

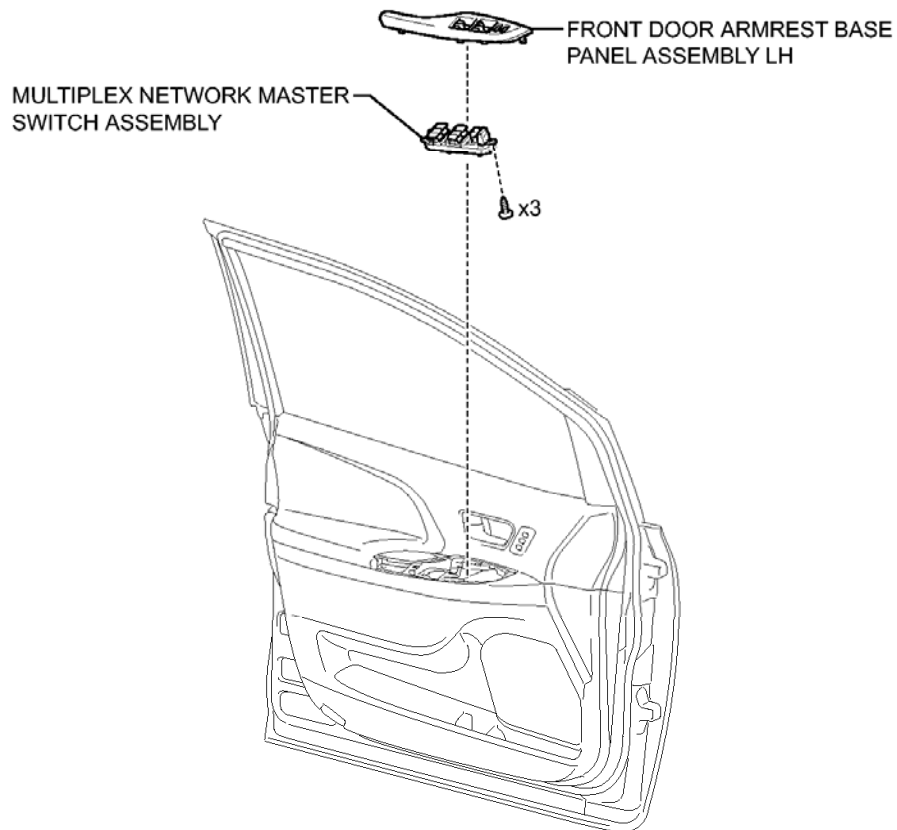
ACCESSORIES & EQUIPMENT

Windows / Glass (Service Information) - Sienna

POWER WINDOW MASTER SWITCH

COMPONENTS

ILLUSTRATION



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Fig. 1: Power Window Master Switch Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

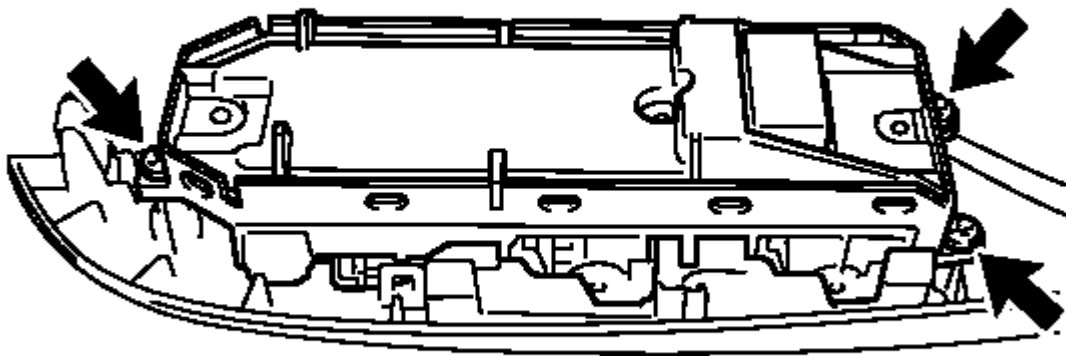
1. REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY LH

HINT:

Use the same procedure as for the RH side. Refer to **DISASSEMBLY - Step 2** .

2. REMOVE MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY

- a. Remove the 3 screws and the multiplex network master switch.



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Fig. 2: Identifying Multiplex Network Master Switch Assembly Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

INSPECTION

1. INSPECT MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY

- a. Check that the LED illuminates.

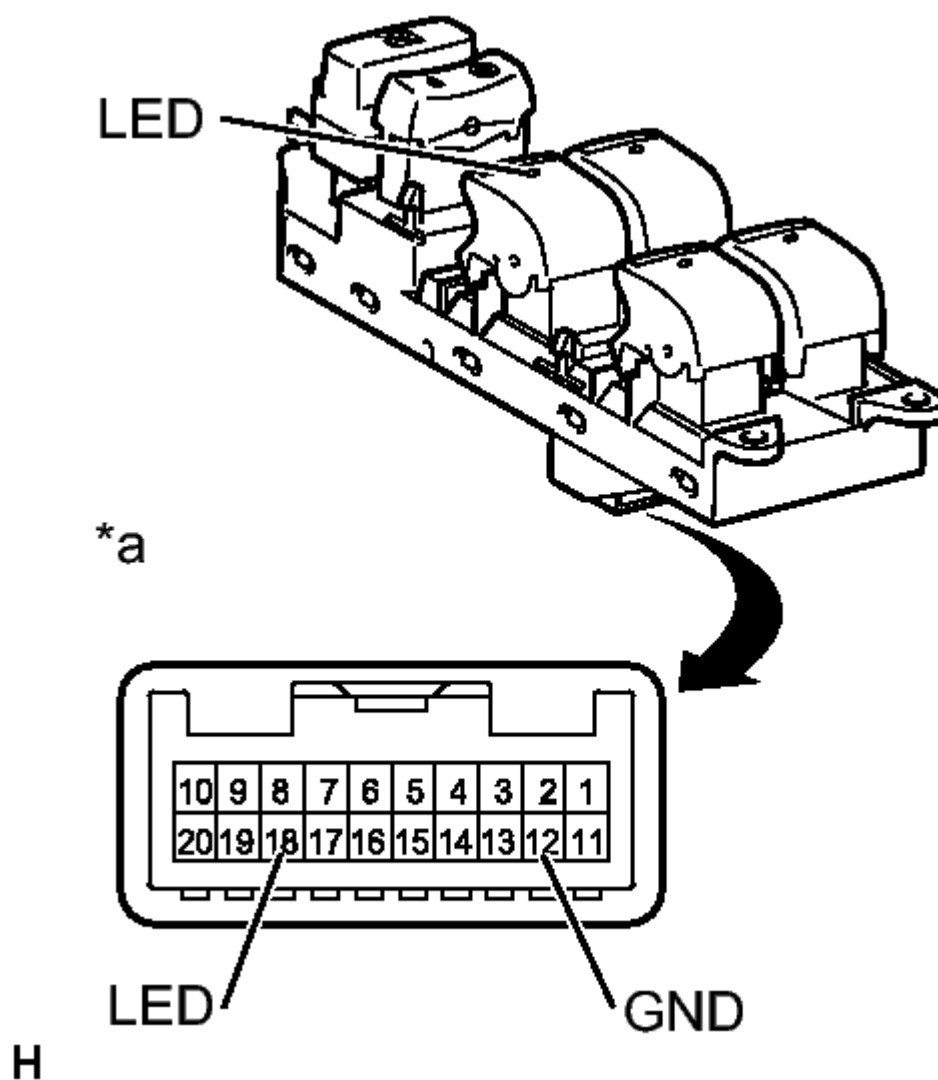


Fig. 3: Identifying Multiplex Network Master Switch Assembly Connector Terminals
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Apply battery voltage to the multiplex network master switch and check that the LED illuminates.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 18 (LED)	LED illuminates
Battery negative (-) -- > 12 (GND)	

TEXT IN ILLUSTRATION

*a	Component without harness connected (to Multiplex Network Master Switch Assembly)
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If the result is not as specified, replace the multiplex network master switch.

INSTALLATION

INSTALLATION

1. **INSTALL MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY**
 - a. Install the multiplex network master switch with the 3 screws.
2. **INSTALL FRONT DOOR ARMREST BASE PANEL ASSEMBLY LH**

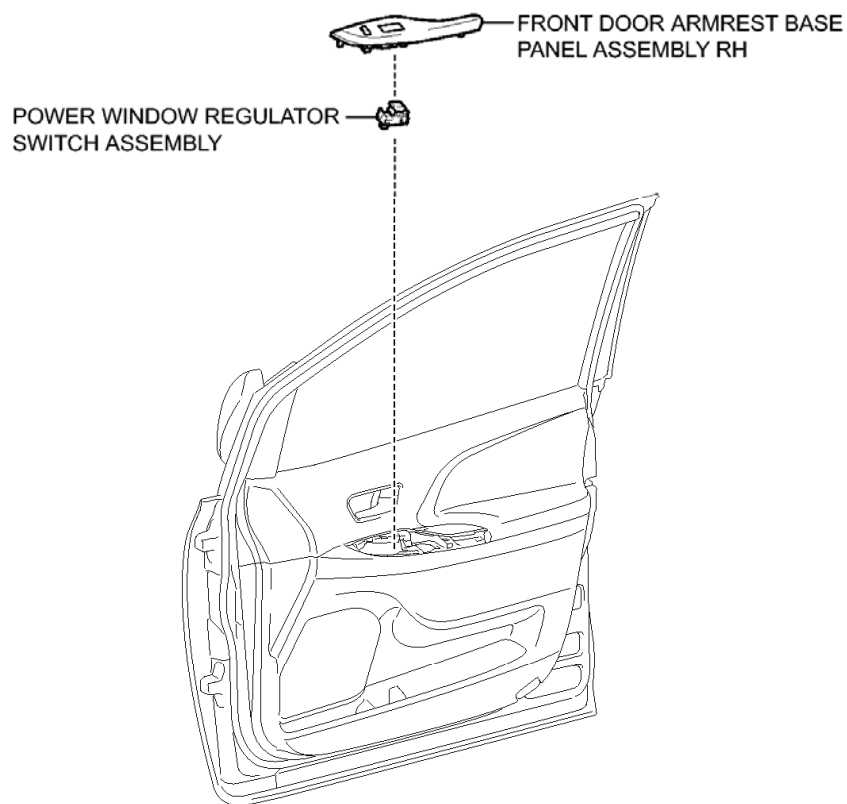
HINT:

Use the same procedure as for the RH side. Refer to **REASSEMBLY - Step 33** .

FRONT PASSENGER SIDE POWER WINDOW SWITCH

COMPONENTS

ILLUSTRATION



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Fig. 4: Front Passenger Side Power Window Switch Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. **REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY RH . Refer to DISASSEMBLY - Step 2**

2. REMOVE POWER WINDOW REGULATOR SWITCH ASSEMBLY

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

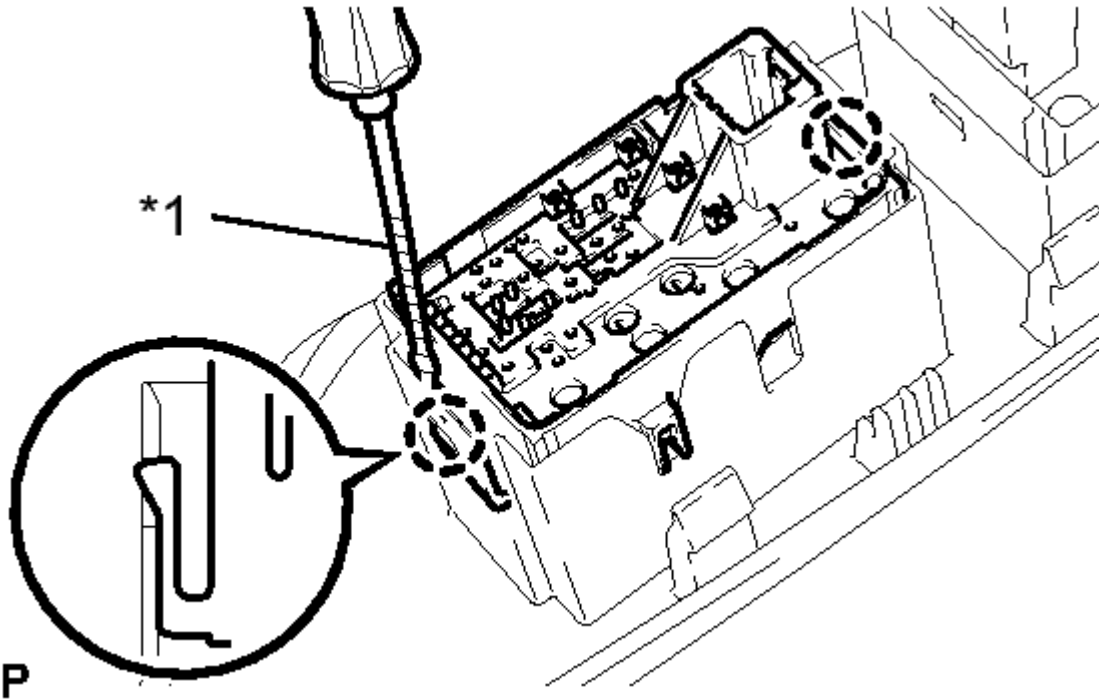


Fig. 5: Removing Power Window Regulator Switch Assembly Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Protective Tape
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INSPECTION

INSPECTION

1. INSPECT POWER WINDOW REGULATOR SWITCH ASSEMBLY

- a. Check the switch function.

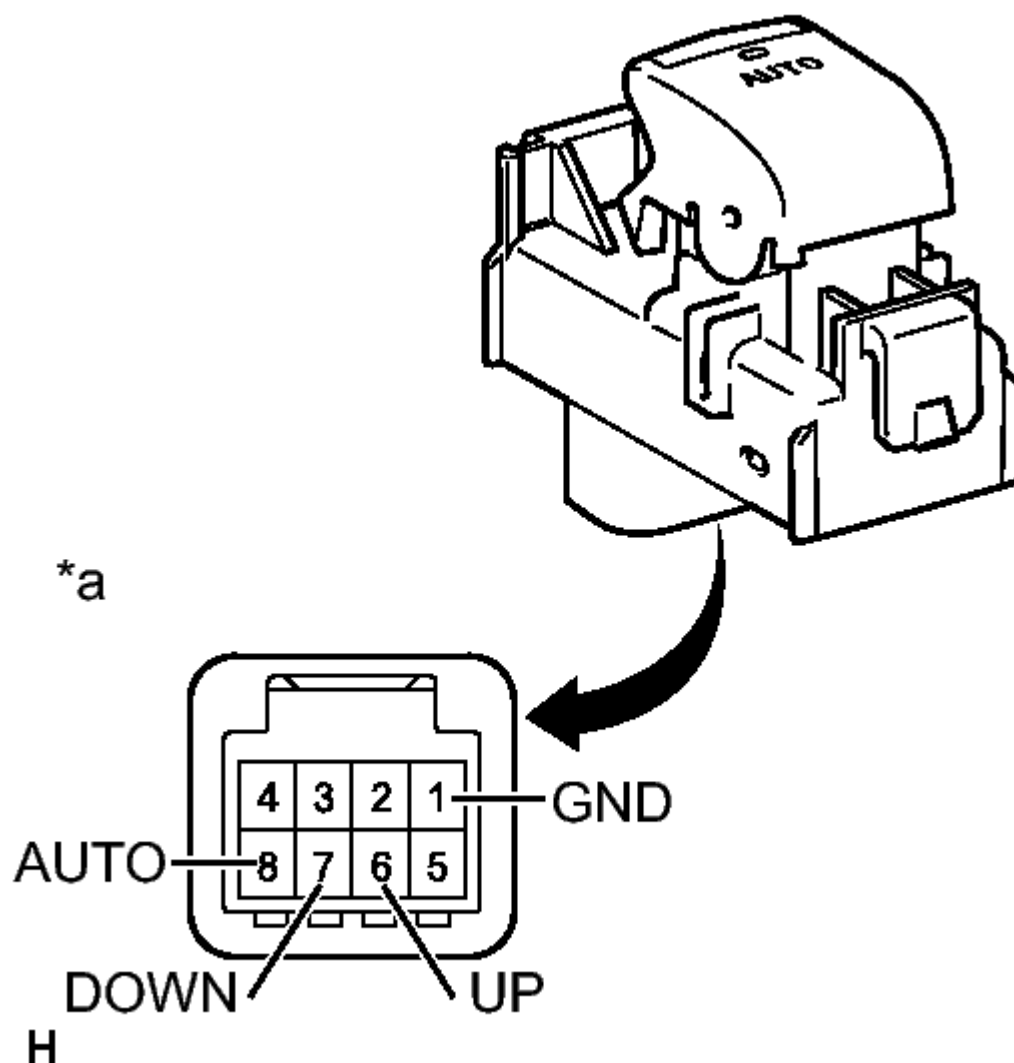


Fig. 6: Identifying Power Window Regulator Switch Assembly Connector Terminals
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
6 (UP) - 1 (GND)	Auto up or up position	Below 1 ohms
7 (DOWN) - 1 (GND)	Auto down or down position	Below 1 ohms

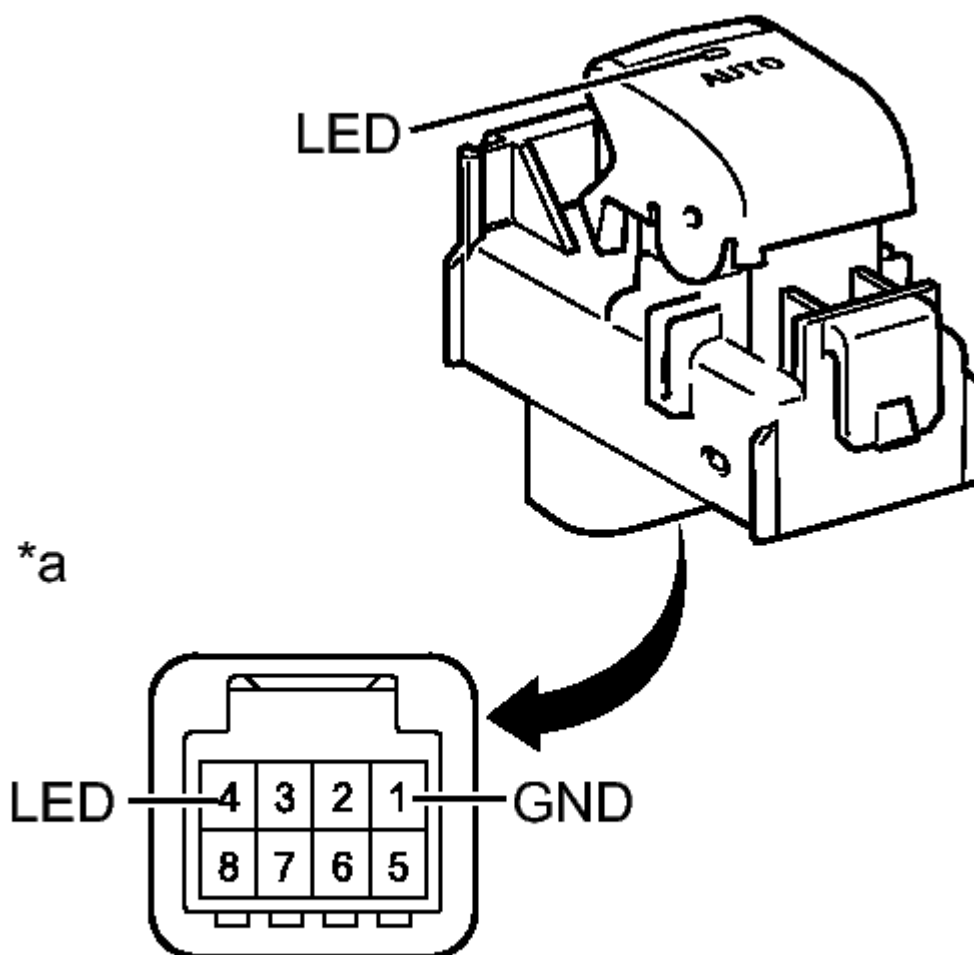
8 (AUTO) - 1 (GND)	Auto up or auto down position	Below 1 ohms
6 (UP) - 1 (GND)	Free	10 kohms or higher
7 (DOWN) - 1 (GND)	Free	10 kohms or higher
8 (AUTO) - 1 (GND)	Free	10 kohms or higher

TEXT IN ILLUSTRATION

*a	Component without harness connected (to Power Window Regulator Switch Assembly (for Front Passenger Side))
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If the result is not as specified, replace the power window regulator switch assembly (for front passenger side).

- b. Check that the LED illuminates.



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Fig. 7: Identifying Power Window Regulator Switch Assembly LED Operation
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Apply battery voltage to the power window regulator switch assembly and check that the LED illuminates.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 4 (LED)	LED illuminates
Battery negative (-) -- > 1 (GND)	

TEXT IN ILLUSTRATION

	Component without harness connected (to Power Window Regulator Switch Assembly (for Front Passenger Side))
*a	

If the result is not as specified, replace the power window regulator switch assembly (for front passenger side).

INSTALLATION

INSTALLATION

1. INSTALL POWER WINDOW REGULATOR SWITCH ASSEMBLY

- a. Engage the 2 claws to install the power window regulator switch.

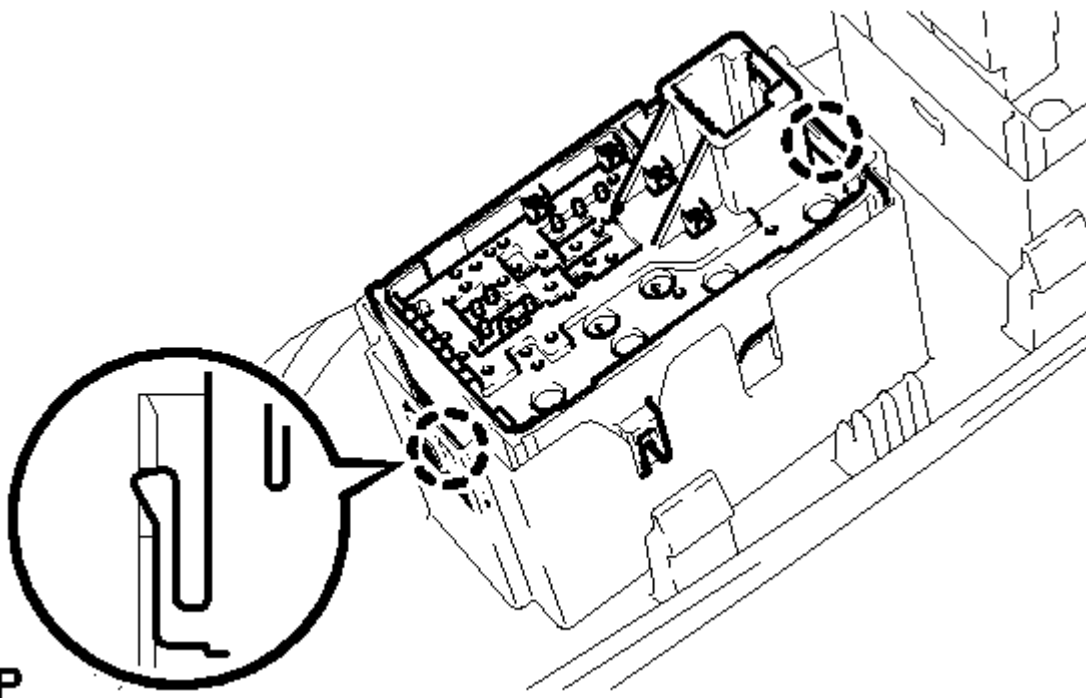


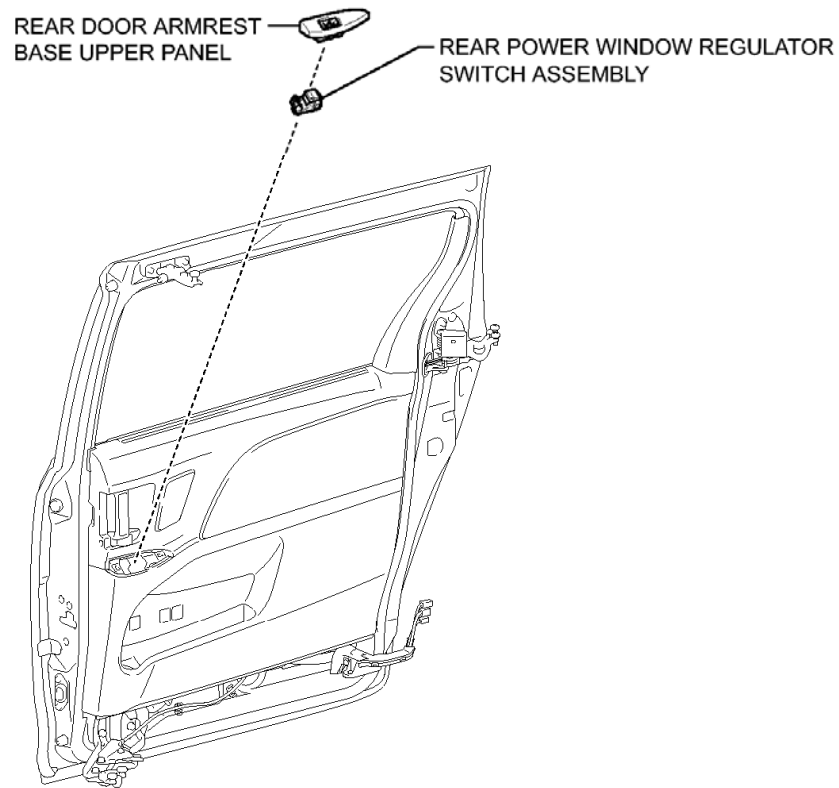
Fig. 8: Identifying Power Window Regulator Switch Assembly Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT DOOR ARMREST BASE PANEL ASSEMBLY RH . Refer to REASSEMBLY - Step 33

REAR POWER WINDOW SWITCH

COMPONENTS

ILLUSTRATION



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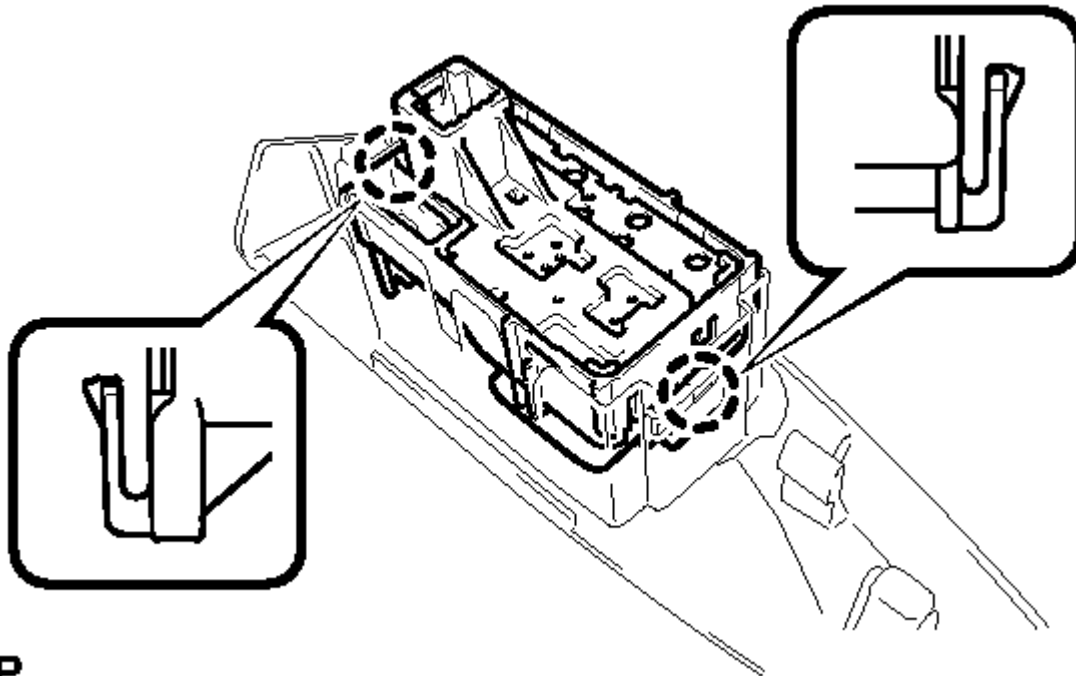
Fig. 9: Rear Power Window Switch Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

- Use the same procedure for the RH side and LH side.
 - The procedure listed below is for the RH side.
1. **REMOVE REAR DOOR ARMREST BASE UPPER PANEL** . Refer to **DISASSEMBLY - Step 2**
 2. **REMOVE REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY**
 - a. Disengage the 2 claws and remove the rear power window regulator switch.



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Fig. 10: Identifying Rear Power Window Regulator Switch Assembly Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

INSPECTION

1. **INSPECT REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY (for Rear LH)**
 - a. Check the switch function.

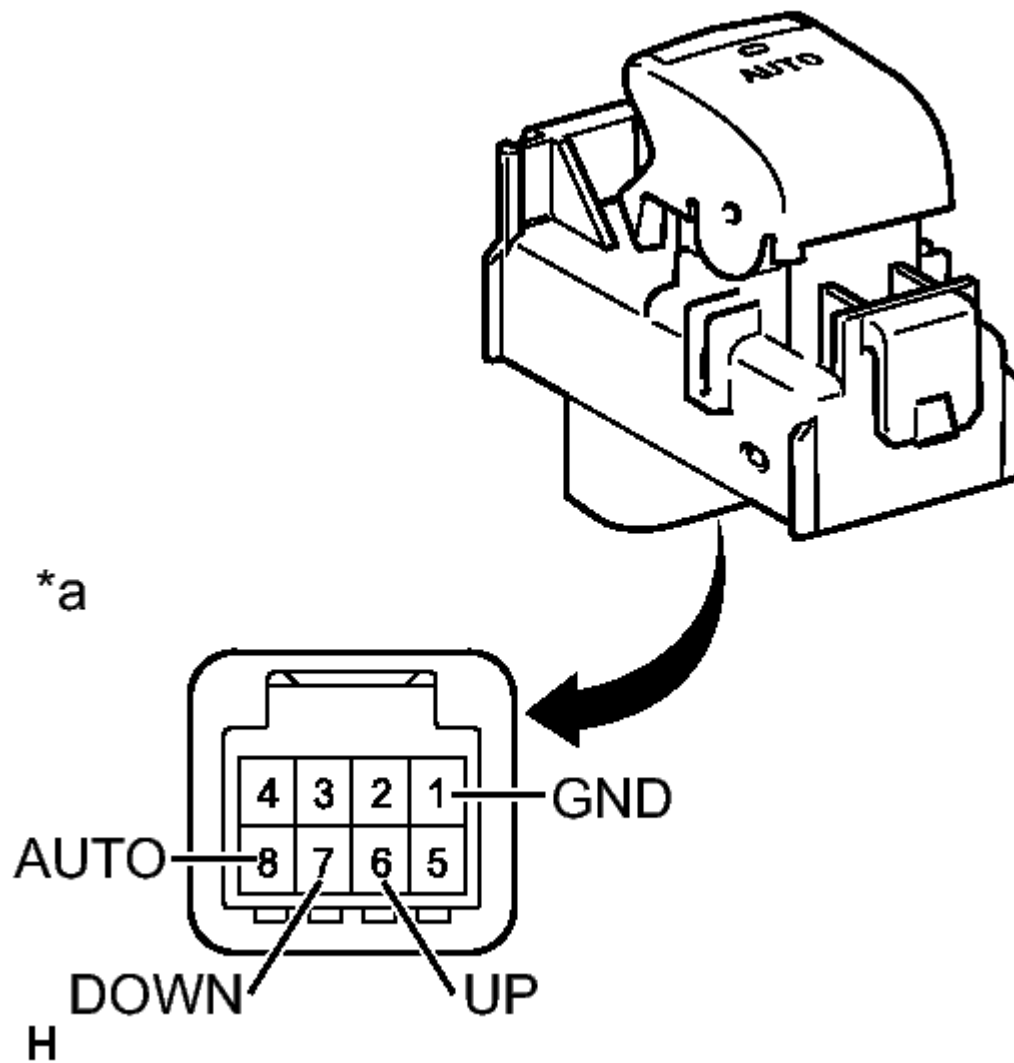


Fig. 11: Identifying Rear Power Window Regulator Switch Assembly Connector Terminals
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Switch Condition	Specified Condition
6 (UP) - 1 (GND)	Auto up or up position	Below 1 ohms
7 (DOWN) - 1 (GND)	Auto down or down position	Below 1 ohms

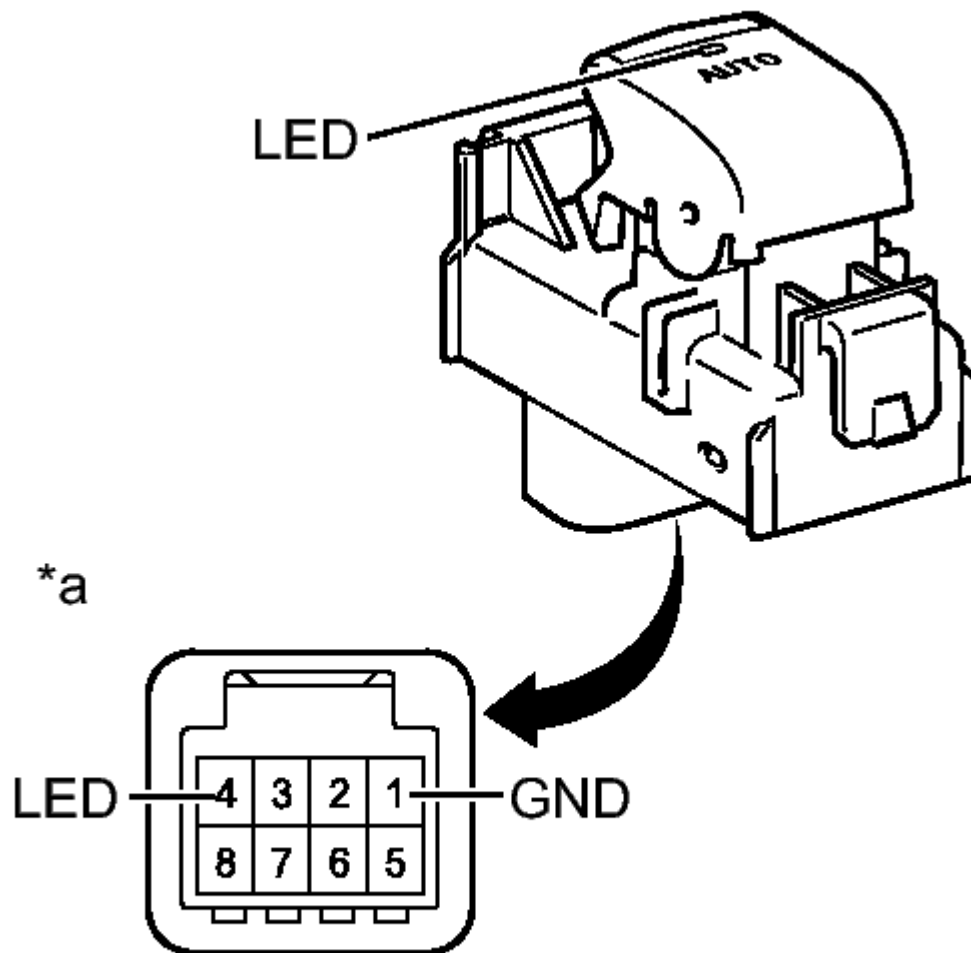
8 (AUTO) - 1 (GND)	Auto up or auto down position	Below 1 ohms
6 (UP) - 1 (GND)	Free	10 kohms or higher
7 (DOWN) - 1 (GND)	Free	10 kohms or higher
8 (AUTO) - 1 (GND)	Free	10 kohms or higher

TEXT IN ILLUSTRATION

*a	Component without harness connected (to Rear Power Window Regulator Switch)
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If the result is not as specified, replace the rear power window regulator switch.

- b. Check that the LED illuminates.



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Fig. 12: Identifying Rear Power Window Regulator Switch Assembly LED Operation
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Apply battery voltage to the power window regulator switch assembly and check that the LED illuminates.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 4 (LED)	LED illuminates
Battery negative (-) -- > 1 (GND)	

TEXT IN ILLUSTRATION

	Component without harness connected
*a	(to Rear Power Window Regulator Switch)

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

2. INSPECT REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY (for Rear RH)

- Check the switch function.

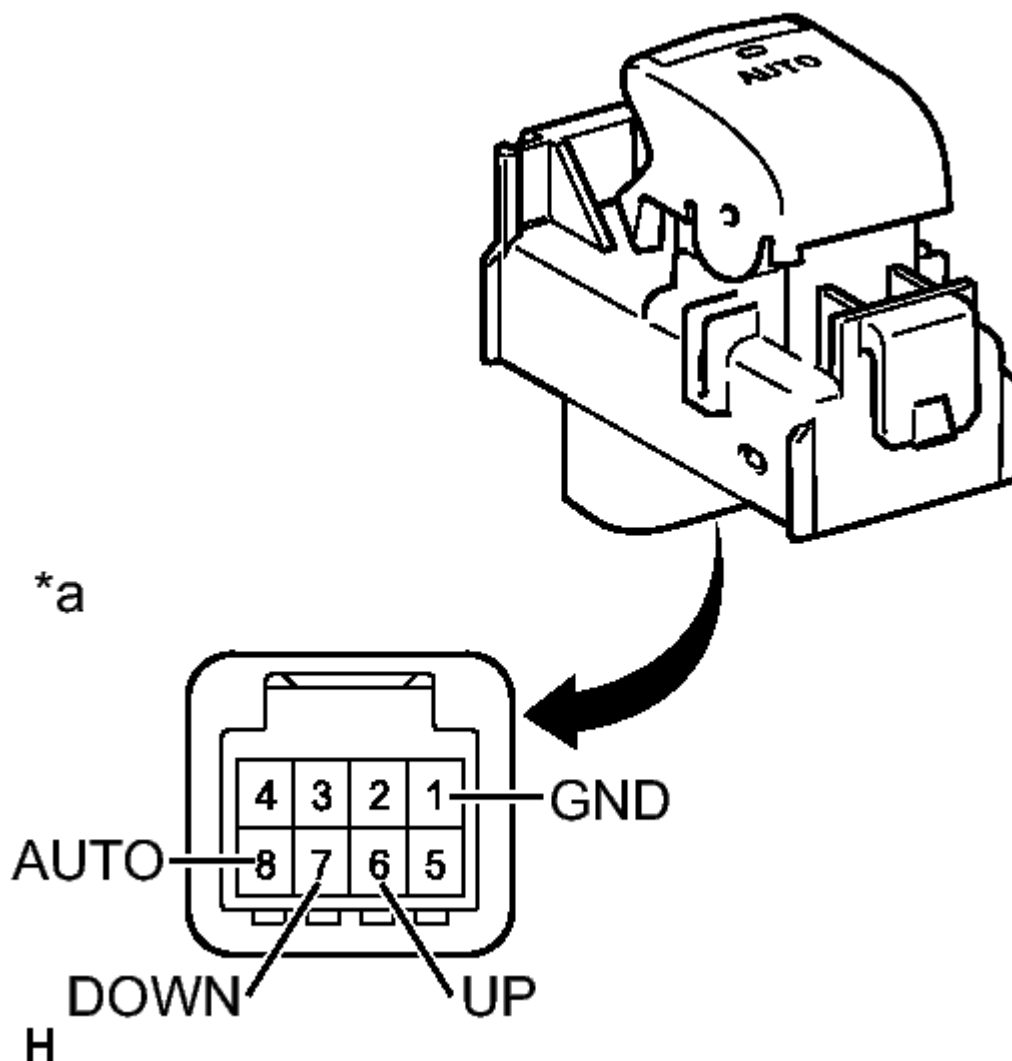


Fig. 13: Identifying Rear Power Window Regulator Switch Assembly Connector Terminals
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Measure the resistance according to the value(s) in the table below.

Standard Resistance

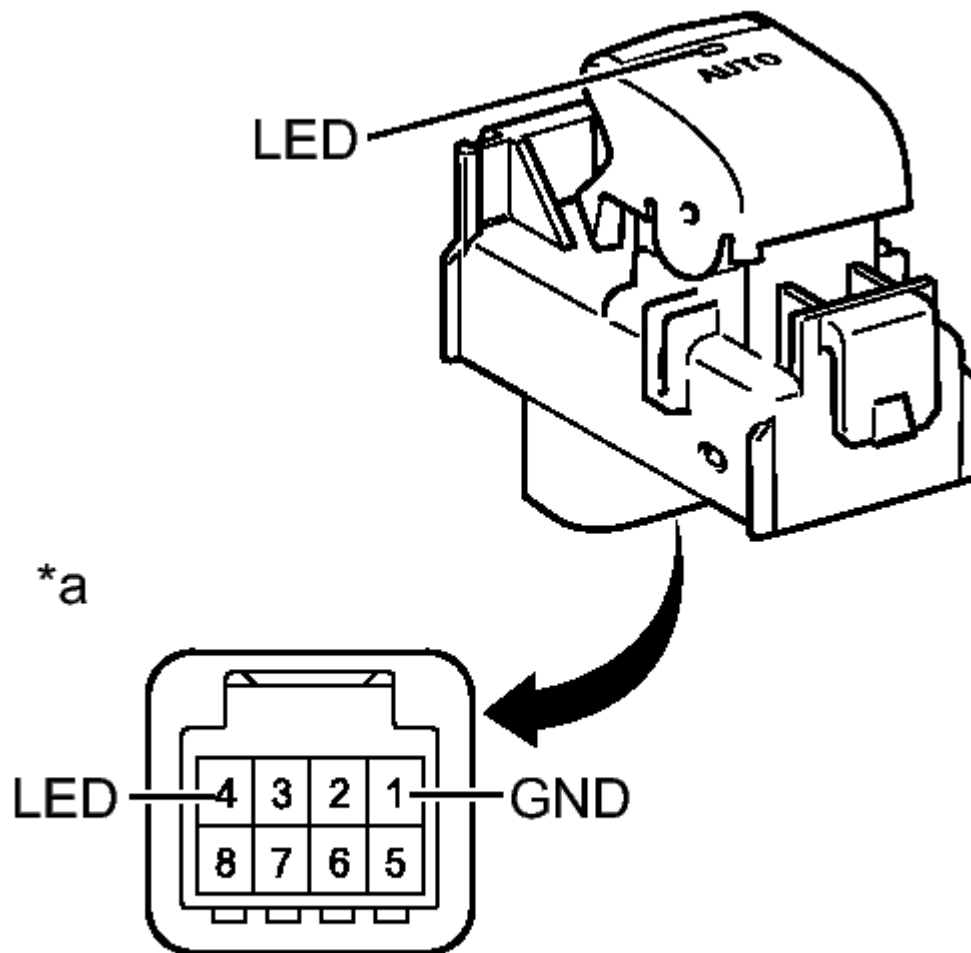
Tester Connection	Switch Condition	Specified Condition
6 (UP) - 1 (GND)	Auto up or up position	Below 1 ohms
7 (DOWN) - 1 (GND)	Auto down or down position	Below 1 ohms
8 (AUTO) - 1 (GND)	Auto up or auto down position	Below 1 ohms
6 (UP) - 1 (GND)	Free	10 kohms or higher
7 (DOWN) - 1 (GND)	Free	10 kohms or higher
8 (AUTO) - 1 (GND)	Free	10 kohms or higher

TEXT IN ILLUSTRATION

*a	Component without harness connected (to Rear Power Window Regulator Switch)
----	---

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

- b. Check that the LED illuminates.



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Fig. 14: Identifying Rear Power Window Regulator Switch Assembly LED Operation
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Apply battery voltage to the rear power window regulator switch and check that the LED illuminates.

OK

Measurement Condition	Specified Condition
Battery positive (+) -- > 4 (LED)	LED illuminates
Battery negative (-) -- > 1 (GND)	

TEXT IN ILLUSTRATION

	Component without harness connected
*a	(to Rear Power Window Regulator Switch)

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

INSTALLATION

INSTALLATION

1. INSTALL REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY

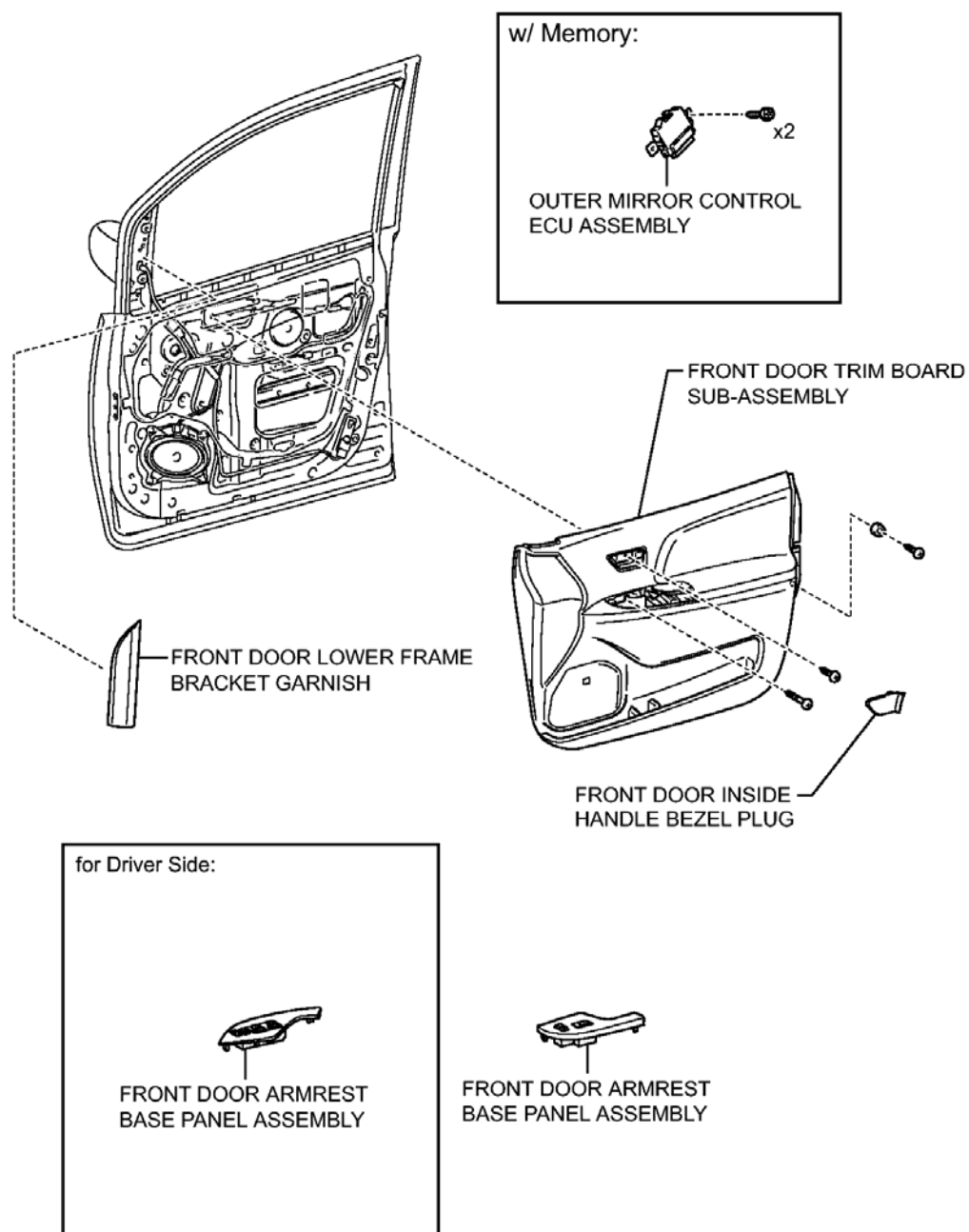
a. Engage the 2 claws and install the rear power window regulator switch.

2. INSTALL REAR DOOR ARMREST BASE UPPER PANEL . Refer to REASSEMBLY - Step 46

POWER WINDOW REGULATOR MOTOR (FOR FRONT DOOR)

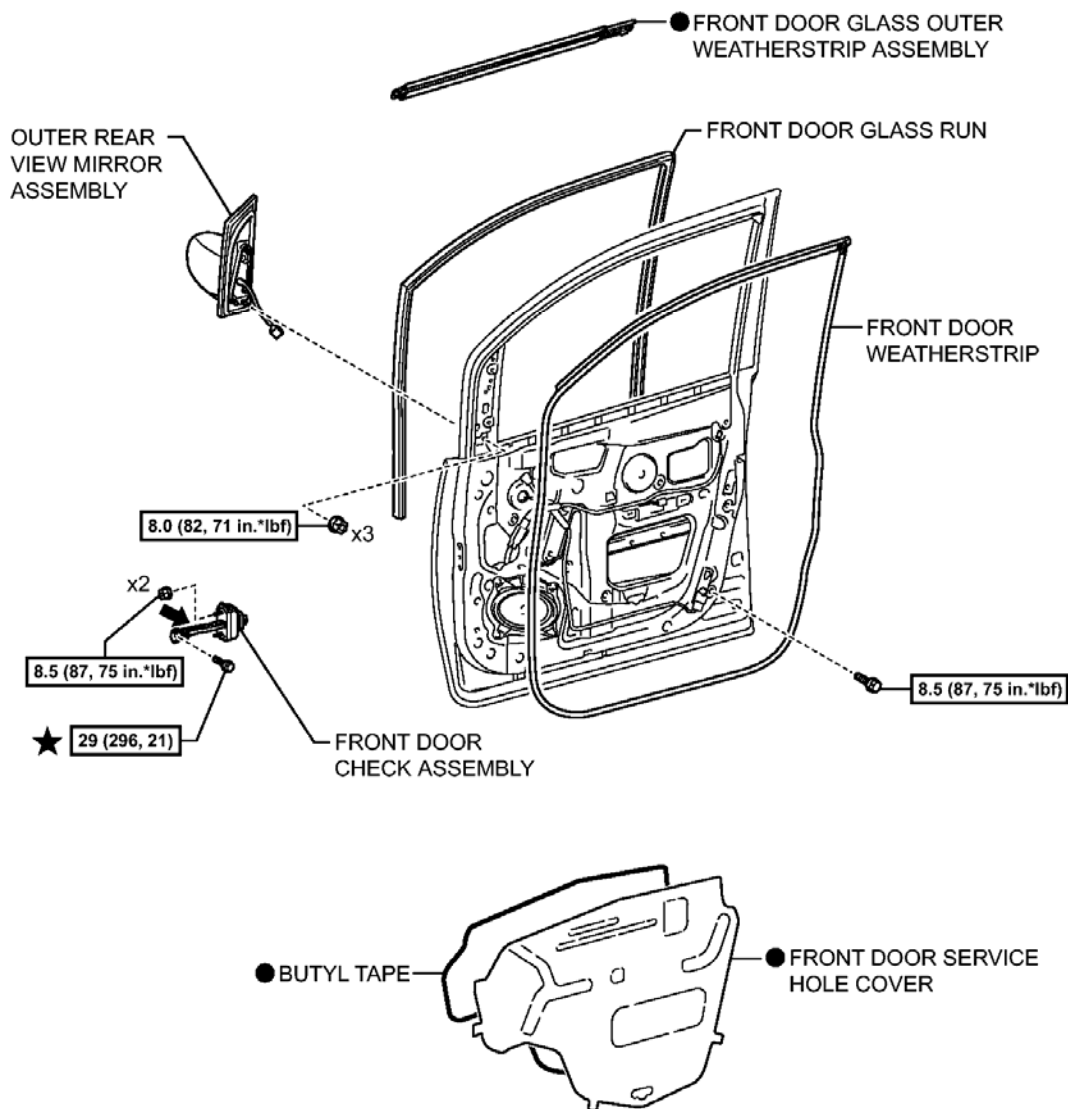
COMPONENTS

ILLUSTRATION



Y
Fig. 15: Power Window Regulator Motor Replacement Components (1 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



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

● Non-reusable part

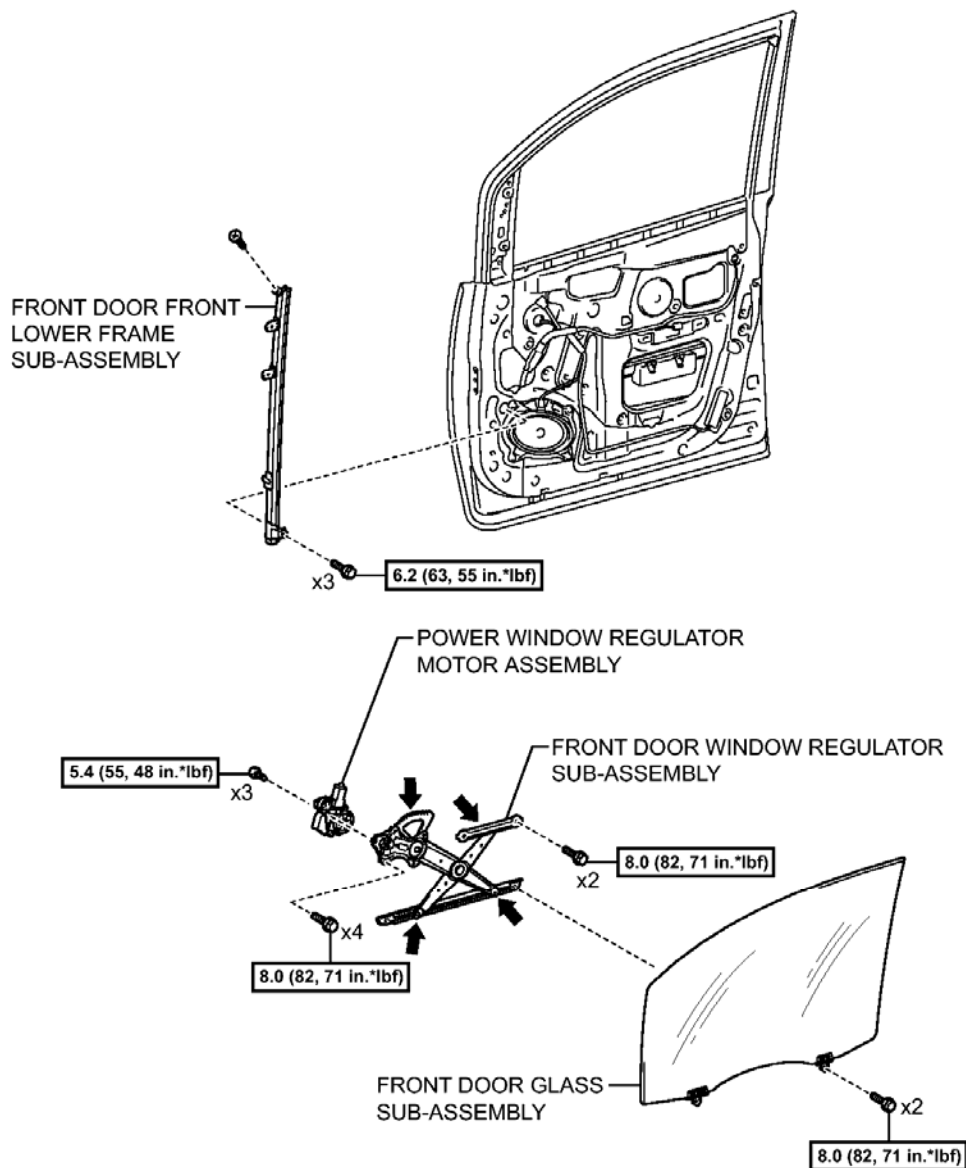
← MP grease

★ Precoated part

Y

Fig. 16: Power Window Regulator Motor Replacement Components With Torque Specifications (2 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



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

← MP grease

Fig. 17: Power Window Regulator Motor Replacement Components With Torque Specifications (3 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

- Use the same procedure for the RH side and LH side.
- The procedure listed below is for the RH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

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

2. REMOVE FRONT DOOR ARMREST BASE PANEL ASSEMBLY . Refer to DISASSEMBLY - Step 2
3. REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG . Refer to DISASSEMBLY - Step 3
4. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH . Refer to DISASSEMBLY - Step 4
5. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY . Refer to DISASSEMBLY - Step 5
6. REMOVE OUTER MIRROR CONTROL ECU ASSEMBLY (w/ Memory) . Refer to REMOVAL - Step 5
7. REMOVE FRONT DOOR SERVICE HOLE COVER . Refer to DISASSEMBLY - Step 12
8. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY

HINT:

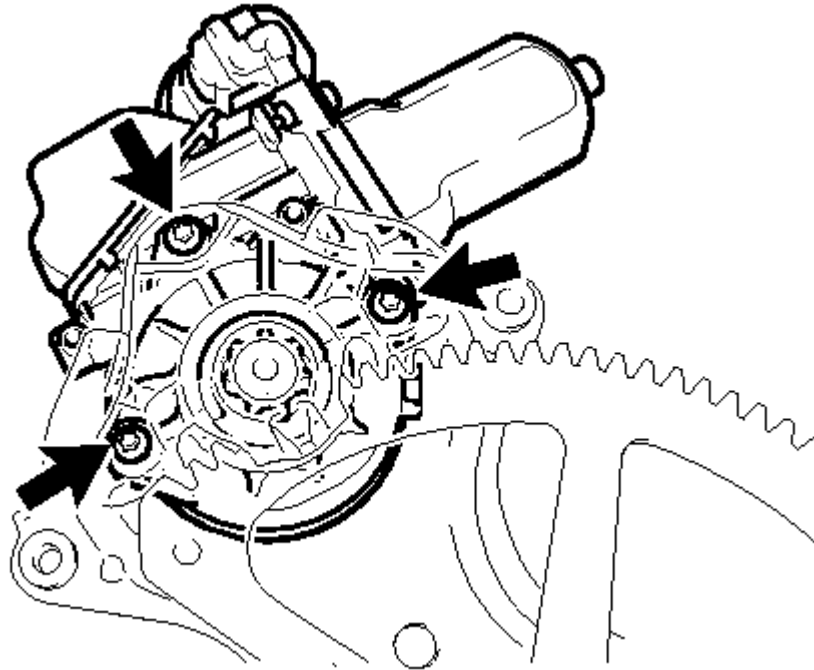
Use the same procedure as for the LH side. Refer to REMOVAL - Step 6 .

9. REMOVE FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY

HINT:

Use the same procedure as for the LH side. Refer to REMOVAL - Step 2 .

10. REMOVE FRONT DOOR CHECK ASSEMBLY . Refer to DISASSEMBLY - Step 15
11. REMOVE FRONT DOOR WEATHERSTRIP . Refer to DISASSEMBLY - Step 16
12. REMOVE FRONT DOOR GLASS RUN . Refer to DISASSEMBLY - Step 17
13. REMOVE FRONT DOOR FRONT LOWER FRAME SUB-ASSEMBLY . Refer to DISASSEMBLY - Step 18
14. REMOVE FRONT DOOR GLASS SUB-ASSEMBLY . Refer to DISASSEMBLY - Step 19
15. REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY . Refer to DISASSEMBLY - Step 21
16. REMOVE POWER WINDOW REGULATOR MOTOR ASSEMBLY
 - a. Using a T25 "TORX" driver, remove the 3 screws and the power window regulator motor.



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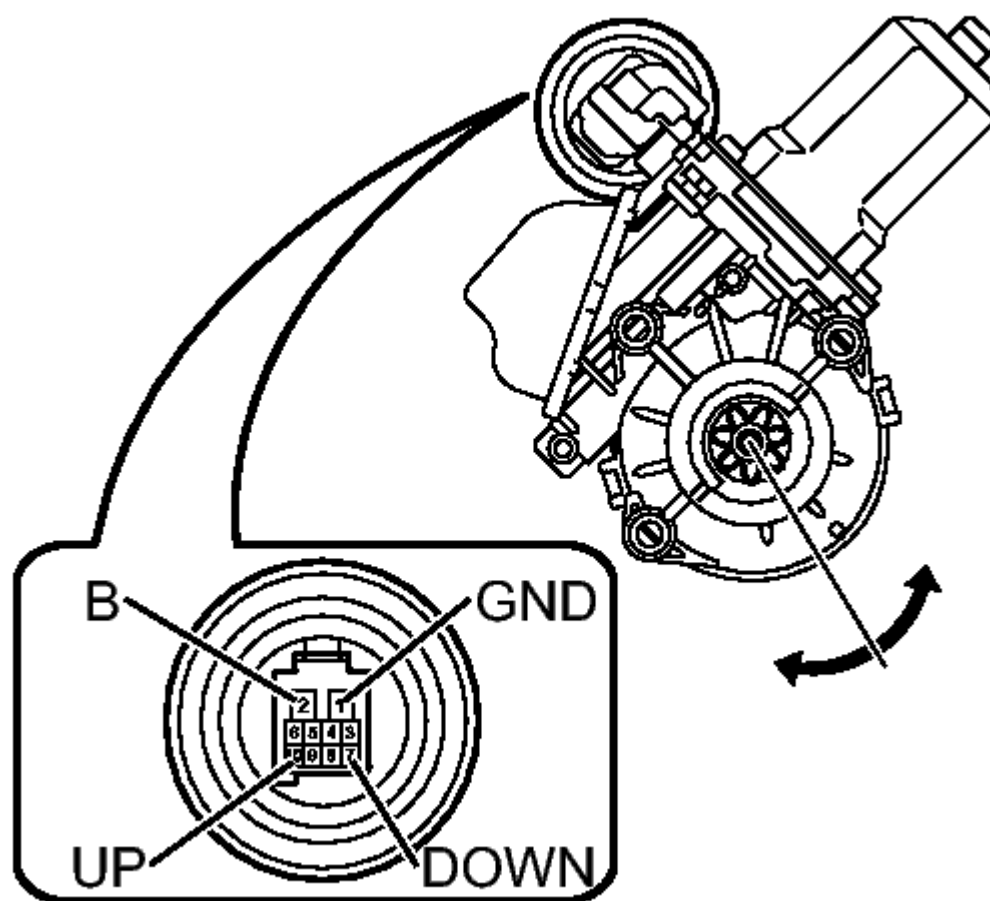
Fig. 18: Identifying Front Power Window Regulator Motor Assembly Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

INSPECTION

- 1. INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH**
 - a. Apply positive (+) battery voltage to connector terminal 2 (B).

*a



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Fig. 19: Identifying Power Window Regulator Motor Assembly Connector Terminals LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

- b. Connect a ground lead to connector terminals 1 (GND) and 7 (DOWN) or 10 (UP).
- c. Check that the motor gear rotates smoothly as follows:

OK

Measurement Condition	Specified Condition
1. Connect a positive	

(+) battery lead to terminal 2 (B), connect a negative (-) battery lead to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 10 (UP). 3. Disconnect and reconnect a negative (-) battery lead to terminal 10 (UP) within 1 second.	Motor gear rotates clockwise (Up)
1. Connect a positive (+) battery lead to terminal 2 (B), connect a negative (-) battery lead to	

terminal 1 (GND), and keep them connected for 3 seconds or more.	
2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 7 (DOWN).	Motor gear rotates counterclockwise (Down)
3. Disconnect and reconnect a negative (-) battery lead to terminal 7 (DOWN) within 1 second.	

TEXT IN ILLUSTRATION

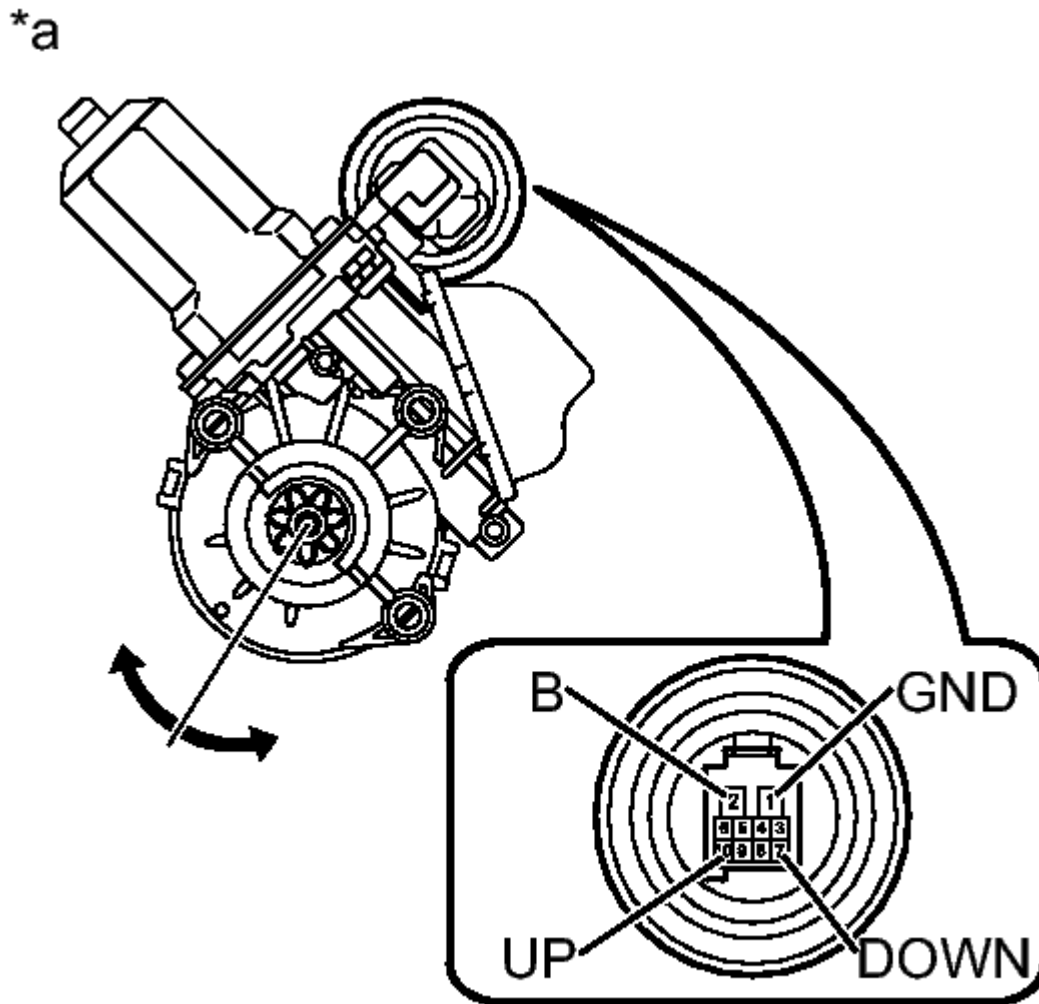
*a	Component without harness connected (to Power Window Regulator Motor LH)
----	--

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

WARNING: Reset the power window regulator motor (initialize the pulse sensor) after installing the power window regulator motor and regulator onto the door.

2. INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY RH

- a. Apply positive (+) battery voltage to connector terminal 2 (B).



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Fig. 20: Identifying Power Window Regulator Motor Assembly Connector Terminals RH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

- b. Connect a ground lead to connector terminals 1 (GND) and 7 (DOWN) or 10 (UP).
- c. Check that the motor gear rotates smoothly as follows:

OK

Measurement	Specified
-------------	-----------

Condition	Condition
1. Connect a positive (+) battery lead to terminal 2 (B), connect a negative (-) battery lead to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 10 (UP). 3. Disconnect and reconnect a negative (-) battery lead to terminal 10 (UP) within 1 second.	Motor gear rotates counterclockwise (Up)
1. Connect a positive (+) battery lead to terminal 2 (B),	

connect a negative (-) battery lead to terminal 1 (GND), and keep them connected for 3 seconds or more.	
2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 7 (DOWN).	Motor gear rotates clockwise (Down)
3. Disconnect and reconnect a negative (-) battery lead to terminal 7 (DOWN) within 1 second.	

TEXT IN ILLUSTRATION

*a	Component without harness connected (to Power Window Regulator Motor RH)
----	--

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

WARNING: Reset the power window regulator motor (initialize the pulse

sensor) after installing the power window regulator motor and regulator onto the door.

INSTALLATION

INSTALLATION

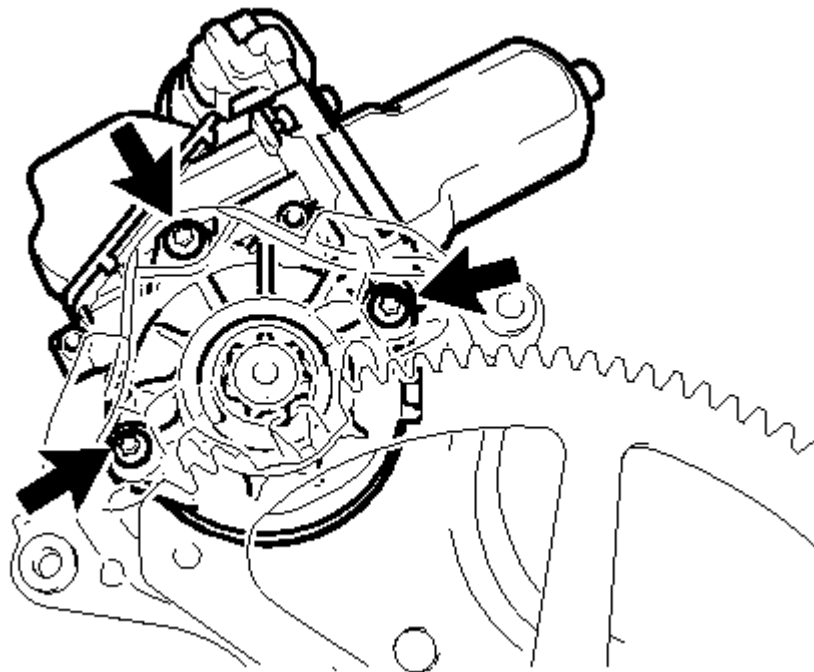
HINT:

- Use the same procedure for the RH side and LH side.
- The procedure listed below is for the RH side.

1. INSTALL POWER WINDOW REGULATOR MOTOR ASSEMBLY

NOTE: The regulator arm must be below the intermediate position when installing the power window regulator motor.

- a. Using a T25 "TORX" driver, install the power window regulator motor with the 3 screws.



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Fig. 21: Identifying Front Power Window Regulator Motor Assembly Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

HINT:

A new front window regulator uses self-tapping screws to thread new installation holes when the self-tapping screws are inserted.

2. **INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 14**
3. **INSTALL FRONT DOOR GLASS SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 16**
4. **INSTALL FRONT DOOR FRONT LOWER FRAME SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 17**
5. **INSTALL FRONT DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 18**
6. **INSTALL FRONT DOOR WEATHERSTRIP** . Refer to **REASSEMBLY - Step 19**
7. **INSTALL FRONT DOOR CHECK ASSEMBLY** . Refer to **REASSEMBLY - Step 20**
8. **INSTALL FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 1** .

9. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 3** .

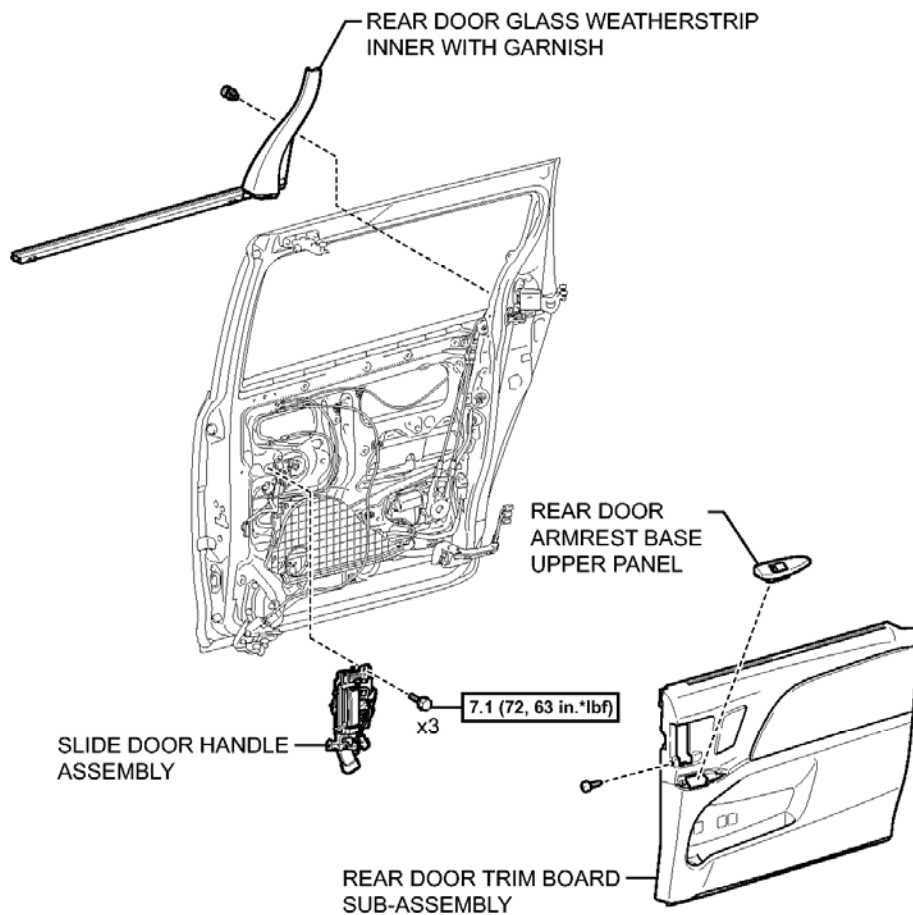
10. **INSTALL FRONT DOOR SERVICE HOLE COVER** . Refer to **REASSEMBLY - Step 23**
11. **INSTALL OUTER MIRROR CONTROL ECU ASSEMBLY (w/ Memory)** . Refer to **INSTALLATION - Step 1**
12. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 30**
13. **INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH** . Refer to **REASSEMBLY - Step 31**
14. **INSTALL FRONT DOOR INSIDE HANDLE BEZEL PLUG** . Refer to **REASSEMBLY - Step 32**
15. **INSTALL FRONT DOOR ARMREST BASE PANEL ASSEMBLY** . Refer to **REASSEMBLY - Step 33**
16. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected. Refer to **INITIALIZATION** .

POWER WINDOW REGULATOR MOTOR (FOR REAR DOOR)

COMPONENTS

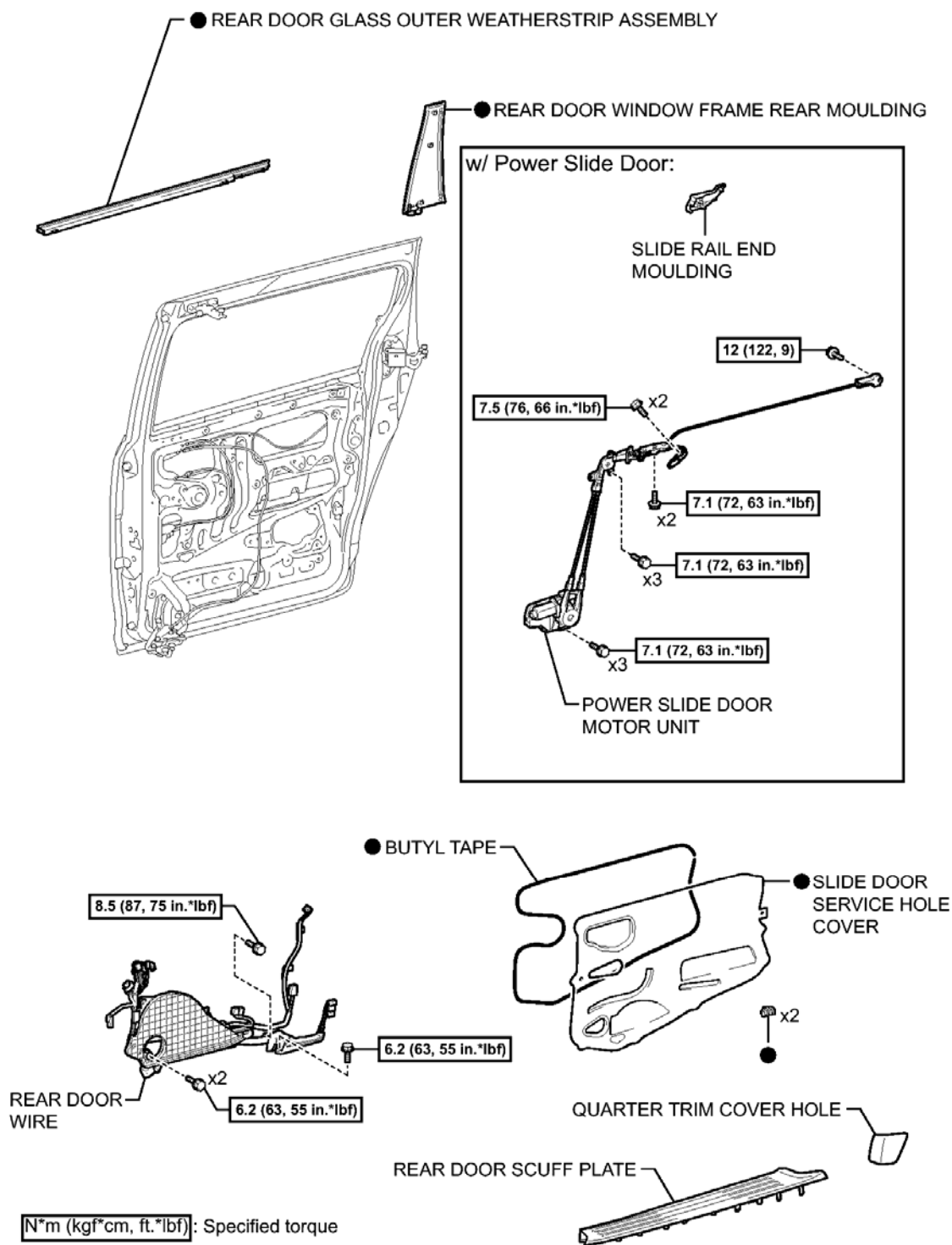
ILLUSTRATION



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

Fig. 22: Power Window Regulator Motor Replacement Components With Torque Specifications (1 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

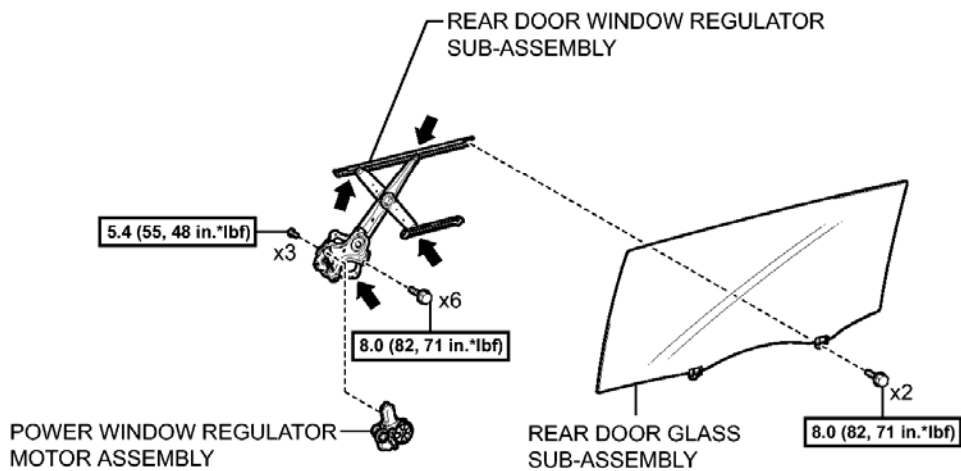
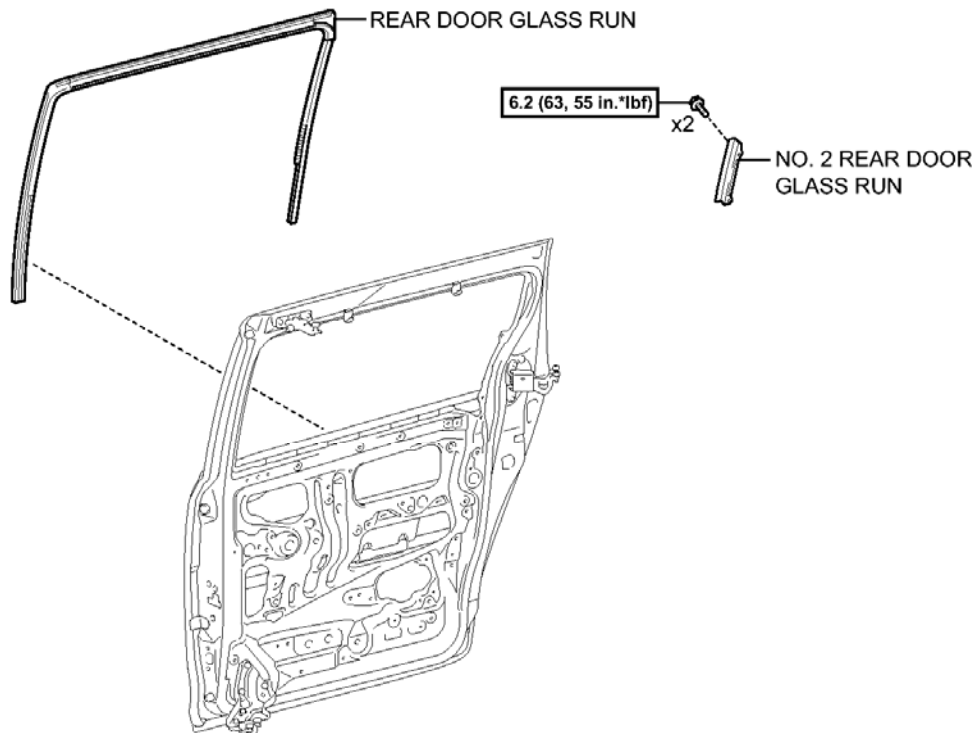
ILLUSTRATION



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Fig. 23: Power Window Regulator Motor Replacement Components With Torque Specifications (2 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



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

MP grease

P

Fig. 24: Power Window Regulator Motor Replacement Components With Torque Specifications (3 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

- Use the same procedure for the LH side and RH side.
- The procedure listed below is the RH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

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

2. REMOVE REAR DOOR ARMREST BASE UPPER PANEL . Refer to DISASSEMBLY - Step 2
3. REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY . Refer to DISASSEMBLY - Step 3
4. REMOVE REAR DOOR GLASS WEATHERSTRIP INNER WITH GARNISH . Refer to DISASSEMBLY - Step 5
5. REMOVE SLIDE DOOR HANDLE ASSEMBLY (w/o Power Slide Door) . Refer to REMOVAL - Step 4
6. REMOVE SLIDE DOOR HANDLE ASSEMBLY (w/ Power Slide Door) . Refer to REMOVAL - Step 5
7. REMOVE REAR DOOR SCUFF PLATE . Refer to REMOVAL - Step 13
8. REMOVE QUARTER TRIM COVER HOLE . Refer to DISASSEMBLY - Step 12
9. REMOVE REAR DOOR WIRE (w/o Power Slide Door) . Refer to DISASSEMBLY - Step 13
10. REMOVE REAR DOOR WIRE (w/ Power Slide Door) . Refer to DISASSEMBLY - Step 14
11. REMOVE QUARTER WINDOW GLASS (w/ Power Slide Door)

Refer to REMOVAL

12. REMOVE SLIDE RAIL END MOULDING (w/ Power Slide Door) . Refer to DISASSEMBLY - Step 16
13. REMOVE POWER SLIDE DOOR MOTOR UNIT (w/ Power Slide Door) . Refer to REMOVAL - Step 6
14. REMOVE SLIDE DOOR SERVICE HOLE COVER . Refer to DISASSEMBLY - Step 19
15. REMOVE REAR DOOR WINDOW FRAME REAR MOULDING

HINT:

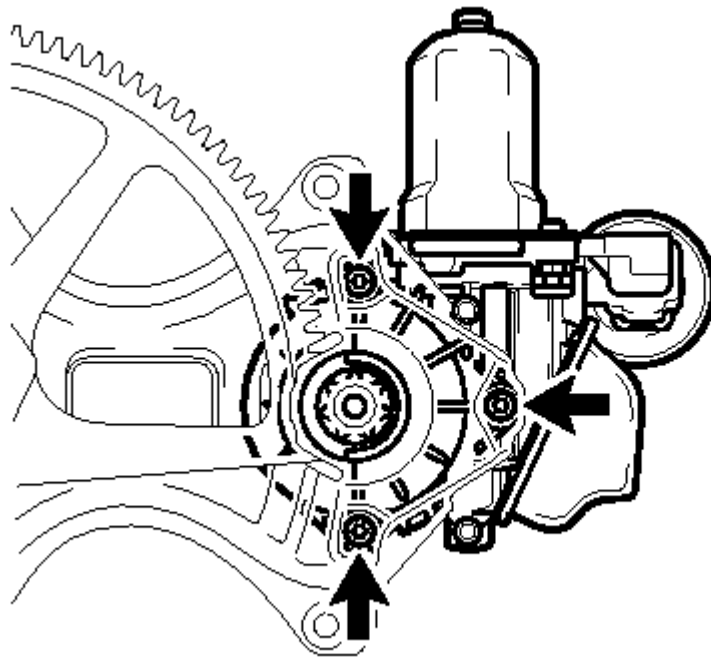
Use the same procedure as for the LH side. Refer to REMOVAL - Step 1 .

16. REMOVE REAR DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY

HINT:

Use the same procedure as for the LH side. Refer to REMOVAL - Step 2 .

17. **REMOVE REAR DOOR GLASS RUN** . Refer to **DISASSEMBLY - Step 22**
18. **REMOVE NO. 2 REAR DOOR GLASS RUN** . Refer to **DISASSEMBLY - Step 24**
19. **REMOVE REAR DOOR GLASS SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 25**
20. **REMOVE REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY** . Refer to **DISASSEMBLY - Step 26**
21. **REMOVE POWER WINDOW REGULATOR MOTOR ASSEMBLY**
 - a. Using a T25 "TORX" driver, remove the 3 screws and power window regulator motor.



P

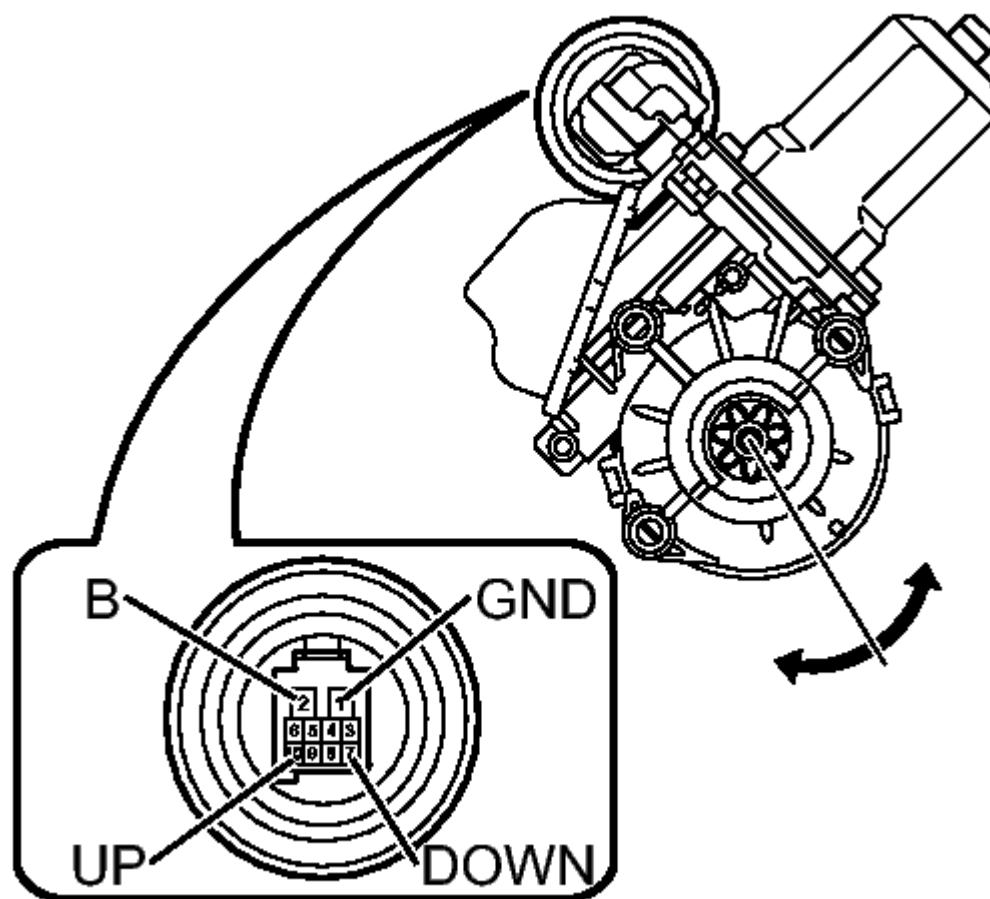
Fig. 25: Identifying Power Window Regulator Motor Assembly & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

INSPECTION

1. **INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH**
 - a. Apply positive (+) battery voltage to connector terminal 2 (B).

*a



H

Fig. 26: Identifying Power Window Regulator Motor Assembly Connector Terminals LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

- b. Connect a ground lead to connector terminals 1 (GND) and 7 (DOWN) or 10 (UP).
- c. Check that the motor gear rotates smoothly as follows:

OK

Measurement Condition	Specified Condition
1. Connect a positive	

(+) battery lead to terminal 2 (B), connect a negative (-) battery lead to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 10 (UP). 3. Disconnect and reconnect a negative (-) battery lead to terminal 10 (UP) within 1 second.	Motor gear rotates clockwise (Up)
1. Connect a positive (+) battery lead to terminal 2 (B), connect a negative (-) battery lead to	

terminal 1 (GND), and keep them connected for 3 seconds or more.	
2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 7 (DOWN).	Motor gear rotates counterclockwise (Down)
3. Disconnect and reconnect a negative (-) battery lead to terminal 7 (DOWN) within 1 second.	

TEXT IN ILLUSTRATION

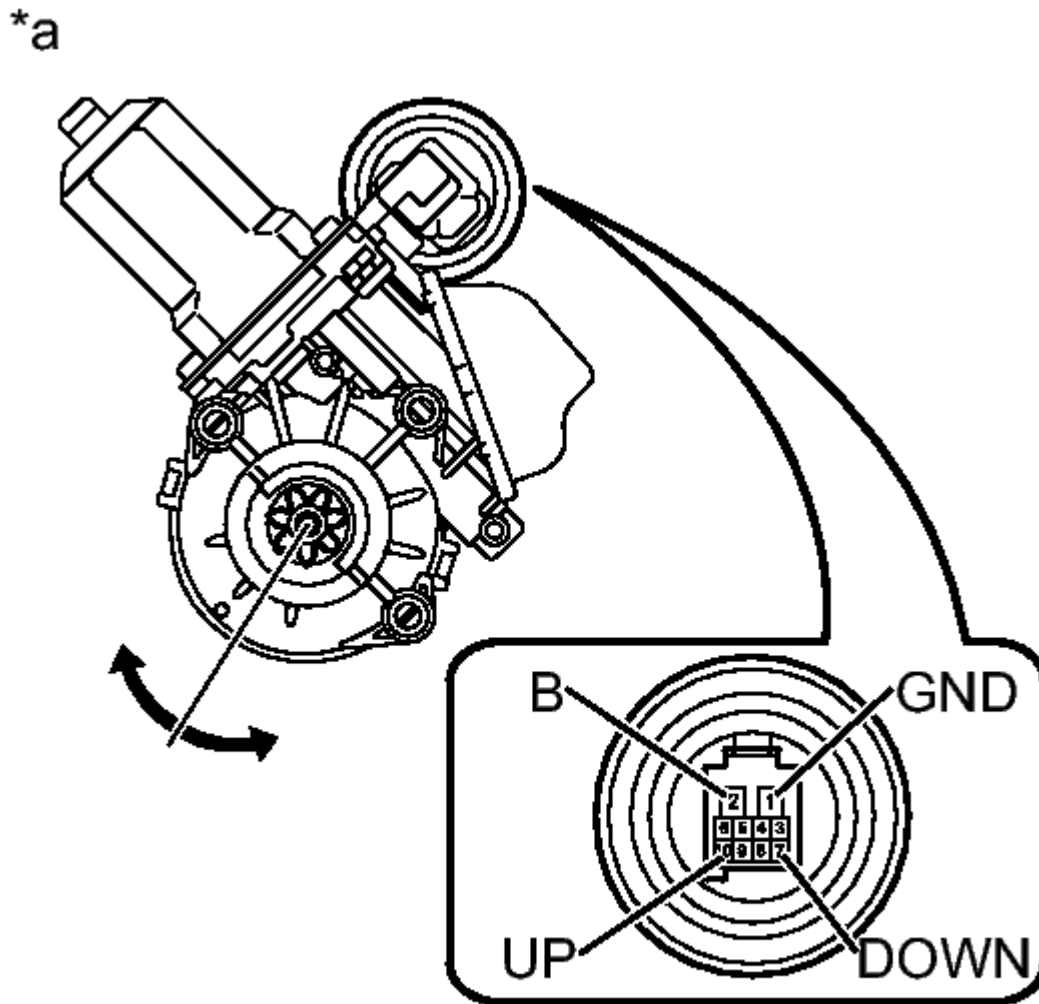
*a	Component without harness connected (to Power Window Regulator Motor LH)
----	--

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

WARNING: Reset the power window regulator motor (initialize the pulse sensor) after installing the power window regulator motor and regulator onto the door.

2. INSPECT POWER WINDOW REGULATOR MOTOR ASSEMBLY RH

- a. Apply positive (+) battery voltage to connector terminal 2 (B).



H

Fig. 27: Identifying Power Window Regulator Motor Assembly Connector Terminals RH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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

- b. Connect a ground lead to connector terminals 1 (GND) and 7 (DOWN) or 10 (UP).
- c. Check that the motor gear rotates smoothly as follows:

OK

Measurement	Specified
-------------	-----------

Condition	Condition
1. Connect a positive (+) battery lead to terminal 2 (B), connect a negative (-) battery lead to terminal 1 (GND), and keep them connected for 3 seconds or more. 2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 10 (UP). 3. Disconnect and reconnect a negative (-) battery lead to terminal 10 (UP) within 1 second.	Motor gear rotates counterclockwise (Up)
1. Connect a positive (+) battery lead to terminal 2 (B),	

connect a negative (-) battery lead to terminal 1 (GND), and keep them connected for 3 seconds or more.	
2. With terminals 2 (B) and 1 (GND) connected, connect a negative (-) battery lead to terminal 7 (DOWN).	Motor gear rotates clockwise (Down)
3. Disconnect and reconnect a negative (-) battery lead to terminal 7 (DOWN) within 1 second.	

TEXT IN ILLUSTRATION

*a	Component without harness connected (to Power Window Regulator Motor RH)
----	--

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

WARNING: Reset the power window regulator motor (initialize the pulse

sensor) after installing the power window regulator motor and regulator onto the door.

INSTALLATION

INSTALLATION

1. INSTALL POWER WINDOW REGULATOR MOTOR ASSEMBLY

NOTE: The regulator arm must be below the intermediate position when installing the power window regulator motor.

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

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

HINT:

A new rear power window regulator motor assembly uses self-tapping screws to thread new installation holes when the self-tapping screws are inserted.

2. **INSTALL REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 22**
3. **INSTALL REAR DOOR GLASS SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 23**
4. **INSTALL NO. 2 REAR DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 24**
5. **INSTALL REAR DOOR GLASS RUN** . Refer to **REASSEMBLY - Step 26**
6. **INSTALL REAR DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**

HINT:

Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 1** .

7. INSTALL REAR DOOR WINDOW FRAME REAR MOULDING

HINT:

Use the same procedure as for the LH side. Refer to **INSTALLATION - Step 1** .

8. **INSTALL SLIDE DOOR SERVICE HOLE COVER** . Refer to **REASSEMBLY - Step 29**
9. **INSTALL POWER SLIDE DOOR MOTOR UNIT (w/ Power Slide Door)** . Refer to **INSTALLATION - Step 1**
10. **INSTALL SLIDE RAIL END MOULDING (w/ Power Slide Door)** . Refer to **REASSEMBLY - Step 32**
11. **INSTALL QUARTER WINDOW GLASS (w/ Power Slide Door)**

Refer to **INSTALLATION**

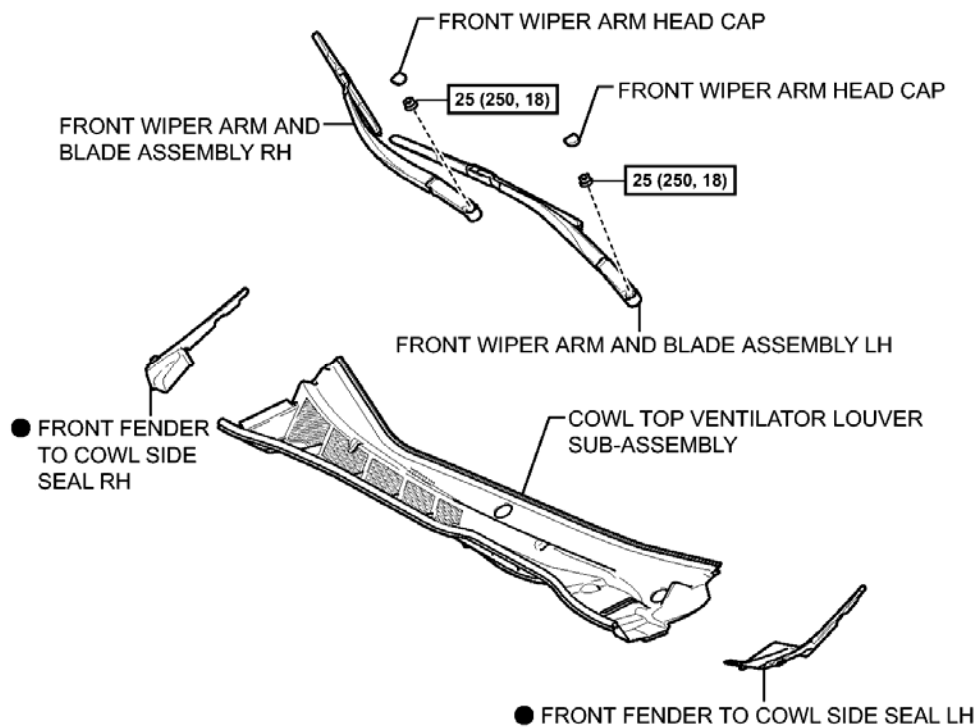
12. **INSTALL REAR DOOR WIRE (w/o Power Slide Door)** . Refer to **REASSEMBLY - Step 34**
13. **INSTALL REAR DOOR WIRE (w/ Power Slide Door)** . Refer to **REASSEMBLY - Step 35**
14. **INSTALL QUARTER TRIM COVER HOLE** . Refer to **REASSEMBLY - Step 36**
15. **INSTALL REAR DOOR SCUFF PLATE** . Refer to **INSTALLATION - Step 27**
16. **INSTALL SLIDE DOOR HANDLE ASSEMBLY (w/o Power Slide Door)** . Refer to **INSTALLATION - Step 19**
17. **INSTALL SLIDE DOOR HANDLE ASSEMBLY (w/ Power Slide Door)** . Refer to **INSTALLATION - Step 20**
18. **INSTALL REAR DOOR GLASS WEATHERSTRIP INNER WITH GARNISH** . Refer to **REASSEMBLY - Step 43**
19. **INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY** . Refer to **REASSEMBLY - Step 45**
20. **INSTALL REAR DOOR ARMREST BASE UPPER PANEL** . Refer to **REASSEMBLY - Step 46**
21. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected. Refer to **INITIALIZATION** .

WINDSHIELD GLASS

COMPONENTS

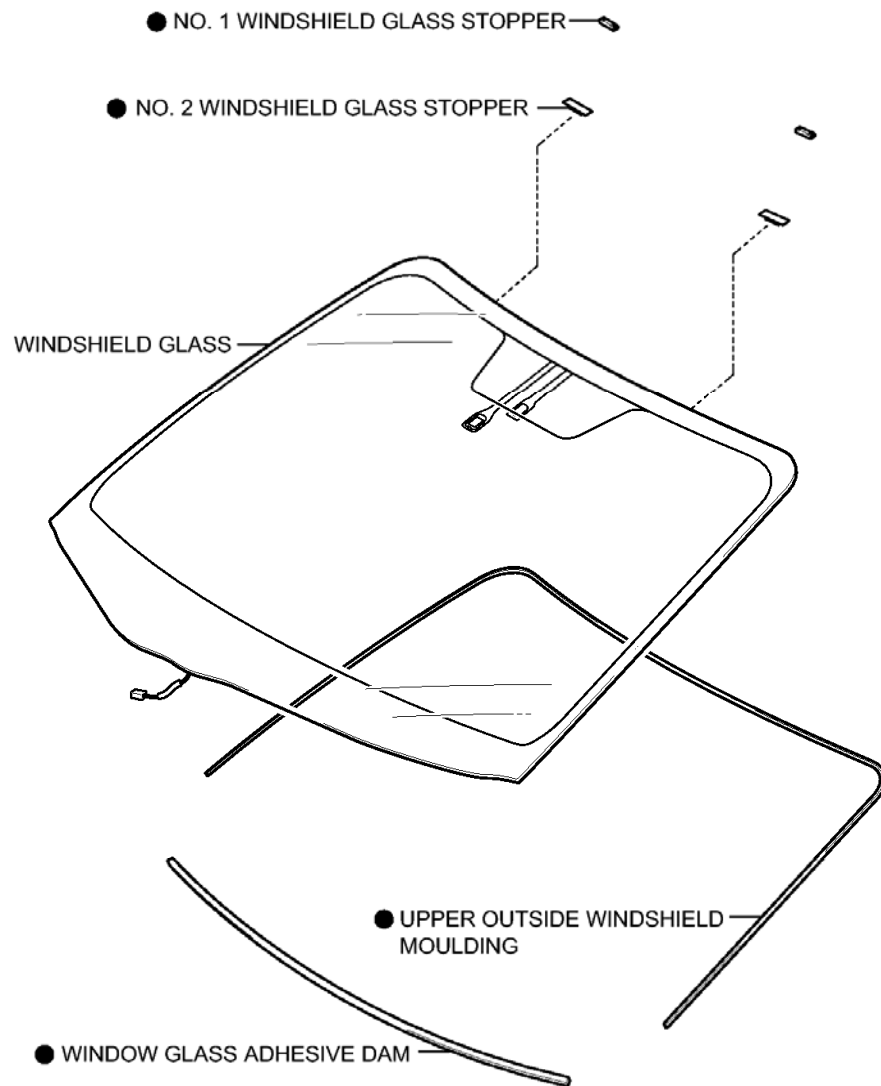
ILLUSTRATION



$\boxed{\text{N}\cdot\text{m} \text{ (kgf}\cdot\text{cm, ft.}\cdot\text{lbf)}}$: Specified torque ● Non-reusable part

Fig. 28: Windshield Glass Replacement Components With Torque Specifications (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



● Non-reusable part

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Fig. 29: Windshield Glass Replacement Components (2 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE FRONT WIPER ARM HEAD CAP . Refer to **REMOVAL - Step 1**

2. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH** . Refer to **REMOVAL - Step 2**
3. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH** . Refer to **REMOVAL - Step 3**
4. **REMOVE FRONT FENDER TO COWL SIDE SEAL LH** . Refer to **REMOVAL - Step 4**
5. **REMOVE FRONT FENDER TO COWL SIDE SEAL RH** . Refer to **REMOVAL - Step 5**
6. **REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY** . Refer to **REMOVAL - Step 6**
7. **REMOVE INNER REAR VIEW MIRROR ASSEMBLY**

Refer to **REMOVAL**

8. **REMOVE RAIN SENSOR (w/ Rain Sensor)**

Refer to **REMOVAL**

9. **REMOVE ROOF HEADLINING ASSEMBLY**

Refer to **REMOVAL**

- a. Slightly lower the front section of the roof headlining assembly so that the windshield glass can be removed.

HINT:

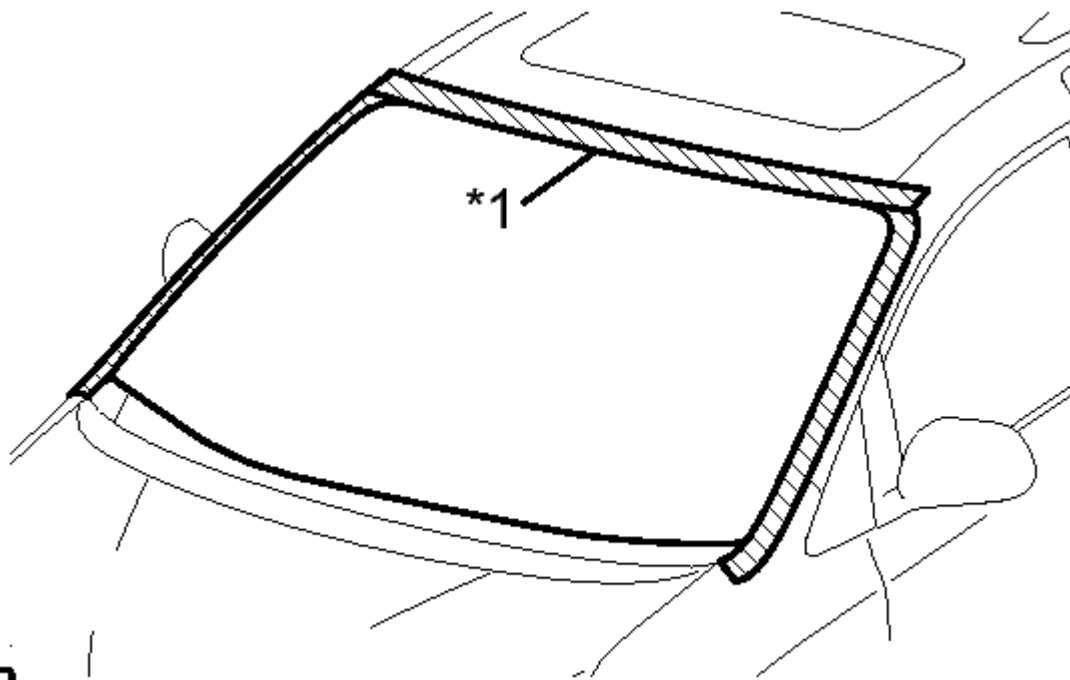
It is not necessary to completely remove the roof headlining assembly.

10. **REMOVE WINDSHIELD GLASS**

- a. Disconnect the connector (w/ deicer).
- b. Apply protective tape to the installation position of the windshield glass on the vehicle body.

TEXT IN ILLUSTRATION





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Fig. 30: Identifying Windshield Glass & Protective Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

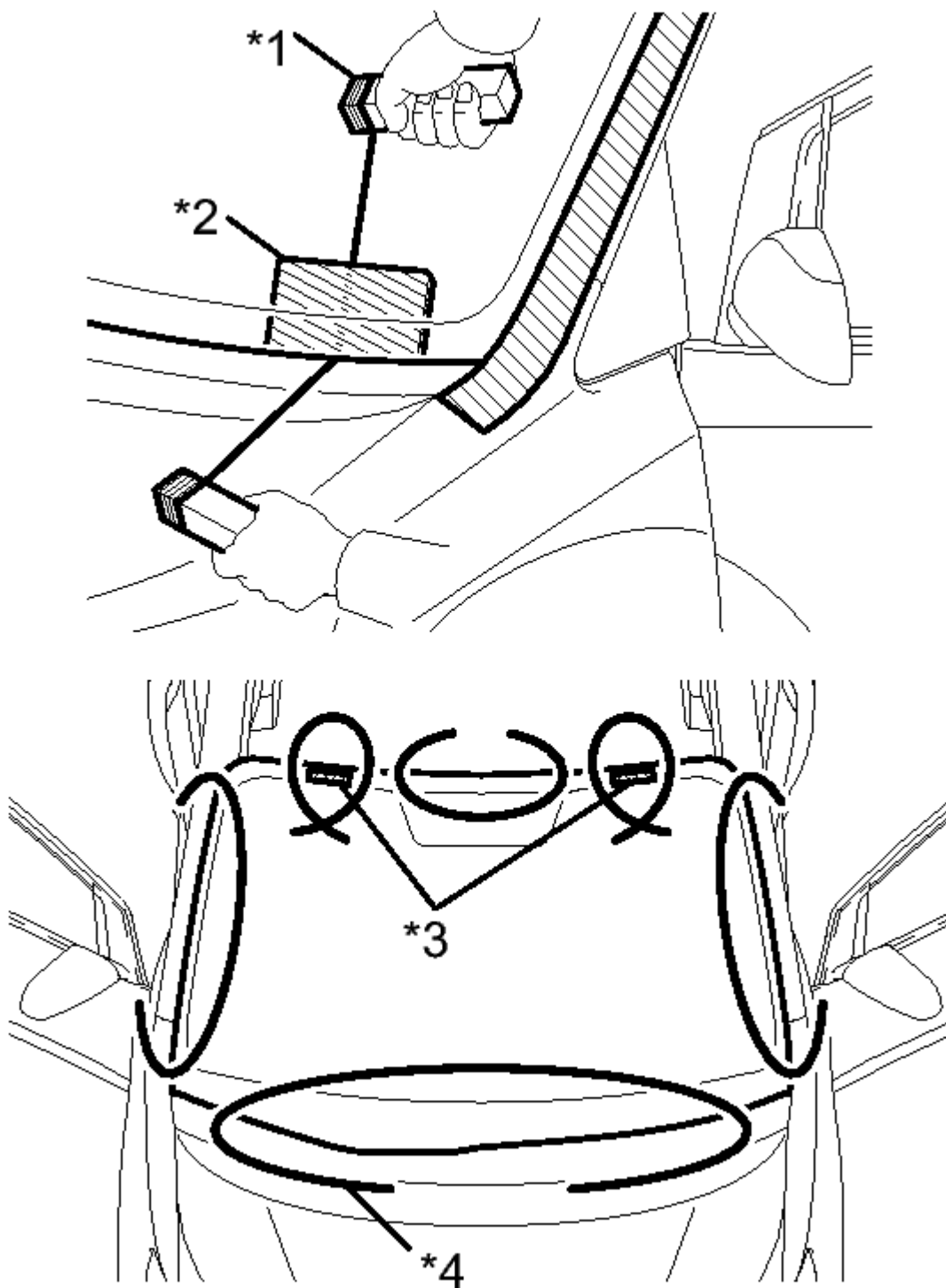
HINT:

Apply protective tape to the installation surface to prevent it from being scratched.

- c. Pass a piano wire between the vehicle body and glass from the interior, as shown in the illustration.

HINT:

Do not allow the piano wire to interfere with the clips.



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Fig. 31: Removing Windshield Glass Assembly
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

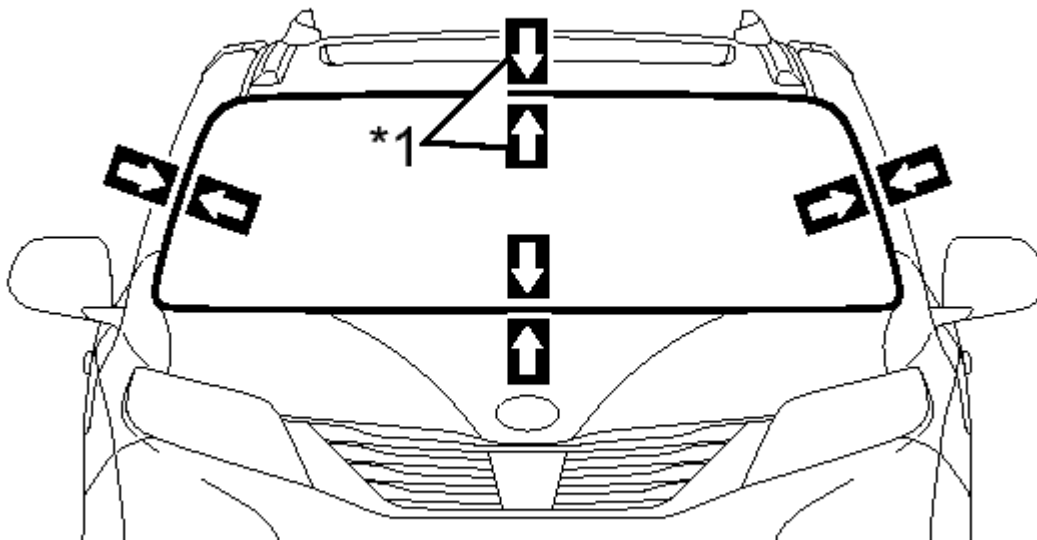
Wooden

*1	Block
*2	Plastic Sheet
*3	Stopper
*4	Piano Wire

- d. Tie both wire ends to wooden blocks or similar objects that can serve as handles.
- e. Cut off the adhesive by pulling the piano wire around the windshield glass.

NOTE:

- When separating the windshield glass, be careful not to damage the paint or the interior and exterior ornaments.
 - To prevent the safety pad from being scratched when removing the windshield glass, place a plastic sheet between the piano wire and safety pad.
- f. Place matchmarks on the windshield glass and vehicle body on the locations indicated in the illustration.



P

Fig. 32: Identifying Windshield Glass Matchmarks
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

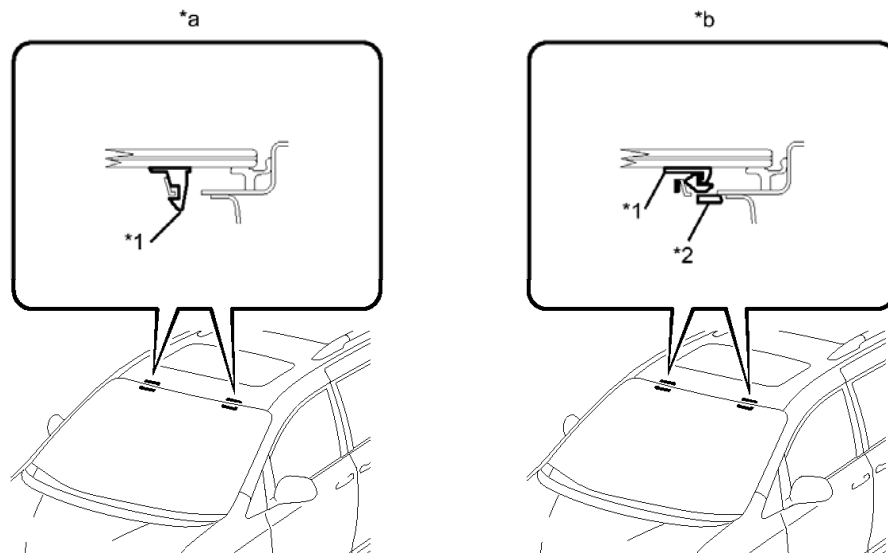
TEXT IN ILLUSTRATION

*1	Matchmark
----	-----------

HINT:

Matchmarks are not necessary if the windshield glass is not going to be reused.

- g. Disconnect the windshield glass stoppers.



P

Fig. 33: Identifying Windshield Glass Stoppers

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

TEXT IN ILLUSTRATION

*1	No. 2 Stopper	*2	No. 1 Stopper
*a	1-piece Type	*b	2-piece Type

NOTE:

- There are No. 1 and No. 2 stoppers on the windshield glass as shown in the illustration.
- To prevent the windshield glass from dropping when performing this operation, be sure to hold the windshield glass using suction cups.

HINT:

Depending on vehicles, 1-piece or 2-piece type stoppers are used.

- h. Using suction cups, remove the windshield glass.

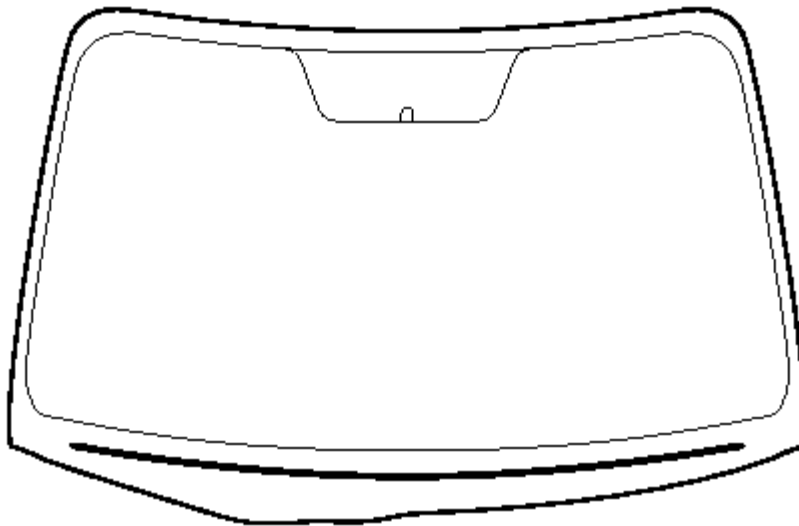
NOTE:

- Be careful not to drop the windshield glass.

- Leave as much adhesive on the vehicle body as possible when removing the windshield glass.

11. REMOVE WINDOW GLASS ADHESIVE DAM

- a. Using a scraper, remove the window glass adhesive dam.



P

Fig. 34: Identifying Window Glass Adhesive Dam

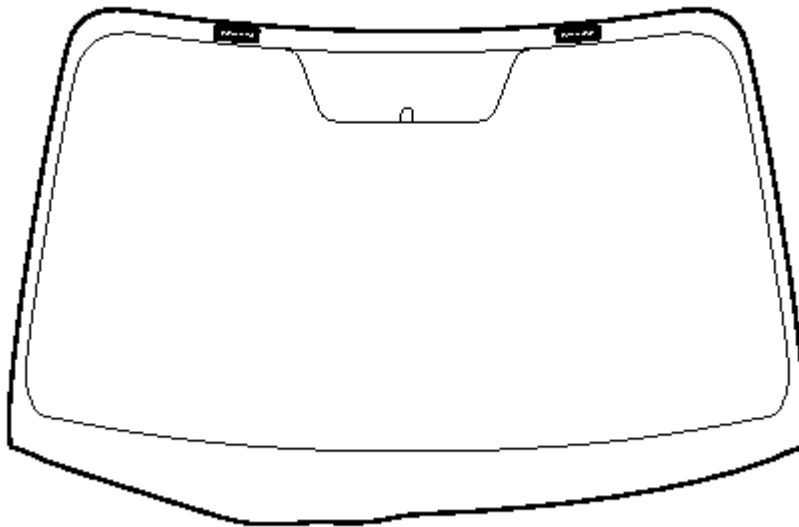
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- Be careful not to damage the windshield glass.
- Be sure to replace the window glass adhesive dam with a new one.

12. REMOVE NO. 2 WINDSHIELD GLASS STOPPER

- a. Using a scraper, remove the 2 No. 2 windshield glass stoppers.



P

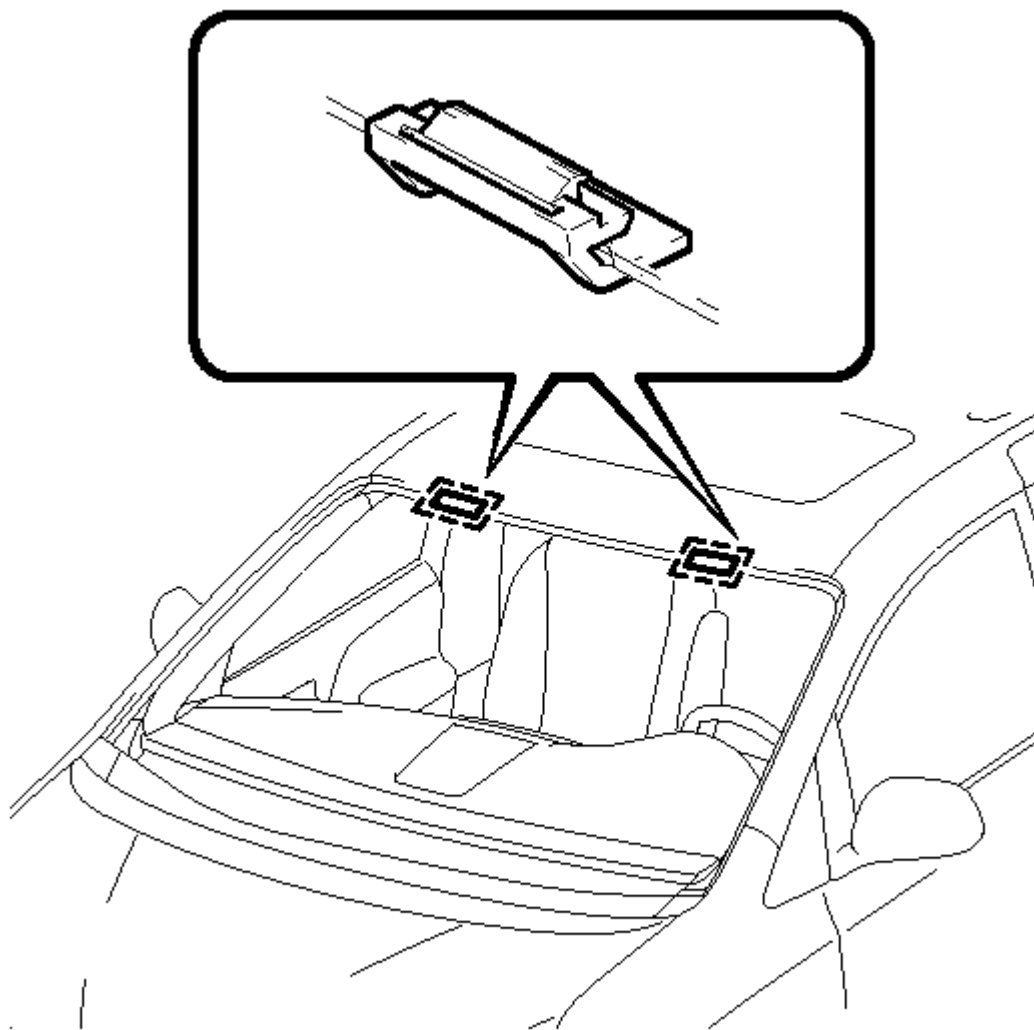
Fig. 35: Identifying No. 2 Windshield Glass Stopper
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- Be careful not to damage the windshield glass.
- Be sure to replace the No. 2 windshield glass stoppers with new ones.

13. REMOVE NO. 1 WINDSHIELD GLASS STOPPER (for 2-piece Type)

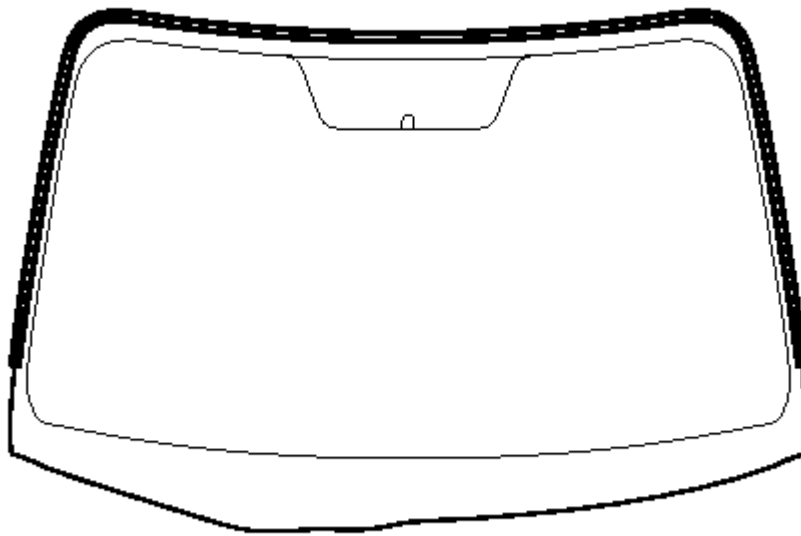
- a. Remove the 2 No. 1 windshield glass stoppers as shown in the illustration.



P

Fig. 36: Identifying No. 1 Windshield Glass Stopper (For 2-Piece Type)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. REMOVE UPPER OUTSIDE WINDSHIELD MOULDING



P

Fig. 37: Identifying Upper Outside Windshield Moulding

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

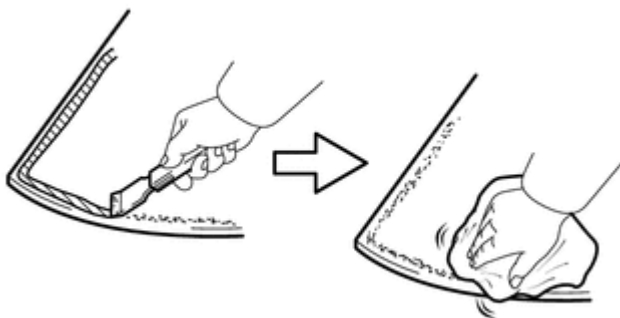
- a. Using a scraper, remove the upper outside windshield moulding.

NOTE:

- Be careful not to damage the windshield glass.
- Be sure to replace the upper outside windshield moulding with a new one.

15. CLEAN WINDSHIELD GLASS

- a. Using a scraper, remove the adhesive tape and adhesive sticking to the windshield glass.



P

Fig. 38: Cleaning Windshield Glass

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

NOTE: Be careful not to damage the windshield glass.

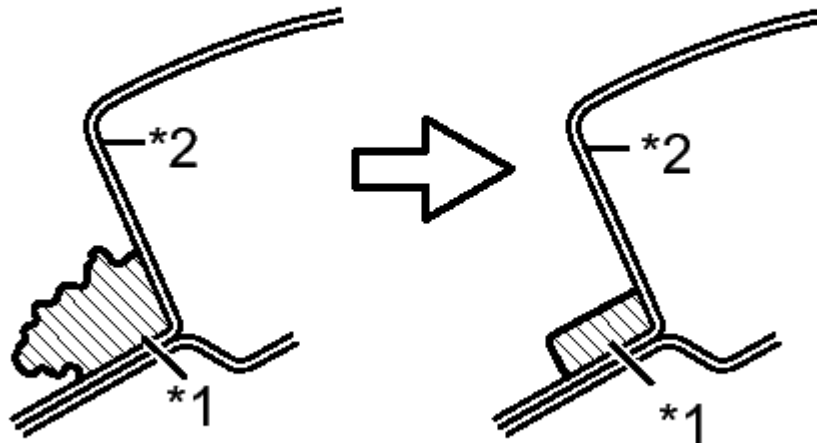
- b. Clean the outer circumference of the windshield glass with a non-residue solvent.

NOTE:

- Do not touch the windshield glass surface after cleaning it.
- Even if using a new windshield glass, clean the windshield glass with a non-residue solvent.

16. CLEAN VEHICLE BODY

- a. Clean and shape the contact surfaces of the vehicle body.



P

Fig. 39: Identifying Contact Surfaces Of Vehicle Body
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Using a knife, cut away excess adhesive on the contact surfaces of the vehicle body, as shown in the illustration.

TEXT IN ILLUSTRATION

*1	Adhesive
*2	Body

NOTE: Be careful not to damage the vehicle body.

HINT:

Leave as much adhesive on the vehicle body as possible.

2. Clean the contact surfaces of the vehicle body with a piece of cloth saturated with cleaner.

HINT:

Even if all the adhesive has been removed, clean the vehicle body.

INSTALLATION

INSTALLATION

1. INSTALL NO. 2 WINDSHIELD GLASS STOPPER

- a. Using a brush or a sponge, coat the application area of 2 new No. 2 windshield glass stoppers with Primer G.

NOTE:

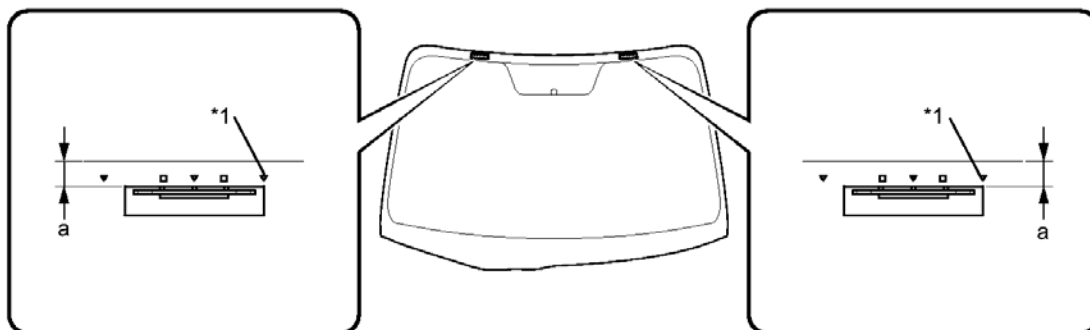
- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

HINT:

If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.

- b. Install the 2 new No. 2 windshield glass stoppers onto the windshield glass, as shown in the illustration.

*a



P

Fig. 40: Identifying No. 2 Windshield Glass Stoppers
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Ceramic	-	-
----	---------	---	---

	Notch		
*a	Back Side	-	-

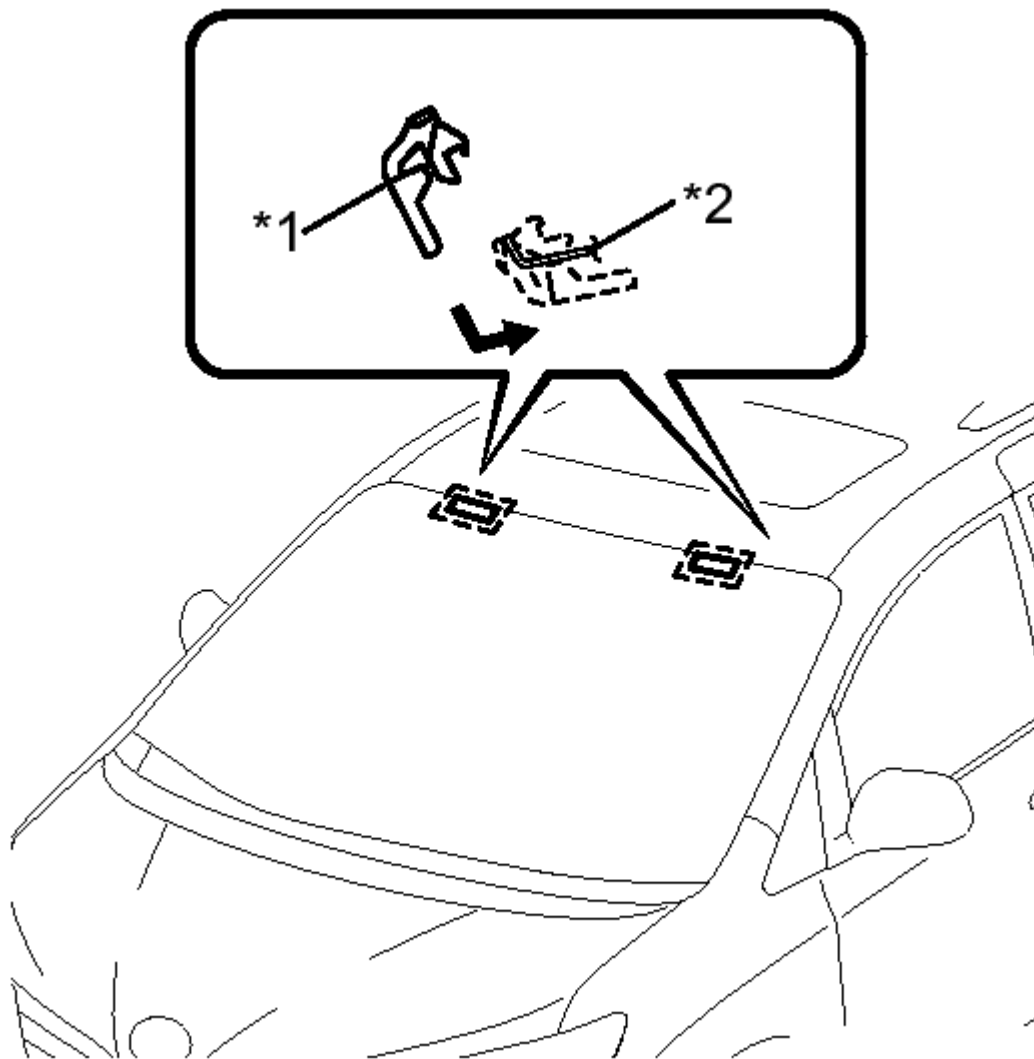
Standard Dimension

Item	Dimension
a	15.0 mm (0.591 in.)

NOTE: Only the 2-piece type No. 1 windshield glass stoppers are supplied. Use the 2-piece type stoppers even if the 1-piece type stoppers were used.

2. INSTALL NO. 1 WINDSHIELD GLASS STOPPER

- a. Install the 2 No. 1 windshield glass stoppers to the vehicle body, as shown in the illustration.



P

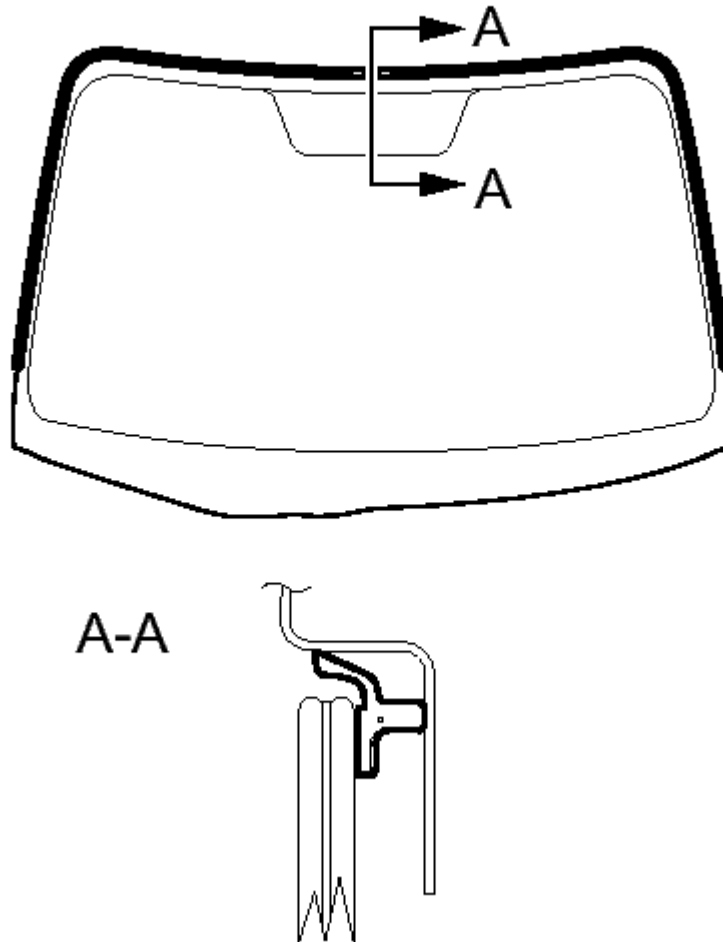
Fig. 41: Identifying No. 1 Windshield Glass Stoppers
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Stopper
*2	Body

NOTE: Only the 2-piece type No. 1 windshield glass stoppers are supplied. Use the 2-piece type stoppers even if the 1-piece type stoppers were used.

3. INSTALL UPPER OUTSIDE WINDSHIELD MOULDING



P

Fig. 42: Identifying Upper Outside Windshield Moulding
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Using a brush or a sponge, coat the application area of the upper outside windshield moulding with Primer G.

NOTE:

- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

HINT:

If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.

- b. Install a new upper outside windshield moulding onto the windshield glass, as shown in the illustration.

4. INSTALL WINDOW GLASS ADHESIVE DAM

- a. Using a brush or a sponge, coat the application area of the windshield glass adhesive dam with Primer G.

NOTE:

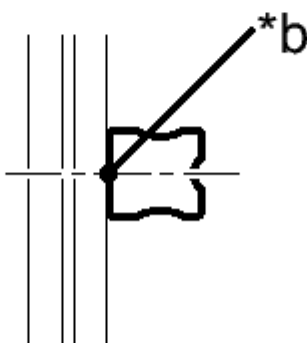
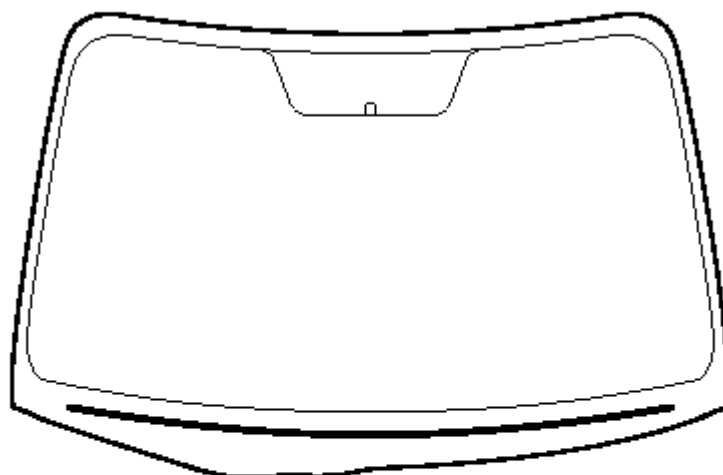
- **Do not apply too much primer.**
- **Allow the primer to dry for 3 minutes or more.**
- **Throw away any leftover primer.**

HINT:

If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.

- b. Install a new adhesive dam onto the windshield glass, as shown in the illustration.

*a



P

Fig. 43: Identifying Windshield Glass Dam Reference Line
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

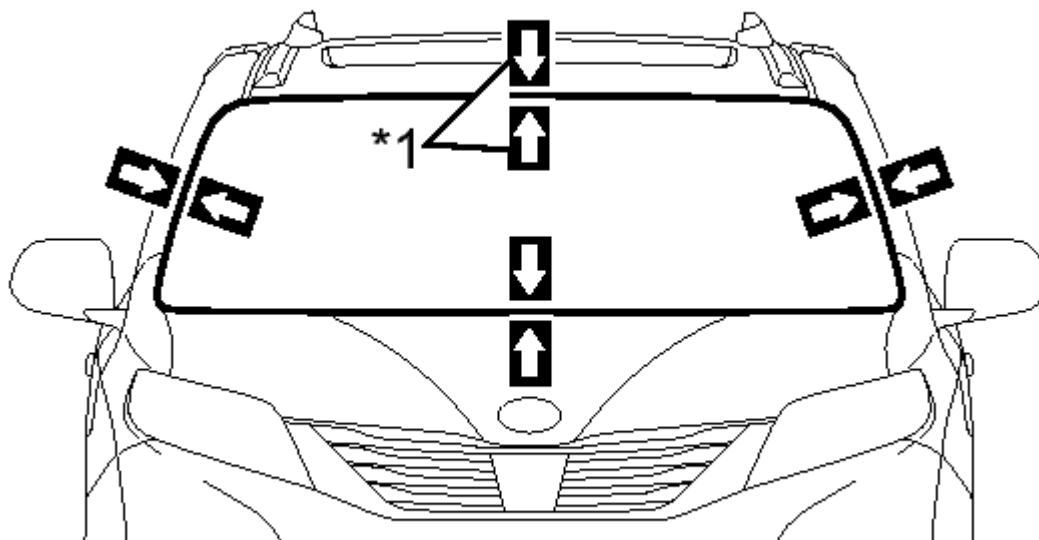
TEXT IN ILLUSTRATION

*a	Back Side
*b	Dam Reference Line

NOTE: Install the new adhesive dam along the dam reference line.

5. INSTALL WINDSHIELD GLASS

- a. Position the windshield glass.



P

Fig. 44: Identifying Windshield Glass Matchmarks

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

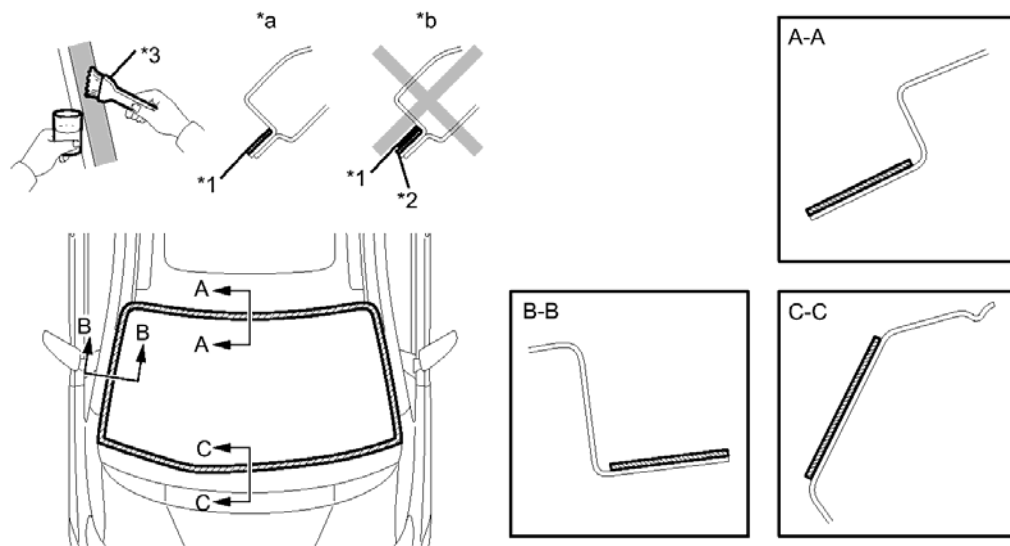
TEXT IN ILLUSTRATION

*1 Matchmark

1. Using suction cups, place the windshield glass in the correct position.
2. Check that the whole contact surface of the windshield glass rim is perfectly even.
3. Align the matchmarks on the windshield glass and vehicle body.

NOTE: Check that the windshield glass stoppers are attached to the vehicle body correctly.

4. Remove the windshield glass.
- b. Using a brush, coat the installation surface on the vehicle body with Primer M.



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Fig. 45: Identifying Windshield Glass Installation Surface With Primer M
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Primer M	*2	Adhesive
*3	Brush	-	-
*a	CORRECT	*b	WRONG

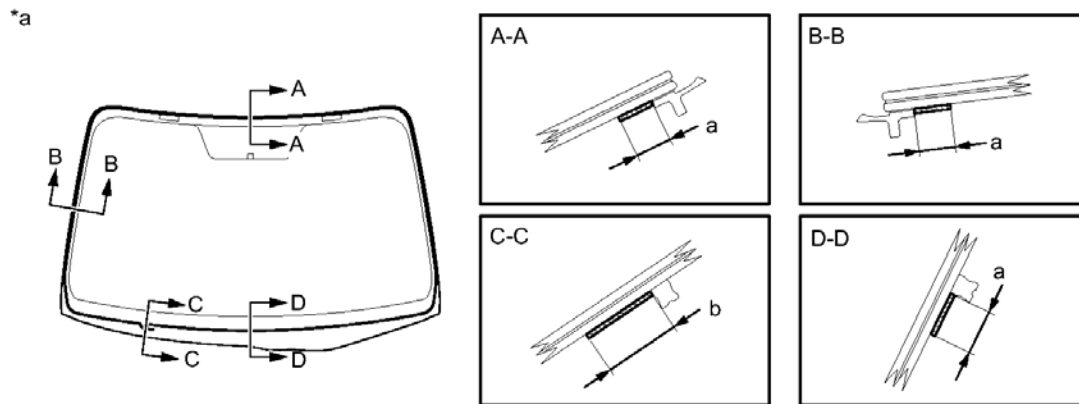
NOTE:

- Do not coat the adhesive with Primer M.
- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

HINT:

If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.

- Using a brush or a sponge, coat the application area of adhesive with Primer G.



P

Fig. 46: Identifying Window Glass Application Area With Primer G
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Back	-
	Side	-

Standard Dimension

Item	Dimension
a	11.0 mm (0.433 in.)
b	9.0 mm (0.748 in.)

NOTE:

- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

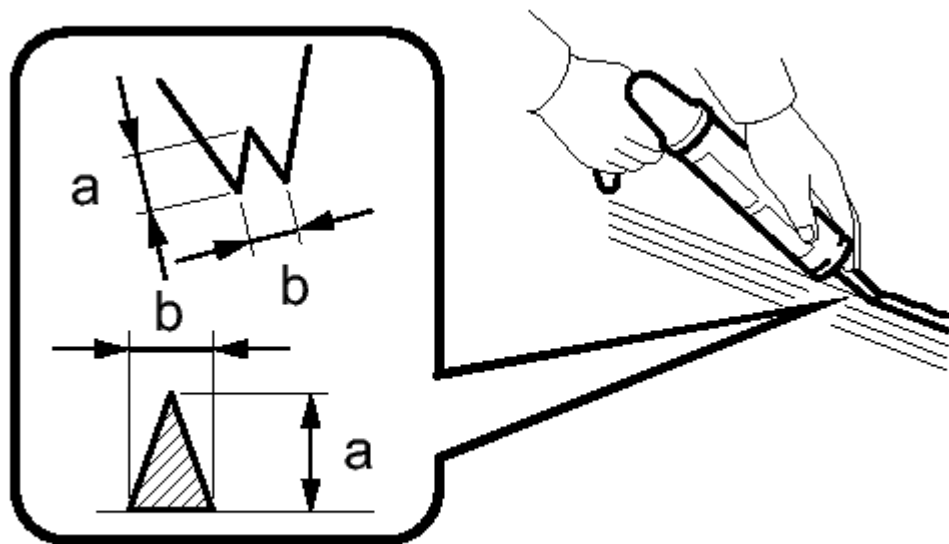
HINT:

- Apply Primer G onto the ceramic notches.
 - If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.
- d. Apply adhesive to the glass.

Adhesive

Toyota Genuine Windshield Glass Adhesive or equivalent

1. Cut off the tip of the cartridge nozzle as shown in the illustration.



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Fig. 47: Cutting Off Tip Of Cartridge Nozzle
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard Dimension

Item	Dimension
a	12.0 mm (0.472 in.)
b	8.0 mm (0.315 in.)

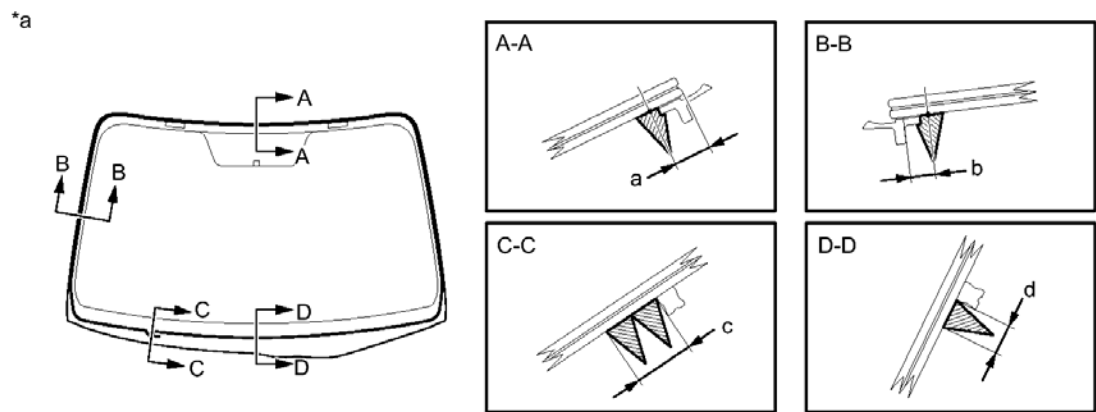
HINT:

After cutting off the tip, use all adhesive within the time described in the table below.

Usage Time Frame

Temperature	Usage Time Frame
35°C (95°F)	15 minutes
20°C (68°F)	1 hour and 40 minutes
5°C (41°F)	8 hours

2. Load the sealer gun with cartridge.
3. Apply adhesive to the windshield glass, as shown in the illustration.



P

Fig. 48: Applying Adhesive To Windshield Glass Using Sealer Gun
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Back	-
	Side	-

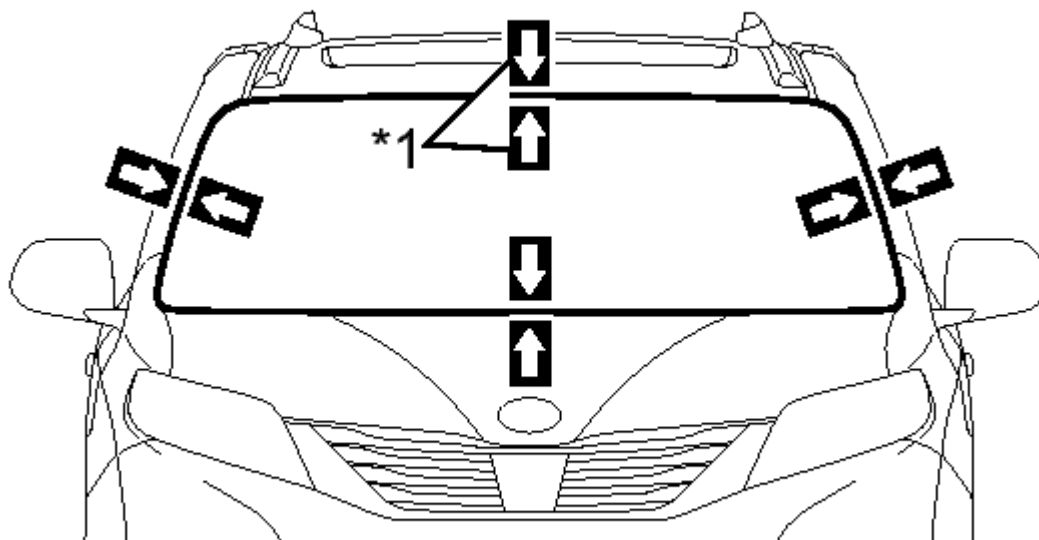
Standard Dimension

Item	Dimension
a	9.0 mm (0.354 in.)
b	6.0 mm (0.236 in.)
c	16.0 mm (0.630 in.)
d	8.0 mm (0.315 in.)

HINT:

Apply adhesive onto the ceramic notches.

- e. Install the windshield glass assembly.



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Fig. 49: Identifying Windshield Glass Matchmarks

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

TEXT IN ILLUSTRATION

*1 Matchmark

1. Using suction cups, position the windshield glass so that the matchmarks are aligned, and press it in gently along the rim.

NOTE:

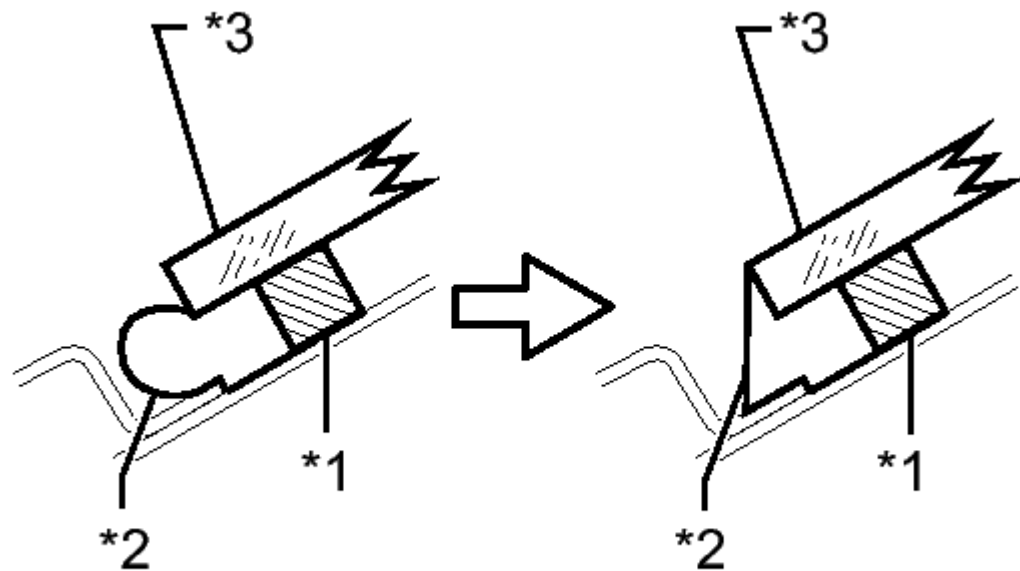
- Check that the windshield glass stoppers are attached to the vehicle body correctly.
- Check the clearance between the vehicle body and windshield glass.

2. Lightly press the front surface of the windshield glass to ensure that the windshield glass is securely fit to the vehicle body.

HINT:

Press the glass with a force of 98 N (10 kgf, 22 lbf) or more.

3. Using a scraper, remove any excess or protruding adhesive.



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Fig. 50: Identifying Adhesive Applying Area Onto Windshield Glass Rim
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Dam
*2	Adhesive
*3	Windshield Glass

HINT:

Apply adhesive onto the windshield glass rim.

4. Hold the windshield glass using protective tape until applied adhesive becomes hard.

NOTE: Do not drive the vehicle for the time described in the table below.

Minimum Time

Temperature	Minimum Time prior to Driving Vehicle
	1 hour and

35°C (95°F)	30 minutes
20°C (68°F)	5 hours
5°C (41°F)	24 hours

f. Connect the connector (w/ deicer).

6. INSPECT FOR LEAK AND REPAIR

- After the adhesive has hardened, apply water from the outside of the vehicle. Check that no water leaks into the cabin.
- If water leaks into the cabin, allow the water to dry and add adhesive.
- Remove the protective tape.

7. INSTALL ROOF HEADLINING ASSEMBLY

Refer to INSTALLATION

- Return the front section of the roof headlining assembly to the original position.

8. INSTALL RAIN SENSOR (w/ Rain Sensor)

Refer to INSTALLATION

9. INSTALL INNER REAR VIEW MIRROR ASSEMBLY

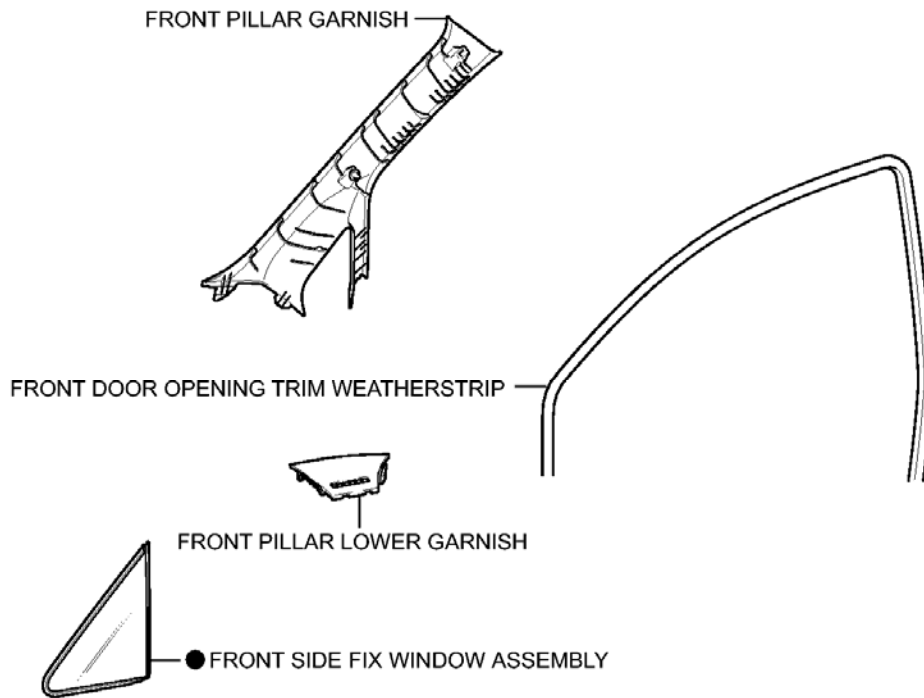
Refer to INSTALLATION

- INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY . Refer to INSTALLATION - Step 3
- INSTALL FRONT FENDER TO COWL SIDE SEAL LH . Refer to INSTALLATION - Step 4
- INSTALL FRONT FENDER TO COWL SIDE SEAL RH . Refer to INSTALLATION - Step 5
- INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH . Refer to INSTALLATION - Step 6
- INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH . Refer to INSTALLATION - Step 7
- INSTALL FRONT WIPER ARM HEAD CAP . Refer to INSTALLATION - Step 8

FRONT SIDE FIX WINDOW GLASS

COMPONENTS

ILLUSTRATION



● Non-reusable part

Fig. 51: Front Side Fix Window Glass Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

- Use the same procedure for the RH side and LH side.
- The procedure listed below is for the LH side.

1. **SEPARATE FRONT DOOR OPENING TRIM WEATHERSTRIP**
2. **REMOVE FRONT PILLAR GARNISH** . Refer to **REMOVAL - Step 9**
3. **REMOVE FRONT PILLAR LOWER GARNISH** . Refer to **REMOVAL - Step 11**
4. **REMOVE FRONT SIDE FIX WINDOW ASSEMBLY**

- a. Apply protective tape to the installation position of the front side fix window assembly on the vehicle body.

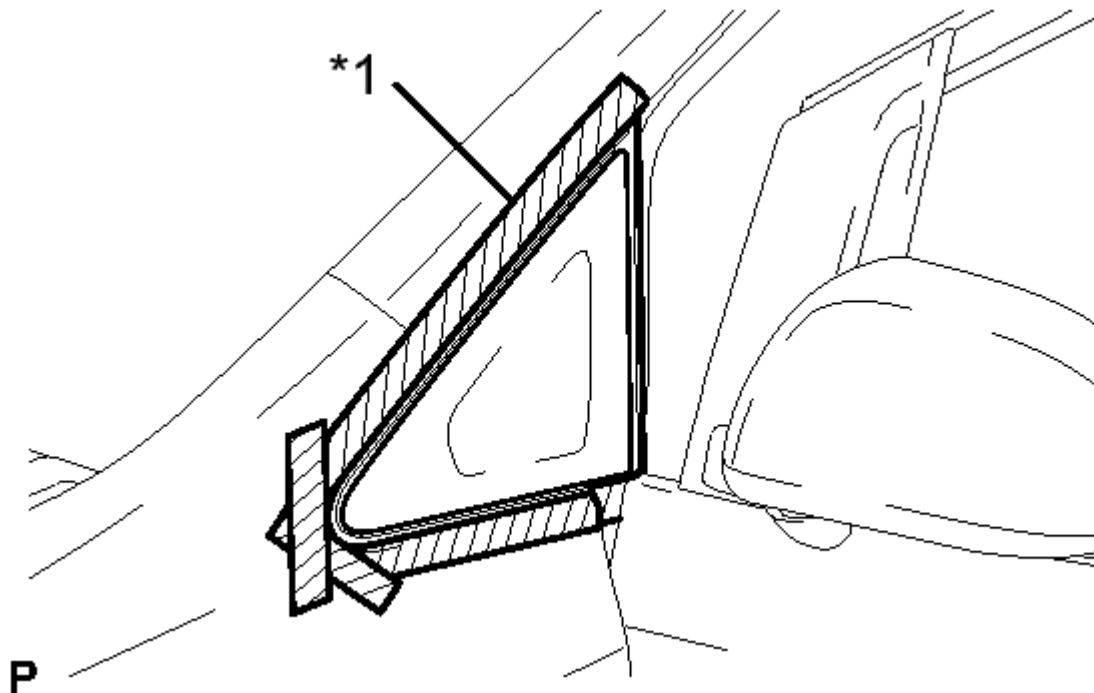


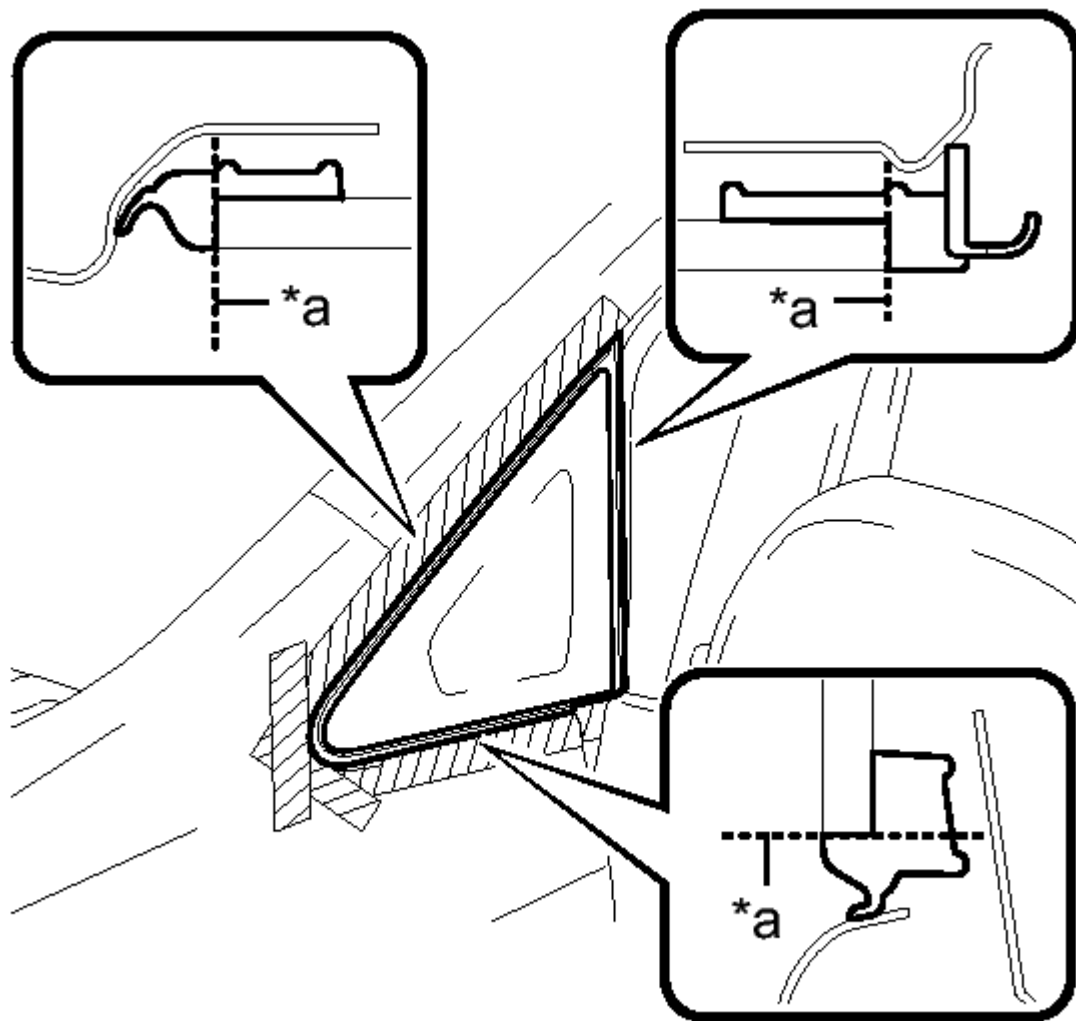
Fig. 52: Identifying Front Side Fix Window Assembly & Protective Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

- b. Using a knife, cut off the front side fix window assembly as shown in the illustration.

NOTE: **Make a partial cut in the moulding. Then pull and remove it by hand.**



P

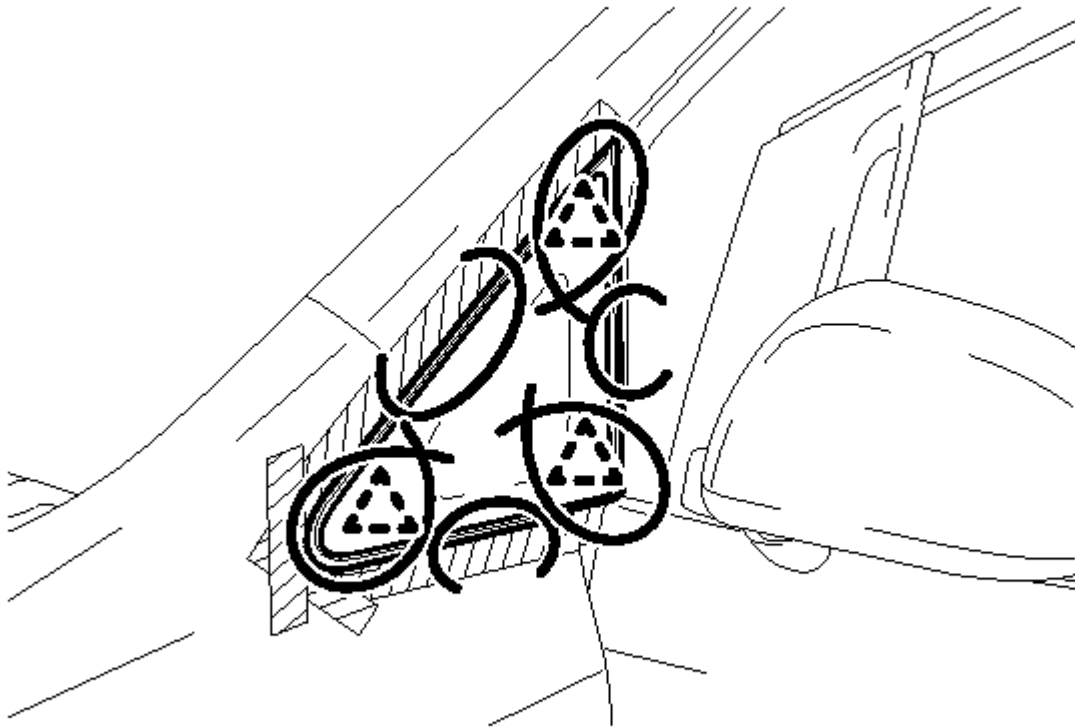
Fig. 53: Identifying Moulding Cut Off Areas

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

TEXT IN ILLUSTRATION

*a	Cut
----	-----

- c. Pass a piano wire between the interior vehicle body and glass from the interior as shown in the illustration.



P

Fig. 54: Identifying Piano Wire Pass Through Areas
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

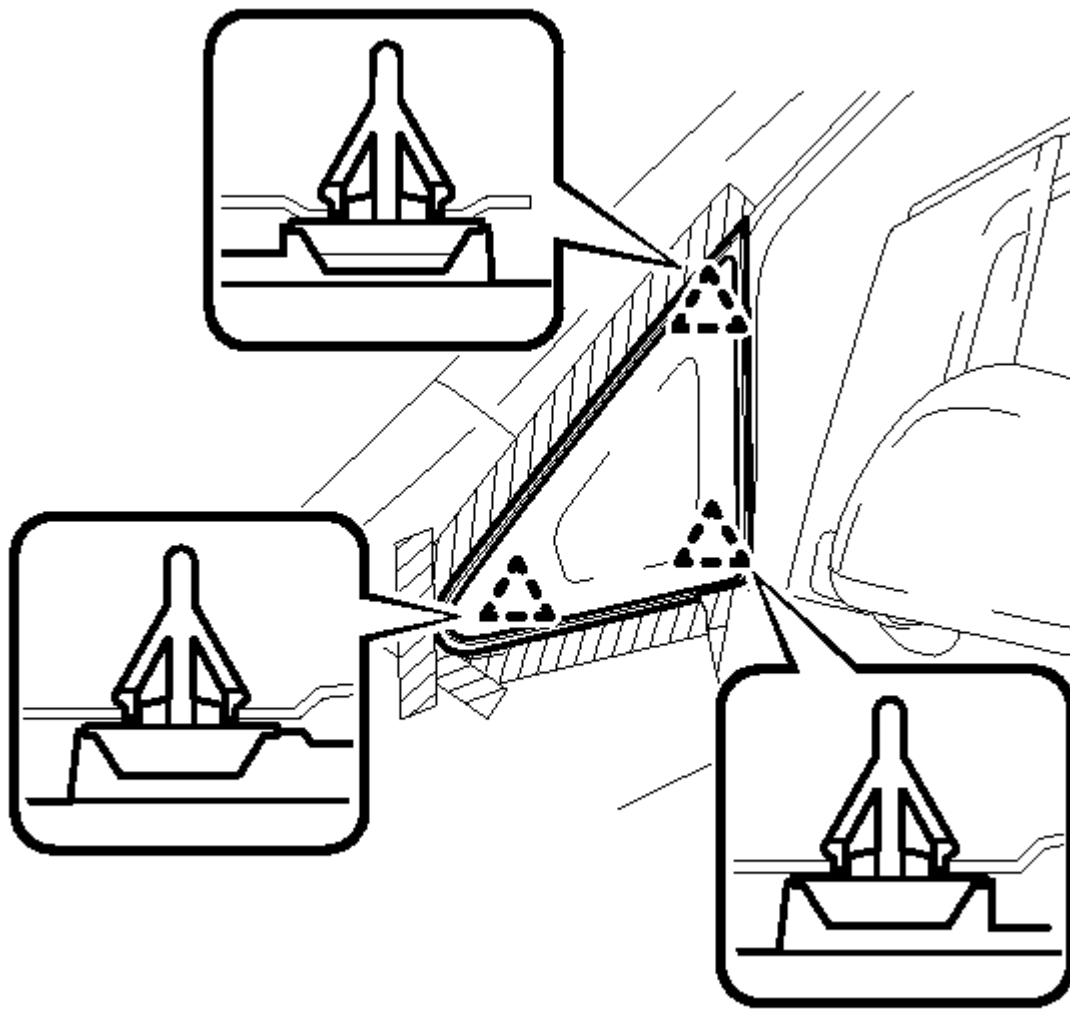
- d. Tie both wire ends to wooden blocks or similar objects that can serve as handles.

NOTE: When separating the front side fix window assembly from the vehicle, be careful not to damage the paint or interior and exterior ornaments.

- e. Cut off the adhesive by pulling the piano wire around the front side fix window assembly.

NOTE: Leave as much adhesive on the vehicle body as possible when cutting through the adhesive.

- f. Disengage the 3 clips.



P

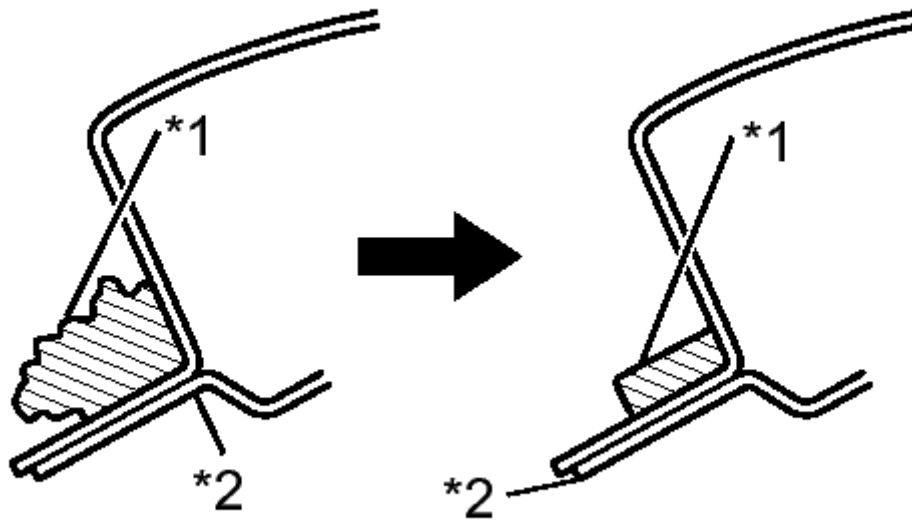
Fig. 55: Identifying Front Side Fix Window Assembly Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- g. Using suction cups, remove the glass.

NOTE: **Be careful not to drop the glass.**

5. CLEAN VEHICLE BODY

- a. Clean and shape the contact surfaces of the vehicle body.



0

Fig. 56: Cleaning Vehicle Body Contact Surfaces
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Adhesive
*2	Vehicle Body

1. Using a knife, cut away excess adhesive on the contact surfaces of the vehicle body as shown in the illustration.

NOTE: Be careful not to damage the vehicle body.

HINT:

Leave as much adhesive on the vehicle body as possible.

- b. Clean the contact surfaces of the vehicle body with a piece of cloth saturated with cleaner.

HINT:

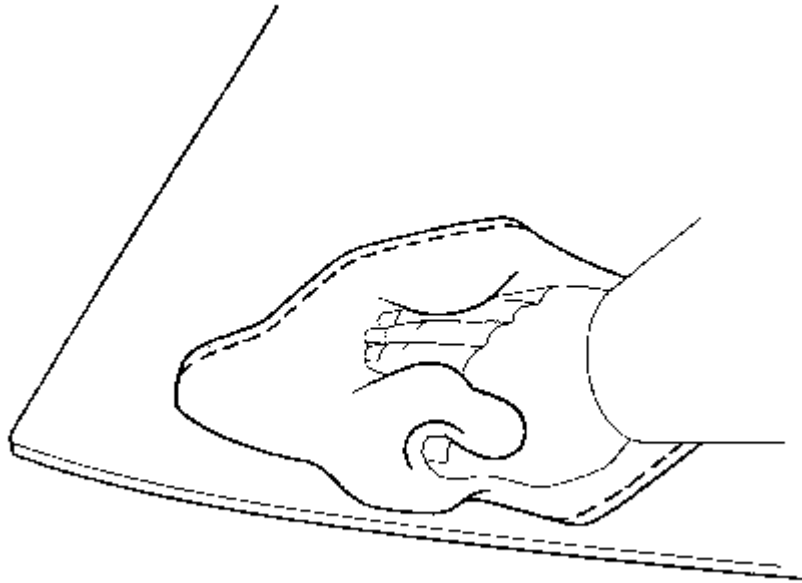
Even if all the adhesive has been removed, clean the vehicle body.

INSTALLATION

INSTALLATION

1. CLEAN FRONT SIDE FIX WINDOW ASSEMBLY

- a. Clean the outer edges of a new front side fix window assembly with a non-residue solvent.



BO4421

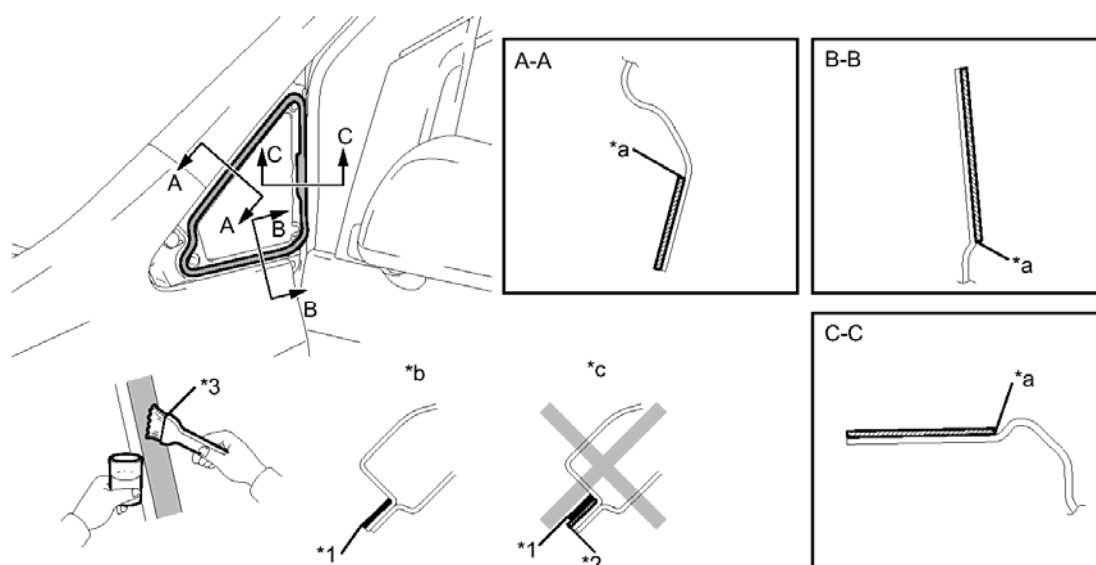
Fig. 57: Cleaning Outer Circumference Of Glass
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- Do not touch the glass surface after cleaning it.
- Be careful not to damage the glass or clips.

2. INSTALL FRONT SIDE FIX WINDOW ASSEMBLY

- a. Using a brush or a sponge, apply Primer M to the exposed part of the vehicle body.



P

Fig. 58: Installing Front Side Fix Window Assembly With Primer M Using Brush Or Sponge
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

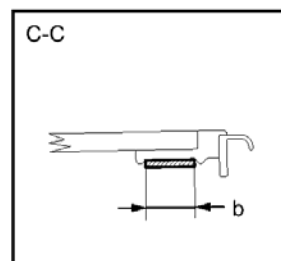
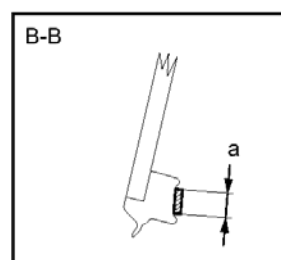
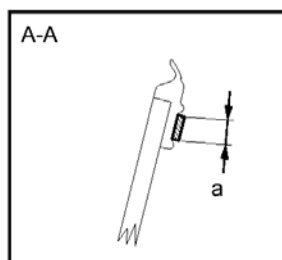
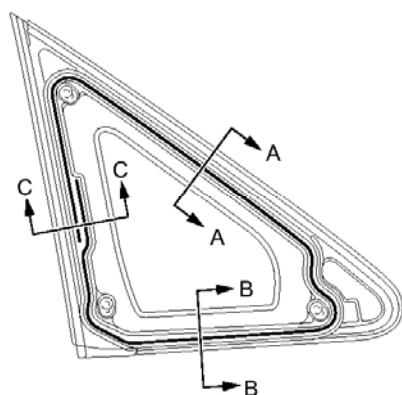
*1	Primer M	*2	Adhesive
*3	Brush	-	-
*a	Edge of Curved Surface	*b	CORRECT
*c	WRONG	-	-

NOTE:

- Do not coat the adhesive with Primer M.
- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

- Using a brush or a sponge, apply Primer G to the contact surface of the front side fix window assembly.

*a



P

Fig. 59: Identifying Front Side Fix Window Assembly Primer G Applying Areas
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Back	-
	Side	-

Standard Dimension

Area	Dimension
a	6.0 mm (0.236 in.)
b	12.0 mm (0.472 in.)

HINT:

If applied to an area other than that specified, wipe off the primer with a non-residue solvent before it dries.

NOTE:

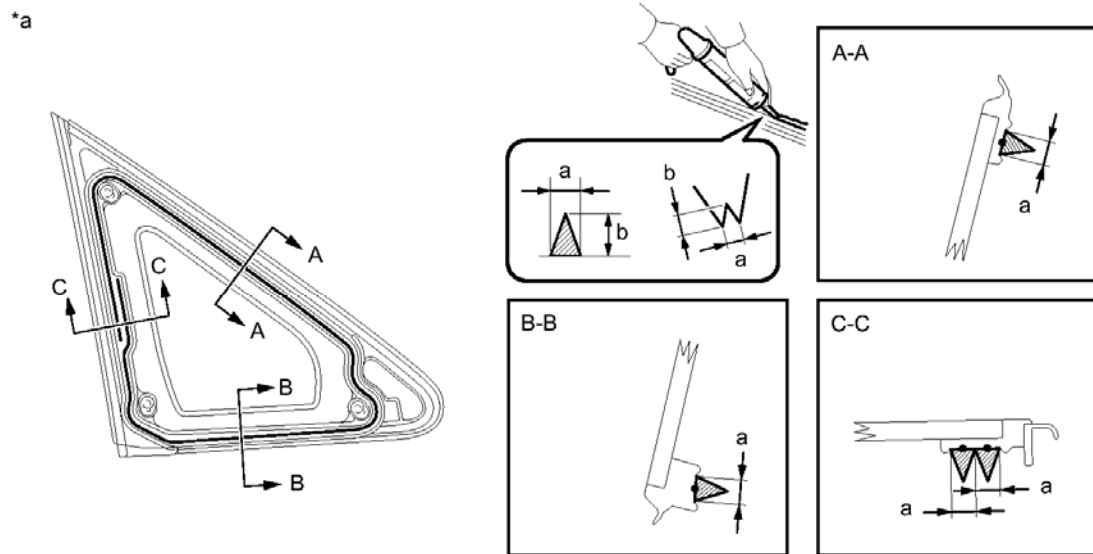
- To prevent the glass from breaking at low temperatures, ensure that no primer adheres to the contact surface between the moulding and glass during application.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.
- Do not apply too much primer.

c. Apply adhesive to the front side fix window assembly.

Adhesive

Toyota Genuine Windshield Glass Adhesive or equivalent

1. Cut off the tip of the cartridge nozzle as shown in the illustration.



P

Fig. 60: Identifying Front Side Window Assembly Adhesive Applying Areas
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

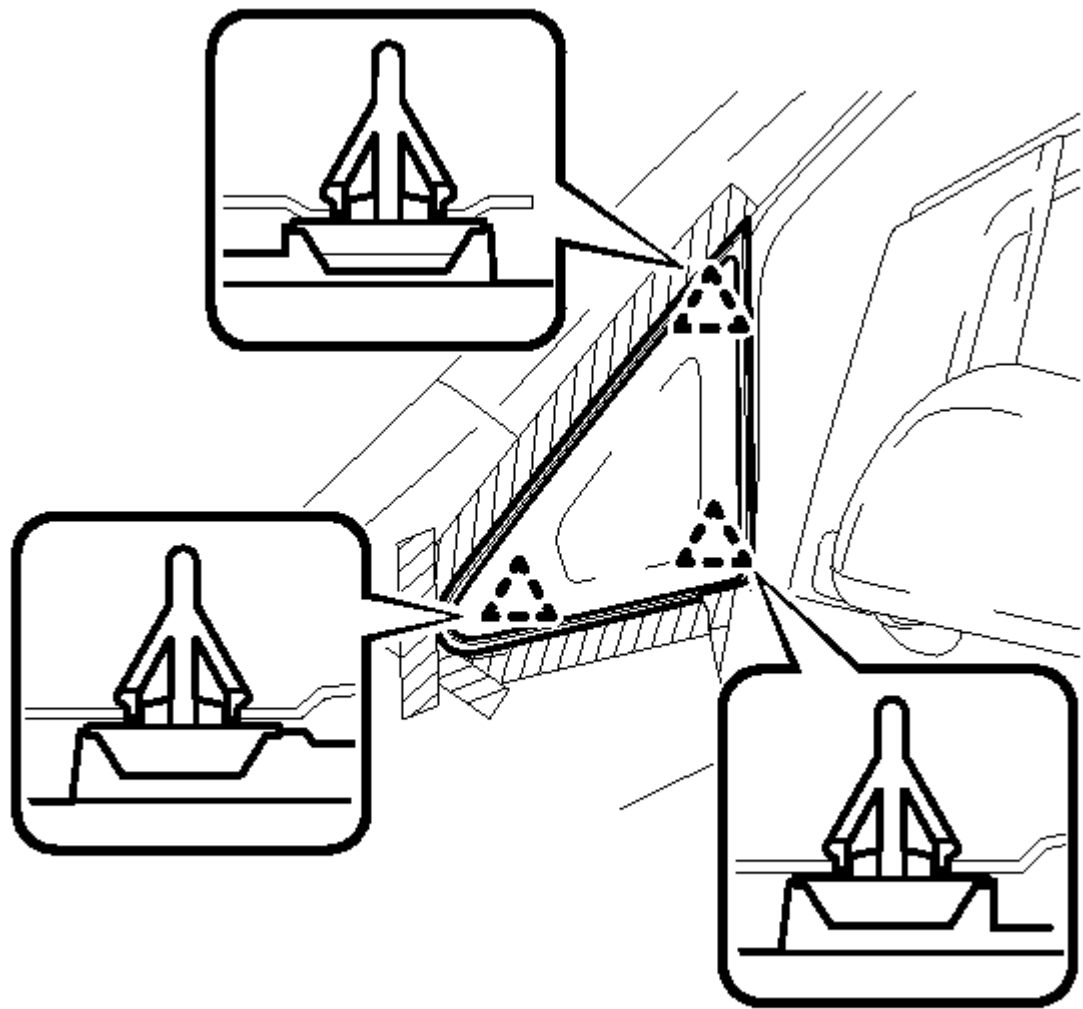
TEXT IN ILLUSTRATION

*a	Back	-
	Side	-

Standard Dimension

Area	Dimension
a	6.0 mm (0.236 in.)
b	8.0 mm (0.315 in.)

2. Load the sealer gun with cartridge.
 3. Apply adhesive to the front side fix window assembly as shown in the illustration.
- d. Install the front side fix window assembly to the vehicle body.
1. Engage the 3 clips to install the front side fix window assembly.



P

Fig. 61: Identifying Front Side Fix Window Assembly Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. Hold the front side fix window assembly in place securely with protective tape or equivalent until the adhesive hardens.

NOTE:

- Allow the primer to dry for 3 minutes or more.
- Check that the clips are attached to the body correctly.
- Check the clearance between the body and glass.

3. Lightly press the outer surface of the glass to ensure that the glass is securely fit to the vehicle body.

HINT:

Press the glass with a force of 98 N (10 kgf, 22 lbf) or more.

4. Using a scraper, remove any excess or protruding adhesive.

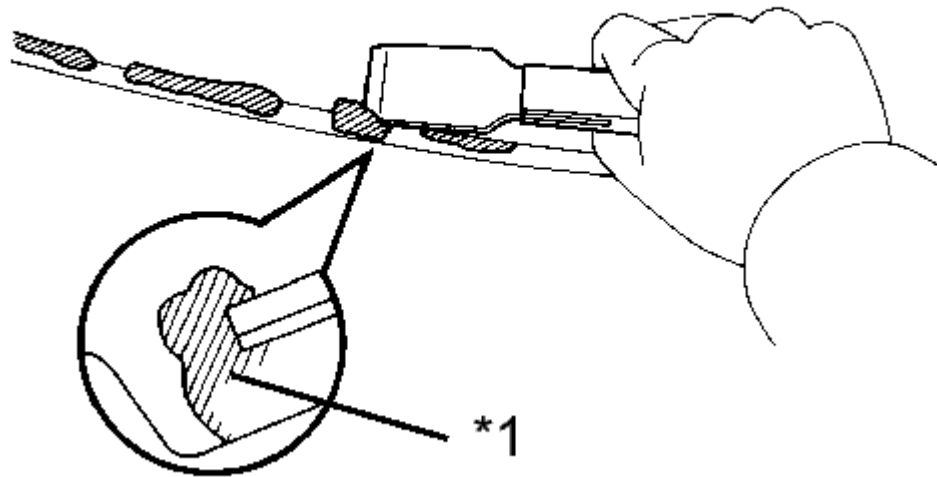


Fig. 62: Removing Excess Or Protruding Adhesive Using Scraper
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1 Adhesive

HINT:

Apply adhesive onto the glass rim.

NOTE: Do not drive the vehicle within the time described in the table below.

Minimum Time

Temperature	Minimum Time prior to Driving Vehicle
35°C (95°F)	1 hour and 30 minutes

20°C (68°F)	5 hours
5°C (41°F)	24 hours

3. INSPECT FOR LEAK AND REPAIR

- After the adhesive has hardened, apply water from the outside of the vehicle. Check that no water leaks into the cabin.
- If water leaks into the cabin, allow the water to dry and add adhesive.
- Remove the protective tape.

4. INSTALL FRONT PILLAR LOWER GARNISH . Refer to INSTALLATION - Step 29

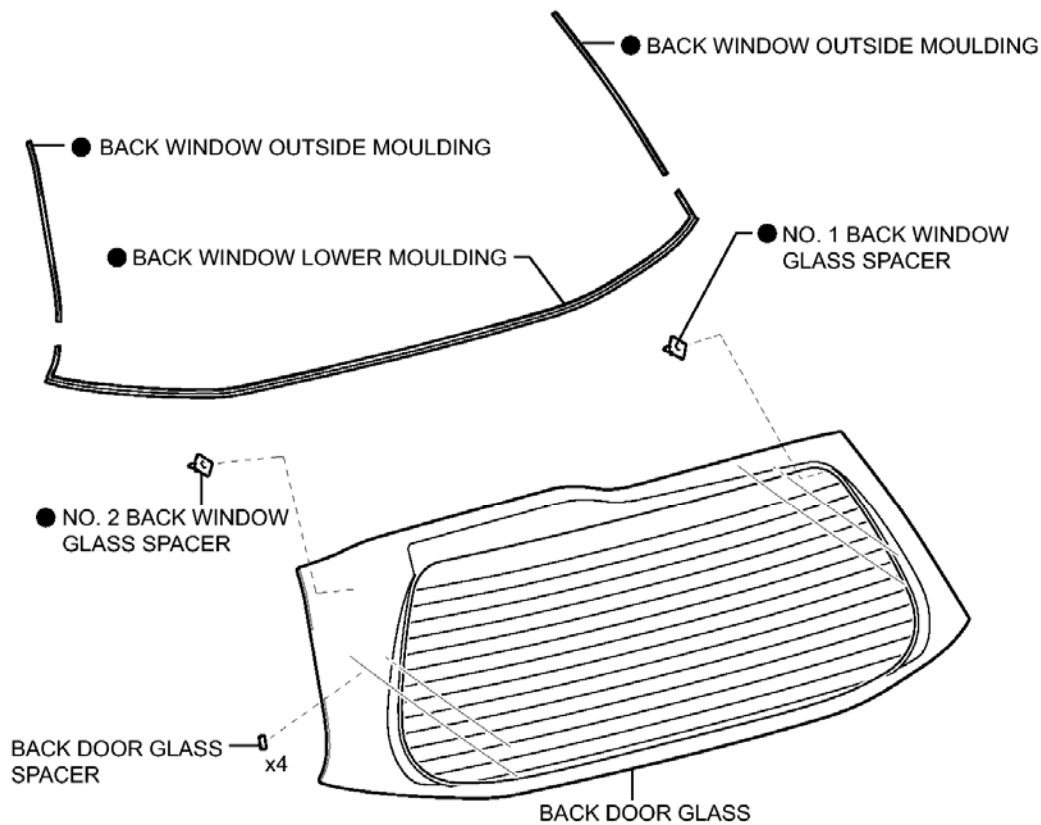
5. INSTALL FRONT PILLAR GARNISH . Refer to INSTALLATION - Step 31

6. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP

BACK DOOR GLASS

COMPONENTS

ILLUSTRATION



P

Fig. 63: Back Door Glass Replacement Components
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

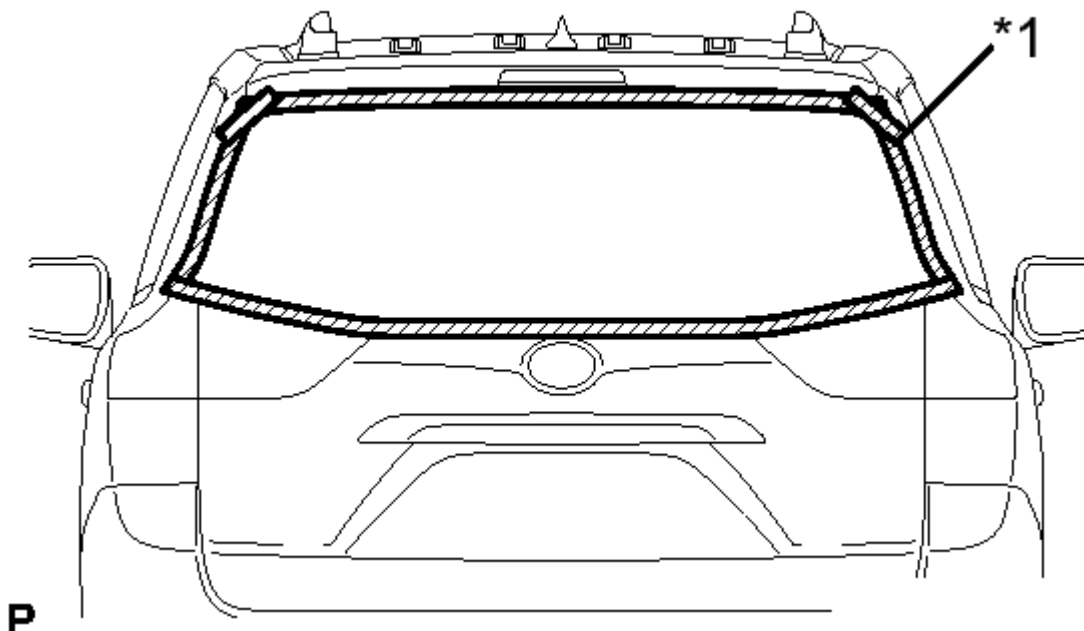
REMOVAL

1. REMOVE REAR WIPER MOTOR AND BRACKET ASSEMBLY

Refer to **REMOVAL**

2. REMOVE BACK DOOR GLASS

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



P

Fig. 64: Identifying Back Door Glass & Protective Tape
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

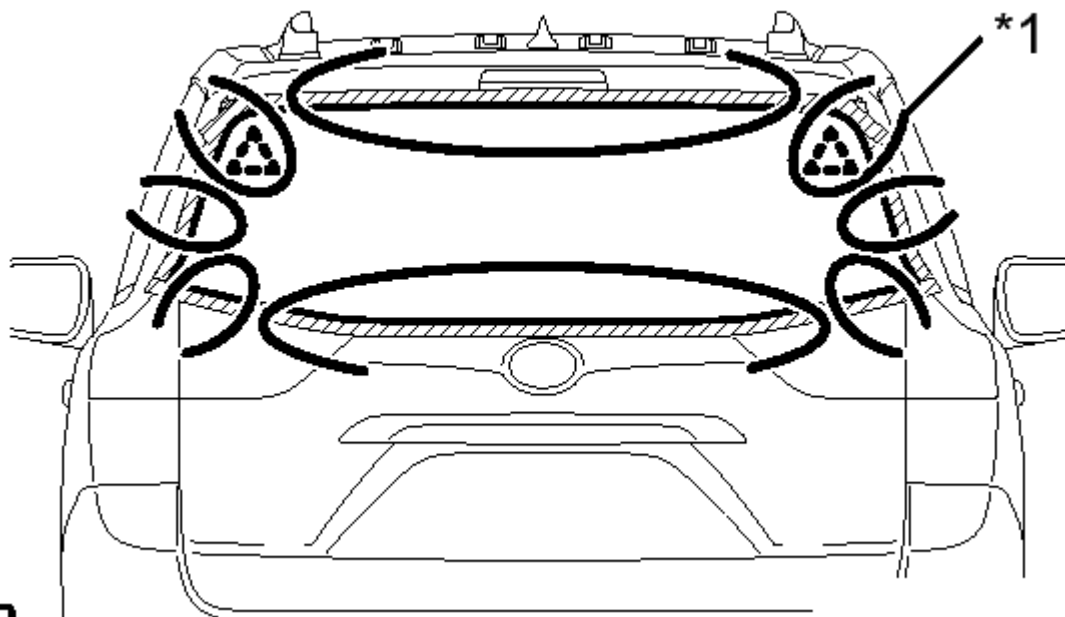
*1	Protective Tape
----	--------------------

NOTE: When separating the back door glass from the vehicle, be careful not to damage the paint or interior and exterior ornaments.

- c. Pass a piano wire between the vehicle body and back door glass from the interior, as shown in the illustration.

HINT:

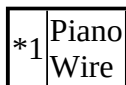
Do not allow the piano wire to interfere with the clips.



P

Fig. 65: Identifying Piano Wire Pass Through Areas & Clips
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

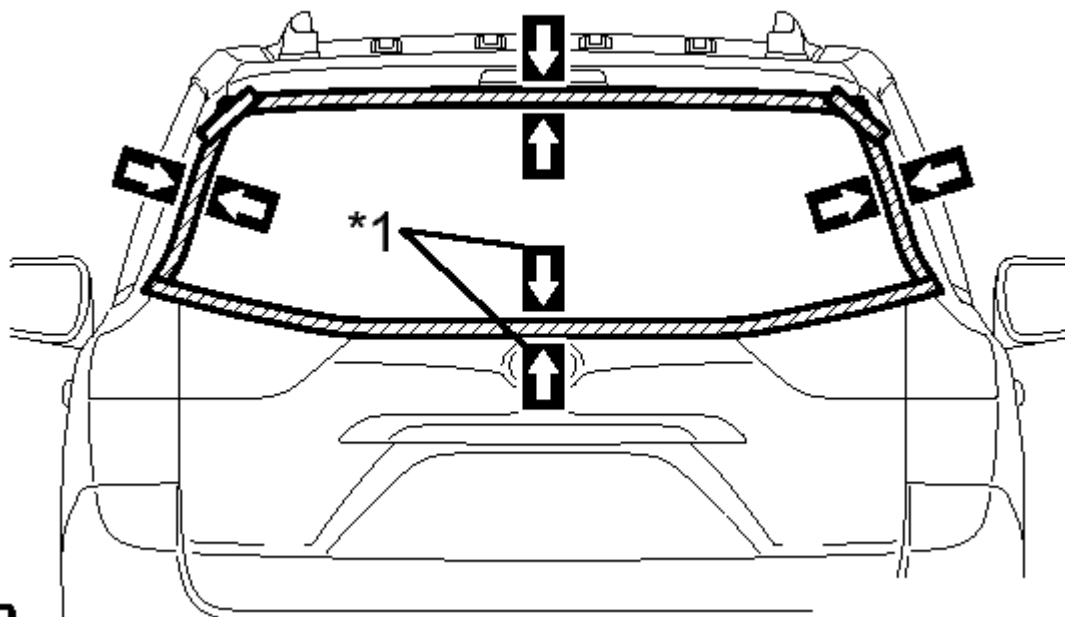
TEXT IN ILLUSTRATION



- d. Tie both wire ends to wooden blocks or similar objects that can serve as handles.
- e. Cut off the adhesive by pulling the piano wire around the back door glass.

NOTE: **Leave as much adhesive on the vehicle body as possible when removing the back door glass.**

- f. Place matchmarks on the back door glass and vehicle body on the locations indicated in the illustration.



P

Fig. 66: Identifying Back Door Glass Matchmarks

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

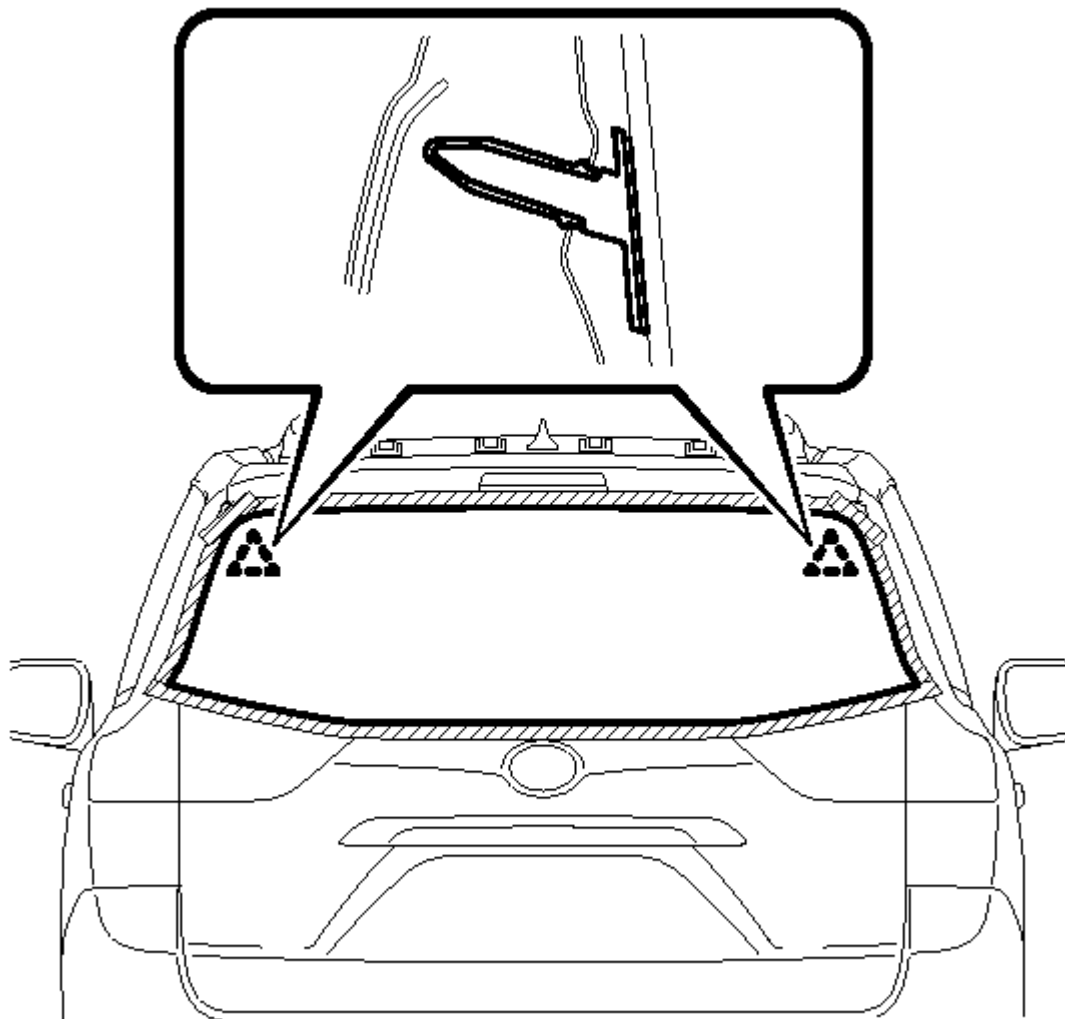
TEXT IN ILLUSTRATION

*1	Matchmark
----	-----------

HINT:

Matchmarks are not necessary if the back door glass is not going to be reused.

- g. Using suction cups, disengage the 2 clips and remove the back door glass.



P

Fig. 67: Identifying Back Door Glass & Clips

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

3. REMOVE BACK WINDOW LOWER MOULDING

- a. Using a scraper, remove the back window lower moulding and adhesive from the back door glass.

NOTE:

- Be careful not to damage the back door glass.
- Be sure to replace the back window lower moulding with a new one.

4. REMOVE BACK WINDOW OUTSIDE MOULDING

- a. Using a scraper, remove the back window outside moulding and adhesive from the back door glass.

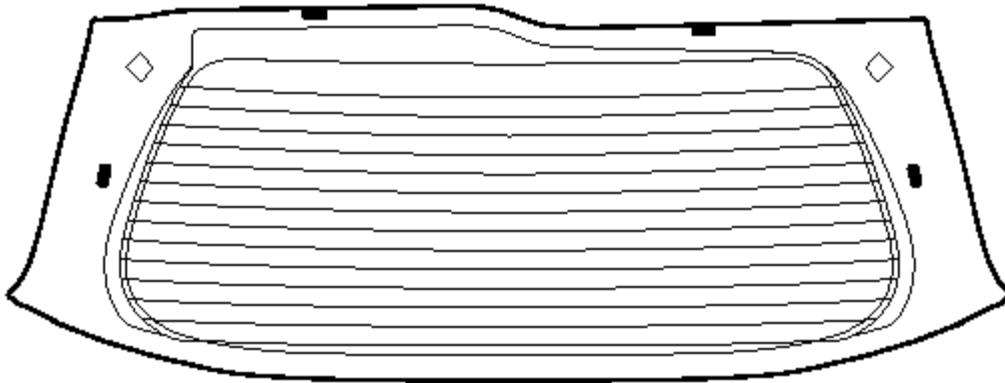
NOTE:

- Be careful not to damage the back door glass.

- Be sure to replace the back window outside moulding with a new one.

5. REMOVE BACK DOOR GLASS SPACER

- a. Remove the 4 back door glass spacers.



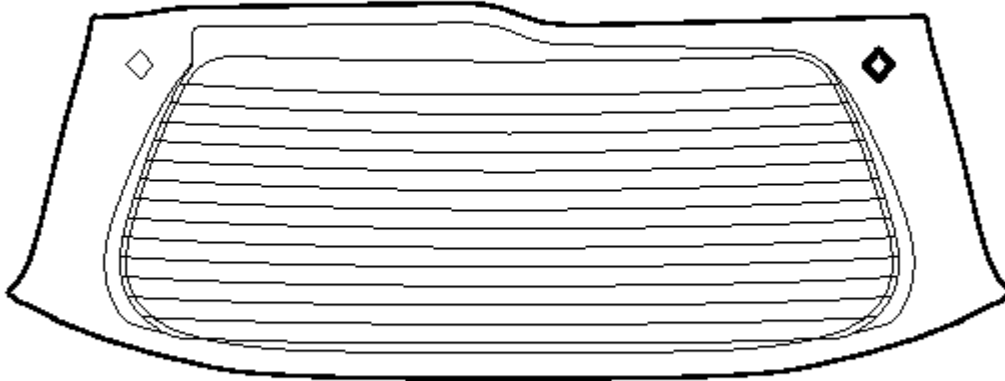
P

Fig. 68: Identifying Back Door Glass Spacers

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

6. REMOVE NO. 2 BACK WINDOW GLASS SPACER

- a. Using a scraper, remove the No. 2 back window glass spacer.



P

Fig. 69: Identifying No. 2 Back Window Glass Spacer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- Be careful not to damage the back door glass.
- Be sure to replace the No. 2 back window glass spacer with a new one.

7. REMOVE NO. 1 BACK WINDOW GLASS SPACER

HINT:

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

8. CLEAN BACK DOOR GLASS

- a. Clean the outer edge of the back door glass with a non-residue solvent.

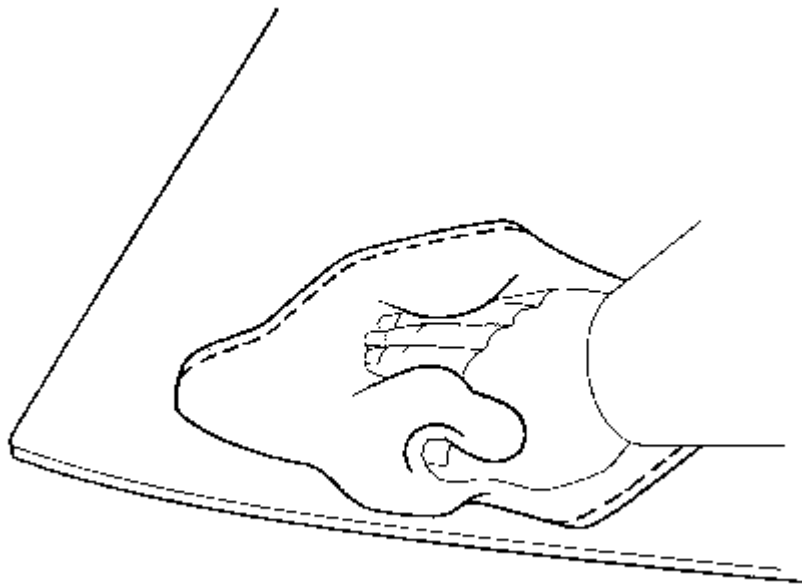


Fig. 70: Cleaning Back Door Glass

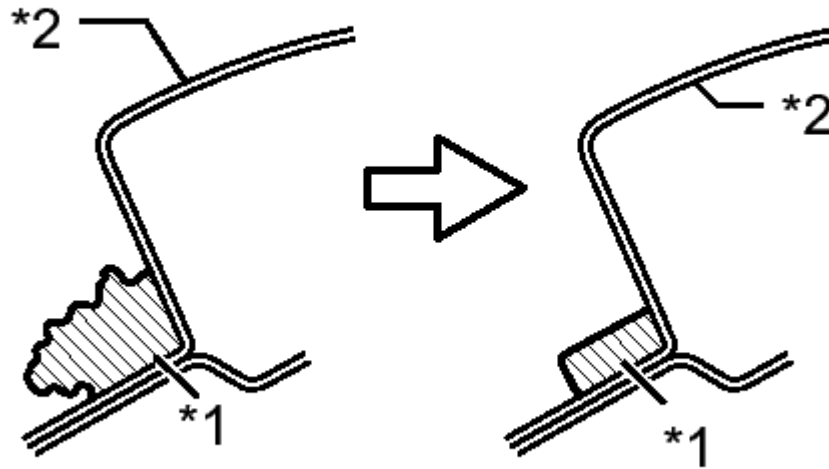
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE:

- Do not touch the back door glass surface after cleaning it.
- Be careful not to damage the glass.
- Even if using a new back door glass, clean the back door glass with a non-residue solvent.

9. CLEAN VEHICLE BODY

- a. Using a scraper, remove the moulding and adhesive from the back door glass.



P

Fig. 71: Identifying Contact Surfaces Of Vehicle Body
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Adhesive
*2	Vehicle Body

- b. Clean and shape the contact surfaces of the vehicle body.
 1. Using a knife, cut away excess adhesive on the contact surfaces of the vehicle body, as shown in the illustration.

NOTE: **Be careful not to damage the vehicle body.**

HINT:

Leave as much adhesive on the vehicle body as possible.

2. Clean the contact surfaces of the vehicle body with a piece of cloth saturated with cleaner.

HINT:

Even if all the adhesive has been removed, clean the vehicle body.

INSTALLATION

INSTALLATION

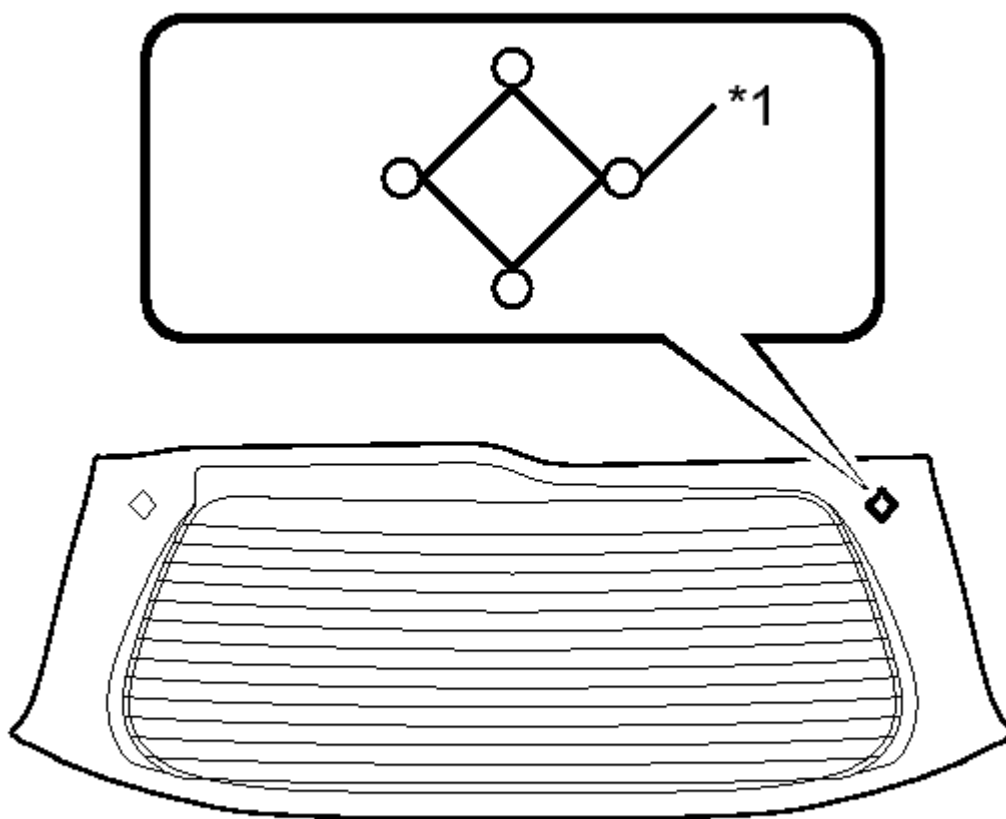
1. INSTALL NO. 2 BACK WINDOW GLASS SPACER

- a. Apply Primer G to the installation part of the No. 2 back window glass spacer.

HINT:

If primer is applied to an area that is not specified, wipe off the primer with a non-residue solvent before it dries.

- b. Install a new No. 2 back window glass spacer onto the back door glass, as shown in the illustration.



P

Fig. 72: Identifying No. 2 Back Window Glass Spacer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

—

*1	Marking for Spacer Installation
----	---------------------------------------

NOTE:

- RH and LH spacers are different parts.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.
- Do not apply too much primer.

2. INSTALL NO. 1 BACK WINDOW GLASS SPACER

HINT:

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

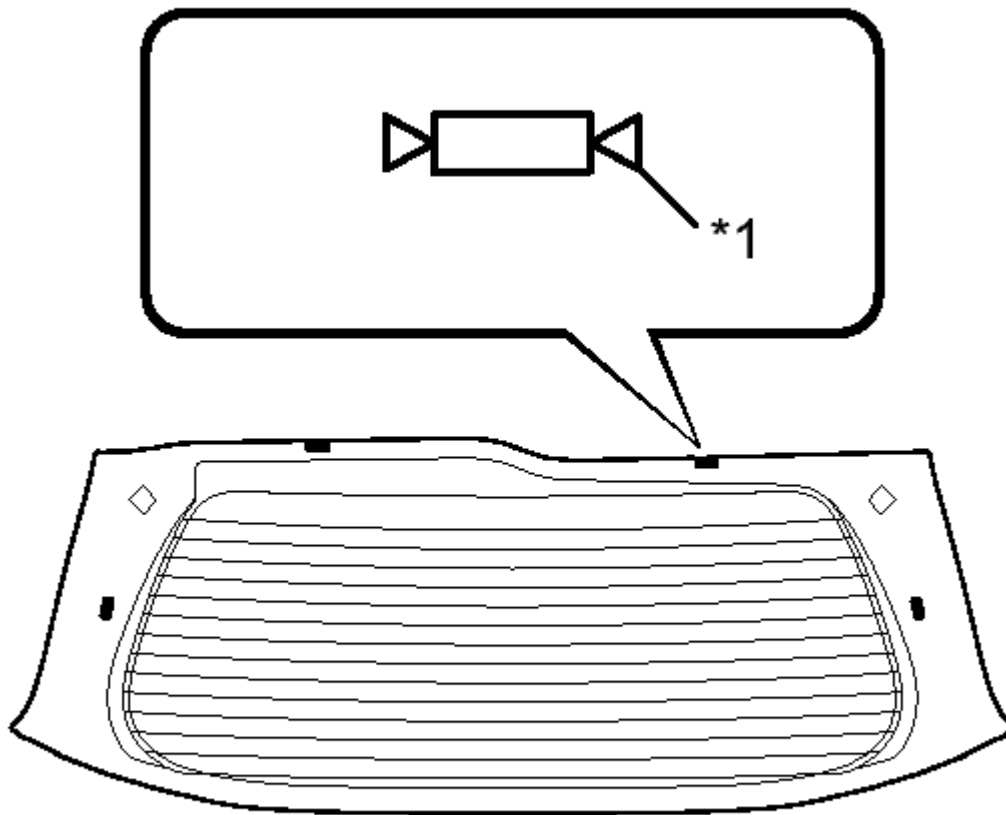
3. INSTALL BACK DOOR GLASS SPACER

- a. Apply Primer G to the installation part of the back window glass spacer.

HINT:

If primer is applied to an area that is not specified, wipe off the primer with a non-residue solvent before it dries.

- b. Install 4 new back door glass spacers onto the back door glass, as shown in the illustration.



P

Fig. 73: Identifying Back Door Glass Spacer

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

TEXT IN ILLUSTRATION

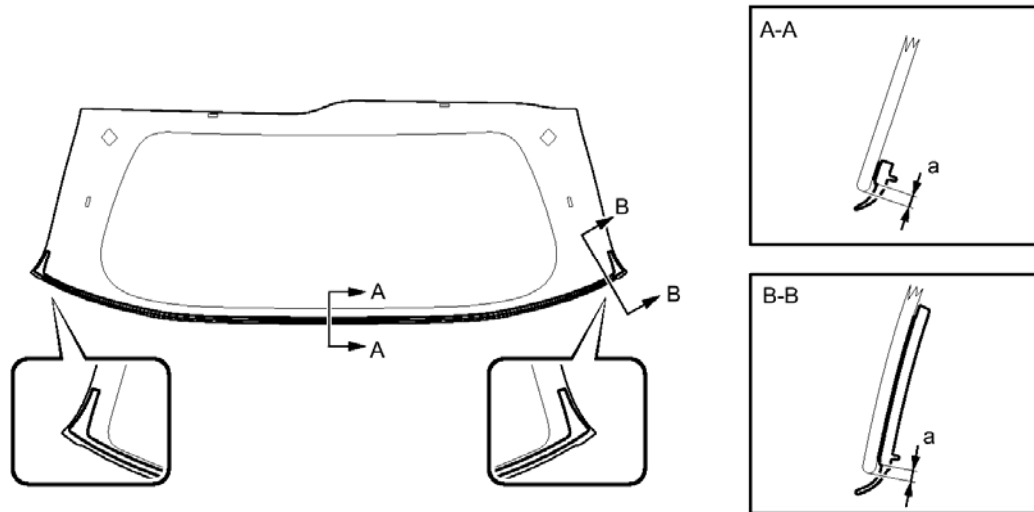
	Marking
*1	for Spacer
	Installation

NOTE:

- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.
- Do not apply too much primer.

4. INSTALL BACK WINDOW LOWER MOULDING

- a. Apply primer to the installation part of the back window lower moulding.



P

Fig. 74: Identifying Back Window Lower Moulding Primer Applying Areas
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard Dimension

Area	Dimension
a	3.0 mm (0.118 in.)

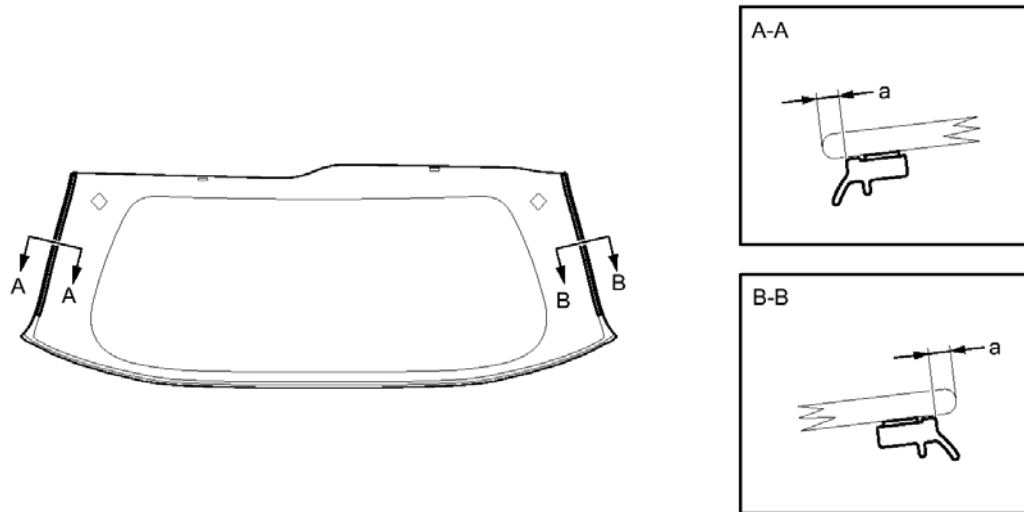
NOTE: Do not apply too much primer.

- b. Install a new back window lower moulding onto the back door glass, as shown in the illustration.

NOTE: Allow the primer to dry for 3 minutes or more.

5. INSTALL BACK WINDOW OUTSIDE MOULDING

- a. Apply primer to the installation part of the back window outside moulding.



P

Fig. 75: Identifying Back Window Outside Moulding Primer Applying Areas
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard Dimension

Area	Dimension
a	3.3 mm (0.130 in.)

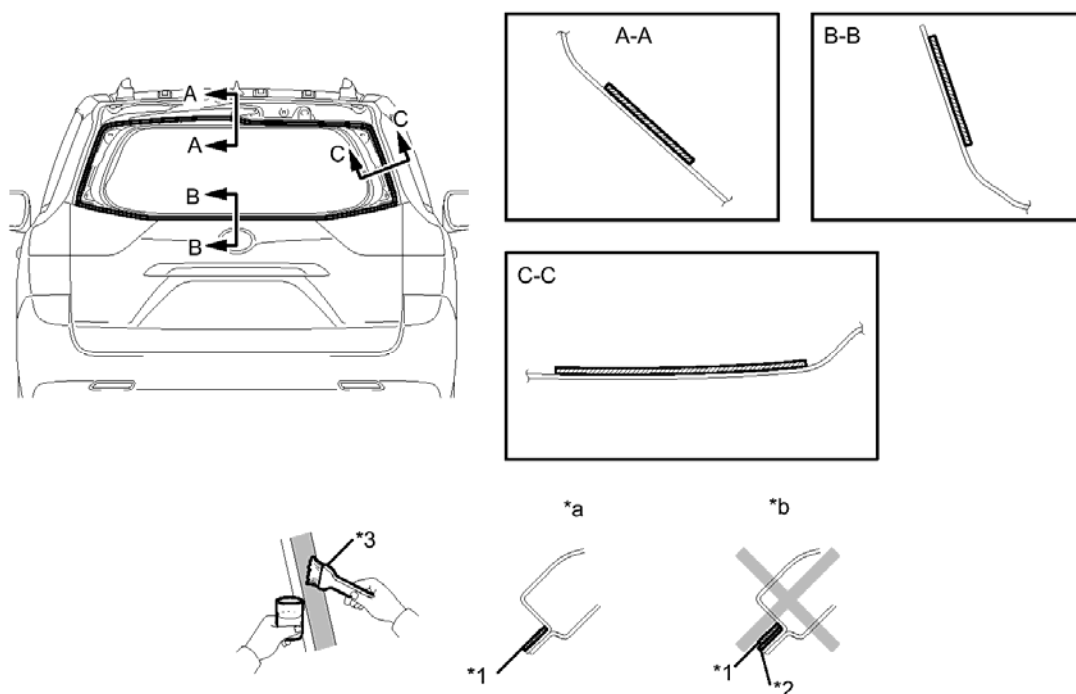
NOTE: Do not apply too much primer.

- b. Install a new back window outside moulding onto the back door glass, as shown in the illustration.

NOTE: Allow the primer to dry for 3 minutes or more.

6. INSTALL BACK DOOR GLASS

- a. Using a brush, coat the installation surface on the vehicle body with Primer M.



P

Fig. 76: Identifying Back Door Glass Installation Surface With Primer M
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1 Primer M	*2 Adhesive
*3 Brush	-
*a CORRECT	*b WRONG

NOTE:

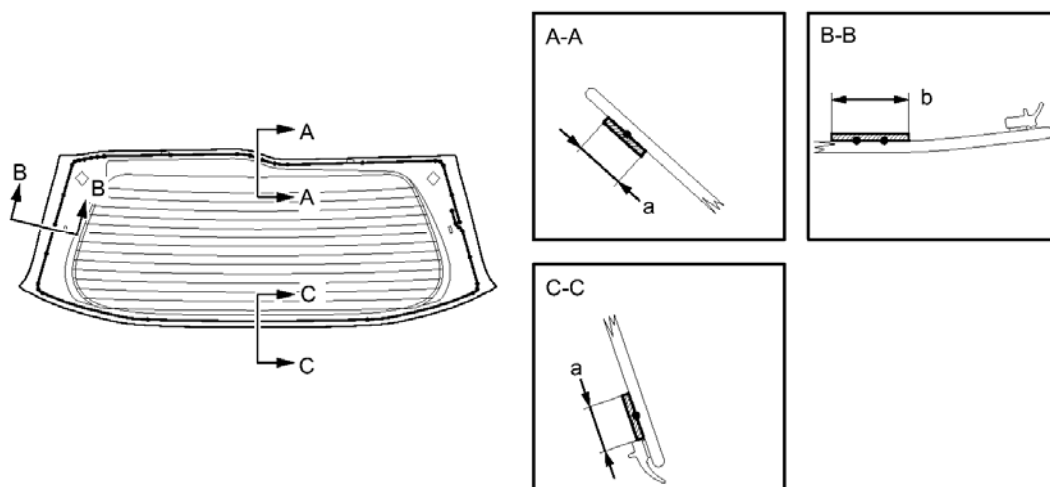
- Do not coat the adhesive with Primer M.
- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

HINT:

If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.

- Using a brush or a sponge, coat the application area of the adhesive with Primer G.

*a



P

Fig. 77: Identifying Back Door Glass Application Area With Primer G
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	Back	-
	Side	-

Standard Dimension

Item	Dimension
a	14.0 mm (0.551 in.)
b	22.0 mm (0.866 in.)

NOTE:

- Do not apply too much primer.
- Allow the primer to dry for 3 minutes or more.
- Throw away any leftover primer.

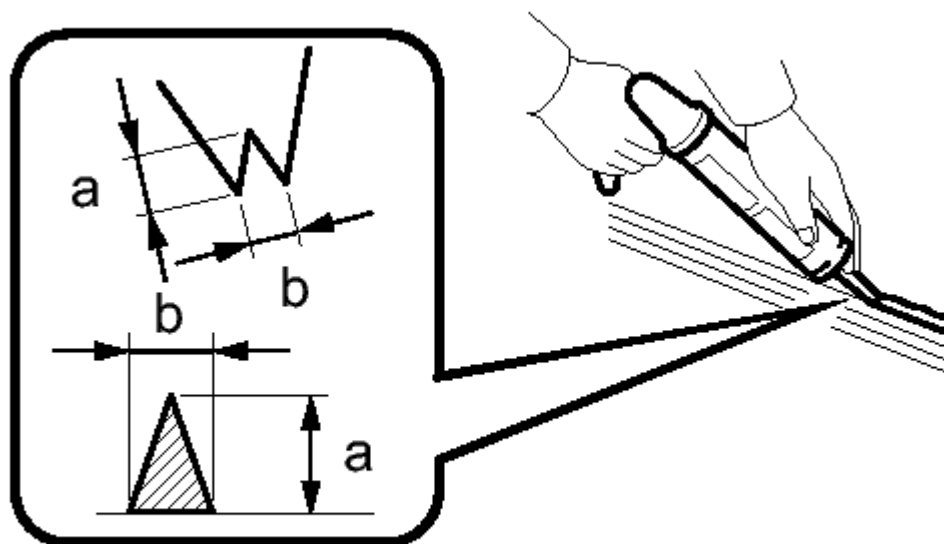
HINT:

- Apply Primer G onto the ceramic notches.
 - If an area other than that specified is coated by accident, wipe off the primer with a clean piece of cloth before it dries.
- c. Apply adhesive to the back door glass.

Adhesive

Toyota Genuine Windshield Glass Adhesive or equivalent

1. Cut off the tip of the cartridge nozzle as shown in the illustration.



P

Fig. 78: Cutting Off Tip Of Cartridge Nozzle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard Dimension

Item	Dimension
a	12.0 mm (0.472 in.)
b	8.0 mm (0.315 in.)

HINT:

After cutting off the tip, use all the adhesive within the time described in the table below.

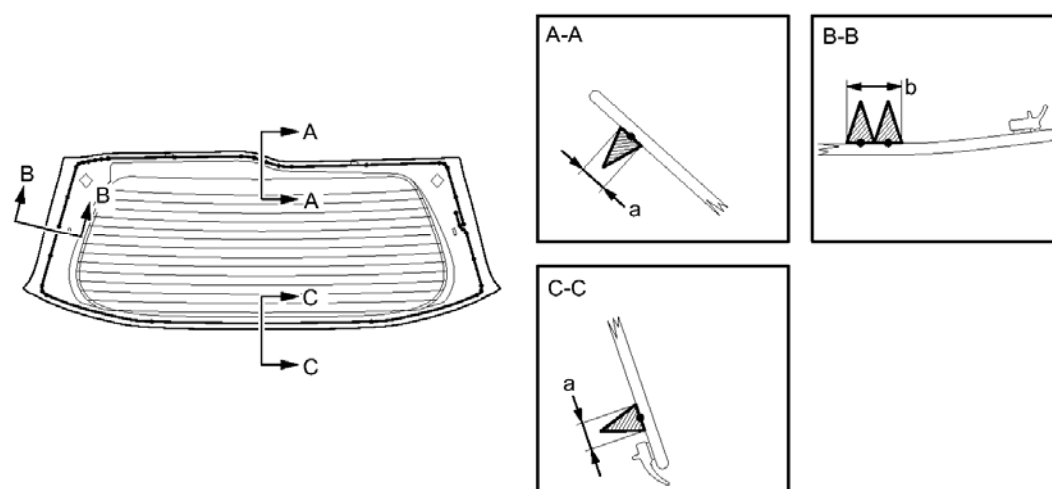
Usage Time Frame

Temperature	Usage Time Frame
35°C (95°F)	15 minutes

20°C (68°F)	1 hour and 40 minutes
5°C (41°F)	8 hours

2. Load the sealer gun with cartridge.
3. Apply adhesive to the back door glass as shown in the illustration.

*a



P

Fig. 79: Identifying Back Door Glass Adhesive Applying Areas
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

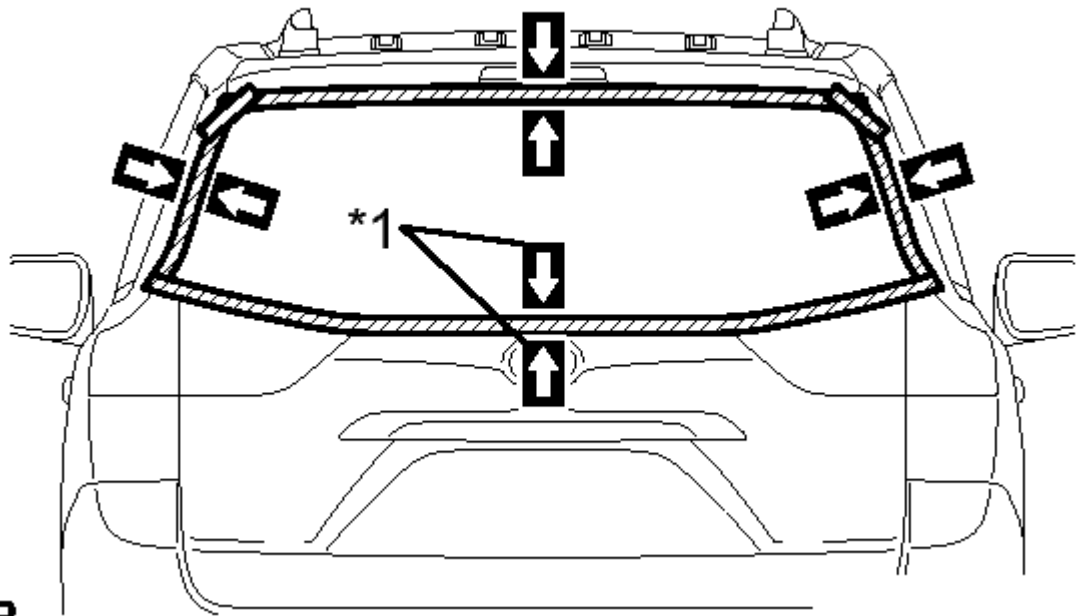
TEXT IN ILLUSTRATION

*a	Back	-
	Side	-

Standard Dimension

Item	Dimension
a	8.0 mm (0.315 in.)
b	16.0 mm (0.630 in.)

- d. Install the back door glass.
 1. Position the back door glass so that the matchmarks are aligned, and press it in gently along the rim (when glass without a clip is used).



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Fig. 80: Identifying Back Door Glass Matchmarks
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

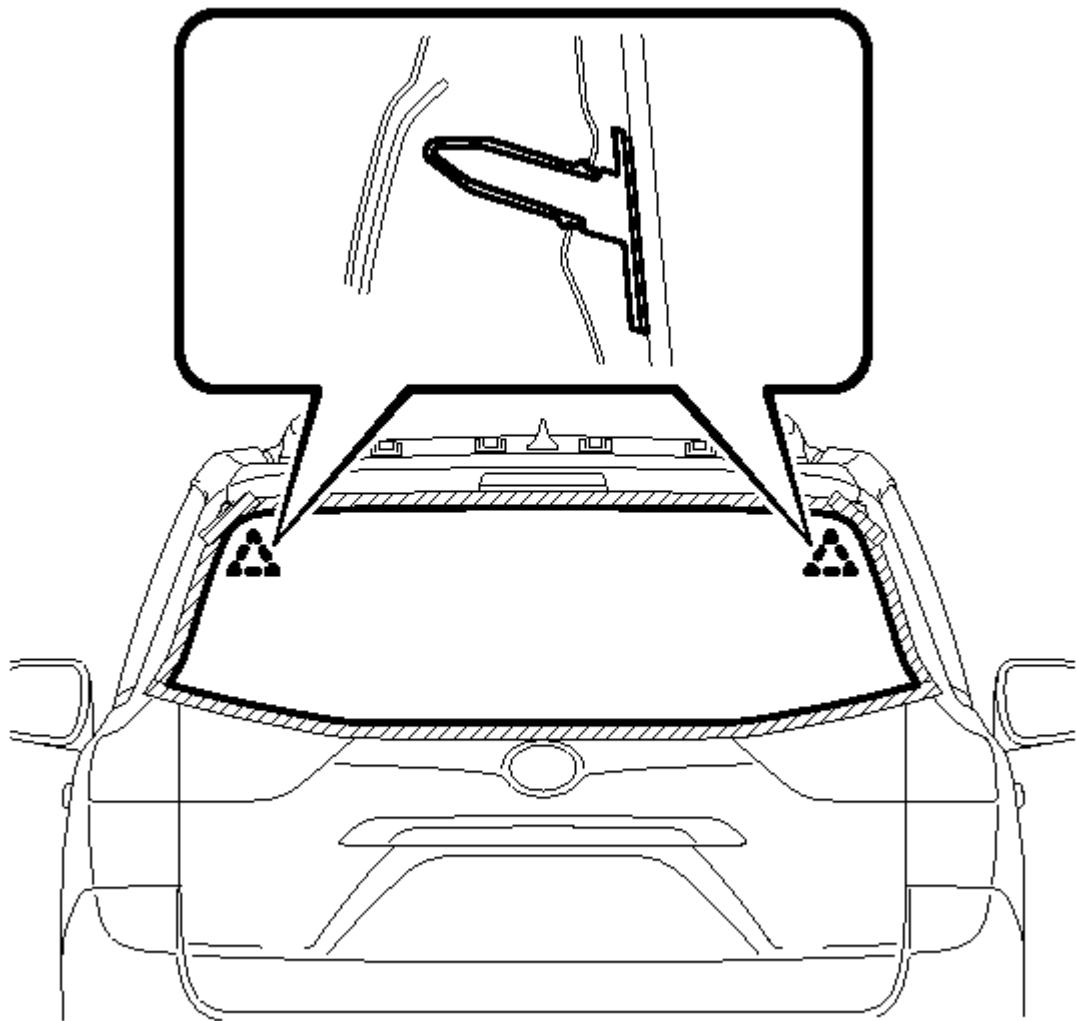
*1 Matchmark

2. Lightly press the back door glass to ensure that the back door glass is securely fit to the vehicle body (when glass without a clip is used).

HINT:

Press the glass with a force of 98 N (10 kgf, 22 lbf) or more.

3. Using suction cups, engage the 4 clips to install the back door glass (when glass with all clips is used).



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Fig. 81: Identifying Back Door Glass & Clips

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

NOTE:

- Check that the clips are attached to the vehicle body correctly.
- Check the clearance between the vehicle body and back door glass.

4. Lightly press the front surface of the back door glass to ensure that the back door glass is securely fit to the vehicle body.

HINT:

Press the back door glass with a force of 98 N (10 kgf, 22 lbf) or more.

5. Using a scraper, remove any excess or protruding adhesive.

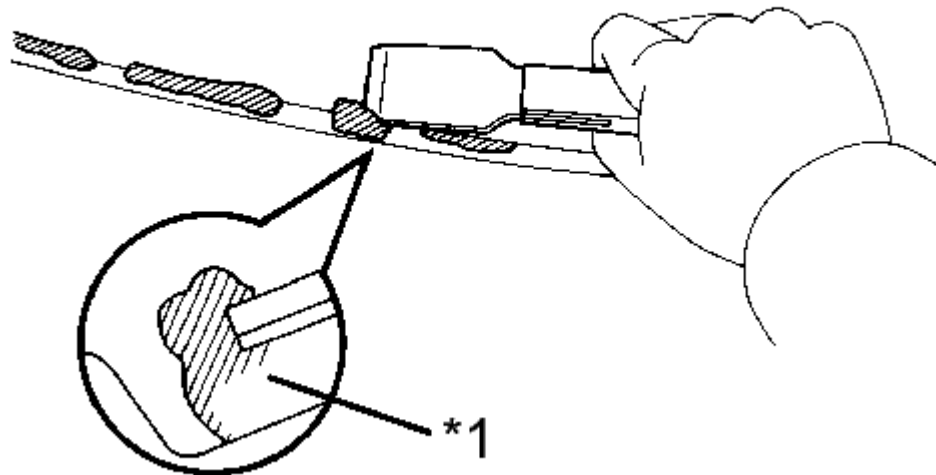


Fig. 82: Removing Excess Or Protruding Adhesive Using Scraper
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1 Adhesive

HINT:

Apply adhesive onto the glass rim.

6. Hold the back door glass using protective tape until applied adhesive becomes hard.

NOTE: Do not drive the vehicle within the time described in the table below.

Minimum Time

Temperature	Minimum Time prior to Driving Vehicle
35°C (95°F)	1 hour and 30

	minutes
20°C (68°F)	5 hours
5°C (41°F)	24 hours

e. Connect the connectors.

7. INSPECT FOR LEAK AND REPAIR

- After the adhesive has hardened, apply water from the outside of the vehicle. Check that no water leaks into the cabin.
- If water leaks into the cabin, allow the water to dry and add adhesive.
- Remove the protective tape.

8. INSTALL REAR WIPER MOTOR AND BRACKET ASSEMBLY

Refer to INSTALLATION

WINDOW DEFOGGER WIRE

ON-VEHICLE INSPECTION

ON-VEHICLE INSPECTION

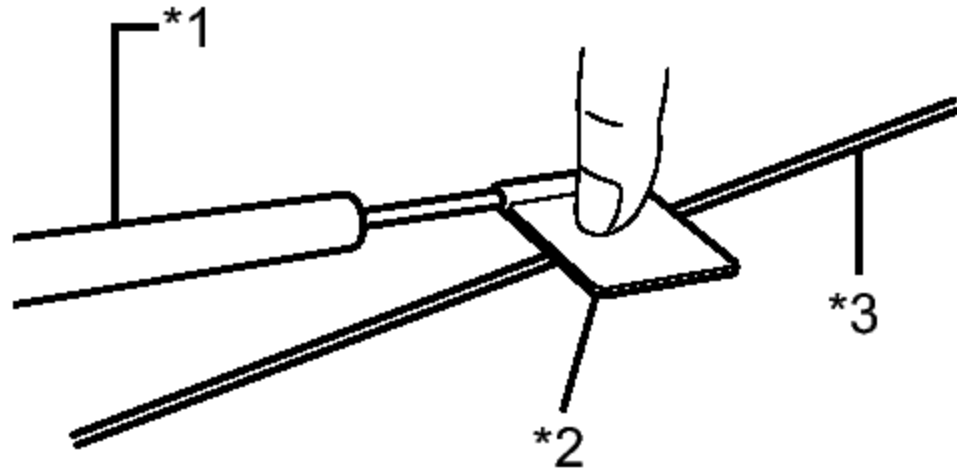
1. CHECK REAR WINDOW DEFOGGER SYSTEM OPERATION

- When the engine switch is on (IG) and the rear window defogger switch is pressed, check that the rear window defogger system operates.

2. INSPECT BACK DOOR GLASS (REAR WINDOW DEFOGGER WIRE)

NOTE:

- When cleaning the glass, wipe the glass along the wire using a soft and dry cloth. Take care not to damage the wires.
- Do not use detergents or glass cleaners that have abrasive ingredients.
- When measuring voltage, wrap a piece of aluminum foil around the tip of the negative tester probe and press the foil against the wire with your finger, as shown in the illustration.



N

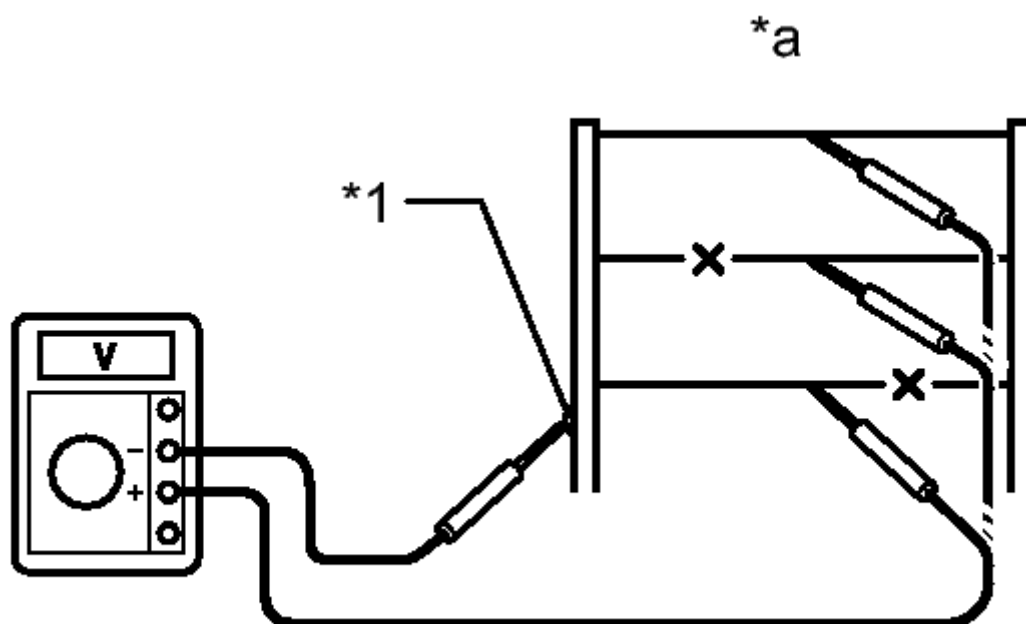
Fig. 83: Inspecting Back Door Glass (Rear Window Defogger Wire)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Turn the ignition switch to ON.
- b. Turn the rear window defogger switch on.

TEXT IN ILLUSTRATION

*1	Tester Probe
*2	Aluminum Foil
*3	Rear Window Defogger Wire

- c. Measure the voltage at the center of each rear window defogger wire to check the wire, as shown in the illustration.



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Fig. 84: Checking Rear Window Defogger Wire Voltage
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Foil Strip
*a	At Center

Result

Voltage	Criteria
4 to 6 V	Wire is not broken
11 to 14 V	Wire is broken between the center and battery side end
	Wire is broken between

Below 1 V	the center and ground side end
--------------	--

HINT:

If the voltage is 11 to 14 V, the wire may be faulty between the center of the wire and the wire end on the battery side. If the voltage is below 1 V, the wire may be faulty between the center of the wire and the wire end on the ground side.

- d. Place a positive (+) lead of the voltmeter against the rear window defogger wire on the battery side.

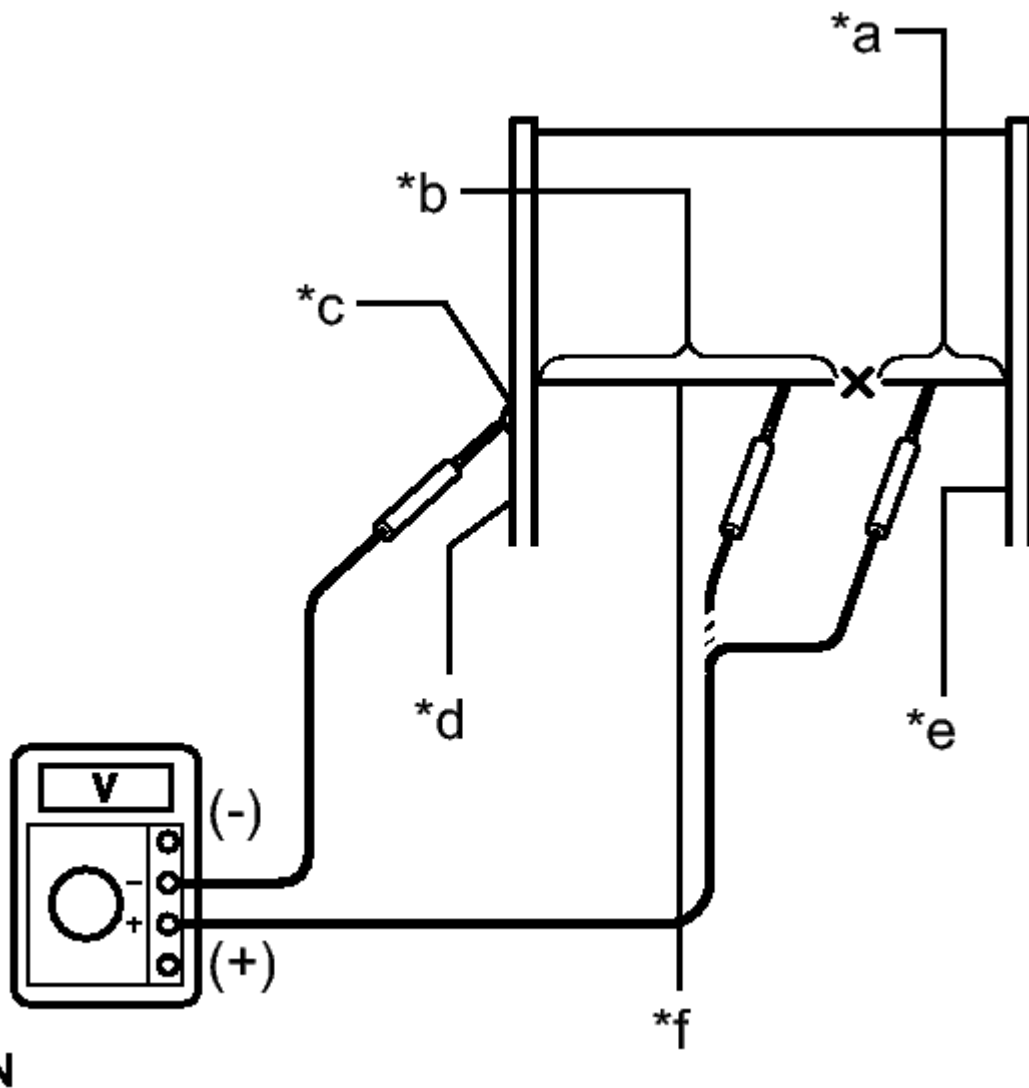


Fig. 85: Checking Rear Window Defogger Wire Voltage
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*a	11 to 14
*b	Below 1 V
*c	Foil Strip
*d	Ground Side
*e	Battery Side
*f	Broken Wire

- e. Place a negative (-) lead of the voltmeter with the foil strip against the wire on the ground side.
- f. Slide the positive (+) lead from the battery side to the ground side. The point where the voltage drops to below 1 V from 11 to 14 V is the place where the rear window defogger wire is broken.

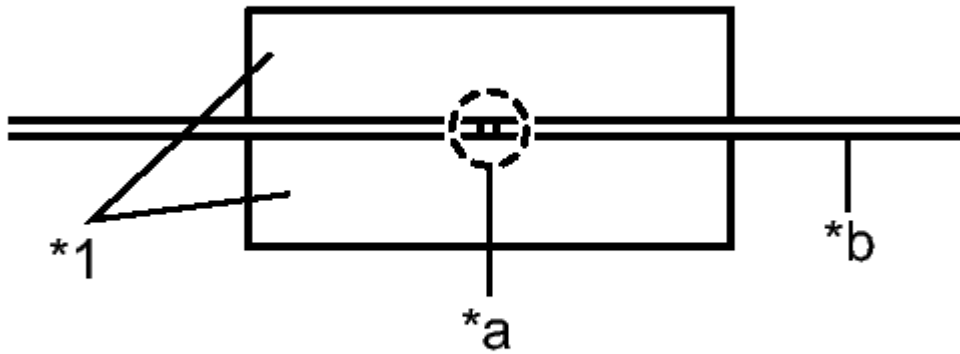
HINT:

If the rear window defogger wire is not broken, the voltmeter should indicate 11 to 14 V at the battery side. When the positive (+) lead slides to the ground side, the voltage gradually decreases to below 1 V.

REPAIR

REPAIR

1. REPAIR REAR WINDOW DEFOGGER WIRE



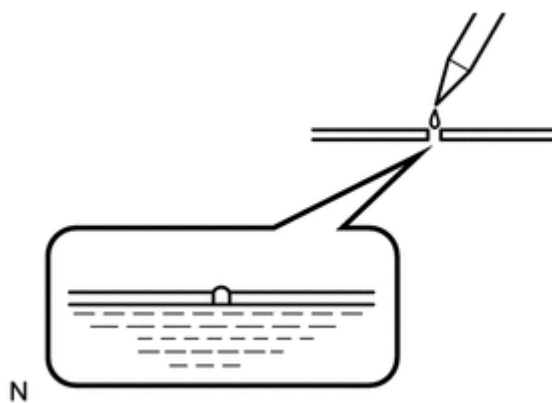
N

Fig. 86: Identifying Rear Window Defogger Wire Repair Point
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Masking Tape
*a	Repair Point
*b	Broken Wire

- Clean the broken wire tips with a grease, wax and silicone remover.
- Place masking tape along both sides of the wire.
- Thoroughly mix the repair agent (DuPont paste No. 4817 or equivalent).



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Fig. 87: Applying Small Amount Of Agent To Wire
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Using a fine tip brush, apply a small amount of the agent to the wire.
- e. After a few minutes, remove the masking tape.

NOTE: **Do not repair the rear window defogger wire again for at least 24 hours.**

QUARTER WINDOW GLASS

COMPONENTS

ILLUSTRATION

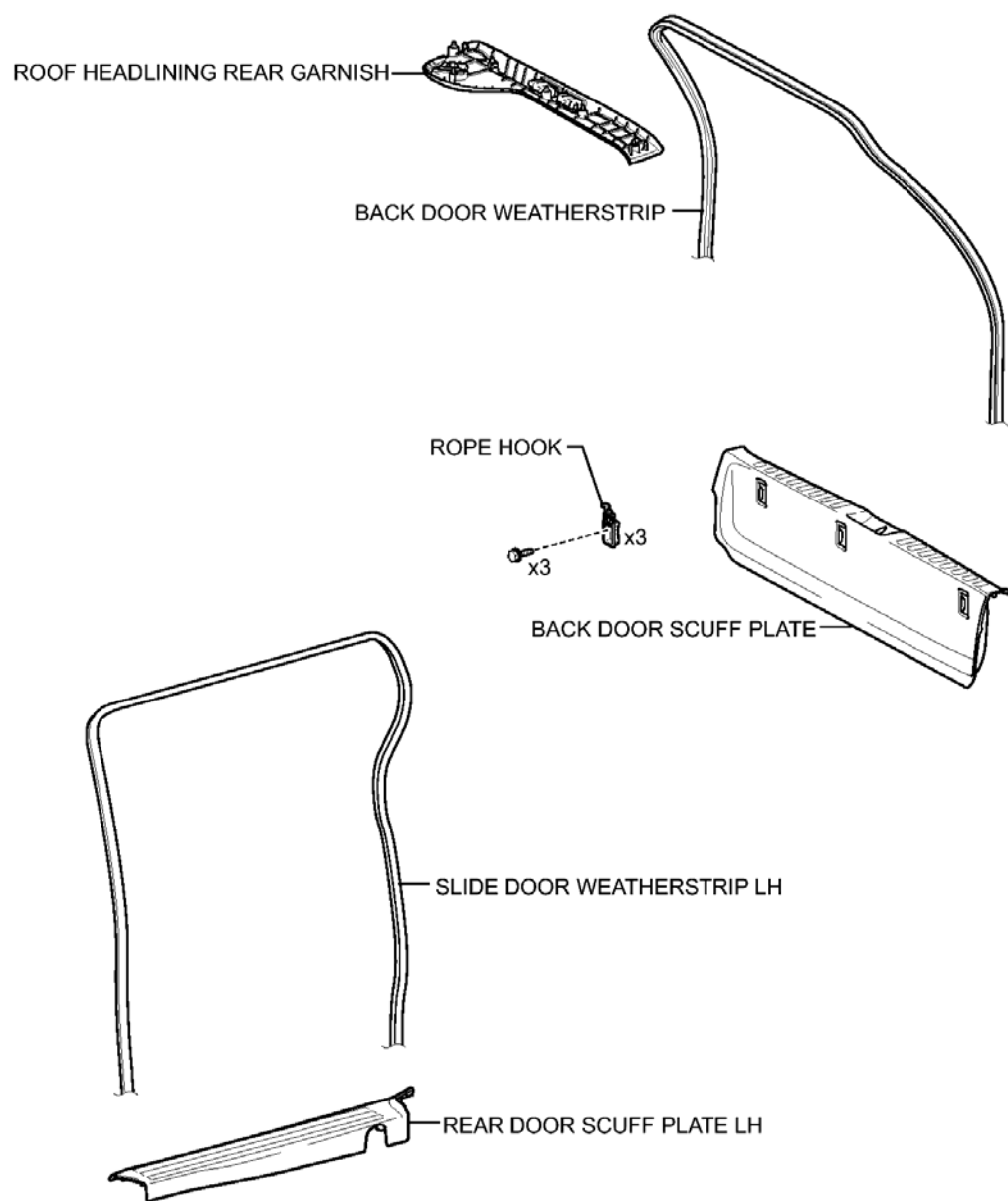
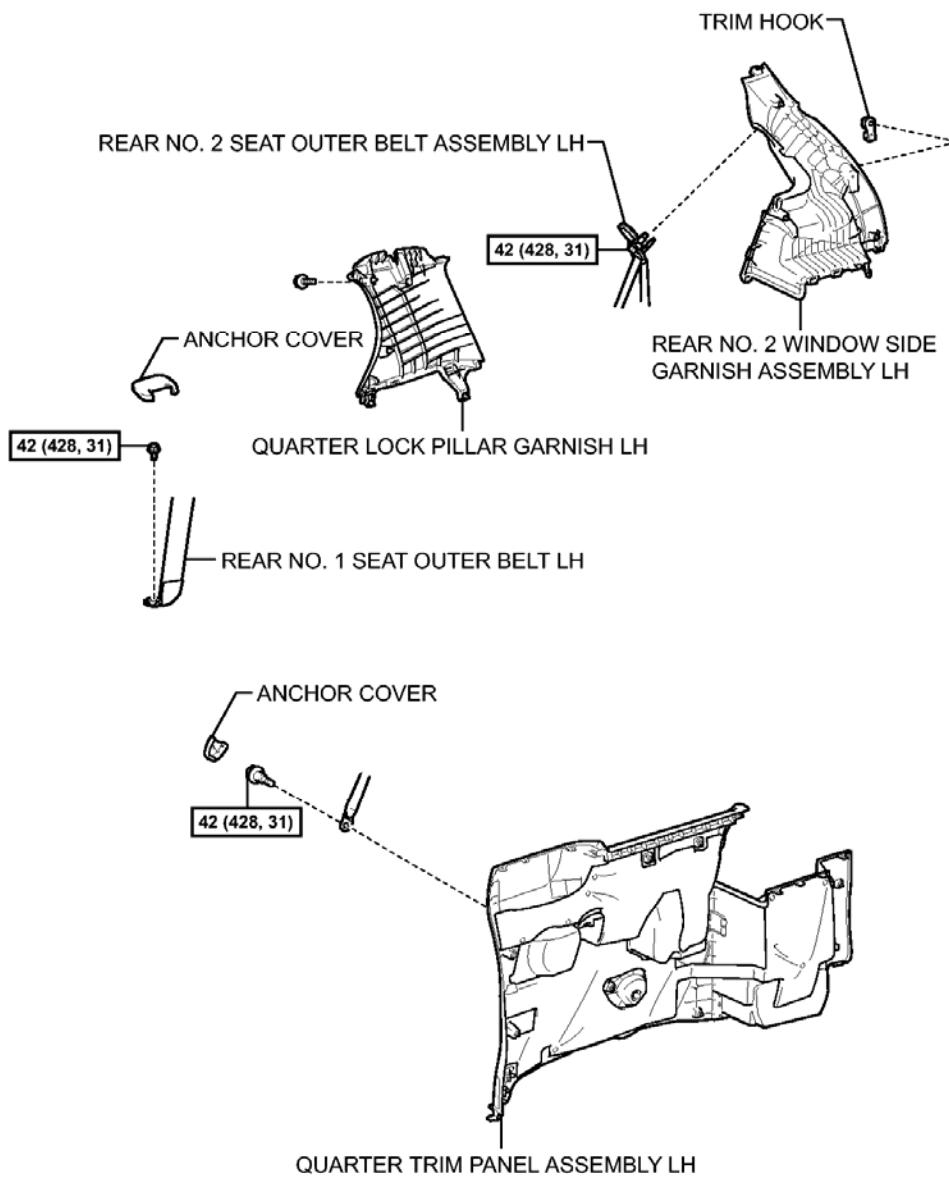


Fig. 88: Quarter Window Glass Replacement Components (1 of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



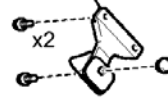
$\boxed{\text{N}\cdot\text{m (kgf}\cdot\text{cm, ft.}\cdot\text{lbf)}}$: Specified torque

Fig. 89: Quarter Window Glass Replacement Components With Torque Specifications (2 of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

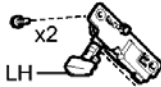
ILLUSTRATION

for Manual Window Type:

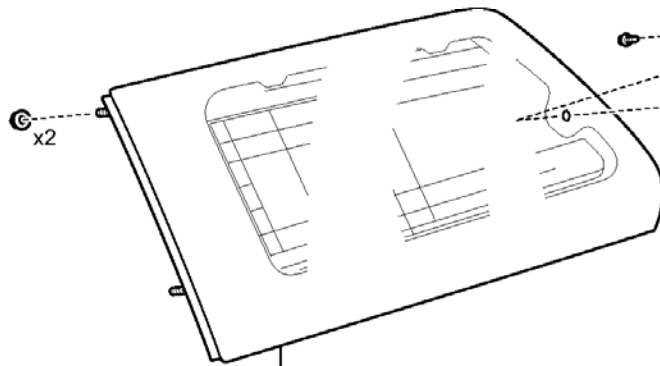
QUARTER WINDOW LOCK ASSEMBLY LH



POWER VENT WINDOW MOTOR ASSEMBLY LH



QUARTER WINDOW
LOCK HINGE



REAR SIDE WINDOW ASSEMBLY LH

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Fig. 90: Quarter Window Glass Replacement Components (3 of 3)

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

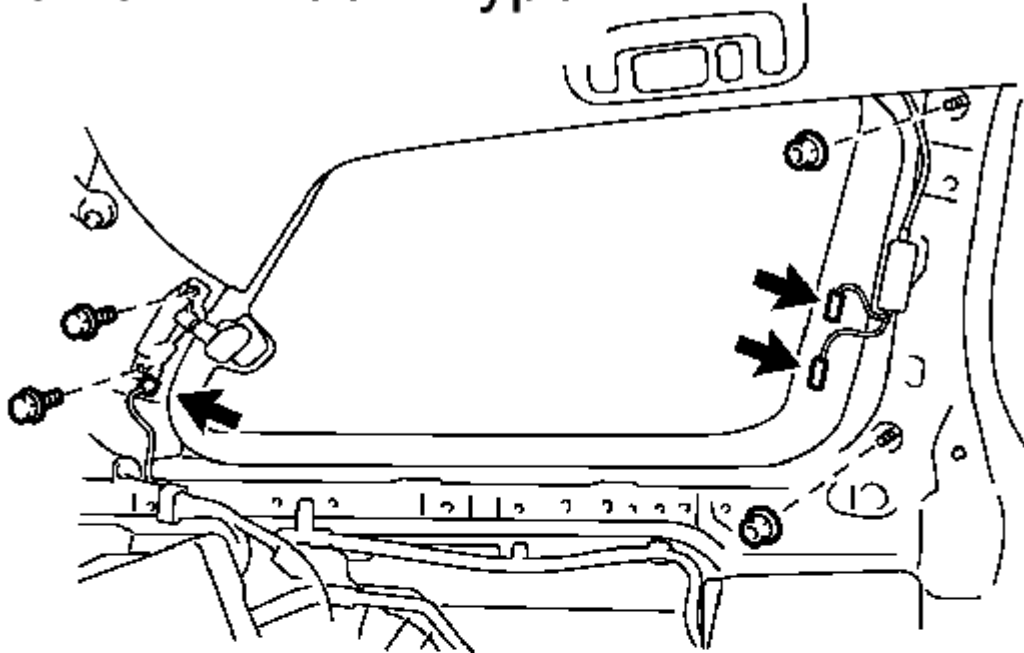
REMOVAL

REMOVAL

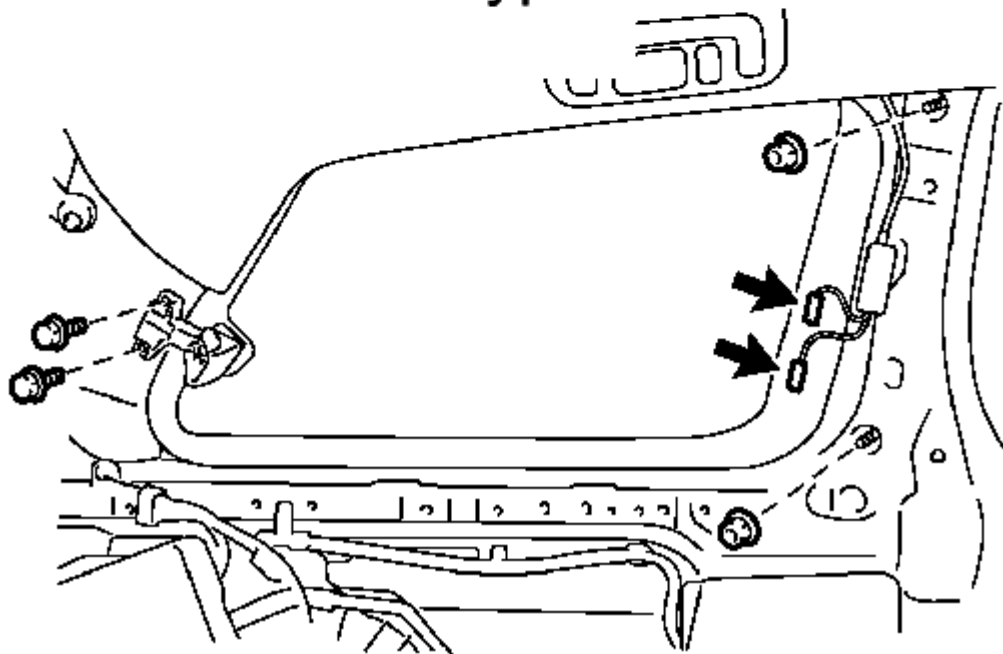
1. SEPARATE BACK DOOR WEATHERSTRIP
2. REMOVE BACK DOOR SCUFF PLATE . Refer to **REMOVAL - Step 17**
3. REMOVE ROOF HEADLINING REAR GARNISH . Refer to **REMOVAL - Step 19**
4. REMOVE REAR DOOR SCUFF PLATE LH . Refer to **REMOVAL - Step 13**
5. SEPARATE SLIDE DOOR WEATHERSTRIP LH
6. SEPARATE REAR NO. 2 SEAT OUTER BELT ASSEMBLY LH . Refer to **REMOVAL - Step 24**
7. REMOVE QUARTER TRIM PANEL ASSEMBLY LH . Refer to **REMOVAL - Step 27**
8. REMOVE REAR NO. 2 WINDOW SIDE GARNISH ASSEMBLY LH . Refer to **REMOVAL - Step 29**

9. **REMOVE QUARTER LOCK PILLAR GARNISH LH** . Refer to **REMOVAL - Step 30**
10. **REMOVE REAR SIDE WINDOW ASSEMBLY LH**
 - a. Disconnect the connectors.

Power Window Type:



Manual Window Type:



H

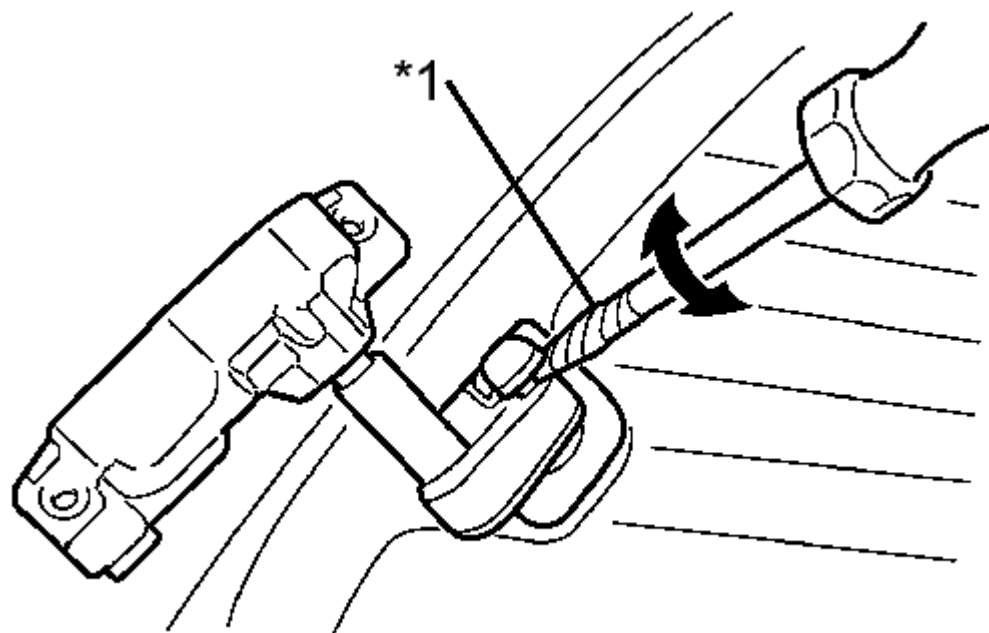
Fig. 91: Identifying Rear Side Window Assembly & Fasteners

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

b. Remove the 2 nuts and 2 bolts and remove the rear side window.

11. **REMOVE POWER VENT WINDOW MOTOR ASSEMBLY LH (for Power Window Type)**

a. Using a screwdriver with its tip wrapped in protective tape, remove the power vent window motor.



H

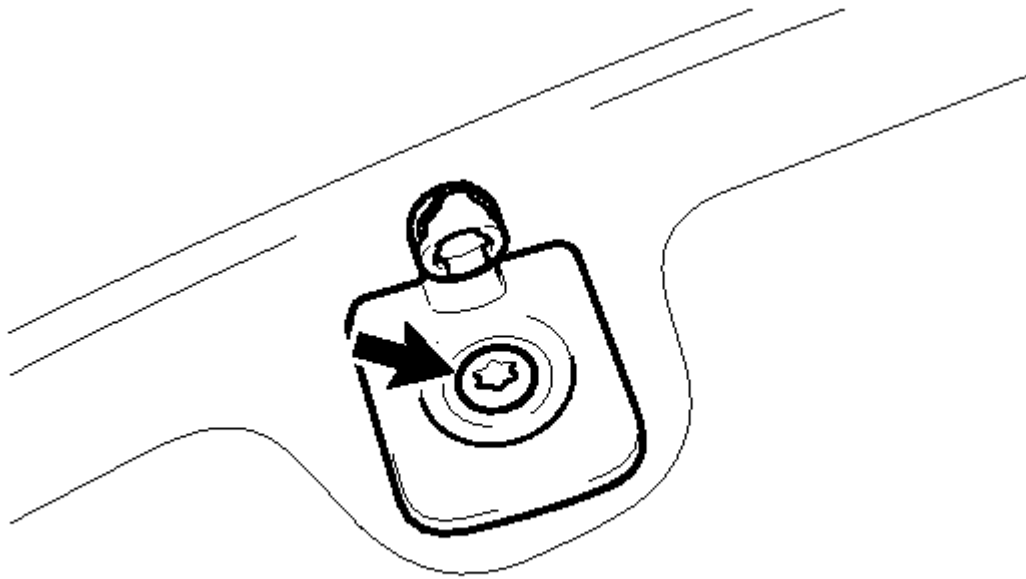
B67572

Fig. 92: Removing Power Vent Window Motor Assembly Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

12. **REMOVE QUARTER WINDOW LOCK HINGE (for Power Window Type)**



P

Fig. 93: Identifying Quarter Window Lock Hinge & Fastener

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

- a. Using a T30 "TORX" socket wrench, remove the screw and quarter window lock hinge.
- 13. **REMOVE QUARTER WINDOW LOCK ASSEMBLY LH (for Manual Window Type)**
 - a. Using a T30 "TORX" socket wrench, remove the screw and quarter window lock.

INSTALLATION

INSTALLATION

- 1. **INSTALL QUARTER WINDOW LOCK HINGE (for Power Window Type)**
 - a. Using a T30 "TORX" socket wrench, install the quarter window lock hinge with the screw.
- 2. **INSTALL POWER VENT WINDOW MOTOR ASSEMBLY LH (for Power Window Type)**
 - a. Install the power vent window motor.
- 3. **INSTALL QUARTER WINDOW LOCK ASSEMBLY LH (for Manual Window Type)**
 - a. Using a T30 "TORX" socket wrench, install the quarter window lock with the screw.
- 4. **INSTALL REAR SIDE WINDOW ASSEMBLY LH**
 - a. Install the rear side window with the 2 bolts and 2 nuts.
- 5. **INSTALL QUARTER LOCK PILLAR GARNISH LH** . Refer to **INSTALLATION - Step 10**
- 6. **INSTALL REAR NO. 2 WINDOW SIDE GARNISH ASSEMBLY LH** . Refer to **INSTALLATION - Step 13**
- 7. **INSTALL QUARTER TRIM PANEL ASSEMBLY LH** . Refer to **INSTALLATION - Step 11**
- 8. **INSTALL REAR NO. 2 SEAT OUTER BELT ASSEMBLY LH** . Refer to **INSTALLATION - Step**

16

9. **INSTALL SLIDE DOOR WEATHERSTRIP LH**
10. **INSTALL REAR DOOR SCUFF PLATE LH . Refer to INSTALLATION - Step 27**
11. **INSTALL ROOF HEADLINING REAR GARNISH . Refer to INSTALLATION - Step 22**
12. **INSTALL BACK DOOR SCUFF PLATE . Refer to INSTALLATION - Step 24**
13. **INSTALL BACK DOOR WEATHERSTRIP**