

2009 Toyota Highlander Limited

2009 RESTRAINTS Seat Belt - Highlander

2009 RESTRAINTS

Seat Belt - Highlander

FRONT PASSENGER SEAT BELT WARNING LIGHT

COMPONENTS

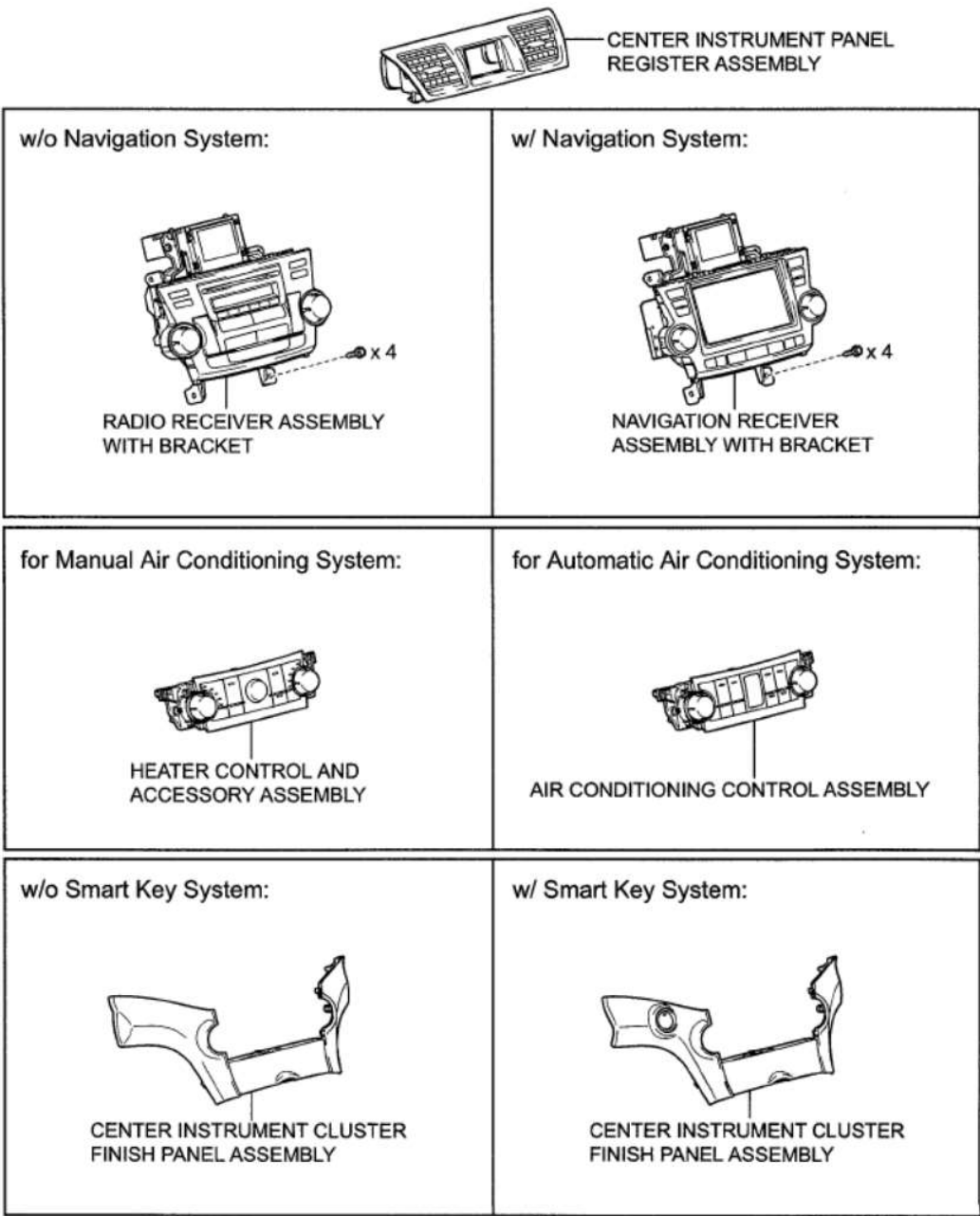


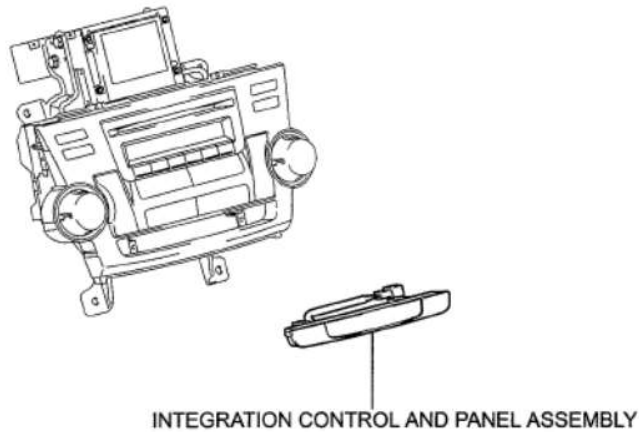
Fig. 1: Identifying Front Passenger Seat Belt Warning Light Components (1 Of 2)

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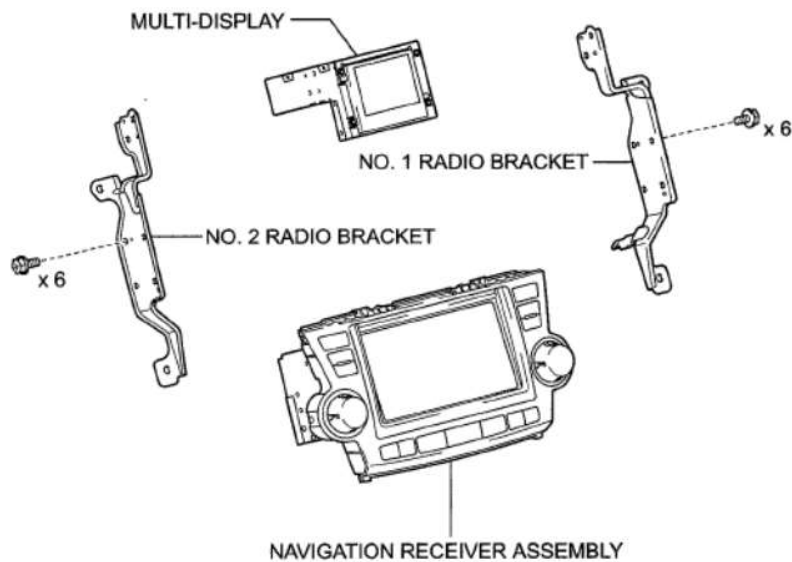
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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

w/o Navigation System:



w/ Navigation System:



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Fig. 2: Identifying Front Passenger Seat Belt Warning Light Components (2 Of 2)
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REMOVAL

1. **REMOVE CENTER INSTRUMENT PANEL REGISTER ASSEMBLY** (See **REMOVAL**)
2. **REMOVE CENTER INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (w/o Smart Key System)** (See **REMOVAL**)
3. **REMOVE CENTER INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (w/ Smart Key System)** (See **REMOVAL**)
4. **REMOVE HEATER CONTROL AND ACCESSORY ASSEMBLY (for Manual Air Conditioning System)** (See **AIR CONDITIONING PANEL (FOR MANUAL AIR CONDITIONING SYSTEM)**)
5. **REMOVE AIR CONDITIONING CONTROL ASSEMBLY (for Automatic Air Conditioning System)** (See **REMOVAL**)
6. **REMOVE RADIO RECEIVER ASSEMBLY WITH BRACKET (w/o Navigation System)** (See **REMOVAL**)
7. **REMOVE NAVIGATION RECEIVER ASSEMBLY WITH BRACKET (w/ Navigation System)** (See **REMOVAL**)
8. **REMOVE INTEGRATION CONTROL AND PANEL ASSEMBLY (w/o Navigation System)**
 - a. Disengage the claw and disconnect the connector.

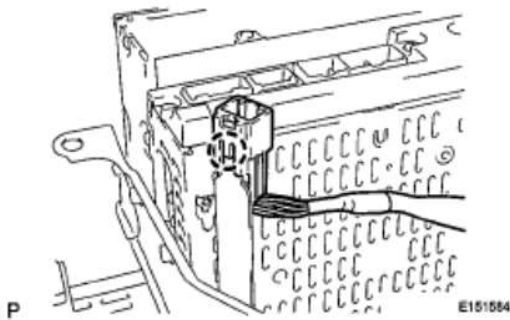


Fig. 3: Identifying Connector Claw

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

- b. Disengage the 2 clips and remove the integration control and panel assembly.
9. **REMOVE NO. 1 RADIO BRACKET (w/ Navigation System)** (See **REMOVAL**)
10. **REMOVE NO. 2 RADIO BRACKET (w/ Navigation System)** (See **INSTALLATION**)
11. **REMOVE NAVIGATION RECEIVER ASSEMBLY (w/ Navigation System)**

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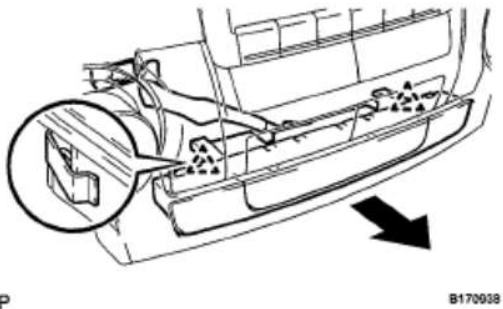


Fig. 4: Removing Integration Control And Panel Assembly Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT TELLTALE LIGHT ASSEMBLY**
- a. Check that the telltale light assembly (front passenger seat belt warning light) condition.

1. Apply battery voltage to the connector according to the table below.

OK

BATTERY VOLTAGE SPECIFICATION

Tester Connection	Condition	Specified Condition
Battery positive (+) --> E19-3 (PBEW)	Seat belt is fastened	Seat belt warning light comes on
Battery negative (-) --> E19-5 (E)		

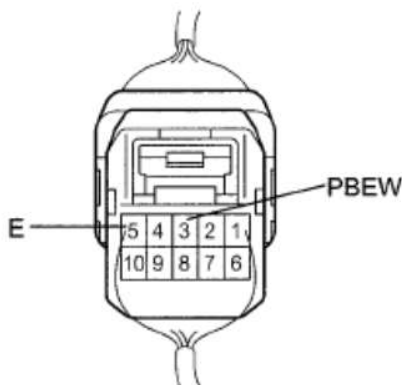
INSTALLATION

1. **INSTALL NAVIGATION RECEIVER ASSEMBLY (w/ Navigation System)**
2. **INSTALL NO. 2 RADIO BRACKET (w/ Navigation System)** (See **INSTALLATION**)
3. **INSTALL NO. 1 RADIO BRACKET (w/ Navigation System)** (See **INSTALLATION**)

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Component with harness connected:
(Front Passenger Seat Belt Warning Light)

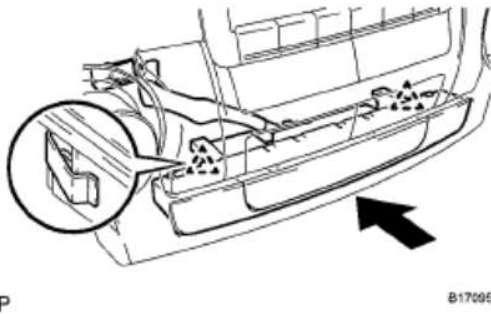


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Fig. 5: Identifying Front Passenger Seat Belt Warning Light Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL INTEGRATION CONTROL AND PANEL ASSEMBLY (w/o Navigation System)**
 - a. Engage the 2 clips and install the integration control and panel assembly.



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Fig. 6: Installing Integration Control And Panel Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Engage the claw and connect the connector.
5. **INSTALL NAVIGATION RECEIVER ASSEMBLY WITH BRACKET (w/ Navigation System)**
(See INSTALLATION)
6. **INSTALL RADIO RECEIVER ASSEMBLY WITH BRACKET (w/o Navigation System)** (See INSTALLATION)
7. **INSTALL HEATER CONTROL AND ACCESSORY ASSEMBLY (for Manual Air Conditioning System)** (See AIR CONDITIONING PANEL (FOR MANUAL AIR CONDITIONING SYSTEM))

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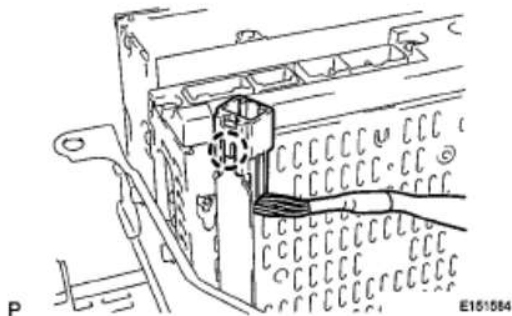


Fig. 7: Identifying Connector Claw

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

8. **INSTALL AIR CONDITIONING CONTROL ASSEMBLY** (for Automatic Air Conditioning System) (See **REMOVAL**)
9. **INSTALL CENTER INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY** (w/o Smart Key System) (See **INSTALLATION**)
10. **INSTALL CENTER INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY** (w/ Smart Key System) (See **INSTALLATION**)
11. **INSTALL CENTER INSTRUMENT PANEL REGISTER ASSEMBLY** (See **INSTALLATION**)

SEAT BELT WARNING SYSTEM

PRECAUTION

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

SYSTEM NAME REFERENCE

System Name	See procedure
Power Back Door System	<u>INITIALIZATION</u>

1. IGNITION SWITCH EXPRESSIONS

HINT:

The type of ignition switch used on this model differs according to the specifications of the vehicle. The expressions listed in the table below are used in this article.

IGNITION SWITCH POSITION

Expression	Ignition Switch (position)	Engine Switch (condition)
Ignition Switch off	LOCK	Off
Ignition Switch on (IG)	ON	On (IG)
Ignition Switch on (ACC)	ACC	On (ACC)
Engine Start	START	Start

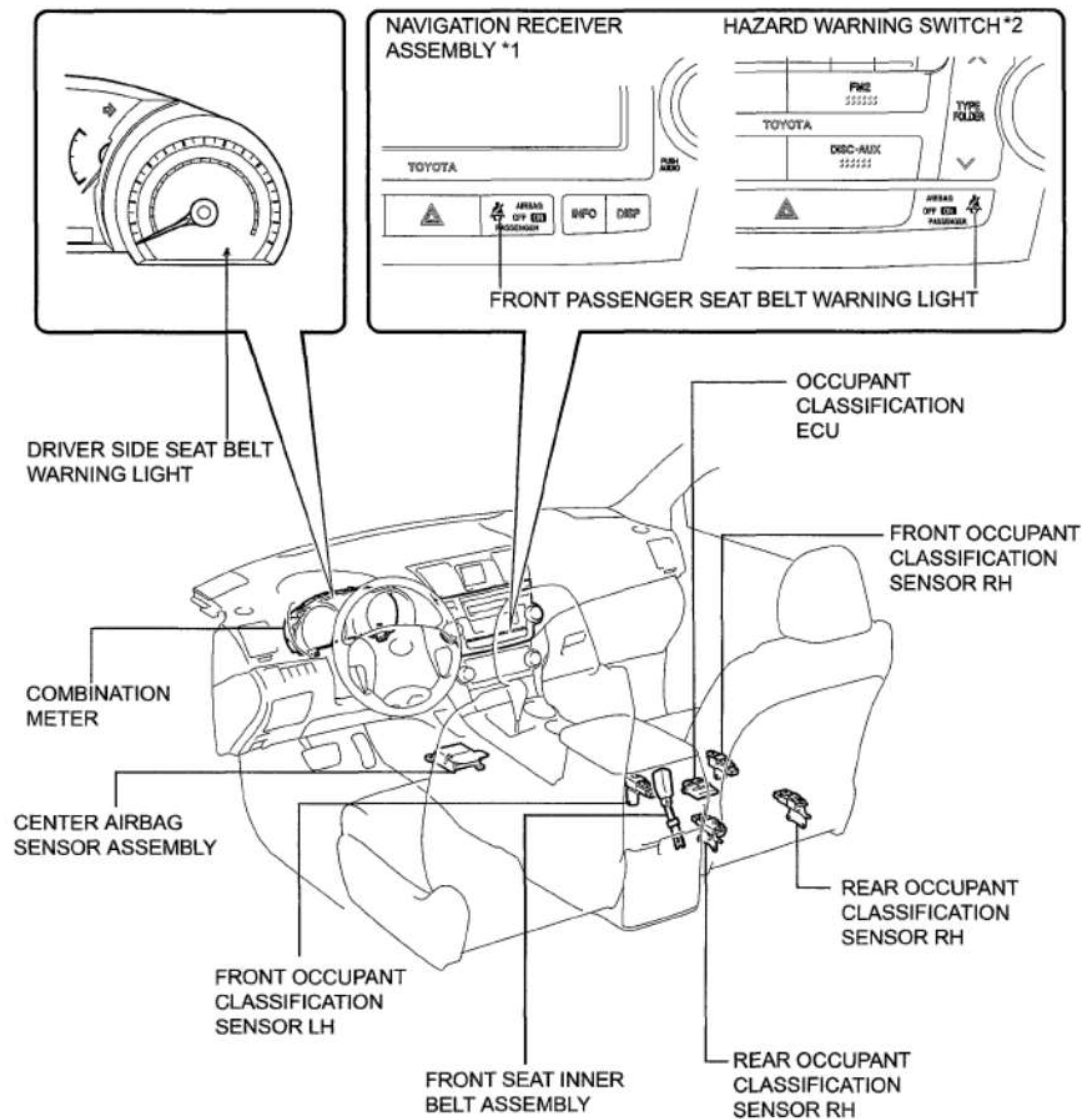
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PARTS LOCATION

*1: w/ NAVIGATION SYSTEM

*2: w/o NAVIGATION SYSTEM

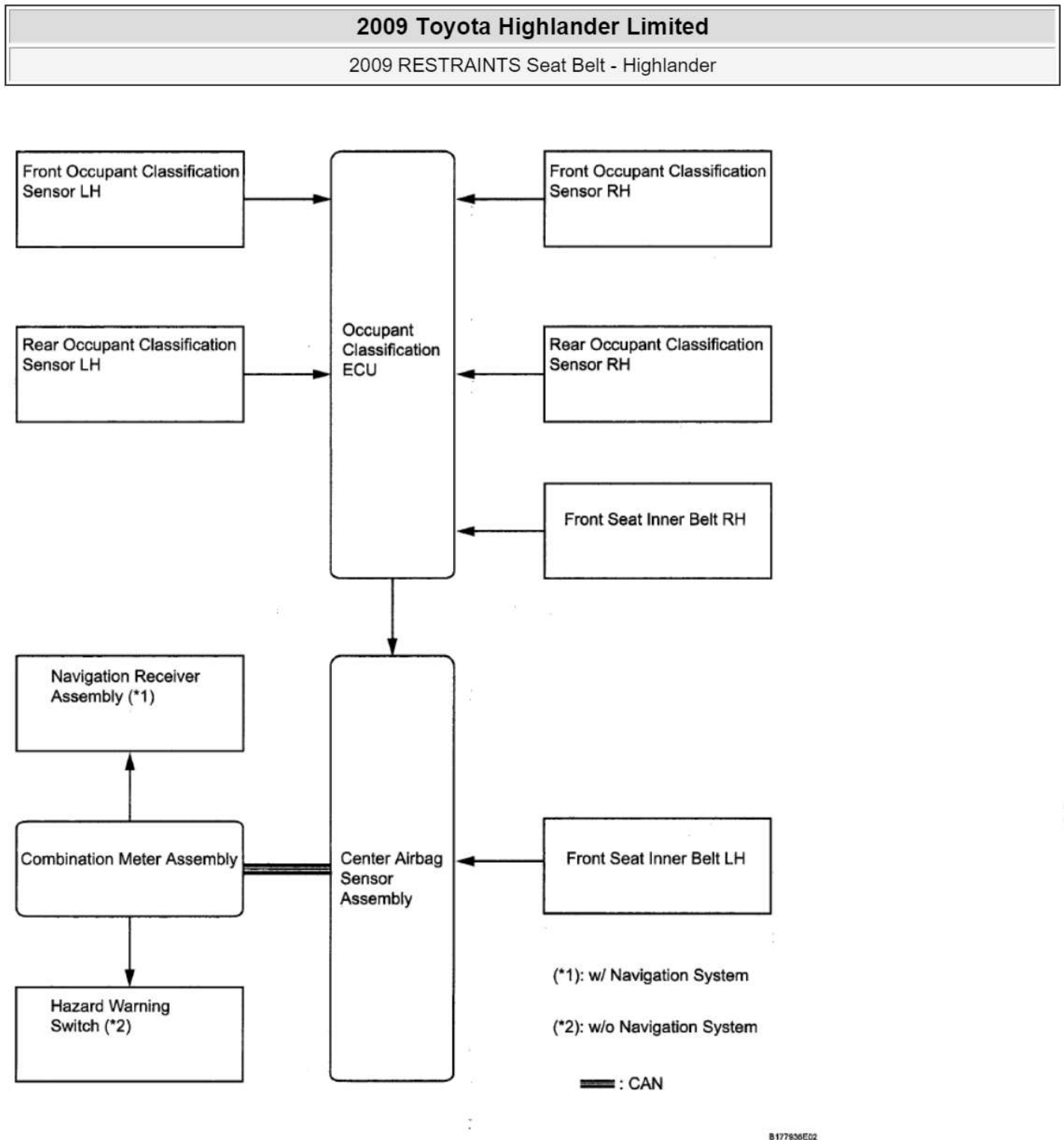


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Fig. 8: Identifying Seat Belt Warning System Parts Location
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SYSTEM DIAGRAM

**Fig. 9: Seat Belt Warning System Diagram**

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

SYSTEM DESCRIPTION**1. Driver seat belt warning light**

- a. When the driver seat belt is not fastened with the ignition switch on (IG), the driver seat belt warning light on the combination meter assembly comes on to inform the driver. The center airbag assembly detects the driver seat belt condition and sends signals to the body ECU and the meter

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assembly via CAN communication.

2. Passenger seat belt warning

- a. When the passenger seat belt is not fastened with the ignition switch on (IG) position and the passenger seat occupied, check that the passenger seat belt warning light on navigation receiver*1 or hazard warning switch*2 blinks. The occupant detection sensor detects if the passenger seat is occupied and sends signals to the meter assembly. The inner belt detects the passenger seat belt condition and sends signals to the meter assembly. After receiving the signals from the occupant detection sensor and inner belt, the meter assembly sends signals to navigation receiver*1 or hazard warning switch*2 to request the passenger seat belt warning light to blink or go off.

HINT:

- *1: w/ Navigation System
- *2: w/o Navigation System

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use the following procedure to troubleshoot the seat belt warning system.
- *: Use Techstream.

1. VEHICLE BROUGHT TO WORKSHOP
2. INSPECT BATTERY VOLTAGE

Standard voltage:

11 to 14 V

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

3. CHECK CAN COMMUNICATION SYSTEM*

- a. Use Techstream to check if the CAN Communication System is functioning normally.

Result

DTC OUTPUT REFERENCE

Result	Proceed to
CAN DTC is not output	A
CAN DTC is output	B

B: GO TO CAN COMMUNICATION SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

A: Go to next step

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4. PROBLEM SYMPTOMS TABLE

HINT:

(See PROBLEM SYMPTOMS TABLE).

5. OVERALL ANALYSIS AND TROUBLESHOOTING*

- a. DATA LIST/ACTIVE TEST (See DATA LIST/ACTIVE TEST).
- b. Terminals of ECU (See TERMINALS OF ECU).
- c. On-vehicle Inspection (See ON-VEHICLE INSPECTION).

6. REPAIR OR REPLACE

7. CONFIRMATION TEST

NEXT: END

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 SYMPTOM

Symptom	Suspected Area	See page
Driver side seat belt warning light does not operate	Front seat inner belt LH	<u>DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE</u>
	Center airbag sensor assembly	-
	Combination meter assembly	-
	Wire harness or connector	-
	Main body ECU (Instrument panel junction block)	-
Front passenger seat belt warning light does not operate	Front seat inner belt RH	<u>FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION</u>
	Occupant detection ECU	-
	Road sensor	-
	Center airbag sensor assembly	-
	Combination meter	-

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	Clock assembly	-	
	Wire harness or connector	-	

TERMINALS OF ECU

1. NAVIGATION RECEIVER ASSEMBLY



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Fig. 10: Identifying E19 Navigation Receiver Assembly Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard voltage

STANDARD VOLTAGE SPECIFICATION

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
E19-1 (B) - Body ground	B - Body ground	Backup power supply	Always	Below 1 V --> 11 to 14 V

Standard resistance

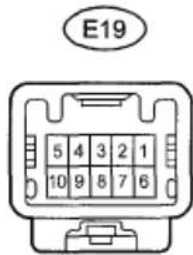
STANDARD RESISTANCE SPECIFICATION

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
E19-3 (PBEW) - Body ground	BR - Body ground	Passenger seat belt signal	The passenger seat is occupied, seat belt is fastened --> unfastened Below 1 ohms -->	10 kohms or higher
E19-S (E) - Body ground	W - Body ground	Ground	Always	Below 1 ohms

2. HAZARD WARNING SWITCH

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Fig. 11: Identifying E19 Hazard Warning Switch Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard voltage

STANDARD VOLTAGE SPECIFICATION

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
E19-1 (B) - Body ground	B - Body ground	Backup power supply	Always	Below 1 V --> 10 to 14 V

Standard resistance

STANDARD RESISTANCE SPECIFICATION

Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
E19-3 (PBEW) - Body ground	BR - Body ground	Passenger seat belt signal	The passenger seat is occupied, seat belt is fastened --> unfastened Below 1 ohms -->	10 kohms or higher
E19-5 (E) - Body ground	W - Body ground	Ground	Always	Below 1 ohms

DIAGNOSIS SYSTEM

1. DESCRIPTION

- The seat belt warning system data can be read from the Data Link Connector 3 (DLC3) of the vehicle. When the system seems to be malfunctioning, use Techstream to check for malfunctions and perform repairs.

2. CHECK DLC3

- Check DLC3 (See **HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS**).

3. INSPECT BATTERY VOLTAGE

Standard voltage:

11 to 14 V

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

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DATA LIST/ACTIVE TEST

1. ACTIVE TEST

Performing the ACTIVE TEST using Techstream allows the meters, indicators and so on to operate without removing any parts. Performing the ACTIVE TEST as the first step in troubleshooting is one way to shorten labor time.

- a. Connect Techstream to the DLC3.
- b. Turn the ignition switch on (IG).
- c. From the display on the tester, select the "ACTIVE TEST".

METER:

TESTER DISPLAY REFERENCE

Tester Display	Test Part	Control Range	Diagnostic Note
Front Passenger Side Seat Belt	Front passenger side seat belt warning light	Front passenger side seat belt warning light is OFF/ON	Confirm that the vehicle is stopped with the engine idling
Driver Side Seat Belt	Driver side seat belt warning light	Driver side seat belt warning light is OFF/ON	Confirm that the vehicle is stopped with the engine idling

ON-VEHICLE INSPECTION

1. INSPECT DRIVER SIDE SEAT BELT WARNING

- a. Turn the ignition switch on (IG).
- 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 light on the combination meter is off.

2. INSPECT PASSENGER SIDE SEAT BELT WARNING

- a. Turn the ignition switch on (IG).
- 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 clock display 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 navigation receiver*1 or hazard warning switch*2 is off.

HINT:

- *1: w/ Navigation System
- *2: w/o Navigation System

3. INSPECT SEAT BELT WARNING BUZZER

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HINT:

- If the buzzer does not sound, the buzzer cancel setting may be set to ON.
 - Only Techstream can change the buzzer cancel setting to off. (See **CUSTOMIZE PARAMETERS**)
 - The buzzer sounds for 6 seconds if the front seat belts are not fastened even while the vehicle is stationary.
- a. Start the engine.
 - b. When the vehicle is driven at approximately 20 km/h (12.5 mph) or more with the driver or front passenger seat belt not fastened, check that the buzzer in the combination meter assembly sounds at intervals of 1.2 seconds for 30 seconds.
 - c. With the belt remaining unfastened, check that the buzzer changes and sounds at intervals of 0.4 seconds for 90 seconds.
 - d. Check that the buzzer stops 2 minutes 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 (12.5 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 (12.5 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 (12.5 mph) or more, and then check that the buzzer sounds again.

DRIVER SIDE SEAT BELT WARNING LIGHT DOES NOT OPERATE

DESCRIPTION

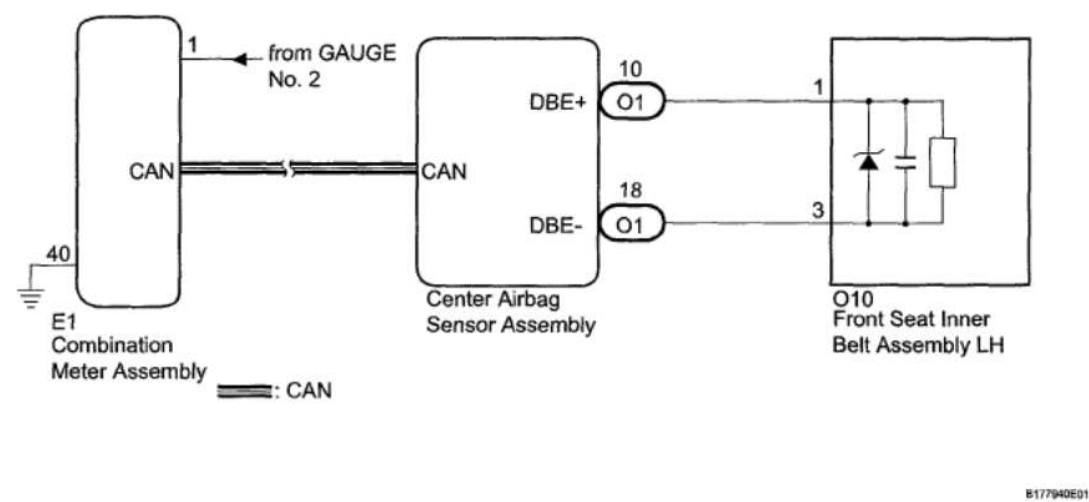
When the ignition switch is on (IG), the center airbag sensor assembly transmits front seat inner belt status signals to the combination meter assembly through CAN. If the driver seat belt is not fastened, the combination meter assembly blinks the driver seat belt warning light. If the seat belt is fastened, the warning light goes off.

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

WIRING DIAGRAM

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INSPECTION PROCEDURE

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

Result

DTC OUTPUT REFERENCE

Result	Proceed to
Output DTC (CAN communication)	A
Output DTC (Airbag system)	B
No output DTC	C

A: GO TO CAN COMMUNICATION SYSTEM (See **HOW TO PROCEED WITH TROUBLESHOOTING**)

B: GO TO AIRBAG SYSTEM (See **DIAGNOSTIC TROUBLE CODE CHART**)

C: Go to next step

2. PERFORM ACTIVE TEST USING TECHSTREAM
 - a. Operate Techstream according to the steps on the display and select "ACTIVE TEST".

Combination Meter

TESTER DISPLAY REFERENCE

Tester Display	Test Part	Control Range	Diagnostic Note

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Driver Side Seat Belt	Driver side seat belt warning light	Driver side seat belt warning light is OFF/ON	Confirm that the vehicle is stopped, engine idling
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OK:

Switch condition (ON/OFF) can be switched by "ACTIVE TEST".

NG: REPLACE COMBINATION METER ASSEMBLY (See **REMOVAL**)

OK: END

FRONT PASSENGER SIDE SEAT BELT WARNING LIGHT MALFUNCTION

DESCRIPTION

The occupant detection ECU detects the state of the front seat inner belt assembly RH and road sensor when the front passenger seat is occupied with the ignition switch on (IG). If the front passenger seat belt is not fastened, the front seat belt warning light on the navigation receiver assembly*1 or hazard warning light*2 blinks. If the seat belt is fastened, the warning light goes off.

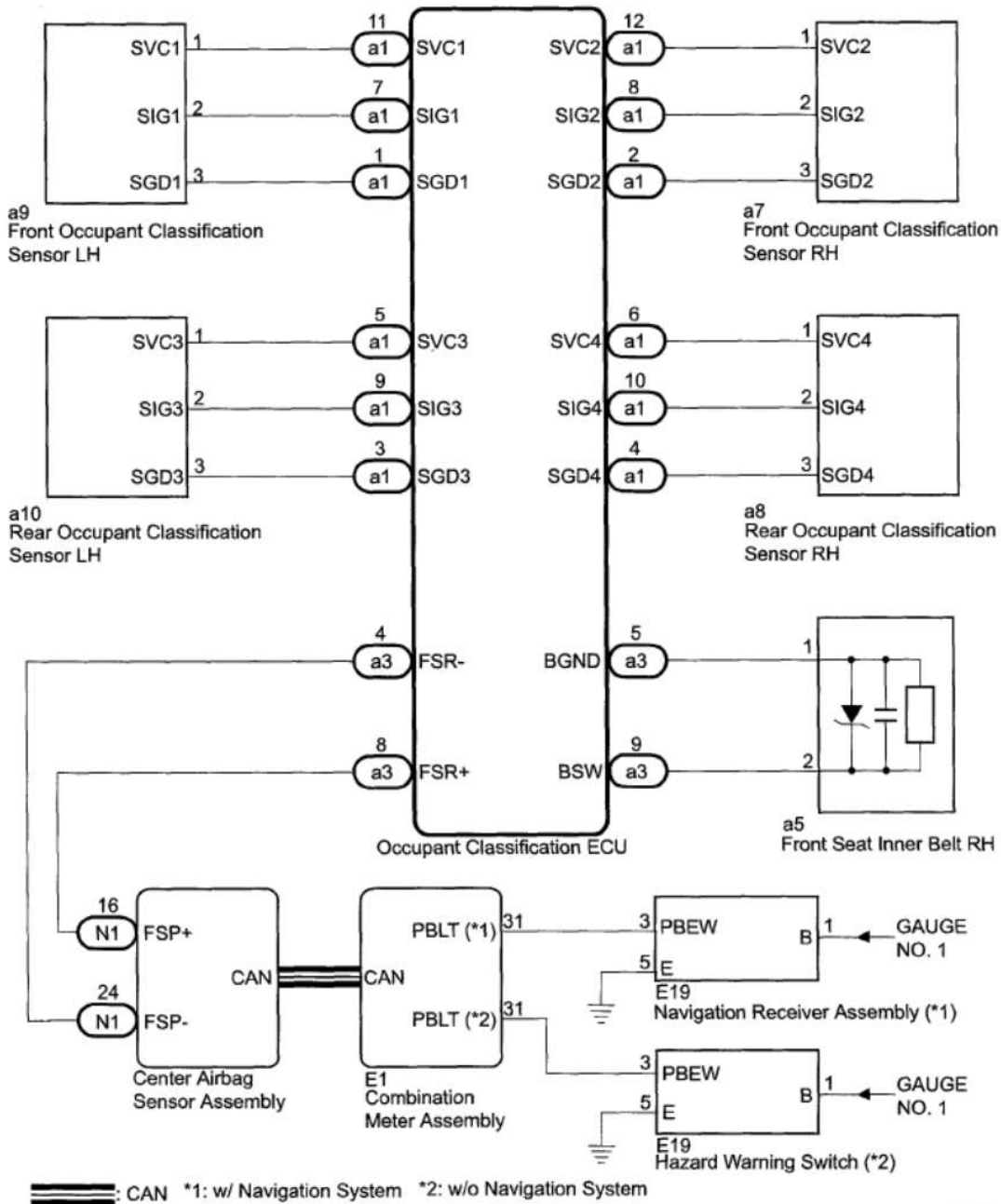
HINT:

- *1: w/ Navigation System
- *2: w/o Navigation System

WIRING DIAGRAM

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INSPECTION PROCEDURE

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

Result

2009 Toyota Highlander Limited**2009 RESTRAINTS Seat Belt - Highlander****DTC OUTPUT REFERENCE**

Result	Proceed to
No output DTC	A
Output DTC (CAN communication)	B
Output DTC (Occupant detection)	C

B: GO TO CAN COMMUNICATION SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

C: GO TO OCCUPANT CLASSIFICATION SYSTEM (See DIAGNOSTIC TROUBLE CODE CHART)

A: Go to next step

2. PERFORM ACTIVE TEST USING TECHSTREAM

- Connect Techstream to the DLC3.
- Turn the ignition switch on (IG).
- Read the DATA LIST according to the displays on the tester screen.

Combination Meter**TESTER DISPLAY REFERENCE**

Tester Display	Test Part	Control Range	Diagnostic Note
Front Passenger Side Seat Belt	Front passenger side seat belt warning light	Front passenger side seat belt warning light is OFF/ON	Confirm that the vehicle is stopped, engine idling

OK:

Switch condition (ON or OFF) can be switched by "ACTIVE TEST"

NG: Go to step 3

OK: REPLACE COMBINATION METER (See REMOVAL)

3. CHECK WIRE HARNESS (BATTERY POSITIVE AND BODY GROUND)

- Disconnect the E19 connector.
- Measure the voltage and resistance according to the value(s) in the table below.

Standard voltage**STANDARD VOLTAGE SPECIFICATION**

Tester Connection	Condition	Specified Condition
E19-1 (B) - Body ground	Ignition switch on (IG)	11 to 14 V

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Standard resistance

STANDARD RESISTANCE SPECIFICATION

Tester Connection	Condition	Specified Condition
E19-5 (E) - Body ground	Always	Below 1 ohms

NG: REPAIR OR REPLACE HARNESS OR CONNECTOR, OR REPLACE FUSE

Front view of wire harness connector:
(to Hazard Warning Switch)

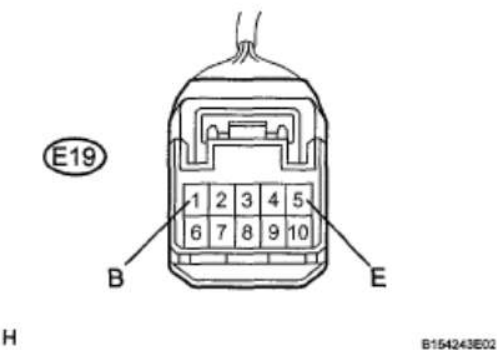


Fig. 14: Identifying E19 Hazard Warning Switch Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

OK: Go to next step

4. CHECK HARNESS OR CONNECTOR

- a. Disconnect the E1 connector.
- b. Measure the resistance according to the value(s) in the table below.

Standard resistance

STANDARD RESISTANCE SPECIFICATION

Tester Connection	Condition	Specified Condition
E1-31 (PBLT) - E19-3 (PBEW)	Always	Below 1 ohms
E1-31 (PBLT) or E19-3 (PBEW) - Body ground	Always	10 kohms or higher

- c. Proceed to the next step based on the inspection result.

Result

RESULT REFERENCE

Result	Proceed to

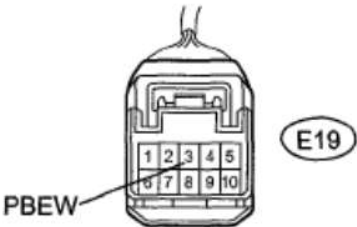
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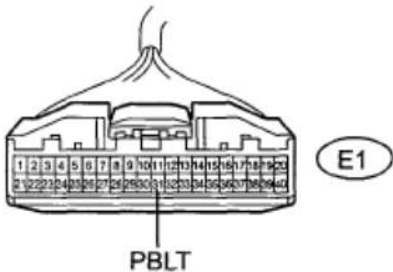
NG	A
OK (w/ Navigation System)	B
OK (w/o Navigation System)	C

- A: REPAIR OR REPLACE HARNESS OR CONNECTOR
- B: REPLACE NAVIGATION RECEIVER ASSEMBLY (See REMOVAL)

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



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



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Fig. 15: Identifying E19 Front Passenger Seat Belt Warning And E1 Combination Meter Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- C: REPLACE HAZARD WARNING SWITCH (See REMOVAL)

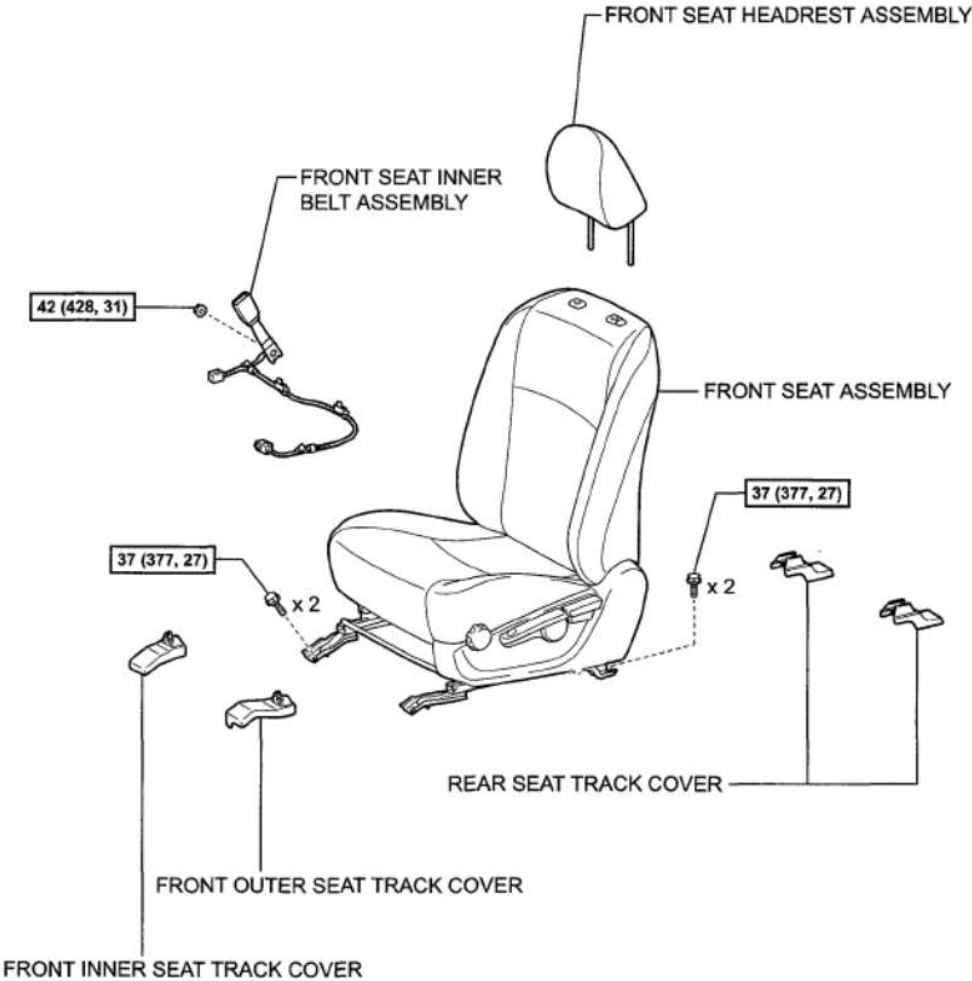
FRONT SEAT INNER BELT ASSEMBLY

COMPONENTS

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for Manual Seat:



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

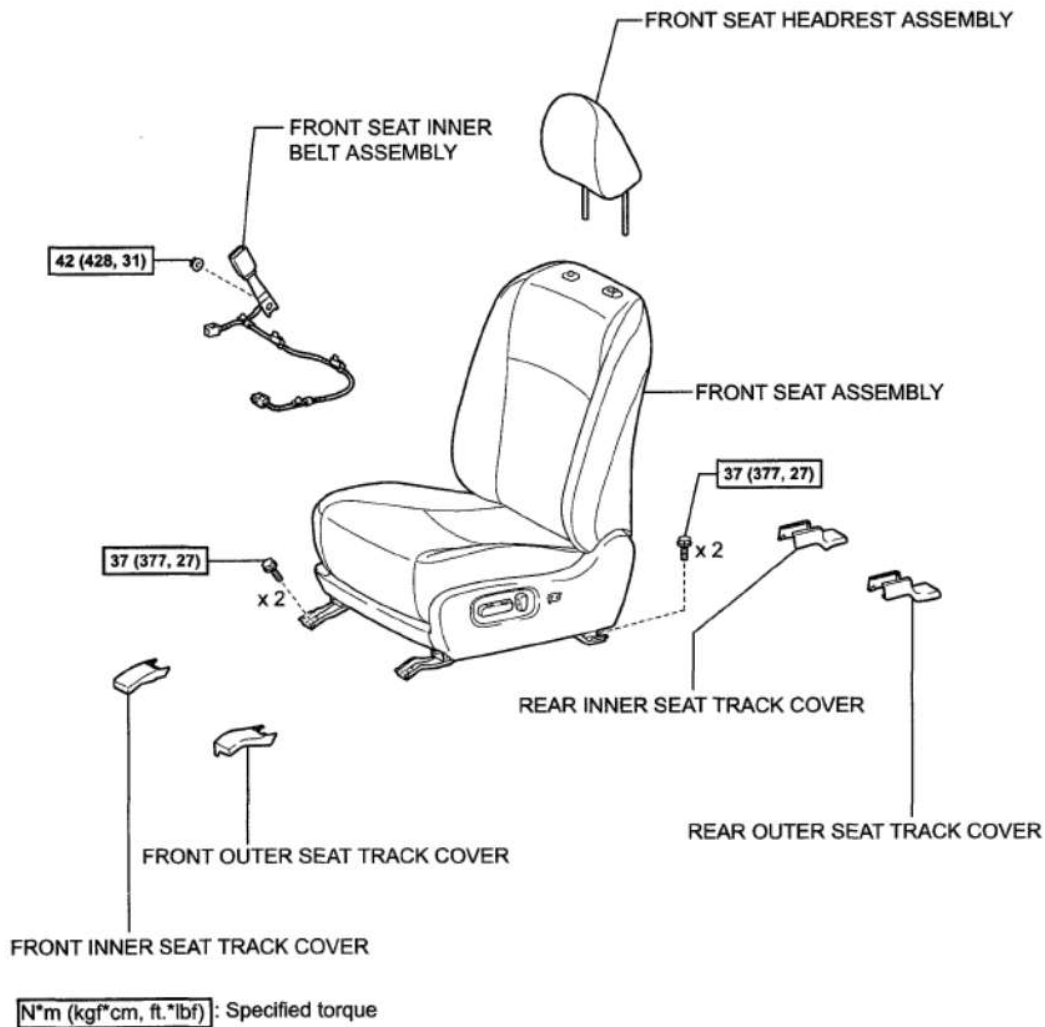
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Fig. 16: Identifying Front Seat Inner Belt Assembly Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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for Power Seat:



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Fig. 17: Identifying Front Seat Inner Belt Assembly Components With Torque Specification (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL (for Manual Seat)

CAUTION: Wait for 90 seconds after disconnecting the cable to prevent airbag deployment (See AIRBAG SYSTEM).

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NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

2. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Manual Seat) (See REMOVAL)
3. REMOVE FRONT OUTER SEAT TRACK COVER (for Manual Seat) (See REMOVAL)
4. REMOVE FRONT INNER SEAT TRACK COVER (for Manual Seat) (See REMOVAL)
5. REMOVE REAR SEAT TRACK COVER (for Manual Seat) (See REMOVAL)
6. REMOVE FRONT SEAT ASSEMBLY (for Manual Seat) (See REMOVAL)
7. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Power Seat) (See REMOVAL)
8. REMOVE FRONT OUTER SEAT TRACK COVER (for Power Seat) (See REMOVAL)
9. REMOVE FRONT INNER SEAT TRACK COVER (for Power Seat) (See REMOVAL)
10. REMOVE REAR OUTER SEAT TRACK COVER (for Power Seat) (See REMOVAL)
11. REMOVE REAR INNER SEAT TRACK COVER (for Power Seat) (See REMOVAL)
12. REMOVE FRONT SEAT ASSEMBLY (for Power Seat) (See REMOVAL)
13. REMOVE FRONT SEAT INNER BELT ASSEMBLY (for Manual Seat)
 - a. Disconnect each connector and clamp.
 - b. Remove the nut and the front seat inner belt assembly.
14. REMOVE FRONT SEAT INNER BELT ASSEMBLY (for Power Seat)
 - a. Disconnect each connector and clamp.



Fig. 18: Identifying Front Seat Inner Belt Assembly Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the nut and the front seat inner belt assembly.

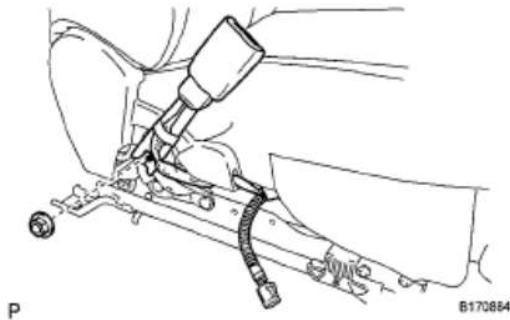
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Fig. 19: Identifying Front Seat Inner Belt Assembly Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION**1. INSTALL FRONT SEAT INNER BELT ASSEMBLY (for Power Seat)**

- a. Install the front seat inner belt assembly with the nut.

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

NOTE: Do not allow the anchor part of the front seat inner belt assembly to overlap the protruding part of the front seat adjuster.

- b. Connect each connector and clamp.

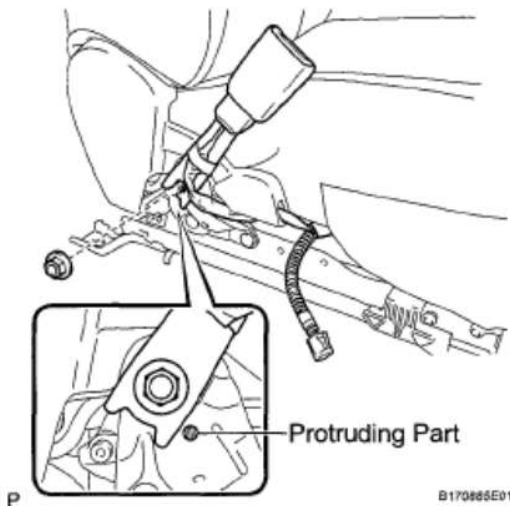


Fig. 20: Identifying Front Seat Inner Belt Assembly (Power Seat) With Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT SEAT INNER BELT ASSEMBLY (for Manual Seat)

- a. Install the front seat inner belt assembly with the nut.

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

NOTE: Do not allow the anchor part of the front seat inner belt assembly to overlap the protruding part of the front seat adjuster.

b. Connect each connector and clamp.

3. **INSTALL FRONT SEAT ASSEMBLY (for Power Seat)** (See INSTALLATION)
4. **INSTALL REAR INNER SEAT TRACK COVER (for Power Seat)** (See INSTALLATION)
5. **INSTALL REAR OUTER SEAT TRACK COVER (for Power Seat)** (See INSTALLATION)

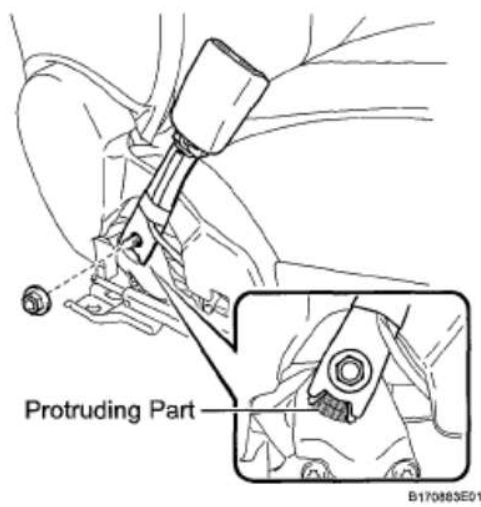


Fig. 21: Identifying Front Seat Inner Belt Assembly (Manual Seat) With Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL FRONT INNER SEAT TRACK COVER (for Power Seat)** (See INSTALLATION)
7. **INSTALL FRONT OUTER SEAT TRACK COVER (for Power Seat)** (See INSTALLATION)
8. **INSTALL FRONT SEAT HEADREST ASSEMBLY (for Power Seat)** (See INSTALLATION)
9. **INSTALL FRONT SEAT ASSEMBLY (for Manual Seat)** (See INSTALLATION)
10. **INSPECT FRONT SEAT SLIDE ADJUSTER LOCK (for Manual Seat)** (See INSTALLATION)
11. **INSTALL REAR SEAT TRACK COVER (for Manual Seat)** (See INSTALLATION)
12. **INSTALL FRONT INNER SEAT TRACK COVER (for Manual Seat)** (See INSTALLATION)
13. **INSTALL FRONT OUTER SEAT TRACK COVER (for Manual Seat)** (See INSTALLATION)
14. **INSTALL FRONT SEAT HEADREST ASSEMBLY (for Manual Seat)** (See INSTALLATION)
15. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL (for Manual Seat)**

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

16. **INSPECT FRONT SEAT ASSEMBLY (for Power Seat)** (See INSTALLATION)

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17. **INSPECT FRONT SEAT ASSEMBLY (for Manual Seat)** (See INSTALLATION)

18. **INSPECT SRS WARNING LIGHT (w/ Front Seat Side Airbag)**

(See DIAGNOSIS SYSTEM)

FRONT SEAT OUTER BELT ASSEMBLY

PRECAUTION

CAUTION: Replace the faulty parts of the seat belt systems (outer belt, inner belt, bolts, nuts, adjustable shoulder anchor, tether anchor hardware and other related parts). When inspecting a vehicle that was in a collision, be sure to check all of the seat belt systems regardless of whether or not the system was activated in the collision. Replace any damaged or malfunctioning systems.

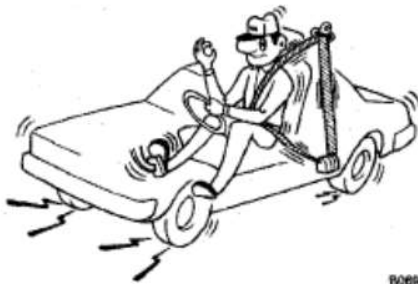


Fig. 22: Checking Belts Lock

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

1. RUNNING TEST (IN SAFE AREA)

CAUTION: Conduct this test in a safe area.

- Fasten the front seat belt.
- Drive the vehicle at 16 km/h (10 mph) and firmly depress the brake pedal. Check that the belts lock and cannot be extended at this time.

If a belt does not lock, replace the seat belt assembly (See REMOVAL).

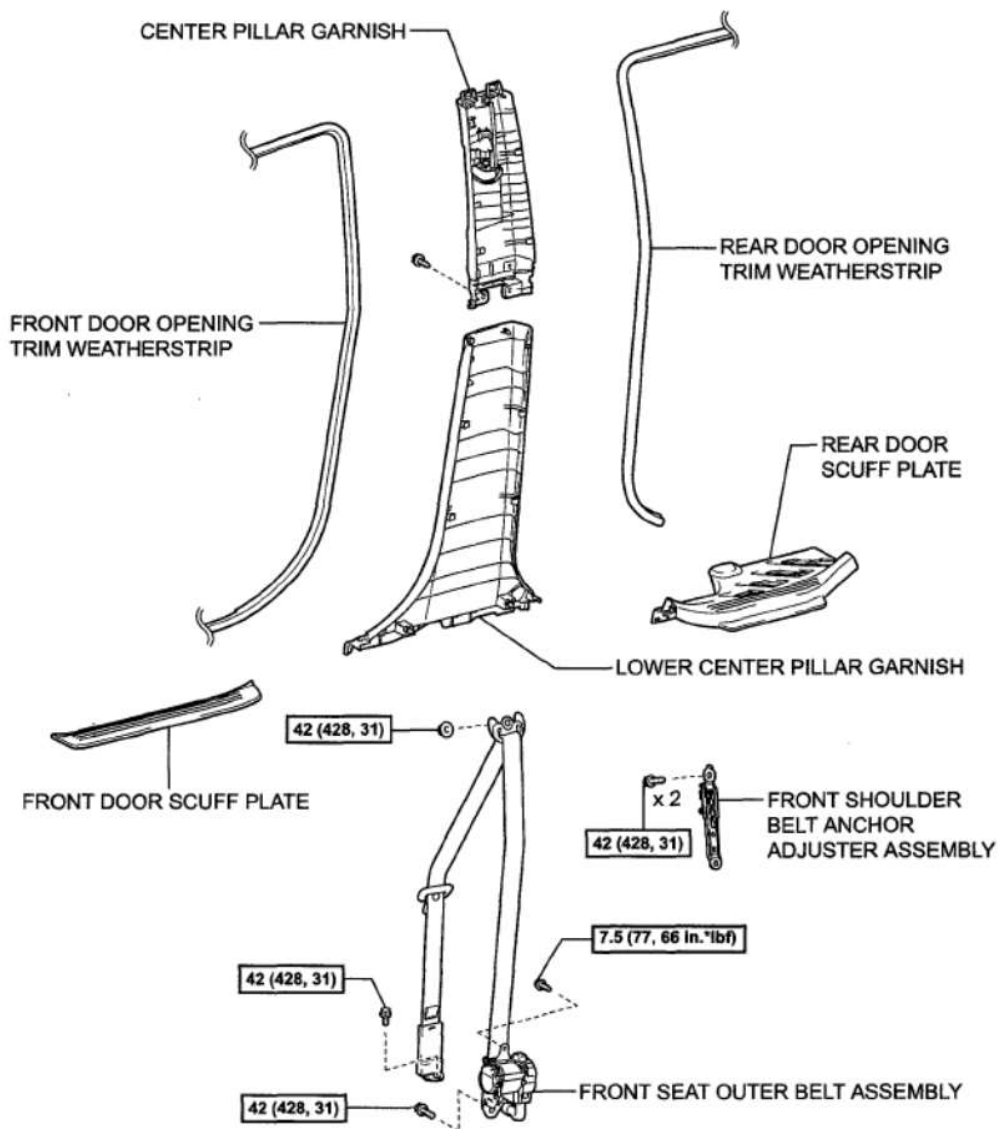
HINT:

Inspect the seat belt assembly before installing it (See INSPECTION).

COMPONENTS

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

P

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Fig. 23: Identifying Front Seat Outer Belt Assembly Components With Torque Specification
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION: Wait for 90 seconds after disconnecting the cable to prevent airbag deployment (See AIRBAG SYSTEM).

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NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

2. **REMOVE FRONT DOOR SCUFF PLATE** (See REMOVAL)
3. **DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP**
4. **REMOVE REAR DOOR SCUFF PLATE** (See REMOVAL)
5. **DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP**
6. **REMOVE LOWER CENTER PILLAR GARNISH** (See REMOVAL)
7. **DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY**
 - a. Remove the bolt and disconnect the floor end of the front seat outer belt assembly.
8. **REMOVE CENTER PILLAR GARNISH** (See REMOVAL)

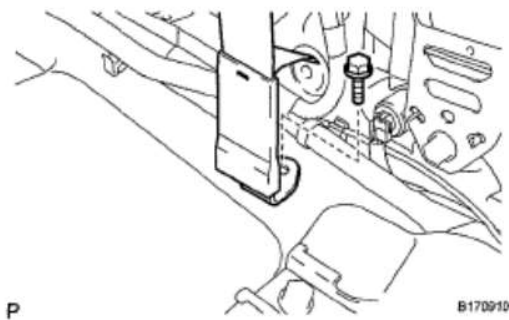


Fig. 24: Identifying Floor End Of Front Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **REMOVE FRONT SEAT OUTER BELT ASSEMBLY**
 - a. Remove the nut and disconnect the shoulder anchor of the front seat outer belt assembly.



Fig. 25: Identifying Shoulder Anchor Of Front Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Using a screwdriver, pull out the locking button in the direction shown by the arrow to release the lock, and disconnect the pretensioner connector as shown in the illustration.

HINT:

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Tape the screwdriver tip before use.

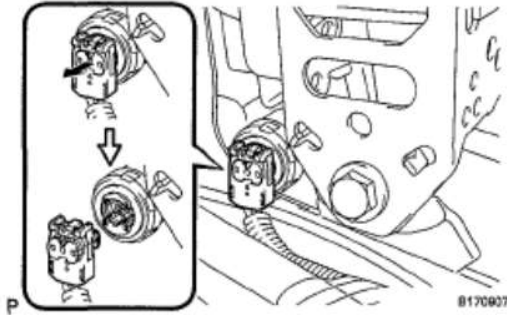


Fig. 26: Disconnecting Pretensioner Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the 2 bolts and front seat outer belt assembly.

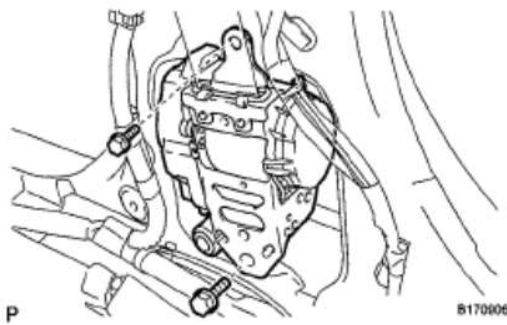


Fig. 27: Identifying Front Seat Outer Belt Assembly Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. REMOVE FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

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

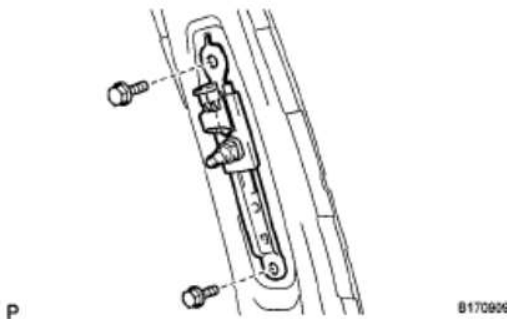


Fig. 28: Identifying Front Shoulder Belt Anchor Adjuster Assembly Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

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1. INSPECT FRONT SEAT OUTER BELT ASSEMBLY

NOTE: Do not disassemble the retractor.

- a. Before installing the outer belt, check the ELR.
 1. When the inclination of the retractor is 15° or less, check that the belt can be pulled from the retractor. When the inclination of the retractor is over 45° , check that the belt locks.

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

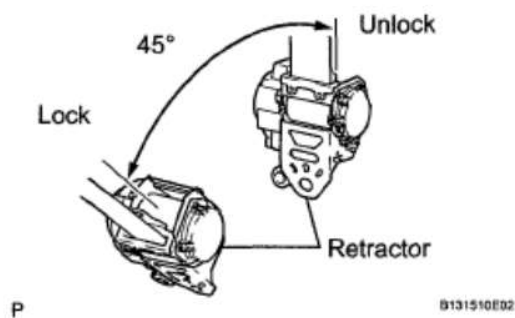


Fig. 29: Inspecting Front Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. INSTALL FRONT SHOULDER BELT ANCHOR ADJUSTER ASSEMBLY

- a. Engage the adjuster positioning hole with the claw and install the front shoulder belt anchor adjuster assembly with the 2 bolts.

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

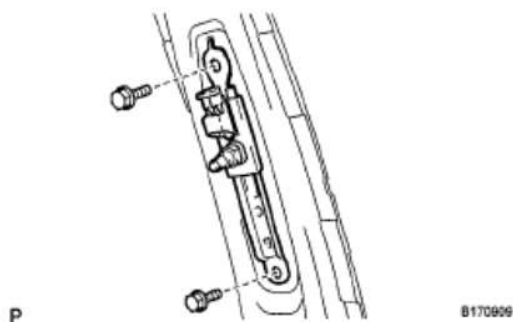


Fig. 30: Identifying Front Shoulder Belt Anchor Adjuster Assembly Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT SEAT OUTER BELT ASSEMBLY

- a. Temporarily install the front seat outer belt assembly with the 2 bolts.

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- b. Fully tighten the bolt < A > first, then the bolt < B > to install the front seat outer belt assembly.

Torque: Bolt < A >

7.5 N*m (77 kgf*cm, 66 in.*lbf)

Bolt < B >

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

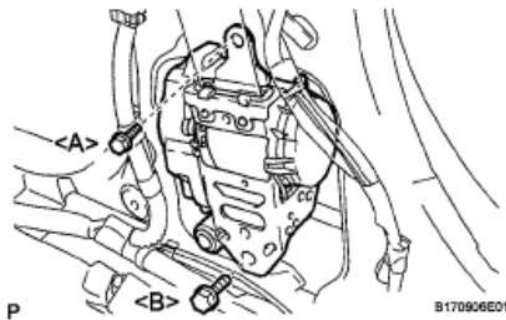


Fig. 31: Identifying Front Seat Outer Belt Assembly With Bolts
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Connect the connector and lock the locking button as shown in the illustration.

NOTE: Securely lock the locking button.

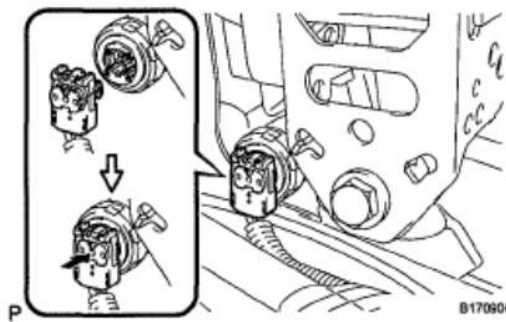


Fig. 32: Connecting Connector
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Connect the shoulder anchor of the front seat outer belt assembly with the nut.

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

3. INSTALL CENTER PILLAR GARNISH (See INSTALLATION)

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Fig. 33: Identifying Front Seat Outer Belt Assembly Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. CONNECT FRONT SEAT OUTER BELT ASSEMBLY

- a. Install the floor end of the front seat outer belt assembly with the bolt.

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

- b. Check if the ELR locks.

NOTE: The check should be performed with the outer belt assembly installed.

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

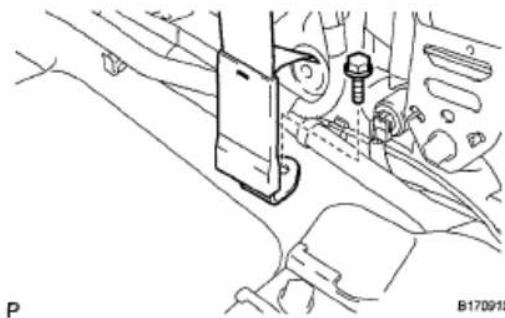


Fig. 34: Identifying Floor End Of Front Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL LOWER CENTER PILLAR GARNISH** (See INSTALLATION)
6. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP** (See INSTALLATION)
7. **INSTALL REAR DOOR SCUFF PLATE** (See INSTALLATION)
8. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP** (See INSTALLATION)
9. **INSTALL FRONT DOOR SCUFF PLATE** (See INSTALLATION)
10. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

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NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

11. INSPECT SRS WARNING LIGHT

(See DIAGNOSIS SYSTEM)

DISPOSAL**HINT:**

When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with a seat belt pretensioner), always deploy the seat belt pretensioner first in accordance with the procedures described below. If any abnormality occurs during deployment of the seat belt pretensioner, contact the SERVICE DEPARTMENT of TOYOTA MOTOR SALES, U.S.A., INC.

1. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN INSTALLED IN VEHICLE)**NOTE:**

- Never dispose of a front seat outer belt assembly with a pretensioner that has not been deployed.
- The seat belt pretensioner produces an exploding sound when it deploys, so perform the operation outdoors where it will not disturb local residents.
- When deploying a front seat outer belt (with a seat belt pretensioner), perform the operation 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 a deployed pretensioner.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt with a deployed pretensioner.
- When deploying the seat belt pretensioner, always use the specified SST (SRS airbag deployment tool). Perform the operation in a place away from electrical interference.
- Be sure to follow the procedure listed below when deploying the seat belt pretensioner.

- a. Check the function of SST.

SST 09082-00700, 09082-00770

CAUTION: When deploying the seat belt pretensioner, always use the specified SST.

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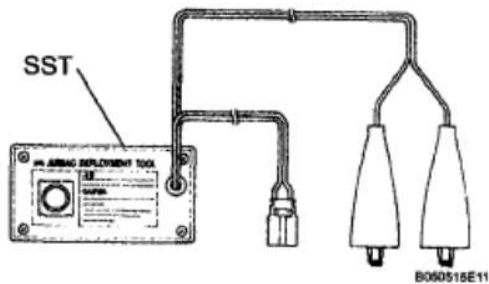


Fig. 35: Checking Function Of SST

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

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

HINT:

At this time, do not connect the yellow connector that will later be connected to the seat belt pretensioner.

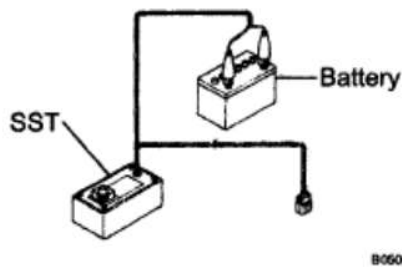


Fig. 36: Connecting Red Clip Of SST To Battery Positive Terminal And Black Clip To Battery Negative Terminal

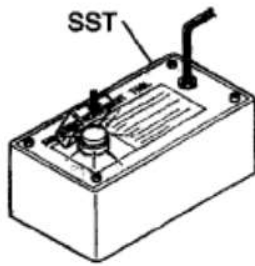
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Press the SST deployment switch and check that the LED of the SST deployment switch lights up.

CAUTION: If the LED is lit when the deployment switch is not pressed, SST may be malfunctioning. In this case, do not use SST.

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Fig. 37: Pressing SST Deployment Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect SST.
 - 1. Connect 2 SST, and then connect them to the front seat outer belt pretensioner.

SST 09082-00700, 09082-00770

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the pretensioner connector.

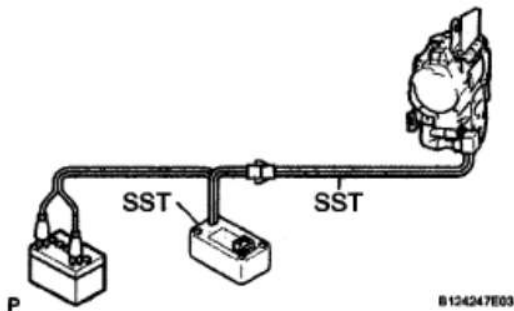


Fig. 38: Connecting SST, And Then Connect Them To Front Seat Outer Belt Pretensioner
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

NOTE: Do not damage the SST wire harness.

- c. Deploy the front seat outer belt pretensioner.
 - 1. Confirm that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.
 - 2. Connect the red clip of SST to the battery positive (+) terminal and the black clip to the negative (-) terminal.

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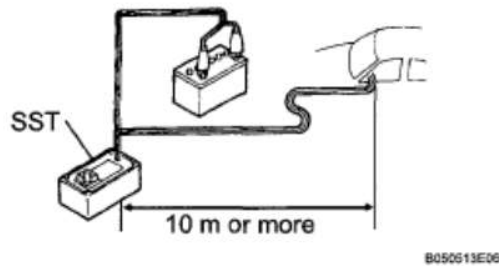


Fig. 39: Moving SST Least 10 M (33 Ft.) Away From Front Of Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Press the SST deployment switch to deploy the front seat outer belt pretensioner.

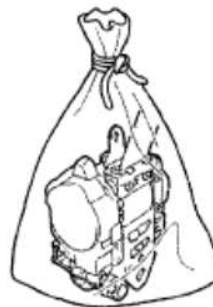
HINT:

The seat belt pretensioner will deploy at the same time as the LED of SST illuminates.

- d. Dispose of the front seat outer belt assembly.
 1. Remove the front seat outer belt assembly and SST.
 2. Place the outer belt in a plastic bag, tie the end tightly, and dispose of it in the same way as other general parts.

CAUTION:

- The outer belt becomes very hot when the front seat outer belt pretensioner is deployed, so leave it untouched for at least 30 minutes after it has been deployed.
- Use gloves and safety glasses when handling an outer belt with a pretensioner that has been deployed.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt assembly with a pretensioner that has been deployed.



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Fig. 40: Placing Front Seat Outer Belt Assembly In Plastic Bag

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

HINT:

When scrapping a vehicle, deploy the front seat outer belt pretensioners, and then scrap the vehicle with the deployed outer belt installed.

2. DISPOSE OF FRONT SEAT OUTER BELT ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)**NOTE:**

- Never dispose of a front seat outer belt assembly with a pretensioner that has not been deployed.
- The seat belt pretensioner produces an exploding sound when it deploys, so perform the operation outdoors where it will not disturb local residents.
- When deploying a front seat outer belt (with a seat belt pretensioner), perform the operation 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 a deployed pretensioner.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt with a deployed pretensioner.
- When disposing of a pretensioner equipped front seat outer belt, never deploy the belt in the customer's vehicle.
- Be sure to follow the procedure listed below when deploying the seat belt pretensioner.

- a. Check the function of SST.

SST 09082-00700, 09082-00770

CAUTION: When deploying the seat belt pretensioner, always use the specified SST.

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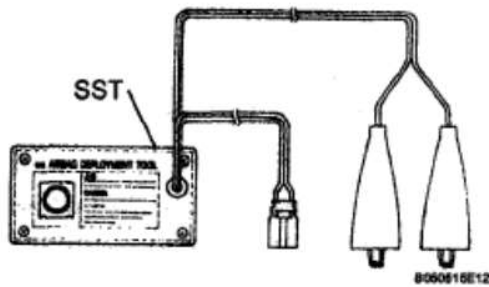


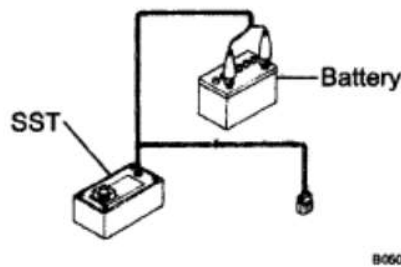
Fig. 41: Checking Function Of SST

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

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

HINT:

At this time, do not connect the yellow connector that will later be connected to the seat belt pretensioner.



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Fig. 42: Connecting Red Clip Of SST To Battery Positive Terminal And Black Clip To Battery Negative Terminal

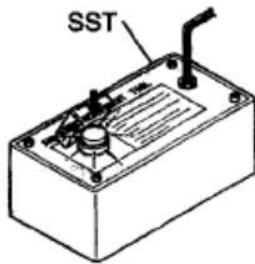
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Press the SST deployment switch and check that the LED of the SST deployment switch lights up.

CAUTION: If the LED is lit when the deployment switch is not pressed, SST may be malfunctioning. In this case, do not use SST.

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Fig. 43: Pressing SST Deployment Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect SST.
1. Connect 2 SST, and then connect them to the front seat outer belt pretensioner.

SST 09082-00700, 09082-00770

NOTE: To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the pretensioner connector.

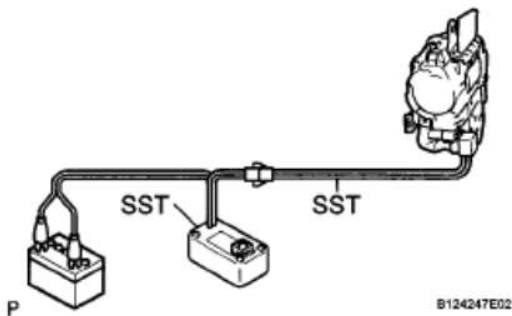


Fig. 44: Connecting SST To Front Seat Outer Belt Pretensioner
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Place the outer belt on the ground and cover it with a tire and wheel assembly.

NOTE: Position the front seat outer belt assembly as shown in the illustration.

3. Position and hold SST at least 10 m (33 ft.) away from the wheel.

NOTE: Do not damage the SST wire harness.

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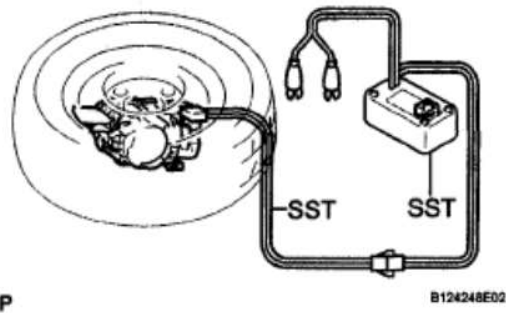


Fig. 45: Positioning Front Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Deploy the front seat outer belt pretensioner.
 1. Check that no one is within a 10 m (33 ft.) radius of the wheel.
 2. Connect the red clip of SST to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
 3. Press the SST deployment switch to deploy the front seat outer belt pretensioner.

HINT:

The seat belt pretensioner will deploy at the same time as the LED of SST illuminates.

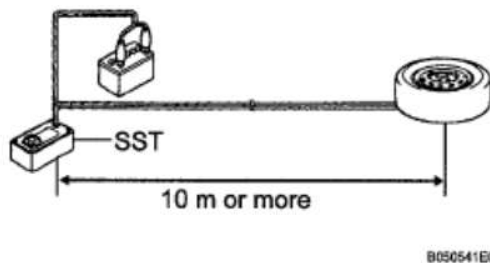


Fig. 46: Pressing SST Deployment Switch To Deploy Front Seat Outer Belt Pretensioner
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Dispose of the front seat outer belt assembly.
 1. Remove the wheel and SST.
 2. Place the outer belt in a plastic bag, tie the end tightly, and dispose of it in the same way as other general parts.

CAUTION:

- The outer belt becomes very hot when the front seat outer belt pretensioner is deployed, so leave it untouched for at least 30 minutes after it has been deployed.
- Use gloves and safety glasses when handling an

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outer belt with a pretensioner that has been deployed.

- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt assembly with a pretensioner that has been deployed.

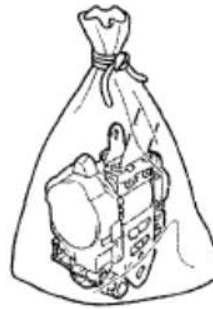


Fig. 47: Placing Front Seat Outer Belt Assembly In Plastic Bag

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

HINT:

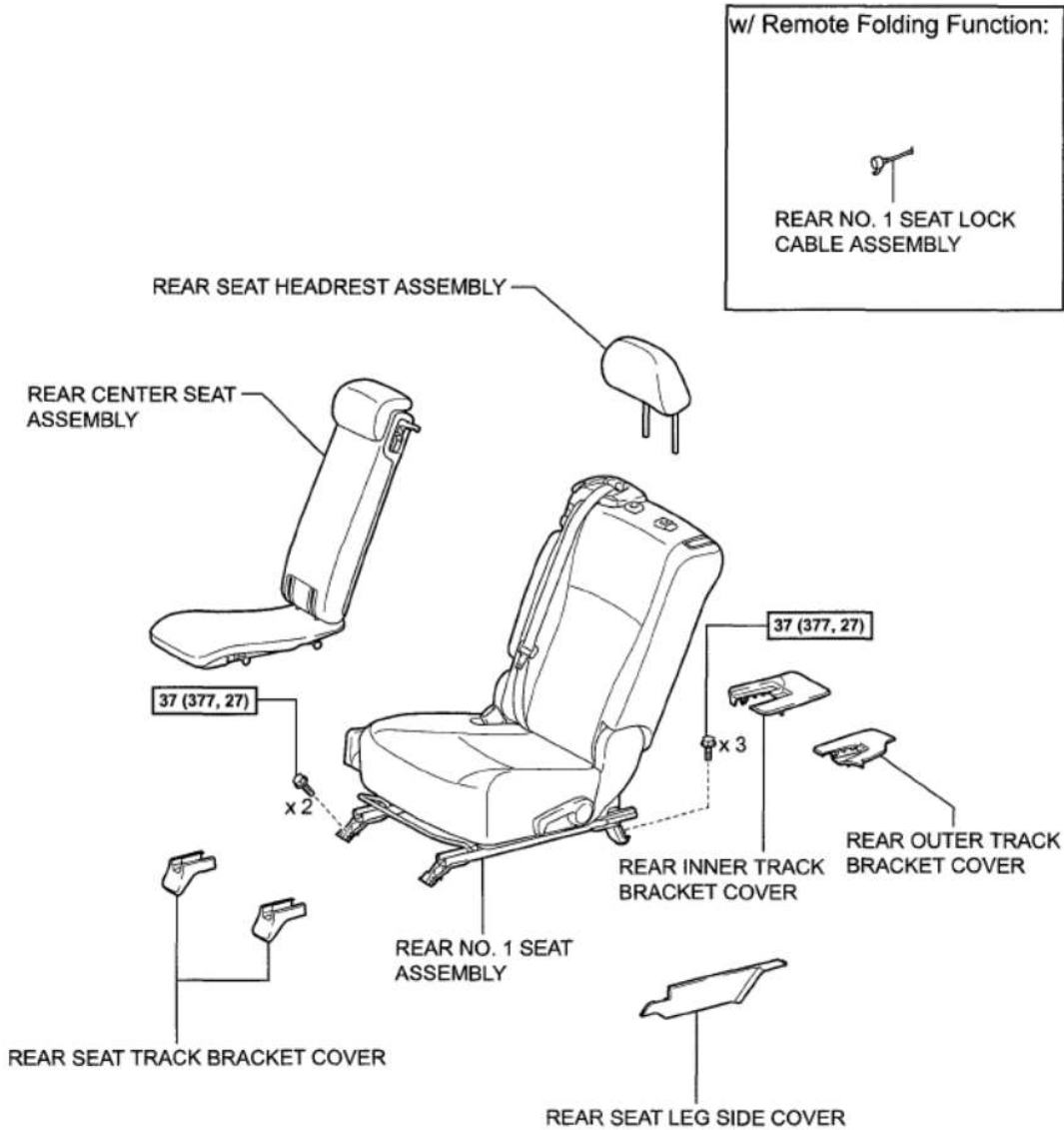
When scrapping a vehicle, deploy the front seat outer belt pretensioners, and then scrap the vehicle with the deployed outer belt installed.

REAR NO. 1 SEAT INNER BELT ASSEMBLY (FOR LH SIDE)

COMPONENTS

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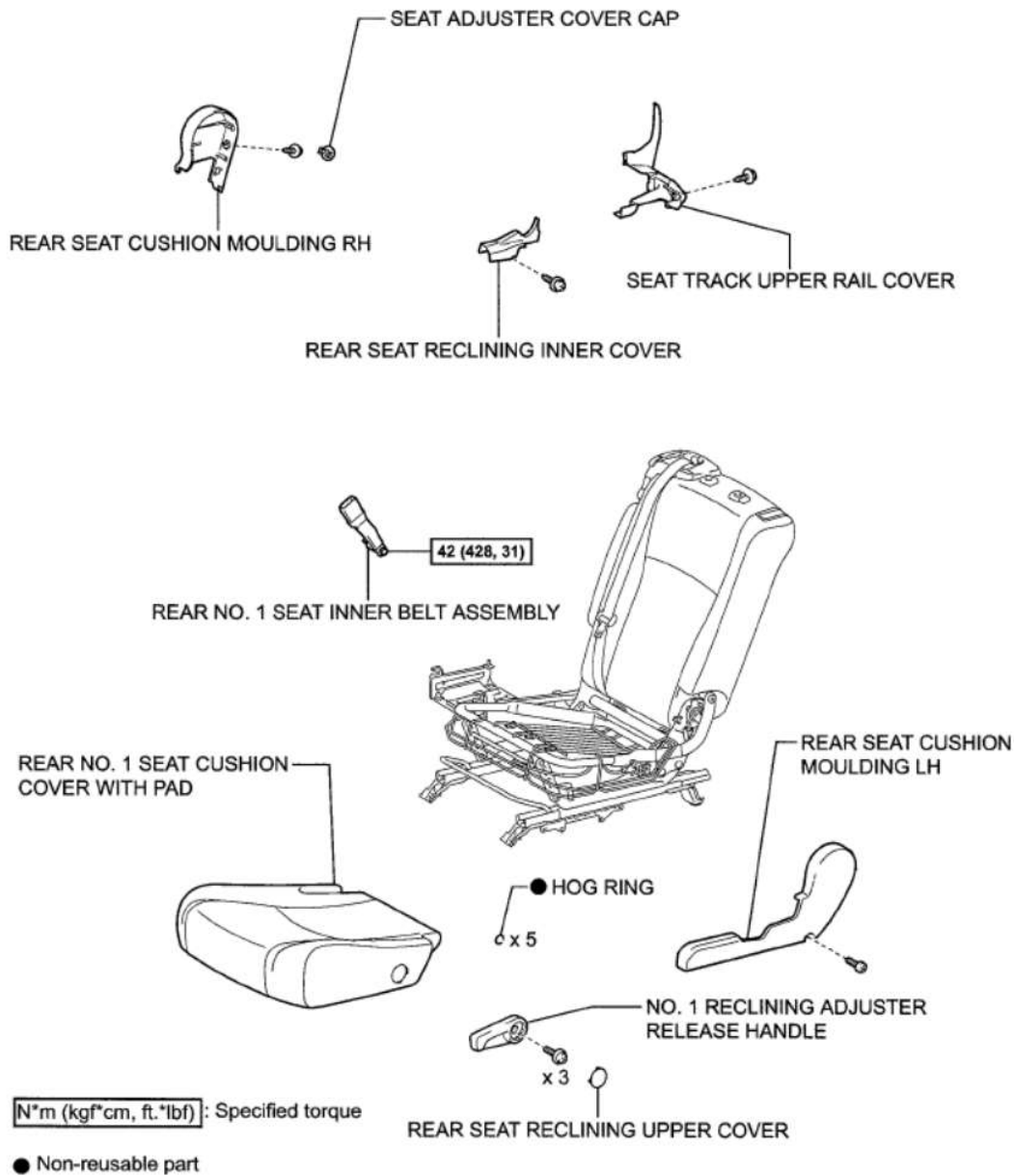
[N*m (kgf*cm, ft.*lbf)]: Specified torque

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Fig. 48: Identifying Rear No. 1 Seat Inner Belt Assembly (LH Side) Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 49: Identifying Rear No. 1 Seat Inner Belt Assembly (LH Side) Components With Torque Specification (2 Of 2)

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

REMOVAL

1. REMOVE REAR CENTER SEAT ASSEMBLY
2. REMOVE REAR SEAT HEADREST ASSEMBLY (See REMOVAL)
3. REMOVE REAR SEAT TRACK BRACKET COVER (See REMOVAL)
4. REMOVE REAR OUTER TRACK BRACKET COVER (See REMOVAL)

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5. **REMOVE REAR INNER TRACK BRACKET COVER** (See **REMOVAL**)
6. **REMOVE REAR SEAT LEG SIDE COVER** (See **REMOVAL**)
7. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY** (w/ Remote Folding Function) (See **REMOVAL**)
8. **REMOVE REAR NO. 1 SEAT ASSEMBLY** (See **DISASSEMBLY**)
9. **REMOVE REAR SEAT RECLINING UPPER COVER** (See **DISASSEMBLY**)
10. **REMOVE NO. 1 RECLINING ADJUSTER RELEASE HANDLE** (See **DISASSEMBLY**)
11. **REMOVE REAR SEAT CUSHION MOULDING LH** (See **DISASSEMBLY**)
12. **REMOVE SEAT ADJUSTER COVER CAP** (See **DISASSEMBLY**)
13. **REMOVE REAR SEAT CUSHION MOULDING RH** (See **DISASSEMBLY**)
14. **REMOVE REAR NO. 1 SEAT CUSHION COVER WITH PAD** (See **DISASSEMBLY**)
15. **REMOVE SEAT TRACK UPPER RAIL COVER** (See **DISASSEMBLY**)
16. **REMOVE REAR SEAT RECLINING INNER COVER** (See **DISASSEMBLY**)
17. **REMOVE REAR NO. 1 SEAT INNER BELT ASSEMBLY**
 - a. Remove the bolt and the rear No. 1 seat inner belt assembly.

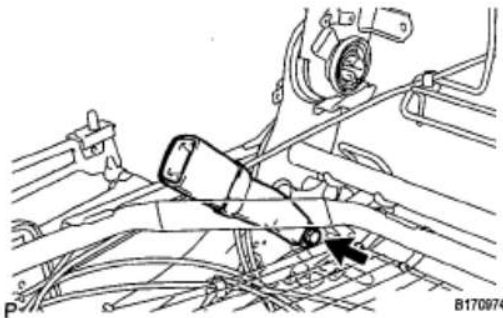


Fig. 50: Locating Rear No. 1 Seat Inner Belt Assembly Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL REAR NO. 1 SEAT INNER BELT ASSEMBLY**
 - a. Install the rear No. 1 seat inner belt assembly with the bolt.

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

2. **INSTALL REAR SEAT RECLINING INNER COVER** (See **REASSEMBLY**)
3. **INSTALL SEAT TRACK UPPER RAIL COVER** (See **REASSEMBLY**)

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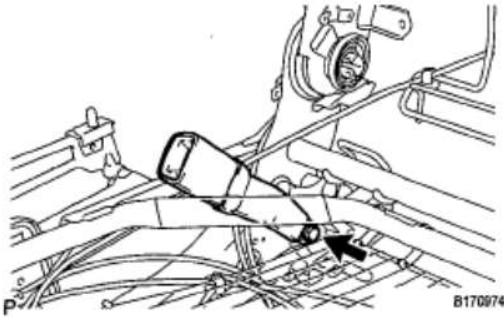


Fig. 51: Locating Rear No. 1 Seat Inner Belt Assembly Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

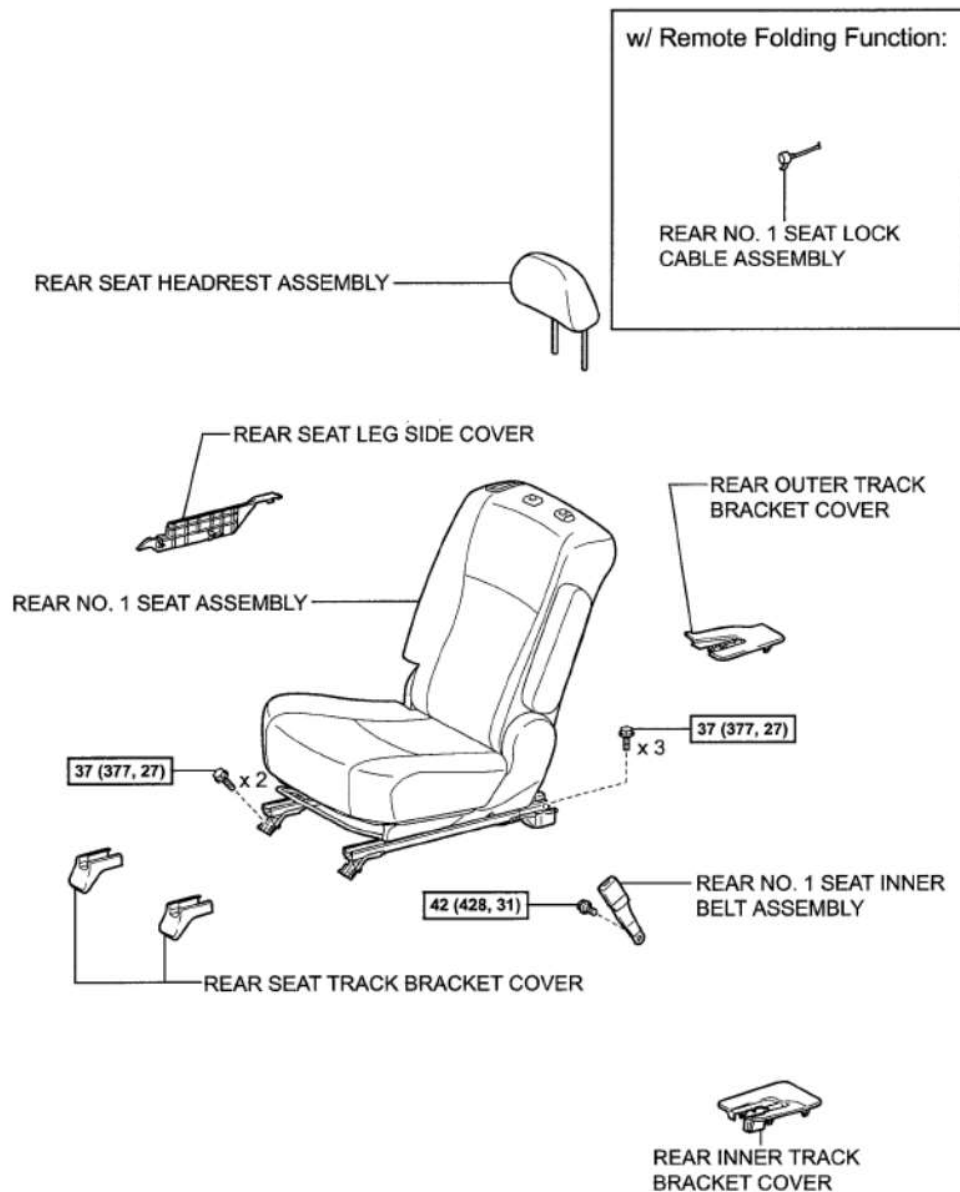
4. **INSTALL REAR NO. 1 SEAT CUSHION COVER WITH PAD** (See REASSEMBLY)
5. **INSTALL REAR SEAT CUSHION MOULDING RH** (See REASSEMBLY)
6. **INSTALL SEAT ADJUSTER COVER CAP** (See REASSEMBLY)
7. **INSTALL REAR SEAT CUSHION MOULDING LH** (See REASSEMBLY)
8. **INSTALL NO. 1 RECLINING ADJUSTER RELEASE HANDLE** (See INSTALLATION)
9. **INSTALL REAR SEAT RECLINING UPPER COVER** (See INSTALLATION)
10. **INSTALL REAR NO. 1 SEAT ASSEMBLY** (See INSTALLATION)
11. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See INSTALLATION)
12. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK** (See INSTALLATION)
13. **INSTALL REAR SEAT LEG SIDE COVER** (See INSTALLATION)
14. **INSTALL REAR INNER TRACK BRACKET COVER** (See INSTALLATION)
15. **INSTALL REAR OUTER TRACK BRACKET COVER** (See INSTALLATION)
16. **INSTALL REAR SEAT TRACK BRACKET COVER** (See INSTALLATION)
17. **INSTALL REAR SEAT HEADREST ASSEMBLY** (See INSTALLATION)
18. **INSTALL REAR CENTER SEAT ASSEMBLY**

REAR NO. 1 SEAT INNER BELT ASSEMBLY (FOR RH SIDE)

COMPONENTS

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

P

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Fig. 52: Identifying Rear No. 1 Seat Inner Belt Assembly (RH Side) Components With Torque Specification

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

REMOVAL

1. REMOVE REAR SEAT HEADREST ASSEMBLY (See REMOVAL)
2. REMOVE REAR SEAT TRACK BRACKET COVER (See REMOVAL)
3. REMOVE REAR OUTER TRACK BRACKET COVER (See REMOVAL)

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4. **REMOVE REAR INNER TRACK BRACKET COVER** (See **REMOVAL**)
5. **REMOVE REAR SEAT LEG SIDE COVER** (See **REMOVAL**)
6. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
7. **REMOVE REAR NO. 1 SEAT ASSEMBLY** (See **DISASSEMBLY**)
8. **REMOVE REAR NO. 1 SEAT INNER BELT ASSEMBLY**
 - a. Remove the bolt and the rear No. 1 seat inner belt assembly.

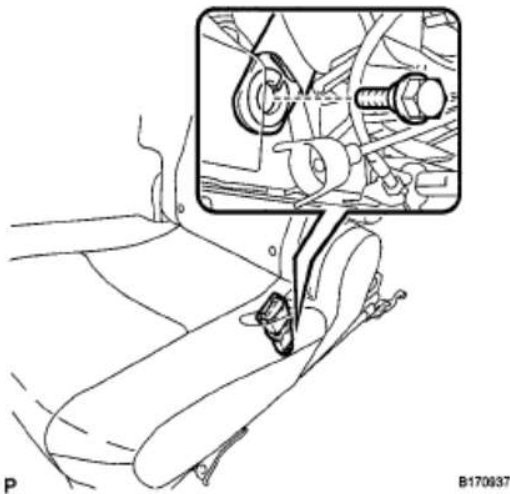


Fig. 53: Identifying Rear No. 1 Seat Inner Belt Assembly Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL REAR NO. 1 SEAT INNER BELT ASSEMBLY**
 - a. Install the rear No. 1 seat inner belt assembly with the bolt.

Torque: 42 N*m (428 kgf*cm, 31 ft.*lbf)
2. **INSTALL REAR NO. 1 SEAT ASSEMBLY** (See **INSTALLATION**)
3. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **INSTALLATION**)
4. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK** (See **INSTALLATION**)
5. **INSTALL REAR SEAT LEG SIDE COVER** (See **INSTALLATION**)

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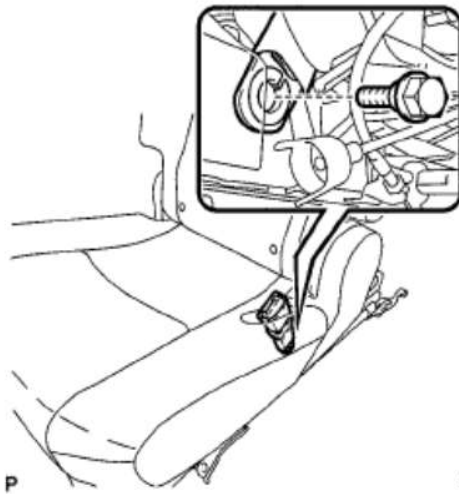


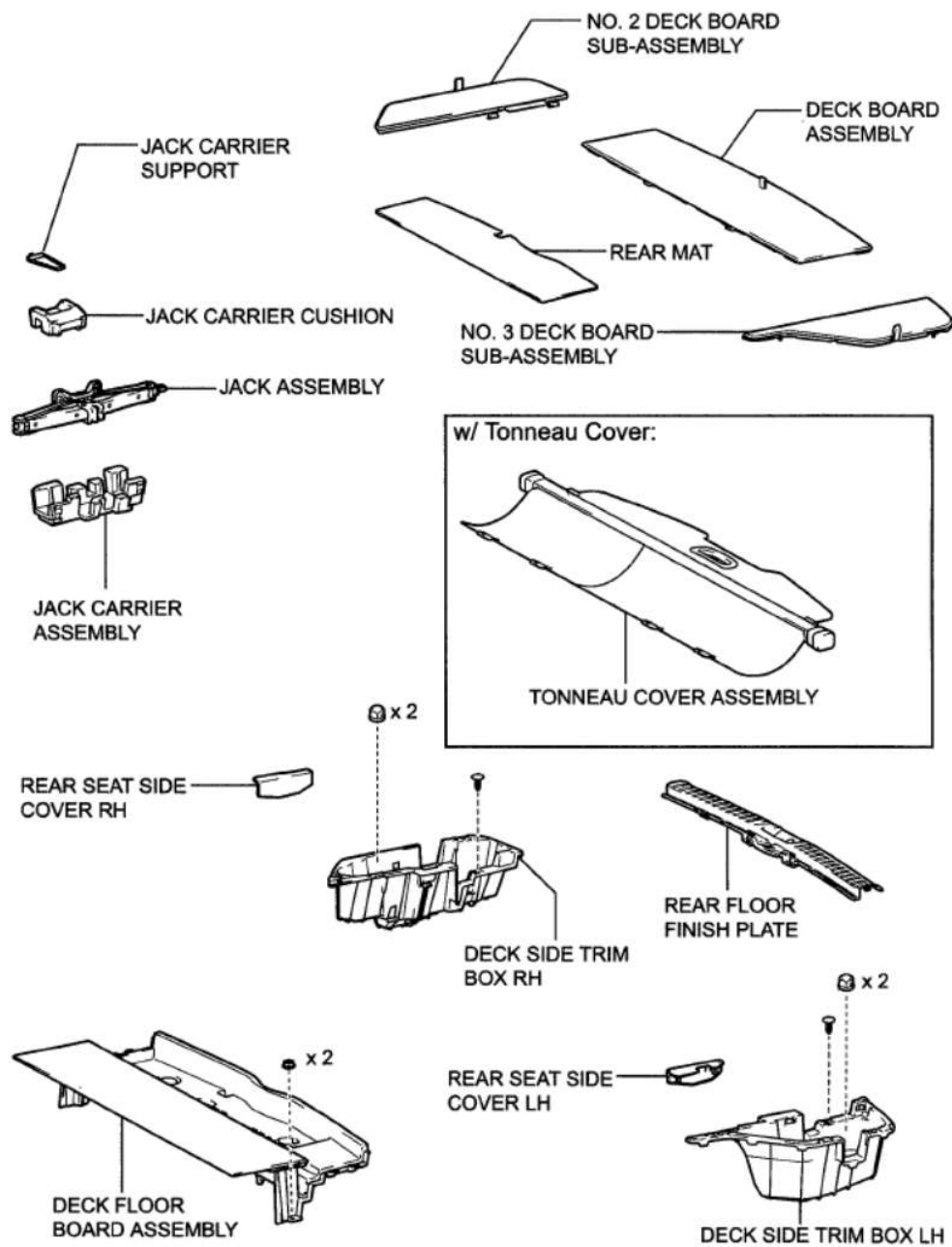
Fig. 54: Identifying Rear No. 1 Seat Inner Belt Assembly Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL REAR INNER TRACK BRACKET COVER** (See INSTALLATION)
7. **INSTALL REAR OUTER TRACK BRACKET COVER** (See INSTALLATION)
8. **INSTALL REAR SEAT TRACK BRACKET COVER** (See INSTALLATION)
9. **INSTALL REAR SEAT HEADREST ASSEMBLY** (See INSTALLATION)

REAR NO. 2 SEAT INNER BELT ASSEMBLY**COMPONENTS**

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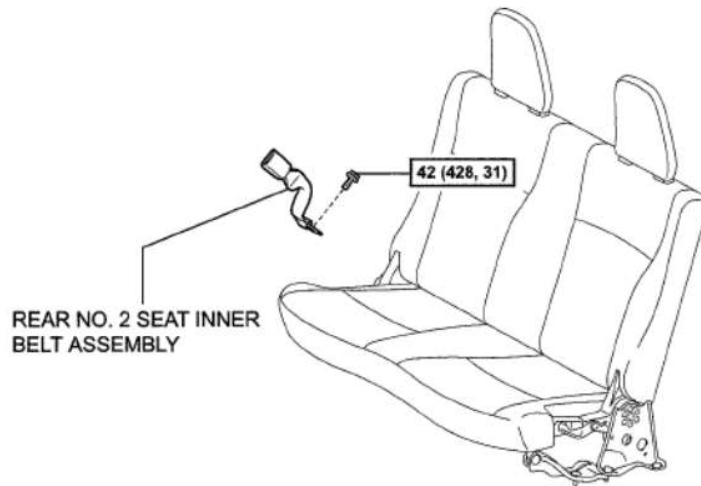
P

B170872E01

Fig. 55: Identifying Rear No. 2 Seat Inner Belt Assembly Components With Torque Specification (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

P

8170879E01

Fig. 56: Identifying Rear No. 2 Seat Inner Belt Assembly Components With Torque Specification (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. REMOVE DECK BOARD ASSEMBLY (See REMOVAL)
2. REMOVE NO. 3 DECK BOARD SUB-ASSEMBLY (See REMOVAL)
3. REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY (See REMOVAL)
4. REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover) (See REMOVAL)
5. REMOVE REAR SEAT SIDE COVER LH (See REMOVAL)
6. REMOVE DECK SIDE TRIM BOX LH (See REMOVAL)
7. REMOVE REAR SEAT SIDE COVER RH (See REMOVAL)
8. REMOVE JACK CARRIER SUPPORT
9. REMOVE JACK CARRIER CUSHION (See REMOVAL)
10. REMOVE JACK ASSEMBLY (See REMOVAL)
11. REMOVE JACK CARRIER ASSEMBLY (See REMOVAL)
12. REMOVE DECK SIDE TRIM BOX RH (See REMOVAL)
13. REMOVE REAR MAT (See REMOVAL)
14. REMOVE DECK FLOOR BOARD ASSEMBLY (See REMOVAL)
15. REMOVE REAR NO. 2 SEAT INNER BELT ASSEMBLY
 - a. Remove the bolt and rear No. 2 seat inner belt assembly.

HINT:

Use the same procedure for the RH side and LH side.

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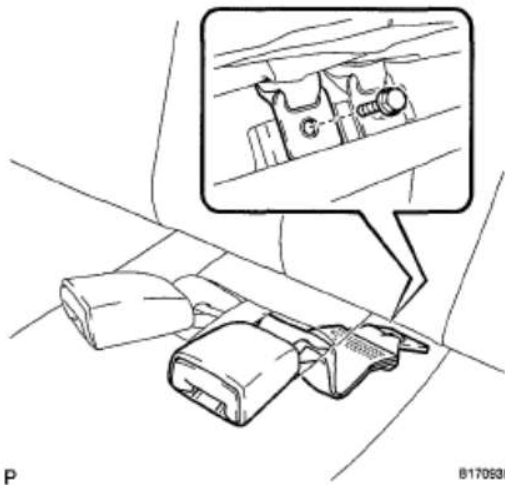


Fig. 57: Identifying Rear No. 2 Seat Inner Belt Assembly Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION**1. INSTALL REAR NO. 2 SEAT INNER BELT ASSEMBLY**

- a. Install the rear No. 2 seat inner belt assembly with the bolt.

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

NOTE: Do not allow the anchor part of the rear No. 2 seat inner belt assembly to overlap the protruding part of the rear No. 2 seat bracket.

HINT:

Use the same procedure for the RH side and LH side.

- 2. INSTALL REAR MAT (See INSTALLATION)**
- 3. INSTALL DECK FLOOR BOARD ASSEMBLY (See INSTALLATION)**

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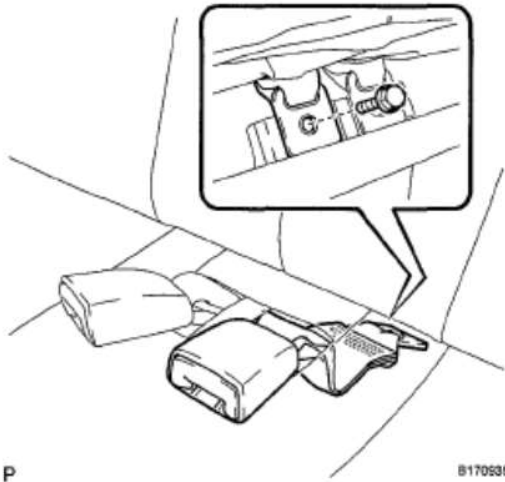


Fig. 58: Identifying Rear No. 2 Seat Inner Belt Assembly Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

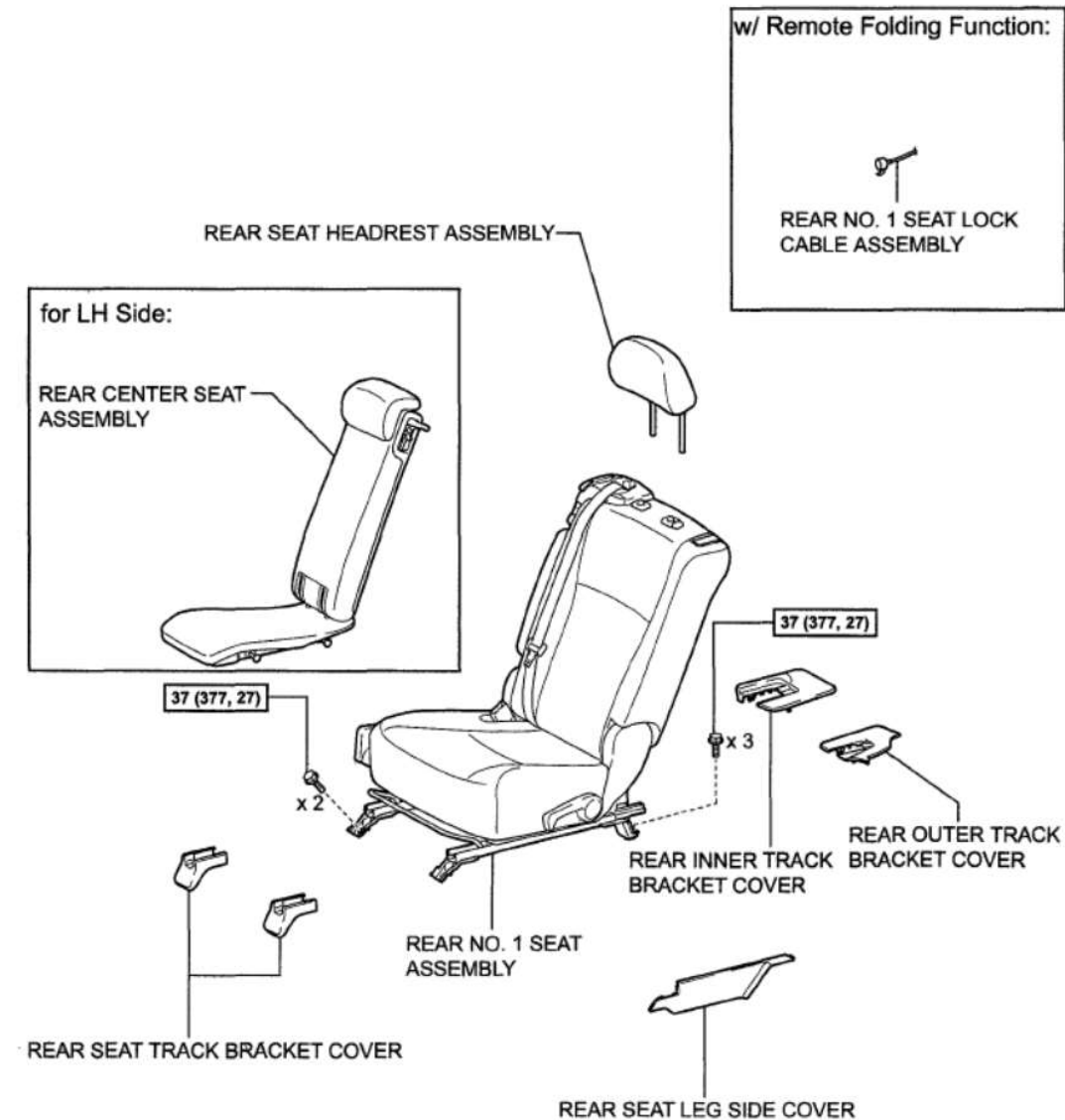
4. INSTALL DECK SIDE TRIM BOX LH (See INSTALLATION)
5. INSTALL REAR SEAT SIDE COVER LH (See INSTALLATION)
6. INSTALL DECK SIDE TRIM BOX RH (See INSTALLATION)
7. INSTALL JACK CARRIER ASSEMBLY (See INSTALLATION)
8. INSTALL JACK ASSEMBLY (See INSTALLATION)
9. INSTALL JACK CARRIER CUSHION (See INSTALLATION)
10. INSTALL JACK CARRIER SUPPORT
11. INSTALL REAR SEAT SIDE COVER RH (See INSTALLATION)
12. INSTALL TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)
13. INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY (See INSTALLATION)
14. INSTALL NO. 3 DECK BOARD SUB-ASSEMBLY (See INSTALLATION)
15. INSTALL DECK BOARD ASSEMBLY (See INSTALLATION)

REAR NO. 1 SEAT OUTER BELT ASSEMBLY

COMPONENTS

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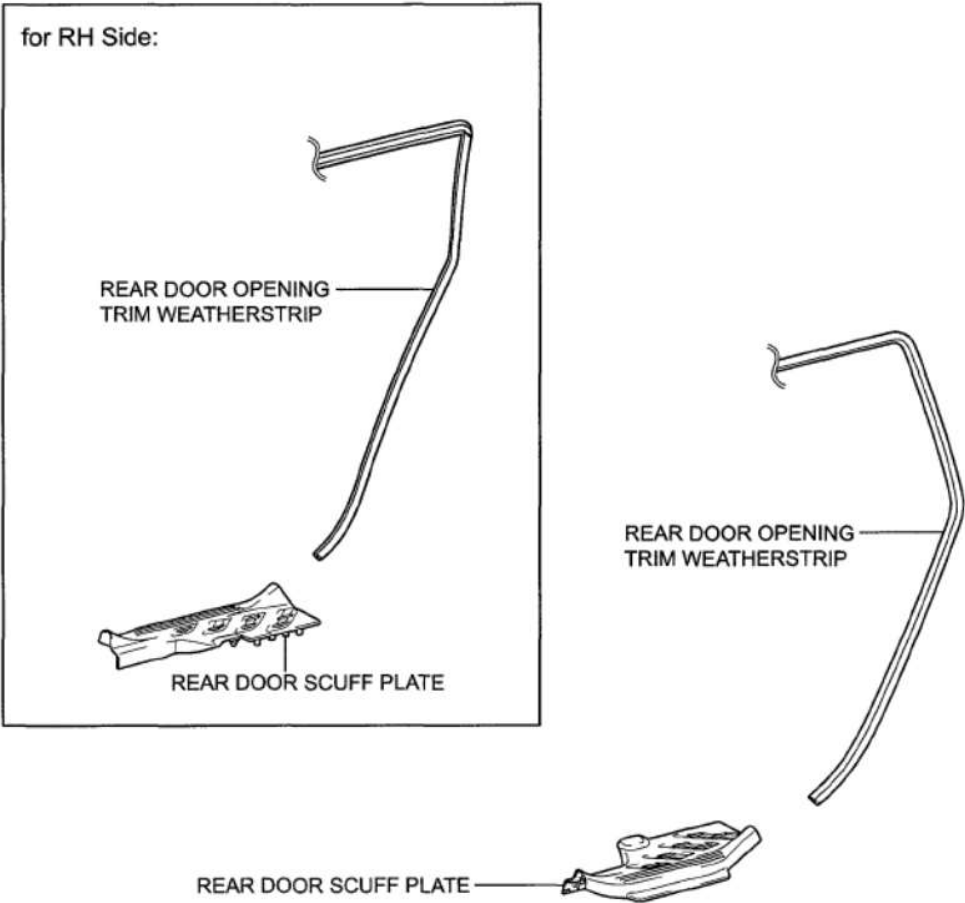
N·m (kgf·cm, ft.·lbf): Specified torque

P 817288E03

Fig. 59: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (1 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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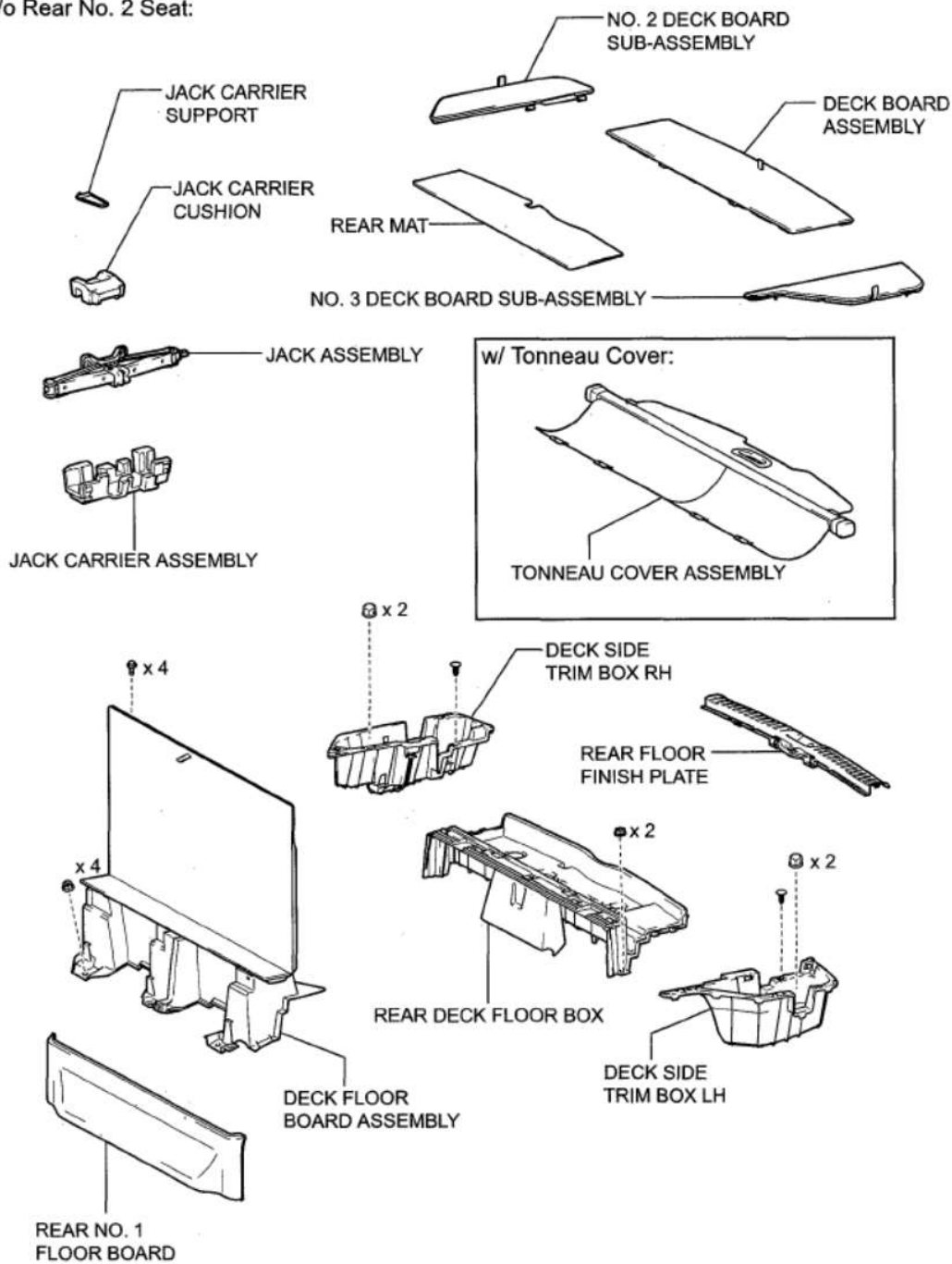
P B170925E01

Fig. 60: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (2 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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w/o Rear No. 2 Seat:



P

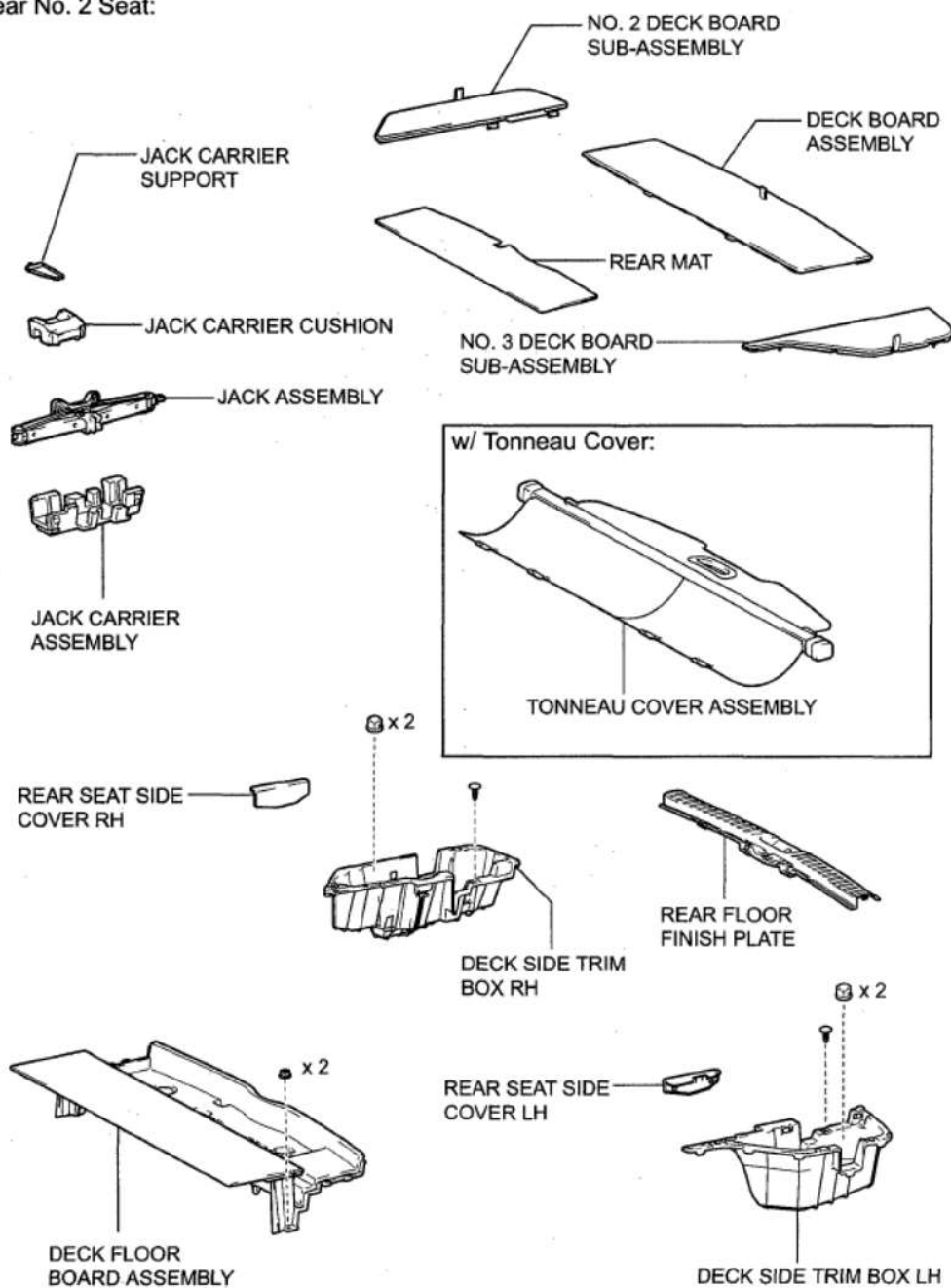
8178663E01

Fig. 61: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (3 Of 8)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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w/ Rear No. 2 Seat:



P

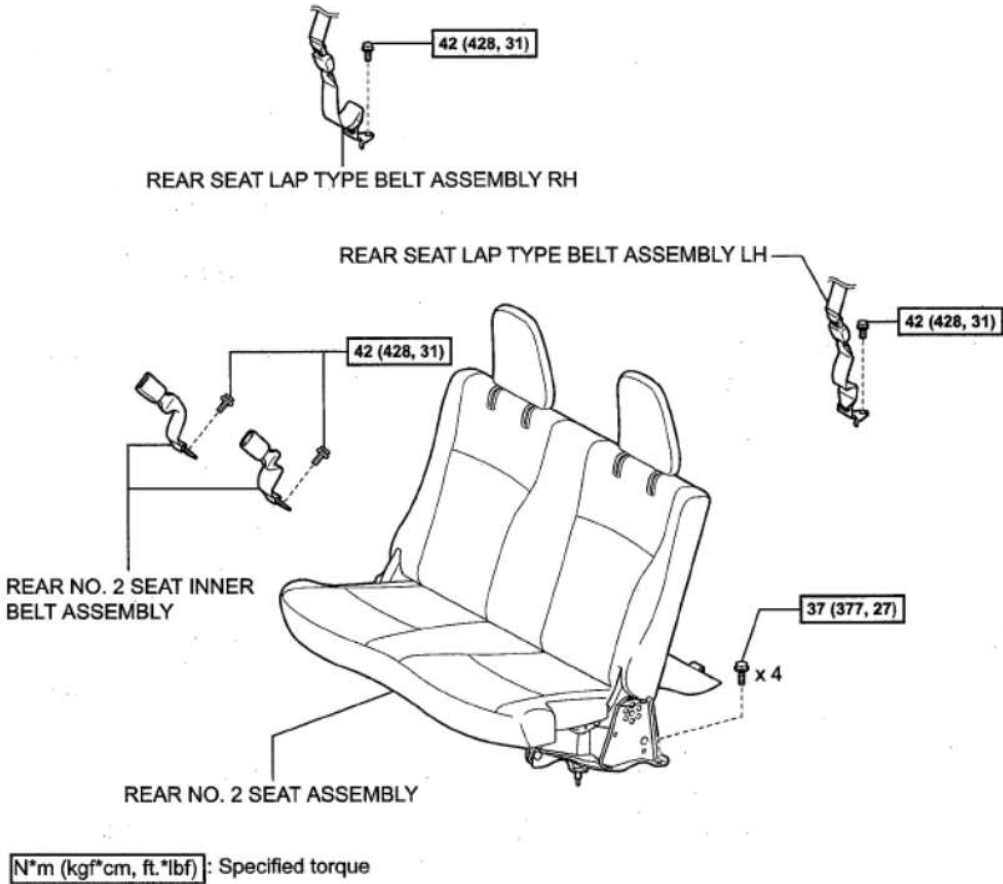
B178060E01

Fig. 62: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (4 Of 8)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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w/ Rear No. 2 Seat:



P B170871E01

Fig. 63: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (5 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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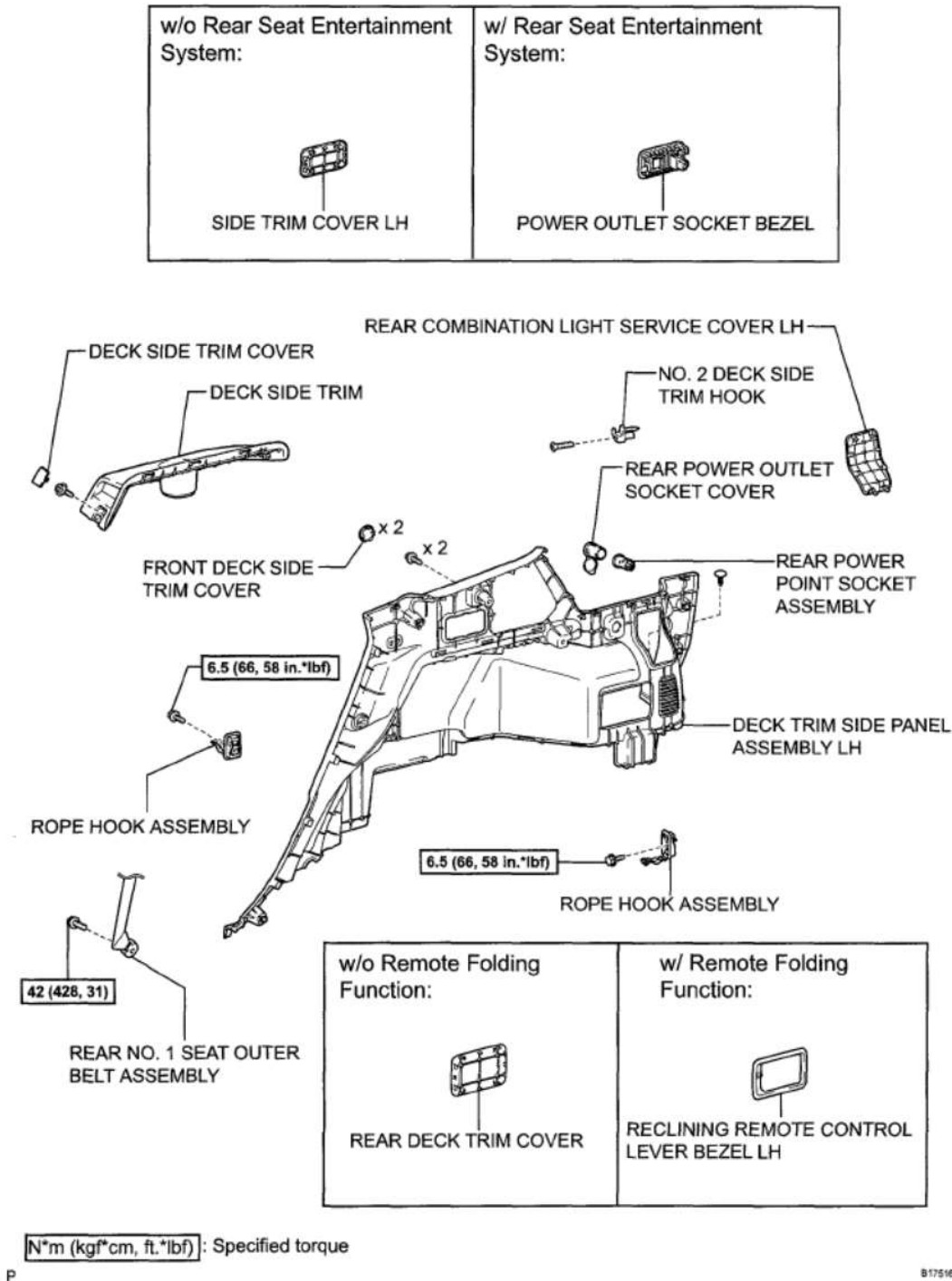
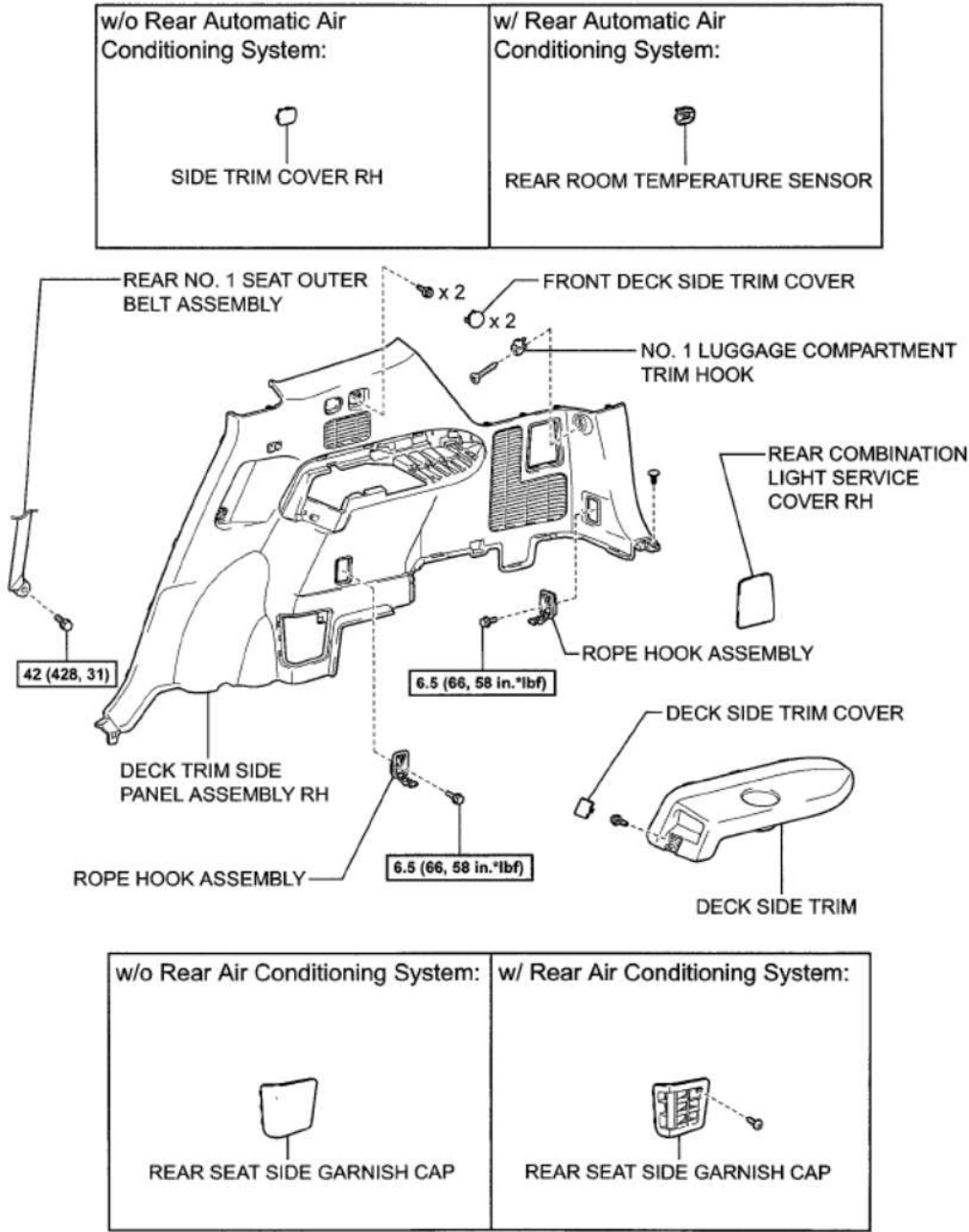


Fig. 64: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (6 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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for RH Side:



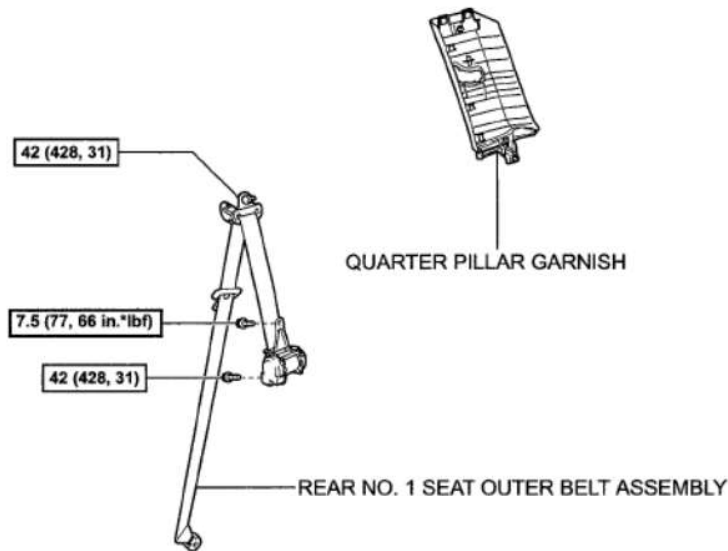
[N*m (kgf*cm, ft.*lbf)]: Specified torque

P 8170941E06

Fig. 65: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (7 Of 8)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

P

B170949E01

Fig. 66: Identifying Rear No. 1 Seat Outer Belt Assembly Components With Torque Specification (8 Of 8)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. REMOVE REAR CENTER SEAT ASSEMBLY (for LH Side)
2. REMOVE REAR SEAT HEADREST ASSEMBLY (See REMOVAL)
3. REMOVE REAR SEAT TRACK BRACKET COVER (See REMOVAL)
4. REMOVE REAR OUTER TRACK BRACKET COVER (See REMOVAL)
5. REMOVE REAR INNER TRACK BRACKET COVER (See REMOVAL)
6. REMOVE REAR SEAT LEG SIDE COVER (See REMOVAL)
7. DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function) (See REMOVAL)
8. REMOVE REAR NO. 1 SEAT ASSEMBLY (See DISASSEMBLY)
9. REMOVE REAR DOOR SCUFF PLATE (See REMOVAL)
10. DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP
11. REMOVE DECK BOARD ASSEMBLY (See REMOVAL)
12. REMOVE NO. 3 DECK BOARD SUB-ASSEMBLY (See REMOVAL)
13. REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY (See REMOVAL)
14. REMOVE TONNEAU COVER ASSEMBLY (w/Tonneau Cover) (See REMOVAL)
15. REMOVE REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat) (See REMOVAL)
16. REMOVE REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat) (See REMOVAL)
17. REMOVE DECK SIDE TRIM BOX LH (See REMOVAL)

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18. **REMOVE REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat) (See REMOVAL)**
19. **REMOVE JACK CARRIER SUPPORT**
20. **REMOVE JACK CARRIER CUSHION (See REMOVAL)**
21. **REMOVE JACK ASSEMBLY (See REMOVAL)**
22. **REMOVE JACK CARRIER ASSEMBLY (See REMOVAL)**
23. **REMOVE DECK SIDE TRIM BOX RH (See REMOVAL)**
24. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat) (See REMOVAL)**
25. **REMOVE REAR MAT (See REMOVAL)**
26. **REMOVE DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat) (See REMOVAL)**
27. **REMOVE REAR DECK FLOOR BOX (w/o Rear No. 2 Seat) (See REMOVAL)**
28. **REMOVE REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat) (See REMOVAL)**
29. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat) (See REMOVAL)**
30. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat) (See REMOVAL)**
31. **REMOVE REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat) (See DISASSEMBLY)**
32. **REMOVE REAR FLOOR FINISH PLATE (See REMOVAL)**
33. **REMOVE REAR SEAT SIDE GARNISH CAP (for RH Side without Rear Air Conditioning System) (See REMOVAL)**
34. **REMOVE REAR SEAT SIDE GARNISH CAP (for RH Side with Rear Air Conditioning System) (See REMOVAL)**
35. **REMOVE DECK SIDE TRIM COVER (See REMOVAL)**
36. **REMOVE DECK SIDE TRIM (See REMOVAL)**
37. **REMOVE SIDE TRIM COVER LH (for LH Side without Rear Seat Entertainment System) (See REMOVAL)**
38. **REMOVE POWER OUTLET SOCKET BEZEL (for LH Side with Rear Seat Entertainment System) (See REMOVAL)**
39. **REMOVE SIDE TRIM COVER RH (for RH Side without Rear Automatic Air Conditioning System) (See REMOVAL)**
40. **REMOVE REAR ROOM TEMPERATURE SENSOR (for RH Side with Rear Automatic Air Conditioning System) (See ROOM TEMPERATURE SENSOR (FOR REAR))**
41. **REMOVE REAR COMBINATION LIGHT SERVICE COVER LH (for LH Side) (See REMOVAL)**
42. **REMOVE REAR COMBINATION LIGHT SERVICE COVER RH (for RH Side) (See REMOVAL)**
43. **REMOVE REAR POWER POINT SOCKET ASSEMBLY (for LH Side) (See REAR POWER OUTLET SOCKET)**
44. **REMOVE REAR POWER OUTLET SOCKET COVER (for LH Side) (See INSTALLATION)**
45. **REMOVE REAR DECK TRIM COVER (for LH Side without Remote Folding Function) (See REMOVAL)**

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46. **REMOVE RECLINING REMOTE CONTROL LEVER BEZEL LH (for LH Side with Remote Folding Function)** (See REMOVAL)
47. **REMOVE ROPE HOOK ASSEMBLY** (See REMOVAL)
48. **REMOVE NO. 2 DECK SIDE TRIM HOOK (for LH Side)** (See REMOVAL)
49. **REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (for RH Side)** (See REMOVAL)
50. **REMOVE FRONT DECK SIDE TRIM COVER** (See REMOVAL)
51. **DISCONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY**
 - a. Remove the bolt and disconnect the floor end of the rear No. 1 seat outer belt assembly.
52. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side)** (See REMOVAL)
53. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side)** (See REMOVAL)

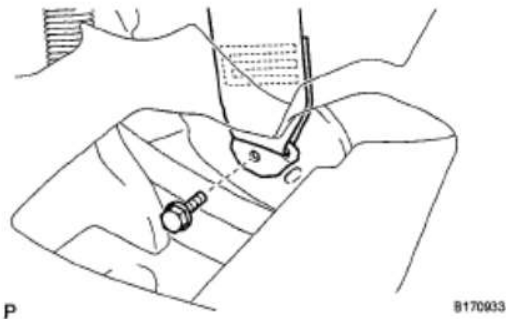


Fig. 67: Identifying Floor End Of Rear No. 1 Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

54. **REMOVE QUARTER PILLAR GARNISH** (See REMOVAL)
55. **REMOVE REAR NO. 1 SEAT OUTER BELT ASSEMBLY**
 - a. Remove the bolt and disconnect the shoulder anchor of the rear No. 1 seat outer belt assembly.

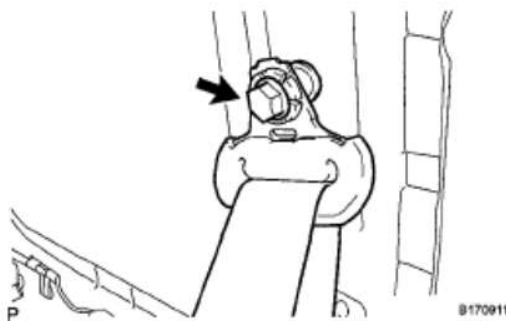


Fig. 68: Identifying Shoulder Anchor Of Rear No. 1 Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the 2 bolts and rear No. 1 seat outer belt assembly.

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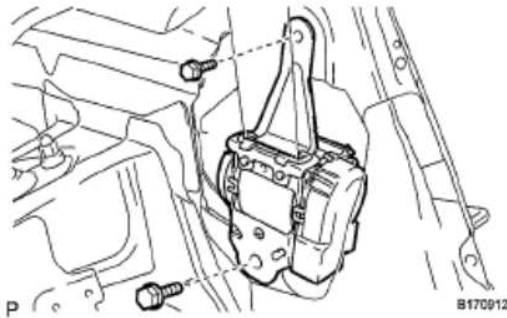


Fig. 69: Identifying Rear No. 1 Seat Outer Belt Assembly Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. INSTALL REAR NO. 1 SEAT OUTER BELT ASSEMBLY

- a. Install the rear No. 1 seat outer belt assembly with the 2 bolts.

Torque: Bolt < A >

7.5 N*m (77 kgf*cm, 66 in.*lbf)

Bolt < B >

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

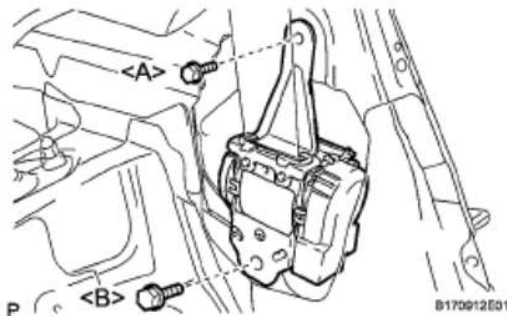


Fig. 70: Identifying Rear No. 1 Seat Outer Belt Assembly With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect the shoulder anchor of the rear No. 1 seat outer belt assembly with the bolt.

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

- c. Check if the ELR locks.

NOTE: The check should be performed with outer belt assembly installed.

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

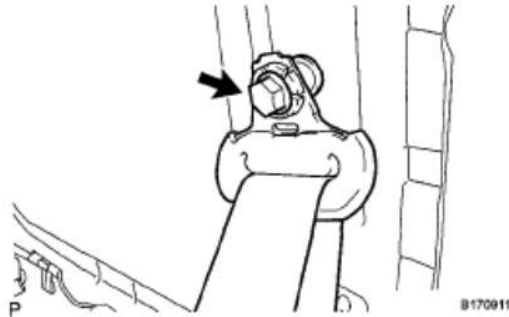


Fig. 71: Identifying Shoulder Anchor Of Rear No. 1 Seat Outer Belt Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL QUARTER PILLAR GARNISH** (See INSTALLATION)
3. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH** (for LH Side) (See INSTALLATION)
4. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY RH** (for RH Side) (See INSTALLATION)
5. **CONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY**
 - a. Connect the floor anchor end of the rear No. 1 seat outer belt assembly and install the bolt.

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

NOTE: Do not allow the anchor part of the rear No. 1 seat outer belt assembly to overlap the protruding part of the floor panel.

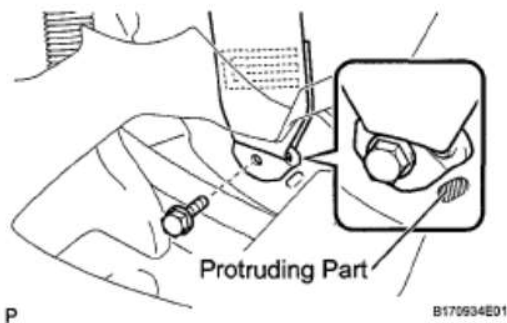


Fig. 72: Identifying Floor Anchor End Of Rear No. 1 Seat Outer Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL FRONT DECK SIDE TRIM COVER** (See INSTALLATION)
7. **INSTALL NO. 2 DECK SIDE TRIM HOOK** (for LH Side) (See INSTALLATION)
8. **INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM HOOK** (for RH Side) (See INSTALLATION)
9. **INSTALL ROPE HOOK ASSEMBLY** (See INSTALLATION)

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10. **INSTALL REAR DECK TRIM COVER (for LH Side without Remote Folding Function) (See INSTALLATION)**
11. **INSTALL RECLINING REMOTE CONTROL LEVER BEZEL LH (for LH Side with Remote Folding Function) (See INSTALLATION)**
12. **INSTALL REAR POWER OUTLET SOCKET COVER (for LH Side) (See INSTALLATION)**
13. **INSTALL REAR POWER POINT SOCKET ASSEMBLY (for LH Side) (See INSTALLATION)**
14. **INSTALL REAR COMBINATION LIGHT SERVICE COVER LH (for LH Side) (See INSTALLATION)**
15. **INSTALL REAR COMBINATION LIGHT SERVICE COVER RH (for RH Side) (See INSTALLATION)**
16. **INSTALL SIDE TRIM COVER RH (for RH Side without Rear Automatic Air Conditioning System) (See INSTALLATION)**
17. **INSTALL REAR ROOM TEMPERATURE SENSOR (for RH Side with Rear Automatic Air Conditioning System) (See INSPECTION)**
18. **INSTALL SIDE TRIM COVER LH (for LH Side without Rear Seat Entertainment System) (See INSTALLATION)**
19. **INSTALL POWER OUTLET SOCKET BEZEL (for LH Side with Rear Seat Entertainment System) (See INSTALLATION)**
20. **INSTALL DECK SIDE TRIM (See INSTALLATION)**
21. **INSTALL DECK SIDE TRIM COVER (See INSTALLATION)**
22. **INSTALL REAR SEAT SIDE GARNISH CAP (for RH Side without Rear Air Conditioning System) (See INSTALLATION)**
23. **INSTALL REAR SEAT SIDE GARNISH CAP (for RH Side with Rear Air Conditioning System) (See INSTALLATION)**
24. **INSTALL REAR FLOOR FINISH PLATE (See INSTALLATION)**
25. **INSTALL REAR NO. 2 SEAT ASSEMBLY (w/ Rear No. 2 Seat) (See INSTALLATION)**
26. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH (w/ Rear No. 2 Seat) (See INSTALLATION)**
27. **CONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH (w/ Rear No. 2 Seat)**
28. **INSTALL REAR NO. 2 SEAT INNER BELT ASSEMBLY (w/ Rear No. 2 Seat) (See INSTALLATION)**
29. **INSTALL REAR DECK FLOOR BOX (w/o Rear No. 2 Seat) (See INSTALLATION)**
30. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/ Rear No. 2 Seat) (See INSTALLATION)**
31. **INSTALL REAR MAT (See INSTALLATION)**
32. **INSTALL DECK FLOOR BOARD ASSEMBLY (w/o Rear No. 2 Seat) (See INSTALLATION)**
33. **INSTALL DECK SIDE TRIM BOX LH (See INSTALLATION)**
34. **INSTALL REAR SEAT SIDE COVER LH (w/ Rear No. 2 Seat) (See INSTALLATION)**
35. **INSTALL REAR NO. 1 FLOOR BOARD (w/o Rear No. 2 Seat) (See INSTALLATION)**
36. **INSTALL DECK SIDE TRIM BOX RH (See INSTALLATION)**
37. **INSTALL JACK CARRIER ASSEMBLY (See INSTALLATION)**

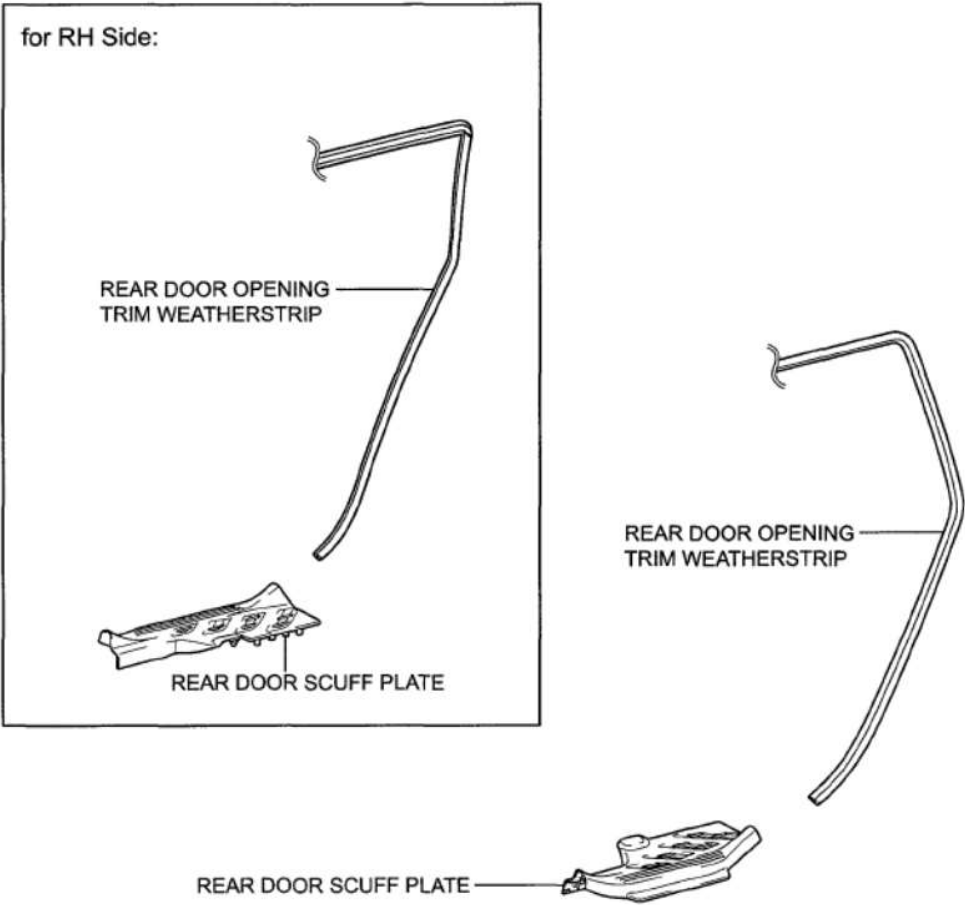
2009 Toyota Highlander Limited**2009 RESTRAINTS Seat Belt - Highlander**

38. **INSTALL JACK ASSEMBLY** (See INSTALLATION)
39. **INSTALL JACK CARRIER CUSHION** (See INSTALLATION)
40. **INSTALL JACK CARRIER SUPPORT**
41. **INSTALL REAR SEAT SIDE COVER RH (w/ Rear No. 2 Seat)** (See INSTALLATION)
42. **INSTALL TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)**
43. **INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY** (See INSTALLATION)
44. **INSTALL NO. 3 DECK BOARD SUB-ASSEMBLY** (See INSTALLATION)
45. **INSTALL DECK BOARD ASSEMBLY** (See INSTALLATION)
46. **CONNECT REAR DOOR OPENING TRIM WEATHERSTRIP**
47. **INSTALL REAR DOOR SCUFF PLATE** (See INSTALLATION)
48. **INSTALL REAR NO. 1 SEAT ASSEMBLY** (See INSTALLATION)
49. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See INSTALLATION)
50. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK** (See INSTALLATION)
51. **INSTALL REAR SEAT LEG SIDE COVER** (See INSTALLATION)
52. **INSTALL REAR INNER TRACK BRACKET COVER** (See INSTALLATION)
53. **INSTALL REAR OUTER TRACK BRACKET COVER** (See INSTALLATION)
54. **INSTALL REAR SEAT TRACK BRACKET COVER** (See INSTALLATION)
55. **INSTALL REAR SEAT HEADREST ASSEMBLY** (See INSTALLATION)
56. **INSTALL REAR CENTER SEAT ASSEMBLY (for LH Side)**

REAR NO. 2 SEAT OUTER BELT ASSEMBLY**COMPONENTS**

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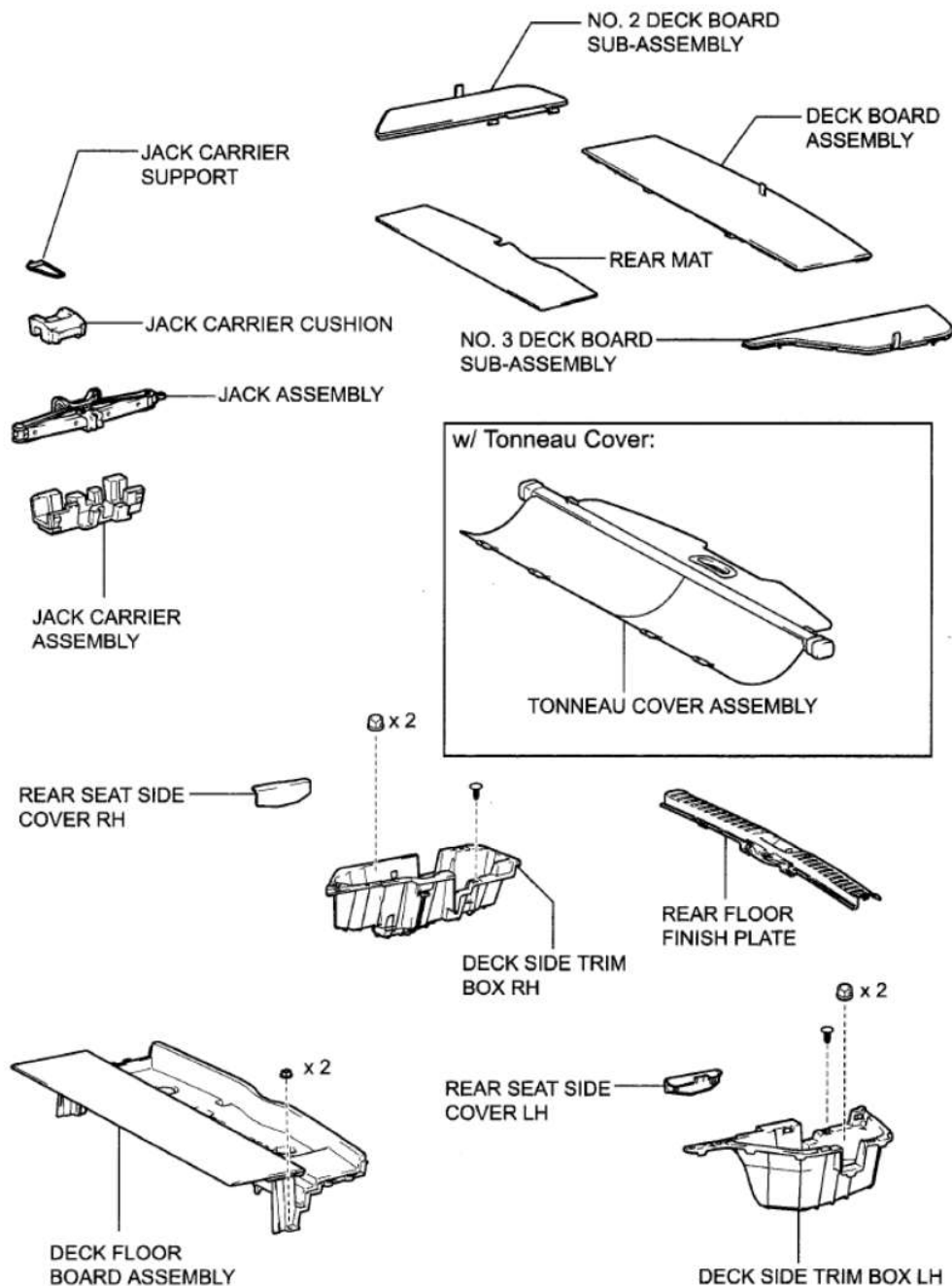
P

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Fig. 73: Identifying Rear No. 2 Seat Outer Belt Assembly Components With Torque Specification (1 Of 6)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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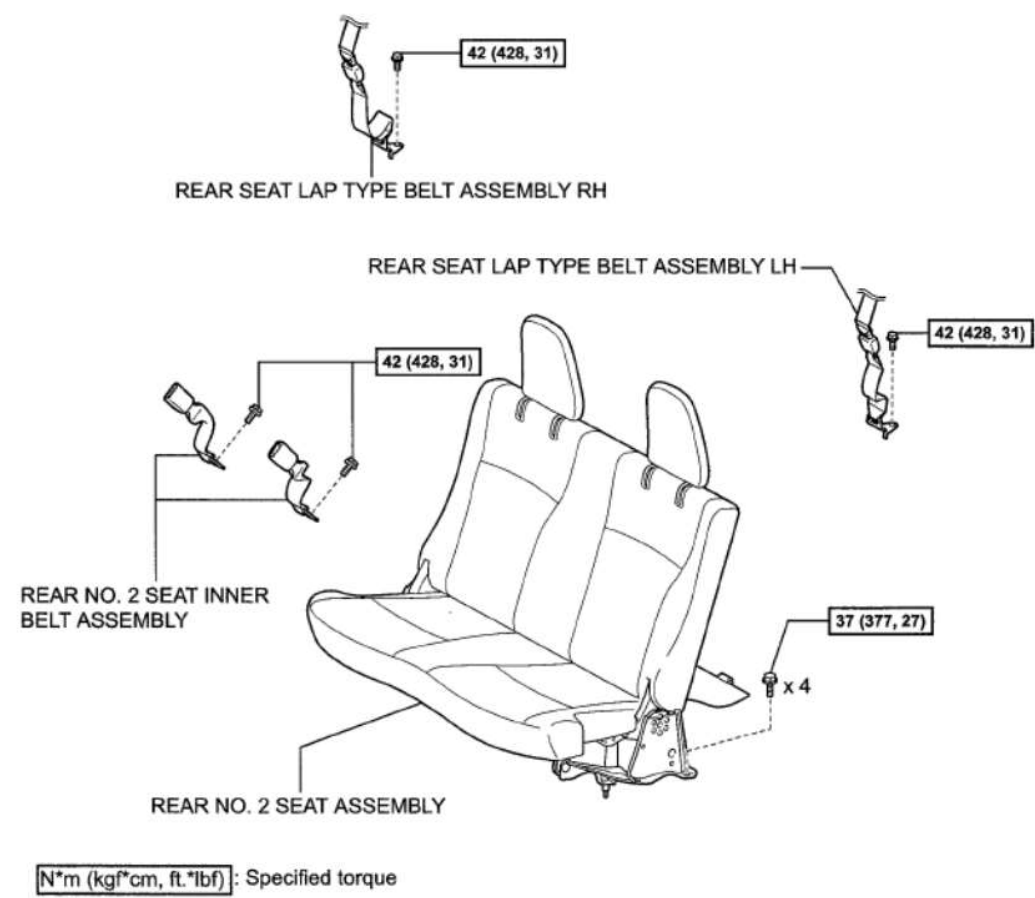
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Fig. 74: Identifying Rear No. 2 Seat Outer Belt Assembly Components With Torque Specification (2 Of 6)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 75: Identifying Rear No. 2 Seat Outer Belt Assembly Components With Torque Specification (3 Of 6)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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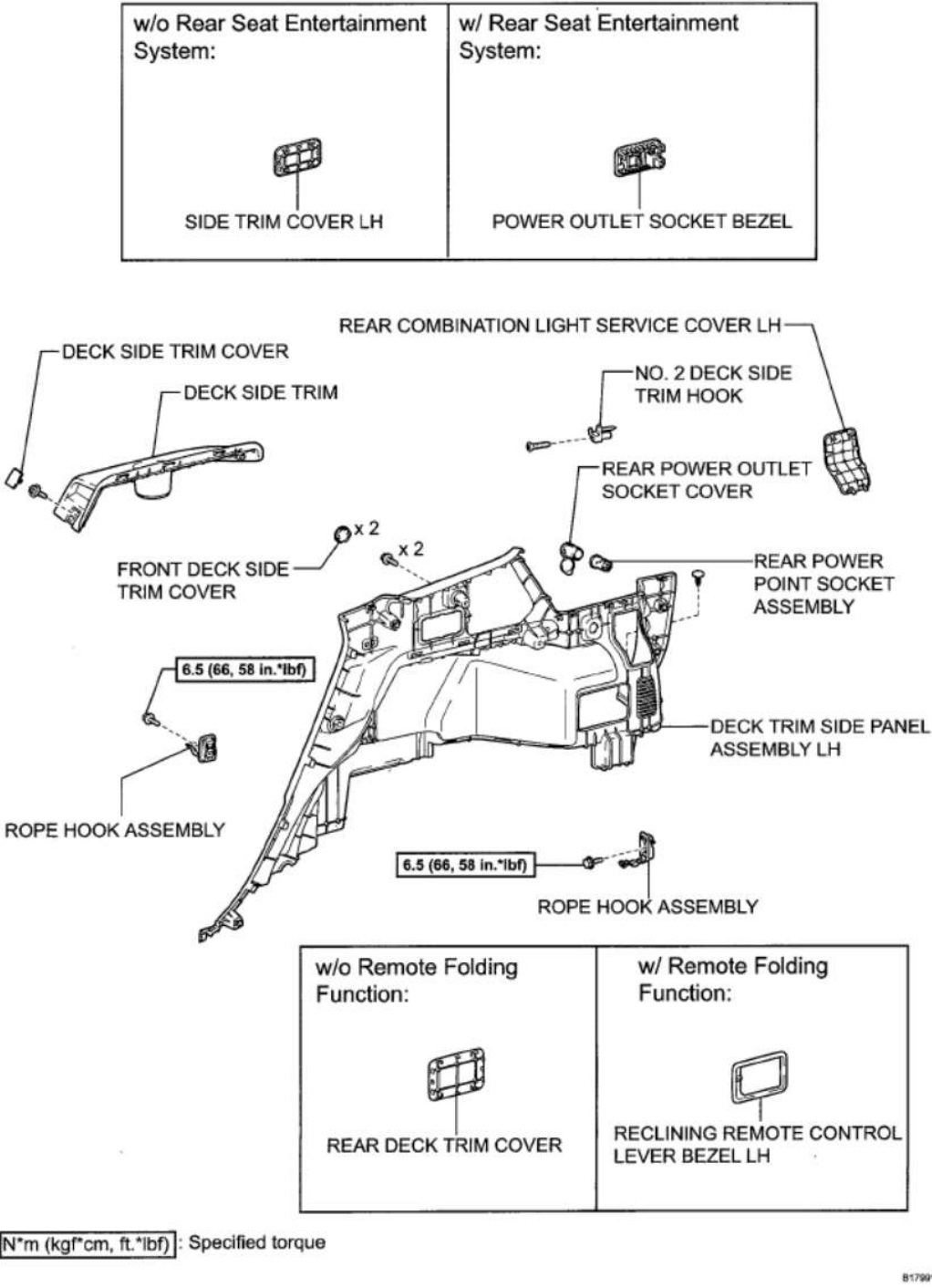
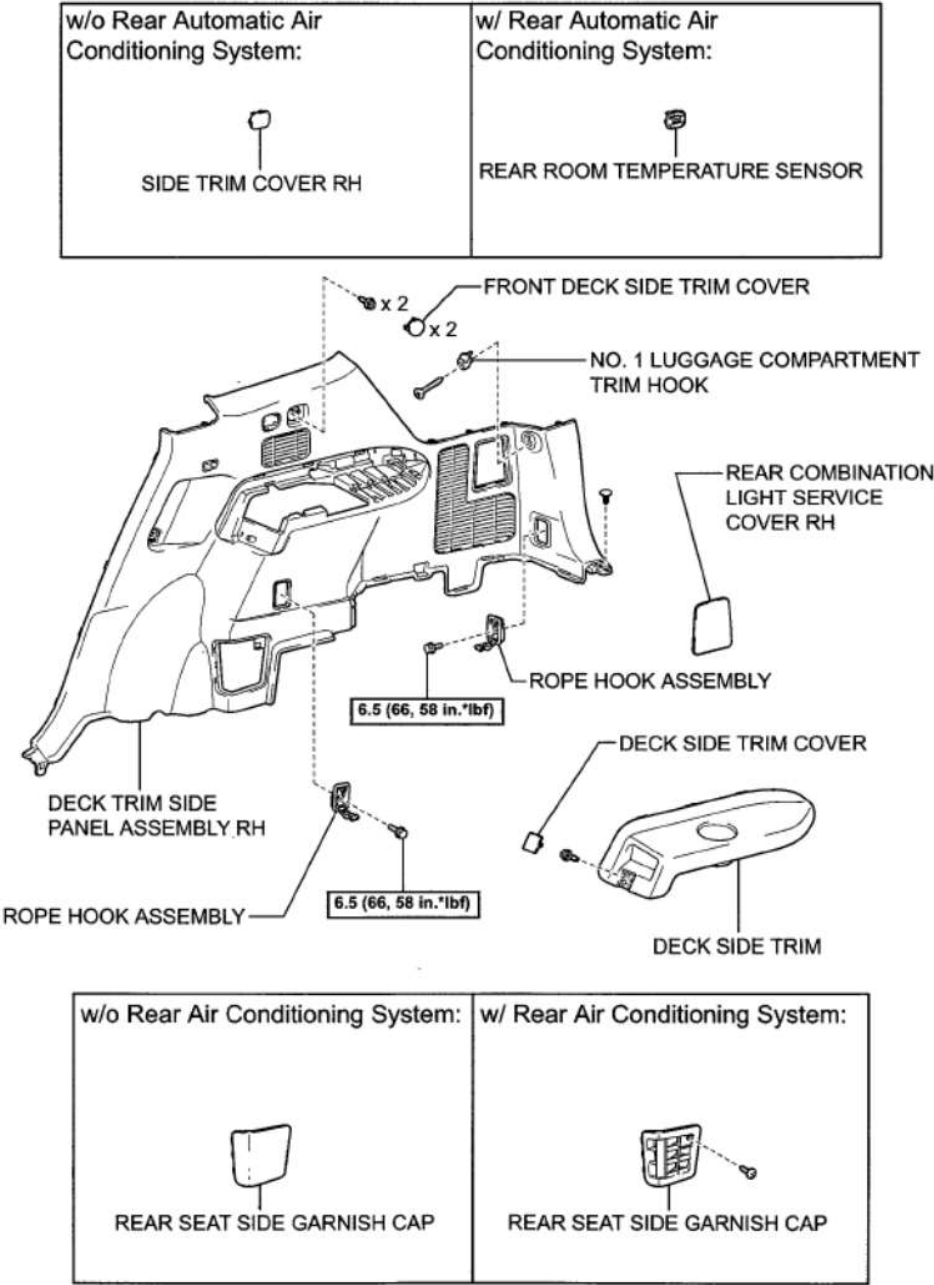


Fig. 76: Identifying Rear No. 2 Seat Outer Belt Assembly Components With Torque Specification (4 Of 6)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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for RH Side:



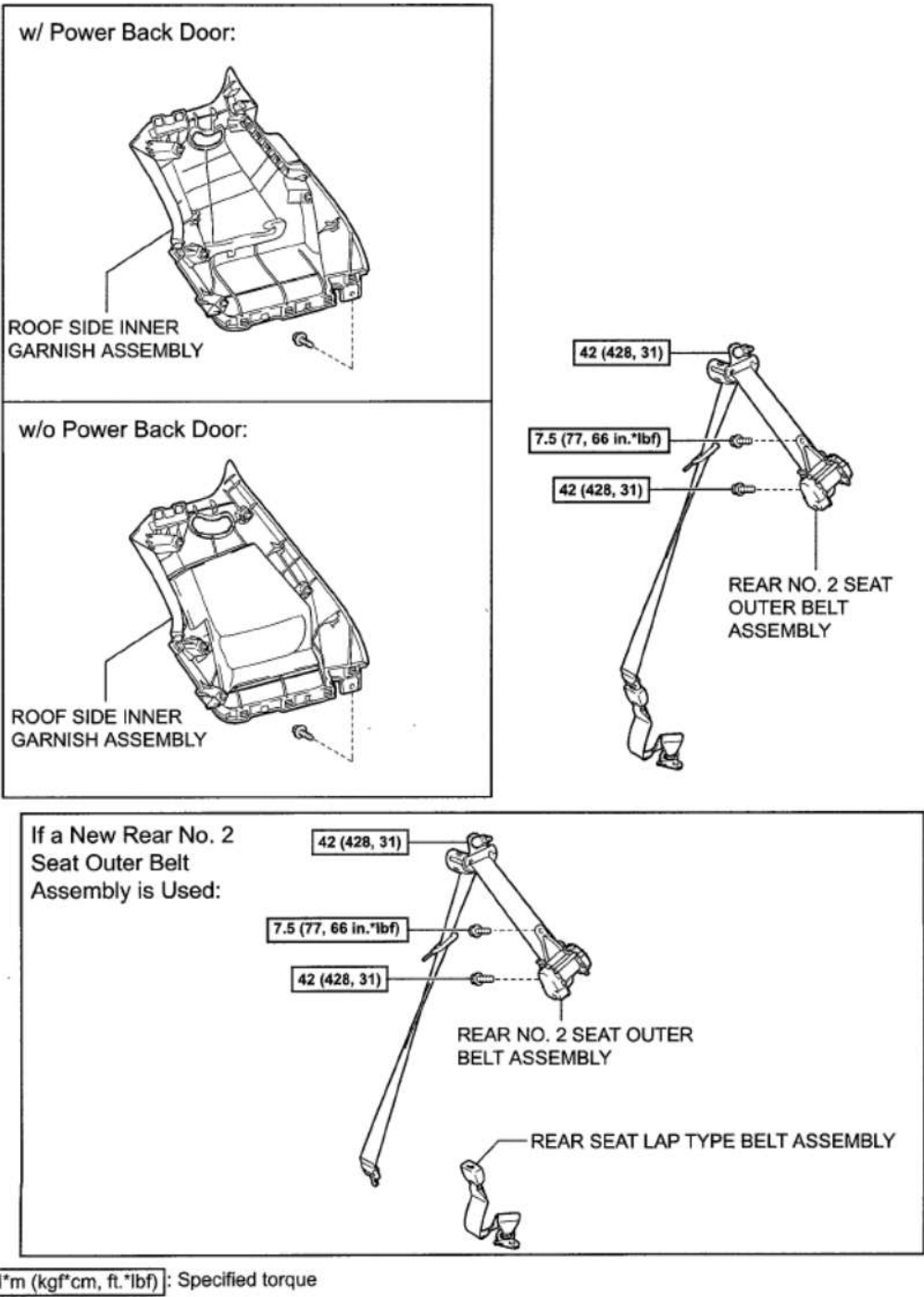
[N*m (kgf*cm, ft.*lbf)]: Specified torque

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Fig. 77: Identifying Rear No. 2 Seat Outer Belt Assembly Components With Torque Specification (5 Of 6)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 78: Identifying Rear No. 2 Seat Outer Belt Assembly Components With Torque Specification (6 Of 6)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

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1. **REMOVE REAR DOOR SCUFF PLATE** (See REMOVAL)
2. **DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP**
3. **REMOVE DECK BOARD ASSEMBLY** (See REMOVAL)
4. **REMOVE NO. 3 DECK BOARD SUB-ASSEMBLY** (See REMOVAL)
5. **REMOVE NO. 2 DECK BOARD SUB-ASSEMBLY** (See REMOVAL)
6. **REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)** (See REMOVAL)
7. **REMOVE REAR SEAT SIDE COVER LH** (See REMOVAL)
8. **REMOVE DECK SIDE TRIM BOX LH** (See REMOVAL)
9. **REMOVE REAR SEAT SIDE COVER RH** (See REMOVAL)
10. **REMOVE JACK CARRIER SUPPORT**
11. **REMOVE JACK CARRIER CUSHION** (See REMOVAL)
12. **REMOVE JACK ASSEMBLY** (See REMOVAL)
13. **REMOVE JACK CARRIER ASSEMBLY** (See REMOVAL)
14. **REMOVE DECK SIDE TRIM BOX RH** (See REMOVAL)
15. **REMOVE REAR MAT** (See REMOVAL)
16. **REMOVE DECK FLOOR BOARD ASSEMBLY** (See REMOVAL)
17. **REMOVE REAR NO. 2 SEAT INNER BELT ASSEMBLY** (See REMOVAL)
18. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY LH**
 - a. Remove the bolt and disconnect the rear seat lap type belt assembly LH.
19. **DISCONNECT REAR SEAT LAP TYPE BELT ASSEMBLY RH**

HINT:

Use the same procedure for the RH side and the LH side.

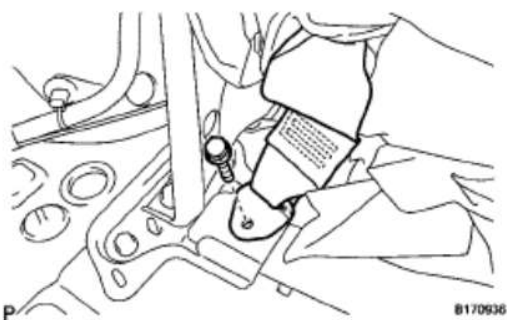


Fig. 79: Identifying Rear Seat Lap Type Belt Assembly LH Bolt

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

20. **REMOVE REAR NO. 2 SEAT ASSEMBLY** (See DISASSEMBLY)
21. **REMOVE REAR FLOOR FINISH PLATE** (See REMOVAL)
22. **REMOVE REAR SEAT SIDE GARNISH CAP (for RH Side without Rear Air Conditioning System)** (See REMOVAL)

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23. **REMOVE REAR SEAT SIDE GARNISH CAP (for RH Side with Rear Air Conditioning System)** (See **REMOVAL**)
24. **REMOVE DECK SIDE TRIM COVER** (See **REMOVAL**)
25. **REMOVE DECK SIDE TRIM** (See **REMOVAL**)
26. **REMOVE SIDE TRIM COVER LH (for LH Side without Rear Seat Entertainment System)** (See **REMOVAL**)
27. **REMOVE POWER OUTLET SOCKET BEZEL (for LH Side with Rear Seat Entertainment System)** (See **REMOVAL**)
28. **REMOVE SIDE TRIM COVER RH (for RH Side without Rear Automatic Air Conditioning System)** (See **REMOVAL**)
29. **REMOVE REAR ROOM TEMPERATURE SENSOR (for RH Side with Rear Automatic Air Conditioning System)** (See **ROOM TEMPERATURE SENSOR (FOR REAR)**)
30. **REMOVE REAR COMBINATION LIGHT SERVICE COVER LH (for LH Side)** (See **REMOVAL**)
31. **REMOVE REAR COMBINATION LIGHT SERVICE COVER RH (for RH Side)** (See **REMOVAL**)
32. **REMOVE REAR POWER POINT SOCKET ASSEMBLY (for LH Side)** (See **REAR POWER OUTLET SOCKET**)
33. **REMOVE REAR POWER OUTLET SOCKET COVER (for LH Side)** (See **INSTALLATION**)
34. **REMOVE REAR DECK TRIM COVER (for LH Side without Remote Folding Function)** (See **REMOVAL**)
35. **REMOVE RECLINING REMOTE CONTROL LEVER BEZEL LH (for LH Side with Remote Folding Function)** (See **REMOVAL**)
36. **REMOVE ROPE HOOK ASSEMBLY** (See **REMOVAL**)
37. **REMOVE NO. 2 DECK SIDE TRIM HOOK (for LH Side)** (See **REMOVAL**)
38. **REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (for RH Side)** (See **REMOVAL**)
39. **REMOVE FRONT DECK SIDE TRIM COVER** (See **REMOVAL**)
40. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side)** (See **REMOVAL**)
41. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side)** (See **REMOVAL**)
42. **REMOVE ROOF SIDE INNER GARNISH ASSEMBLY (w/o Power Back Door)** (See **REMOVAL**)
43. **REMOVE ROOF SIDE INNER GARNISH ASSEMBLY (w/ Power Back Door)** (See **REMOVAL**)
44. **REMOVE REAR NO. 2 SEAT OUTER BELT ASSEMBLY**
 - a. Remove the bolt and disconnect the shoulder end of the rear No. 2 seat outer belt assembly.

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Fig. 80: Identifying Shoulder End Of Rear No. 2 Seat Outer Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Remove the 2 bolts and the rear No. 2 seat outer belt assembly.

INSTALLATION

1. INSTALL REAR NO. 2 SEAT OUTER BELT ASSEMBLY

- a. If a new rear No. 2 seat outer belt assembly is used:
 1. Install a new rear seat lap type belt assembly to a new rear No. 2 seat outer belt assembly.

NOTE: After installing the belt, check that it is not twisted.

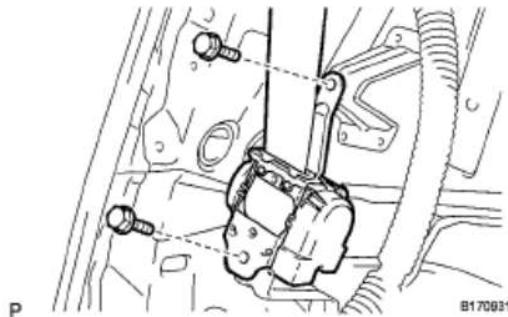


Fig. 81: Identifying Rear No. 2 Seat Outer Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the rear No. 2 seat outer belt assembly with the 2 bolts.

Torque: Bolt < A >

7.5 N*m (77 kgf*cm, 66 in.*lbf)

Bolt < B >

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

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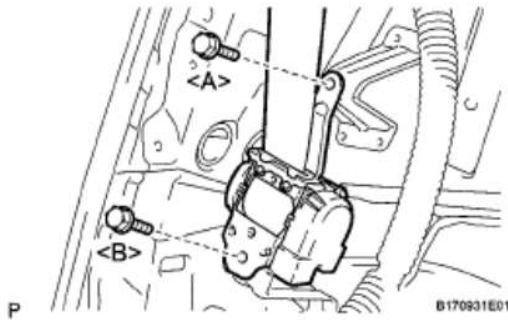


Fig. 82: Identifying Rear No. 2 Seat Outer Belt Assembly With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Connect the shoulder anchor of the rear No. 2 seat outer belt assembly with the bolt.

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

2. **INSTALL ROOF SIDE INNER GARNISH ASSEMBLY (w/o Power Back Door) (See INSTALLATION)**
3. **INSTALL ROOF SIDE INNER GARNISH ASSEMBLY (w/ Power Back Door) (See INSTALLATION)**
4. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side) (See INSTALLATION)**



Fig. 83: Identifying Shoulder End Of Rear No. 2 Seat Outer Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side) (See INSTALLATION)**
6. **INSTALL FRONT DECK SIDE TRIM COVER (See INSTALLATION)**
7. **INSTALL NO. 2 DECK SIDE TRIM HOOK (for LH Side) (See INSTALLATION)**
8. **INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (for RH Side) (See INSTALLATION)**
9. **INSTALL ROPE HOOK ASSEMBLY (See INSTALLATION)**
10. **INSTALL REAR DECK TRIM COVER (for LH Side without Remote Folding Function) (See INSTALLATION)**
11. **INSTALL RECLINING REMOTE CONTROL LEVER BEZEL LH (for LH Side with Remote**

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Folding Function) (See INSTALLATION)

12. **INSTALL REAR POWER OUTLET SOCKET COVER (for LH Side) (See INSTALLATION)**
13. **INSTALL REAR POWER POINT SOCKET ASSEMBLY (for LH Side) (See INSTALLATION)**
14. **INSTALL REAR COMBINATION LIGHT SERVICE COVER LH (for LH Side) (See INSTALLATION)**
15. **INSTALL REAR COMBINATION LIGHT SERVICE COVER RH (for RH Side) (See INSTALLATION)**
16. **INSTALL SIDE TRIM COVER RH (for RH Side without Rear Automatic Air Conditioning System) (See INSTALLATION)**
17. **INSTALL REAR ROOM TEMPERATURE SENSOR (for RH Side with Rear Automatic Air Conditioning System) (See INSPECTION)**
18. **INSTALL SIDE TRIM COVER LH (for LH Side without Rear Seat Entertainment System) (See INSTALLATION)**
19. **INSTALL POWER OUTLET SOCKET BEZEL (for LH Side with Rear Seat Entertainment System) (See INSTALLATION)**
20. **INSTALL DECK SIDE TRIM (See INSTALLATION)**
21. **INSTALL DECK SIDE TRIM COVER (See INSTALLATION)**
22. **INSTALL REAR SEAT SIDE GARNISH CAP (for RH Side without Rear Air Conditioning System) (See INSTALLATION)**
23. **INSTALL REAR SEAT SIDE GARNISH CAP (for RH Side with Rear Air Conditioning System) (See INSTALLATION)**
24. **INSTALL REAR FLOOR FINISH PLATE (See INSTALLATION)**
25. **INSTALL REAR NO. 2 SEAT ASSEMBLY (See INSTALLATION)**
26. **INSTALL REAR SEAT LAP TYPE BELT ASSEMBLY LH**
 - a. Install the rear seat lap type belt assembly LH with the bolt.

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

NOTE: After installing the belt, check that it is not twisted.

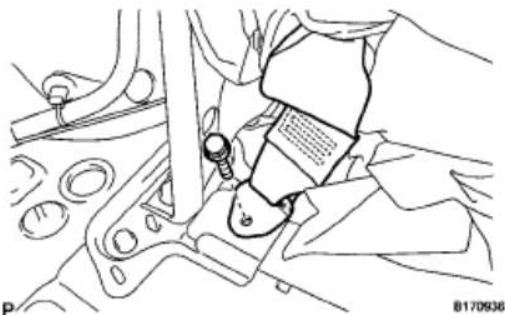


Fig. 84: Identifying Rear Seat Lap Type Belt Assembly LH Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2009 Toyota Highlander Limited**2009 RESTRAINTS Seat Belt - Highlander****27. INSTALL REAR SEAT LAP TYPE BELT ASSEMBLY RH**

- a. Install the rear seat lap type belt assembly RH with the bolt.

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

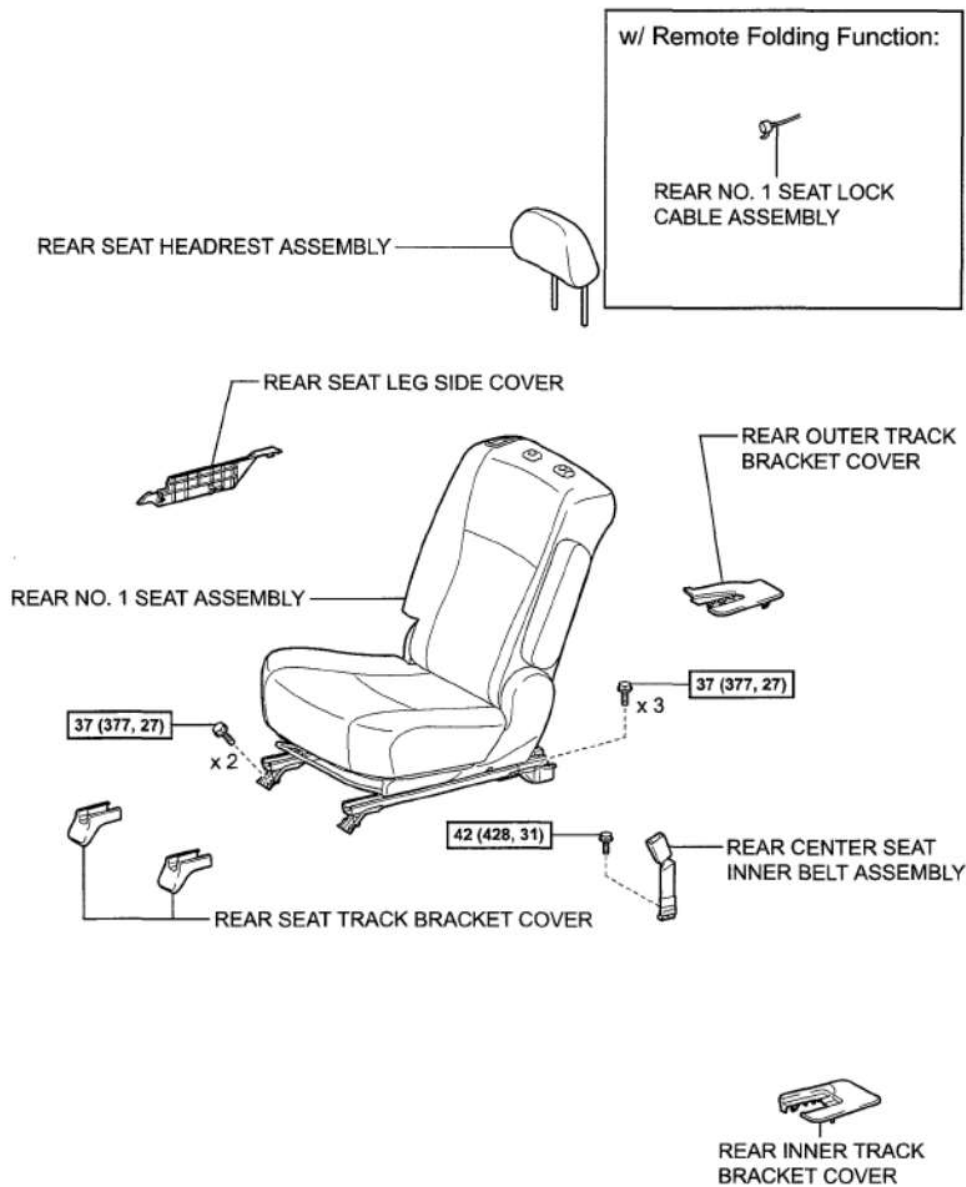
NOTE: After installing the belt, check that it is not twisted.

28. **INSTALL REAR NO. 2 SEAT INNER BELT ASSEMBLY** (See INSTALLATION)
29. **INSTALL DECK FLOOR BOARD ASSEMBLY** (See INSTALLATION)
30. **INSTALL REAR MAT** (See INSTALLATION)
31. **INSTALL DECK SIDE TRIM BOX LH** (See INSTALLATION)
32. **INSTALL REAR SEAT SIDE COVER LH** (See INSTALLATION)
33. **INSTALL DECK SIDE TRIM BOX RH** (See INSTALLATION)
34. **INSTALL JACK CARRIER ASSEMBLY** (See INSTALLATION)
35. **INSTALL JACK ASSEMBLY** (See INSTALLATION)
36. **INSTALL JACK CARRIER CUSHION** (See INSTALLATION)
37. **INSTALL JACK CARRIER SUPPORT**
38. **INSTALL REAR SEAT SIDE COVER RH** (See INSTALLATION)
39. **INSTALL TONNEAU COVER ASSEMBLY** (w/ Tonneau Cover)
40. **INSTALL NO. 2 DECK BOARD SUB-ASSEMBLY** (See INSTALLATION)
41. **INSTALL NO. 3 DECK BOARD SUB-ASSEMBLY** (See INSTALLATION)
42. **INSTALL DECK BOARD ASSEMBLY** (See INSTALLATION)
43. **CONNECT REAR DOOR OPENING TRIM WEATHERSTRIP**
44. **INSTALL REAR DOOR SCUFF PLATE** (See INSTALLATION)

REAR CENTER SEAT INNER BELT ASSEMBLY**COMPONENTS**

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

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Fig. 85: Identifying Rear Center Seat Inner Belt Assembly Components With Torque Specification
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. REMOVE REAR SEAT HEADREST ASSEMBLY (See REMOVAL)
2. REMOVE REAR SEAT TRACK BRACKET COVER (See REMOVAL)
3. REMOVE REAR OUTER TRACK BRACKET COVER (See REMOVAL)

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4. **REMOVE REAR INNER TRACK BRACKET COVER** (See **REMOVAL**)
5. **REMOVE REAR SEAT LEG SIDE COVER** (See **REMOVAL**)
6. **DISCONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY** (w/ Remote Folding Function) (See **REMOVAL**)
7. **REMOVE REAR NO. 1 SEAT ASSEMBLY** (See **DISASSEMBLY**)
8. **REMOVE REAR CENTER SEAT INNER BELT ASSEMBLY**
 - a. Remove the bolt and the rear center seat inner belt assembly.



Fig. 86: Identifying Rear Center Seat Inner Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

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

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

NOTE: Do not allow the anchor part of the rear center seat inner belt assembly to overlap the protruding part of the floor panel.

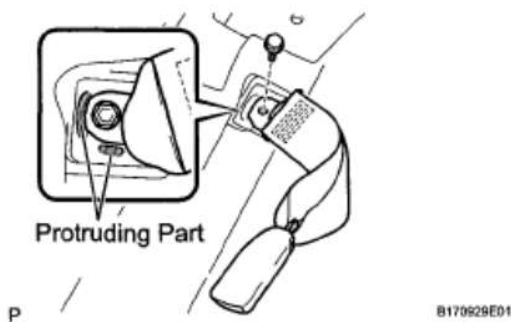


Fig. 87: Identifying Rear Center Seat Inner Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

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3. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function) (See INSTALLATION)**
4. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK (See INSTALLATION)**
5. **INSTALL REAR SEAT LEG SIDE COVER (See INSTALLATION)**
6. **INSTALL REAR INNER TRACK BRACKET COVER (See INSTALLATION)**
7. **INSTALL REAR OUTER TRACK BRACKET COVER (See INSTALLATION)**
8. **INSTALL REAR SEAT TRACK BRACKET COVER (See INSTALLATION)**
9. **INSTALL REAR SEAT HEADREST ASSEMBLY (See INSTALLATION)**

REAR CENTER SEAT OUTER BELT ASSEMBLY**COMPONENTS**

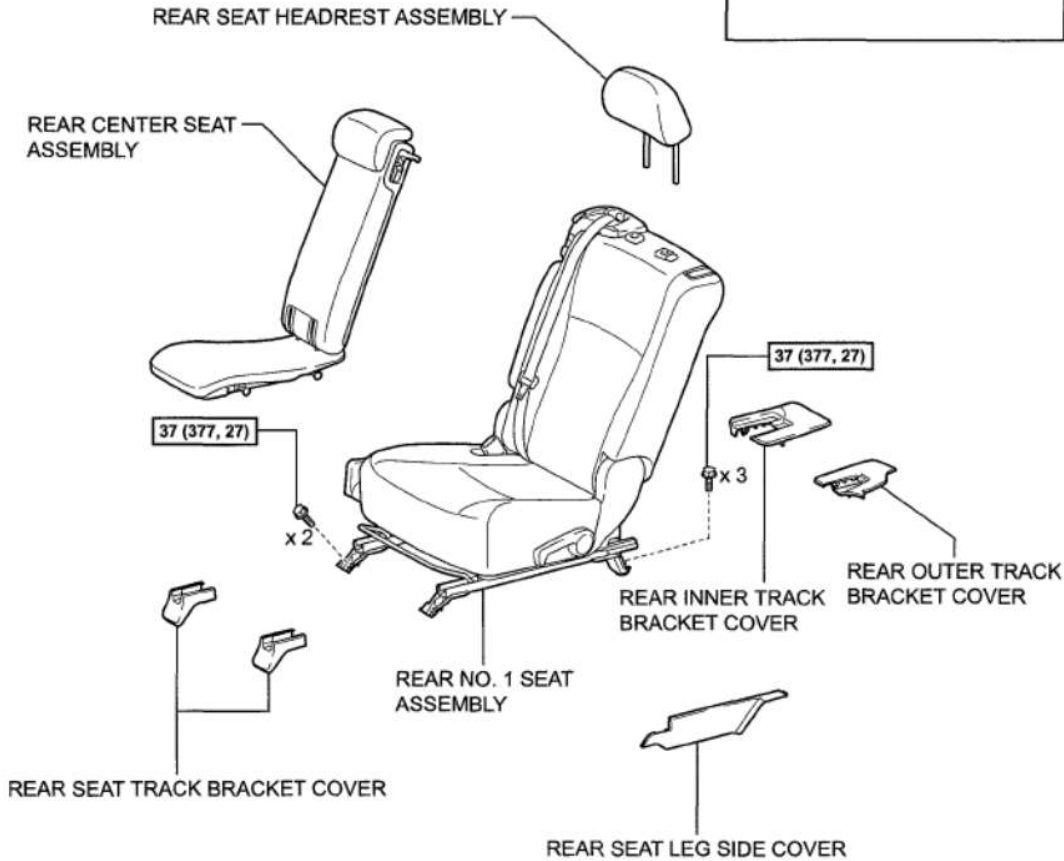
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w/ Remote Folding Function:



REAR NO. 1 SEAT LOCK
CABLE ASSEMBLY



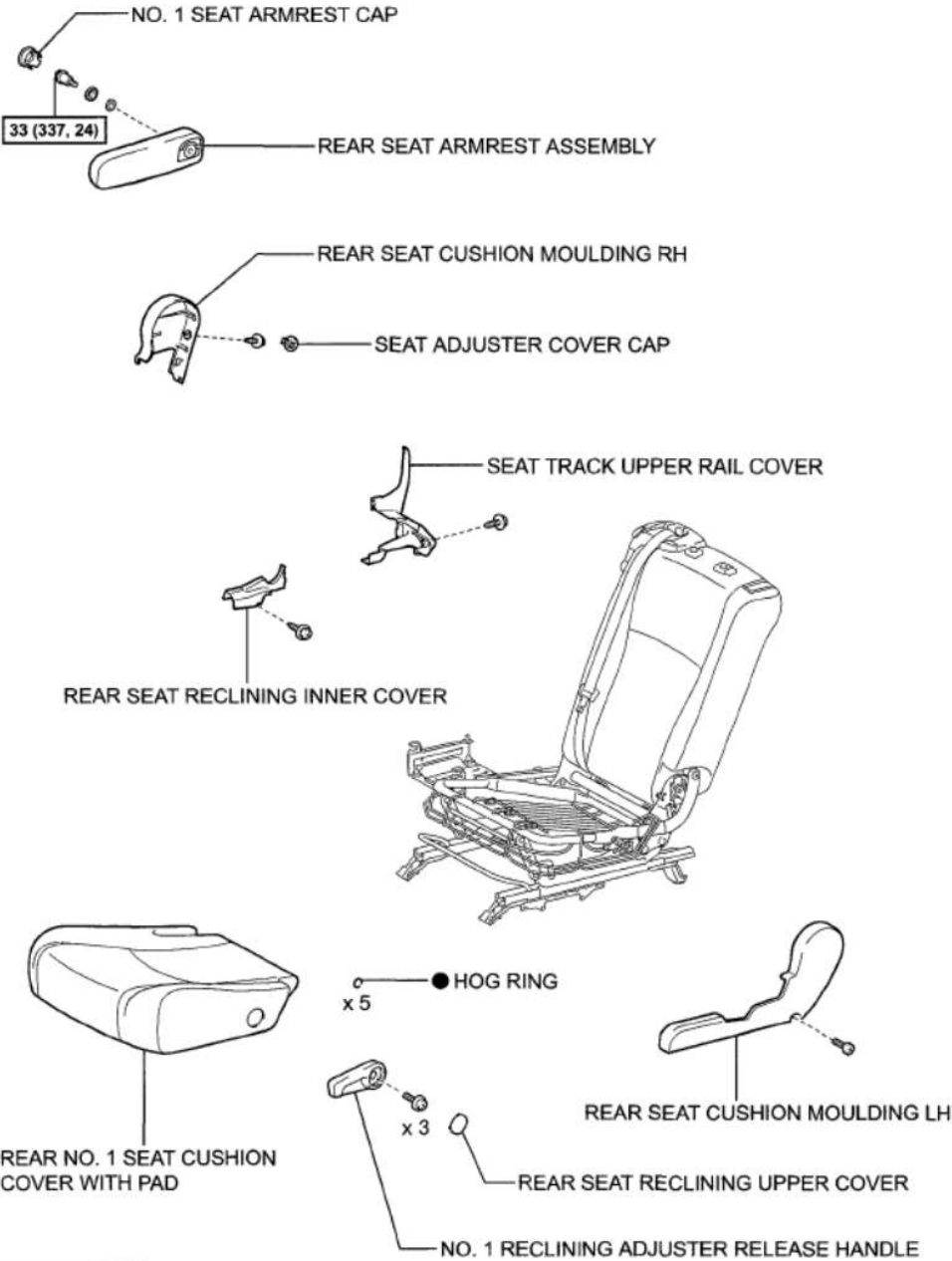
[N*m (kgf*cm, ft.*lbf)]: Specified torque

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Fig. 88: Identifying Rear Center Seat Outer Belt Assembly Components With Torque Specification (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

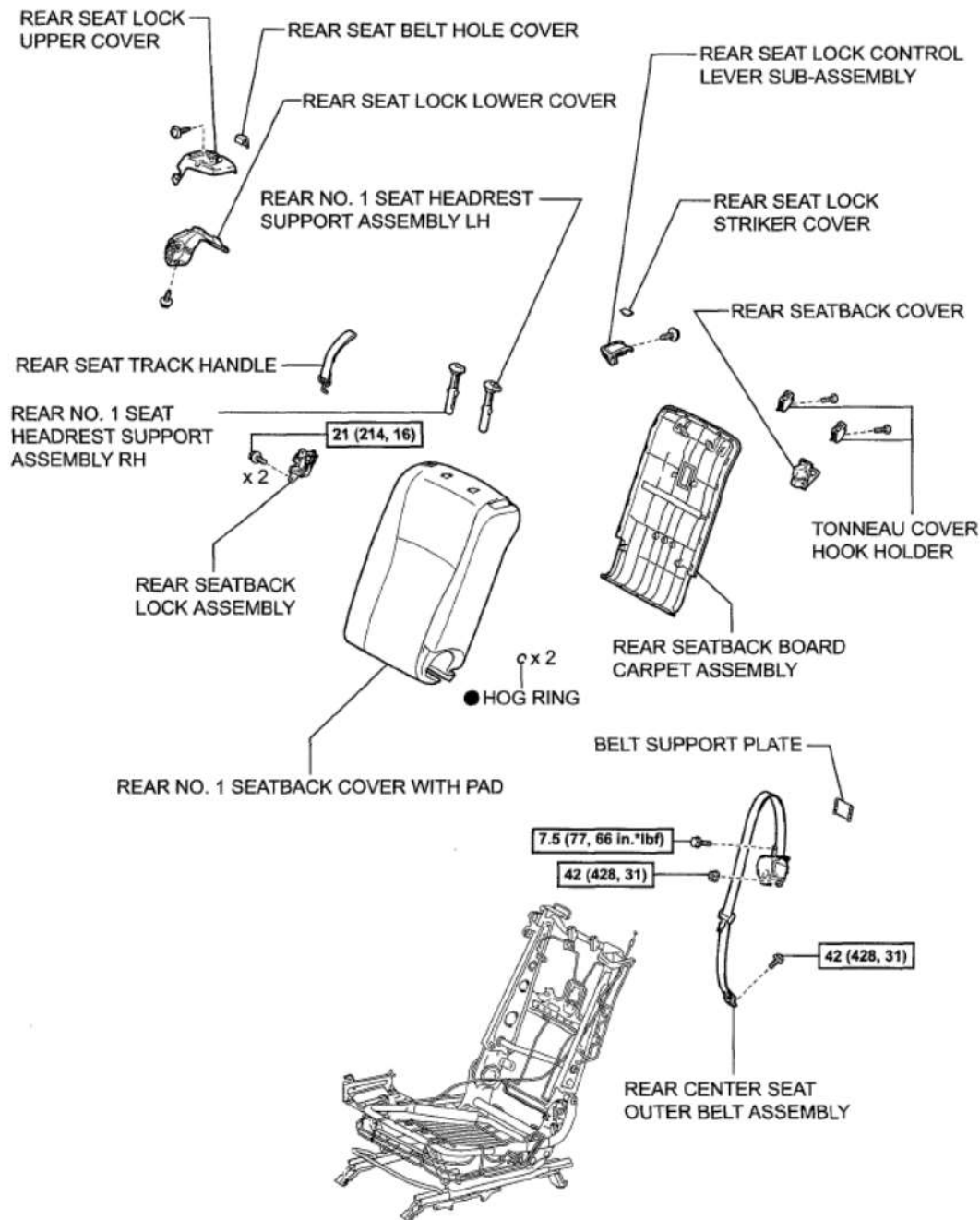
● Non-reusable part

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Fig. 89: Identifying Rear Center Seat Outer Belt Assembly Components With Torque Specification (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

● Non-reusable part

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Fig. 90: Identifying Rear Center Seat Outer Belt Assembly Components With Torque Specification (3 Of 3)

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

REMOVAL

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1. **REMOVE REAR CENTER SEAT ASSEMBLY**
2. **REMOVE REAR SEAT HEADREST ASSEMBLY** (See **REMOVAL**)
3. **REMOVE REAR SEAT TRACK BRACKET COVER** (See **REMOVAL**)
4. **REMOVE REAR OUTER TRACK BRACKET COVER** (See **REMOVAL**)
5. **REMOVE REAR INNER TRACK BRACKET COVER** (See **REMOVAL**)
6. **REMOVE REAR SEAT LEG SIDE COVER** (See **REMOVAL**)
7. **REMOVE REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See **REMOVAL**)
8. **REMOVE REAR NO. 1 SEAT ASSEMBLY** (See **DISASSEMBLY**)
9. **REMOVE REAR SEAT RECLINING UPPER COVER** (See **DISASSEMBLY**)
10. **REMOVE NO. 1 RECLINING ADJUSTER RELEASE HANDLE** (See **DISASSEMBLY**)
11. **REMOVE REAR SEAT CUSHION MOULDING LH** (See **DISASSEMBLY**)
12. **REMOVE SEAT ADJUSTER COVER CAP** (See **DISASSEMBLY**)
13. **REMOVE REAR SEAT CUSHION MOULDING RH** (See **DISASSEMBLY**)
14. **REMOVE REAR NO. 1 SEAT CUSHION COVER WITH PAD** (See **DISASSEMBLY**)
15. **REMOVE SEAT TRACK UPPER RAIL COVER** (See **DISASSEMBLY**)
16. **REMOVE REAR SEAT RECLINING INNER COVER** (See **DISASSEMBLY**)
17. **REMOVE NO. 1 SEAT ARMREST CAP** (See **DISASSEMBLY**)
18. **REMOVE REAR SEAT ARMREST ASSEMBLY** (See **DISASSEMBLY**)
19. **REMOVE TONNEAU COVER HOOK HOLDER** (See **DISASSEMBLY**)
20. **REMOVE REAR SEATBACK COVER** (See **DISASSEMBLY**)
21. **REMOVE REAR SEAT LOCK STRIKER COVER** (See **DISASSEMBLY**)
22. **REMOVE REAR SEAT LOCK CONTROL LEVER SUB-ASSEMBLY** (See **DISASSEMBLY**)
23. **DISCONNECT REAR CENTER SEAT OUTER BELT ASSEMBLY**
 - a. Remove the bolt and disconnect the rear center seat outer belt assembly.
24. **REMOVE REAR SEATBACK LOWER LOCK BEZEL** (See **DISASSEMBLY**)
25. **REMOVE REAR SEATBACK LOCK ASSEMBLY** (See **DISASSEMBLY**)
26. **REMOVE REAR SEATBACK BOARD CARPET ASSEMBLY** (See **DISASSEMBLY**)
27. **REMOVE REAR NO. 1 SEAT HEADREST SUPPORT ASSEMBLY LH** (See **DISASSEMBLY**)
28. **REMOVE REAR NO. 1 SEAT HEADREST SUPPORT ASSEMBLY RH** (See **DISASSEMBLY**)

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Fig. 91: Identifying Rear Center Seat Outer Belt Assembly With Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

29. REMOVE REAR NO. 1 SEATBACK COVER WITH PAD (See **DISASSEMBLY**)
30. REMOVE BELT SUPPORT PLATE
 - a. Disengage the 3 claws and remove the belt support plate.

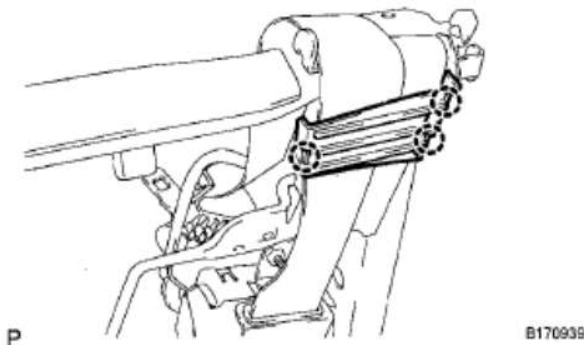


Fig. 92: Identifying Belt Support Plate Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

31. REMOVE REAR CENTER SEAT OUTER BELT ASSEMBLY
 - a. Remove the bolt, nut, and the rear center seat outer belt assembly.

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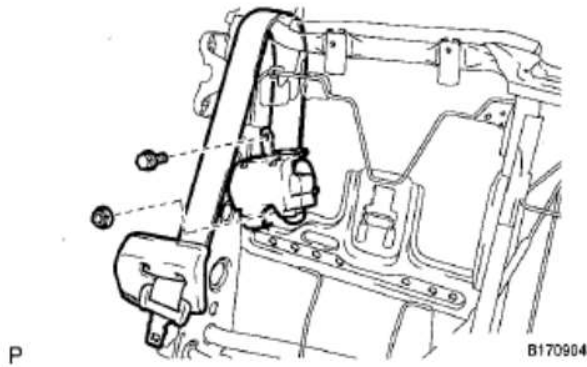


Fig. 93: Identifying Rear Center Seat Outer Belt Assembly Bolt And Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. INSTALL REAR CENTER SEAT OUTER BELT ASSEMBLY

- Install the rear center seat outer belt assembly with the bolt and nut.

Torque: Bolt

7.5 N*m (77 kgf*cm, 66 in.*lbf)

Nut

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

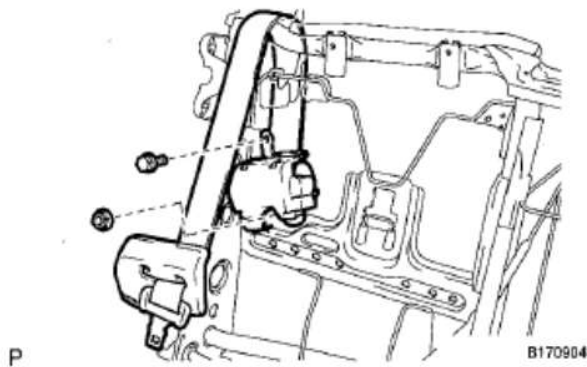


Fig. 94: Identifying Rear Center Seat Outer Belt Assembly Bolt And Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL BELT SUPPORT PLATE

- Engage the 3 claws to install the belt support plate.

3. INSTALL REAR NO. 1 SEATBACK COVER WITH PAD (See REASSEMBLY)

4. INSTALL REAR NO. 1 SEAT HEADREST SUPPORT ASSEMBLY RH (See REASSEMBLY)

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5. INSTALL REAR NO. 1 SEAT HEADREST SUPPORT ASSEMBLY LH (See REASSEMBLY)

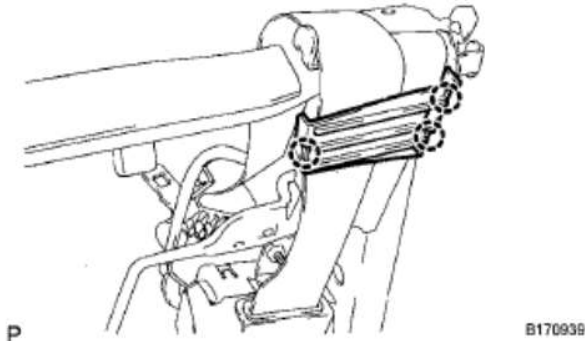
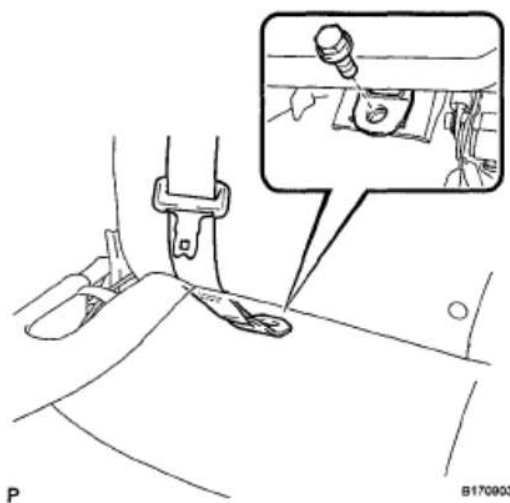


Fig. 95: Identifying Belt Support Plate Claws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. INSTALL REAR SEATBACK BOARD CARPET ASSEMBLY (See REASSEMBLY)
7. INSTALL REAR SEATBACK LOCK ASSEMBLY (See REASSEMBLY)
8. INSTALL REAR SEATBACK LOWER LOCK BEZEL (See REASSEMBLY)
9. CONNECT REAR CENTER SEAT OUTER BELT ASSEMBLY
 - a. Connect the rear center seat outer belt with the bolt.

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

10. INSTALL REAR SEAT LOCK CONTROL LEVER SUB-ASSEMBLY (See REASSEMBLY)
11. INSTALL REAR SEAT LOCK STRIKER COVER (See REASSEMBLY)
12. INSTALL REAR SEATBACK COVER (See REASSEMBLY)
13. INSTALL TONNEAU COVER HOOK HOLDER (See REASSEMBLY)
14. INSTALL REAR SEAT ARMREST ASSEMBLY (See REASSEMBLY)



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

15. **INSTALL NO. 1 SEAT ARMREST CAP** (See REASSEMBLY)
16. **INSTALL REAR SEAT RECLINING INNER COVER** (See REASSEMBLY)
17. **INSTALL SEAT TRACK UPPER RAIL COVER** (See REASSEMBLY)
18. **INSTALL REAR NO. 1 SEAT CUSHION COVER WITH PAD** (See REASSEMBLY)
19. **INSTALL REAR SEAT CUSHION MOULDING RH** (See REASSEMBLY)
20. **INSTALL SEAT ADJUSTER COVER CAP** (See REASSEMBLY)
21. **INSTALL REAR SEAT CUSHION MOULDING LH** (See REASSEMBLY)
22. **INSTALL NO. 1 RECLINING ADJUSTER RELEASE HANDLE** (See INSTALLATION)
23. **INSTALL REAR SEAT RECLINING UPPER COVER** (See INSTALLATION)
24. **INSTALL REAR NO. 1 SEAT ASSEMBLY** (See INSTALLATION)
25. **CONNECT REAR NO. 1 SEAT LOCK CABLE ASSEMBLY (w/ Remote Folding Function)** (See INSTALLATION)
26. **INSPECT REAR SEAT SLIDE ADJUSTER LOCK** (See INSTALLATION)
27. **INSTALL REAR SEAT LEG SIDE COVER** (See INSTALLATION)
28. **INSTALL REAR INNER TRACK BRACKET COVER** (See INSTALLATION)
29. **INSTALL REAR OUTER TRACK BRACKET COVER** (See INSTALLATION)
30. **INSTALL REAR SEAT TRACK BRACKET COVER** (See INSTALLATION)
31. **INSTALL REAR SEAT HEADREST ASSEMBLY** (See INSTALLATION)
32. **INSTALL REAR CENTER SEAT ASSEMBLY**