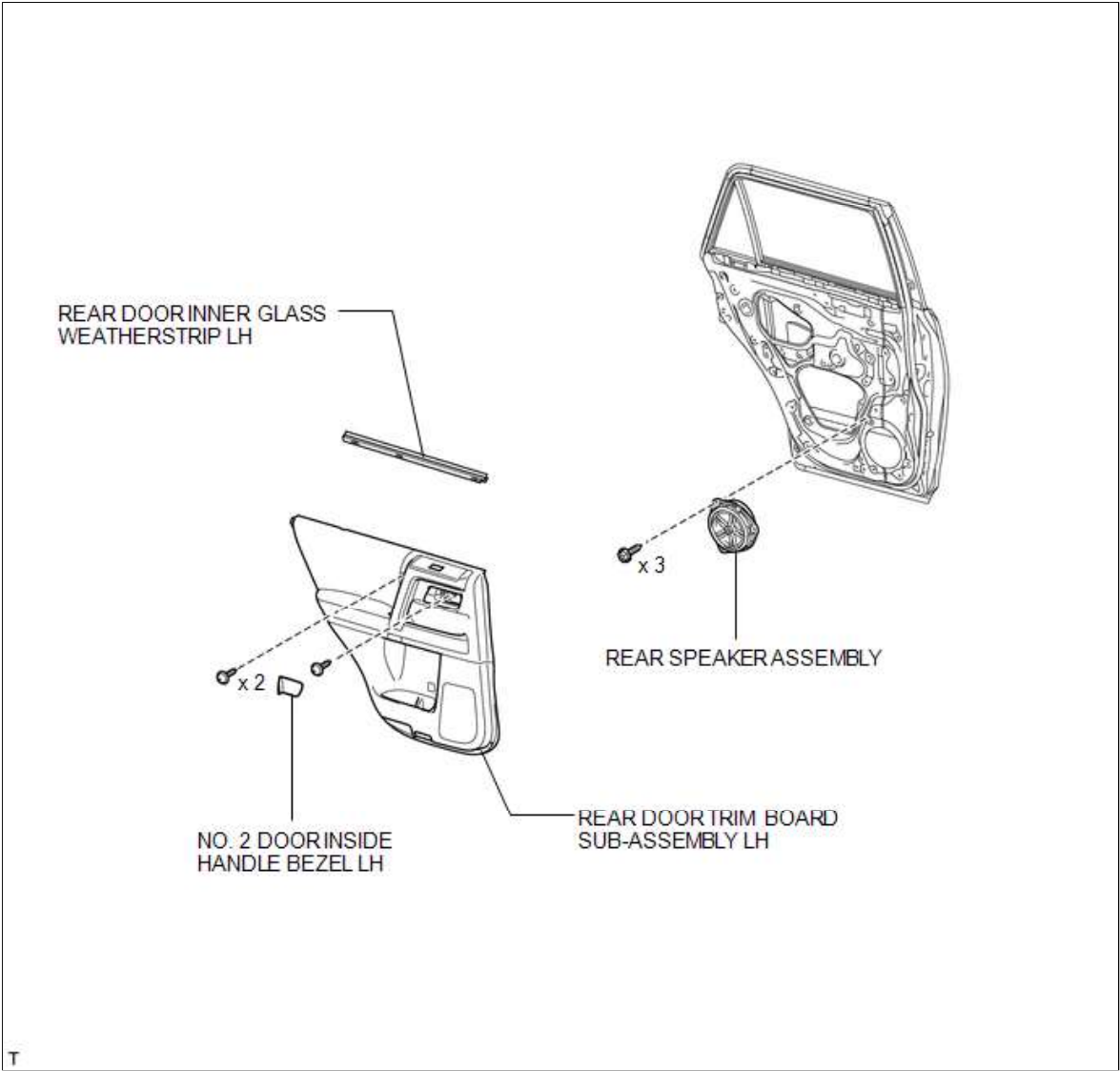


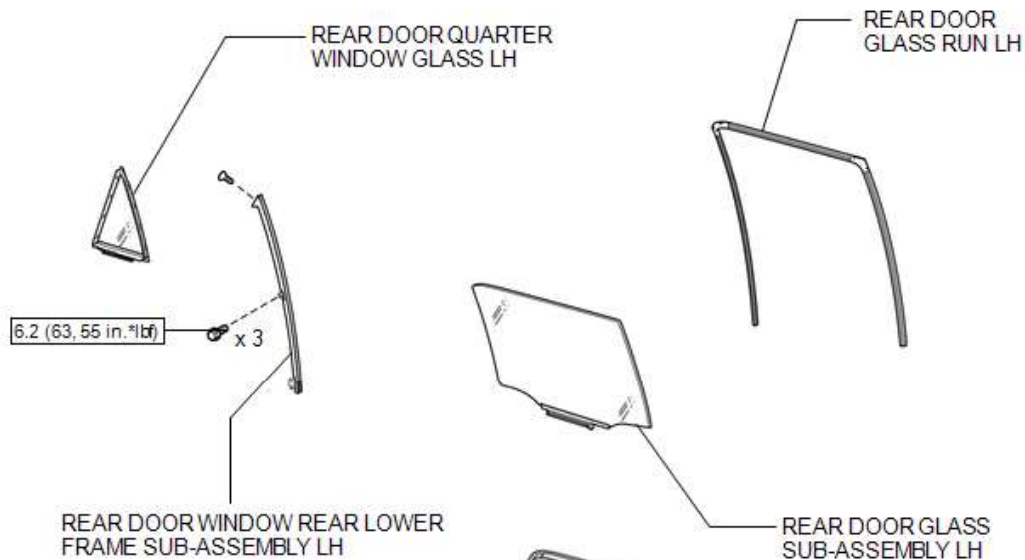
Last Modified: 03-17-2020	6.10:8.0.50	Doc ID: RM100000000RVDE
Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: WINDOW / GLASS: POWER WINDOW REGULATOR MOTOR (for Rear Door): COMPONENTS; 2016 - 2020 MY 4Runner [08/2015 -]		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



● BUTYL TAPE

● REAR DOOR SERVICE HOLE COVER LH

POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

5.4 (55, 48 in.*lbf)

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

● Non-reusable part

← MP grease

8.0 (82, 71 in.*lbf)

REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY LH

T



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Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: WINDOW / GLASS: POWER WINDOW REGULATOR MOTOR (for Rear Door): REMOVAL; 2016 - 2020 MY 4Runner [08/2015 -]		

REMOVAL

PROCEDURE

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See page [INFO](#)).

2. REMOVE NO. 2 DOOR INSIDE HANDLE BEZEL LH

[INFO](#)

3. REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY LH

[INFO](#)

4. REMOVE REAR DOOR INNER GLASS WEATHERSTRIP LH

[INFO](#)

5. REMOVE REAR SPEAKER ASSEMBLY

[INFO](#)

6. REMOVE REAR DOOR SERVICE HOLE COVER LH

[INFO](#)

7. REMOVE REAR DOOR GLASS RUN LH

[INFO](#)

8. REMOVE REAR DOOR WINDOW REAR LOWER FRAME SUB-ASSEMBLY LH

[INFO](#)

9. REMOVE REAR DOOR QUARTER WINDOW GLASS LH

[INFO](#)

10. REMOVE REAR DOOR GLASS SUB-ASSEMBLY LH

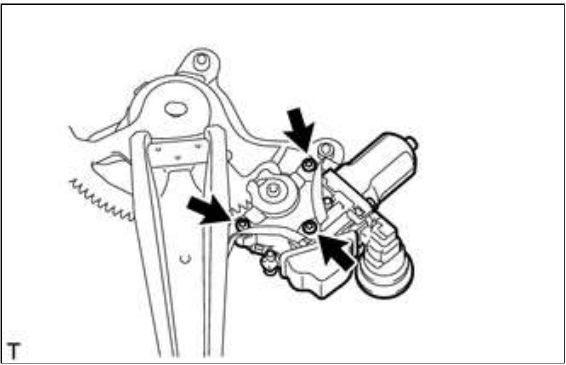
[INFO](#)

11. REMOVE REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY LH

[INFO](#)

12. REMOVE POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

- (a) Using a T25 "TORX" socket wrench, remove the 3 screws and power window regulator motor.



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Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: WINDOW / GLASS: POWER WINDOW REGULATOR MOTOR (for Rear Door): INSPECTION; 2016 - 2020 MY 4Runner [08/2015 -]		

INSPECTION

PROCEDURE

1. INSPECT REAR POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

(a) Check that the motor gear rotates smoothly as follows.

NOTICE:

Do not apply positive (+) battery voltage to any terminals except terminal 2 (B) to avoid damaging the pulse sensor inside the motor.

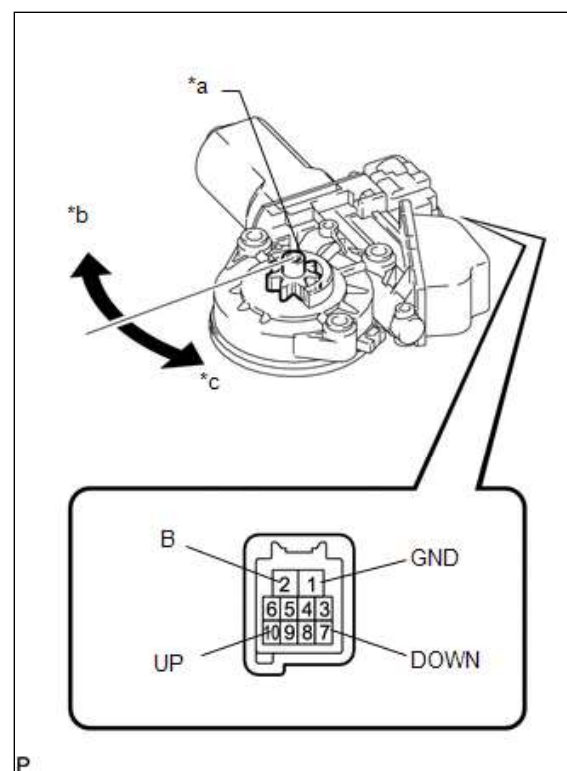
OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
1. Connect the positive (+) battery terminal to terminal 2 (B), and connect the negative (-) battery cable to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected to the battery, connect the negative (-) battery terminal to terminal 10 (UP). 3. Disconnect and reconnect the negative (-) battery terminal to terminal 10 (UP) within 1 second.	Motor gear rotates clockwise (Up)
1. Connect the positive (+) battery terminal to terminal 2 (B), and connect the negative (-) battery terminal to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected to the battery, connect the negative (-) battery terminal to terminal 7 (DOWN). 3. Disconnect and reconnect the negative (-) battery terminal to terminal 7 (DOWN) within 1 second.	Motor gear rotates counterclockwise (Down)

If the result is not as specified, replace the rear power window regulator motor assembly.

CAUTION:

Reset the power window regulator motor (initialize the pulse sensor) after installing the power window regulator motor and regulator assembly to the door.



Text in Illustration

*a	Motor Gear
*b	Clockwise
*c	Counterclockwise

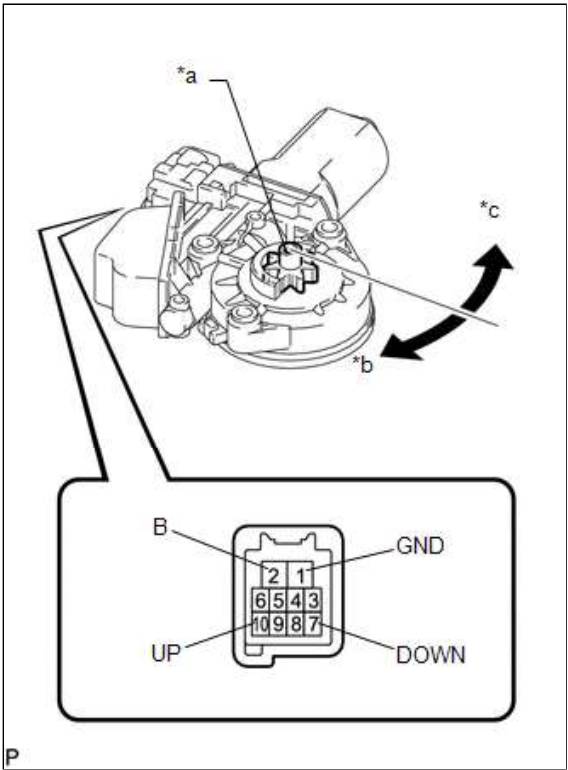
2. INSPECT REAR POWER WINDOW REGULATOR MOTOR ASSEMBLY RH

(a) Check that the motor gear rotates smoothly as follows.

NOTICE:

Do not apply positive (+) battery voltage to any terminals except terminal 2 (B) to avoid damaging the pulse sensor inside the motor.

OK:



P

MEASUREMENT CONDITION	SPECIFIED CONDITION
1. Connect the positive (+) battery terminal to terminal 2 (B), and connect the negative (-) battery terminal to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected to the battery, connect the negative (-) battery terminal to terminal 10 (UP). 3. Disconnect and reconnect the negative (-) battery terminal to terminal 10 (UP) within 1 second.	Motor gear rotates counterclockwise (Up)
1. Connect the positive (+) battery terminal to terminal 2 (B), and connect the negative (-) battery terminal to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected to the battery, connect the negative (-) battery terminal to terminal 7 (DOWN). 3. Disconnect and reconnect the negative (-) battery terminal to terminal 7 (DOWN) within 1 second.	Motor gear rotates clockwise (Down)

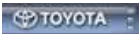
If the result is not as specified, replace the rear regulator motor assembly.

CAUTION:

Reset the power window regulator motor (initialize the pulse sensor) after installing the power window regulator motor and regulator assembly to the door.

Text in Illustration

*a	Motor Gear
*b	Clockwise
*c	Counterclockwise



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Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: WINDOW / GLASS: POWER WINDOW REGULATOR MOTOR (for Rear Door): INSTALLATION; 2016 - 2020 MY 4Runner [08/2015 -]		

INSTALLATION

PROCEDURE

1. INSTALL POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

NOTICE:

The regulator arm must be below the intermediate position when installing the rear power window regulator motor assembly.

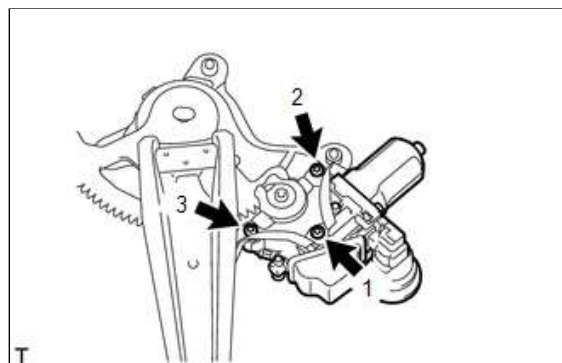
- (a) Using a T25 "TORX" socket wrench, install the power window regulator motor with the 3 screws.

HINT:

- Tighten the screws in the order shown in the illustration.
- A new power window regulator uses self-tapping screws to thread new installation holes when the self-tapping screws are installed.

Torque:

5.4 N·m {55 kgf·cm, 48 in·lbf}



2. INSTALL REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY LH

INFO

3. INSTALL REAR DOOR GLASS SUB-ASSEMBLY LH

INFO

4. INSTALL REAR DOOR QUARTER WINDOW GLASS LH

INFO

5. INSTALL REAR DOOR WINDOW REAR LOWER FRAME SUB-ASSEMBLY LH

INFO

6. INSTALL REAR DOOR GLASS RUN LH

INFO

7. INSTALL REAR DOOR SERVICE HOLE COVER LH

INFO

8. INSTALL REAR SPEAKER ASSEMBLY

INFO

9. INSTALL REAR DOOR INNER GLASS WEATHERSTRIP LH

INFO

10. INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY LH

INFO

11. INSTALL NO. 2 DOOR INSIDE HANDLE BEZEL LH

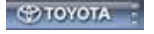
12. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See page [WFO](#)).

13. INITIALIZE POWER WINDOW CONTROL SYSTEM

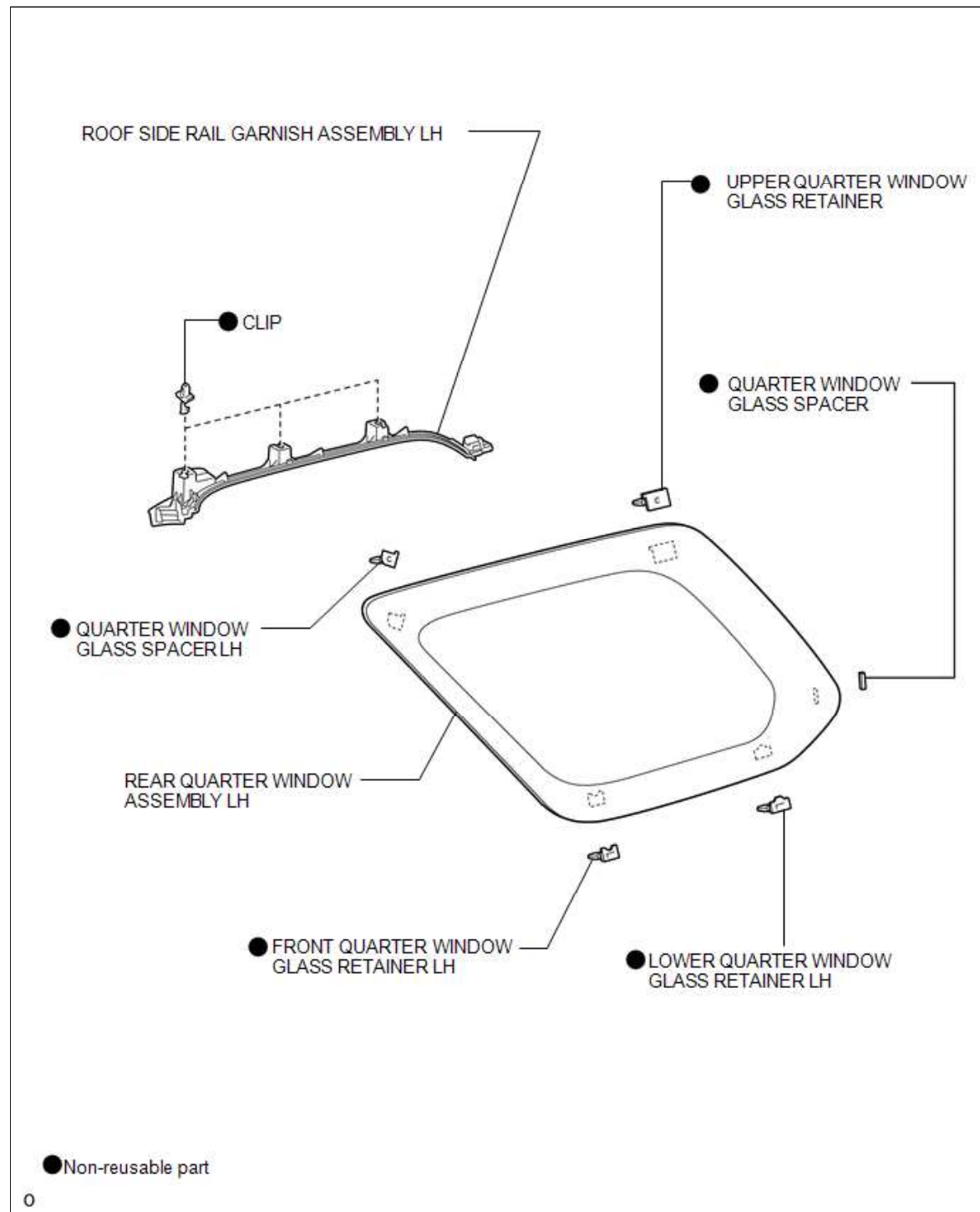
(a) Initialize the power window control system (See page [WFO](#)).



Last Modified: 03-17-2020	6.10:8.0.50	Doc ID: RM100000000RVDM
Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: WINDOW / GLASS: QUARTER WINDOW GLASS: COMPONENTS; 2016 - 2020 MY 4Runner [08/2015 -]		

COMPONENTS

ILLUSTRATION



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Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: WINDOW / GLASS: QUARTER WINDOW GLASS: REMOVAL; 2016 - 2020 MY 4Runner [08/2015 -]		

REMOVAL

CAUTION / NOTICE / HINT

- HINT:**
- Use the same procedure for both the RH and LH sides.
 - The procedure listed below is for the LH side.

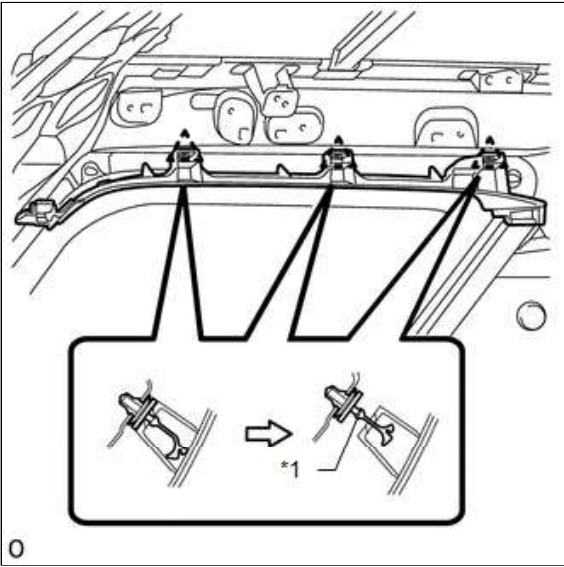
PROCEDURE

1. REMOVE ROOF HEADLINING ASSEMBLY

(See page [INFO](#))

2. REMOVE ROOF SIDE RAIL GARNISH ASSEMBLY LH

(a) Detach the 3 clips.



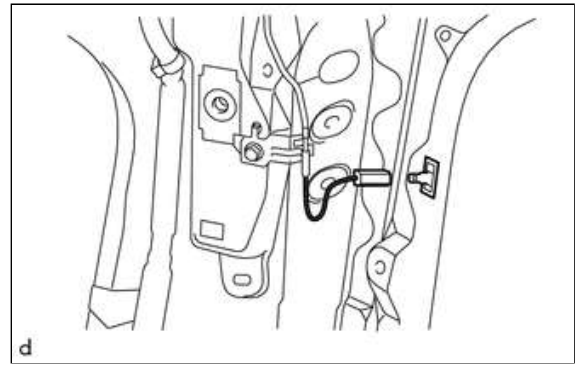
- (b) Cut off the 3 clips to remove the roof side rail garnish assembly LH.
- (c) Remove 3 clips from the vehicle body.

Text in Illustration

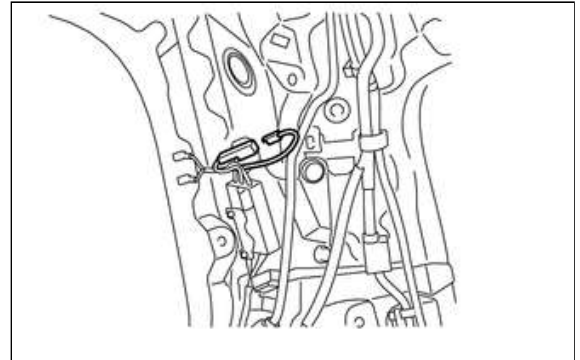
*1	Clip
----	------

3. DISCONNECT WINDOW GLASS ANTENNA WIRE

- (a) Disconnect the window glass antenna wire connector (for LH side).



(b) Disconnect the window glass antenna wire connector (for RH side).



4. REMOVE REAR QUARTER WINDOW ASSEMBLY LH

(a) From the interior, insert a piano wire between the vehicle body and rear quarter window assembly LH as shown in the illustration.

Text in Illustration

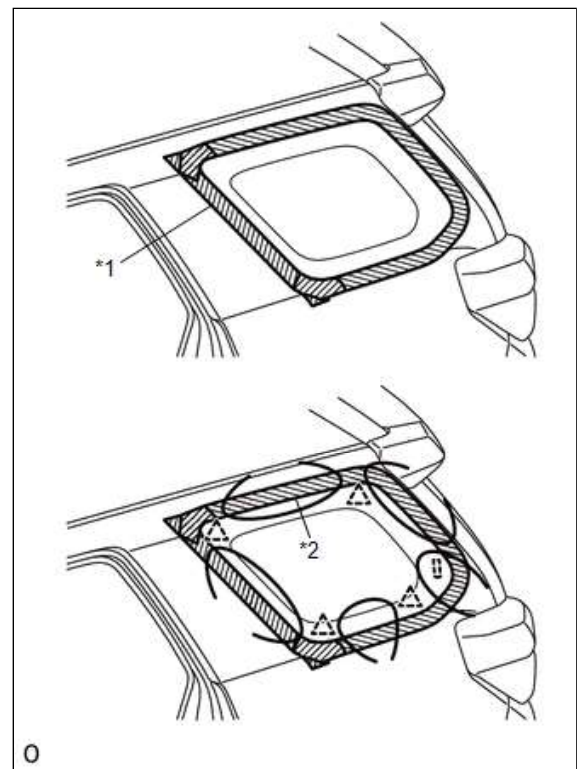
*1	Protective Tape
*2	Piano Wire

NOTICE:

When separating the rear quarter window assembly LH from the vehicle body, be careful not to damage the vehicle paint or interior/exterior ornaments.

HINT:

Apply protective tape to the outer surface of the vehicle body to prevent scratches.



(b) Tie objects that can serve as handles (for example, wooden blocks) to both wire ends.