

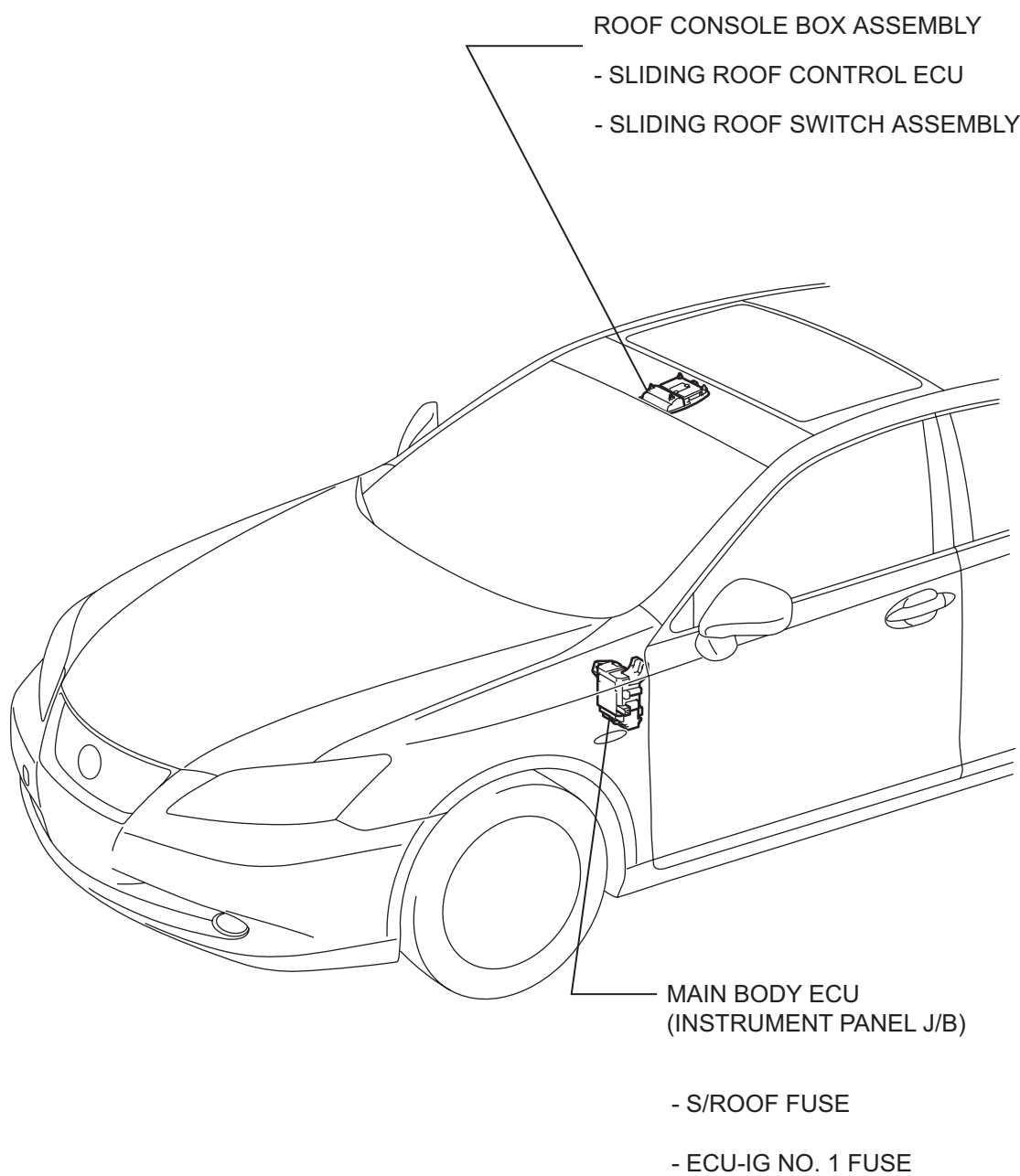
SLIDING ROOF SYSTEM

PRECAUTION

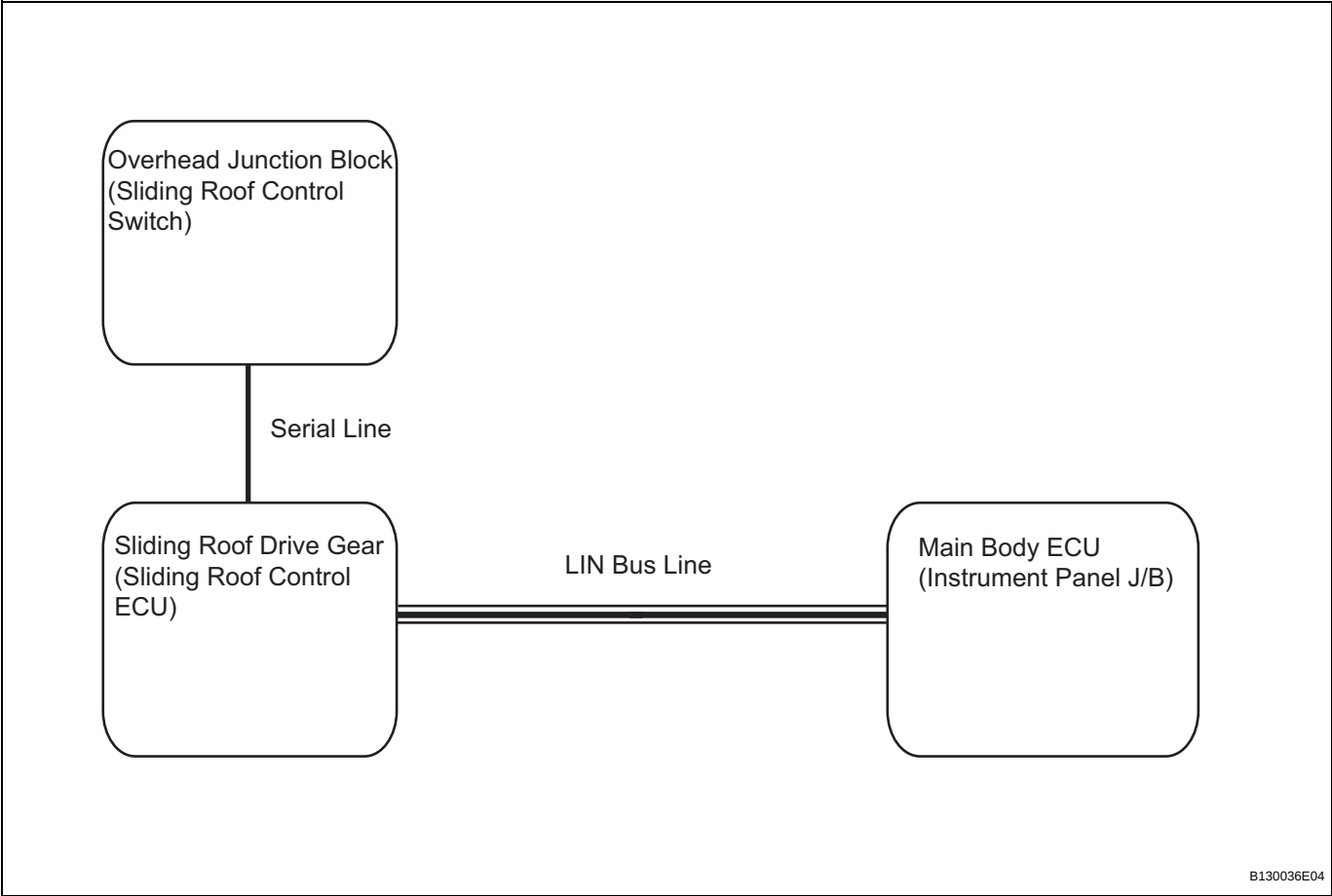
NOTICE:

Some systems need to be initialized after reconnecting the negative (-) battery terminal (See page [IN-33](#)).

PARTS LOCATION



SYSTEM DIAGRAM



Communication table

Sender	Receiver	Signal	Line
Main Body ECU (Instrument Panel J/B)	Sliding Roof Control ECU	Key-off operation signal	LIN

SYSTEM DESCRIPTION

1. GENERAL

This system has the following functions: manual slide open and close; auto slide open and close; manual tilt up and down; auto tilt up and down; jam protection; and key off operation.

2. FUNCTION OF MAIN COMPONENT

Component	Outline
Sliding Roof Drive Gear Sub-assembly (Sliding Roof Control ECU)	Sliding roof control ECU controls sliding roof motor to rotate forward and backward, which tilts or slides sliding roof glass.
Overhead Junction Block	Output of operation signals from built-in sliding roof switch to sliding roof control ECU is handled by overhead junction block.

3. SYSTEM OPERATION

The sliding roof has the following features:

Function	Outline
Manual slide open and close	This function causes sliding roof to open (or close) when OPEN/CLOSE switch is momentarily pressed. Sliding roof stops as soon as the switch is released.
Auto slide open and close	This function causes sliding roof to fully open (or close) when OPEN/CLOSE switch is momentarily pressed. Sliding roof stops as soon as the switch is released.
Manual tilt up and down	This function causes sliding roof to tilt up (or tilt down) when UP/DOWN switch is pressed for a maximum of 0.3 seconds.
Auto tilt up and down	This function enables sliding roof to tilt up (or down) when UP/DOWN switch is pressed for a minimum of 0.3 seconds.
Jam protection	The jam protection function automatically stops sliding roof, or stops sliding roof and makes it open halfway (or fully tilted up) if a foreign object gets jammed in sliding roof during auto close operation (or auto tilt down operation).
Key off operation	Key off operation function makes it possible to operate sliding roof for approximately 43 seconds after engine switch is turned off, if front doors are not opened.

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use the following procedures to troubleshoot the sliding roof system.
- *: Use the intelligent tester.

1 VEHICLE BROUGHT TO WORKSHOP

NEXT

2 INSPECT BATTERY VOLTAGE

Standard voltage:

11 to 14 V

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

NEXT

3 INSPECT COMMUNICATION FUNCTION OF CAN COMMUNICATION SYSTEM*

- (a) Using the intelligent tester, check if the CAN communication system is functioning normally.

Result

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

B

Go to CAN COMMUNICATION SYSTEM

A

4 PROBLEM SYMPTOMS TABLE

Result

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

B

Go to step 6

A

5 OVERALL ANALYSIS AND TROUBLESHOOTING*

1. Data List / Active Test (See page [RF-10](#))
2. Terminals of ECU (See page [RF-7](#))
3. On-vehicle Inspection (See page [RF-12](#))

RF

NEXT

6	ADJUST, REPAIR OR REPLACE
---	---------------------------

NEXT

7	CONFIRMATION TEST
---	-------------------

NEXT

END

CUSTOMIZE PARAMETERS

CUSTOMIZING FUNCTION WITH INTELLIGENT TESTER (REFERENCE)

HINT:

The following items can be customized.

NOTICE:

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

Sliding roof ECU

Display (Item)	Default	Contents	Setting
OPEN/DOOR KEY (Door key related OPEN)	ON	Function to manually open sliding roof linked with power window if holding driver's side and passenger's side door key for 1.5 seconds or more to unlock position when engine switch is off	ON/OFF
CLOSE/DOOR KEY (Door key related CLOSE)	ON	Function to manually close sliding roof linked with power window if holding driver's side and passenger's side door key for 1.5 seconds or more to lock position when engine switch is off	ON/OFF
OPEN/WIRELESS (Wireless key related OPEN)	ON	Function to manually open sliding roof linked with power window if pressing transmitter UNLOCK switch for 2.4 seconds or more when engine switch is off	ON/OFF
DOOR HANDLE BTN (Door Handle Lock Button)	ON	Function to close the sliding roof manually linking the power window if holding the door handle button for 1.5 seconds or more to the lock side when the engine switch is off.	ON/OFF
DOOR KEY OPER (Door key related operation)	SLIDE	Function to select tilt up or slide open of manual sliding roof operation linked with power window Activated by holding driver's side door key for 1.5 seconds or more to unlock position when engine switch is off	TILT/SLIDE
WIRELESS OPER (Wireless key related operation)	SLIDE	Function to select tilt up or slide open of manual sliding roof operation linked with power window Activated by pressing on transmitter UNLOCK switch for 2.4 seconds or more when engine switch is off	TILT/SLIDE

INITIALIZATION

1. INITIALIZE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

NOTICE:

If the sliding roof drive gear is replaced or if the battery is removed during sliding roof operation, the sliding roof drive gear will require initialization. If initialization is not performed, the following functions will not operate: auto operation and key off operation.

- (a) Turn the engine switch on (IG).
- (b) Make sure that the sliding roof is fully closed.
- (c) Push and hold the CLOSE switch or the UP switch until the following movement finishes: Tilt up → approximately 1 second → tilt down → slide open → slide closed.
- (d) Check that the sliding roof stops at the fully closed position.
- (e) Finish the initialization.
- (f) Check that the AUTO operation works normally.

NOTICE:

If the following conditions occur during initialization procedure, initialization will fail.

- Engine switch is turned off.
- Sliding roof control switch is released while sliding roof is operating.
- Vehicle speed is 5 km/h (3 mph) or more.
- Communication is cut off.
- Another switch is turned on during initialization.
- The vehicle experiences a strong vibration during initialization, such as the slamming of a door.

HINT:

- If the sliding roof cannot be fully closed or its position has become misaligned, perform initialization again.
- If the roof glass stops moving or starts moving in the opposite direction while the CLOSE or UP switch is held down, continue to hold the switch for another 10 seconds or more to return the sliding roof control ECU to an uninitialized condition. Then perform the initialization procedure again.
- If the AUTO operation function and jam protection function do not operate after the drive gear has been reset, replace the sliding roof drive gear (sliding roof ECU).

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 in the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

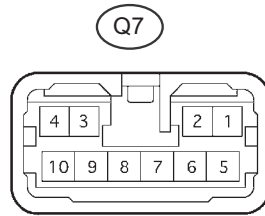
Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Sliding Roof System

Symptom	Suspected Area	See page
Sliding function and tilt function do not operate	Sliding roof ECU power source circuit	RF-29
Either sliding function or tilt function does not operate	Sliding roof control switch circuit	RF-27

TERMINALS OF ECU

1. CHECK SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)



0

B050671E37

- (a) Disconnect the Q7 ECU connector.
- (b) Measure the resistance and voltage according to the value(s) in the table below.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
B (Q7-1) - E (Q7-2)	R - W-B	+B power supply	Always	10 to 14 V
IG (Q7-5) - E (Q7-2)	B - W-B	Engine switch power supply	Engine switch off	Below 1 V
IG (Q7-5) - E (Q7-2)	B - W-B	Engine switch power supply	Engine switch on (IG)	10 to 14 V
OPN (Q7-7) - E (Q7-2)	R - W-B	Sliding roof motor open	OPEN switch OFF	10 k Ω or higher
OPN (Q7-7) - E (Q7-2)	R - W-B	Sliding roof motor open	OPEN switch ON	Below 1 Ω
CLS (Q7-9) - E (Q7-2)	B - W-B	Sliding roof motor closed	CLOSE switch OFF	10 k Ω or higher
CLS (Q7-9) - E (Q7-2)	B - W-B	Sliding roof motor closed	CLOSE switch ON	Below 1 Ω
UP (Q7-10) - E (Q7-2)	W - W-B	Sliding roof motor up	UP switch OFF	10 k Ω or higher
UP (Q7-10) - E (Q7-2)	W - W-B	Sliding roof motor up	UP switch ON	Below 1 Ω
DWN (Q7-8) - E (Q7-2)	LG - W-B	Sliding roof motor down	DOWN switch OFF	10 k Ω or higher
DWN (Q7-8) - E (Q7-2)	LG - W-B	Sliding roof motor down	DOWN switch ON	Below 1 Ω
E (Q7-2) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω

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

- (c) Reconnect the Q7 ECU connector.
- (d) Measure the voltage according to the value(s) in the table below.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
OPN (Q7-7) - E (Q7-2)	R - W-B	Sliding roof motor open	Engine switch on (IG), sliding roof closed, OPEN switch OFF	Below 1 V
OPN (Q7-7) - E (Q7-2)	R - W-B	Sliding roof motor open	Engine switch on (IG), sliding roof closed, OPEN switch ON	10 to 14 V
CLS (Q7-9) - E (Q7-2)	B - W-B	Sliding roof motor closed	Engine switch on (IG), sliding roof open, CLOSE switch OFF	Below 1 V
CLS (Q7-9) - E (Q7-2)	B - W-B	Sliding roof motor closed	Engine switch on (IG), sliding roof open, CLOSE switch ON	10 to 14 V
UP (Q7-10) - E (Q7-2)	W - W-B	Sliding roof motor up	Engine switch on (IG), sliding roof tilted downward, UP switch OFF	Below 1 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
UP (Q7-10) - E (Q7-2)	W - W-B	Sliding roof motor up	Engine switch on (IG), sliding roof tilted downward, UP switch ON	10 to 14 V
DWN (Q7-8) - E (Q7-2)	LG - W-B	Sliding roof motor down	Engine switch on (IG), sliding roof tilted upward, DOWN switch OFF	Below 1 V
DWN (Q7-8) - E (Q7-2)	LG - W-B	Sliding roof motor down	Engine switch on (IG), sliding roof tilted upward, DOWN switch ON	10 to 14 V

If the result is not as specified, the ECU may have a malfunction.

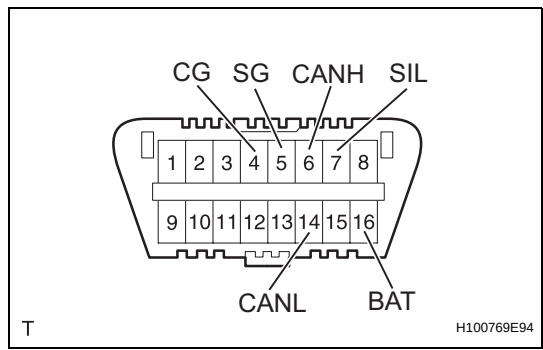
DIAGNOSIS SYSTEM

1. DESCRIPTION

- (a) Sliding roof system data and Diagnostic Trouble Codes (DTCs) can be read through the vehicle's Data Link Connector 3 (DLC3). When the system seems to be malfunctioning, use the intelligent tester to check for malfunctions and perform repairs.

2. CHECK DLC3

HINT:
The ECU uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format. If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.



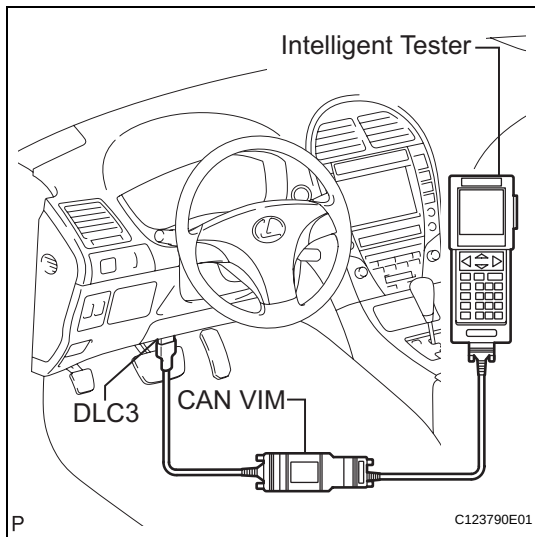
Symbols (Terminals No.)	Terminal Description	Condition	Specified Condition
SIL (7) - SG (5)	Bus "+" line	During transmission	Pulse generation
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	11 to 14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

NOTICE:

***: Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the engine switch, any other switches or the doors.**
If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

HINT:
Connect the cable of the intelligent tester to the DLC3, turn the engine switch on (IG) and attempt to use the tester. If the display indicates that a communication error has occurred, there is a problem either with the vehicle or with the tester.

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



3. INSPECT BATTERY VOLTAGE

Standard voltage:

11 to 14 V

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

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's Data List allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the Data List early in troubleshooting is one way to save time.

- Connect the intelligent tester to the DLC3.
- Turn the engine switch on (IG).
- Read the Data List according to the display on the tester.

SLIDE ROOF:

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
OPEN SW	Slide switch open signal/ON or OFF	ON: OPEN switch is pressed. OFF: OPEN switch is not pressed.	-
CLOSE SW	Slide switch close signal/ON or OFF	ON: CLOSE switch is pressed. OFF: CLOSE switch is not pressed.	-
UP SW	Tilt switch up signal/ON or OFF	ON: UP switch is pressed. OFF: UP switch is not pressed.	-
DOWN SW	Tilt switch down signal/ON or OFF	ON: DOWN switch is pressed. OFF: DOWN switch is not pressed.	-
HALL IC1 STATUS	Sliding roof operation signal/ NORMAL or LOCK	NORMAL: Sliding roof motor is operating. LOCK: Sliding roof motor is not operating.	-
HALL IC1 PULSE	Sliding roof operation signal/LO or HI	LO: Sliding roof motor is not operating. HI: Sliding roof motor is operating.	-
HALL IC2 STATUS	Sliding roof operation signal/ NORMAL or LOCK	NORMAL: Sliding roof motor is operating. LOCK: Sliding roof motor is not operating.	-
HALL IC2 PULSE	Sliding roof operation signal/LO or HI	LO: Sliding roof motor is not operating. HI: Sliding roof motor is operating.	-
D-DOOR WARN SW	Driver's door courtesy light switch signal/ON or OFF	ON: Driver's door is open. OFF: Driver's door is closed.	-
IG (MPX)	Engine switch signal (MPX signal)/ON or OFF	ON: Engine switch on (IG) OFF: Engine switch off	-
IG (DIRCT SIG)	Engine switch signal/ON or OFF	ON: Engine switch on (IG) OFF: Engine switch off	-
KEY OFF PERMS	Key-OFF sliding roof operation permit signal/ON or OFF	ON: Driver's side door is not closed within 45 sec. after engine switch is turned off. OFF: Any status except "ON" status	-
WIRELESS OPER (*1)	Wireless sliding roof operating direction signal/Tilt or Slide	TILT: Slide close direction → Tilt up direction SLIDE: Slide open direction → Tilt down direction	-
DOOR KEY OPER (*1)	Key-linked sliding roof operating direction signal/Tilt or Slide	TILT: Slide close direction → Tilt up direction SLIDE: Slide open direction → Tilt down direction	-

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
DOOR HANDLE BTN (*1)	Door handle button close signal/ Available or Not Available	Available: Door handle button close. Not Available: Any status except "Available" status.	-
OPEN /WIRELESS (*1)	Wireless sliding roof open permit signal/Available or Not Available	Available: No key is in vehicle and all doors are closed. Not Available: Any status except "Available" status.	-
CLOSE /DOOR KEY (*1)	Key-linked sliding roof close permit signal/Available or Not Available	Available: Driver's side door is not closed within 45 sec. after engine switch is turned off. Not Available: Any status except "Available" status.	-
OPEN /DOOR KEY (*1)	Key-linked sliding roof open permit signal/Available or Not Available	Available: Driver's side door is not closed within 45 sec. after engine switch is turned off. Not Available: Any status except "Available" status.	-
CURRENT DOWN SW	Down switch failure signal (Current)/Fail or Not Fail	Fail: Sliding roof tilt down signal failure (Current) Not Fail: Sliding roof tilt down signal not fail (Current)	-
CURRENT UP SW	Up switch failure signal (Current)/Fail or Not Fail	Fail: Sliding roof tilt up signal failure (Current) Not Fail: Sliding roof tilt up signal not fail (Current)	-
CURRENT CLS SW	Close switch failure signal (Current)/Fail or Not Fail	Fail: Sliding roof close signal failure (Current) Not Fail: Sliding roof close signal not fail (Current)	-
CURRENT OPN SW	Open switch failure signal (Current)/Fail or Not Fail	Fail: Sliding roof open signal failure (Current) Not Fail: Sliding roof open signal not fail (Current)	-
PAST DOWN SW	Down switch failure signal (Past)/Fail or Not Fail	Fail: Sliding roof tilt down signal failure (Past) Not Fail: Sliding roof tilt down signal not fail (Past)	-
PAST UP SW	Up switch failure signal (Past)/Fail or Not Fail	Fail: Sliding roof tilt up signal failure (Past) Not Fail: Sliding roof tilt up signal not fail (Past)	-
PAST CLS SW	Close switch failure signal (Past)/Fail or Not Fail	Fail: Sliding roof close signal failure (Past) Not Fail: Sliding roof close signal not fail (Past)	-
PAST OPN SW	Open switch failure signal (Past)/Fail or Not Fail	Fail: Sliding roof open signal failure (Past) Not Fail: Sliding roof open signal not fail (Past)	-
#CODE	Number of trouble code	Number of trouble code	-

HINT:

*1: Except multi-panel moon roof

2. PERFORM ACTIVE TEST

HINT:

Performing the intelligent tester's Active Test allows relay, VSV, actuator and other items to be operated without removing any parts. Performing the Active Test early in troubleshooting is one way to save time. The Data List can be displayed during the Active Test.

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the engine switch on (IG).
- (c) Perform the Active Test according to the display on the tester.

SLIDE ROOF:

Tester Display	Test Part	Control Range	Diagnostic Note
SLIDE ROOF	Operate sliding roof SLIDE CLOSE/TILT UP	CLOS/UP: Sliding roof SLIDE CLOSE or TILT UP operation occurs OFF: Sliding roof is not operating	-
SLIDE ROOF	Operate sliding roof SLIDE OPEN/TILT DOWN	OPN/DWN: Sliding roof SLIDE OPEN or TILT DOWN operation occurs OFF: Sliding roof is not operating	-

DIAGNOSTIC TROUBLE CODE CHART

If any trouble code is displayed during DTC check, check the circuit corresponding to the code in the table below. Proceed to the page given for the circuit.

Sliding Roof System

DTC Code	Detection Item	Trouble Area	See page
B2341	Sensor (Motor) Failure	1. Sliding roof drive gear sub-assembly (Sliding roof control ECU) 2. Roof console box assembly (Sliding roof control switch) 3. Wire harness	RF-15
B2342	Switch Failure	1. Sliding roof drive gear sub-assembly (Sliding roof control ECU) 2. Roof console box assembly (Sliding roof control switch) 3. Wire harness	RF-20
B2343	Position Initialization Incomplete	1. Sliding roof drive gear sub-assembly (Sliding roof control ECU) 2. Roof console box assembly (Sliding roof control switch) 3. Wire harness	RF-24
B2344	Position Failure	1. Sliding roof drive gear sub-assembly (Sliding roof control ECU) 2. Roof console box assembly (Sliding roof control switch) 3. Wire harness	RF-15

ON-VEHICLE INSPECTION

1. CHECK AUTO OPERATION

- (a) Turn the engine switch on (IG).
- (b) When the roof glass is fully closed, press the OPEN switch for 0.3 seconds or more. Check that the roof glass automatically slides until it is fully opened.
- (c) When the roof glass is fully open, press the CLOSE switch for 0.3 seconds or more. Check that the roof glass automatically slides until it is fully closed.
- (d) When the roof glass is fully closed, press the UP switch for 0.3 seconds or more. Check that the roof glass automatically tilts until it is fully tilted upward.
- (e) When the roof glass is fully open, press the DOWN switch for 0.3 seconds or more. Check that the roof glass automatically tilts until it is fully tilted downward.
- (f) When the auto operation is operating, check that pressing any personal light switch stops the roof glass operation.

HINT:

When pressing the switch for 0.3 seconds or less, the roof glass moves but auto operation does not operate.

2. CHECK SLIDING ROOF OPERATION AFTER ENGINE SWITCH IS TURNED OFF

- (a) Turn the engine switch from on (IG) to off, and check that the sliding roof operates. Then open and close the driver's side door once, and check that the sliding roof does not operate.
- (b) Turn the engine switch from on (IG) to off and wait for approximately 43 seconds. Check that the sliding roof does not operate.
- (c) Operate the auto (SLIDE OPEN/CLOSE or TILT UP/DOWN) operation. While the roof glass is in motion, turn the engine switch from on (IG) to off. Check that the auto operation continues until the roof glass opens or closes fully.

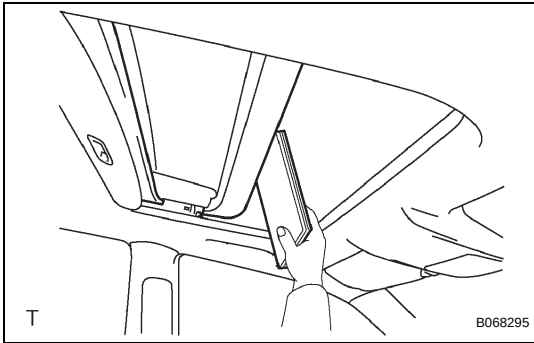
3. CHECK JAM PROTECTION FUNCTION

CAUTION:

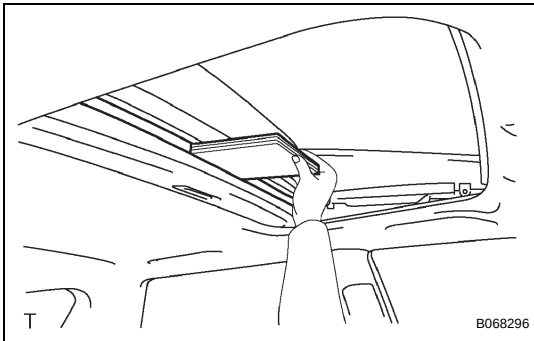
- Do not use a part of your body, for example, your hand, to check the jam protection.
- Do not allow anything to become caught in the sliding roof by accident in this procedure.
- Perform the inspection from the inside of the vehicle.

NOTICE:

- Do not use hard objects such as a hammer, to avoid damage to the roof.
- If the jam protection does not operate, reset the sliding roof drive gear (motor).



- (a) When the sliding roof auto operation is operating and an object is caught between the vehicle body and glass, check that the roof glass opens 218 mm (8.58 in.) from the point of contact with the object, or opens fully if there is not an opening distance of 218 mm (8.58 in.).



- (b) When the TILT UP/DOWN function is operating, and an object is caught between the vehicle body and the roof glass, check that the sliding roof tilts up fully.

DTC	B2341	Sensor (Motor) Failure
------------	--------------	-------------------------------

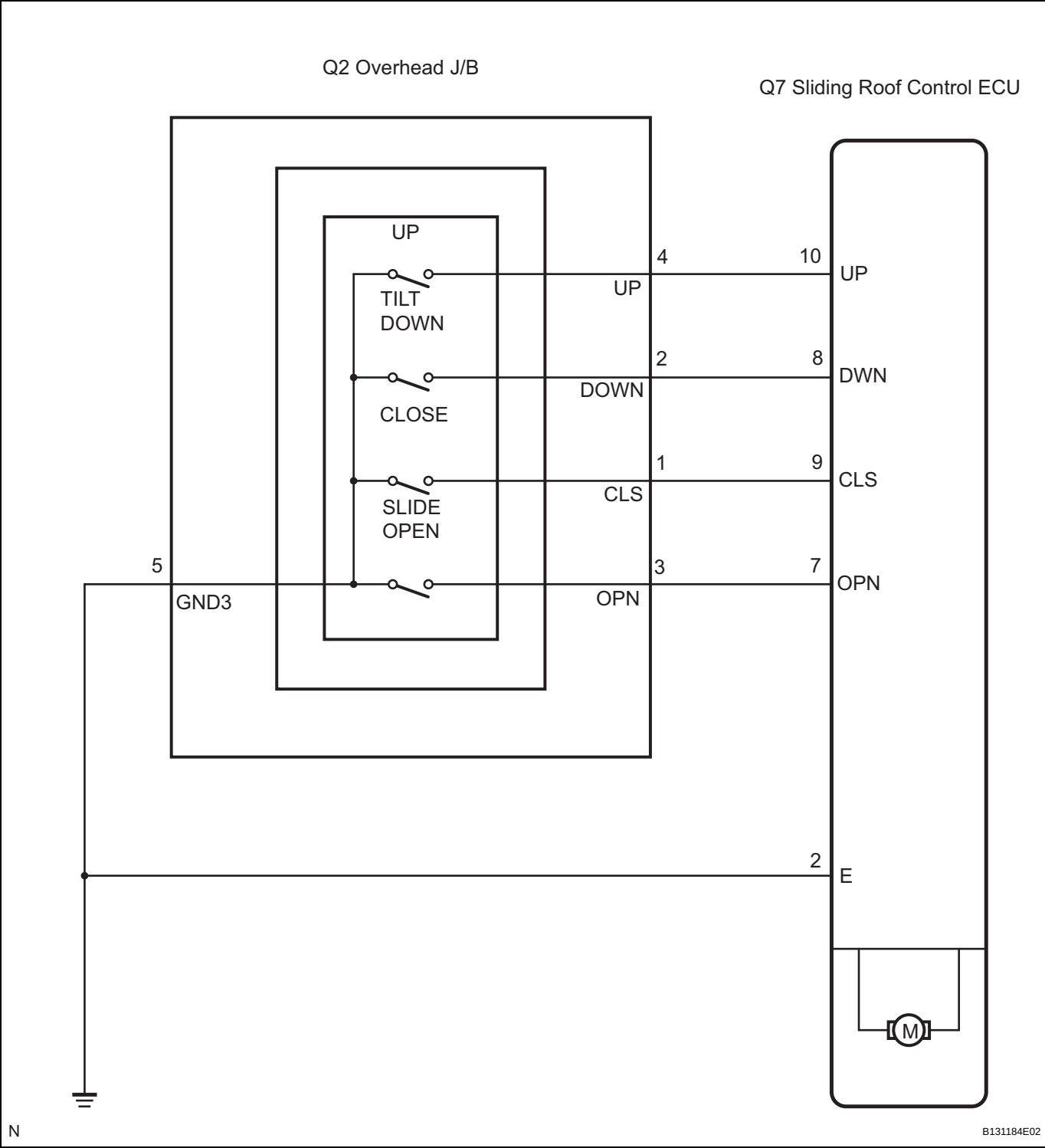
DTC	B2344	Position Failure
------------	--------------	-------------------------

DESCRIPTION

When the sliding roof drive gear sub-assembly (sliding roof control ECU) detects malfunctions in the motor, and the sliding roof operation is stopped, DTC B2341 is output. When the sliding roof drive gear sub-assembly (sliding roof control ECU) detects malfunctions in the gear, and the sliding roof operation is stopped, DTC B2344 is output.

DTC No.	DTC Detection Condition	Trouble Area
B2341	Sensor (motor) Failure	- Sliding roof drive gear sub-assembly (sliding roof control ECU) - Roof console box assembly (sliding roof control switch) - Wire harness
B2344	Position Failure	- Sliding roof drive gear sub-assembly (sliding roof control ECU) - Roof console box assembly (sliding roof control switch) - Wire harness

WIRING DIAGRAM



RF

INSPECTION PROCEDURE

1	CHECK SLIDING ROOF FUNCTION
---	-----------------------------

- (a) Check the auto operation with the OPEN, DOWN, CLOSE and UP switches (See page [RF-12](#)).

OK:
Auto operation operates normally with OPEN,
DOWN, CLOSE and UP switches.

NG Go to step 3

OK

2 DELETE DTC

(a) Delete the DTCs (See page [RF-9](#)).

NEXT

END

3 INITIALIZE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

(a) Check that the sliding roof drive gear sub-assembly can be initialized (See page [RF-6](#)).

OK:
Sliding roof drive gear sub-assembly can be initialized.

NG Go to step 6

OK

4 CHECK SLIDING ROOF FUNCTION

(a) Check the auto operation with the OPEN, DOWN, CLOSE and UP switches (See page [RF-12](#)).

OK:
Auto operation operates normally with OPEN, DOWN, CLOSE and UP switches.

NG REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

OK

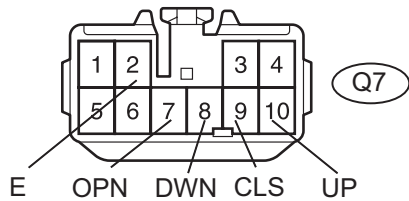
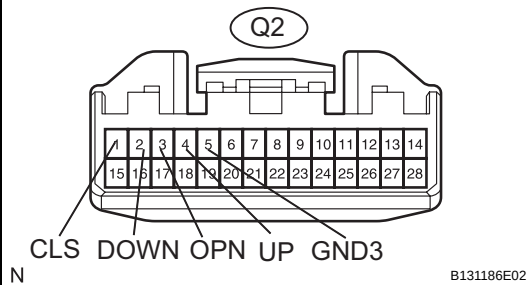
RF

5 DELETE DTC

(a) Delete the DTCs (See page [RF-9](#)).

NEXT

END

6**CHECK WIRE HARNESS (SLIDING ROOF CONTROL ECU - ROOF CONSOLE BOX ASSEMBLY)****Sliding Roof Control ECU Connector:****Roof Console Box Assembly Connector:**

- (a) Disconnect the Q7 and Q2 connectors.
 (b) Measure the resistance according to the value(s) in the table below.

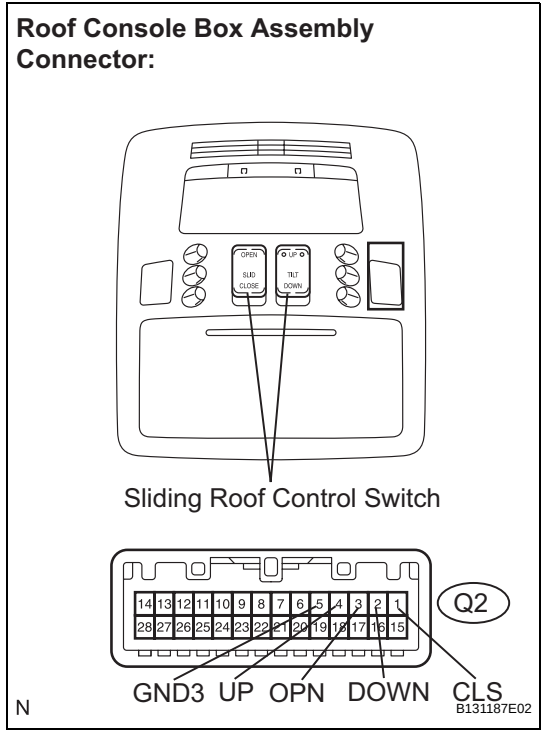
Standard resistance

Tester Connection	Condition	Specified Condition
Q7-2 (E) - Q2-5 (GND3)	Always	Below 1 Ω
Q7-7 (OPN) - Q2-3 (OPN)	Always	Below 1 Ω
Q7-8 (DWN) - Q2-2 (DOWN)	Always	Below 1 Ω
Q7-9 (CLS) - Q2-1 (CLS)	Always	Below 1 Ω
Q7-10 (UP) - Q2-4 (UP)	Always	Below 1 Ω
Q2-1 (CLS) - Body ground	Always	10 k Ω or higher
Q2-2 (DOWN) - Body ground	Always	10 k Ω or higher
Q2-3 (OPN) - Body ground	Always	10 k Ω or higher
Q2-4 (UP) - Body ground	Always	10 k Ω or higher
Q2-5 (GND3) - Body ground	Always	Below 1 Ω

NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

7

INSPECT ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)



- (a) Remove the roof console box assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Switch Position	Specified Condition
Q2-1 (CLS) - Q2-5 (GND3)	CLOSE	Below 100 Ω
Q2-2 (DOWN) - Q2-5 (GND3)	DOWN	Below 100 Ω
Q2-3 (OPN) - Q2-5 (GND3)	OPEN	Below 100 Ω
Q2-4 (UP) - Q2-5 (GND3)	UP	Below 100 Ω
Q2-1 (CLS) - Q2-5 (GND3)	OPEN	1 kΩ or higher
Q2-2 (DOWN) - Q2-5 (GND3)	CLOSE	1 kΩ or higher
Q2-3 (OPN) - Q2-5 (GND3)	UP	1 kΩ or higher
Q2-4 (UP) - Q2-5 (GND3)	DOWN	1 kΩ or higher

NG

REPLACE ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)

OK

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

DTC**B2342****Switch Failure****DESCRIPTION**

This DTC is output when the sliding roof drive gear sub-assembly (sliding roof control ECU) detects that the OPEN, CLOSE, UP or DOWN switch in the roof console box assembly (sliding roof control switch) is stuck for 30 seconds or more.

DTC No.	DTC Detection Condition	Trouble Area
B2342	Sliding roof drive gear sub-assembly (sliding roof control ECU) detects OPEN, CLOSE, UP or DOWN switch in overhead junction block is stuck for 30 seconds or more	- Sliding roof drive gear sub-assembly (sliding roof control ECU) - Roof console box assembly (sliding roof control switch) - Wire harness

WIRING DIAGRAM

Refer to DTC B2341 (See page [RF-16](#)).

INSPECTION PROCEDURE**1****READ VALUE OF INTELLIGENT TESTER (SLIDE OPEN AND TILT UP SWITCH)**

- (a) Use the DATA LIST to check if the sliding roof switch is functioning properly.

Sliding roof ECU

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
OPEN SW	Slide switch open signal/ON or OFF	ON: OPEN switch is pressed. OFF: OPEN switch is not pressed.	-
CLOSE SW	Slide switch close signal/ON or OFF	ON: CLOSE switch is pressed. OFF: CLOSE switch is not pressed.	-
UP SW	Tilt switch up signal/ON or OFF	ON: UP switch is pressed. OFF: UP switch is not pressed.	-
DOWN SW	Tilt switch down signal/ON or OFF	ON: DOWN switch is pressed. OFF: DOWN switch is not pressed.	-

OK:

The intelligent tester displays as shown in the table according to the operation of each switch.

NG**Go to step 4****OK****2****CHECK SLIDING ROOF FUNCTION**

- (a) Check the auto operation with the OPEN, CLOSE, UP and DOWN switches (See page [RF-12](#)).

OK:

Auto operation operates normally with OPEN, CLOSE, UP and DOWN switches.

NG**Go to step 7****RF**

OK

3

DELETE DTC

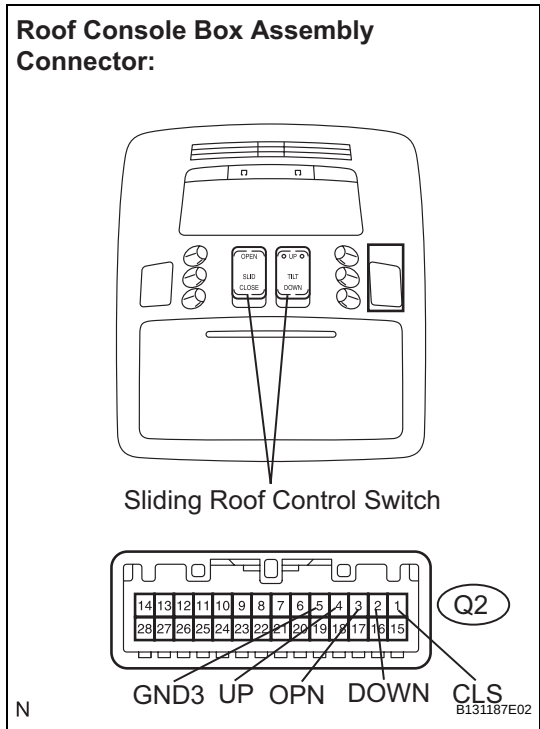
- (a) Delete the DTCs (See page [RF-9](#)).

NEXT

END

4

INSPECT ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)



- (a) Remove the roof console box assembly.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Switch Position	Specified Condition
Q2-1 (CLS) - Q2-5 (GND3)	CLOSE	Below 100 Ω
Q2-2 (DOWN) - Q2-5 (GND3)	DOWN	Below 100 Ω
Q2-3 (OPN) - Q2-5 (GND3)	OPEN	Below 100 Ω
Q2-4 (UP) - Q2-5 (GND3)	UP	Below 100 Ω
Q2-1 (CLS) - Q2-5 (GND3)	OPEN	1 kΩ or higher
Q2-2 (DOWN) - Q2-5 (GND3)	CLOSE	1 kΩ or higher
Q2-3 (OPN) - Q2-5 (GND3)	UP	1 kΩ or higher
Q2-4 (UP) - Q2-5 (GND3)	DOWN	1 kΩ or higher

OK

Go to step 10

NG

5

REPLACE ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)

- (a) Temporarily replace the roof console box assembly (sliding roof control switch) with a new one or normally functioning one (See page [LI-160](#)).

NEXT

6

DELETE DTC

- (a) Delete the DTCs (See page [RF-9](#)).

NEXTEND

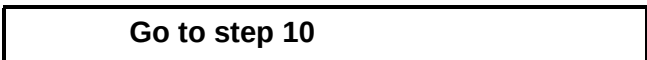
7

INITIALIZE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

- (a) Check that the sliding roof drive gear sub-assembly can be initialized (See page [RF-6](#)).

OK:

Sliding roof drive gear sub-assembly can be initialized.

NGGo to step 10OK

8

CHECK SLIDING ROOF FUNCTION

- (a) Check the auto operation with the OPEN, CLOSE, UP and DOWN switches (See page [RF-12](#)).

OK:

Auto operation operates normally with OPEN, CLOSE, UP and DOWN switches.

NGREPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)OK

9

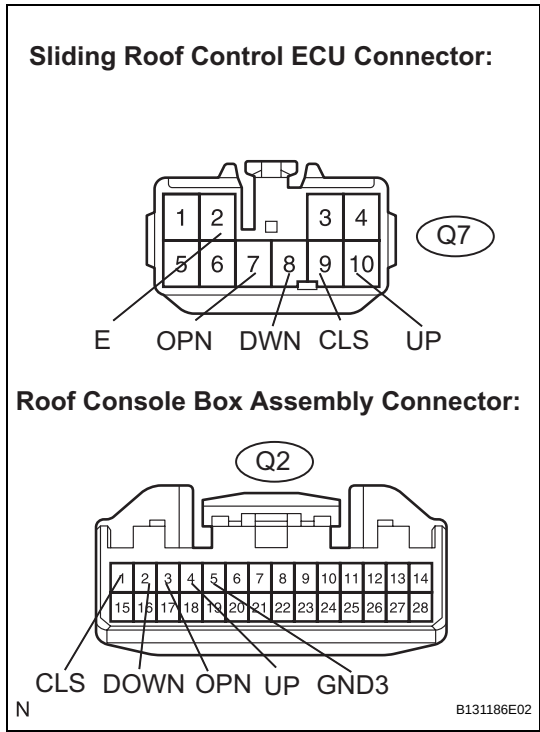
DELETE DTC

- (a) Delete the DTCs (See page [RF-9](#)).

NEXTEND

10

CHECK WIRE HARNESS (SLIDING ROOF CONTROL ECU - ROOF CONSOLE BOX ASSEMBLY)



- (a) Disconnect the Q7 and Q2 connectors.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
Q7-2 (E) - Q2-5 (GND3)	Always	Below 1 Ω
Q7-7 (OPN) - Q2-3 (OPN)	Always	Below 1 Ω
Q7-8 (DWN) - Q2-2 (DOWN)	Always	Below 1 Ω
Q7-9 (CLS) - Q2-1 (CLS)	Always	Below 1 Ω
Q7-10 (UP) - Q2-4 (UP)	Always	Below 1 Ω
Q2-1 (CLS) - Body ground	Always	10 kΩ or higher
Q2-2 (DOWN) - Body ground	Always	10 kΩ or higher
Q2-3 (OPN) - Body ground	Always	10 kΩ or higher
Q2-4 (UP) - Body ground	Always	10 kΩ or higher
Q2-5 (GND3) - Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

DTC**B2343****Position Initialization Incomplete****DESCRIPTION**

This DTC is output when the sliding roof drive gear sub-assembly (sliding roof control ECU) has not been initialized.

DTC No.	DTC Detection Condition	Trouble Area
B2343	Sliding roof drive gear sub-assembly (sliding roof control ECU) has not been initialized	- Sliding roof drive gear sub-assembly (sliding roof control ECU) - Roof console box assembly (sliding roof control switch) - Wire harness

WIRING DIAGRAM

Refer to DTC B2341 (See page [RF-16](#)).

INSPECTION PROCEDURE**1****INITIALIZE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)**

- (a) Check that the sliding roof drive gear sub-assembly can be initialized (See page [RF-6](#)).

OK:

Sliding roof drive gear sub-assembly can be initialized.

NG**Go to step 3****OK****2****CHECK SLIDING ROOF FUNCTION**

- (a) Check the auto operation with the OPEN, CLOSE, UP and DOWN switches (See page [RF-12](#)).

OK:

Auto operation operates normally with OPEN, CLOSE, UP and DOWN switches.

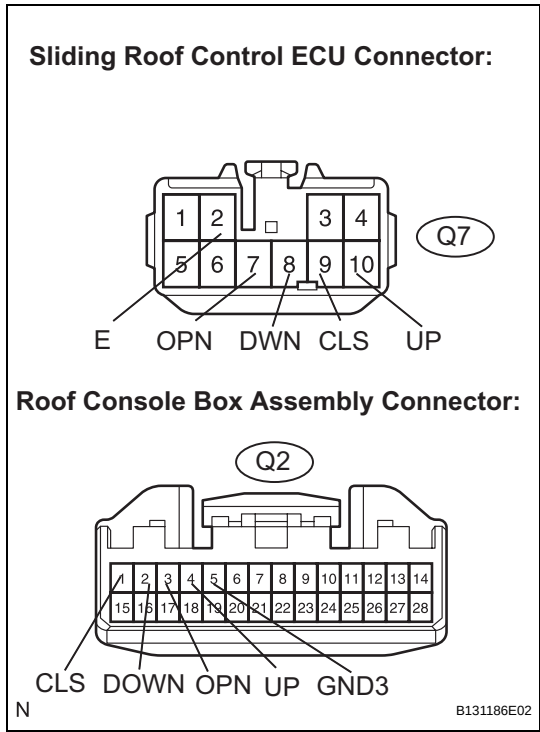
NG

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

OK**END****RF**

3

CHECK WIRE HARNESS (SLIDING ROOF DRIVE GEAR - OVERHEAD JUNCTION BLOCK)



- (a) Disconnect the Q7 and Q2 connectors.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

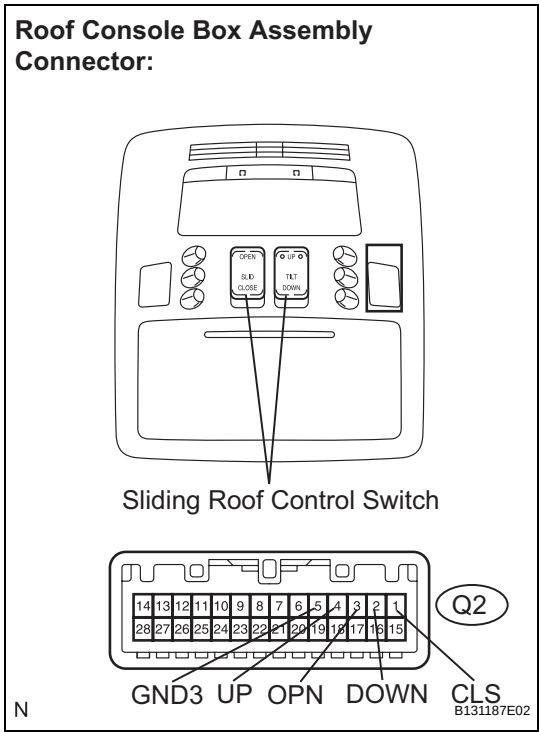
Tester Connection	Condition	Specified Condition
Q7-2 (E) - Q2-5 (GND3)	Always	Below 1 Ω
Q7-7 (OPN) - Q2-3 (OPN)	Always	Below 1 Ω
Q7-8 (DWN) - Q2-2 (DOWN)	Always	Below 1 Ω
Q7-9 (CLS) - Q2-1 (CLS)	Always	Below 1 Ω
Q7-10 (UP) - Q2-4 (UP)	Always	Below 1 Ω
Q2-1 (CLS) - Body ground	Always	10 kΩ or higher
Q2-2 (DOWN) - Body ground	Always	10 kΩ or higher
Q2-3 (OPN) - Body ground	Always	10 kΩ or higher
Q2-4 (UP) - Body ground	Always	10 kΩ or higher
Q2-5 (GND3) - Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4 INSPECT ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)



- (a) Remove the roof console box assembly.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Switch Position	Specified Condition
Q2-1 (CLS) - Q2-5 (GND3)	CLOSE	Below 100 Ω
Q2-2 (DOWN) - Q2-5 (GND3)	DOWN	Below 100 Ω
Q2-3 (OPN) - Q2-5 (GND3)	OPEN	Below 100 Ω
Q2-4 (UP) - Q2-5 (GND3)	UP	Below 100 Ω
Q2-1 (CLS) - Q2-5 (GND3)	OPEN	1 k Ω or higher
Q2-2 (DOWN) - Q2-5 (GND3)	CLOSE	1 k Ω or higher
Q2-3 (OPN) - Q2-5 (GND3)	UP	1 k Ω or higher
Q2-4 (UP) - Q2-5 (GND3)	DOWN	1 k Ω or higher

NG

REPLACE ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)

OK

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

Sliding Roof Control Switch Circuit

DESCRIPTION

The sliding roof drive gear sub-assembly (sliding roof control ECU) receives slide switch and tilt switch signals and drives its built-in motor.

WIRING DIAGRAM

Refer to DTC B2341 (See page [RF-16](#)).

INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (SLIDING ROOF OPERATION)

- (a) Select the ACTIVE TEST, use the intelligent tester to generate a control command, and then check that the sliding roof slides open/close and tilts up/down.

SLIDE ROOF

Tester Display	Test Part	Control Range	Diagnostic Note
SLIDE ROOF	Operate sliding roof SLIDE CLOSE/TILT UP	CLOS/UP: Sliding roof SLIDE CLOSE or TILT UP operation occurs OFF: Sliding roof is not operating	-
SLIDE ROOF	Operate sliding roof SLIDE OPEN/TILT DOWN	OPN/DWN: Sliding roof SLIDE OPEN or TILT DOWN operation occurs OFF: Sliding roof is not operating	-

OK:

Sliding roof operates normally.

NG

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

OK

2 READ VALUE OF INTELLIGENT TESTER (SLIDING ROOF SWITCH)

- (a) Use the DATA LIST to check if the sliding roof switch is functioning properly.

SLIDE ROOF

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
OPEN SW	Slide switch open signal/ON or OFF	ON: OPEN switch is pressed. OFF: OPEN switch is not pressed.	-
CLOSE SW	Slide switch close signal/ON or OFF	ON: CLOSE switch is pressed. OFF: CLOSE switch is not pressed.	-
UP SW	Tilt switch up signal/ON or OFF	ON: UP switch is pressed. OFF: UP switch is not pressed.	-
DOWN SW	Tilt switch down signal/ON or OFF	ON: DOWN switch is pressed. OFF: DOWN switch is not pressed.	-

OK:

The intelligent tester displays as shown in the table according to the operation of each switch.

OK

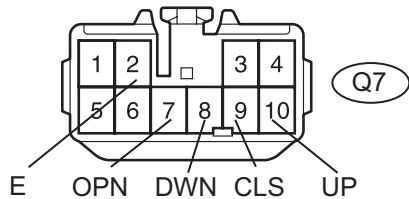
REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

NG

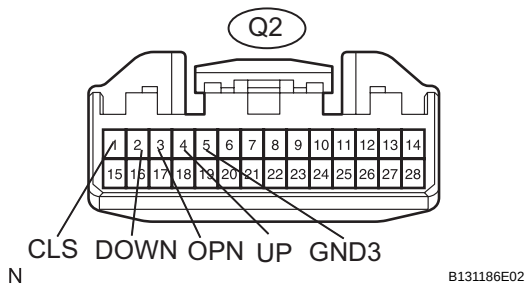
3

CHECK WIRE HARNESS (SLIDING ROOF CONTROL ECU - ROOF CONSOLE BOX ASSEMBLY)

Sliding Roof Control ECU Connector:



Roof Console Box Assembly Connector:



- (a) Disconnect the Q7 and Q2 connectors.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
Q7-2 (E) - Q2-5 (GND3)	Always	Below 1 Ω
Q7-7 (OPN) - Q2-3 (OPN)	Always	Below 1 Ω
Q7-8 (DWN) - Q2-2 (DOWN)	Always	Below 1 Ω
Q7-9 (CLS) - Q2-1 (CLS)	Always	Below 1 Ω
Q7-10 (UP) - Q2-4 (UP)	Always	Below 1 Ω
Q2-1 (CLS) - Body ground	Always	10 k Ω or higher
Q2-2 (DOWN) - Body ground	Always	10 k Ω or higher
Q2-3 (OPN) - Body ground	Always	10 k Ω or higher
Q2-4 (UP) - Body ground	Always	10 k Ω or higher
Q2-5 (GND3) - Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

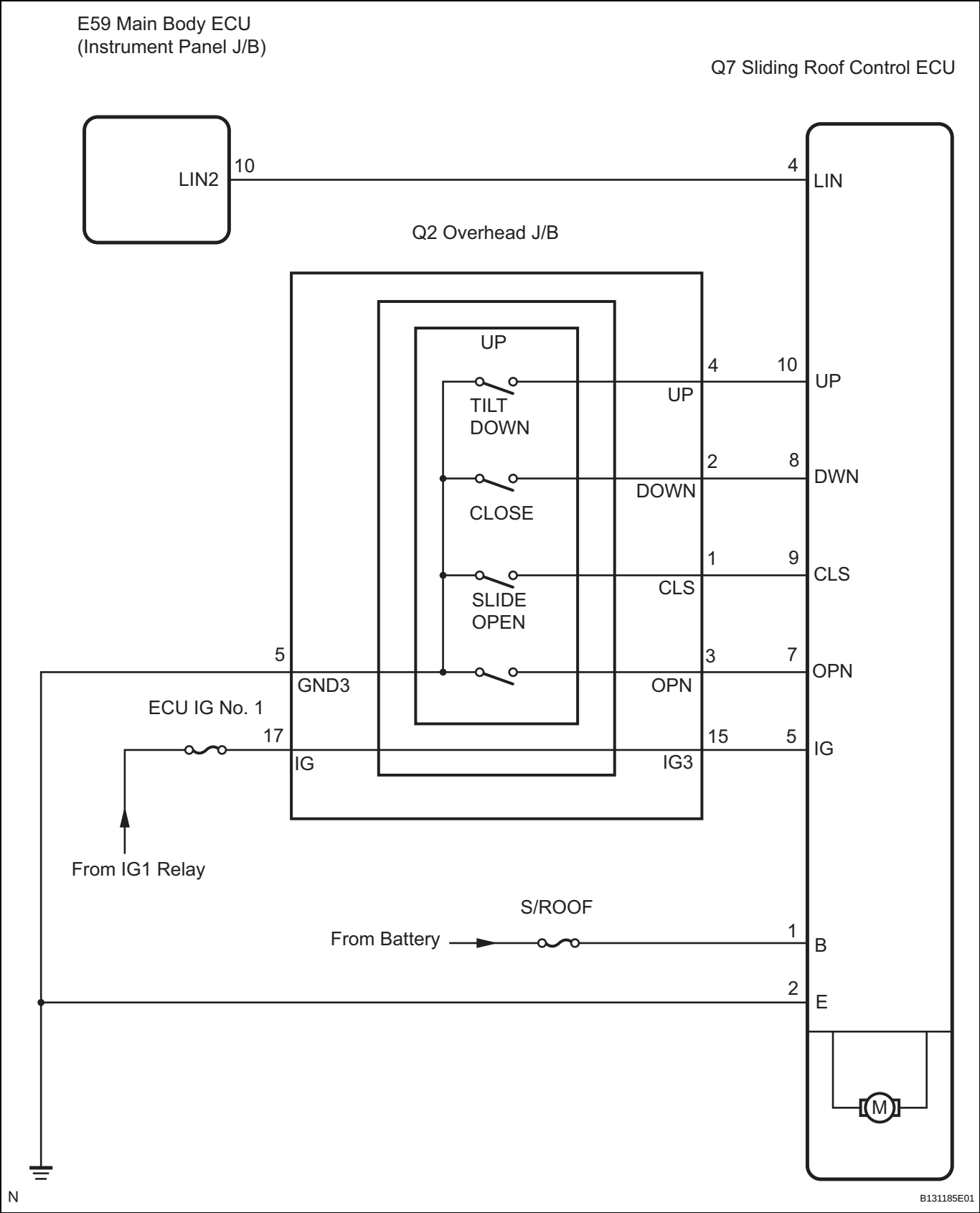
REPLACE ROOF CONSOLE BOX ASSEMBLY (SLIDING ROOF CONTROL SWITCH)

Sliding Roof ECU Power Source Circuit

DESCRIPTION

The sliding roof drive gear sub-assembly (sliding roof control ECU) receives signals from the sliding roof switch and activates the sliding roof. However, malfunctions in the fuse, wire harness or sliding roof drive gear sub-assembly (sliding roof control ECU) may cause the sliding roof system to stop operating.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (SLIDING ROOF OPERATION)

- (a) Select the ACTIVE TEST, use the intelligent tester to generate a control command, and then check that the sliding roof slides open/close and tilts up/down.

SLIDE ROOF

Tester Display	Test Part	Control Range	Diagnostic Note
SLIDE ROOF	Operate sliding roof SLIDE CLOSE/TILT UP	CLOS/UP: Sliding roof SLIDE CLOSE or TILT UP operation occurs OFF: Sliding roof is not operating	-
SLIDE ROOF	Operate sliding roof SLIDE OPEN/TILT DOWN	OPN/DWN: Sliding roof SLIDE OPEN or TILT DOWN operation occurs OFF: Sliding roof is not operating	-

OK:

Sliding roof operates normally.

NG**Go to step 2****OK****REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)****2 INSPECT FUSE (S/ROOF, ECU IG NO. 1)**

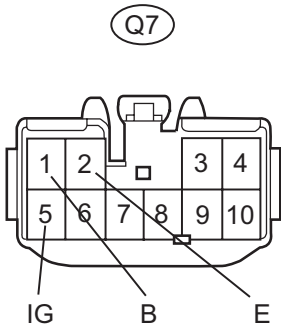
- (a) Remove the S/ROOF and ECU IG No. 1 fuses from the instrument panel J/B.
(b) Measure the resistance of the fuses.

Standard resistance:**Below 1 Ω** **NG****REPLACE FUSE****OK**

3

CHECK WIRE HARNESS (SLIDING ROOF CONTROL ECU - BATTERY AND BODY GROUND)

Sliding Roof Control ECU Connector:



B130117E06

- (a) Disconnect the Q7 connector.
- (b) Measure the voltage and resistance according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
B (Q7-1) - Body ground	Always	10 to 14 V
IG (Q7-5) - Body ground	Engine switch on (IG)	10 to 14 V
IG (Q7-5) - Body ground	Engine switch off	Below 1 V

Standard resistance

Tester Connection	Specified Condition
E (Q7-2) - Body ground	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

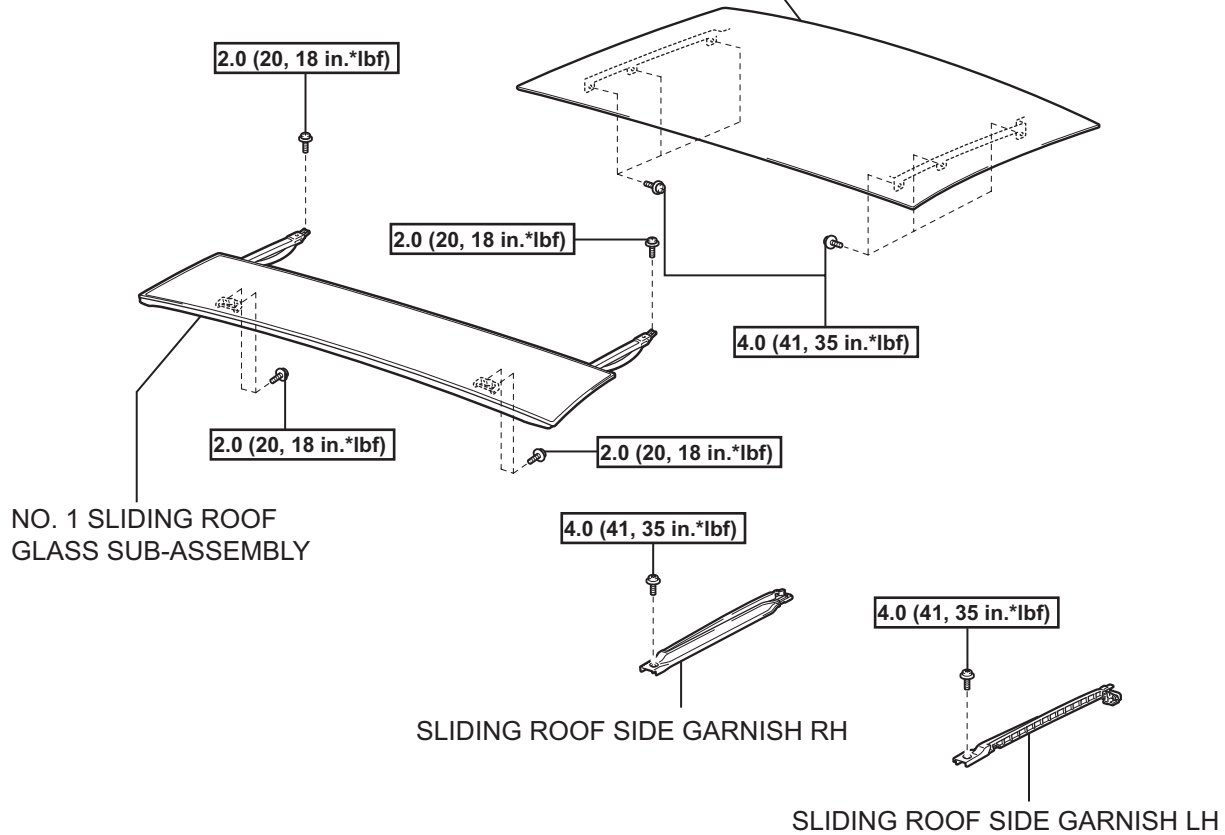
OK

REPLACE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY (SLIDING ROOF CONTROL ECU)

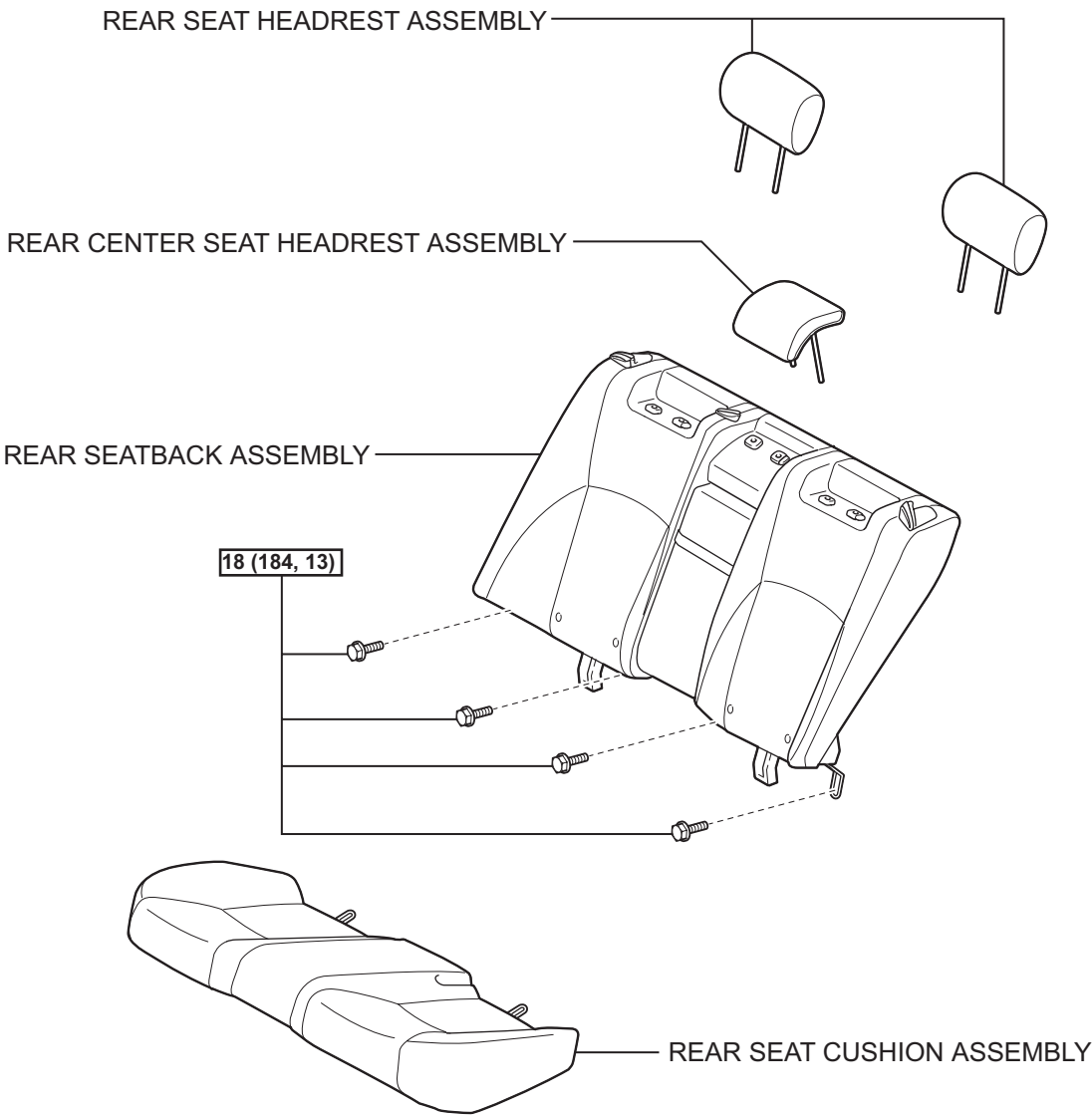
SLIDING ROOF HOUSING (for Glass Roof)

COMPONENTS

NO. 2 SLIDING ROOF GLASS SUB-ASSEMBLY

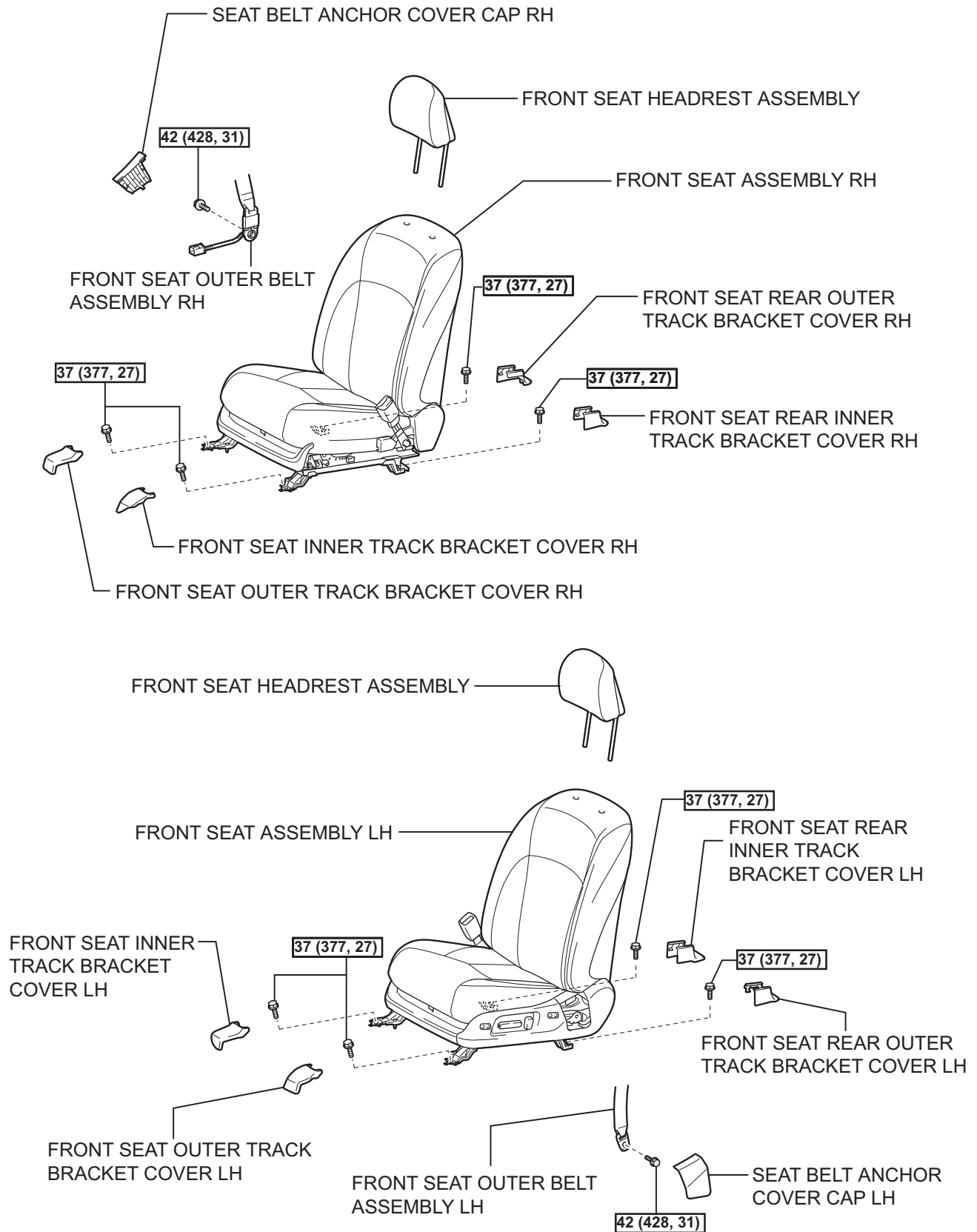


$\text{N}\cdot\text{m}$ (kgf $\cdot\text{cm}$, ft. $\cdot\text{lbf}$): Specified torque



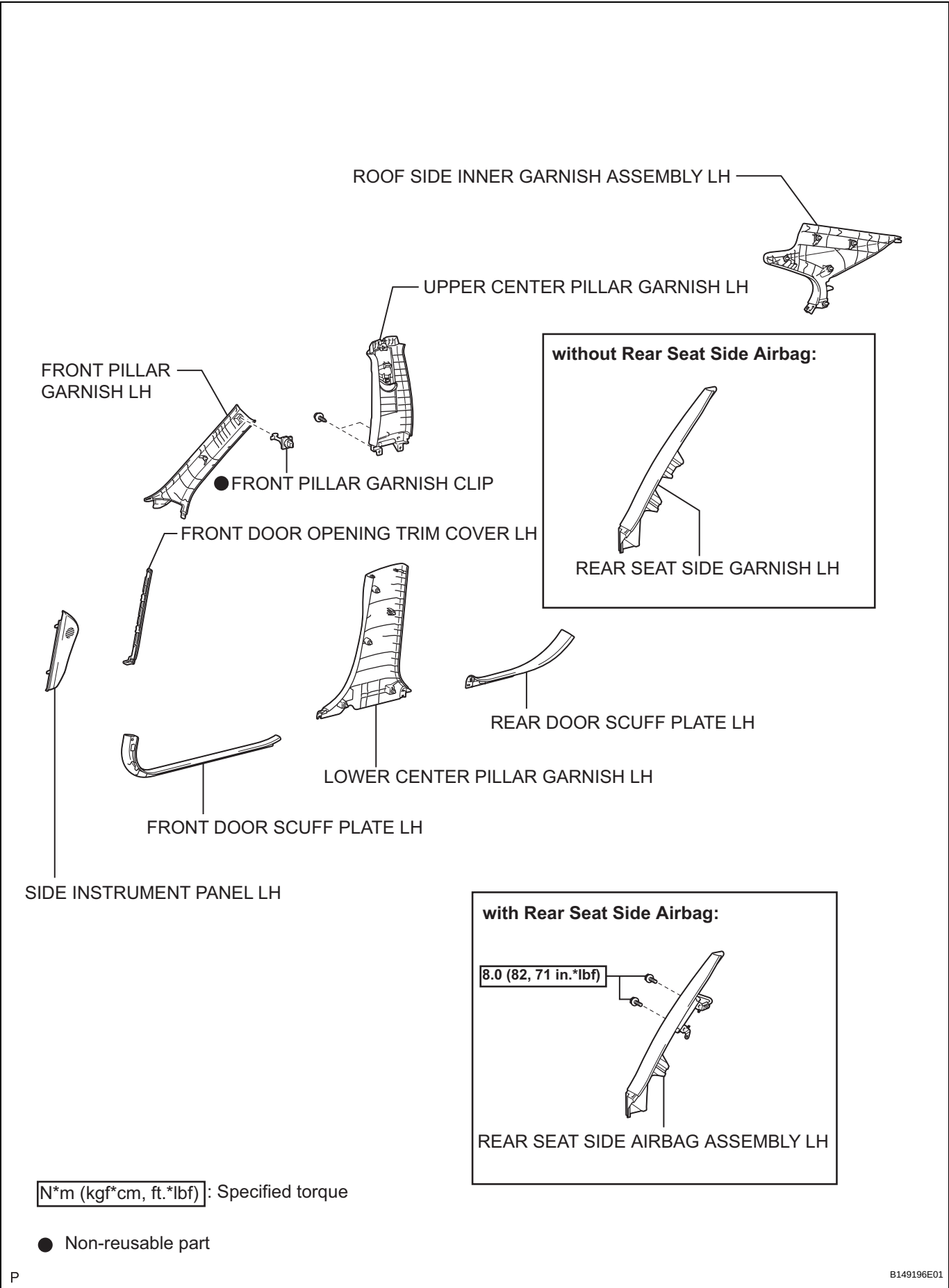
RF

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

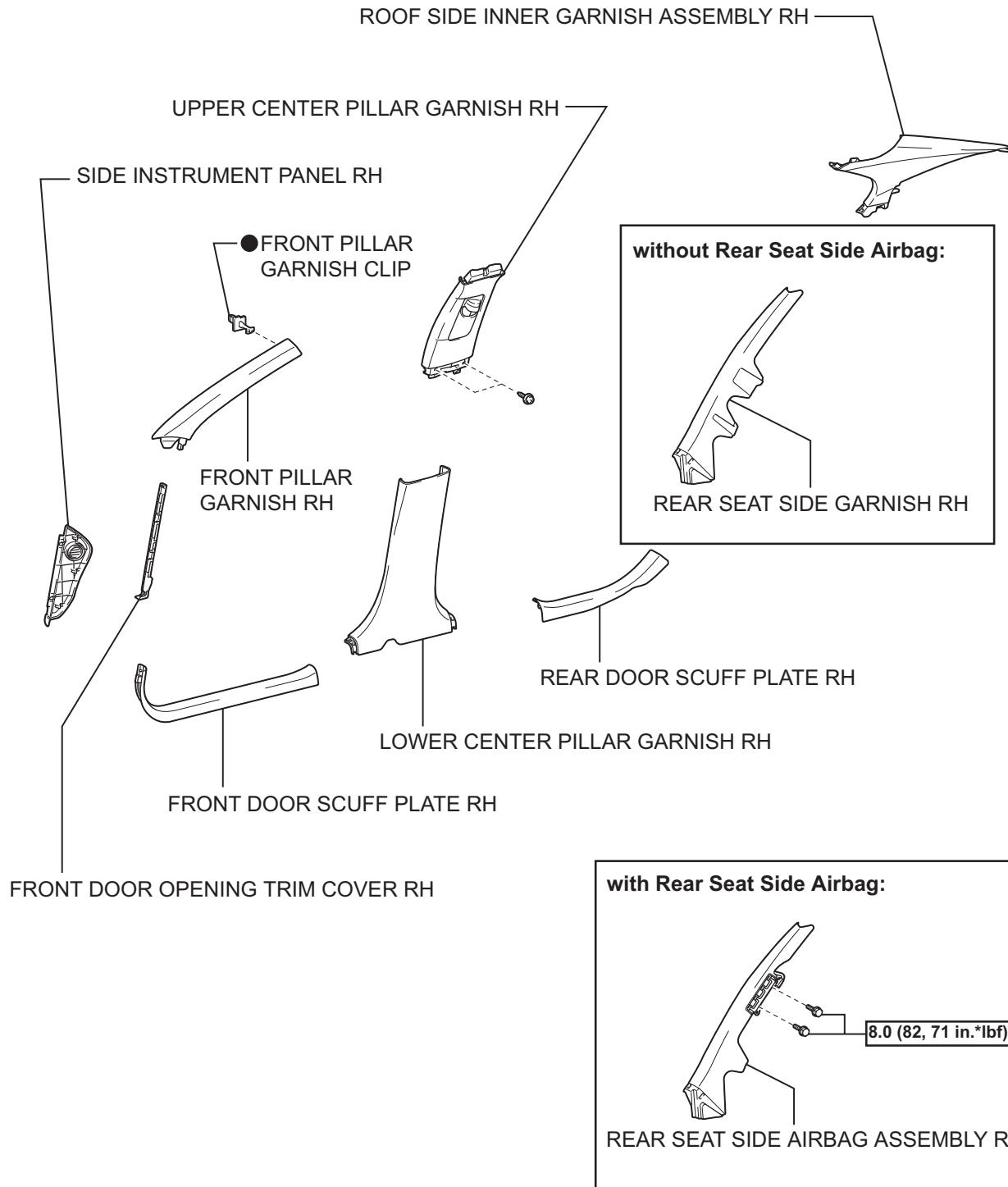


N*m (kgf*cm, ft.*lbf) : Specified torque

RF



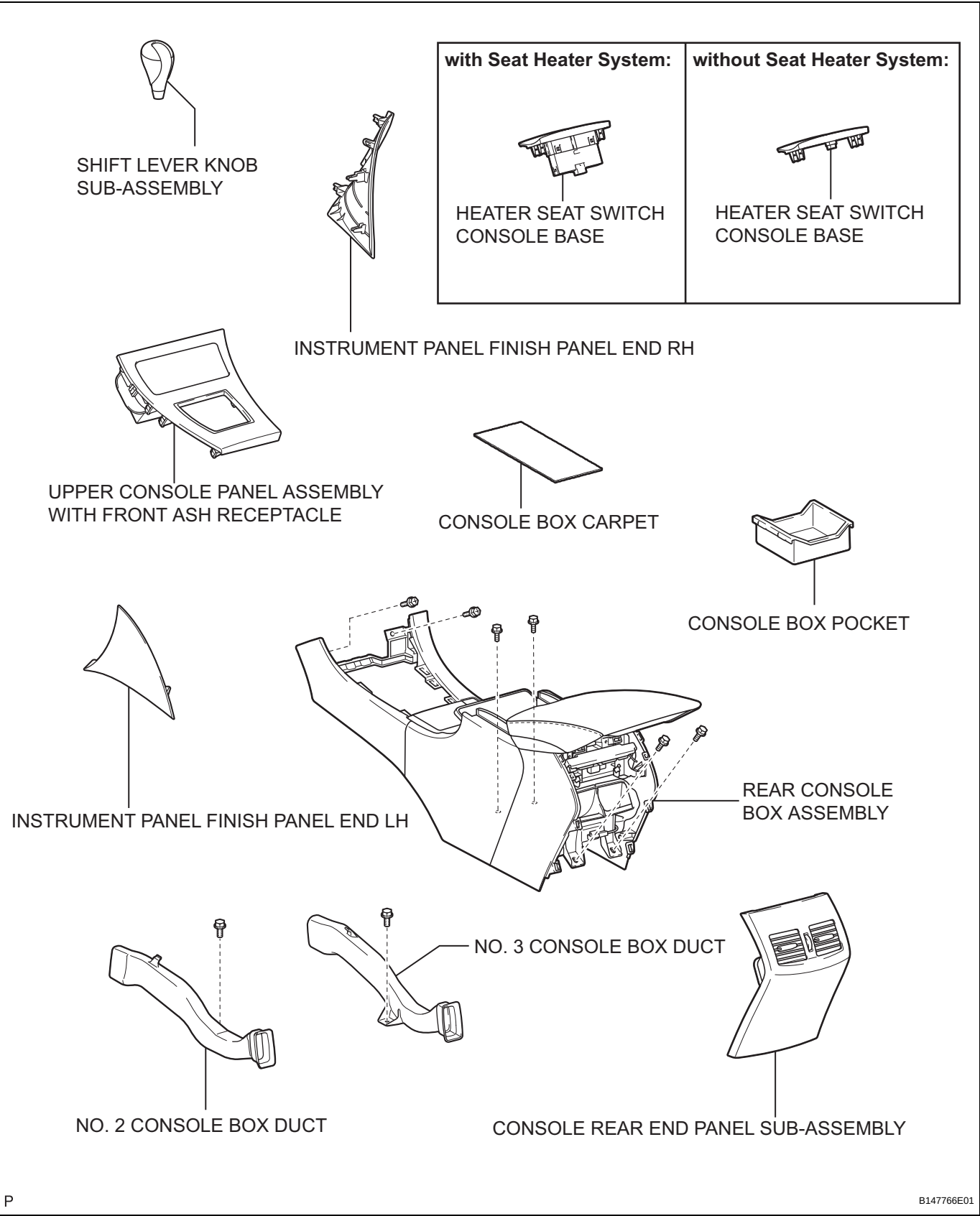
RF



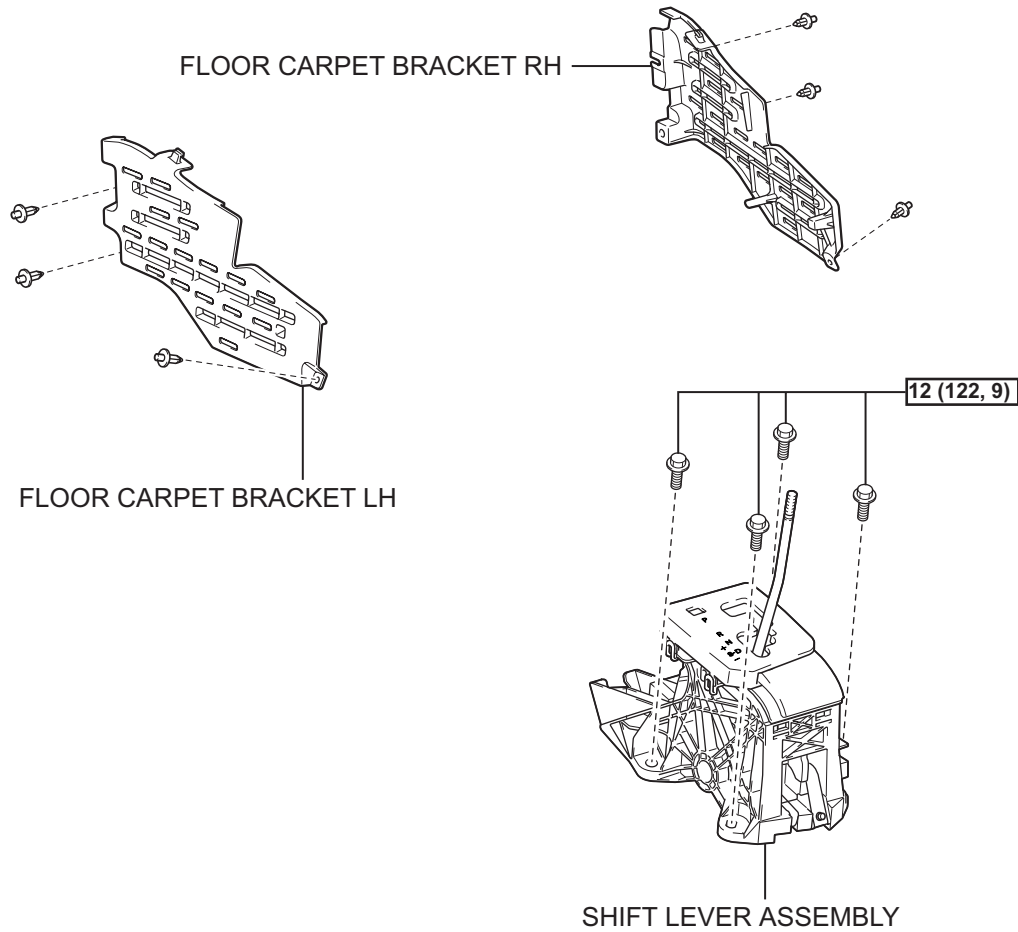
[N*m (kgf*cm, ft.*lbf)]: Specified torque

● Non-reusable part

RF

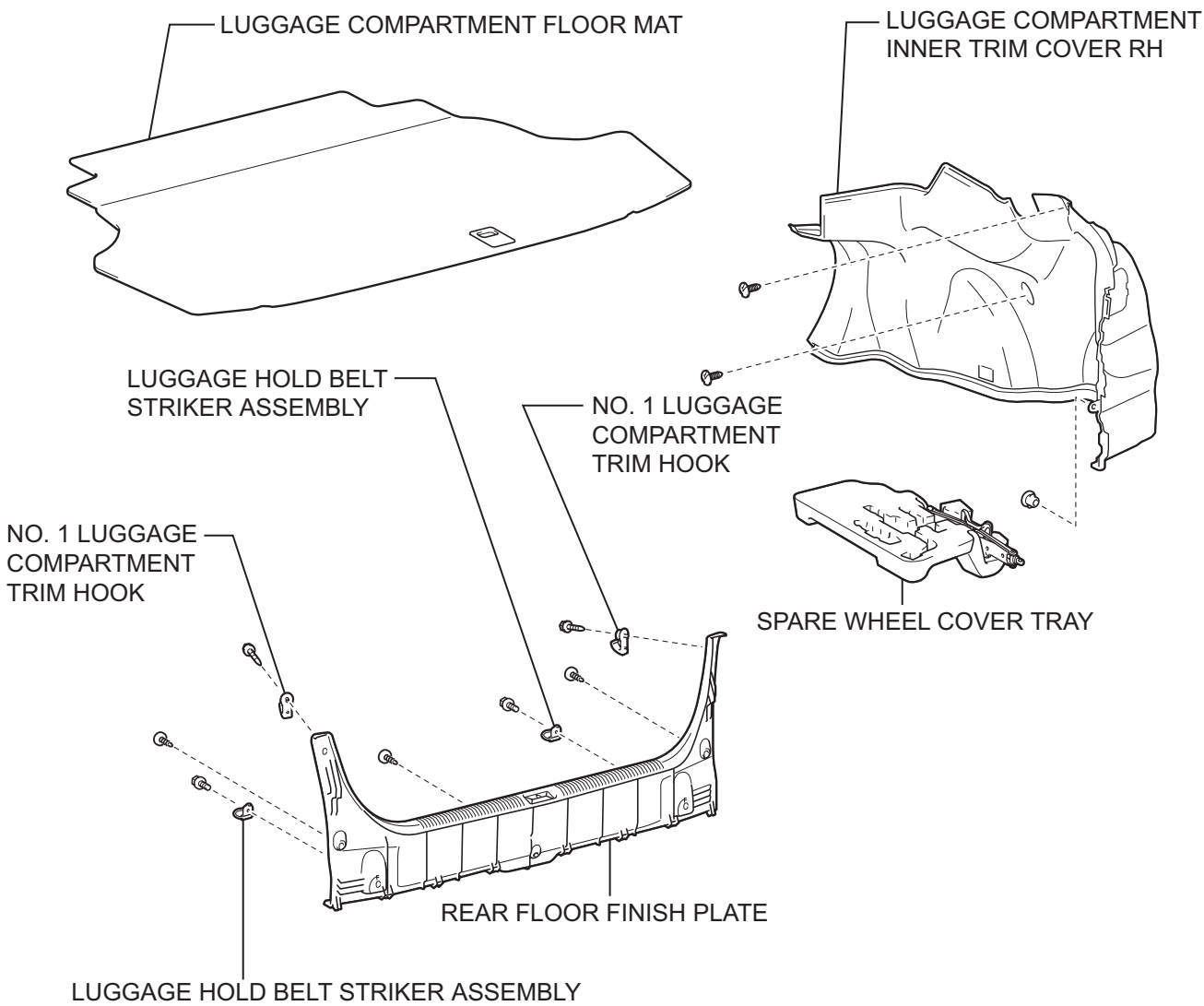


RF

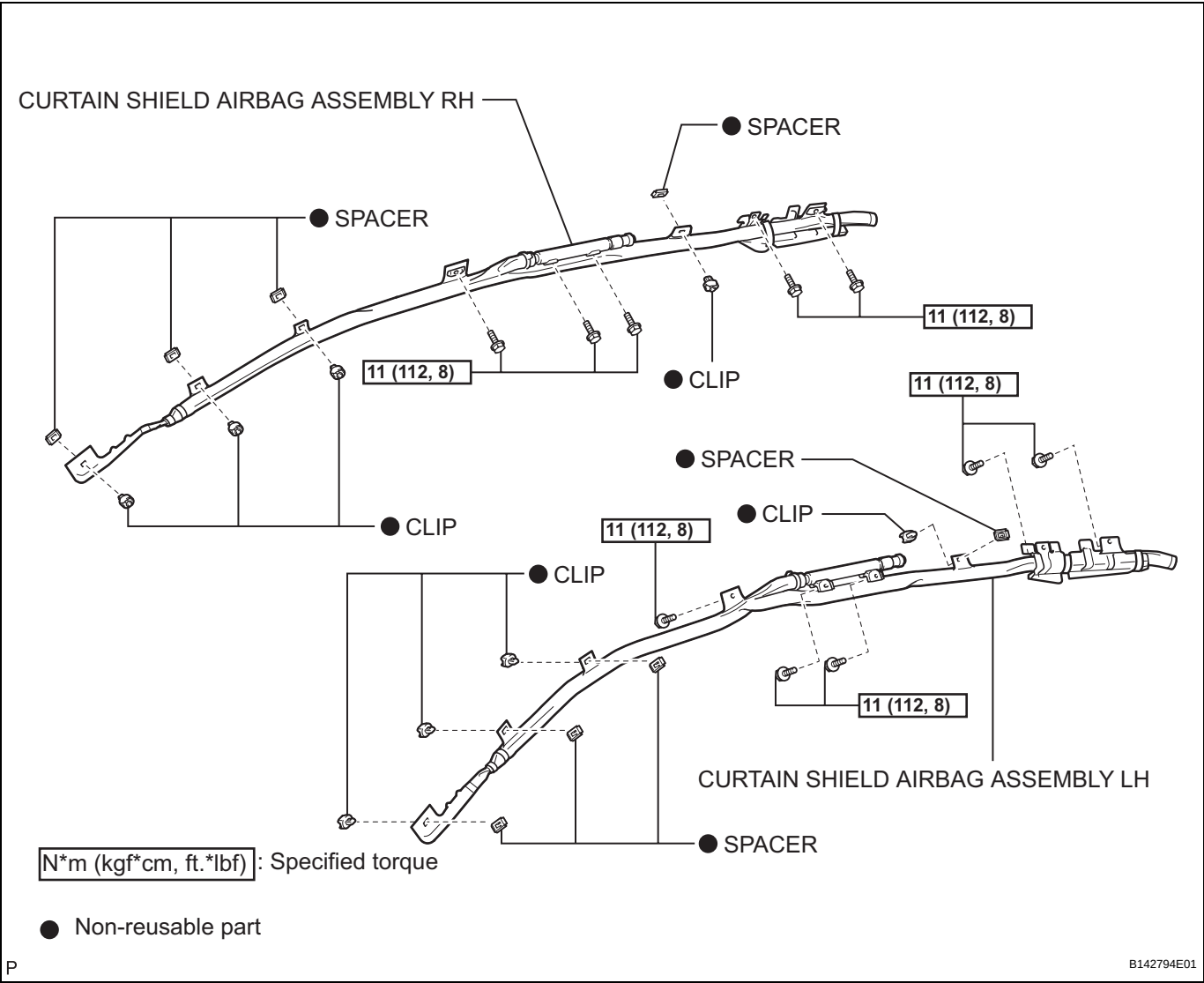


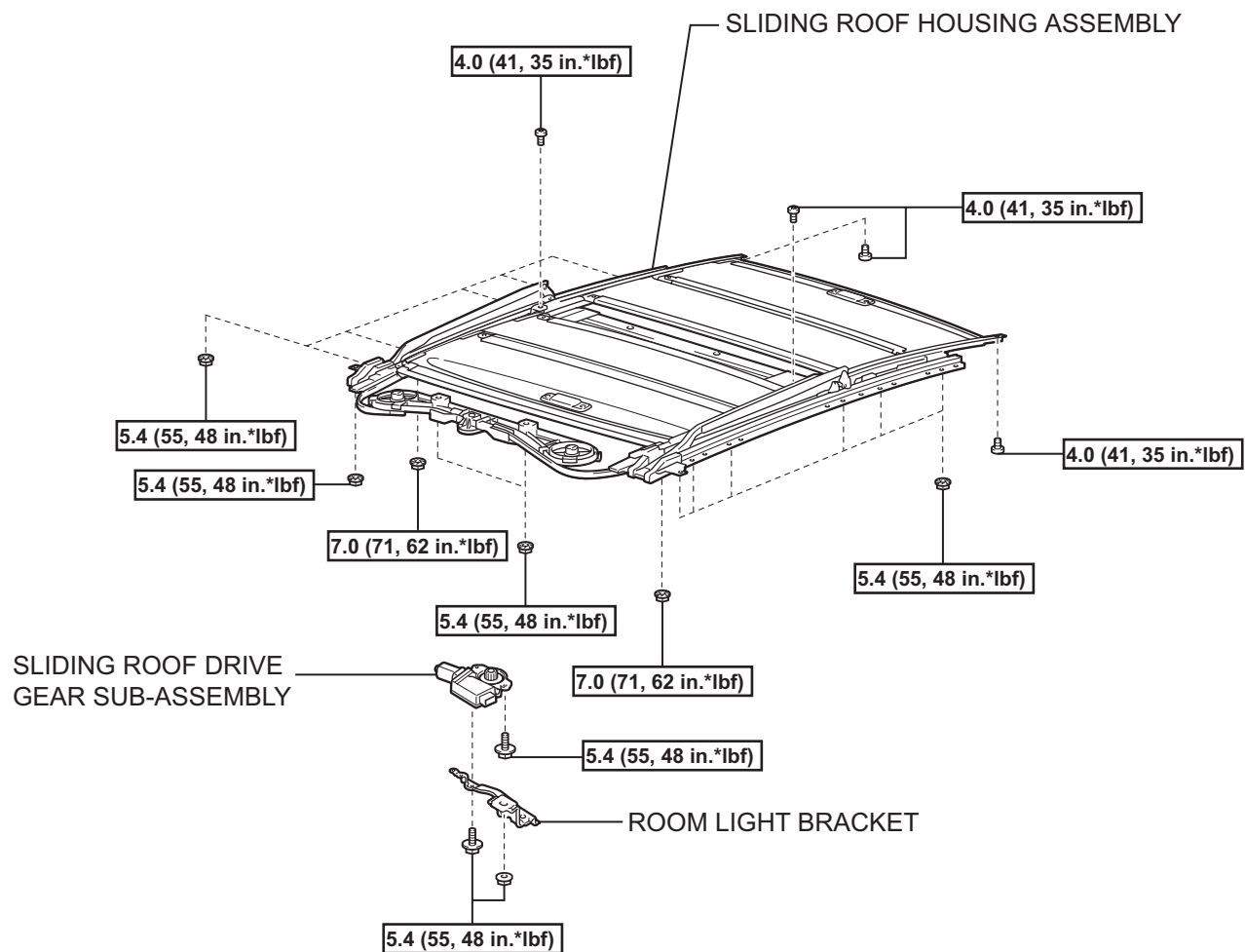
$\boxed{\text{N*m (kgf*cm, ft.*lbf)}}$: Specified torque

with DVD Player:



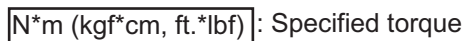


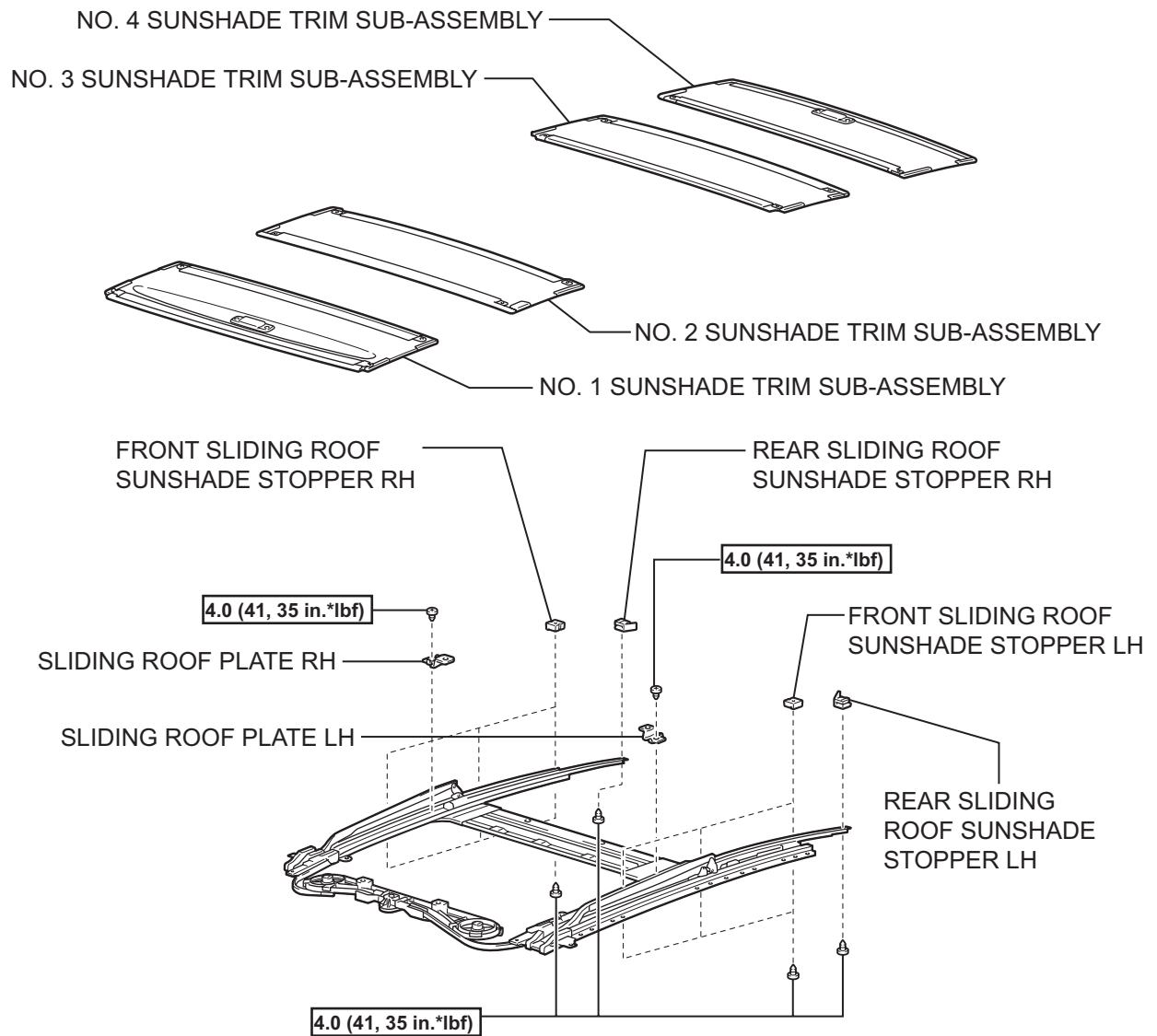




$\boxed{\text{N*m (kgf*cm, ft.*lbf)}}$: Specified torque

B142802E01



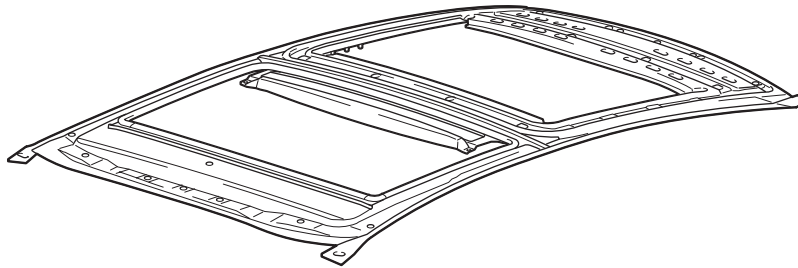


$\text{N}\cdot\text{m}$ ($\text{kgf}\cdot\text{cm}$, $\text{ft}\cdot\text{lbf}$): Specified torque

NO. 3 SLIDING ROOF GLASS SUB-ASSEMBLY

5.4 (55, 48 in.*lbf)

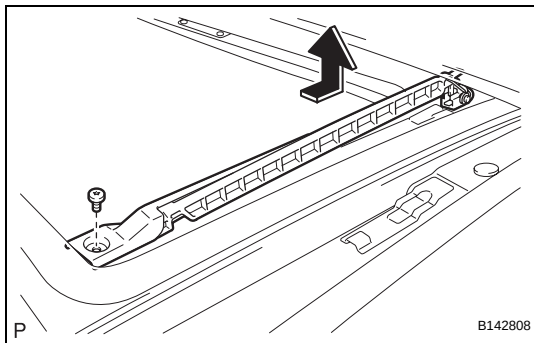
5.4 (55, 48 in.*lbf)



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

P

B142804E01



REMOVAL

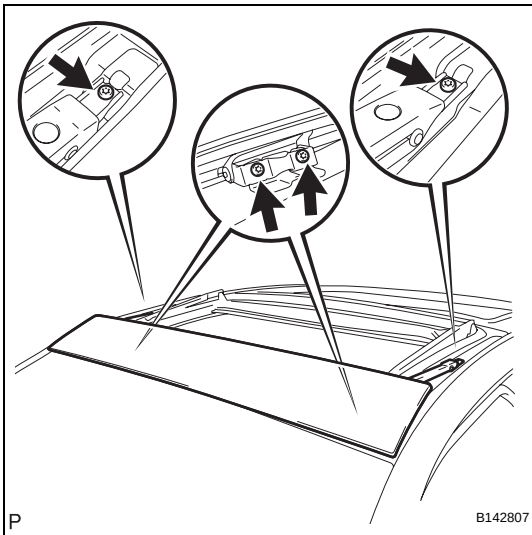
1. REMOVE SLIDING ROOF SIDE GARNISH LH

- Fully open the No. 2 sliding roof glass sub-assembly.
- Using a T25 "TORX" driver, remove the screw and sliding roof side garnish LH as shown in the illustration.

2. REMOVE SLIDING ROOF SIDE GARNISH RH

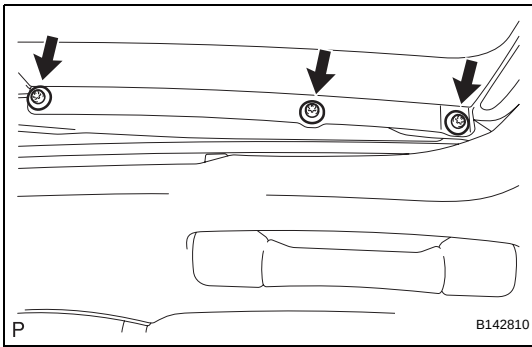
HINT:

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



3. REMOVE NO. 1 SLIDING ROOF GLASS SUB-ASSEMBLY

- (a) Using a T20 "TORX" driver, remove the 6 screws and No. 1 sliding roof glass sub-assembly.



4. REMOVE NO. 2 SLIDING ROOF GLASS SUB-ASSEMBLY

- (a) Fully close the No. 2 sliding roof glass sub-assembly.
- (b) Using a T25 "TORX" driver, remove the 3 screws.
HINT:
Use the same procedure for the RH side and the LH side.
- (c) Remove the No. 2 sliding roof glass sub-assembly.

5. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-113](#))

6. REMOVE REAR SEAT HEADREST ASSEMBLY

7. REMOVE REAR CENTER SEAT HEADREST ASSEMBLY

8. REMOVE REAR SEATBACK ASSEMBLY (See page [SE-113](#))

9. REMOVE SEAT BELT ANCHOR COVER CAP LH (See page [SB-22](#))

10. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY LH (See page [SB-22](#))

11. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Driver Seat)

12. REMOVE FRONT SEAT OUTER TRACK BRACKET COVER LH (See page [SE-83](#))

13. REMOVE FRONT SEAT INNER TRACK BRACKET COVER LH (See page [SE-83](#))

14. REMOVE FRONT SEAT REAR OUTER TRACK BRACKET COVER LH (See page [SE-83](#))

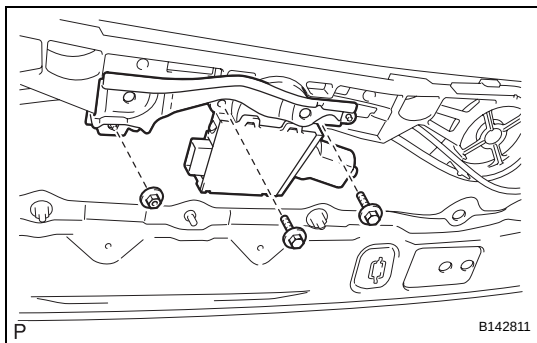
15. REMOVE FRONT SEAT REAR INNER TRACK BRACKET COVER LH (See page [SE-83](#))

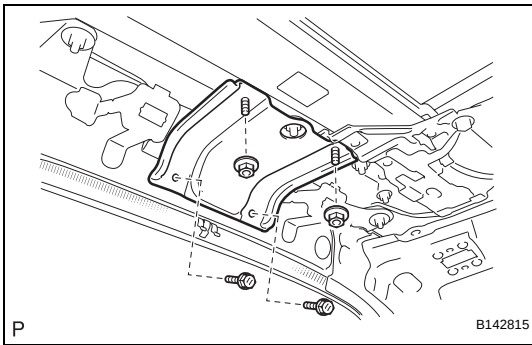
16. REMOVE FRONT SEAT ASSEMBLY LH (See page [SE-83](#))

17. REMOVE SEAT BELT ANCHOR COVER CAP RH (See page [RS-490](#))
18. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY RH (See page [RS-490](#))
19. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Front Passenger Seat)
20. REMOVE FRONT SEAT OUTER TRACK BRACKET COVER RH (See page [RS-490](#))
21. REMOVE FRONT SEAT INNER TRACK BRACKET COVER RH (See page [RS-490](#))
22. REMOVE FRONT SEAT REAR OUTER TRACK BRACKET COVER RH (See page [RS-490](#))
23. REMOVE FRONT SEAT REAR INNER TRACK BRACKET COVER RH (See page [RS-490](#))
24. REMOVE FRONT SEAT ASSEMBLY RH (See page [RS-491](#))
25. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-39](#))
26. REMOVE FRONT DOOR OPENING TRIM COVER LH (See page [IR-39](#))
27. REMOVE SIDE INSTRUMENT PANEL LH (See page [IP-12](#))
28. REMOVE FRONT PILLAR GARNISH LH (See page [IR-39](#))
29. REMOVE REAR DOOR SCUFF PLATE LH (See page [IR-40](#))
30. REMOVE LOWER CENTER PILLAR GARNISH LH (See page [IR-40](#))
31. REMOVE UPPER CENTER PILLAR GARNISH LH (See page [IR-41](#))
32. REMOVE REAR SEAT SIDE GARNISH LH (w/o Rear Seat Side Airbag) (See page [IR-41](#))
33. REMOVE REAR SEAT SIDE AIRBAG ASSEMBLY LH (w/ Rear Seat Side Airbag) (See page [RS-460](#))
34. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY LH (See page [IR-42](#))
35. REMOVE FRONT DOOR SCUFF PLATE RH (See page [IR-42](#))
36. REMOVE FRONT DOOR OPENING TRIM COVER RH (See page [IR-42](#))
37. REMOVE SIDE INSTRUMENT PANEL RH (See page [IP-15](#))
38. REMOVE FRONT PILLAR GARNISH RH (See page [IR-42](#))

39. REMOVE REAR DOOR SCUFF PLATE RH (See page [IR-42](#))
40. REMOVE LOWER CENTER PILLAR GARNISH RH (See page [IR-42](#))
41. REMOVE UPPER CENTER PILLAR GARNISH RH (See page [IR-42](#))
42. REMOVE REAR SEAT SIDE GARNISH RH (w/o Rear Seat Side Airbag) (See page [IR-43](#))
43. REMOVE REAR SEAT SIDE AIRBAG ASSEMBLY RH (w/ Rear Seat Side Airbag) (See page [IR-43](#))
44. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY RH (See page [IR-43](#))
45. REMOVE INSTRUMENT PANEL FINISH PANEL END LH (See page [IP-13](#))
46. REMOVE INSTRUMENT PANEL FINISH PANEL END RH (See page [IP-15](#))
47. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (See page [IP-16](#))
48. REMOVE UPPER CONSOLE PANEL ASSEMBLY WITH FRONT ASH RECEPTACLE (See page [IP-16](#))
49. REMOVE HEATER SEAT SWITCH CONSOLE BASE (w/o Seat Heater System) (See page [IP-17](#))
50. REMOVE HEATER SEAT SWITCH CONSOLE BASE (w/ Seat Heater System) (See page [IP-18](#))
51. REMOVE CONSOLE BOX POCKET (See page [IP-52](#))
52. REMOVE CONSOLE BOX CARPET (See page [IP-52](#))
53. REMOVE CONSOLE REAR END PANEL SUB-ASSEMBLY (See page [IP-53](#))
54. REMOVE REAR CONSOLE BOX ASSEMBLY (See page [IP-53](#))
55. REMOVE NO. 2 CONSOLE BOX DUCT (See page [AC-149](#))
56. REMOVE NO. 3 CONSOLE BOX DUCT (See page [AC-149](#))
57. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (See page [AX-232](#))
58. REMOVE SHIFT LEVER ASSEMBLY (See page [AX-233](#))
59. REMOVE FLOOR CARPET BRACKET LH (See page [AC-148](#))
60. REMOVE FLOOR CARPET BRACKET RH (See page [AC-148](#))
61. REMOVE LUGGAGE COMPARTMENT FLOOR MAT (w/ DVD Player)

62. REMOVE SPARE WHEEL COVER TRAY (w/ DVD Player)
63. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (w/ DVD Player) (See page [ED-82](#))
64. REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (w/ DVD Player) (See page [ED-83](#))
65. REMOVE REAR FLOOR FINISH PLATE (w/ DVD Player) (See page [ED-83](#))
66. REMOVE LUGGAGE COMPARTMENT INNER TRIM COVER RH (w/ DVD Player) (See page [ED-83](#))
67. DISCONNECT STEREO COMPONENT AMPLIFIER ASSEMBLY CONNECTOR (w/ DVD Player) (See page [IR-44](#))
68. REMOVE INNER REAR VIEW MIRROR STAY HOLDER COVER (See page [MI-42](#))
69. REMOVE RAIN SENSOR COVER (See page [WW-63](#))
70. REMOVE ROOF CONSOLE BOX ASSEMBLY (See page [IR-44](#))
71. REMOVE VISOR BRACKET COVER (See page [IR-45](#))
72. REMOVE VISOR ASSEMBLY LH (See page [IR-45](#))
73. REMOVE VISOR ASSEMBLY RH (See page [IR-45](#))
74. REMOVE VISOR HOLDER (See page [IR-45](#))
75. REMOVE COAT HOOK (See page [IR-45](#))
76. REMOVE SPOT LIGHT ASSEMBLY (See page [IR-46](#))
77. REMOVE ASSIST GRIP SUB-ASSEMBLY (See page [IR-47](#))
78. REMOVE ROOF HEADLINING ASSEMBLY (See page [IR-48](#))
79. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH (See page [RS-439](#))
80. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY RH
HINT:
Use the same procedure for the RH side and the LH side.
81. REMOVE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY
 - (a) Remove the 2 bolts, nut, sliding roof drive gear sub-assembly, and room light bracket.



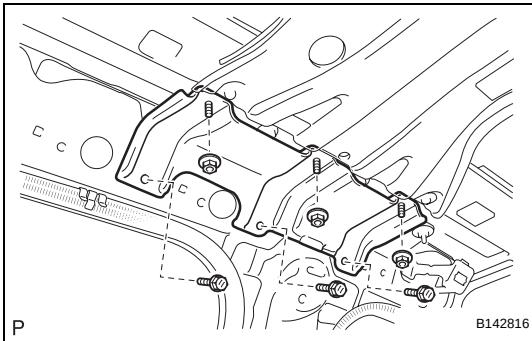
**82. REMOVE FRONT SLIDING ROOF HOUSING MOUNTING BRACKET LH**

- (a) Remove the 2 bolts, 2 nuts, and front sliding roof housing mounting bracket LH.

83. REMOVE FRONT SLIDING ROOF HOUSING MOUNTING BRACKET RH

HINT:

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

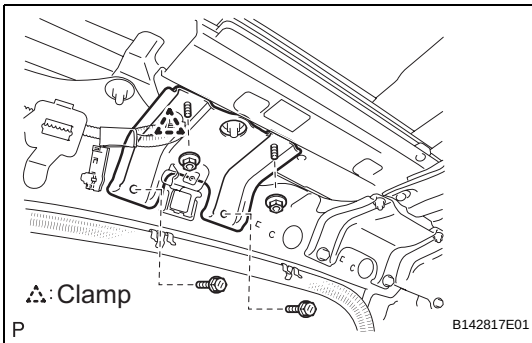
**84. REMOVE CENTER SLIDING ROOF HOUSING MOUNTING BRACKET LH**

- (a) Remove the 3 bolts, 3 nuts, and center sliding roof housing mounting bracket LH.

85. REMOVE CENTER SLIDING ROOF HOUSING MOUNTING BRACKET RH

HINT:

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

**86. REMOVE REAR SLIDING ROOF HOUSING MOUNTING BRACKET LH**

- (a) Disengage the clamp.
(b) Remove the 2 bolts, 2 nuts, and rear sliding roof housing mounting bracket LH.

87. REMOVE REAR SLIDING ROOF HOUSING MOUNTING BRACKET RH

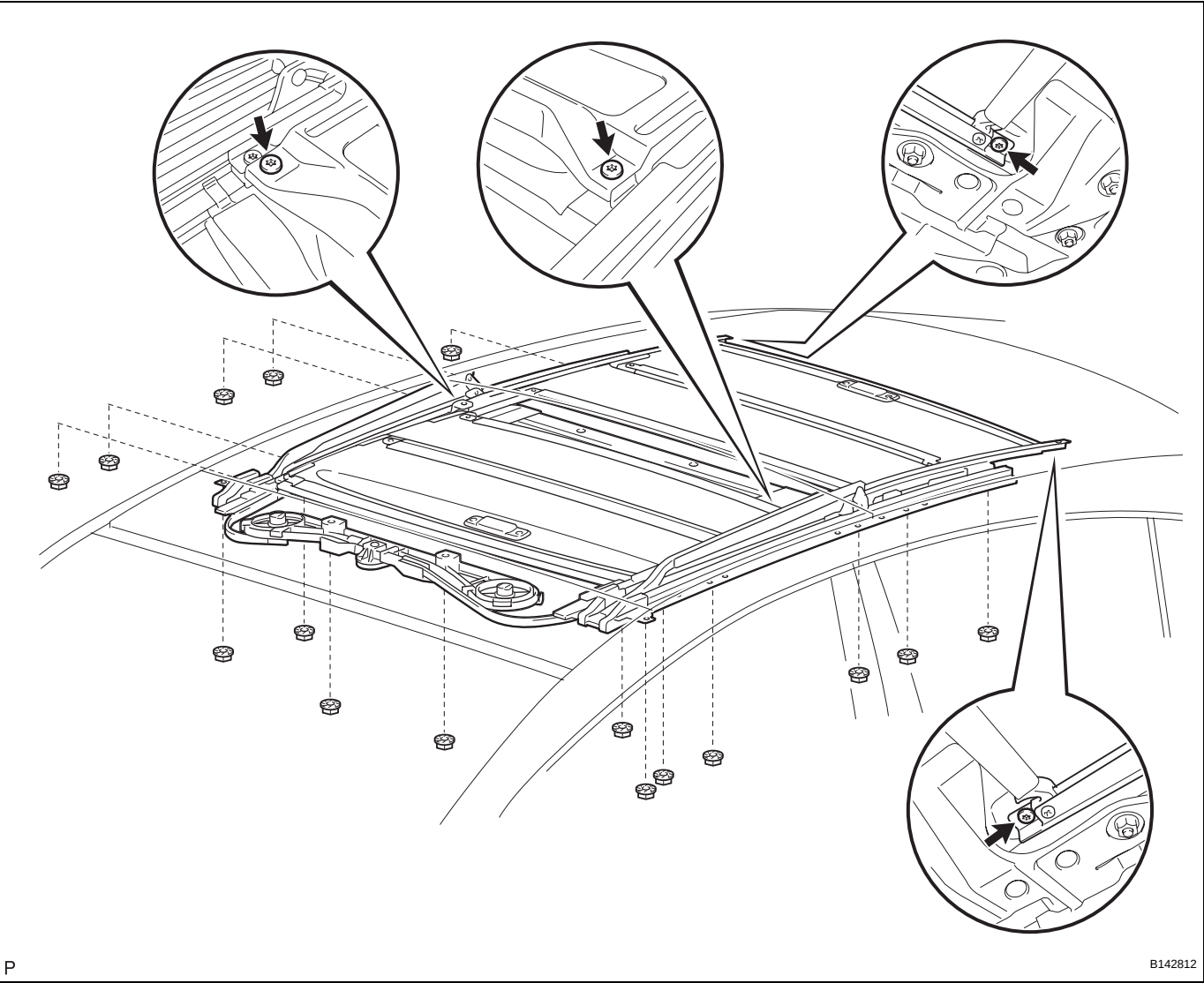
HINT:

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

88. REMOVE SLIDING ROOF HOUSING ASSEMBLY

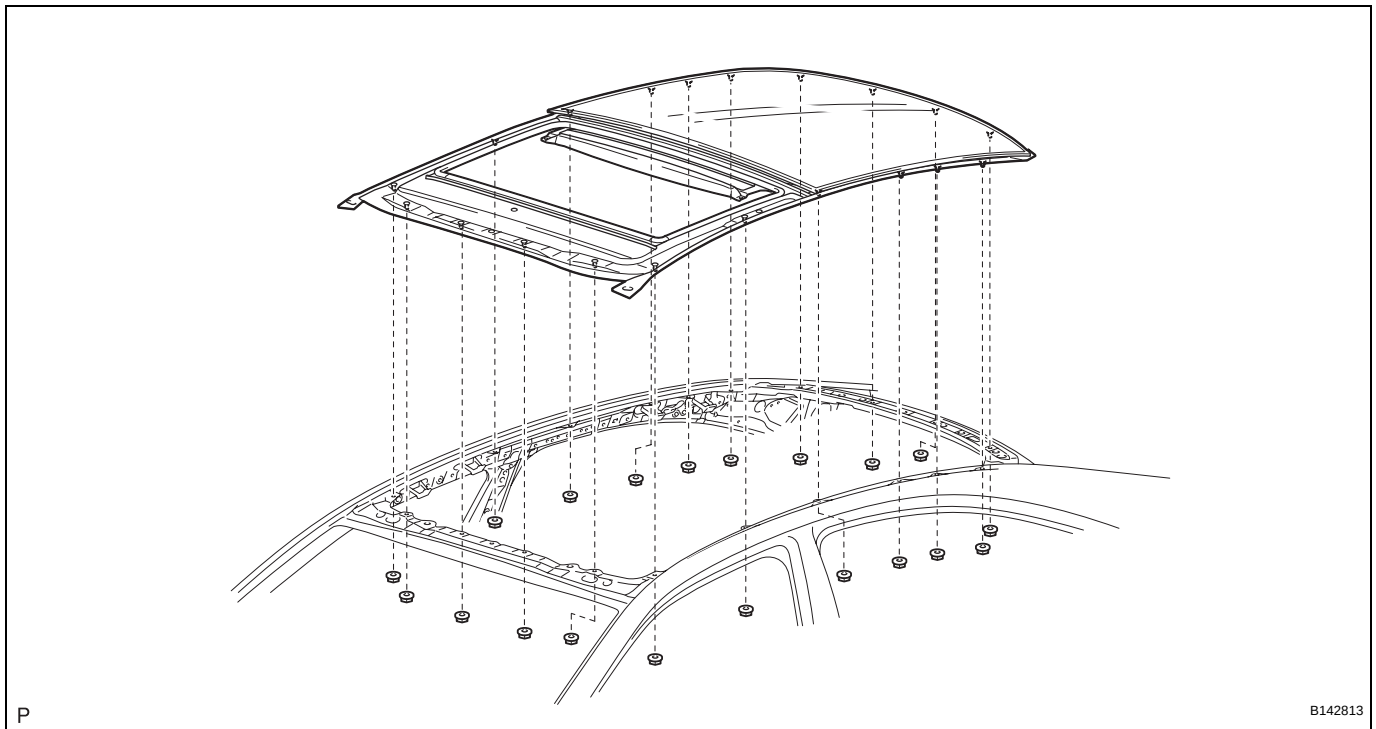
- (a) Using a T25 "TORX" driver, remove the 4 screws.

(b) Remove the 16 nuts and sliding roof housing assembly.



89. REMOVE SLIDING ROOF HOUSING PANEL

- (a) Remove the 20 nuts and sliding roof housing panel.

**NOTICE:**

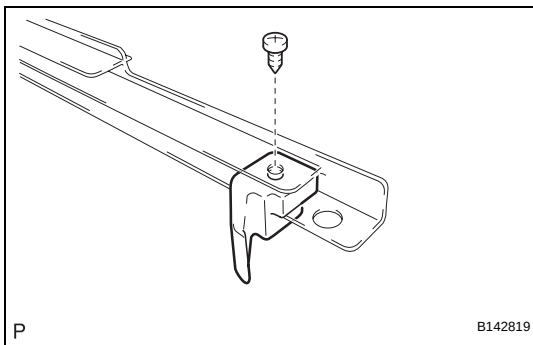
- When removing the panel, be careful not to damage the vehicle.
- Perform this step with 2 or more technicians.

DISASSEMBLY**1. REMOVE NO. 3 SUNSHADE TRIM SUB-ASSEMBLY**

- (a) Remove the screw and rear sliding roof sunshade stopper LH.

HINT:

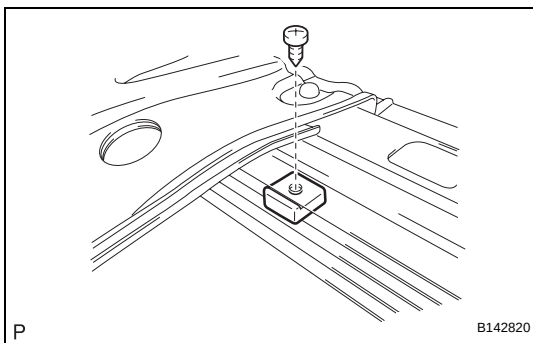
Use the same procedure for the RH side and the LH side.

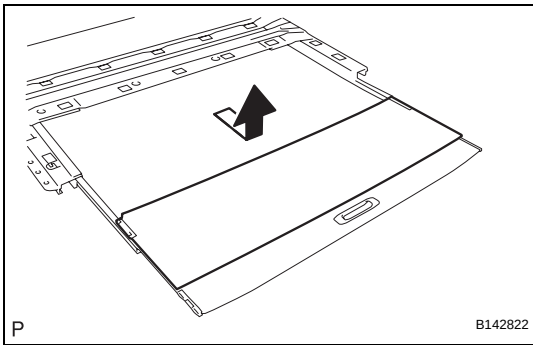


- (b) Remove the screw and front sliding roof sunshade stopper LH.

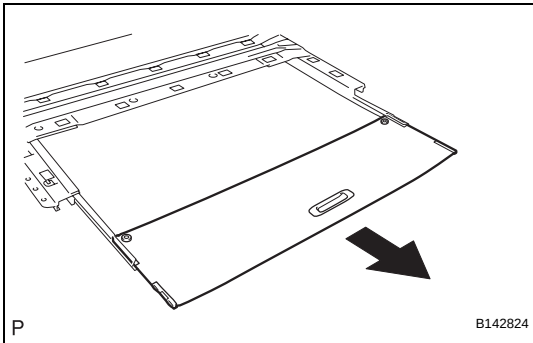
HINT:

- Use the same procedures for the other 2 stoppers.
- Use the same procedure for the RH side and the LH side.



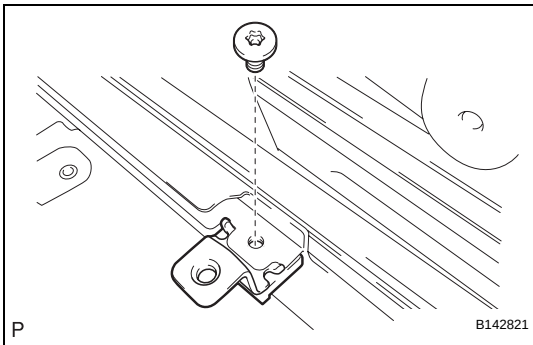


- (c) Slide and remove the No. 3 sunshade trim sub-assembly.



2. REMOVE NO. 4 SUNSHADE TRIM SUB-ASSEMBLY

- (a) Slide and remove the No. 4 sunshade trim sub-assembly.

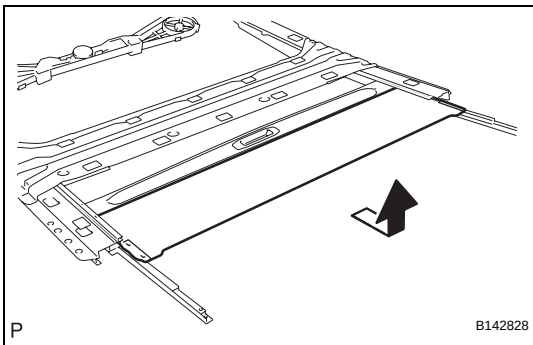


3. REMOVE NO. 2 SUNSHADE TRIM SUB-ASSEMBLY

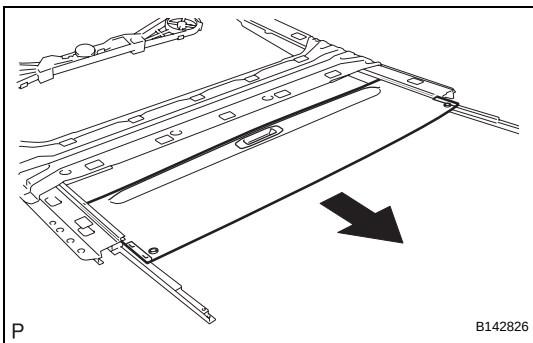
- (a) Using a T25 "TORX" driver, remove the screw and sliding roof plate LH.

HINT:

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

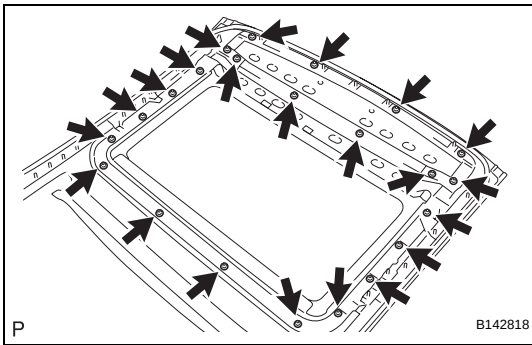


- (b) Slide and remove the No. 2 sunshade trim sub-assembly.



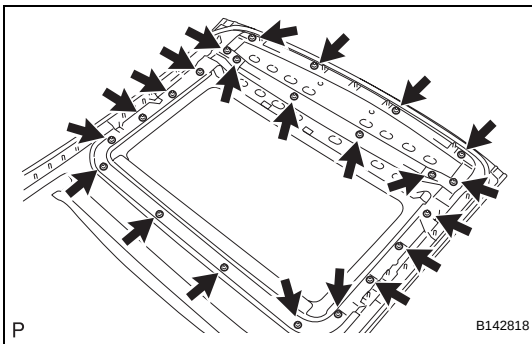
4. REMOVE NO. 1 SUNSHADE TRIM SUB-ASSEMBLY

- (a) Slide and remove the No. 1 sunshade trim sub-assembly.



5. REMOVE NO. 3 SLIDING ROOF GLASS SUB-ASSEMBLY

- (a) Remove the 22 nuts and No. 3 sliding roof glass sub-assembly.

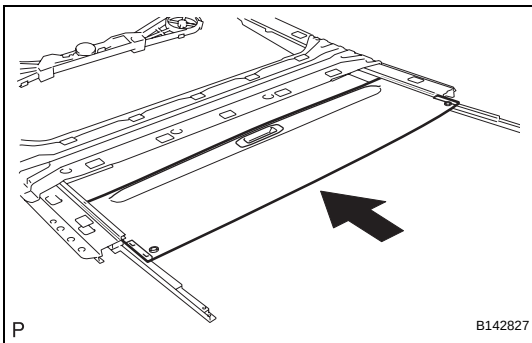


REASSEMBLY

1. INSTALL NO. 3 SLIDING ROOF GLASS SUB-ASSEMBLY

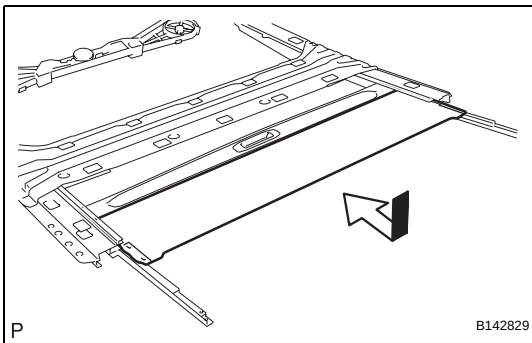
- (a) Install the No. 3 sliding roof glass sub-assembly with the 22 nuts.

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



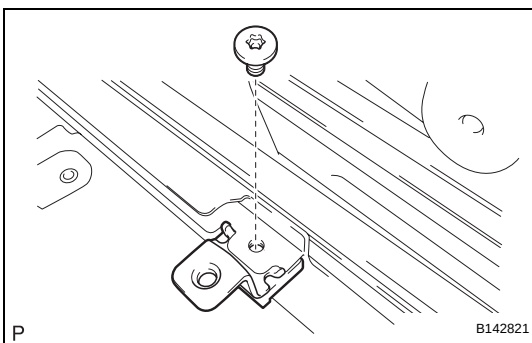
2. INSTALL NO. 1 SUNSHADE TRIM SUB-ASSEMBLY

- (a) Slide and install the No. 1 sunshade trim sub-assembly.



3. INSTALL NO. 2 SUNSHADE TRIM SUB-ASSEMBLY

- (a) Slide and install the No. 2 sunshade trim sub-assembly.

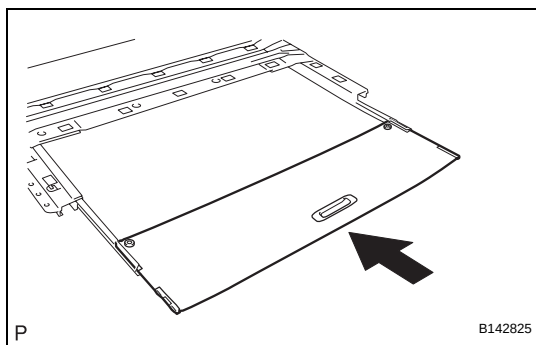


- (b) Using a T25 "TORX" driver, install the sliding roof plate LH with the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

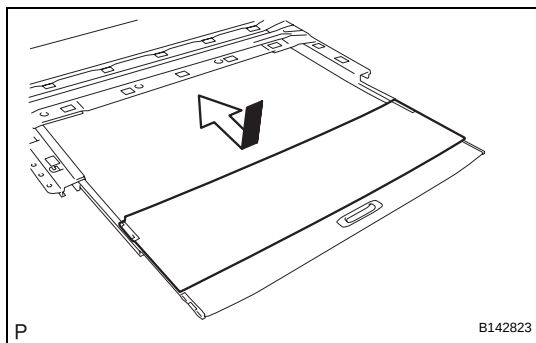
HINT:

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



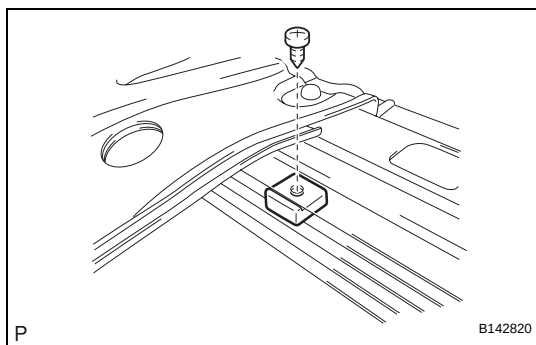
4. INSTALL NO. 4 SUNSHADE TRIM SUB-ASSEMBLY

- (a) Slide and install the No. 4 sunshade trim sub-assembly.



5. INSTALL NO. 3 SUNSHADE TRIM SUB-ASSEMBLY

- (a) Slide and install the No. 3 sunshade trim sub-assembly.

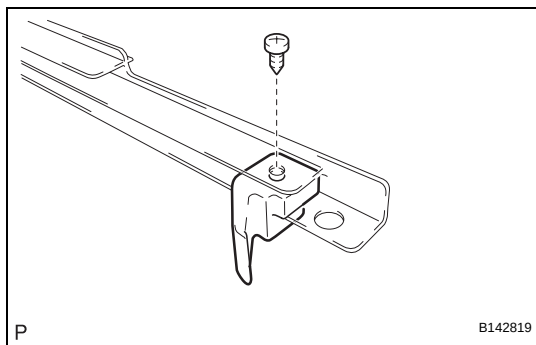


- (b) Install the front sliding roof sunshade stopper LH with the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

HINT:

- Use the same procedure for the other 2 stoppers.
- Use the same procedure for the RH side and the LH side.



- (c) Install the rear sliding roof sunshade stopper LH with the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

HINT:

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

INSTALLATION

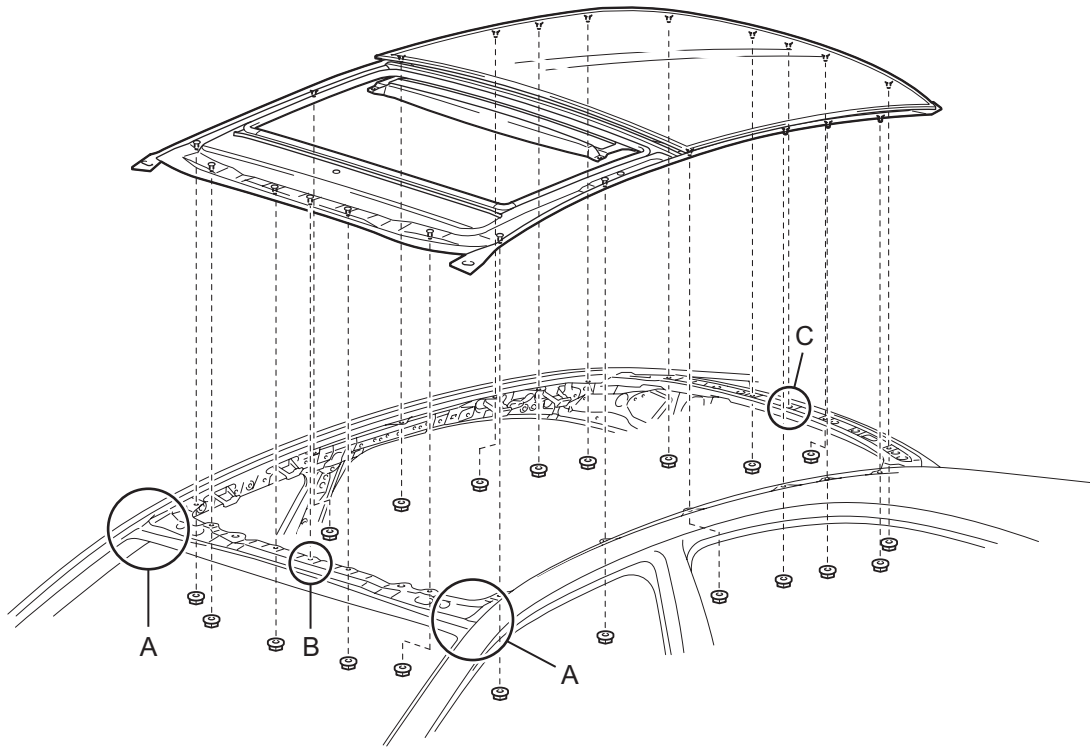
1. TEMPORARILY TIGHTEN SLIDING ROOF HOUSING PANEL

- (a) Temporarily install the sliding roof housing panel with the 20 nuts.

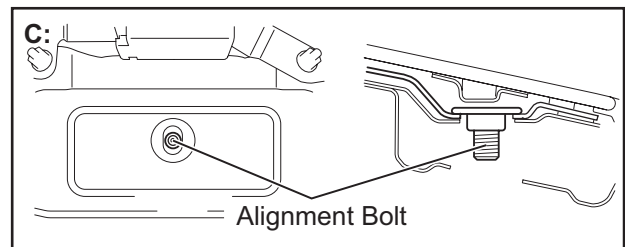
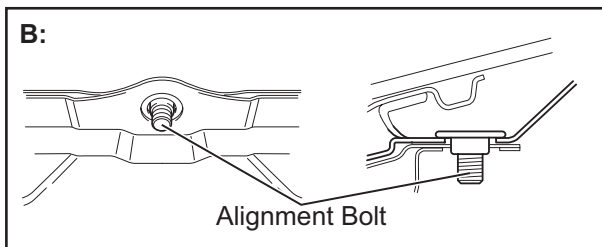
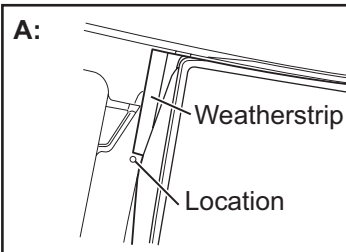
NOTICE:

- When installing the panel to the vehicle, first install the panel center front and center rear alignment bolts to the vehicle front and rear alignment bolt installation points, as shown in the illustration.
- Align the end of weatherstrip with the vehicle body and position the weatherstrip so that its front edge comes to the location.
- When installing the panel, be careful not to damage the vehicle.
- Perform this step with 2 or more technicians.

(b) Check that the alignment bolts are firmly installed.



Align the end of the weatherstrip with the vehicle body and position the weatherstrip so that its front edge comes to the location



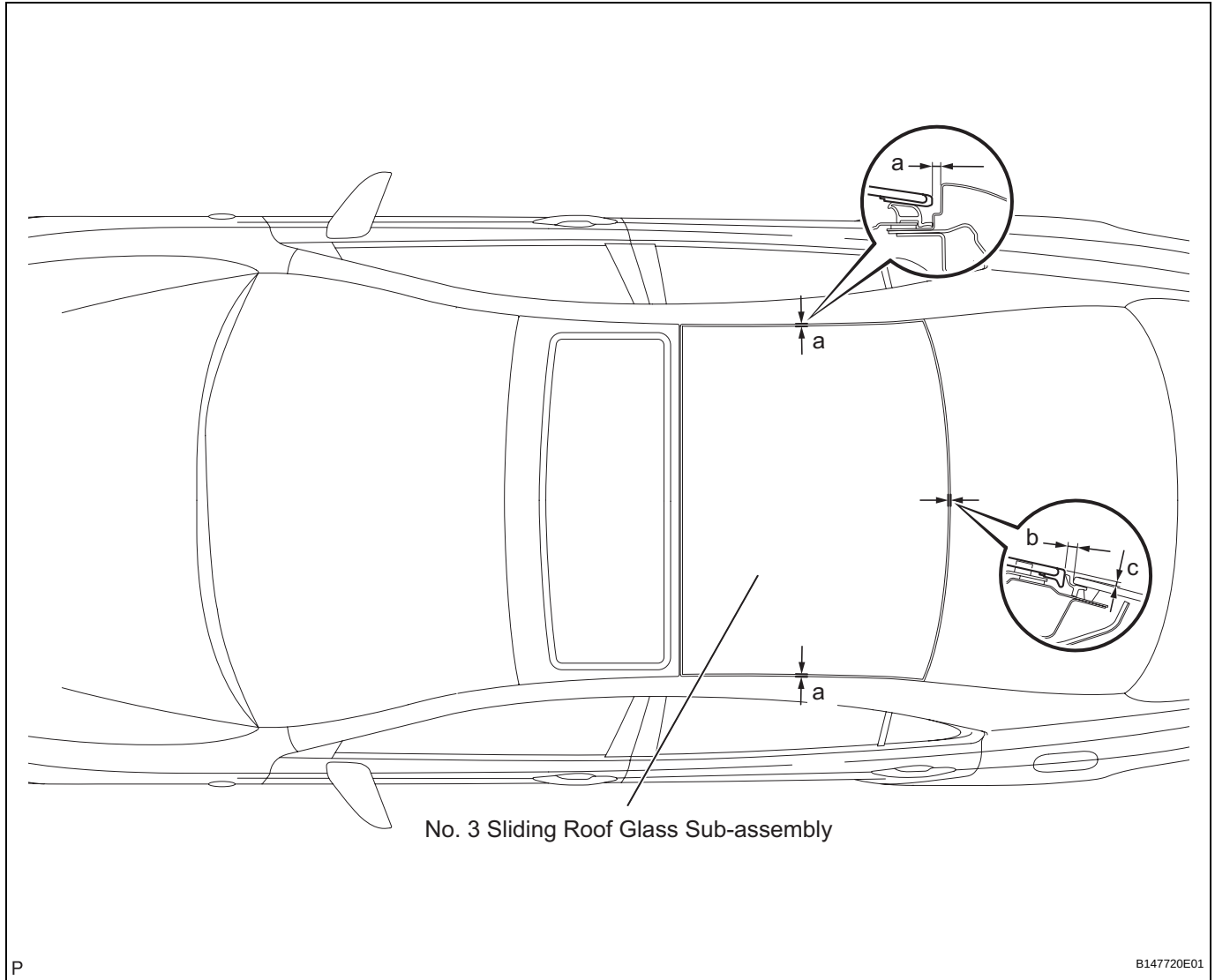
B142814E01

NOTICE:

When the bolts are not firmly installed, water leaks and malfunctions will occur.

2. ADJUST SLIDING ROOF HOUSING PANEL

- (a) The sliding roof glass does not have adjusting screws. Instead, change the position of the No. 3 sliding roof glass sub-assembly so that the measurements are within the standard values shown in the illustration.

**Standard**

Area	Measurement
a	4.0 mm + 2.0 mm (0.158 in. + 0.079 in.) 4.0 mm - 2.0 mm (0.158 in. - 0.079 in.)
b	4.5 mm + 1.5 mm (0.177 in. + 0.059 in.) 4.5 mm - 1.5 mm (0.177 in. - 0.059 in.)
c	2.0 mm + 1.5 mm (0.079 in. + 0.059 in.) 2.0 mm - 1.5 mm (0.079 in. - 0.059 in.)

HINT:

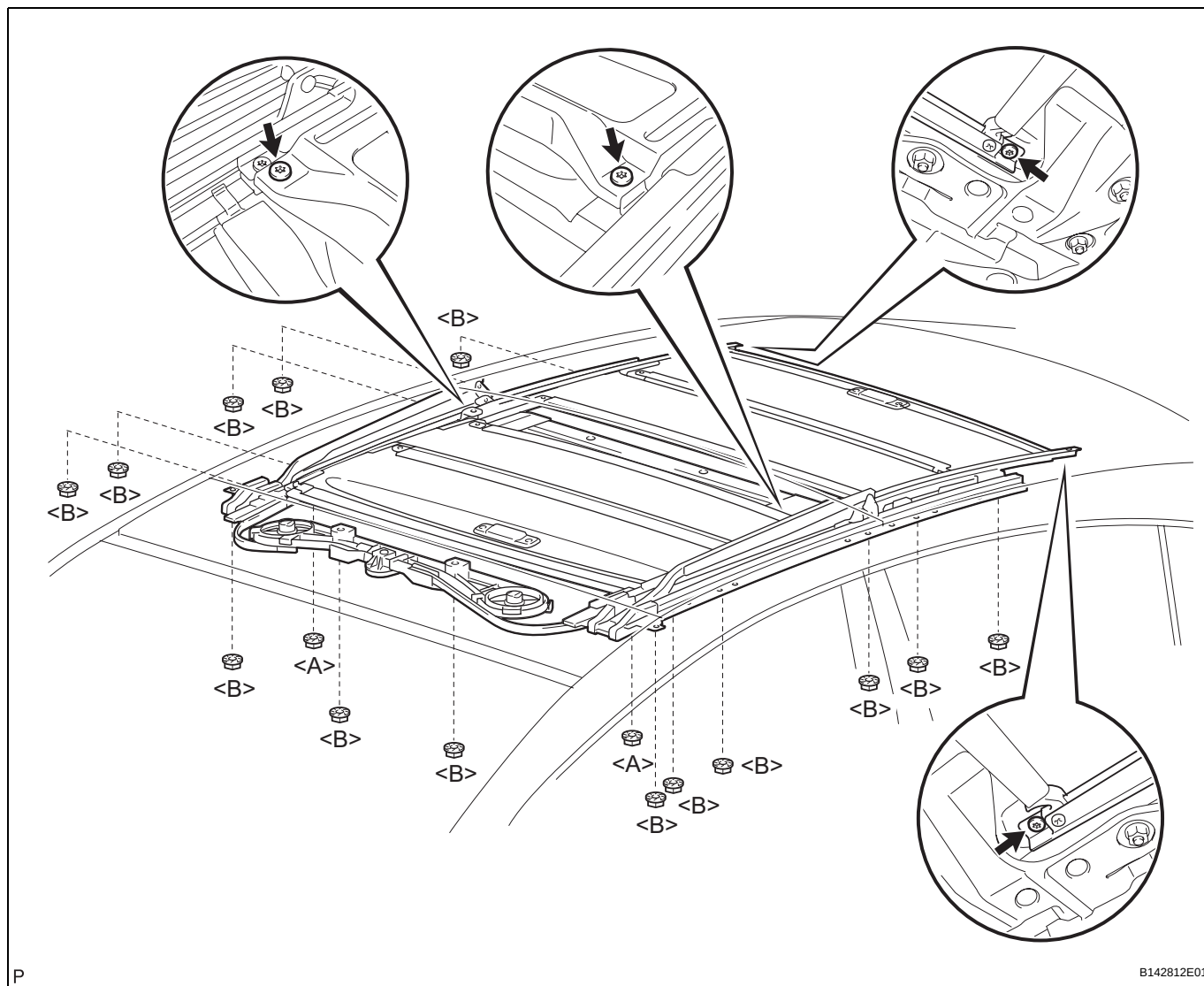
"+" represents the condition that the glass is above the panel level. "-" represents the condition that the glass is below the panel level.

- (b) After adjusting the No. 3 sliding roof glass sub-assembly, fully tighten the 20 nuts to install the sliding roof housing panel.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

3. INSTALL SLIDING ROOF HOUSING ASSEMBLY

- (a) Install the sliding roof housing assembly with the 16 nuts.



Torque: Nut <A>

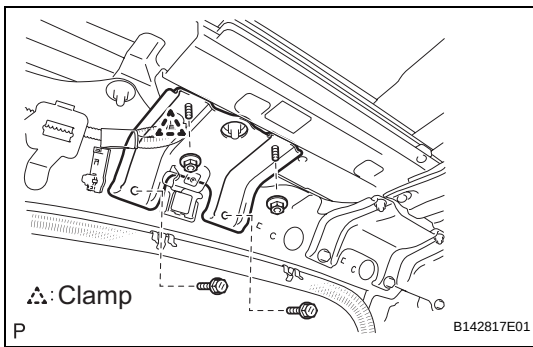
7.0 N*m (71 kgf*cm, 62 in.*lbf)

**Nut **

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

- (b) Using a T25 "TORX" driver, install the 4 screws.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)



4. INSTALL REAR SLIDING ROOF HOUSING MOUNTING BRACKET LH

- (a) Install the rear sliding roof housing mounting bracket LH with the 2 bolts and 2 nuts.

Torque: Bolt

8.0 N*m (82 kgf*cm, 71 in.*lbf)

Nut

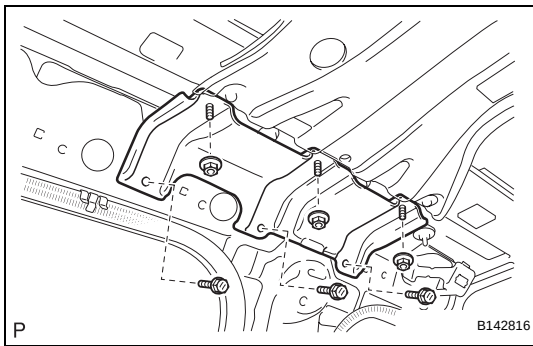
5.5 N*m (56 kgf*cm, 49 in.*lbf)

- (b) Engage the clamp.

5. INSTALL REAR SLIDING ROOF HOUSING MOUNTING BRACKET RH

HINT:

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



6. INSTALL CENTER SLIDING ROOF HOUSING MOUNTING BRACKET LH

- (a) Install the center sliding roof housing mounting bracket LH with the 3 bolts and 3 nuts.

Torque: Bolt

8.0 N*m (82 kgf*cm, 71 in.*lbf)

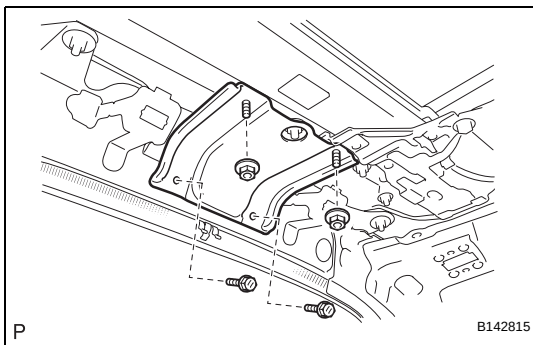
Nut

5.5 N*m (56 kgf*cm, 49 in.*lbf)

7. INSTALL CENTER SLIDING ROOF HOUSING MOUNTING BRACKET RH

HINT:

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



8. INSTALL FRONT SLIDING ROOF HOUSING MOUNTING BRACKET LH

- (a) Install the front sliding roof housing mounting bracket LH with the 2 bolts and 2 nuts.

Torque: Bolt

8.0 N*m (82 kgf*cm, 71 in.*lbf)

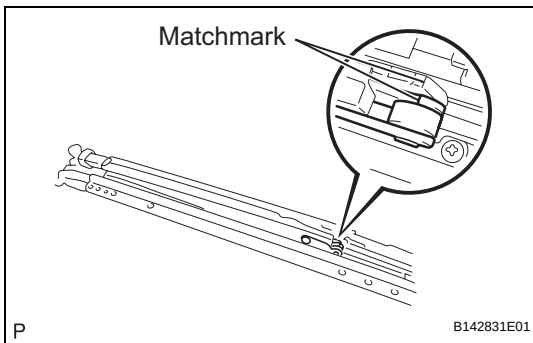
Nut

5.5 N*m (56 kgf*cm, 49 in.*lbf)

9. INSTALL FRONT SLIDING ROOF HOUSING MOUNTING BRACKET RH

HINT:

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

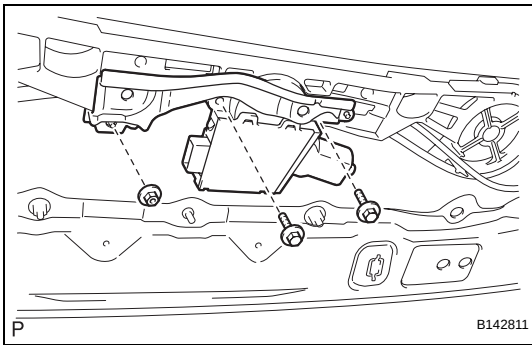


10. ADJUST FULLY CLOSED POSITION

- (a) Using a screwdriver, slide the sliding roof drive cable to align the matchmarks.

HINT:

Tape the screwdriver tip before use.



11. INSTALL SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

- (a) Install the sliding roof drive gear sub-assembly and room light bracket with the 2 bolts and nut.

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

12. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH (See page [RS-441](#))

13. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY RH

HINT:

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

14. INSTALL ROOF HEADLINING ASSEMBLY (See page [IR-57](#))

15. INSTALL ASSIST GRIP SUB-ASSEMBLY (See page [IR-58](#))

16. INSTALL SPOT LIGHT ASSEMBLY (See page [IR-59](#))

17. INSTALL COAT HOOK (See page [IR-60](#))

18. INSTALL VISOR HOLDER (See page [IR-60](#))

19. INSTALL VISOR ASSEMBLY LH (See page [IR-60](#))

20. INSTALL VISOR ASSEMBLY RH (See page [IR-60](#))

21. INSTALL VISOR BRACKET COVER (See page [IR-60](#))

22. INSTALL ROOF CONSOLE BOX ASSEMBLY (See page [IR-60](#))

23. INSTALL RAIN SENSOR COVER (See page [WW-65](#))

24. INSTALL INNER REAR VIEW MIRROR STAY HOLDER COVER (See page [MI-44](#))

25. CONNECT STEREO COMPONENT AMPLIFIER ASSEMBLY CONNECTOR (w/ DVD Player) (See page [IR-61](#))

26. INSTALL LUGGAGE COMPARTMENT INNER TRIM COVER RH (w/ DVD Player) (See page [ED-88](#))

27. INSTALL REAR FLOOR FINISH PLATE (w/ DVD Player) (See page [ED-88](#))

28. INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (w/ DVD Player) (See page [ED-89](#))

29. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (w/ DVD Player) (See page [ED-89](#))

30. INSTALL SPARE WHEEL COVER TRAY (w/ DVD Player)

31. INSTALL LUGGAGE COMPARTMENT FLOOR MAT (w/ DVD Player)

32. INSTALL FLOOR CARPET BRACKET LH

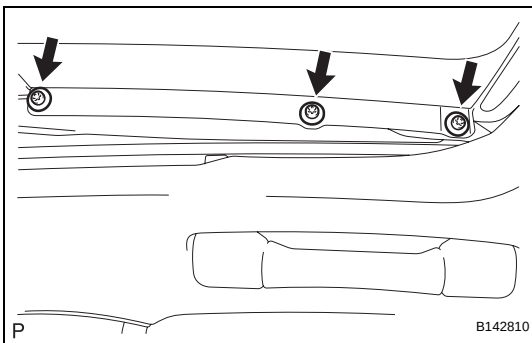
33. INSTALL FLOOR CARPET BRACKET RH

34. INSTALL SHIFT LEVER ASSEMBLY (See page [AX-240](#))
35. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (See page [AX-241](#))
36. INSTALL NO. 2 CONSOLE BOX DUCT (See page [AC-163](#))
37. INSTALL NO. 3 CONSOLE BOX DUCT (See page [AC-163](#))
38. INSTALL REAR CONSOLE BOX ASSEMBLY (See page [IP-39](#))
39. INSTALL CONSOLE REAR END PANEL SUB-ASSEMBLY (See page [IP-40](#))
40. INSTALL CONSOLE BOX CARPET (See page [IP-41](#))
41. INSTALL CONSOLE BOX POCKET (See page [IP-41](#))
42. INSTALL HEATER SEAT SWITCH CONSOLE BASE (w/o Seat Heater System) (See page [IP-41](#))
43. INSTALL HEATER SEAT SWITCH CONSOLE BASE (w/ Seat Heater System) (See page [IP-41](#))
44. INSTALL UPPER CONSOLE PANEL ASSEMBLY WITH FRONT ASH RECEPTACLE (See page [IP-42](#))
45. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (See page [IP-42](#))
46. INSTALL INSTRUMENT PANEL FINISH PANEL END LH (See page [IP-46](#))
47. INSTALL INSTRUMENT PANEL FINISH PANEL END RH (See page [IP-44](#))
48. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY LH (See page [IR-62](#))
49. INSTALL REAR SEAT SIDE GARNISH LH (w/o Rear Seat Side Airbag) (See page [IR-62](#))
50. INSTALL REAR SEAT SIDE AIRBAG ASSEMBLY LH (w/ Rear Seat Side Airbag) (See page [RS-460](#))
51. INSTALL UPPER CENTER PILLAR GARNISH LH (See page [IR-63](#))
52. INSTALL LOWER CENTER PILLAR GARNISH LH (See page [IR-63](#))
53. INSTALL REAR DOOR SCUFF PLATE LH (See page [IR-63](#))
54. INSTALL FRONT PILLAR GARNISH LH (See page [IR-64](#))
55. INSTALL SIDE INSTRUMENT PANEL LH (See page [IP-47](#))
56. INSTALL FRONT DOOR OPENING TRIM COVER LH (See page [IR-64](#))

57. INSTALL FRONT DOOR SCUFF PLATE LH (See page [IR-65](#))
58. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY RH (See page [IR-65](#))
59. INSTALL REAR SEAT SIDE GARNISH RH (w/o Rear Seat Side Airbag) (See page [IR-65](#))
60. INSTALL REAR SEAT SIDE AIRBAG ASSEMBLY RH (w/ Rear Seat Side Airbag) (See page [IR-65](#))
61. INSTALL UPPER CENTER PILLAR GARNISH RH (See page [IR-65](#))
62. INSTALL LOWER CENTER PILLAR GARNISH RH (See page [IR-65](#))
63. INSTALL REAR DOOR SCUFF PLATE RH (See page [IR-65](#))
64. INSTALL FRONT PILLAR GARNISH RH (See page [IR-65](#))
65. INSTALL SIDE INSTRUMENT PANEL RH (See page [IP-43](#))
66. INSTALL FRONT DOOR OPENING TRIM COVER RH (See page [IR-65](#))
67. INSTALL FRONT DOOR SCUFF PLATE RH (See page [IR-65](#))
68. INSTALL FRONT SEAT ASSEMBLY LH (See page [SE-109](#))
69. INSTALL FRONT SEAT REAR OUTER TRACK BRACKET COVER LH (See page [SE-110](#))
70. INSTALL FRONT SEAT REAR INNER TRACK BRACKET COVER LH (See page [SE-110](#))
71. INSTALL FRONT SEAT OUTER TRACK BRACKET COVER LH (See page [SE-110](#))
72. INSTALL FRONT SEAT INNER TRACK BRACKET COVER LH (See page [SE-110](#))
73. CONNECT FRONT SEAT OUTER BELT ASSEMBLY LH (See page [SB-25](#))
74. INSTALL SEAT BELT ANCHOR COVER CAP LH (See page [SB-25](#))
75. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Driver Seat)
76. INSTALL FRONT SEAT ASSEMBLY RH (See page [RS-497](#))
77. INSTALL FRONT SEAT REAR OUTER TRACK BRACKET COVER RH (See page [RS-498](#))
78. INSTALL FRONT SEAT REAR INNER TRACK BRACKET COVER RH (See page [RS-498](#))

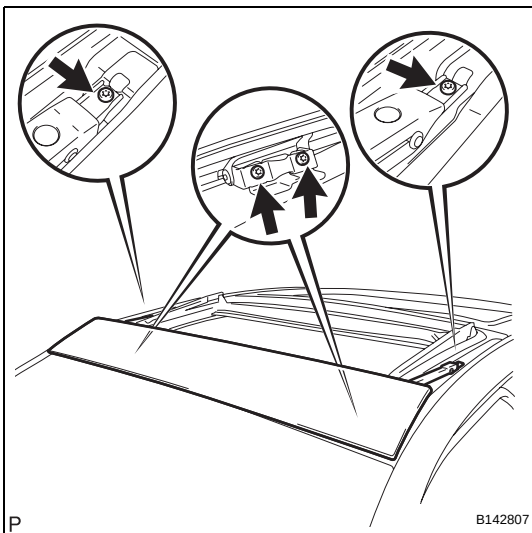
79. INSTALL FRONT SEAT OUTER TRACK BRACKET COVER RH (See page [RS-498](#))
80. INSTALL FRONT SEAT INNER TRACK BRACKET COVER RH (See page [RS-498](#))
81. CONNECT FRONT SEAT OUTER BELT ASSEMBLY RH (See page [RS-499](#))
82. INSTALL SEAT BELT ANCHOR COVER CAP RH (See page [RS-499](#))
83. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Front Passenger Seat)
84. INSTALL REAR SEATBACK ASSEMBLY (See page [SE-121](#))
85. INSTALL REAR CENTER SEAT HEADREST ASSEMBLY
86. INSTALL REAR SEAT HEADREST ASSEMBLY
87. INSTALL REAR SEAT CUSHION ASSEMBLY (See page [SE-121](#))
88. TEMPORARILY TIGHTEN NO. 2 SLIDING ROOF GLASS SUB-ASSEMBLY

- (a) Fully close the No. 2 sliding roof glass sub-assembly.
- (b) Using a T25 "TORX" driver, install the 3 screws.
HINT:
Use the same procedure for the RH side and the LH side.



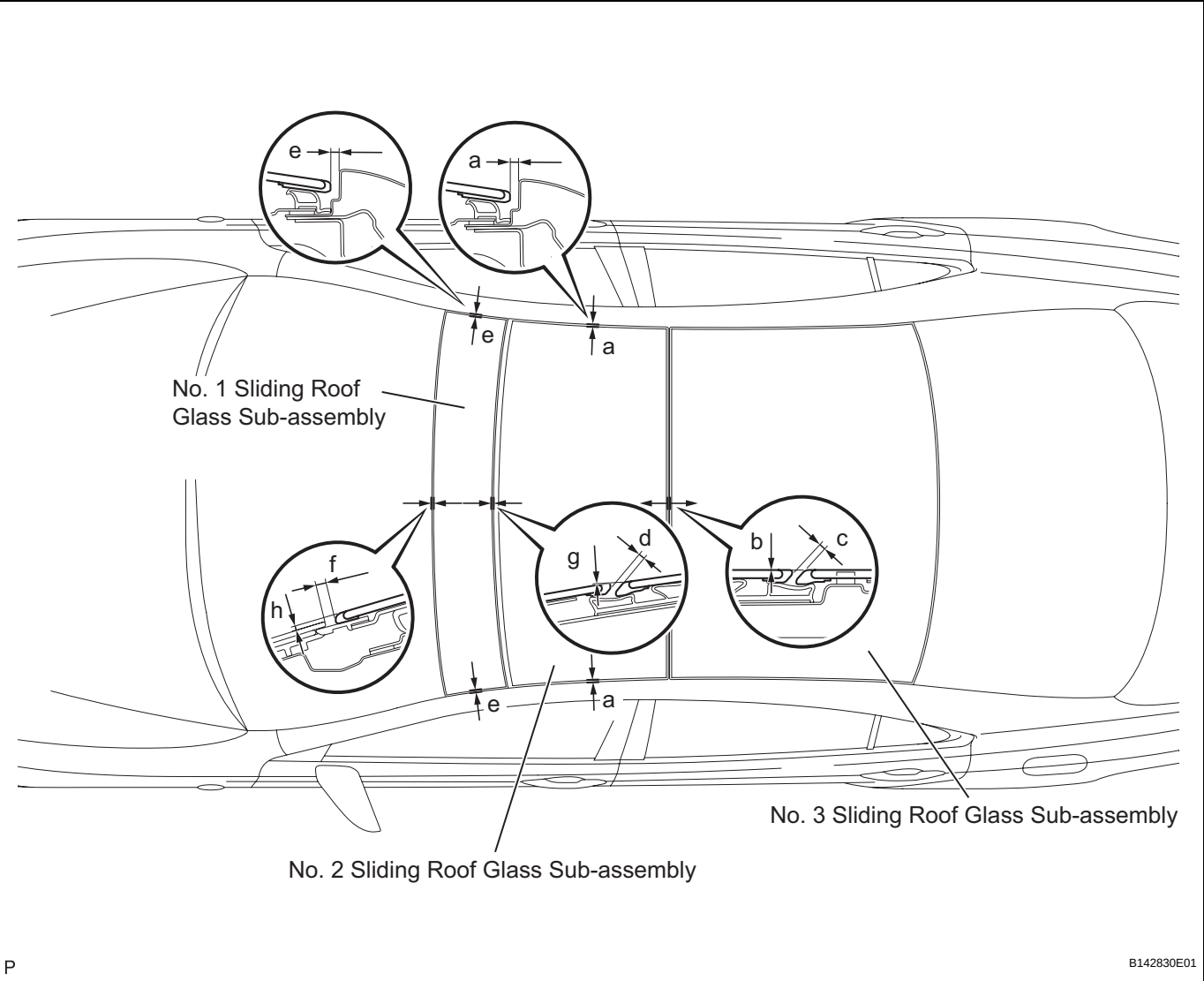
89. TEMPORARILY TIGHTEN NO. 1 SLIDING ROOF GLASS SUB-ASSEMBLY

- (a) Fully open the No. 2 sliding roof glass sub-assembly.
- (b) Using a T20 "TORX" driver, install the No. 1 sliding roof glass sub-assembly with the 6 screws.



90. ADJUST SLIDING ROOF GLASS SUB-ASSEMBLY
(NO. 1, NO. 2)

(a) Adjust the No. 2 sliding roof glass sub-assembly:



- (1) Adjust the position of the No. 2 sliding roof glass sub-assembly so that the measurements are within the standard values shown in the illustration.

Standard

Area	Measurement
a	4.0 mm + 2.0 mm (0.158 in. + 0.079 in.) 4.0 mm - 2.0 mm (0.158 in. - 0.079 in.)
b	0 + 1.5 mm (0 + 0.059 in.) 0 - 0.5 mm (0 - 0.020 in.)
c	3.0 mm
d	3.0 mm

HINT:

"+" represents the condition that the glass is above the panel level. "-" represents the condition that the glass is below the panel level.

- (2) After adjusting the No. 2 sliding roof glass sub-assembly, using a T25 "TORX" driver, fully tighten the 6 screws to install the No. 2 sliding roof glass sub-assembly.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

- (b) Adjust the No. 1 sliding roof glass sub-assembly:

- (1) Adjust the position of the No. 1 sliding roof glass sub-assembly so that the measurements are within the standard values shown in the illustration.

Standard

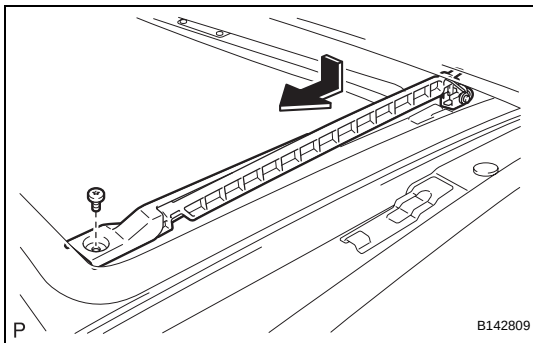
Area	Measurement
e	4.0 mm + 2.0 mm (0.158 in. + 0.079 in.) 4.0 mm - 2.0 mm (0.158 in. - 0.079 in.)
f	5.1 mm + 1.7 mm (0.201 in. + 0.067 in.) 5.1 mm - 1.7 mm (0.201 in. - 0.067 in.)
g	0 + 1.5 mm (0 + 0.059 in.) 0 - 0.5 mm (0 - 0.020 in.)
h	2.0 mm

HINT:

"+" represents the condition that the glass is above the panel level. "-" represents the condition that the glass is below the panel level.

- (2) After adjusting the No. 1 sliding roof glass sub-assembly, using a T20 "TORX" driver, fully tighten the 6 screws to install the No. 1 sliding roof glass sub-assembly.

Torque: 2.0 N*m (20 kgf*cm, 18 in.*lbf)



91. INSTALL SLIDING ROOF SIDE GARNISH LH

- (a) Temporarily install the sliding roof side garnish LH as shown in the illustration.
- (b) Using a T20 "TORX" driver, install the sliding roof side garnish LH with the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

92. INSTALL SLIDING ROOF SIDE GARNISH RH

HINT:

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

93. INSPECT FOR WATER LEAKS

- (a) After adjusting the sliding roof glass sub-assembly, inspect for water leaks.
- (b) If there are any leaks, readjust the sliding roof glass sub-assembly.

94. PERFORM INITIALIZATION

NOTICE:

Some systems need initialization after reconnecting the cable to the negative battery terminal (See page [IN-33](#)).

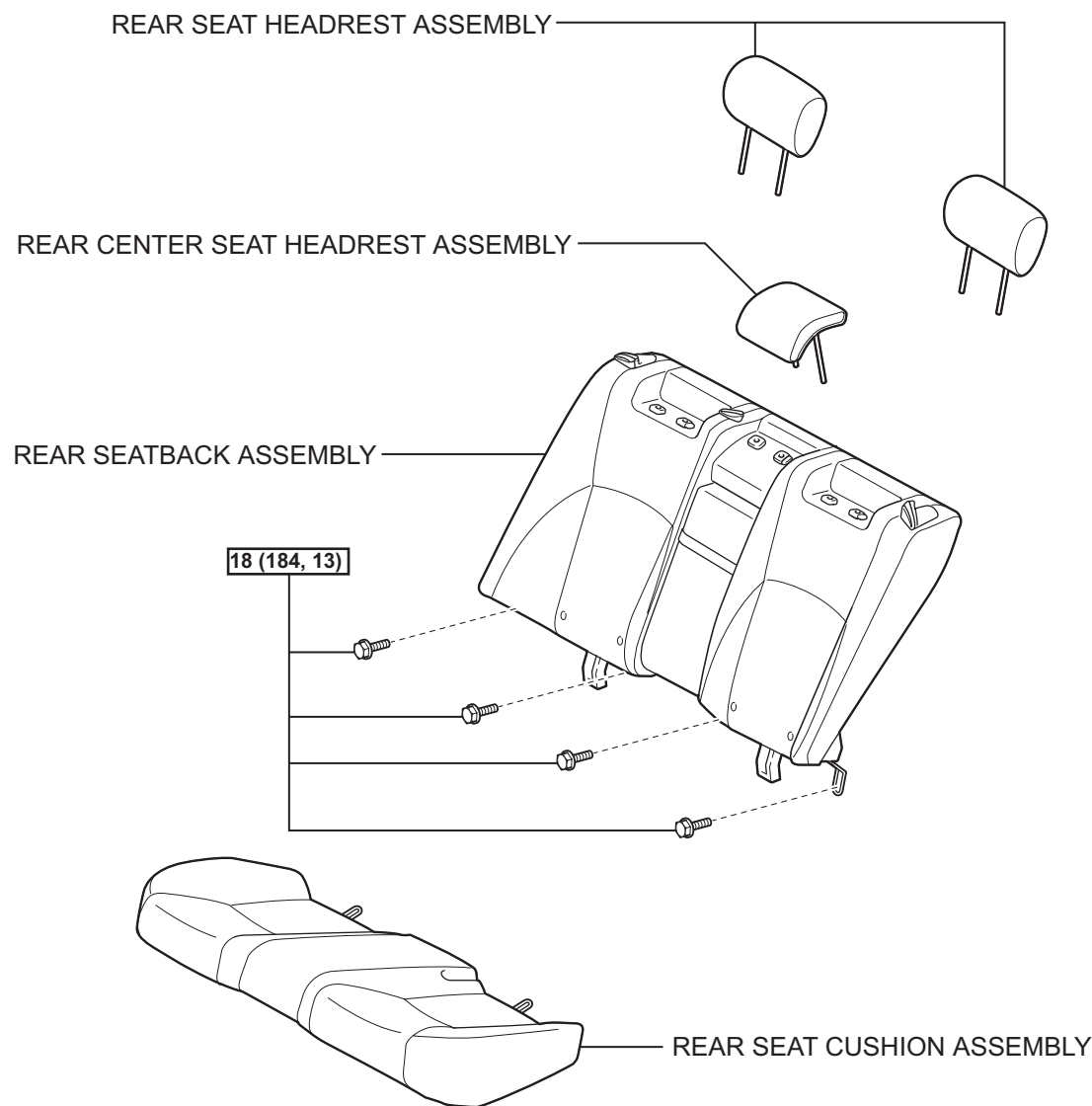
95. RESET SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

(See page [RF-6](#))

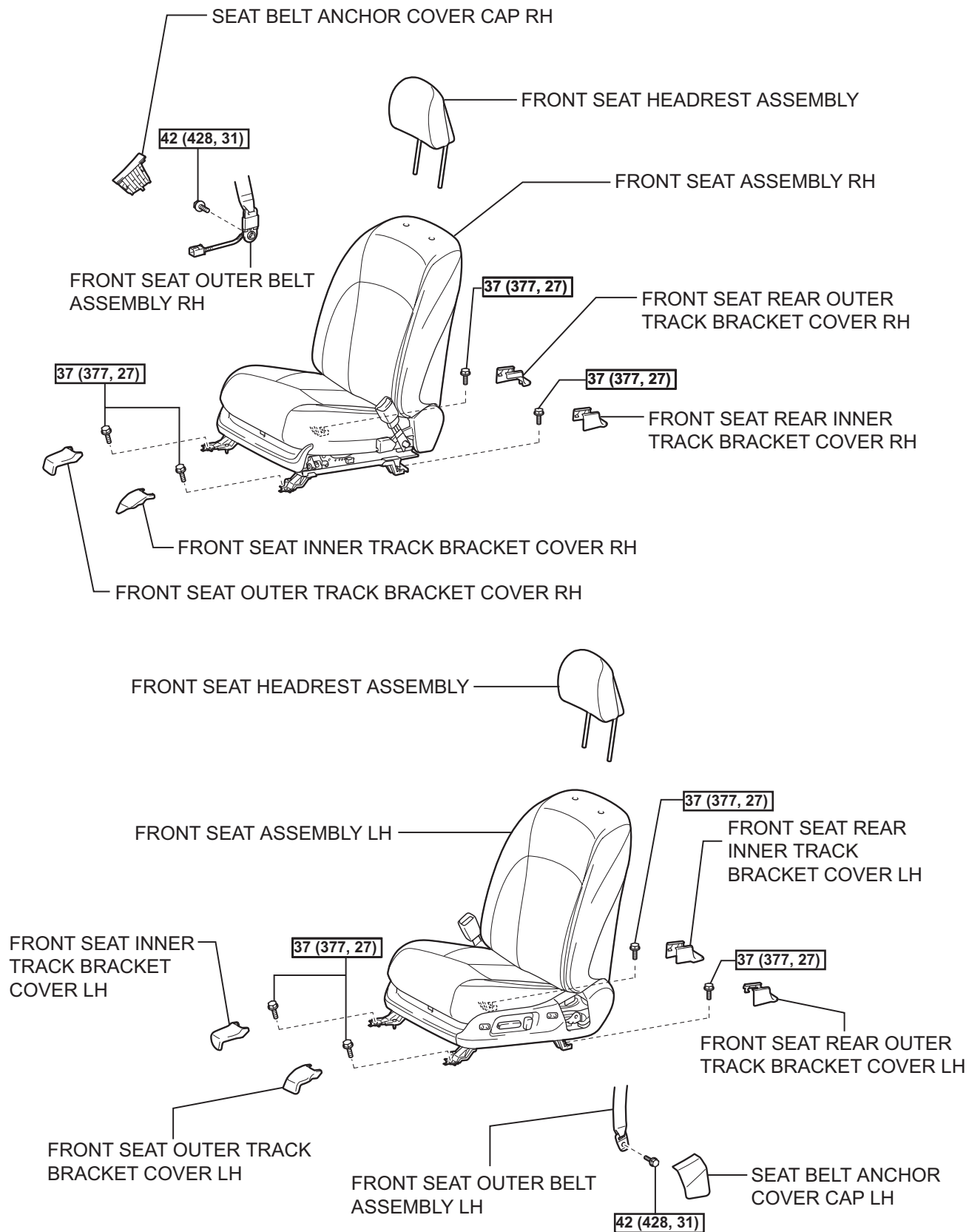
96. INSPECT SLIDING ROOF SYSTEM(See page [RF-12](#))**97. INSPECT SHIFT LEVER POSITION (See page [AX-200](#))****98. ADJUST SHIFT LEVER POSITION (See page [AX-200](#))****99. INSPECT FRONT SEAT ASSEMBLY (See page [SE-110](#))****100. INSPECT SRS WARNING LIGHT**(See page [RS-37](#))

SLIDING ROOF HOUSING (for Standard)

COMPONENTS

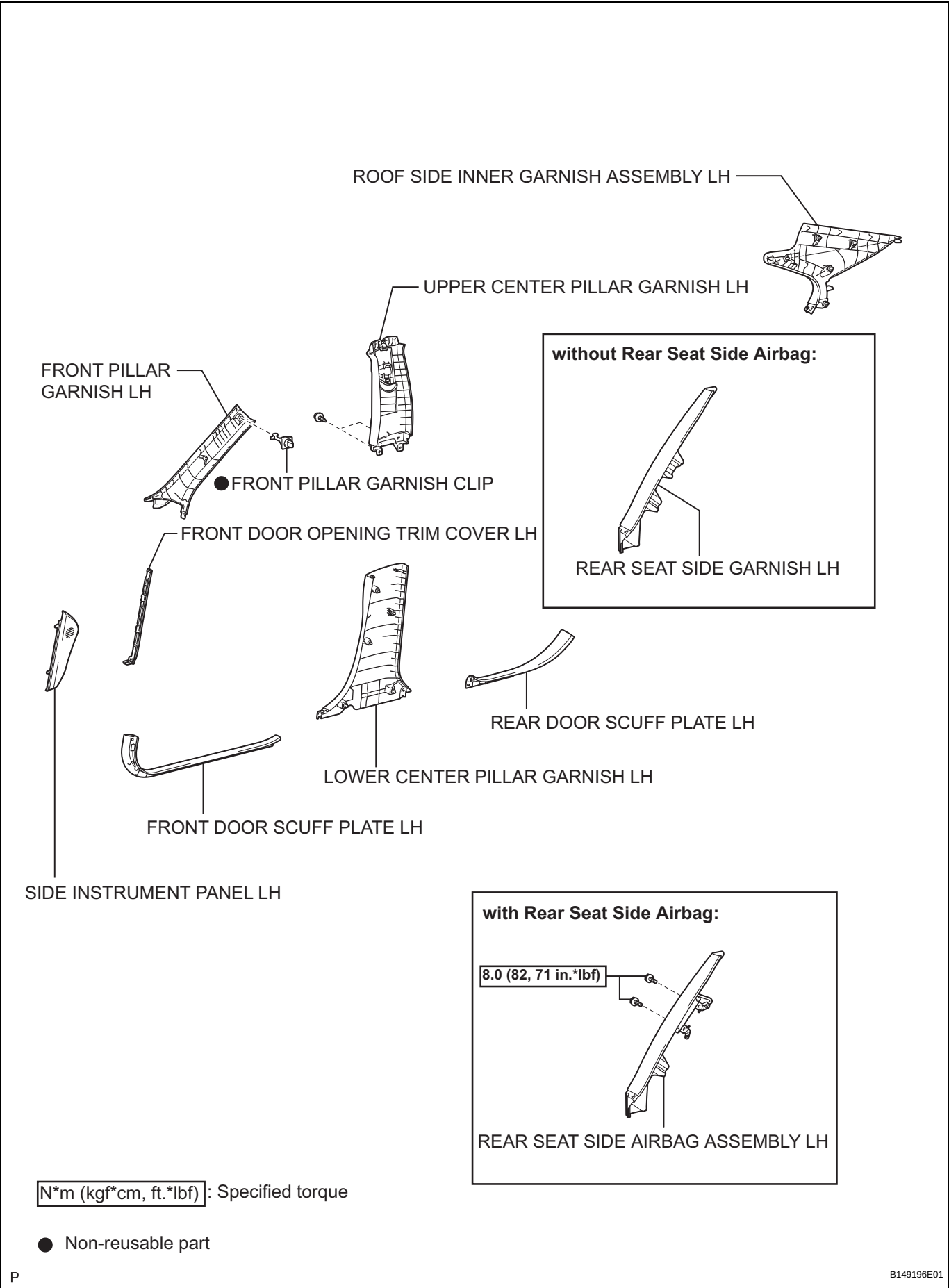


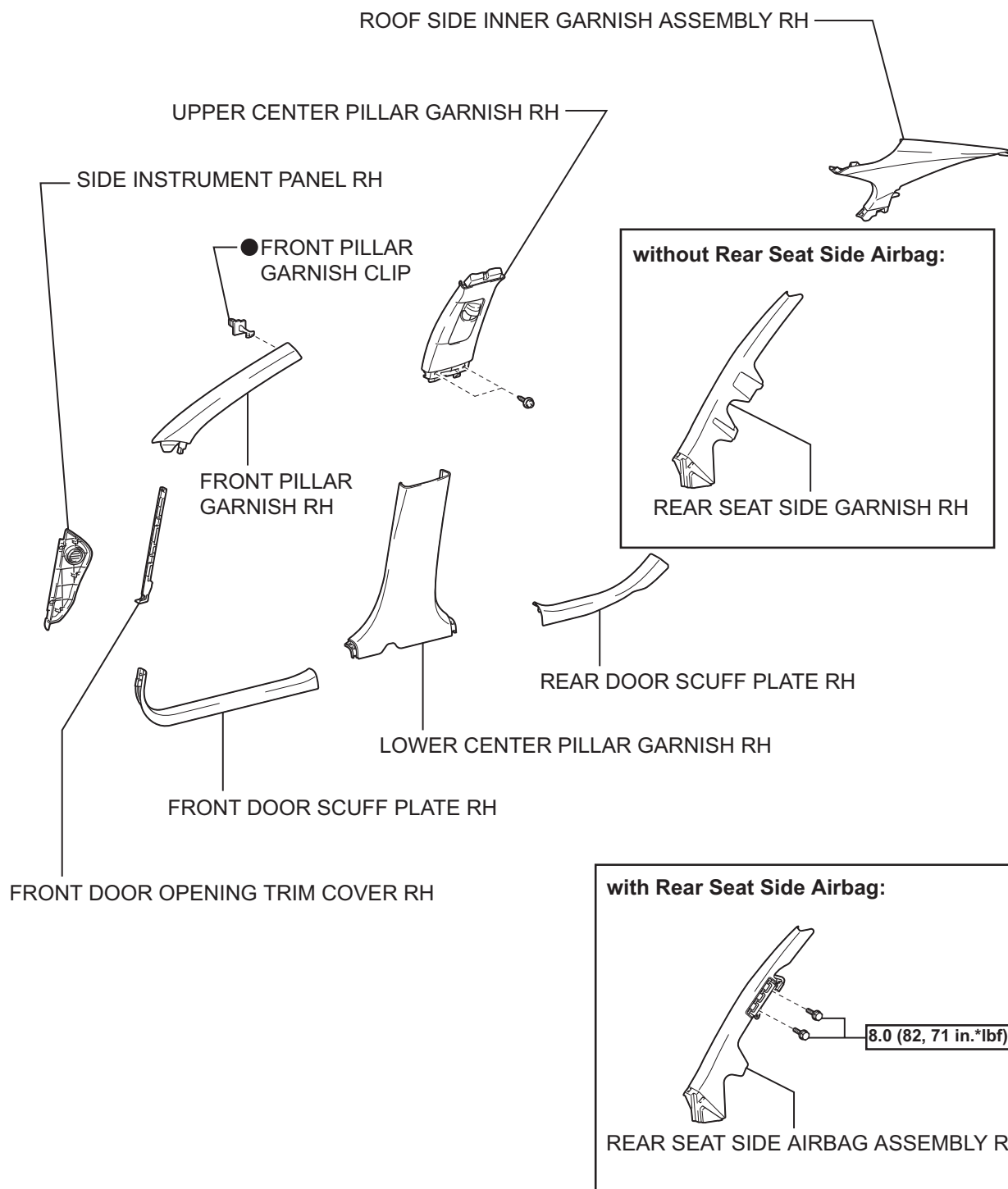
N*m (kgf*cm, ft.*lbf) : Specified torque



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

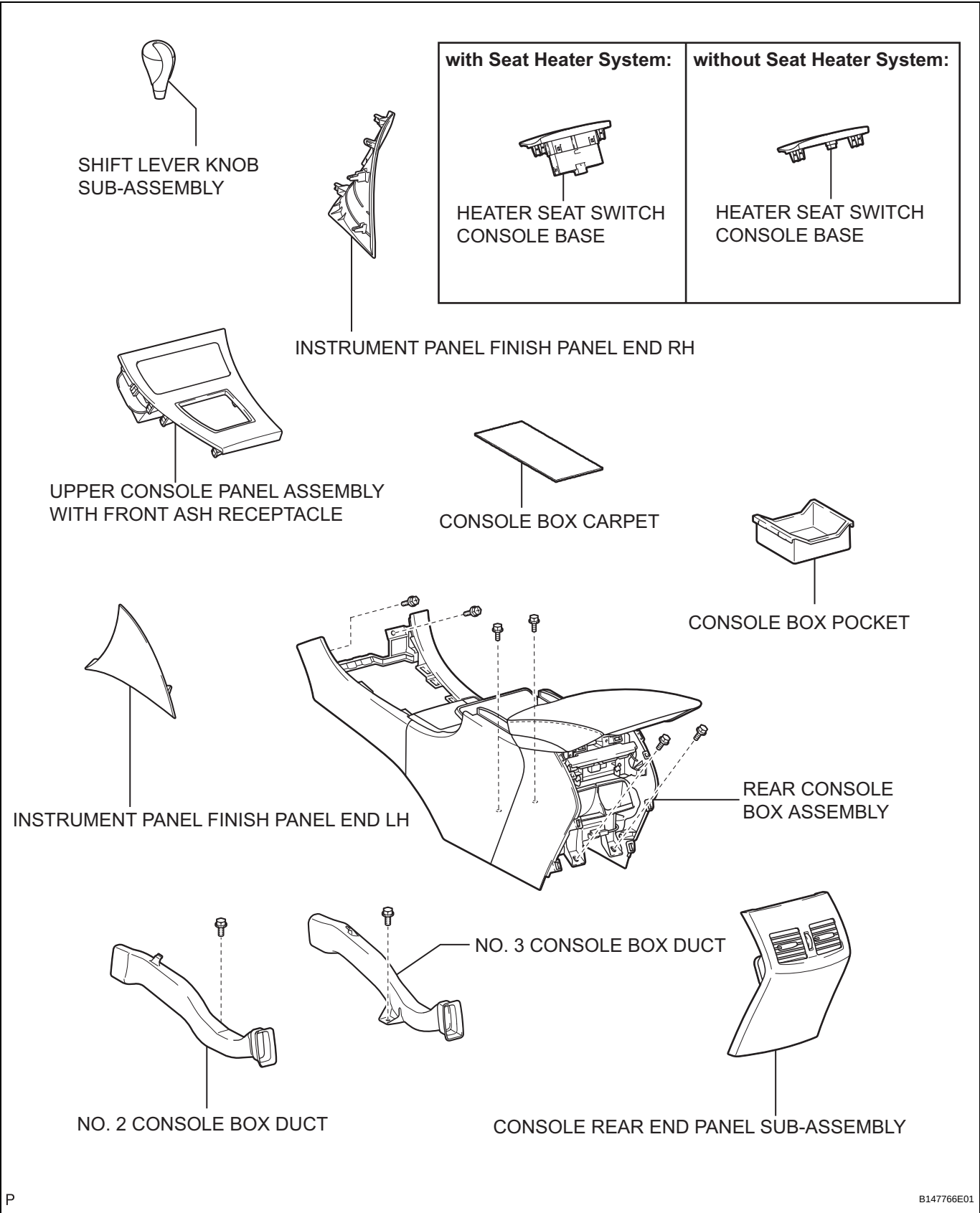
RF

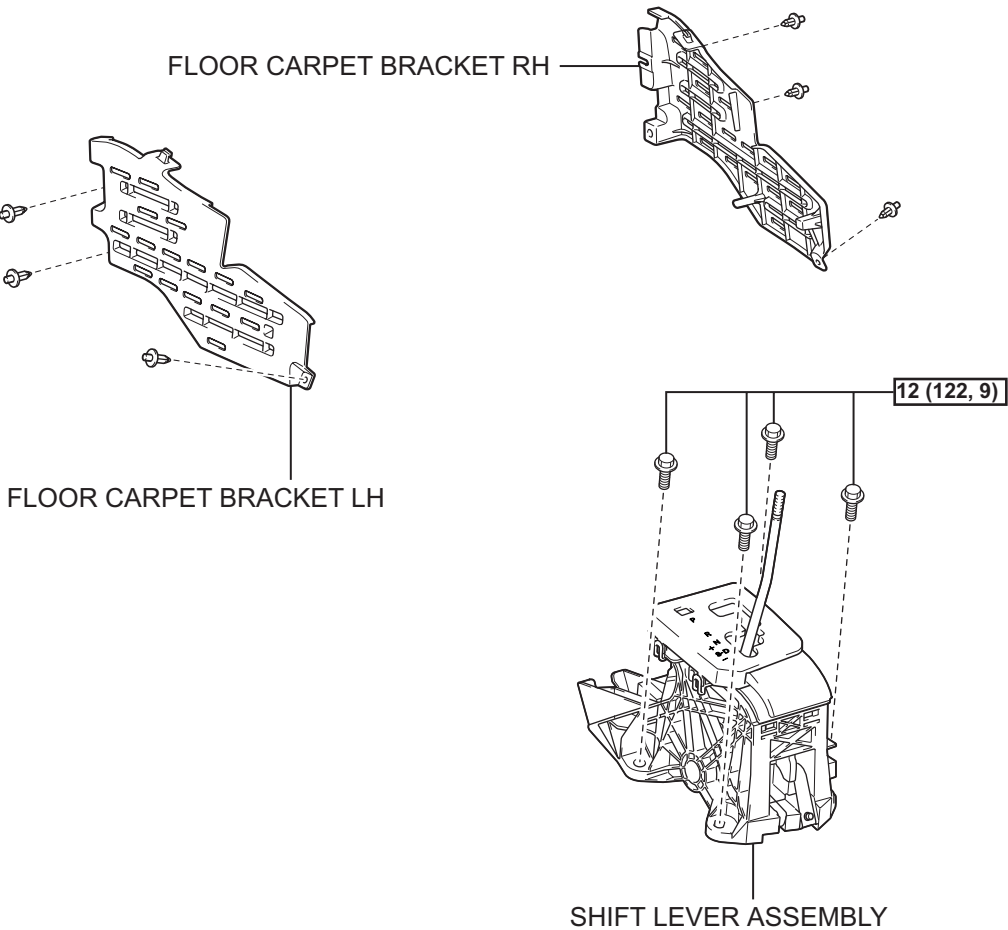




[N*m (kgf*cm, ft.*lbf)]: Specified torque

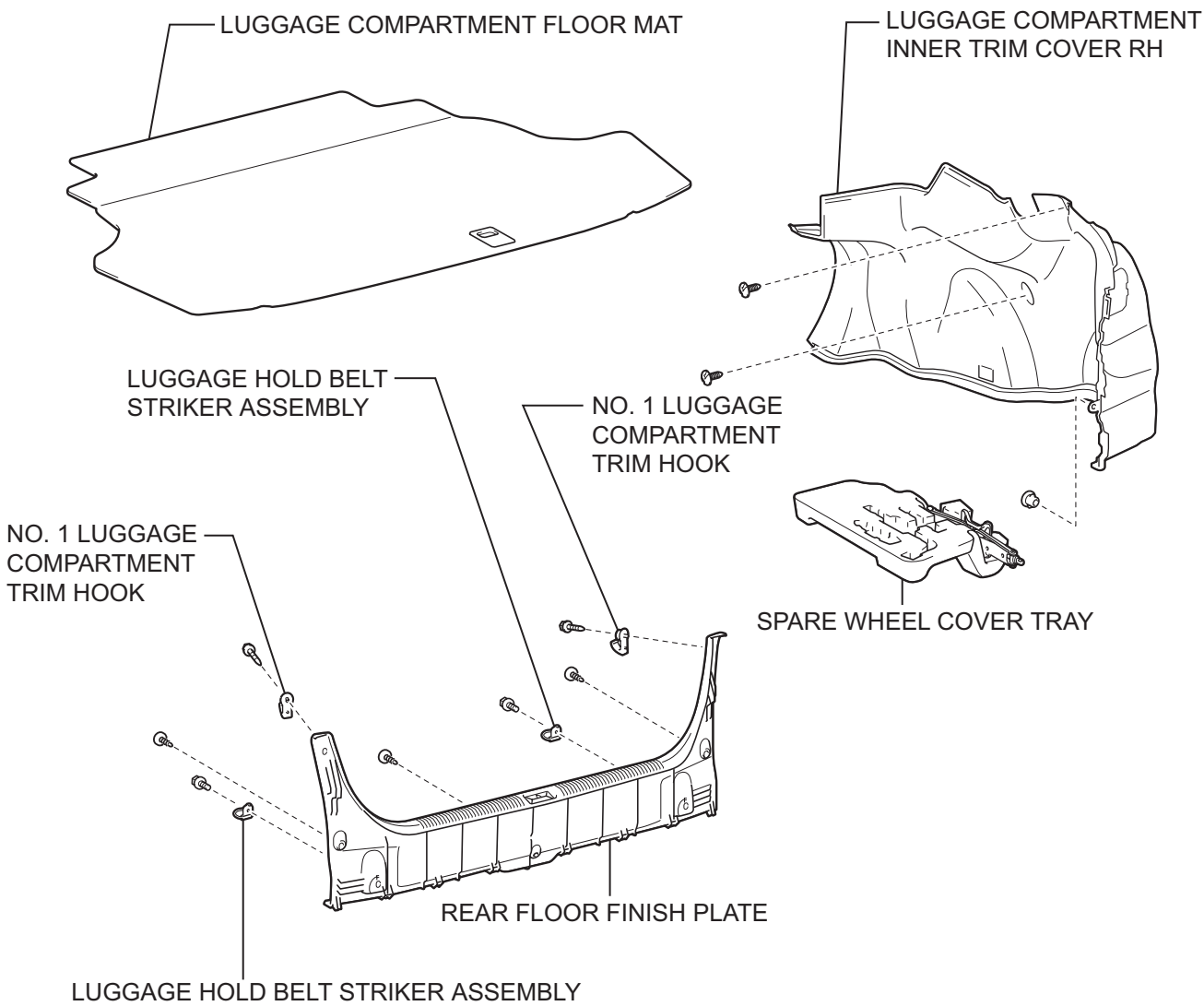
● Non-reusable part

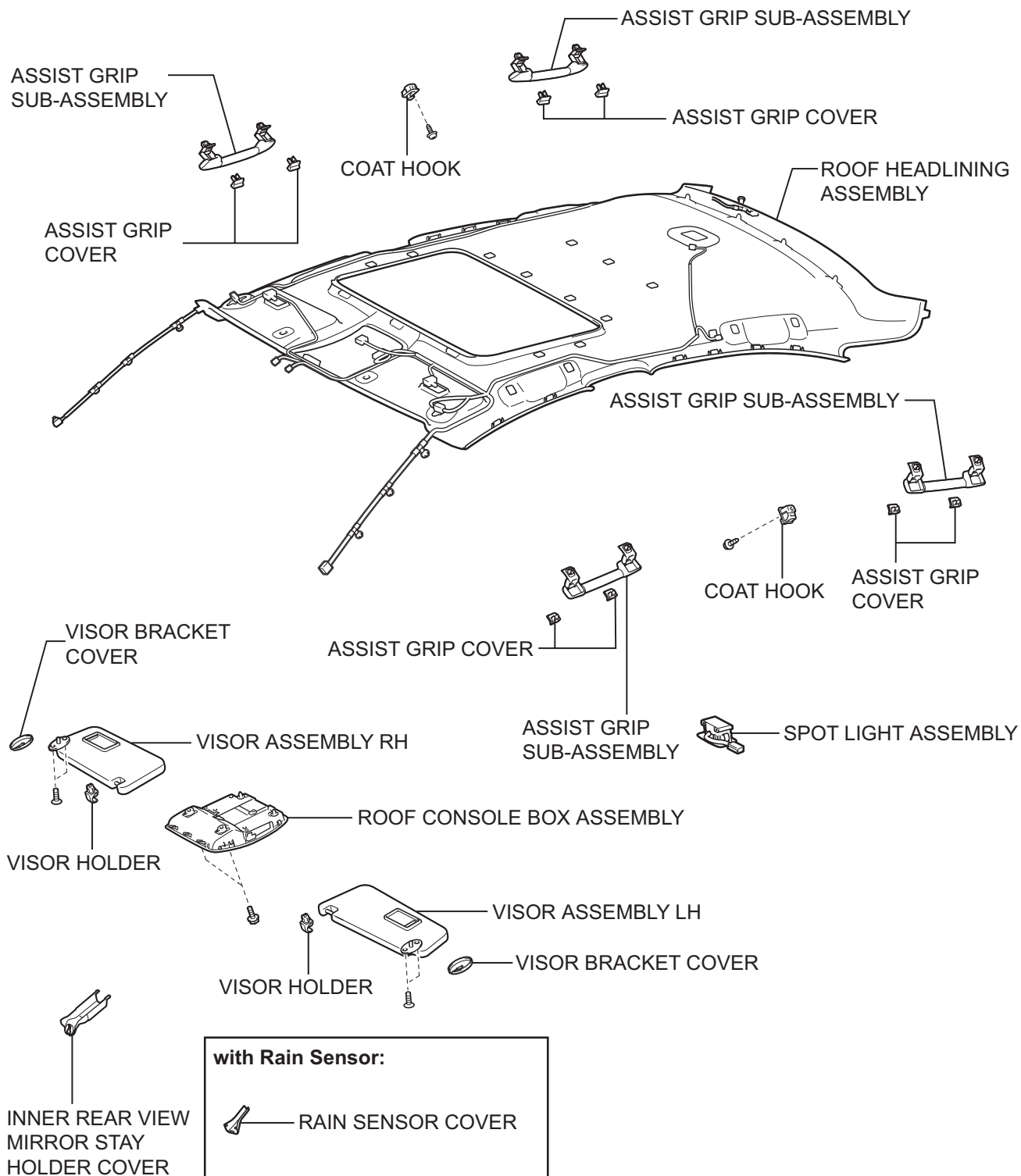


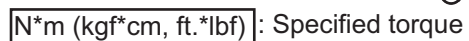


12 (122, 9): Specified torque

with DVD Player:



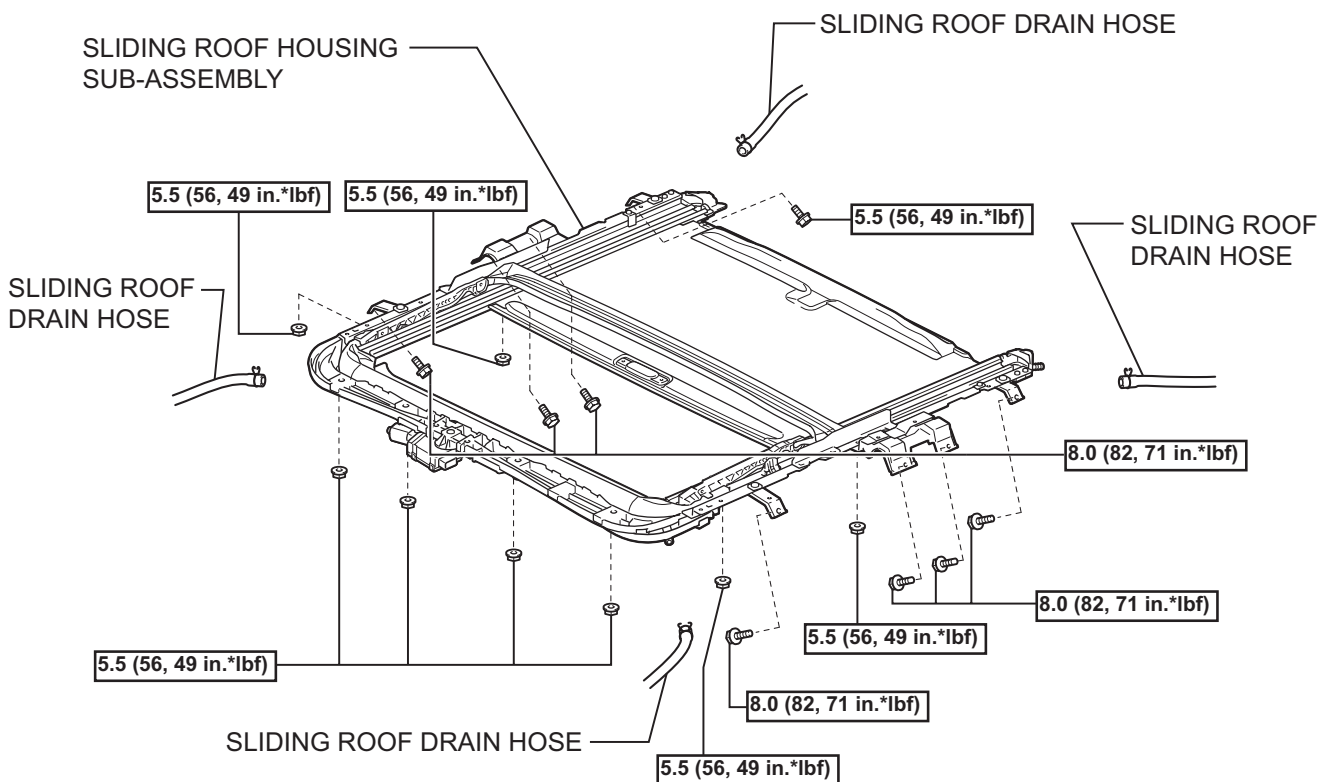
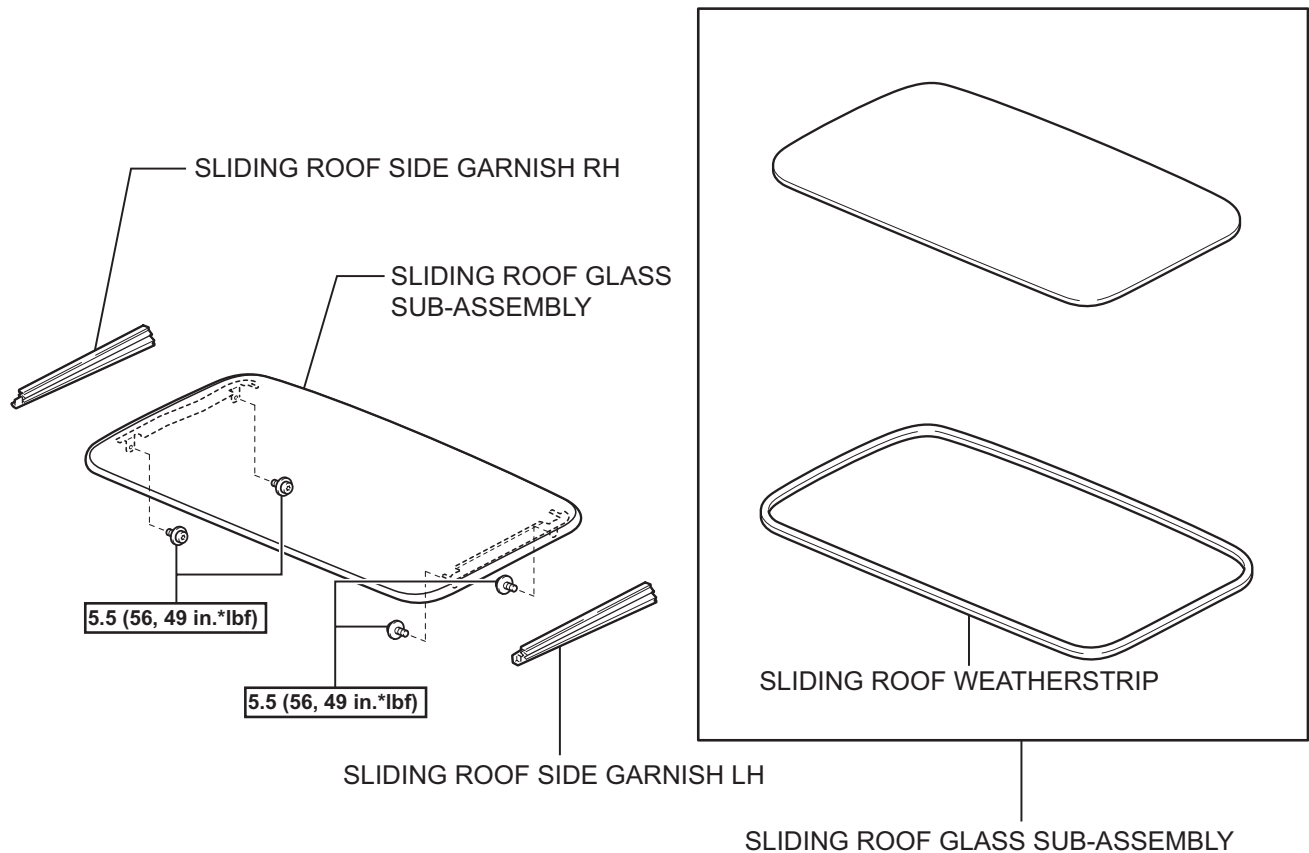




- Non-reusable part

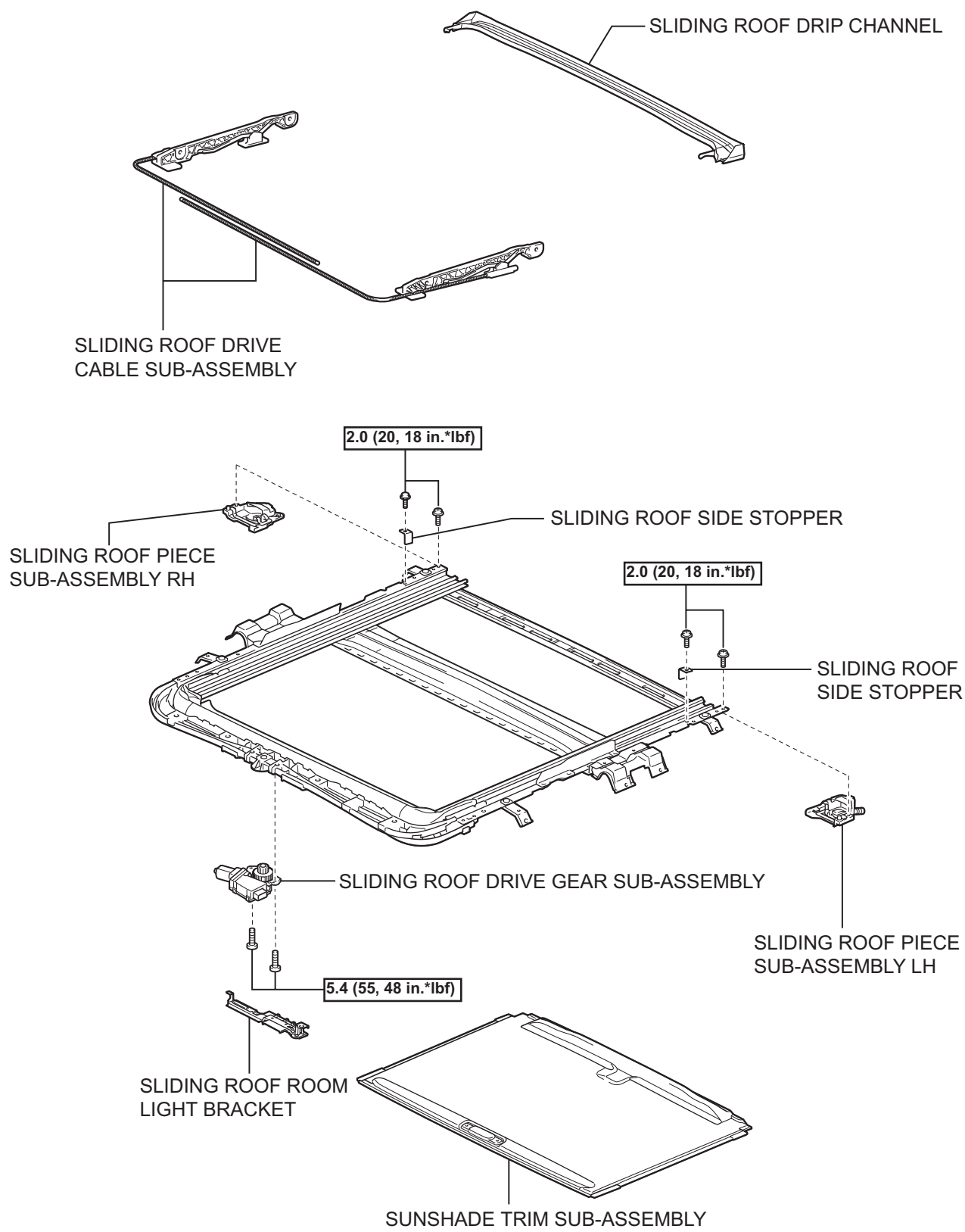
P

B142794E01



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

RF



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

RF

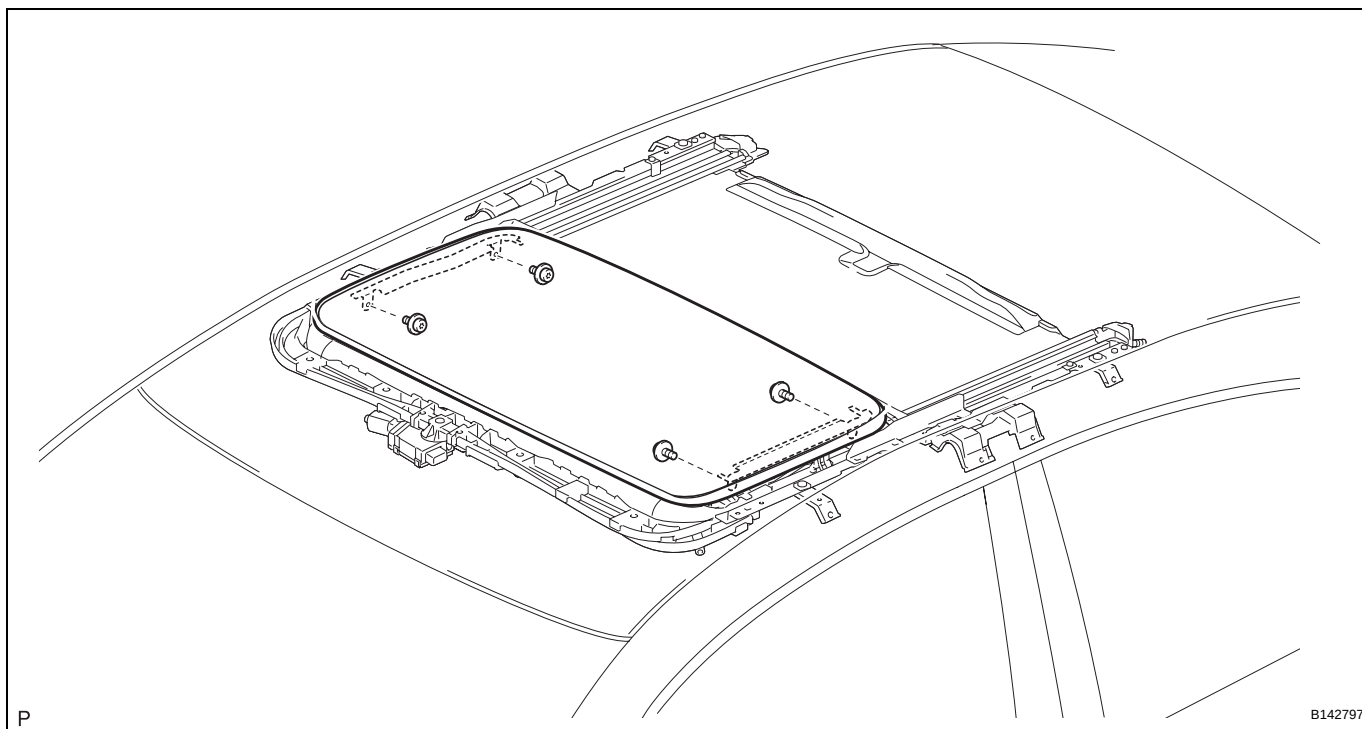
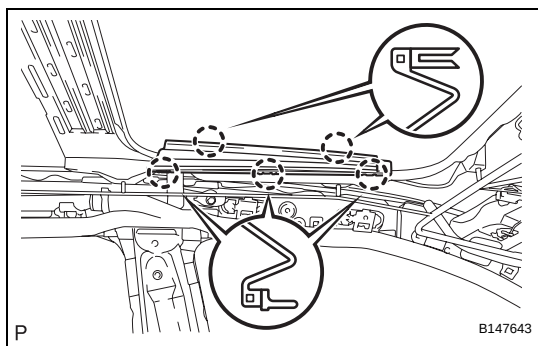
REMOVAL

1. REMOVE REAR SEAT CUSHION ASSEMBLY (See page [SE-113](#))
2. REMOVE REAR SEAT HEADREST ASSEMBLY
3. REMOVE REAR CENTER SEAT HEADREST ASSEMBLY
4. REMOVE REAR SEATBACK ASSEMBLY (See page [SE-113](#))
5. REMOVE SEAT BELT ANCHOR COVER CAP LH (See page [SB-22](#))
6. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY LH (See page [SB-22](#))
7. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Driver Seat)
8. REMOVE FRONT SEAT OUTER TRACK BRACKET COVER LH (See page [SE-83](#))
9. REMOVE FRONT SEAT INNER TRACK BRACKET COVER LH (See page [SE-83](#))
10. REMOVE FRONT SEAT REAR OUTER TRACK BRACKET COVER LH (See page [SE-83](#))
11. REMOVE FRONT SEAT REAR INNER TRACK BRACKET COVER LH (See page [SE-83](#))
12. REMOVE FRONT SEAT ASSEMBLY LH (See page [SE-83](#))
13. REMOVE SEAT BELT ANCHOR COVER CAP RH (See page [RS-490](#))
14. DISCONNECT FRONT SEAT OUTER BELT ASSEMBLY RH (See page [RS-490](#))
15. REMOVE FRONT SEAT HEADREST ASSEMBLY (for Front Passenger Seat)
16. REMOVE FRONT SEAT OUTER TRACK BRACKET COVER RH (See page [RS-490](#))
17. REMOVE FRONT SEAT INNER TRACK BRACKET COVER RH (See page [RS-490](#))
18. REMOVE FRONT SEAT REAR OUTER TRACK BRACKET COVER RH (See page [RS-490](#))
19. REMOVE FRONT SEAT REAR INNER TRACK BRACKET COVER RH (See page [RS-490](#))
20. REMOVE FRONT SEAT ASSEMBLY RH (See page [RS-491](#))
21. REMOVE FRONT DOOR SCUFF PLATE LH (See page [IR-39](#))
22. REMOVE FRONT DOOR OPENING TRIM COVER LH (See page [IR-39](#))

23. REMOVE SIDE INSTRUMENT PANEL LH (See page [IP-12](#))
24. REMOVE FRONT PILLAR GARNISH LH (See page [IR-39](#))
25. REMOVE REAR DOOR SCUFF PLATE LH (See page [IR-40](#))
26. REMOVE LOWER CENTER PILLAR GARNISH LH (See page [IR-40](#))
27. REMOVE UPPER CENTER PILLAR GARNISH LH (See page [IR-41](#))
28. REMOVE REAR SEAT SIDE GARNISH LH (w/o Rear Seat Side Airbag) (See page [IR-41](#))
29. REMOVE REAR SEAT SIDE AIRBAG ASSEMBLY LH (w/ Rear Seat Side Airbag) (See page [RS-460](#))
30. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY LH (See page [IR-42](#))
31. REMOVE FRONT DOOR SCUFF PLATE RH (See page [IR-42](#))
32. REMOVE FRONT DOOR OPENING TRIM COVER RH (See page [IR-42](#))
33. REMOVE SIDE INSTRUMENT PANEL RH (See page [IP-15](#))
34. REMOVE FRONT PILLAR GARNISH RH (See page [IR-42](#))
35. REMOVE REAR DOOR SCUFF PLATE RH (See page [IR-42](#))
36. REMOVE LOWER CENTER PILLAR GARNISH RH (See page [IR-42](#))
37. REMOVE UPPER CENTER PILLAR GARNISH RH (See page [IR-42](#))
38. REMOVE REAR SEAT SIDE GARNISH RH (w/o Rear Seat Side Airbag) (See page [IR-43](#))
39. REMOVE REAR SEAT SIDE AIRBAG ASSEMBLY RH (w/ Rear Seat Side Airbag) (See page [IR-43](#))
40. REMOVE ROOF SIDE INNER GARNISH ASSEMBLY RH (See page [IR-43](#))
41. REMOVE INSTRUMENT PANEL FINISH PANEL END LH (See page [IP-13](#))
42. REMOVE INSTRUMENT PANEL FINISH PANEL END RH (See page [IP-15](#))
43. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (See page [IP-16](#))
44. REMOVE UPPER CONSOLE PANEL ASSEMBLY WITH FRONT ASH RECEPTACLE (See page [IP-16](#))

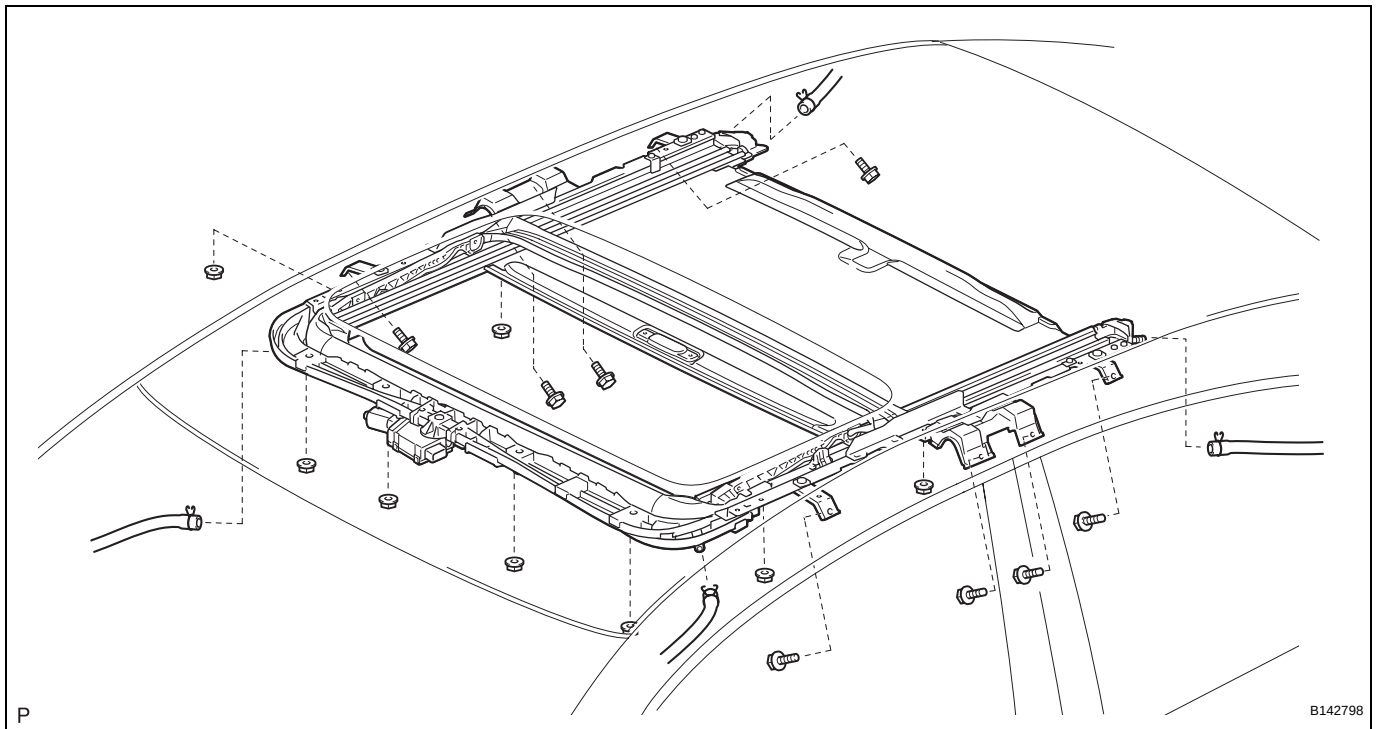
45. REMOVE HEATER SEAT SWITCH CONSOLE BASE (w/o Seat Heater System) (See page [IP-17](#))
46. REMOVE HEATER SEAT SWITCH CONSOLE BASE (w/ Seat Heater System) (See page [IP-18](#))
47. REMOVE CONSOLE BOX POCKET (See page [IP-52](#))
48. REMOVE CONSOLE BOX CARPET (See page [IP-52](#))
49. REMOVE CONSOLE REAR END PANEL SUB-ASSEMBLY (See page [IP-53](#))
50. REMOVE REAR CONSOLE BOX ASSEMBLY (See page [IP-53](#))
51. REMOVE NO. 2 CONSOLE BOX DUCT (See page [AC-149](#))
52. REMOVE NO. 3 CONSOLE BOX DUCT (See page [AC-149](#))
53. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (See page [AX-232](#))
54. REMOVE SHIFT LEVER ASSEMBLY (See page [AX-233](#))
55. REMOVE FLOOR CARPET BRACKET LH (See page [AC-148](#))
56. REMOVE FLOOR CARPET BRACKET RH (See page [AC-148](#))
57. REMOVE LUGGAGE COMPARTMENT FLOOR MAT (w/ DVD Player)
58. REMOVE SPARE WHEEL COVER TRAY (w/ DVD Player)
59. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (w/ DVD Player) (See page [ED-82](#))
60. REMOVE NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (w/ DVD Player) (See page [ED-83](#))
61. REMOVE REAR FLOOR FINISH PLATE (w/ DVD Player) (See page [ED-83](#))
62. REMOVE LUGGAGE COMPARTMENT INNER TRIM COVER RH (w/ DVD Player) (See page [ED-83](#))
63. DISCONNECT STEREO COMPONENT AMPLIFIER ASSEMBLY CONNECTOR (w/ DVD Player) (See page [IR-44](#))
64. REMOVE INNER REAR VIEW MIRROR STAY HOLDER COVER (See page [MI-42](#))
65. REMOVE RAIN SENSOR COVER (w/ Rain Sensor) (See page [WW-63](#))
66. REMOVE ROOF CONSOLE BOX ASSEMBLY (See page [IR-44](#))
67. REMOVE VISOR BRACKET COVER (See page [IR-45](#))

- 68. REMOVE VISOR ASSEMBLY LH (See page [IR-45](#))
- 69. REMOVE VISOR ASSEMBLY RH (See page [IR-45](#))
- 70. REMOVE VISOR HOLDER (See page [IR-45](#))
- 71. REMOVE COAT HOOK (See page [IR-45](#))
- 72. REMOVE SPOT LIGHT ASSEMBLY (See page [IR-46](#))
- 73. REMOVE ASSIST GRIP SUB-ASSEMBLY (See page [IR-47](#))
- 74. REMOVE ROOF HEADLINING ASSEMBLY (See page [IR-47](#))
- 75. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH (See page [RS-439](#))
- 76. REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY RH
HINT:
Use the same procedure for the RH side and the LH side.
- 77. REMOVE SLIDING ROOF SIDE GARNISH LH
(a) Disengage the 5 claws and remove the sliding roof side garnish LH.
- 78. REMOVE SLIDING ROOF SIDE GARNISH RH
HINT:
Use the same procedure for the RH side and the LH side.
- 79. REMOVE SLIDING ROOF GLASS SUB-ASSEMBLY
(a) Using a T25 "TORX" driver, remove the 4 screws and sliding roof glass sub-assembly.



- 80. REMOVE SLIDING ROOF HOUSING SUB-ASSEMBLY
(a) Disconnect the 4 sliding roof drain hoses.

- (b) Remove the 8 bolts, 8 nuts, and sliding roof housing sub-assembly.



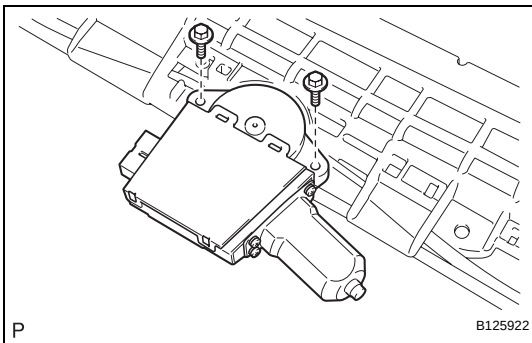
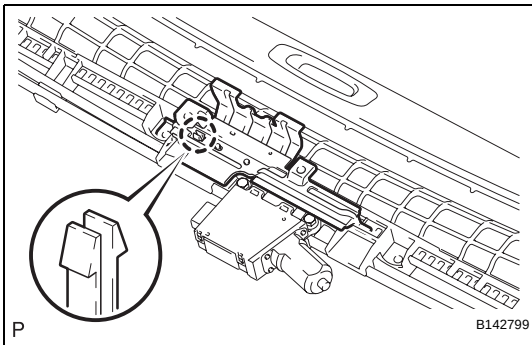
81. REMOVE SLIDING ROOF WEATHERSTRIP

- (a) Remove the sliding roof weatherstrip from the sliding roof glass sub-assembly.

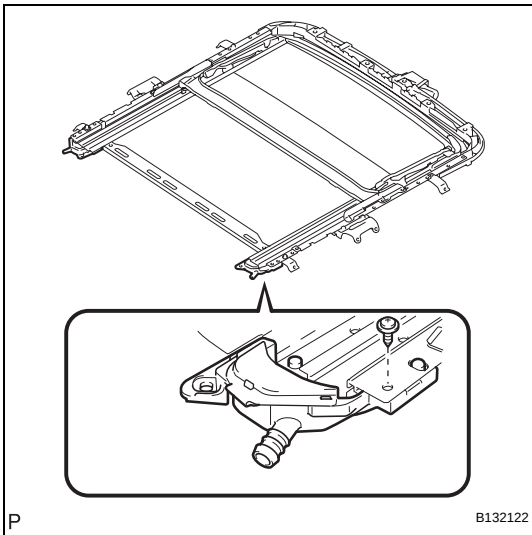
DISASSEMBLY

1. REMOVE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

- (a) Disengage the claw and remove the sliding roof room light bracket.



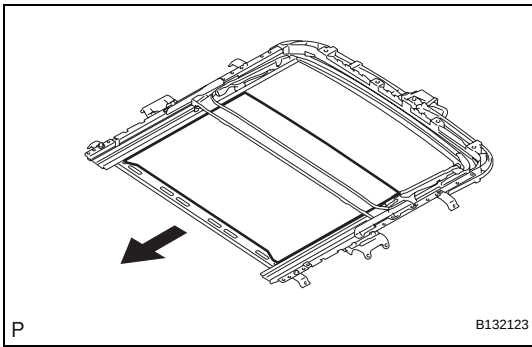
- (b) Remove the 2 bolts and sliding roof drive gear sub-assembly.

**2. REMOVE SUNSHADE TRIM SUB-ASSEMBLY**

- (a) Remove the screw and sliding roof piece sub-assembly LH.

HINT:

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

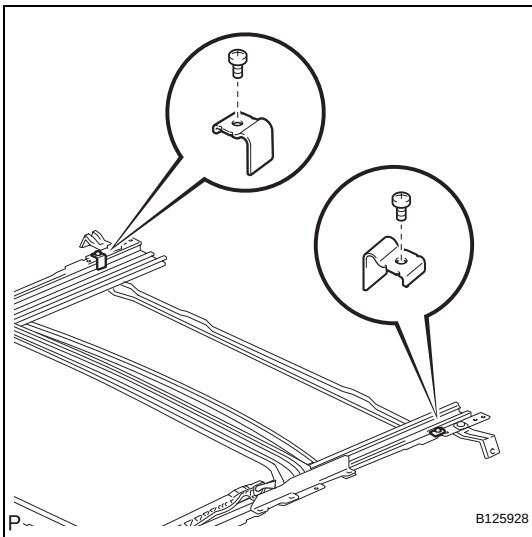


- (b) Slide and remove the sunshade trim sub-assembly.

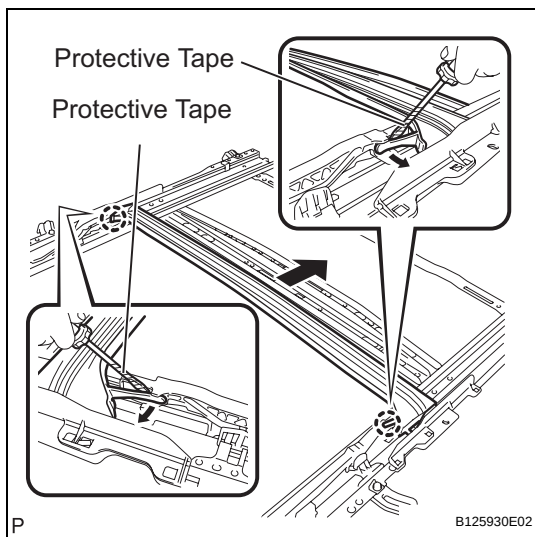
3. REMOVE SLIDING ROOF DRIVE CABLE SUB-ASSEMBLY

NOTICE:

Do not remove the sliding roof drive cable sub-assembly except when replacing it.



- (a) Remove the 2 screws and sliding roof side stoppers.

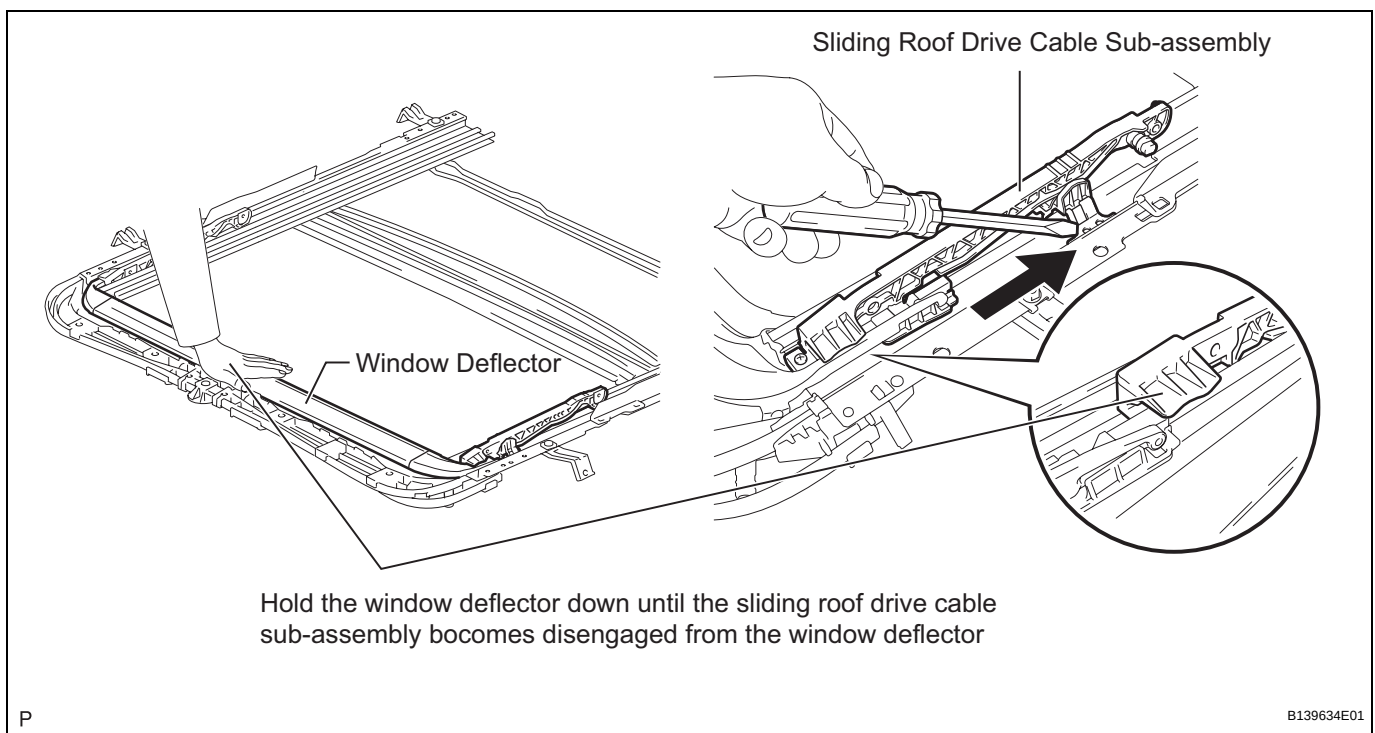


- (b) Using a screwdriver, disengage the 2 claws. Then slide the sliding roof drip channel rearward to remove it.

HINT:

Tape the screwdriver tip before use.

- (c) Using a screwdriver, slide the sliding roof drive cable sub-assembly in the direction indicated by the arrow in the illustration to remove it.



Hold the window deflector down until the sliding roof drive cable sub-assembly becomes disengaged from the window deflector

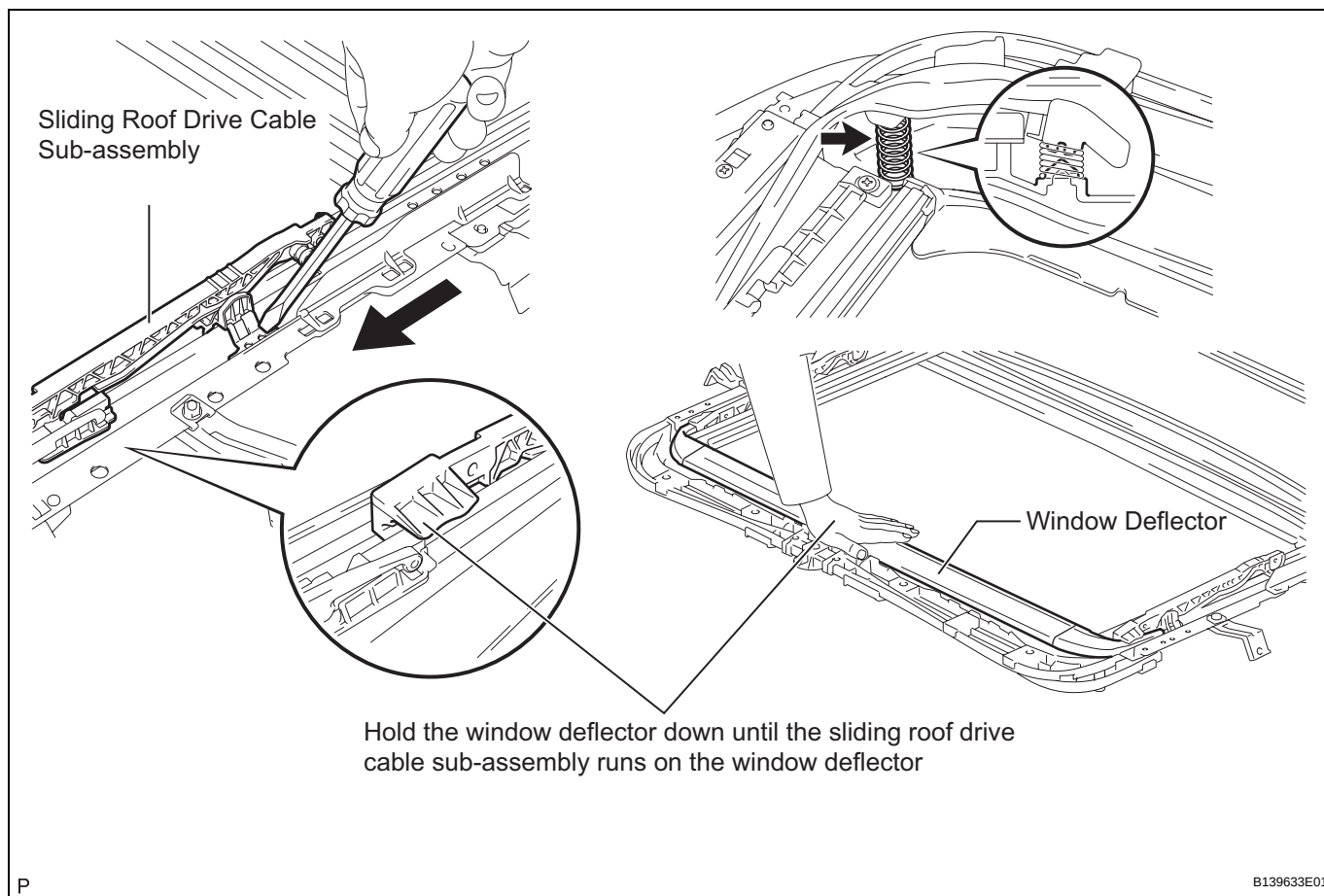
HINT:

Hold the window deflector down, as shown in the illustration, until the sliding roof drive cable sub-assembly becomes disengaged from the window deflector.

REASSEMBLY

1. INSTALL SLIDING ROOF DRIVE CABLE SUB-ASSEMBLY

- (a) Using a screwdriver, slide the sliding roof drive cable sub-assembly in the direction indicated by the arrow in the illustration to install it.



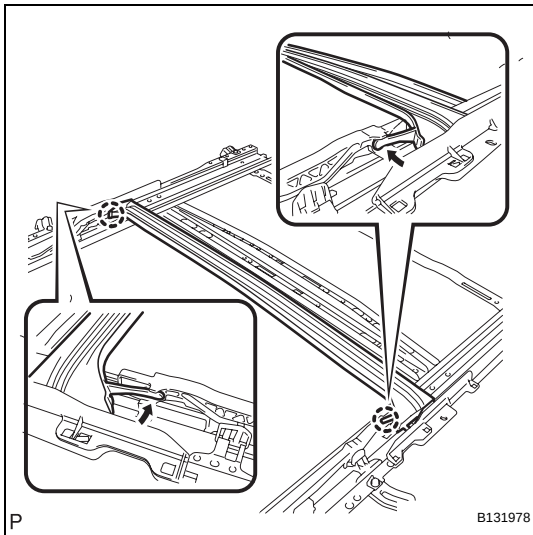
NOTICE:

Make sure that the spring indicated by the arrow in the illustration is securely installed.

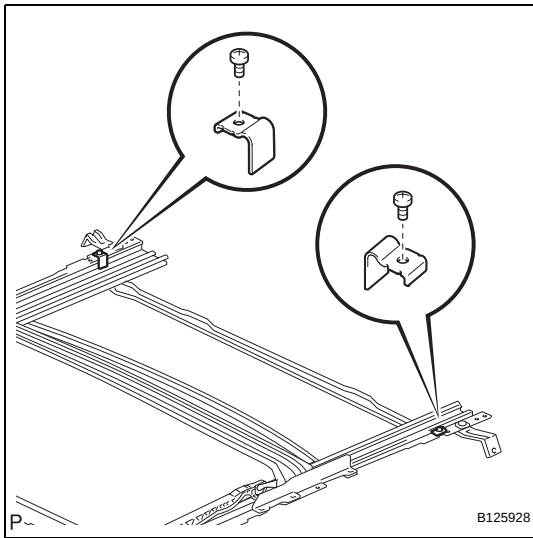
HINT:

Hold the window deflector down, as shown in the illustration, until the sliding roof drive cable sub-assembly runs on the window deflector.

- (b) Using a screwdriver, slide the sliding roof drive cable sub-assembly in the direction indicated by the arrow in the illustration to install it.

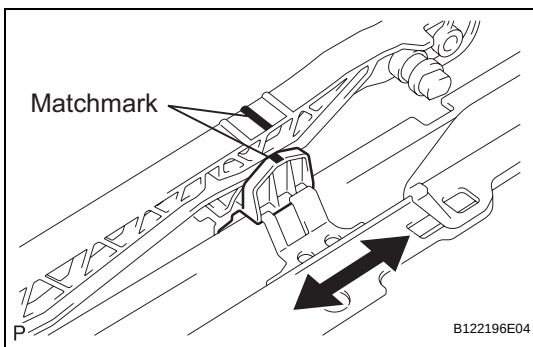


- (c) Engage the 2 claws and install the sliding roof drip channel.



- (d) Install the 2 sliding roof side stoppers with the 2 screws.

Torque: 2.0 N*m (20 kgf*cm, 18 in.*lbf)

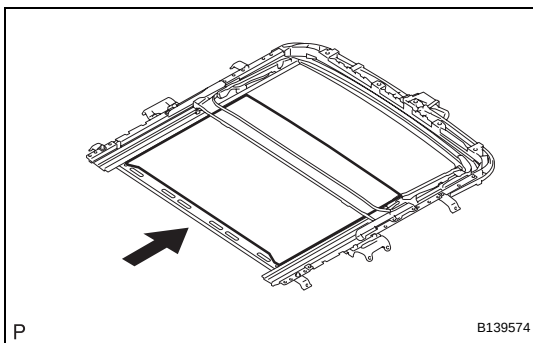


2. ADJUST FULLY CLOSED POSITION

- (a) Using a screwdriver, slide the sliding roof drive cable sub-assembly in either direction as indicated by the arrows in the illustration and align the matchmarks.

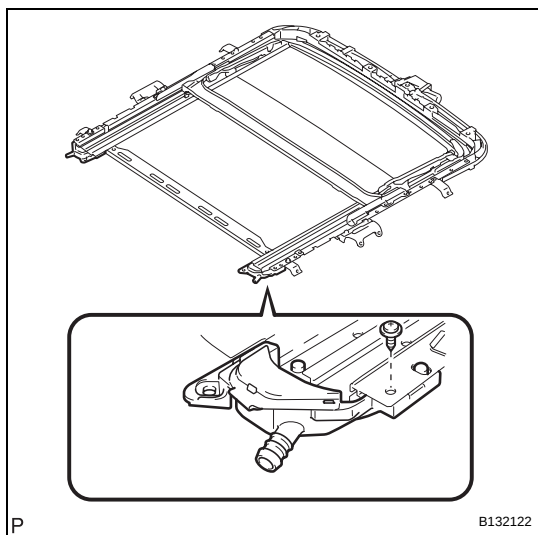
HINT:

Tape the screwdriver tip before use.



3. INSTALL SUNSHADE TRIM SUB-ASSEMBLY

- (a) Insert the sunshade trim into the sliding roof housing sub-assembly.

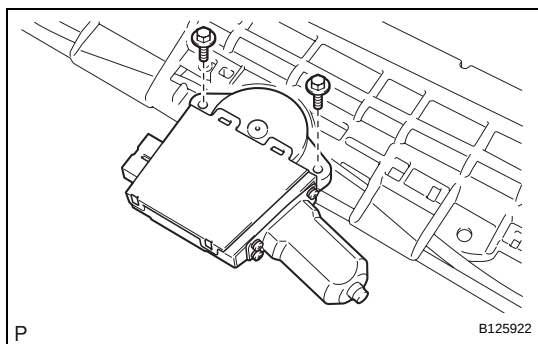


- (b) Install the sliding roof piece sub-assembly LH with the screw.

Torque: 2.0 N*m (20 kgf*cm, 18 in.*lbf)

HINT:

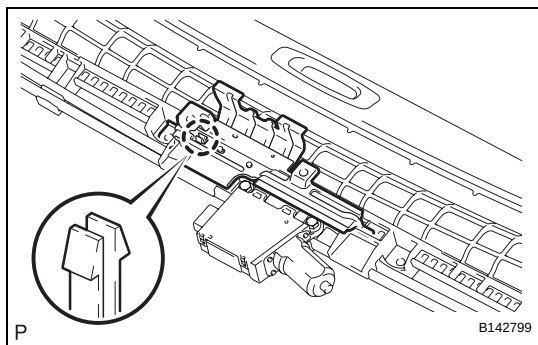
Use the same procedure for the RH side and the LH side.



4. INSTALL SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

- (a) Install the sliding roof drive gear sub-assembly with the 2 bolts.

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

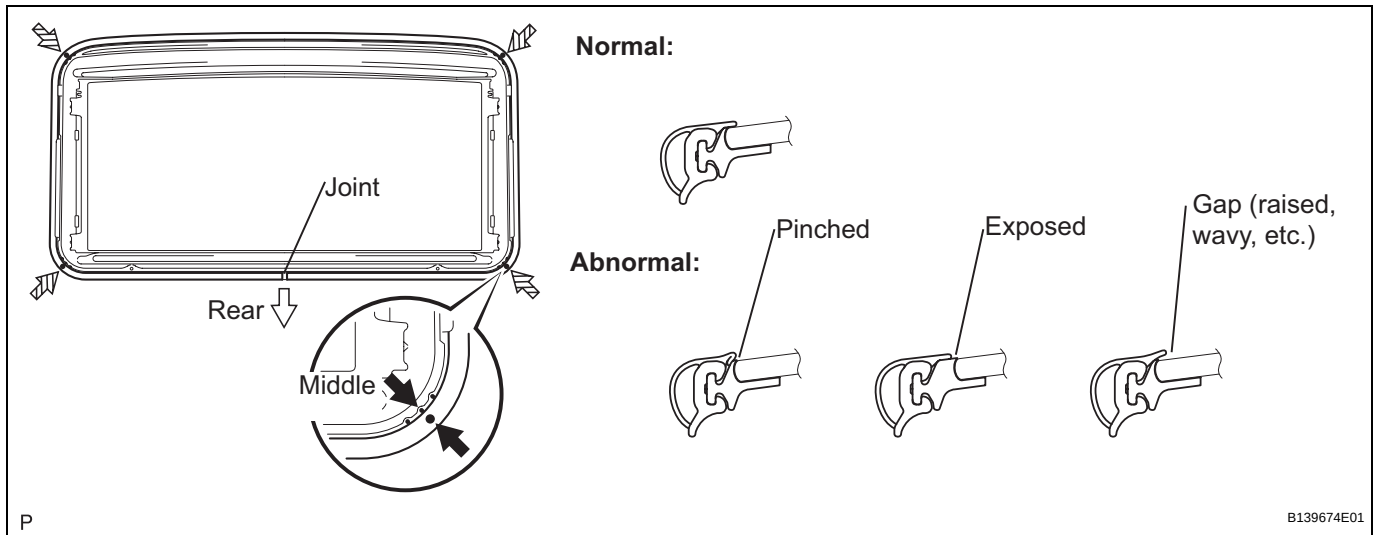


- (b) Engage the claw and install the sliding roof room light bracket.

INSTALLATION

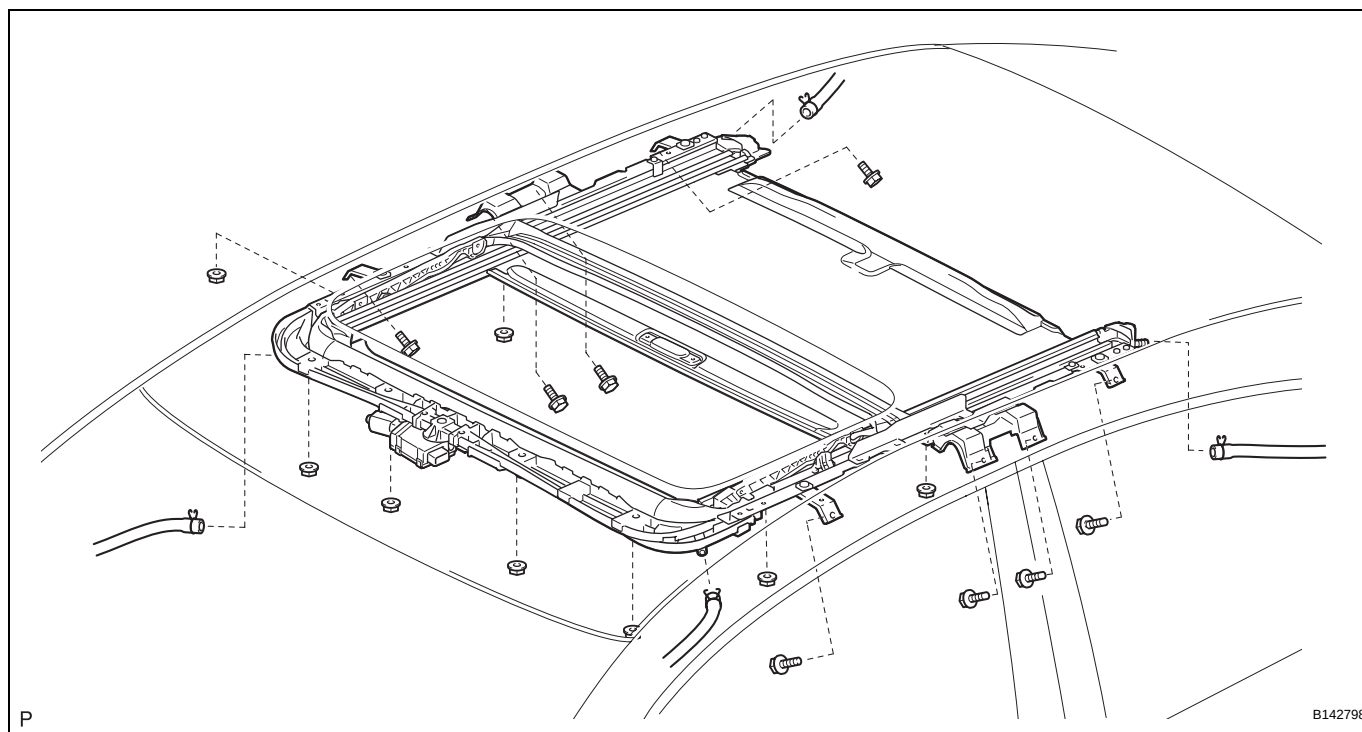
1. INSTALL SLIDING ROOF WEATHERSTRIP

- (a) Install the sliding roof weatherstrip as follows:
- (1) Position the joint of the weatherstrip at the rear center.
 - (2) Align the marks on the weatherstrip with the middle marks at the corners of the plastic on the edge of the sliding roof panel and install the weatherstrip. Make sure that the marks on the weatherstrip are positioned within the area indicated by the marks at the corners of the plastic on the edge of the sliding roof panel.
 - (3) Install the lip of the weatherstrip firmly.



2. INSTALL SLIDING ROOF HOUSING SUB-ASSEMBLY

- (a) Install the sliding roof housing sub-assembly with the 8 bolts and 8 nuts.

**Torque: Nut**

5.5 N*m (56 kgf*cm, 49 in.*lbf)

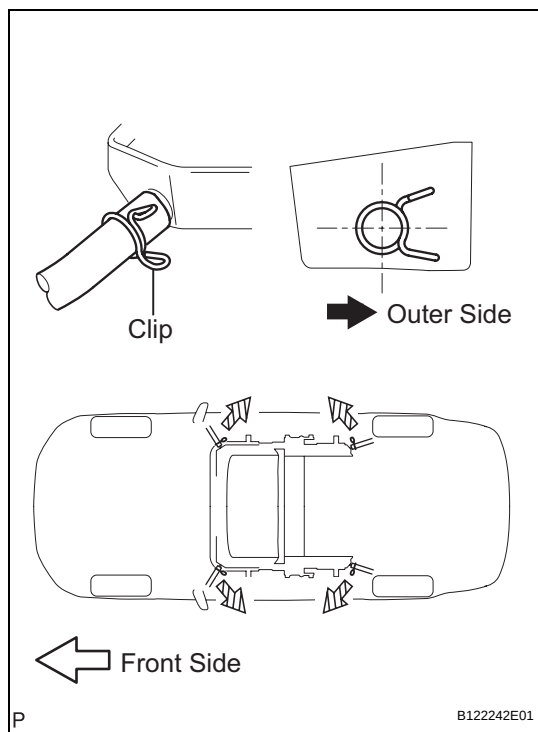
Bolt

8.0 N*m (82 kgf*cm, 71 in.*lbf)

- (b) Connect the 4 sliding roof drain hoses.

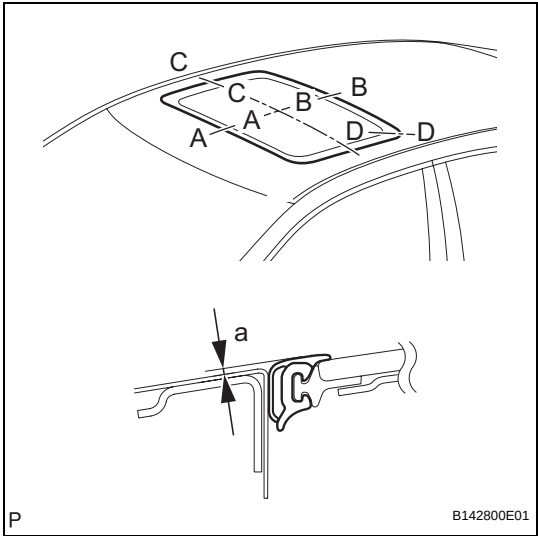
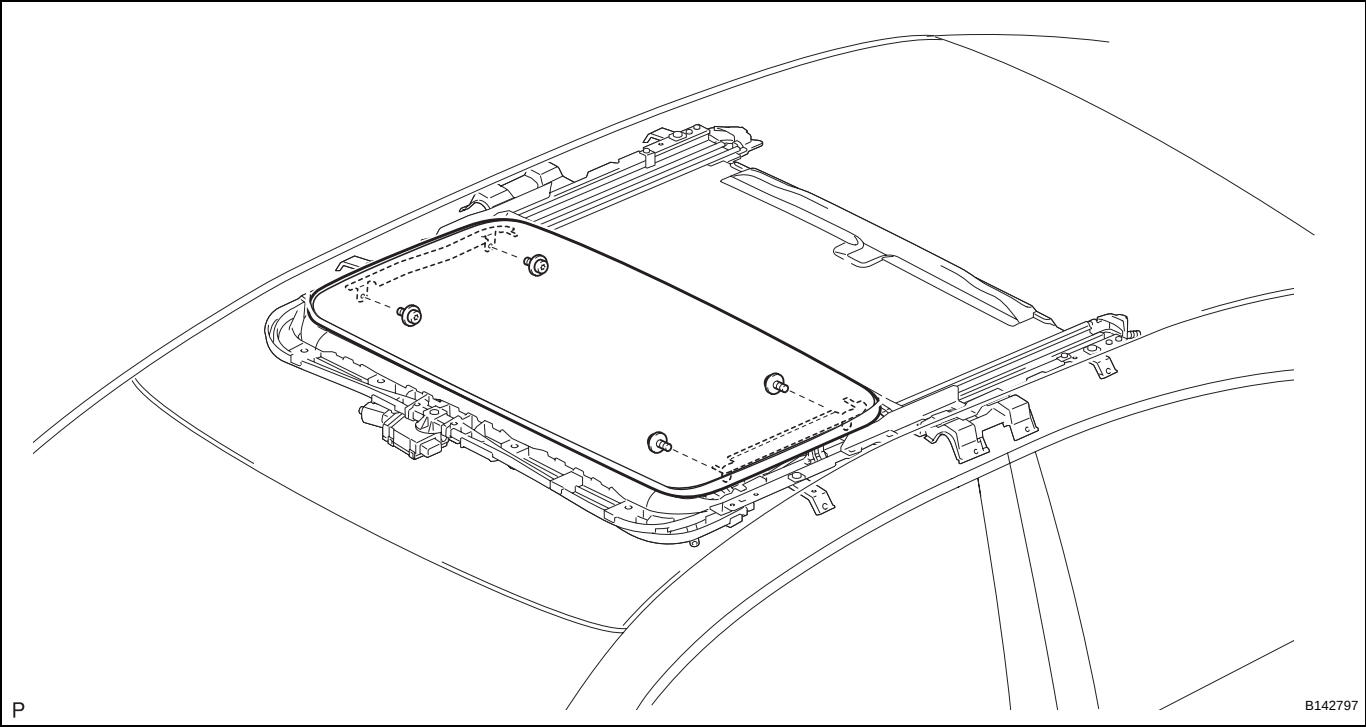
NOTICE:

The clip must face toward the outside of the vehicle and also be above the lower surface of the sliding roof housing when installing the drain hoses.



3. INSTALL SLIDING ROOF GLASS SUB-ASSEMBLY

- (a) Using a T25 "TORX" driver, temporarily install the sliding roof glass sub-assembly with the 4 screws.

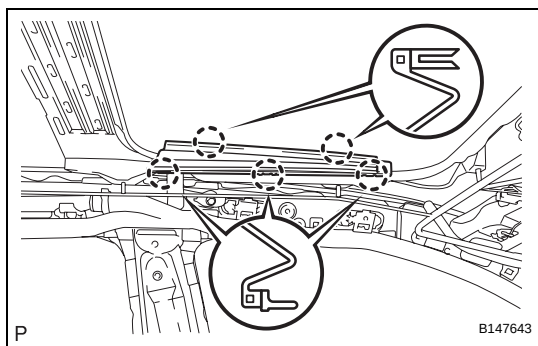
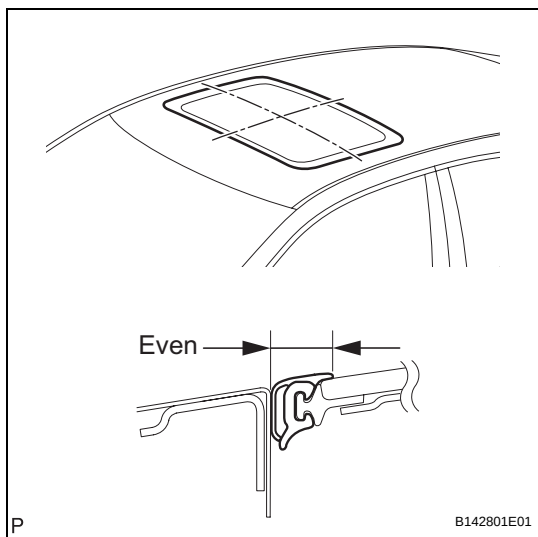


- (b) Perform a level check.
(1) Check the difference in level at "a", between the roof panel and the upper surface of the weatherstrip, when the sliding roof glass is fully closed.

Standard

Area	Measurement
A - A	0 + 1.0 mm (0 + 0.039 in.) 0 - 2.0 mm (0 - 0.079 in.)
B - B	0 + 2.0 mm (0 + 0.079 in.) 0 - 1.0 mm (0 - 0.039 in.)
C - C	0 + 1.5 mm (0 + 0.059 in.) 0 - 1.5 mm (0 - 0.059 in.)
D - D	0 + 1.5 mm (0 + 0.059 in.) 0 - 1.0 mm (0 - 0.039 in.)

HINT:
"+" represents the condition that the glass is above the panel level. "-" represents the condition that the glass is below the panel level.



(c) Perform a gap check.

- (1) Check the gap between the roof panel and roof glass.

NOTICE:

The gap must be even all around.

- (d) After adjusting the sliding roof glass, using a T25 "TORX" driver, install the sliding roof glass sub-assembly with the 4 screws.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

4. INSPECT FOR WATER LEAKS

- (a) After adjusting the sliding roof glass sub-assembly, inspect for water leaks.
- (b) If there are any leaks, readjust the sliding roof glass sub-assembly.

5. INSTALL SLIDING ROOF SIDE GARNISH LH

- (a) Engage the 5 claws and install the sliding roof side garnish LH.

6. INSTALL SLIDING ROOF SIDE GARNISH RH

HINT:

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

7. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH (See page [RS-441](#))

8. INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY RH

HINT:

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

9. INSTALL ROOF HEADLINING ASSEMBLY (See page [IR-56](#))

10. INSTALL ASSIST GRIP SUB-ASSEMBLY (See page [IR-58](#))

11. INSTALL SPOT LIGHT ASSEMBLY (See page [IR-59](#))

12. INSTALL COAT HOOK (See page [IR-60](#))

13. INSTALL VISOR HOLDER (See page [IR-60](#))

14. INSTALL VISOR ASSEMBLY LH (See page [IR-60](#))

15. INSTALL VISOR ASSEMBLY RH (See page [IR-60](#))

16. INSTALL VISOR BRACKET COVER (See page [IR-60](#))

17. INSTALL ROOF CONSOLE BOX ASSEMBLY (See page [IR-60](#))

18. INSTALL RAIN SENSOR COVER (w/ Rain Sensor) (See page [WW-65](#))

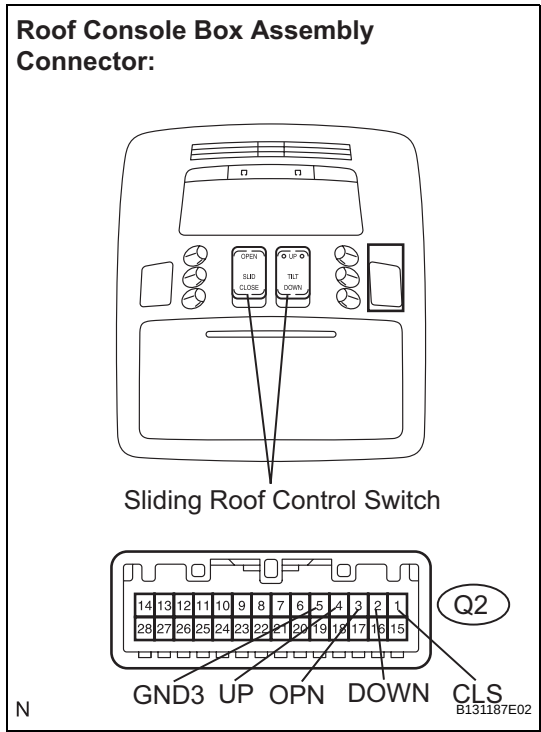
19. INSTALL INNER REAR VIEW MIRROR STAY HOLDER COVER (See page [MI-44](#))

20. CONNECT STEREO COMPONENT AMPLIFIER ASSEMBLY CONNECTOR (w/ DVD Player) (See page [IR-61](#))
21. INSTALL LUGGAGE COMPARTMENT INNER TRIM COVER RH (w/ DVD Player) (See page [ED-88](#))
22. INSTALL REAR FLOOR FINISH PLATE (w/ DVD Player) (See page [ED-88](#))
23. INSTALL NO. 1 LUGGAGE COMPARTMENT TRIM HOOK (w/ DVD Player) (See page [ED-89](#))
24. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (w/ DVD Player) (See page [ED-89](#))
25. INSTALL SPARE WHEEL COVER TRAY
26. INSTALL LUGGAGE COMPARTMENT FLOOR MAT
27. INSTALL FLOOR CARPET BRACKET LH
28. INSTALL FLOOR CARPET BRACKET RH
29. INSTALL SHIFT LEVER ASSEMBLY (See page [AX-240](#))
30. CONNECT TRANSMISSION CONTROL CABLE ASSEMBLY (See page [AX-241](#))
31. INSTALL NO. 2 CONSOLE BOX DUCT (See page [AC-163](#))
32. INSTALL NO. 3 CONSOLE BOX DUCT (See page [AC-163](#))
33. INSTALL REAR CONSOLE BOX ASSEMBLY (See page [IP-39](#))
34. INSTALL CONSOLE REAR END PANEL SUB-ASSEMBLY (See page [IP-40](#))
35. INSTALL CONSOLE BOX CARPET (See page [IP-41](#))
36. INSTALL CONSOLE BOX POCKET (See page [IP-41](#))
37. INSTALL HEATER SEAT SWITCH CONSOLE BASE (w/o Seat Heater System) (See page [IP-41](#))
38. INSTALL HEATER SEAT SWITCH CONSOLE BASE (w/ Seat Heater System) (See page [IP-41](#))
39. INSTALL UPPER CONSOLE PANEL ASSEMBLY WITH FRONT ASH RECEPTACLE (See page [IP-42](#))
40. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (See page [IP-42](#))
41. INSTALL INSTRUMENT PANEL FINISH PANEL END LH (See page [IP-46](#))
42. INSTALL INSTRUMENT PANEL FINISH PANEL END RH (See page [IP-44](#))
43. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY LH (See page [IR-62](#))

44. INSTALL REAR SEAT SIDE GARNISH LH (w/o Rear Seat Side Airbag) (See page [IR-62](#))
45. INSTALL REAR SEAT SIDE AIRBAG ASSEMBLY LH (w/ Rear Seat Side Airbag) (See page [RS-460](#))
46. INSTALL UPPER CENTER PILLAR GARNISH LH (See page [IR-63](#))
47. INSTALL LOWER CENTER PILLAR GARNISH LH (See page [IR-63](#))
48. INSTALL REAR DOOR SCUFF PLATE LH (See page [IR-63](#))
49. INSTALL FRONT PILLAR GARNISH LH (See page [IR-64](#))
50. INSTALL SIDE INSTRUMENT PANEL LH (See page [IP-47](#))
51. INSTALL FRONT DOOR OPENING TRIM COVER LH (See page [IR-64](#))
52. INSTALL FRONT DOOR SCUFF PLATE LH (See page [IR-65](#))
53. INSTALL ROOF SIDE INNER GARNISH ASSEMBLY RH (See page [IR-65](#))
54. INSTALL REAR SEAT SIDE GARNISH RH (w/o Rear Seat Side Airbag) (See page [IR-65](#))
55. INSTALL REAR SEAT SIDE AIRBAG ASSEMBLY RH (w/ Rear Seat Side Airbag) (See page [IR-65](#))
56. INSTALL UPPER CENTER PILLAR GARNISH RH (See page [IR-65](#))
57. INSTALL LOWER CENTER PILLAR GARNISH RH (See page [IR-65](#))
58. INSTALL REAR DOOR SCUFF PLATE RH (See page [IR-65](#))
59. INSTALL FRONT PILLAR GARNISH RH (See page [IR-65](#))
60. INSTALL SIDE INSTRUMENT PANEL RH (See page [IP-43](#))
61. INSTALL FRONT DOOR OPENING TRIM COVER RH (See page [IR-65](#))
62. INSTALL FRONT DOOR SCUFF PLATE RH (See page [IR-65](#))
63. INSTALL FRONT SEAT ASSEMBLY LH (See page [SE-109](#))
64. INSTALL FRONT SEAT REAR OUTER TRACK BRACKET COVER LH (See page [SE-110](#))
65. INSTALL FRONT SEAT REAR INNER TRACK BRACKET COVER LH (See page [SE-110](#))

66. INSTALL FRONT SEAT OUTER TRACK BRACKET COVER LH (See page [SE-110](#))
67. INSTALL FRONT SEAT INNER TRACK BRACKET COVER LH (See page [SE-110](#))
68. CONNECT FRONT SEAT OUTER BELT ASSEMBLY LH (See page [SB-25](#))
69. INSTALL SEAT BELT ANCHOR COVER CAP LH (See page [SB-25](#))
70. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Driver Seat)
71. INSTALL FRONT SEAT ASSEMBLY RH (See page [RS-497](#))
72. INSTALL FRONT SEAT REAR OUTER TRACK BRACKET COVER RH (See page [RS-498](#))
73. INSTALL FRONT SEAT REAR INNER TRACK BRACKET COVER RH (See page [RS-498](#))
74. INSTALL FRONT SEAT OUTER TRACK BRACKET COVER RH (See page [RS-498](#))
75. INSTALL FRONT SEAT INNER TRACK BRACKET COVER RH (See page [RS-498](#))
76. CONNECT FRONT SEAT OUTER BELT ASSEMBLY RH (See page [RS-499](#))
77. INSTALL SEAT BELT ANCHOR COVER CAP RH (See page [RS-499](#))
78. INSTALL FRONT SEAT HEADREST ASSEMBLY (for Front Passenger Seat)
79. INSTALL REAR SEATBACK ASSEMBLY (See page [SE-121](#))
80. INSTALL REAR CENTER SEAT HEADREST ASSEMBLY
81. INSTALL REAR SEAT HEADREST ASSEMBLY
82. INSTALL REAR SEAT CUSHION ASSEMBLY (See page [SE-121](#))
83. PERFORM INITIALIZATION
NOTICE:
Some systems need initialization after reconnecting the cable to the negative battery terminal (See page [IN-33](#)).
84. RESET SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY
(See page [RF-6](#))
85. INSPECT SLIDING ROOF SYSTEM
(See page [RF-12](#))
86. INSPECT SHIFT LEVER POSITION (See page [AX-200](#))
87. ADJUST SHIFT LEVER POSITION (See page [AX-200](#))

- 88. INSPECT FRONT SEAT ASSEMBLY (See page [SE-110](#))
- 89. INSPECT SRS WARNING LIGHT
(See page [RS-37](#))



SLIDING ROOF SWITCH ASSEMBLY

ON-VEHICLE INSPECTION

1. INSPECT ROOF CONSOLE BOX ASSEMBLY
- (a) Remove the roof console box assembly.
 - (b) Measure the resistance according to the value(s) in the table below.
- Standard resistance

Tester Connection	Switch Position	Specified Condition
Q2-1 (CLS) - Q2-5 (GND3)	CLOSE	Below 100 Ω
Q2-2 (DOWN) - Q2-5 (GND3)	DOWN	Below 100 Ω
Q2-3 (OPN) - Q2-5 (GND3)	OPEN	Below 100 Ω
Q2-4 (UP) - Q2-5 (GND3)	UP	Below 100 Ω
Q2-1 (CLS) - Q2-5 (GND3)	OPEN	1 kΩ or higher
Q2-2 (DOWN) - Q2-5 (GND3)	CLOSE	1 kΩ or higher
Q2-3 (OPN) - Q2-5 (GND3)	UP	1 kΩ or higher
Q2-4 (UP) - Q2-5 (GND3)	DOWN	1 kΩ or higher

If the result is not as specified, replace the roof console box assembly.