Specifications (Passenger Side)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

CAUTION: Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing

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(See **PRECAUTION**).

NOTE: Always use "TORX" socket wrench E10 when removing the front seat.

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**
2. **REMOVE FRONT SEAT ASSEMBLY LH** (See **REMOVAL**)
3. **REMOVE FRONT SEAT ASSEMBLY RH** (See **DISASSEMBLY**)
4. **REMOVE FRONT SEAT INNER BELT ASSEMBLY LH**
 - a. Disconnect the seat position sensor connector.
 - b. Remove the buckle switch connector.
 - c. Remove the 2 wiring harness clamps.

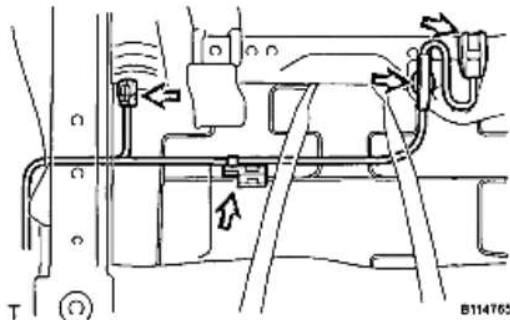


Fig. 18: Locating Wiring Harness Clamps

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Remove the wiring harness from the claw on the front seat cushion shield.

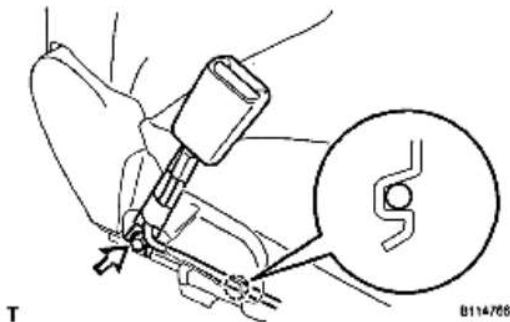


Fig. 19: Identifying Wiring Harness Claw On Front Seat Cushion Shield

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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- e. Remove the bolt and the front seat inner belt.

5. REMOVE FRONT SEAT INNER BELT ASSEMBLY RH

- a. Remove the buckle switch connector.
- b. Remove the 2 wiring harness clamps.

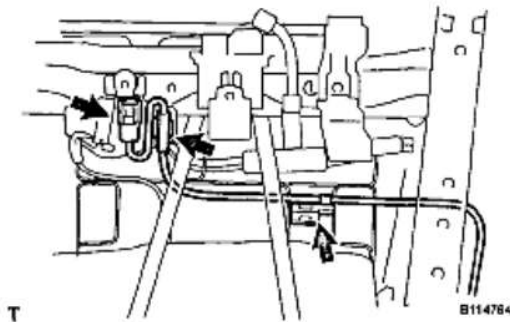


Fig. 20: Locating Buckle Switch Connector And Wiring Harness Clamps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the wiring harness from the claw on the front seat cushion shield.

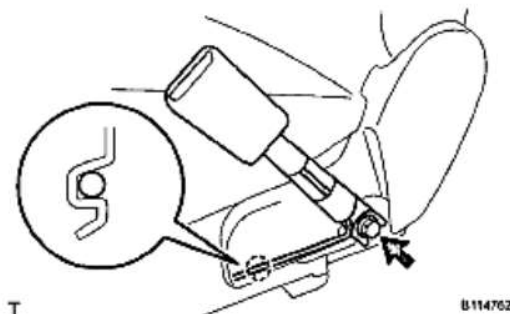


Fig. 21: Identifying Wiring Harness Claw On Front Seat Cushion Shield
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Remove the bolt and the front seat inner belt.

INSPECTION

1. INSPECT FRONT SEAT INNER BELT ASSEMBLY LH

- a. for Driver Side:
 - 1. Check the resistance.
 - 1. Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS

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Tester Connection	Condition	Specified Condition
3 - 4	Tongue plate fastened	10 kohms or higher
3 - 4	Tongue plate released	Below 1 ohms

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

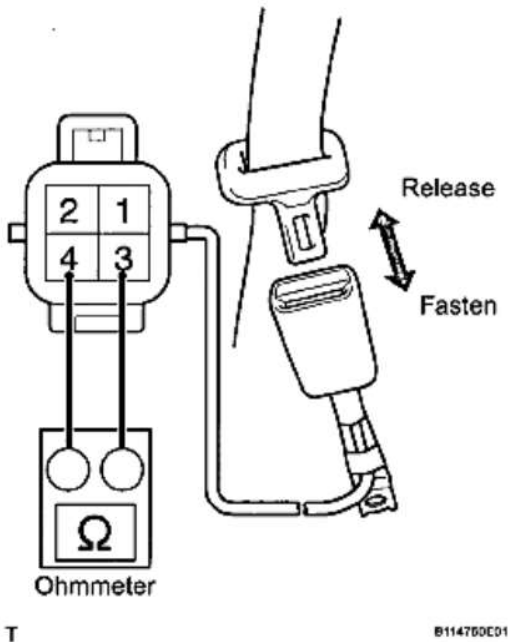


Fig. 22: Measuring Resistance Between Terminals (Driver Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. for Front Passenger Side:
 - 1. Check the resistance.
 - 1. Using an ohmmeter, measure the resistance between the terminals.

Standard resistance

STANDARD RESISTANCE SPECIFICATIONS

Tester Connection	Condition	Specified Condition
1 - 2	Tongue plate fastened	10 kohms or higher
1 - 2	Tongue plate released	Below 1 ohms

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

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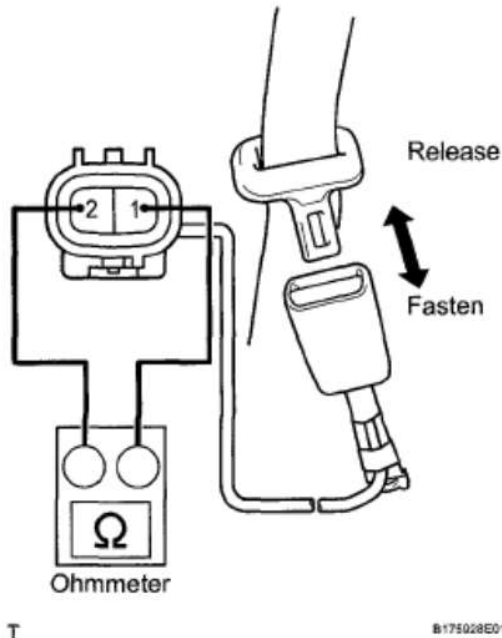


Fig. 23: Measuring Resistance Between Terminals (Passenger Side)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

CAUTION: Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See PRECAUTION).

NOTE: Always use "TORX" socket wrench E10 when installing the front seat.

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 LH

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

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

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

- b. Install the wiring harness into the claw on the front seat cushion shield.

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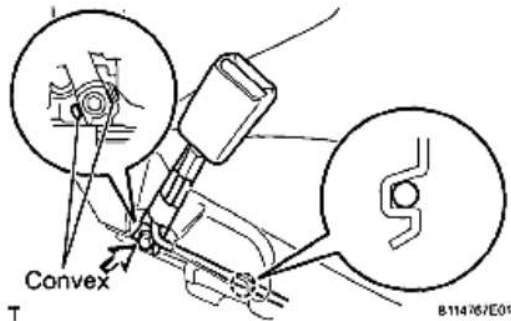


Fig. 24: Identifying Claw On Front Seat Cushion Shield
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Install the 2 wiring harness clamps.
- d. Install the buckle switch connector.

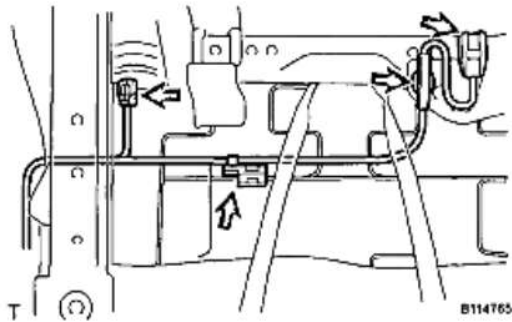


Fig. 25: Locating Wiring Harness Clamps And Buckle Switch Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Connect the seat position sensor connector.
2. **INSTALL FRONT SEAT INNER BELT ASSEMBLY RH**
 - a. Install the front seat inner belt with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

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

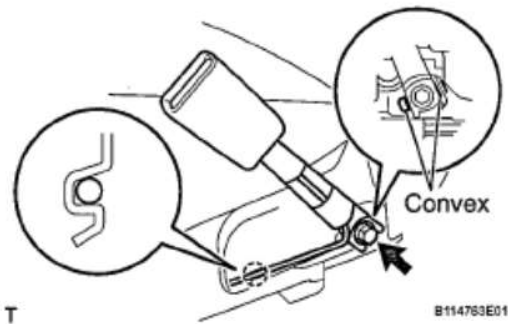
2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

Fig. 26: Locating Front Seat Inner Belt With Bolt
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the wiring harness into the claw on the front seat cushion shield.
- c. Install the 2 wiring harness clamps.

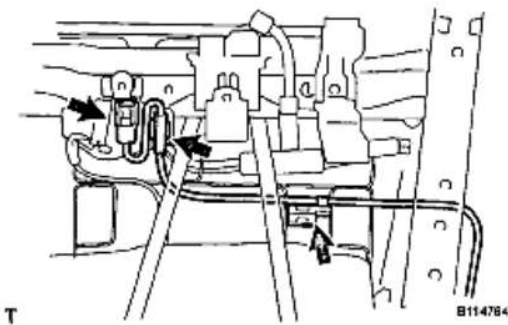


Fig. 27: Locating Buckle Switch Connector And Wiring Harness Clamps
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Install the buckle switch connector.
3. **INSTALL FRONT SEAT ASSEMBLY LH** (See **INSTALLATION**)
4. **INSTALL FRONT SEAT ASSEMBLY RH** (See **INSTALLATION**)
5. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

6. **INSPECT SRS WARNING LIGHT**

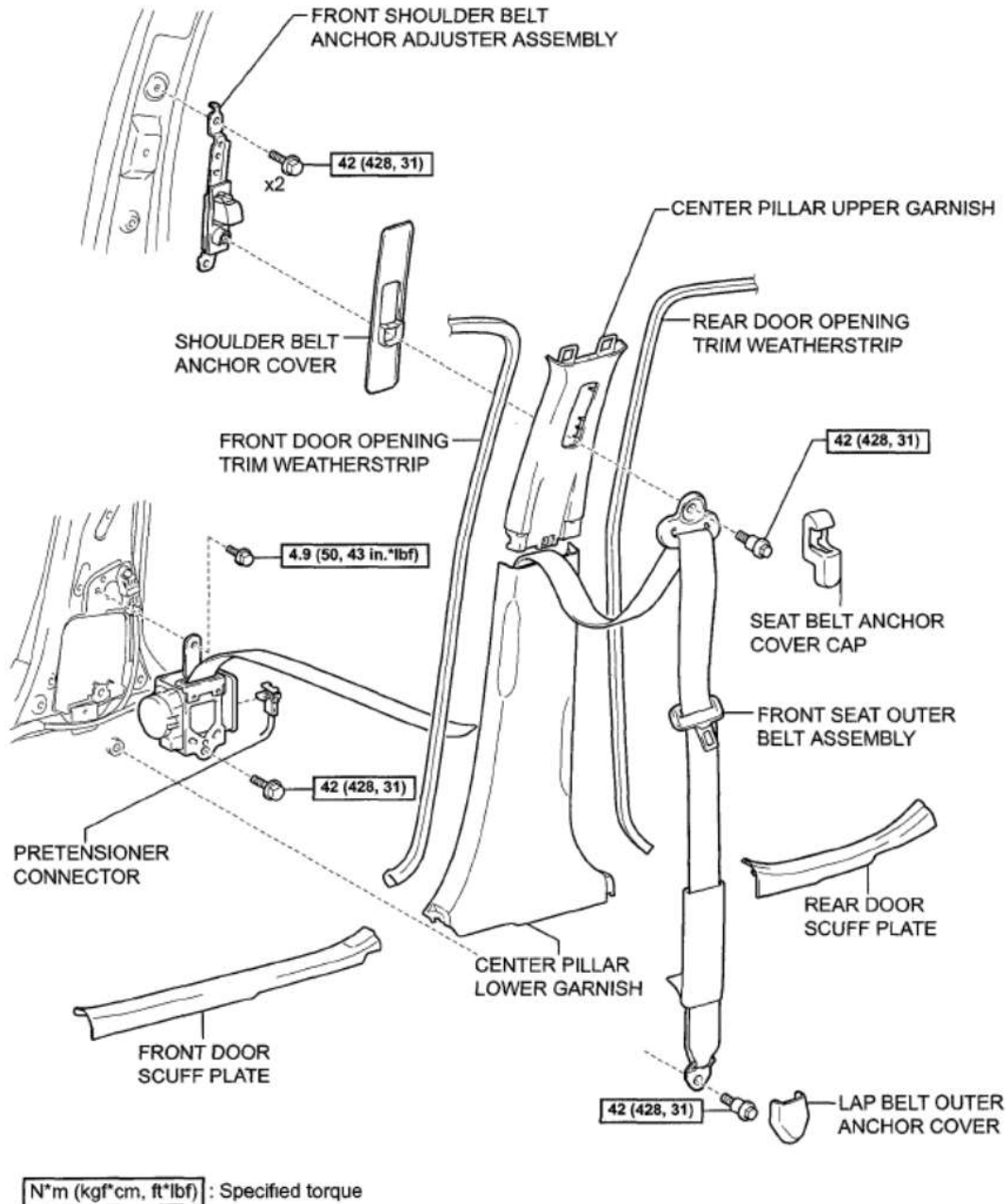
(See **DIAGNOSIS SYSTEM**)

FRONT SEAT OUTER BELT ASSEMBLY

COMPONENTS

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Fig. 28: Identifying Front Seat Outer Belt Assembly Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

CAUTION: Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See PRECAUTION).

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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 FRONT DOOR SCUFF PLATE (See REMOVAL)**3. REMOVE REAR DOOR SCUFF PLATE (See REMOVAL)****4. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP**

- a. Detach the front door opening trim weatherstrip sufficiently to remove the upper and lower center pillar garnishes.



Fig. 29: Identifying Front Door Opening Trim Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP

- a. Detach the rear door opening trim weatherstrip sufficiently to remove the upper and lower center pillar garnishes.

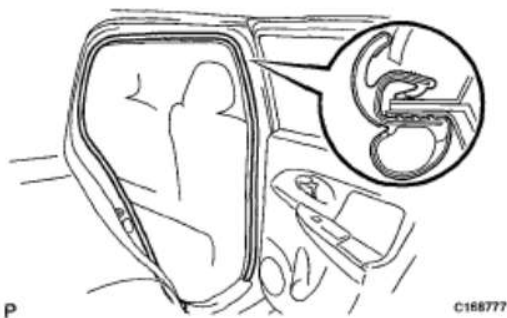


Fig. 30: Identifying Rear Door Opening Trim Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 RESTRAINTS Seat Belt - xD****6. REMOVE CENTER PILLAR LOWER GARNISH (See REMOVAL)****7. REMOVE SEAT BELT ANCHOR COVER CAP**

- a. Pull portion A, shown in the illustration, toward you, remove the 2 claws on the lower side followed by the claw on the upper side. Then remove the seat belt anchor cover cap.

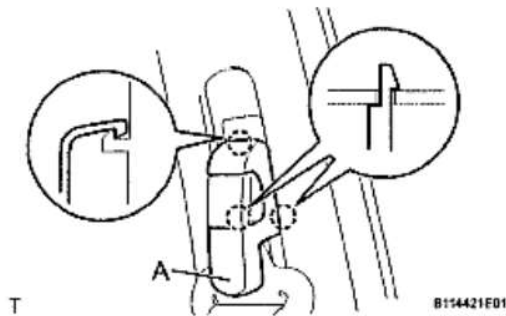


Fig. 31: Pulling Seat Belt Anchor Cover Cap

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. REMOVE LAP BELT OUTER ANCHOR COVER

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

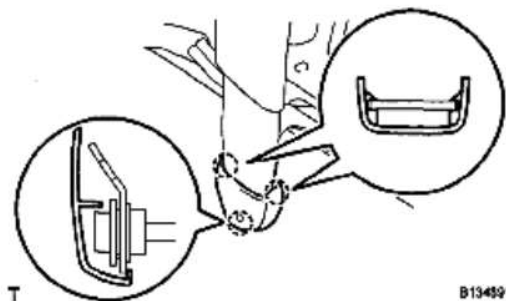


Fig. 32: Identifying Claws On Lap Belt Outer Anchor Cover

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. REMOVE FRONT SEAT OUTER BELT ASSEMBLY

- a. Remove the bolt and the anchor plate.

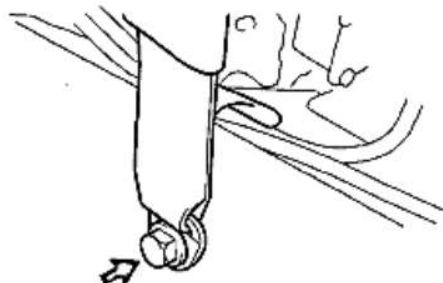
2008 Scion xD**2008 RESTRAINTS Seat Belt - xD**

Fig. 33: Identifying Floor Anchor With Bolt

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the bolt and the shoulder anchor.

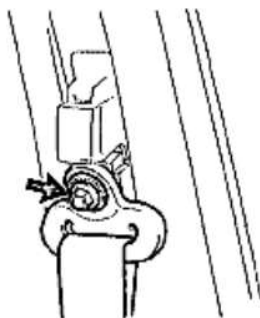


Fig. 34: Locating Bolt And Shoulder Anchor

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disconnect the pretensioner connector.
1. Using a screwdriver, release the locking button.
 2. Using a screwdriver, disconnect the pretensioner connector.

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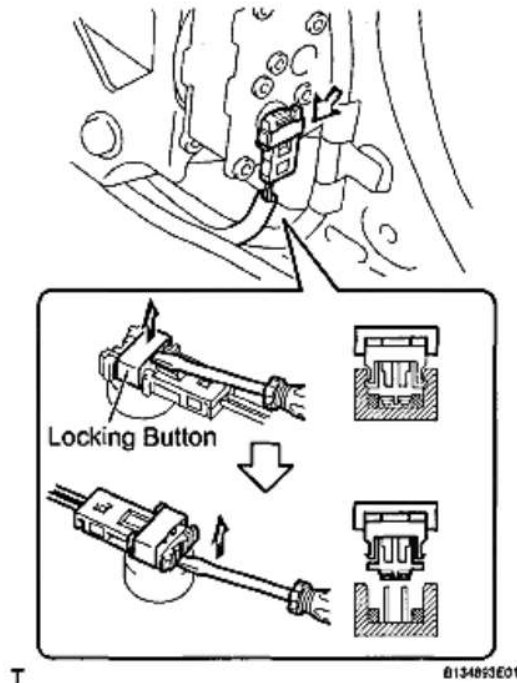


Fig. 35: Locating Pretensioner Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Remove the 2 bolts, the 2 hooks and the retractor.

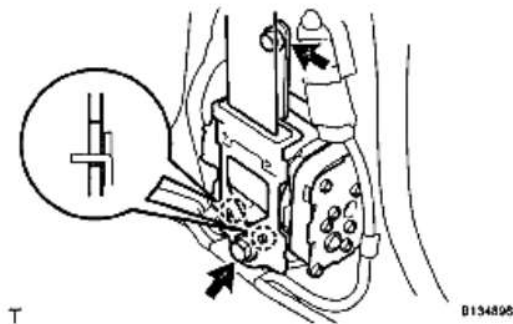


Fig. 36: Locating Hooks And Retractor With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. **REMOVE CENTER PILLAR UPPER GARNISH** (See **REMOVAL**)
11. **REMOVE SHOULDER BELT ANCHOR COVER**
 - a. Disengage the 2 claws and remove the shoulder belt anchorage plate cover.

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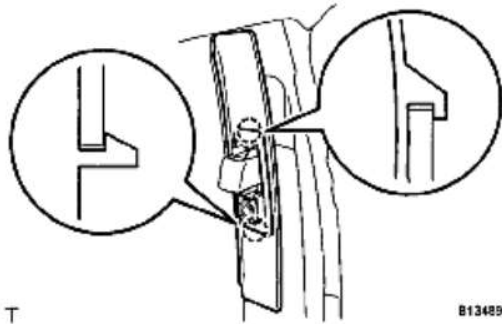


Fig. 37: Identifying Claws On Shoulder Belt Anchorage Plate Cover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. REMOVE FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

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

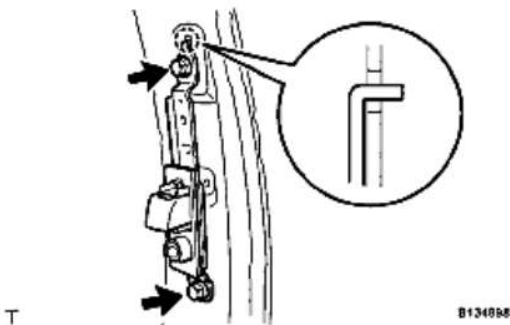


Fig. 38: Locating Bolts And Hook
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

CAUTION: Some of these service operations affect the SRS airbag system. Read the precautionary notices concerning the SRS airbag system before servicing (See PRECAUTION).

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 install the shoulder belt anchor adjuster with the 2 bolts.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

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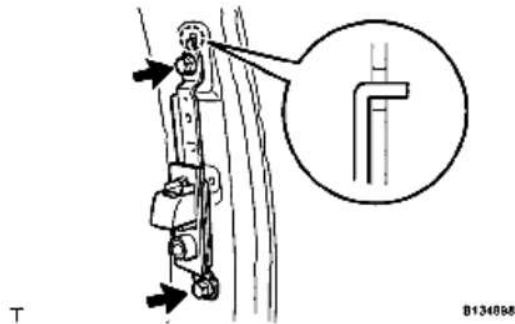


Fig. 39: Locating Bolts And Hook

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL SHOULDER BELT ANCHOR COVER

- a. Engage the 2 claws and install the shoulder belt anchorage plate cover.

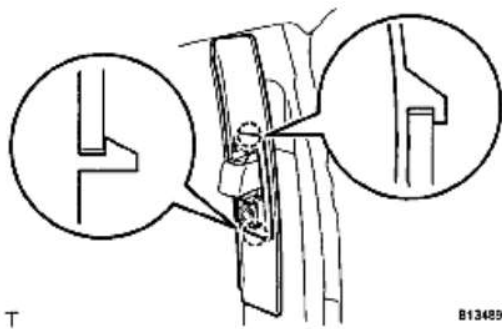


Fig. 40: Identifying Claws On Shoulder Belt Anchorage Plate Cover

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. INSTALL CENTER PILLAR UPPER GARNISH (See INSTALLATION)

4. 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.

NOTE: Do not disassemble the retractor. If the operation is not as specified, replace the front seat outer belt.

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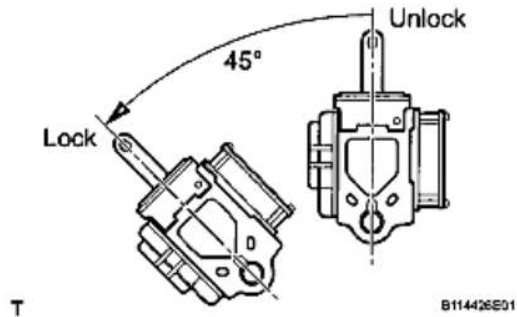


Fig. 41: Identifying Front Seat Outer Belt Lock And Unlock Positions
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

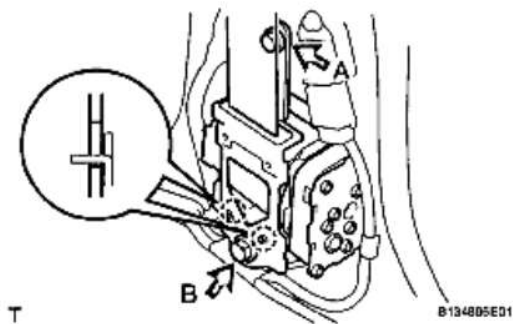


Fig. 42: Locating Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Tighten bolt A and then bolt B.

Torque: 4.9 N*m (50 kgf*cm, 43 in.*lbf) for bolt A

42 N*m (428 kgf*cm, 31 ft.*lbf) for bolt B

- d. Connect the pretensioner connector.
1. Connect the pretensioner connector.

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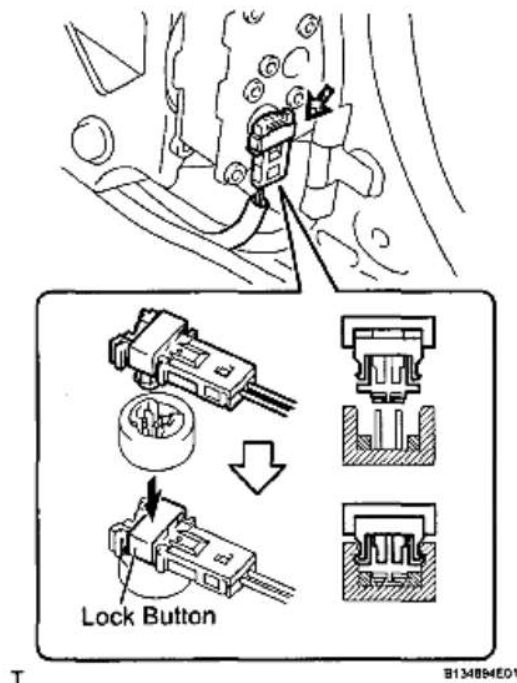


Fig. 43: Connecting Pretensioner Connector

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Lock the locking button.

NOTE: Securely lock the locking button.

- e. Install the shoulder anchor with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

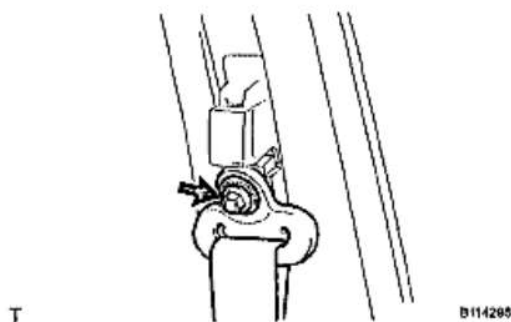


Fig. 44: Identifying Shoulder Anchor With Bolt

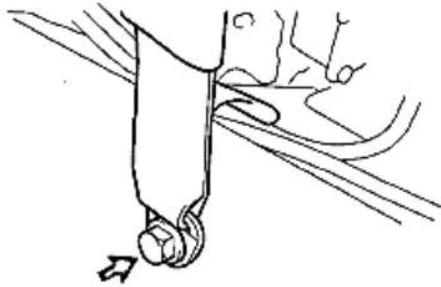
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- f. Install the floor anchor with the bolt.

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Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)



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Fig. 45: Identifying Floor Anchor With Bolt

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- g. Check that the ELR locks.

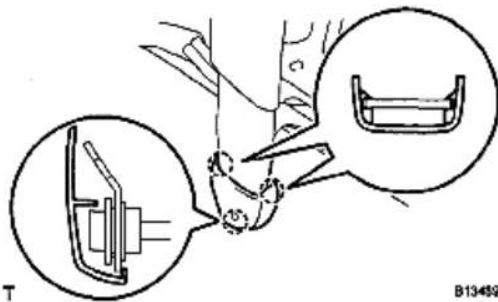
NOTE:

- The check should be performed with the front seat outer belt installed.
- Do not allow the anchor part of the front seat outer belt and the protruding parts of the floor panel to overlap.

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.

5. INSTALL LAP BELT OUTER ANCHOR COVER

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



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Fig. 46: Identifying Claws On Lap Belt Outer Anchor Cover

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. INSTALL SEAT BELT ANCHOR COVER CAP

- a. Engage the 3 claws and install the seat belt anchor cover cap.

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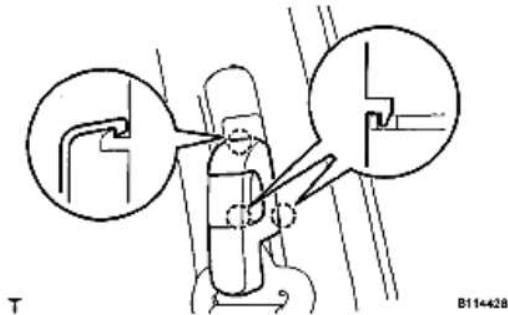


Fig. 47: Identifying Claws On Seat Belt Anchor Cover Cap
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **INSTALL CENTER PILLAR LOWER GARNISH** (See INSTALLATION)
8. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP**
 - a. Install the rear door opening trim weatherstrip.

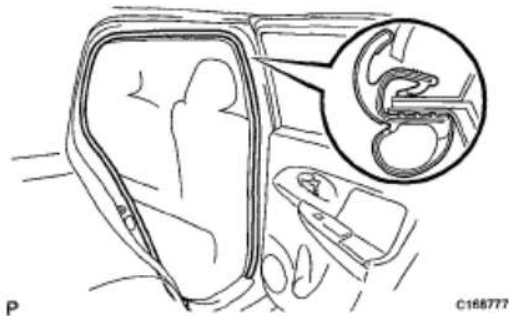


Fig. 48: Identifying Rear Door Opening Trim Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP**
 - a. Install the front door opening trim weatherstrip.



Fig. 49: Identifying Front Door Opening Trim Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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2008 RESTRAINTS Seat Belt - xD

10. **INSTALL REAR DOOR SCUFF PLATE** (See INSTALLATION)
11. **INSTALL FRONT DOOR SCUFF PLATE** (See INSTALLATION)
12. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

13. **INSPECT SRS WARNING LIGHT**

(See DIAGNOSIS SYSTEM)

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 outside and where it will not be a nuisance to persons nearby.
- When activating a front seat outer belt (with seat belt pretensioner), stand at least 10 m (33 ft) away from the front seat outer belt.
- Use gloves and safety glasses when handling a front seat outer belt with an activated pretensioner.
- Always wash your hands with water after completing the activation.
- Do not apply water to a front seat outer belt that has an activated pretensioner.
- When activating the seat belt pretensioner, always use the specified SST (SRS airbag deployment tool).
- 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

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

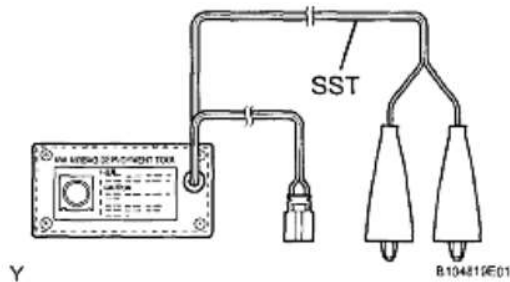


Fig. 50: Checking Whether SST Functioning
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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.

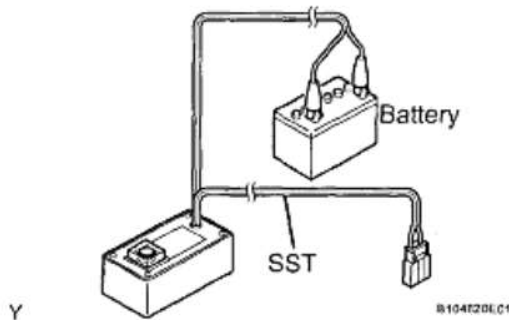


Fig. 51: Connecting SST Red Clip To Positive Battery Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Press the SST activation switch and check that the LED of the SST activation switch turns on.

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

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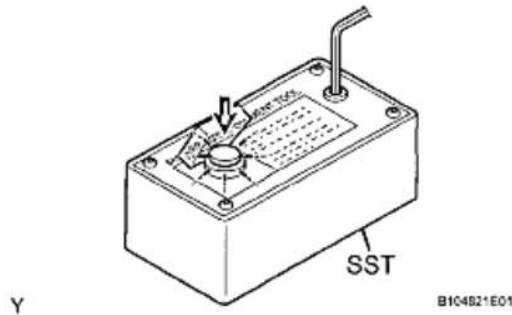


Fig. 52: Pressing SST Activation Switch

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disconnect SST from the battery.
- c. Disconnect the pretensioner connector.
 1. Disconnect the cable from the negative battery terminal.
 2. Remove the front door scuff plate (See **REMOVAL**).
 3. Remove the rear door scuff plate (See **REMOVAL**).
 4. Remove the front door opening trim weatherstrip.
 1. Detach the front door opening trim weatherstrip sufficiently to remove the center pillar lower garnish.



Fig. 53: Identifying Front Door Opening Trim Weatherstrip

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. Remove the rear door opening trim weatherstrip.
 1. Detach the rear door opening trim weatherstrip sufficiently to remove the center pillar lower garnish.

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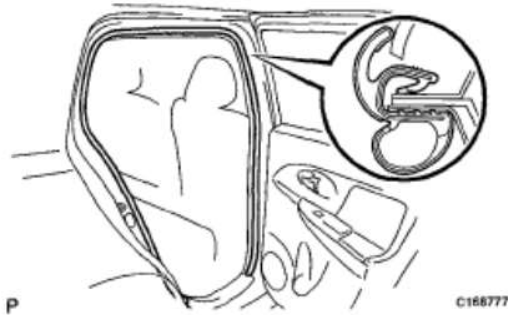


Fig. 54: Identifying Rear Door Opening Trim Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. Remove the center pillar lower garnish (See **REMOVAL**).
7. Disconnect the pretensioner connector.
 1. Using a screwdriver, release the locking button.
 2. Using a screwdriver, disconnect the pretensioner connector.

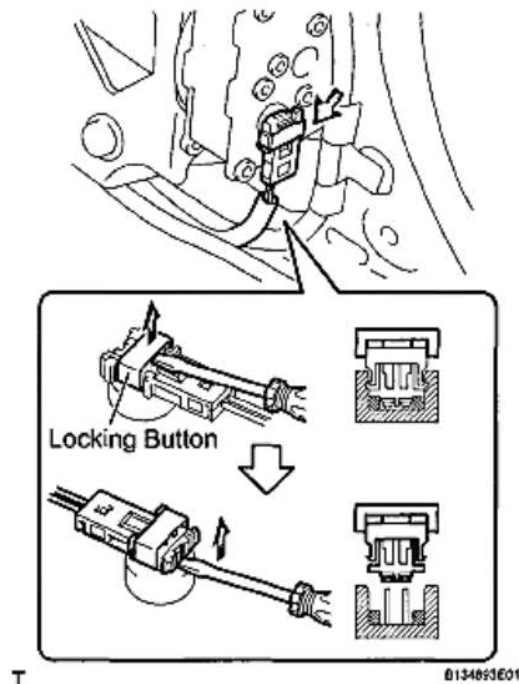


Fig. 55: Locating Pretensioner Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Connect SST.
 1. Connect SST, then the yellow connector to the seat belt pretensioner.

SST 09082-00770

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

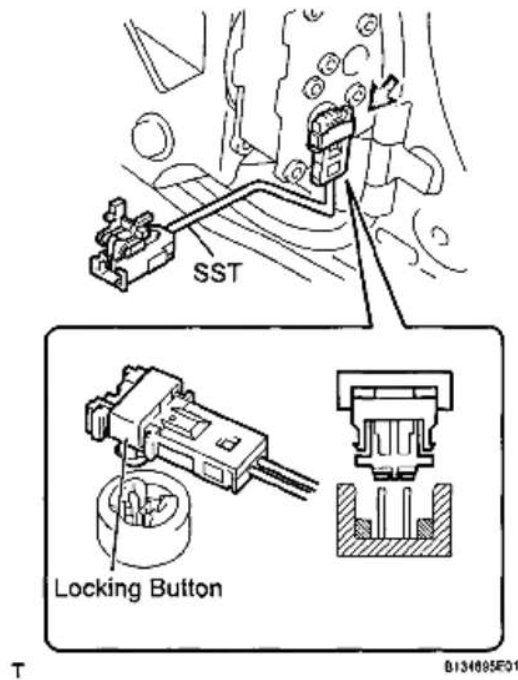


Fig. 56: Connecting SST To Seat Belt Pretensioner
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Move SST at least 10 m (33 ft) away from the front of the vehicle.

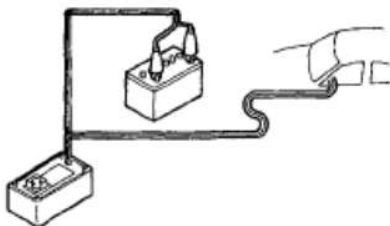
SST 09082-00700

3. Close the doors and windows of the vehicle.

NOTE: Take care not to damage the SST wire harness.

HINT:

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



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Fig. 57: Identifying SST At Least 10 M (33 Ft) Away From Front Of Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. 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.
- g. Dispose of the front seat outer belt (with the seat belt 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.

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.

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

HINT:

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

NOTE:

- When only disposing of the front seat outer belt (with the seat belt pretensioner), never use the customer's vehicle to activate the seat belt pretensioner.
- Be sure to follow the procedures described below when activating the seat belt pretensioner.

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- Remove the front seat outer belt (See **REMOVAL**).
- Wind the seat belt with the retractor.
- 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.

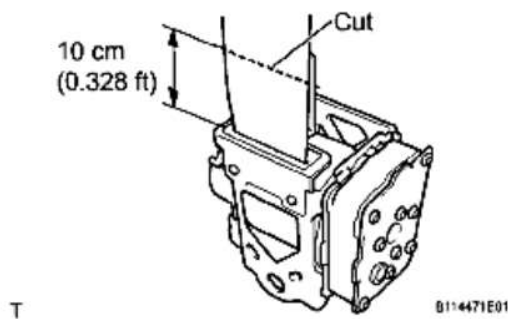


Fig. 58: Identifying Seat Belt Height

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Check whether SST is functioning.

SST 09082-00700

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

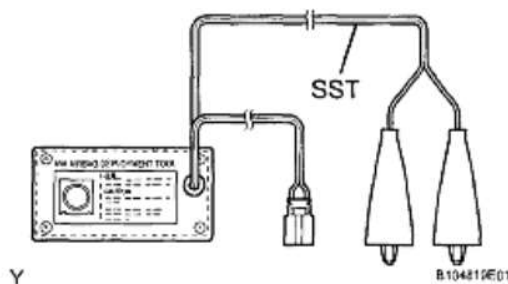


Fig. 59: Checking Whether SST Functioning

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

HINT:

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

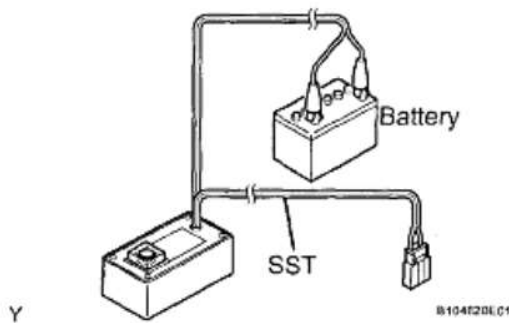


Fig. 60: Connecting SST Red Clip To Positive Battery Terminal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Press the SST activation switch and check that the LED of the SST activation switch turns on.

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

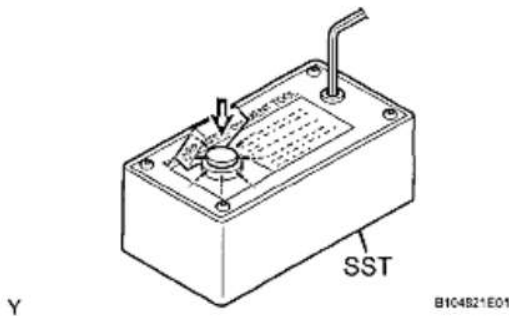


Fig. 61: Pressing SST Activation Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Connect SST.
 1. Connect SST, then the yellow connector to the seat belt pretensioner.

SST 09082-00770

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

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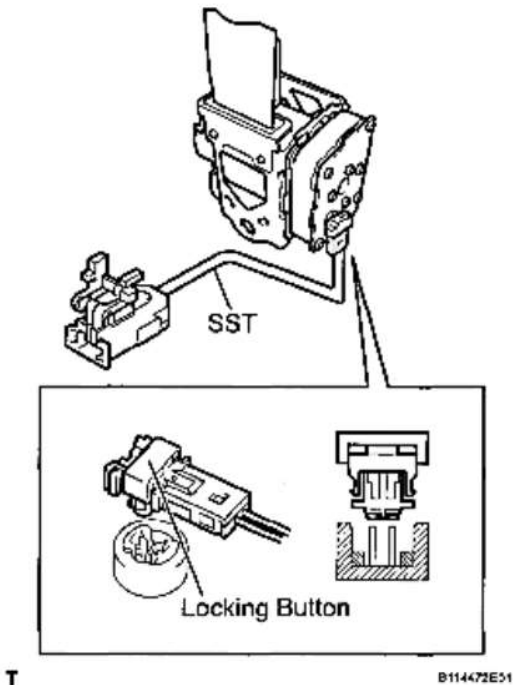


Fig. 62: Connecting SST
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

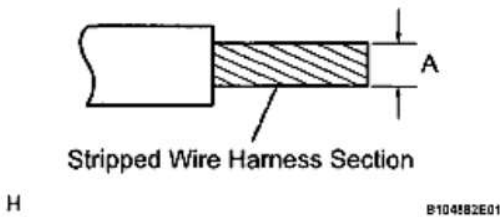


Fig. 63: Identifying Stripped Wire Harness Section
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Stripped wire harness section

STRIPPED WIRE HARNESS SECTION

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

- 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

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pretensioner is deployed.

- Always use a wire harness for vehicle use, with a cross section of at least 1.25 mm^2 (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

NOTE:

- 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.

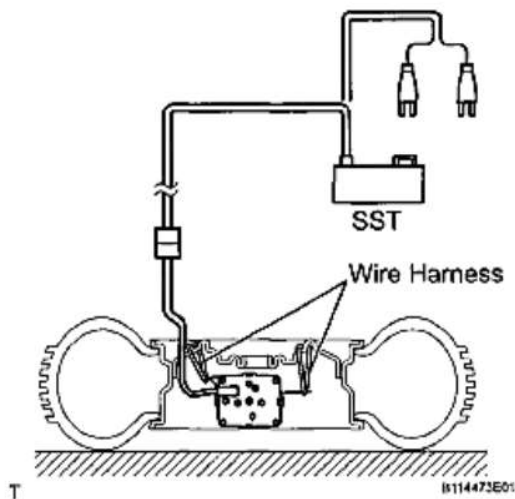


Fig. 64: Connecting SST To And Wire Harness
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

NOTE:

Take care not to damage the SST wire harness.

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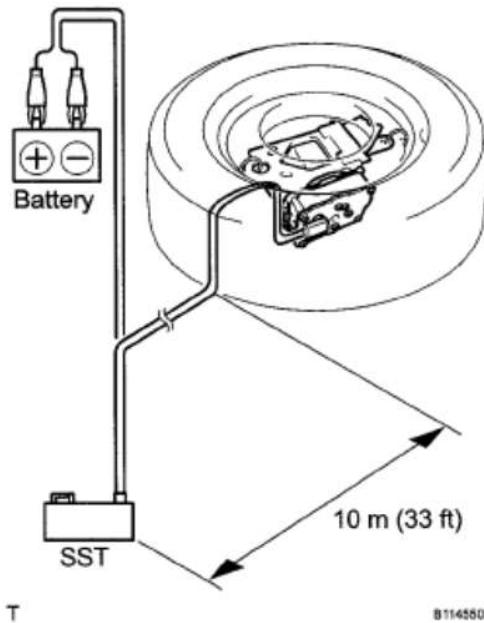


Fig. 65: Identifying SST At Least 10 M (33 Ft) Away From Wheel
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- 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 (33 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.
- 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.

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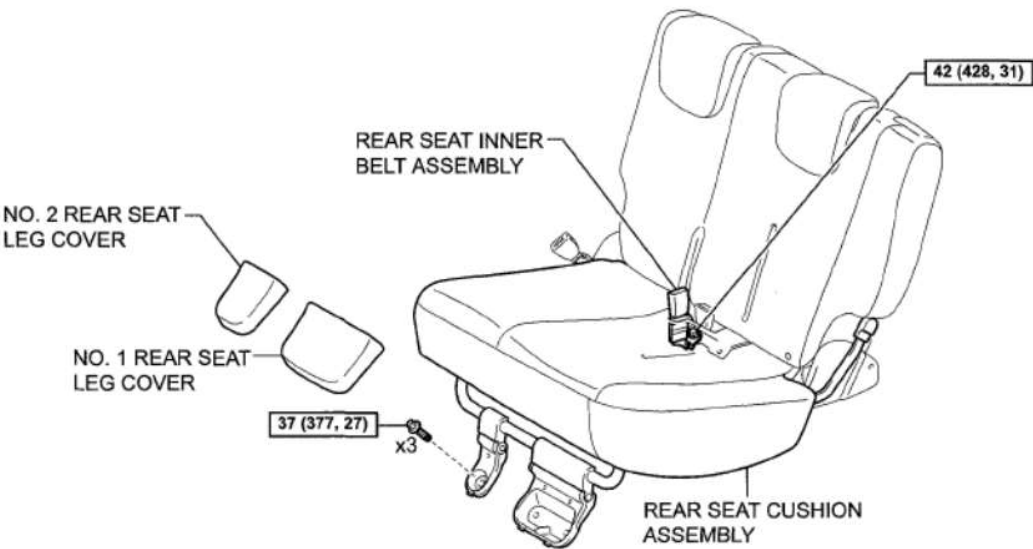


Fig. 66: Identifying Plastic Bag
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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.

REAR SEAT INNER BELT ASSEMBLY (FOR LH SIDE)

COMPONENTS



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

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Fig. 67: Identifying Rear Seat Inner Belt Assembly (LH Side) Components With Torque Specifications
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

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NOTE: Always use "TORX" socket wrench E10 when removing the rear seat.

1. REMOVE NO. 1 REAR SEAT LEG COVER (See REMOVAL)
2. REMOVE NO. 2 REAR SEAT LEG COVER (See REMOVAL)
3. REMOVE REAR SEAT INNER BELT ASSEMBLY
 - a. Using "TORX" socket wrench E10, remove the 3 bolts and pull up the rear seat cushion.

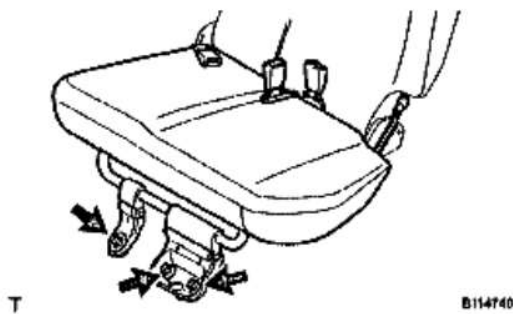


Fig. 68: Identifying Rear Seat Inner Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the belt from the band.
- c. Remove the bolt and the rear seat inner belt.

INSTALLATION

NOTE: Always use "TORX" socket wrench E10 when installing the rear seat.

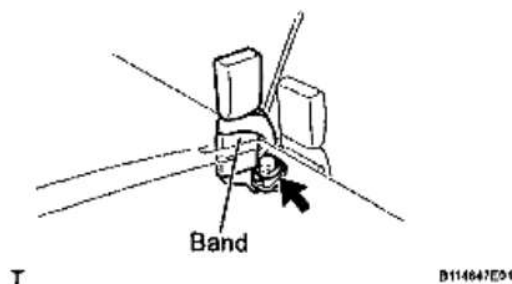


Fig. 69: Locating Bolt And Rear Seat Inner Belt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. INSTALL REAR SEAT INNER BELT ASSEMBLY
 - a. Install the rear seat inner belt with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

NOTE: Do not place the anchor plate over the convex area of the rear seat

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2008 RESTRAINTS Seat Belt - xD

back frame.

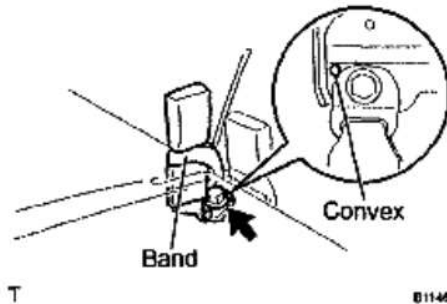


Fig. 70: Locating Rear Seat Inner Belt With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Install the belt into the band.
- Install the rear seat cushion.
- Using "TORX" socket wrench E10, tighten the 3 bolts in the sequence shown in the illustration.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

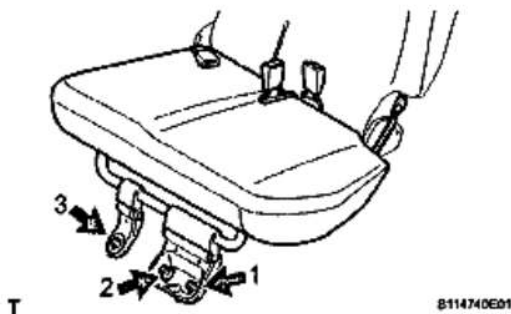


Fig. 71: Locating Rear Seat Cushion Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

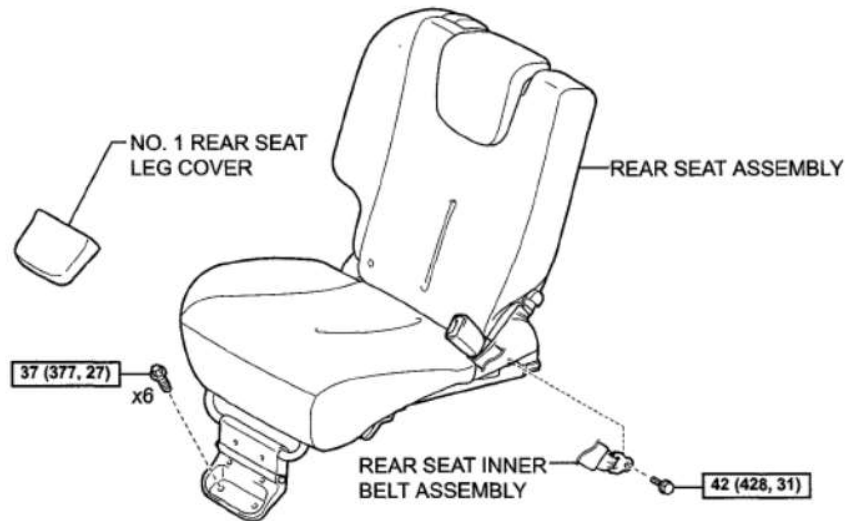
- INSTALL NO. 2 REAR SEAT LEG COVER (See INSTALLATION)
- INSTALL NO. 1 REAR SEAT LEG COVER (See INSTALLATION)

REAR SEAT INNER BELT ASSEMBLY (FOR RH SIDE)

COMPONENTS

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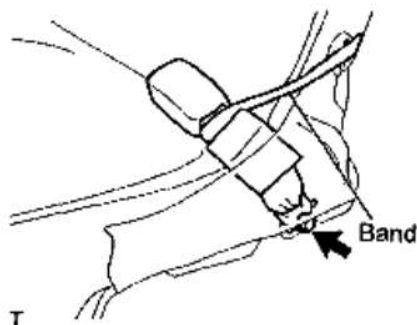
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Fig. 72: Identifying Rear Seat Inner Belt Assembly (RH Side) Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE: Always use "TORX" socket wrench E10 when removing the rear seat.

1. REMOVE NO. 1 REAR SEAT LEG COVER (See REMOVAL)
2. REMOVE REAR SEAT ASSEMBLY (See REMOVAL)
3. REMOVE REAR SEAT INNER BELT ASSEMBLY
 - a. Remove the belt from the band.
 - b. Remove the bolt and the rear seat inner belt.



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Fig. 73: Locating Bolt And Rear Seat Inner Belt

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

NOTE: Always use "TORX" socket wrench E10 when installing the rear seat.

1. INSTALL REAR SEAT INNER BELT ASSEMBLY

- a. Install the rear seat inner belt with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

NOTE: Do not place the anchor plate over the convex areas of the rear seat back frame.

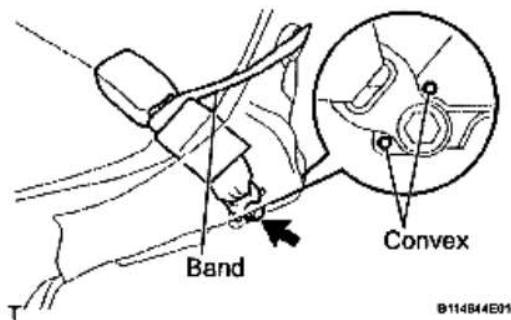


Fig. 74: Identifying Rear Seat Inner Belt With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

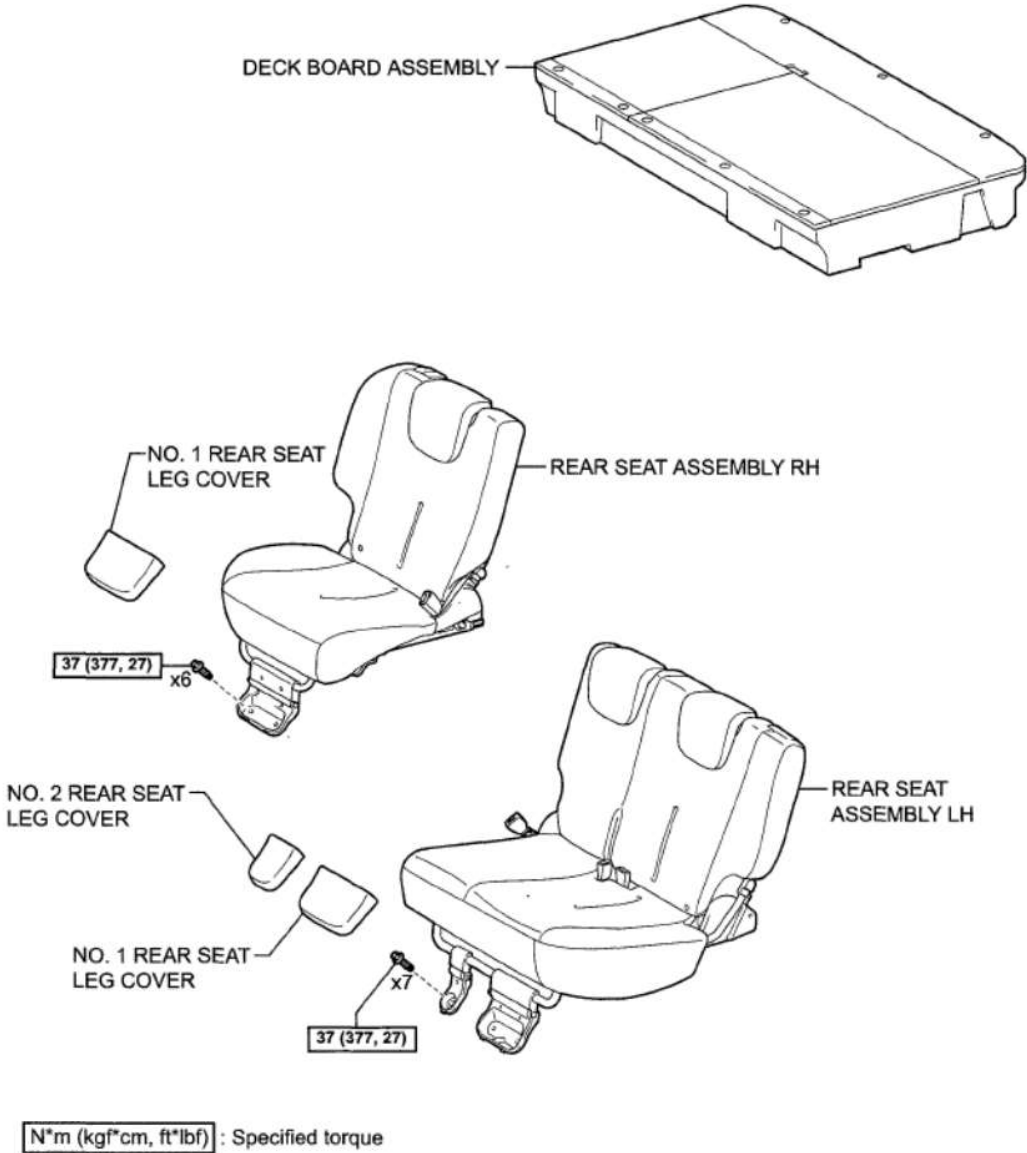
- b. Install the belt into the band.

2. **INSTALL REAR SEAT ASSEMBLY** (See INSTALLATION)
3. **INSTALL NO. 1 REAR SEAT LEG COVER** (See INSTALLATION)

REAR SEAT OUTER BELT ASSEMBLY**COMPONENTS**

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Fig. 75: Identifying Rear Seat Outer Belt Assembly Components With Torque Specifications (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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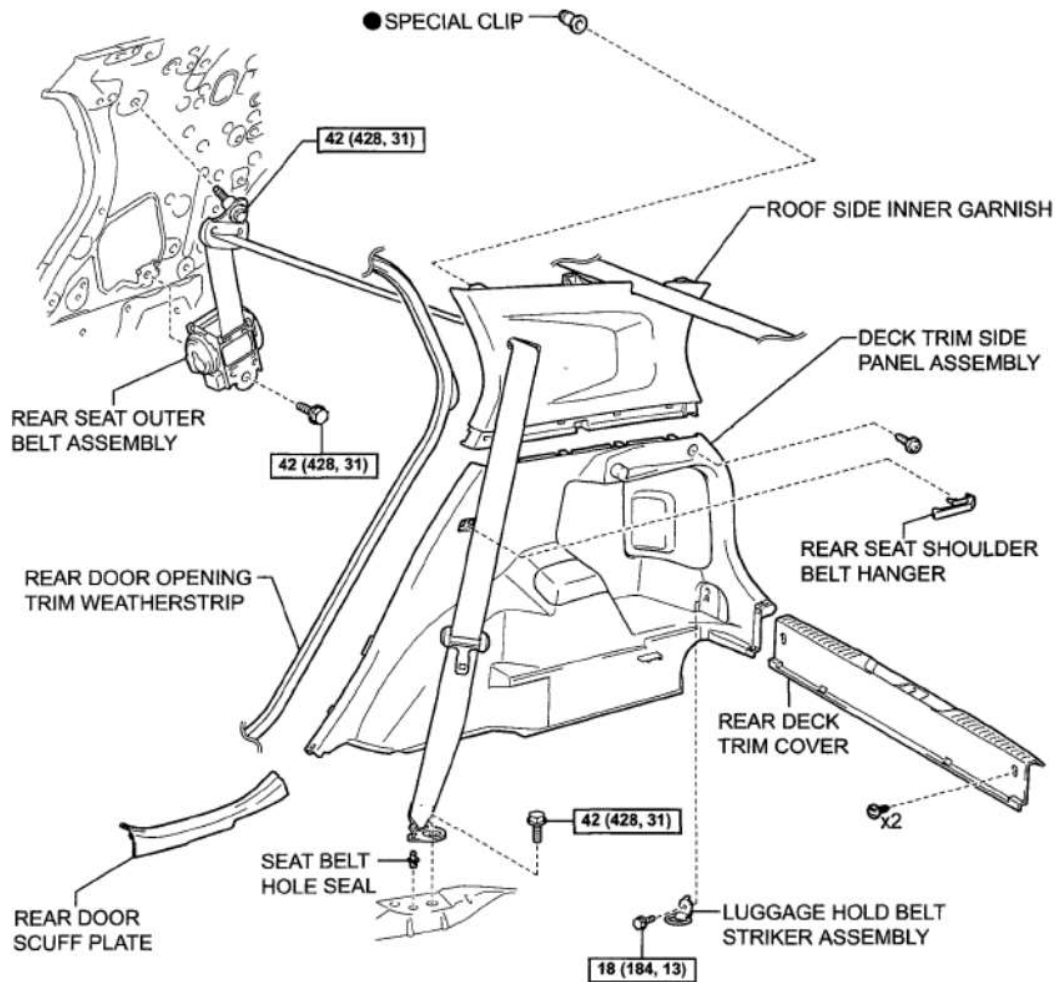


Fig. 76: Identifying Rear Seat Outer Belt Assembly Components With Torque Specifications (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

CAUTION: Always use "TORX" socket wrench E10 when removing the rear seat.

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 DECK BOARD ASSEMBLY (See REMOVAL)

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2. **REMOVE NO. 1 REAR SEAT LEG COVER (for RH Side)** (See REMOVAL)
3. **REMOVE NO. 1 REAR SEAT LEG COVER (for LH Side)** (See REMOVAL)
4. **REMOVE NO. 2 REAR SEAT LEG COVER (for LH Side)** (See REMOVAL)
5. **REMOVE REAR SEAT ASSEMBLY RH** (See REMOVAL)
6. **REMOVE REAR SEAT ASSEMBLY LH** (See REMOVAL)
7. **REMOVE REAR DOOR SCUFF PLATE** (See REMOVAL)
8. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP**
 - a. Remove the rear door opening trim weatherstrip to the extent that the deck trim side panel and roof side inner garnish can be removed.

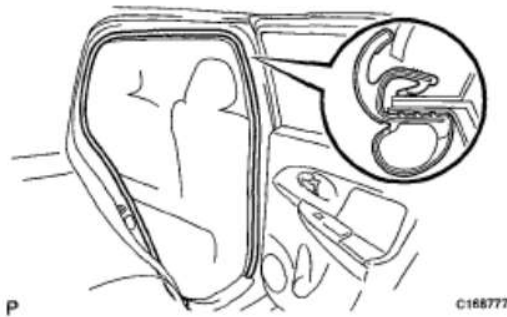


Fig. 77: Identifying Rear Door Opening Trim Weatherstrip
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **REMOVE REAR DECK TRIM COVER** (See REMOVAL)
10. **REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY** (See REMOVAL)
11. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY**
 - a. Remove the belt of the rear seat outer belt from the rear seat shoulder belt hanger.

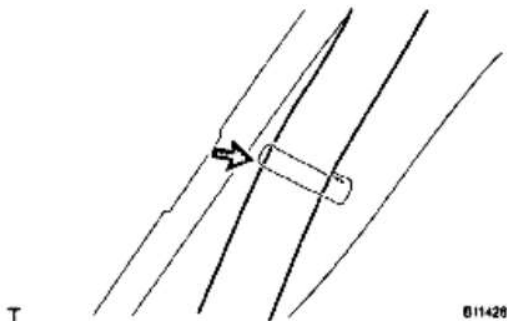
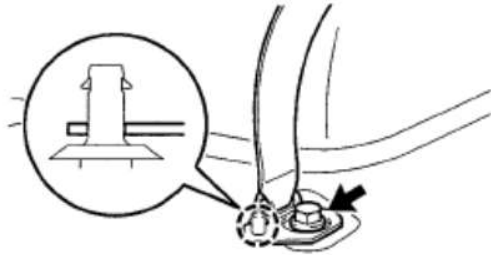


Fig. 78: Locating Rear Seat Shoulder Belt Hanger
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the bolt.
- c. Disengage the clip and remove the rear seat outer belt anchor plate.

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Fig. 79: Locating Rear Seat Outer Belt Anchor Plate
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Remove the screw.
- e. Disengage the 3 clips and the 7 claws and remove the deck trim side panel.

HINT:

When removing the deck trim side panel assembly LH, disconnect the room light connector and remove the deck trim side panel.

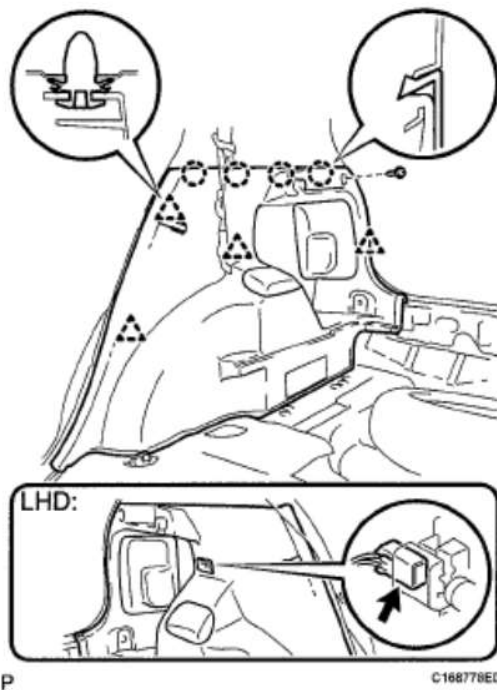


Fig. 80: Locating Clips And Claws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. REMOVE REAR SEAT SHOULDER BELT HANGER

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the

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rear seat shoulder belt hanger.

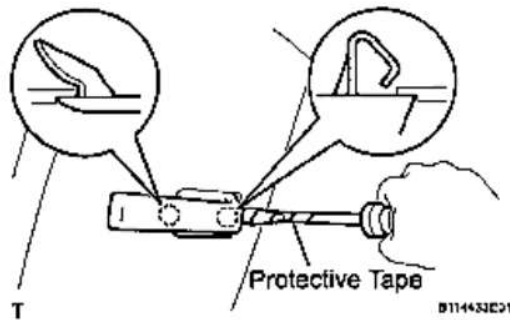


Fig. 81: Removing Rear Seat Shoulder Belt Hanger
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. **REMOVE ROOF SIDE INNER GARNISH** (See **REMOVAL**)
14. **REMOVE REAR SEAT OUTER BELT ASSEMBLY**
 - a. Remove the bolt and the through anchor.

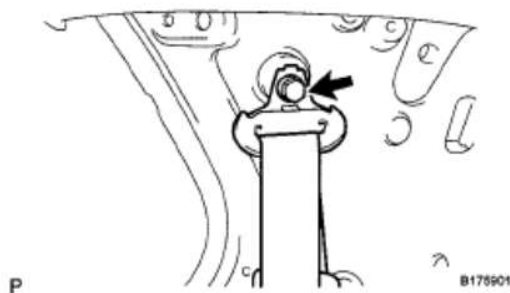


Fig. 82: Locating Anchor Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the bolt, the 2 hooks and the retractor.

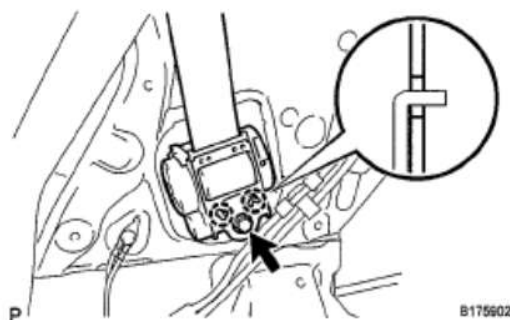
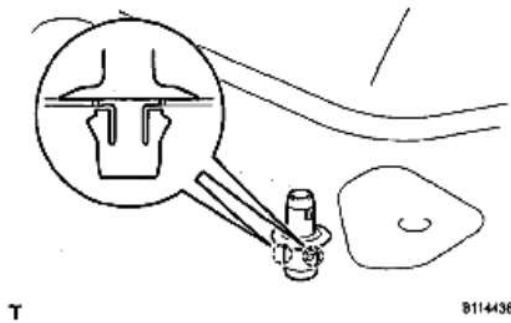


Fig. 83: Locating Hooks And Retractor With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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15. REMOVE SEAT BELT HOLE SEAL

- a. Disengage the 2 claws and remove the seat belt hole seal.

**Fig. 84: Identifying Seat Belt Hole Seal**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

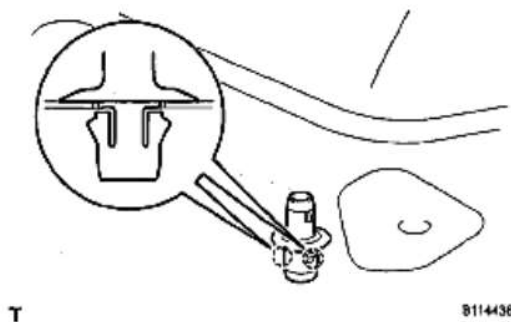
CAUTION: Always use "TORX" socket wrench E10 when installing the rear seat.

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 SEAT BELT HOLE SEAL

- a. Engage the 2 claws and install the seat belt hole seal.

**Fig. 85: Identifying Seat Belt Hole Seal**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. 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

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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.

NOTE: Do not disassemble the retractor. If the operation is not as specified, replace the rear seat outer belt.

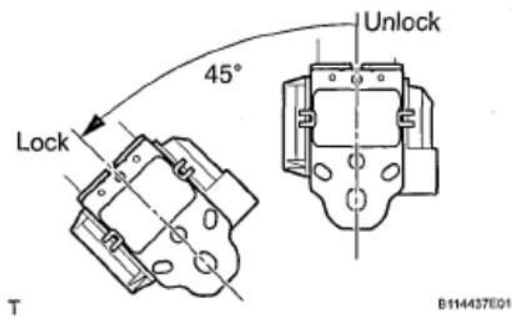


Fig. 86: Identifying Rear Seat Outer Belt Lock And Unlock Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Hook the lower stay of the retractor onto the 2 body hooks and install the retractor with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

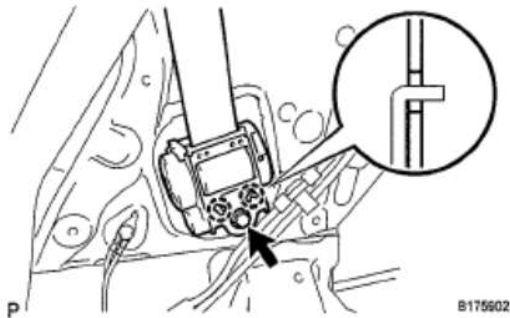


Fig. 87: Locating Hooks And Retractor With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Install the through anchor with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

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Fig. 88: Locating Anchor Bolt

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Check that the ELR locks.

NOTE: Perform the check with the rear 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.

3. INSTALL ROOF SIDE INNER GARNISH (See INSTALLATION)

4. INSTALL REAR SEAT SHOULDER BELT HANGER

- a. Engage the 2 claws and install the rear seat shoulder belt hanger.

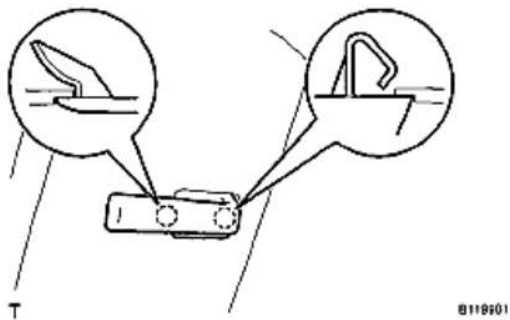


Fig. 89: Identifying Rear Seat Shoulder Belt Hanger Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. INSTALL DECK TRIM SIDE PANEL ASSEMBLY

- a. Engage the 3 clips and the 7 claws and install the deck trim side panel.

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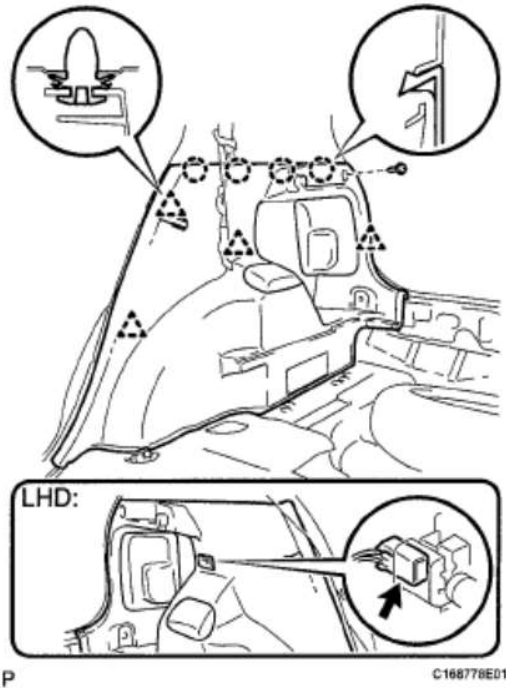


Fig. 90: Locating Clips And Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Tighten the screw.
- c. Engage the clip and install the rear seat outer belt anchor plate.

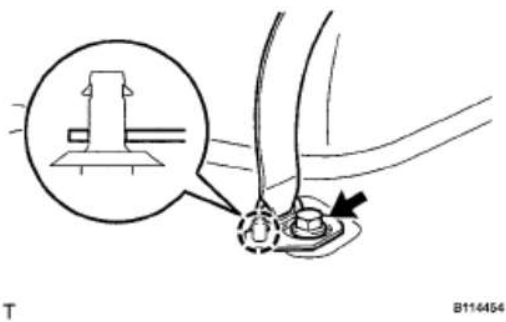


Fig. 91: Locating Rear Seat Outer Belt Anchor Plate

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Tighten the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

- e. Install the belt of the rear seat outer belt into the rear seat shoulder belt hanger.

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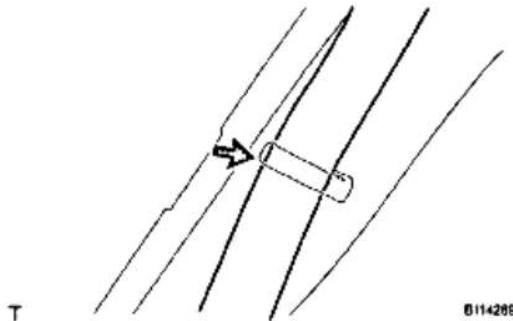


Fig. 92: Locating Rear Seat Shoulder Belt Hanger
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY** (See REMOVAL)
7. **INSTALL REAR DECK TRIM COVER** (See INSTALLATION)
8. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP**
 - a. Install the rear door opening trim weatherstrip.

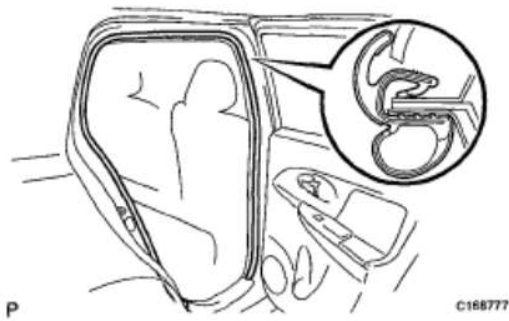
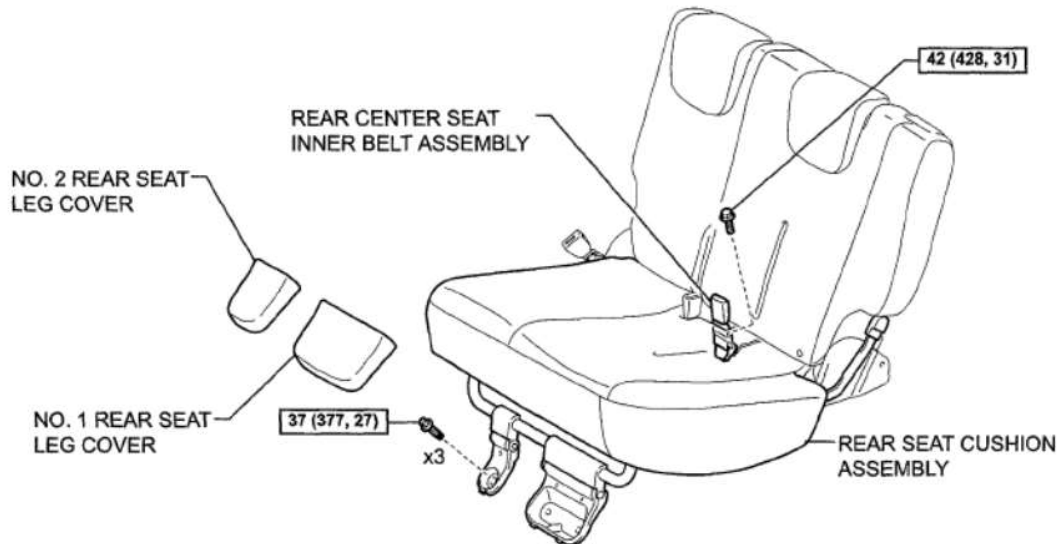


Fig. 93: Identifying Rear Door Opening Trim Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **INSTALL REAR DOOR SCUFF PLATE** (See INSTALLATION)
10. **INSTALL REAR SEAT ASSEMBLY RH** (See INSTALLATION)
11. **INSTALL REAR SEAT ASSEMBLY LH** (See INSTALLATION)
12. **INSTALL NO. 2 REAR SEAT LEG COVER (for LH Side)** (See INSTALLATION)
13. **INSTALL NO. 1 REAR SEAT LEG COVER (for LH Side)** (See INSTALLATION)
14. **INSTALL NO. 1 REAR SEAT LEG COVER (for RH Side)** (See INSTALLATION)
15. **INSTALL DECK BOARD ASSEMBLY** (See INSTALLATION)

REAR CENTER SEAT INNER BELT ASSEMBLY (FOR LH SIDE)

COMPONENTS

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

P

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Fig. 94: Identifying Rear Center Seat Inner Belt Assembly (LH Side) Components With Torque Specifications

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

NOTE: Always use "TORX" socket wrench E10 when removing the rear seat.

1. REMOVE NO. 1 REAR SEAT LEG COVER (See **REMOVAL**)
2. REMOVE NO. 2 REAR SEAT LEG COVER (See **REMOVAL**)
3. REMOVE REAR CENTER SEAT INNER BELT ASSEMBLY
 - a. Using "TORX" socket wrench E10, remove the 3 bolts and pull up the rear seat cushion.

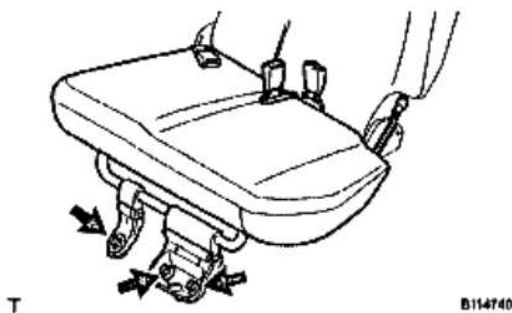


Fig. 95: Locating Rear Seat Cushion Bolts

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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- b. Remove the belt from the band.
- c. Remove the bolt and the rear center seat inner belt.

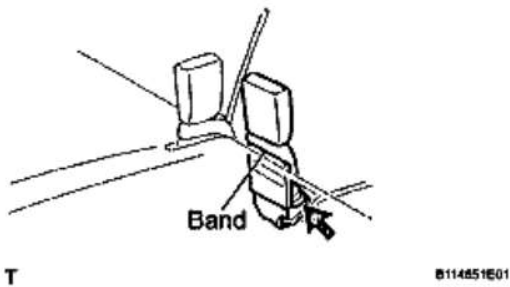


Fig. 96: Identifying Bolt And Rear Center Seat Inner Belt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

NOTE: Always use "TORX" socket wrench E10 when installing the rear seat.

1. INSTALL REAR CENTER SEAT INNER BELT ASSEMBLY

- a. Install the rear center seat inner belt with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

NOTE: Do not place the anchor plate over the convex areas of the rear seat back frame.

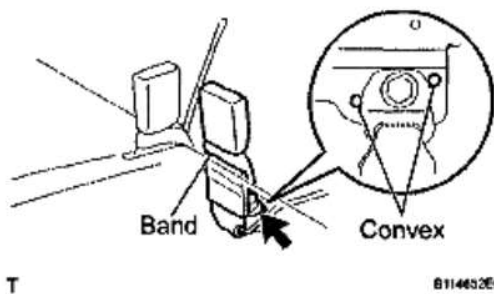


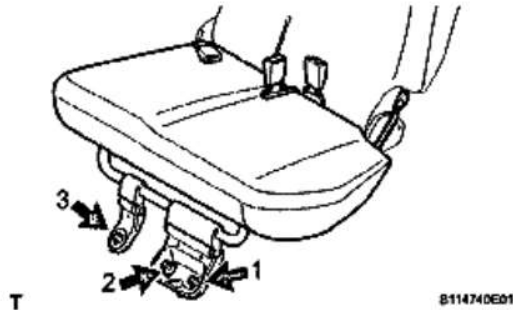
Fig. 97: Identifying Rear Center Seat Inner Belt With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the belt into the band.
- c. Install the rear seat cushion.
- d. Using "TORX" socket wrench E10, tighten the 3 bolts in the sequence shown in the illustration.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

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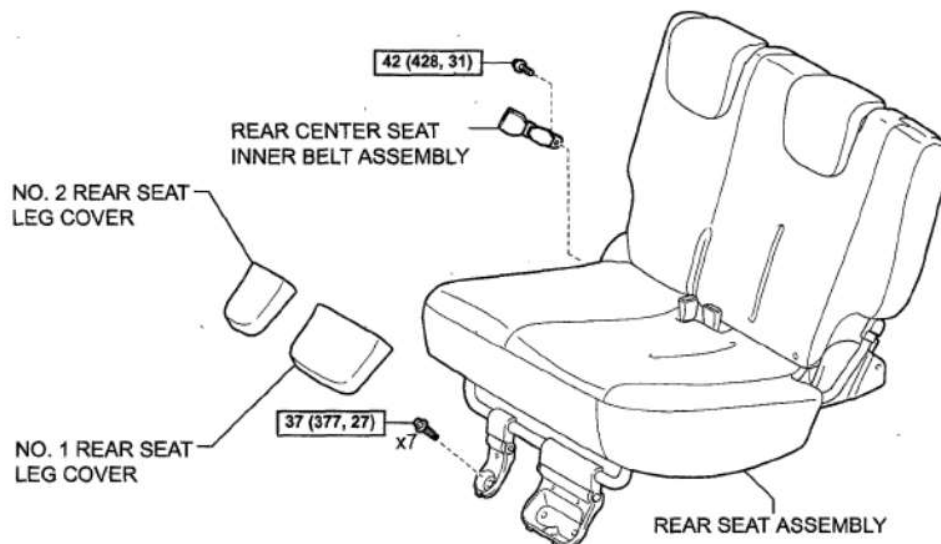
Fig. 98: Locating Rear Seat Cushion Bolts

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL NO. 2 REAR SEAT LEG COVER (See INSTALLATION)
3. INSTALL NO. 1 REAR SEAT LEG COVER (See INSTALLATION)

REAR CENTER SEAT INNER BELT ASSEMBLY (FOR RH SIDE)

COMPONENTS



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

P

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Fig. 99: Identifying Rear Center Seat Inner Belt Assembly (RH Side) Components With Torque Specifications

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

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NOTE: Always use "TORX" socket wrench E10 when removing the rear seat.

1. REMOVE NO. 1 REAR SEAT LEG COVER (See REMOVAL)
2. REMOVE NO. 2 REAR SEAT LEG COVER (See REMOVAL)
3. REMOVE REAR SEAT ASSEMBLY (See REMOVAL)
4. REMOVE REAR CENTER SEAT INNER BELT ASSEMBLY
 - a. Remove the bolt and the rear center seat inner belt.

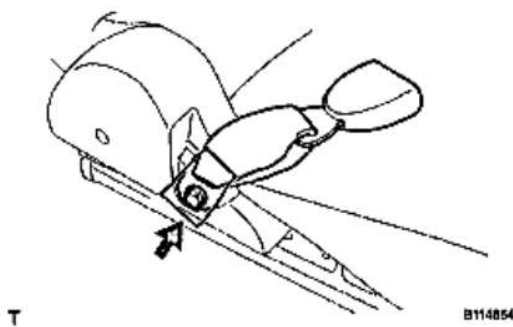


Fig. 100: Identifying Rear Center Seat Inner Belt Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

NOTE: Always use "TORX" socket wrench E10 when installing the rear seat.

1. INSTALL REAR CENTER SEAT INNER BELT ASSEMBLY
 - a. Install the rear center seat inner belt with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

NOTE: Do not place the anchor plate over the convex area of the rear seat back frame.

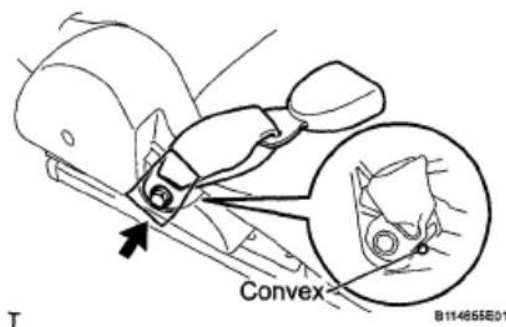


Fig. 101: Locating Rear Center Seat Inner Belt With Bolt

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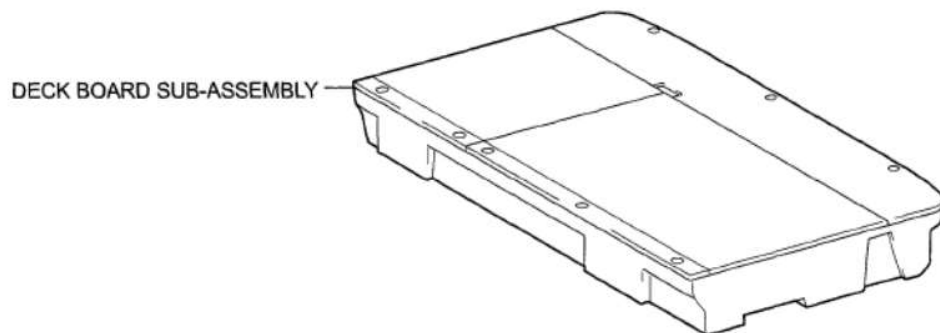
2008 RESTRAINTS Seat Belt - xD

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL REAR SEAT ASSEMBLY (See INSTALLATION)
3. INSTALL NO. 2 REAR SEAT LEG COVER (See INSTALLATION)
4. INSTALL NO. 1 REAR SEAT LEG COVER (See INSTALLATION)

REAR CENTER SEAT OUTER BELT ASSEMBLY

COMPONENTS



37 (377, 27) : Specified torque

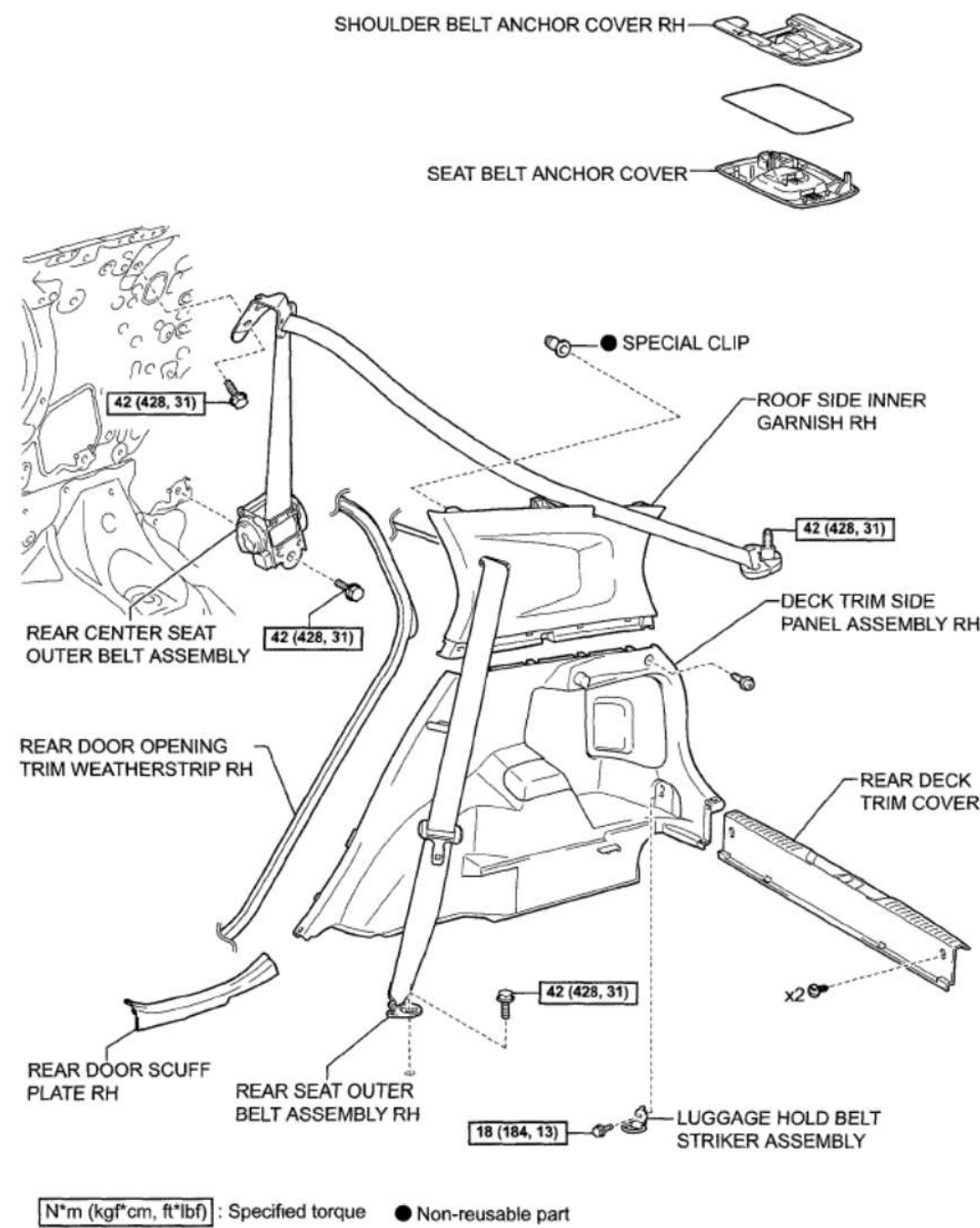
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Fig. 102: Identifying Rear Center Seat Outer Belt Assembly Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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Fig. 103: Identifying Rear Center Seat Outer Belt Assembly Components With Torque Specifications (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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REMOVAL

CAUTION: Always use "TORX" socket wrench E10 when removing the rear seat.

1. REMOVE DECK BOARD SUB-ASSEMBLY (See REMOVAL)
2. REMOVE NO. 1 REAR SEAT LEG COVER (See REMOVAL)
3. REMOVE REAR SEAT ASSEMBLY RH (See REMOVAL)
4. REMOVE REAR DOOR SCUFF PLATE RH (See REMOVAL)
5. REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP RH (See REMOVAL)
6. REMOVE REAR DECK TRIM COVER (See REMOVAL)
7. REMOVE REAR SEAT OUTER BELT ASSEMBLY RH (See REMOVAL)
8. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (See REMOVAL)
9. REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH (See REMOVAL)
10. REMOVE ROOF SIDE INNER GARNISH RH (See REMOVAL)
11. REMOVE REAR CENTER SEAT OUTER BELT ASSEMBLY
 - a. Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and open the slip joint cover.

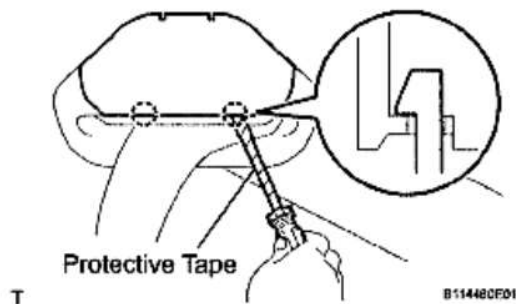


Fig. 104: Disengaging Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

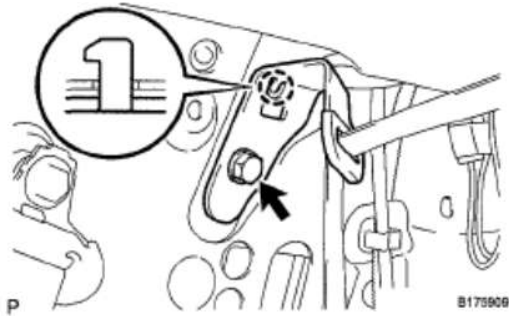
- b. Remove the bolt and the through anchor.



2008 Scion xD**2008 RESTRAINTS Seat Belt - xD****Fig. 105: Locating Anchor Bolt**

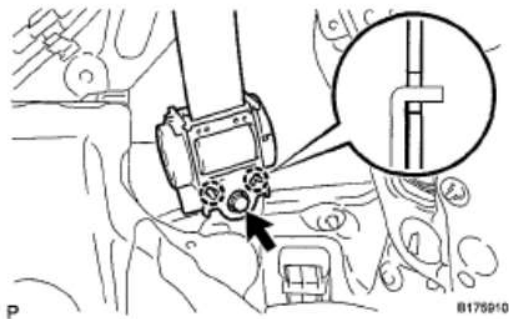
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the bolt, the hook and the bracket.

**Fig. 106: Locating Hook And Bracket**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

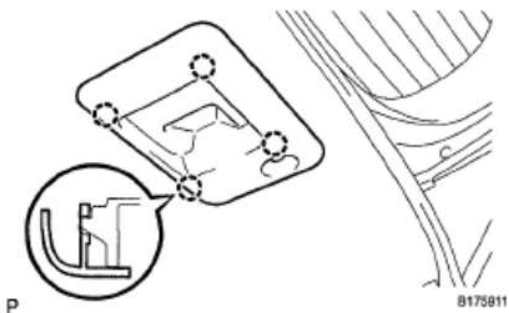
- d. Remove the bolt, the 2 hooks and the retractor.

**Fig. 107: Locating Hooks And Retractor With Bolt**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. REMOVE SEAT BELT ANCHOR COVER

- a. Using a molding remover, disengage the 4 claws and remove the seat belt anchor cover.



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Fig. 108: Identifying Seat Belt Anchor Cover Claws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. REMOVE SHOULDER BELT ANCHOR COVER RH

- a. Remove the rear seat shoulder belt cover.

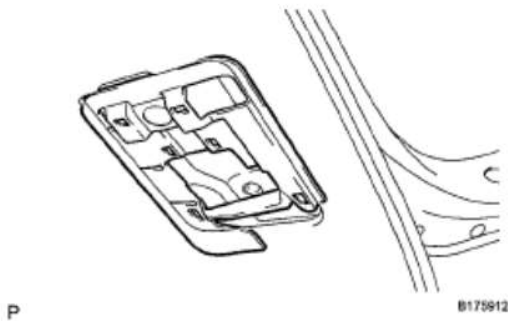


Fig. 109: Identifying Rear Seat Shoulder Belt Cover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

CAUTION: Always use "TORX" socket wrench E10 when installing the rear seat.

1. INSTALL SEAT BELT ANCHOR COVER

- a. Install the rear seat shoulder belt cover.

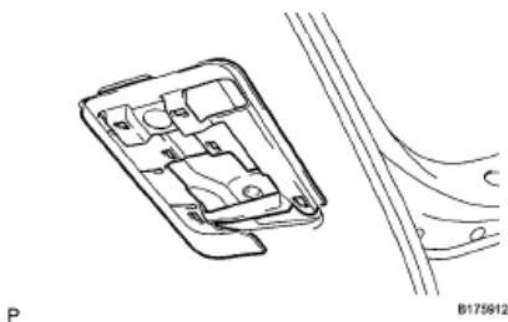


Fig. 110: Identifying Rear Seat Shoulder Belt Cover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL SHOULDER BELT ANCHOR COVER RH

- a. Engage the 4 claws and install the seat belt anchor cover.

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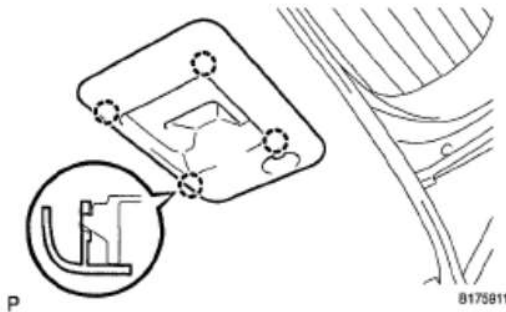


Fig. 111: Identifying Seat Belt Anchor Cover Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. INSTALL REAR CENTER 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.

NOTE: Do not disassemble the retractor. If the operation is not as specified, replace the rear seat outer belt.

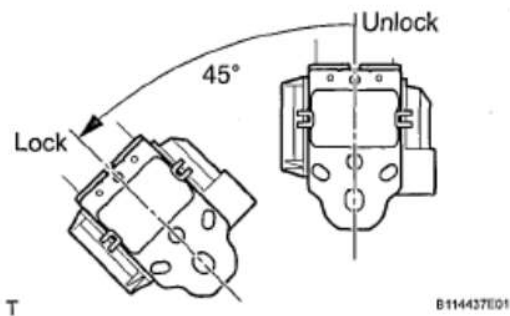


Fig. 112: Identifying Rear Seat Outer Belt Lock And Unlock Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Hook the lower stay of the retractor onto the 2 body hooks and install the retractor with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

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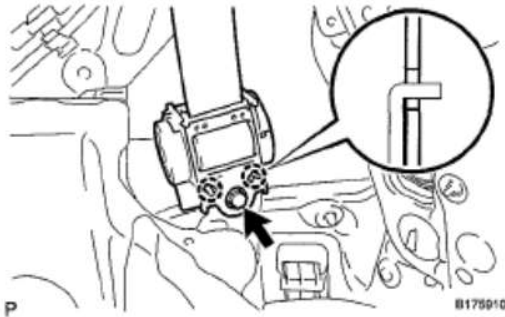


Fig. 113: Locating Hooks And Retractor With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Insert the hook into the body hole and install the bracket with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

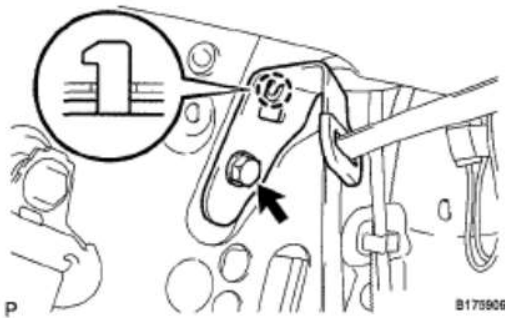


Fig. 114: Locating Hook And Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Check that the ELR locks.

NOTE: Perform the check with the rear center 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 center seat outer belt.

- e. Install the through anchor with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)

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Fig. 115: Locating Anchor Bolt

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- f. Engage the 2 claws and close the slip joint cover.

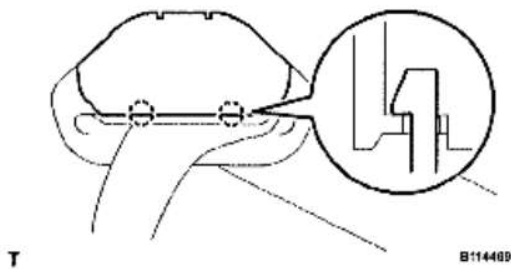


Fig. 116: Engaging Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. INSTALL ROOF SIDE INNER GARNISH RH (See INSTALLATION)
5. INSTALL DECK TRIM SIDE PANEL ASSEMBLY RH (See INSTALLATION)
6. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (See INSTALLATION)
7. INSTALL REAR SEAT OUTER BELT ASSEMBLY RH (See INSTALLATION)
8. INSTALL REAR DECK TRIM COVER (See INSTALLATION)
9. INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP RH (See INSTALLATION)
10. INSTALL REAR DOOR SCUFF PLATE RH (See INSTALLATION)
11. INSTALL REAR SEAT ASSEMBLY RH (See INSTALLATION)
12. INSTALL NO. 1 REAR SEAT LEG COVER (See INSTALLATION)
13. INSTALL DECK BOARD SUB-ASSEMBLY (See INSTALLATION)
14. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)