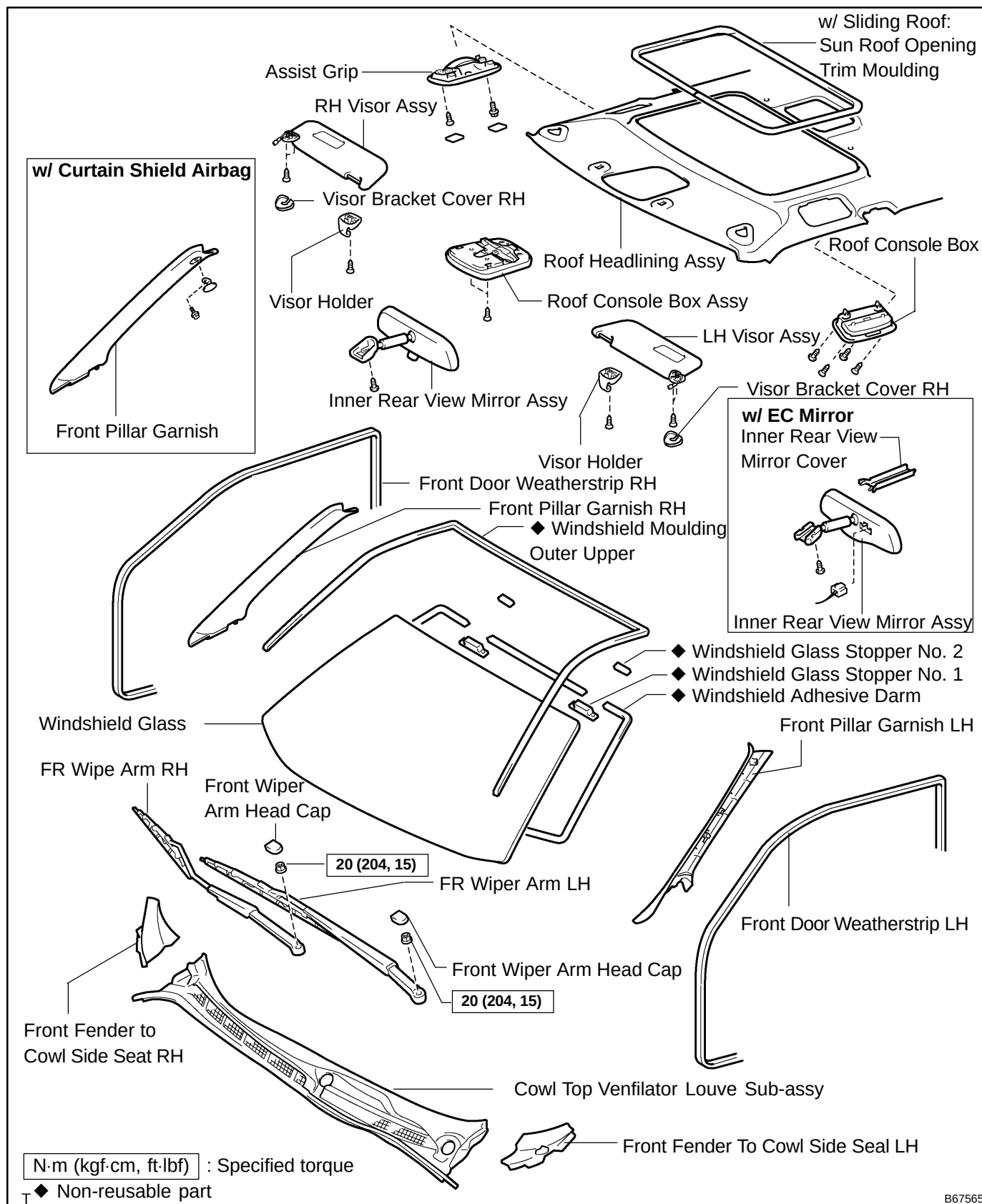


WINDSHIELD GLASS COMPONENTS

700SK-02

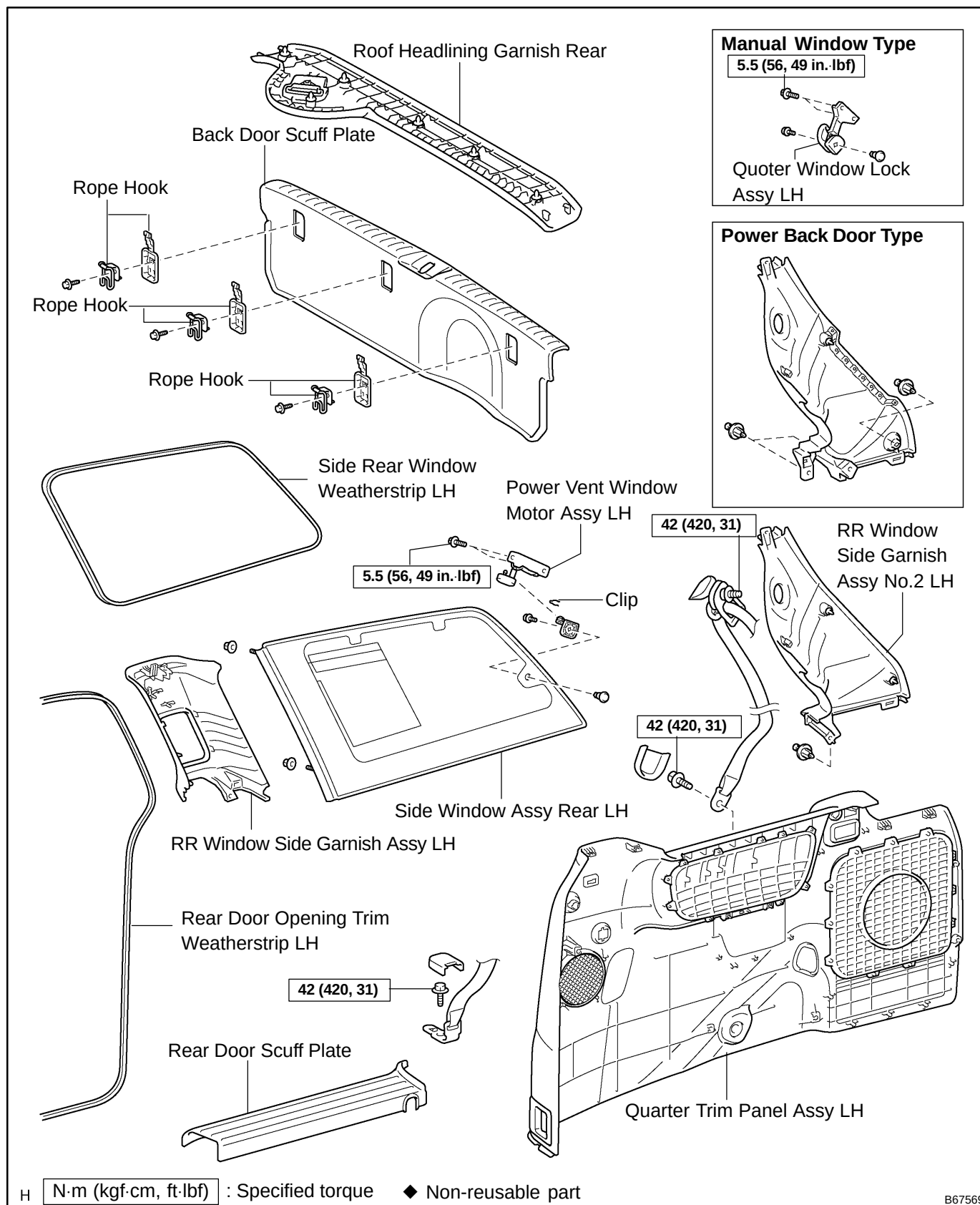


B67565

SIDE WINDOW ASSY REAR LH

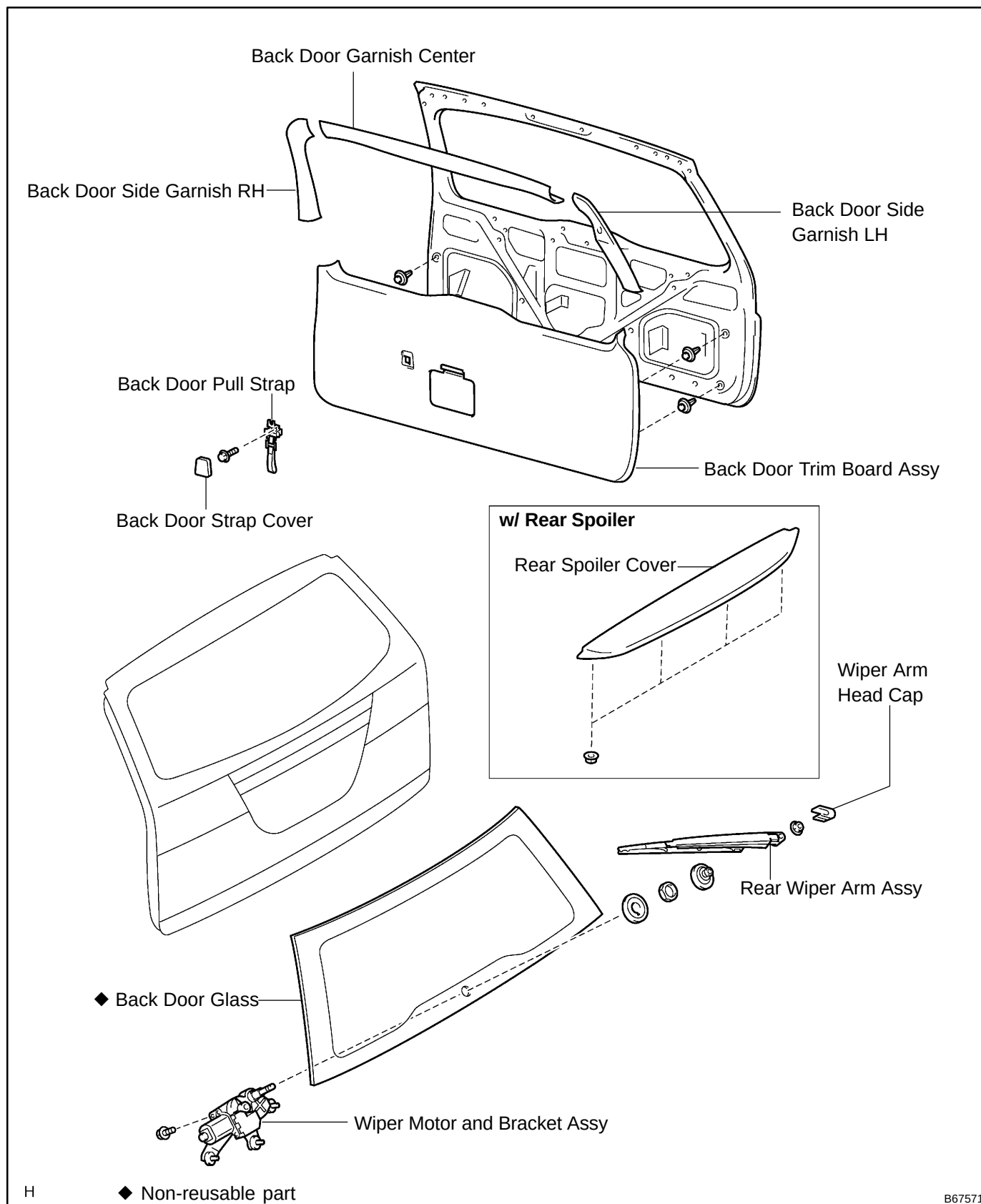
COMPONENTS

700SM-01



BACK DOOR GLASS COMPONENTS

700SO-02



CUSTOMIZE PARAMETERS

HINT:

The following item can be customized.

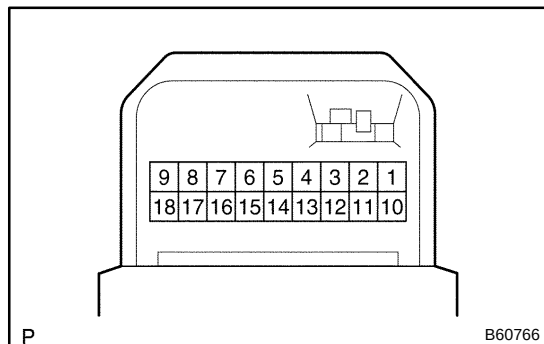
NOTICE:

- After confirming whether the items requested by the customer are applicable or not for the customization, perform the customize operation.
- Be sure to record the current settings before customizing.
- When troubleshooting, make sure that the item in question is not set to "OFF" as a result of customization (Example: For the system, "the wireless function does not operate", first check that the wireless function is not set to "OFF", then perform troubleshooting).

POWER WINDOW

DISPLAY (ITEM)	DEFAULT	CONTENTS	SETTING
IG OFF P/W	ON	After ignition switch OFF, power window control permission output	ON / OFF

INSPECTION



1. INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY

- (a) Check the resistance between the terminals of the switch when the switch is operated.

Standard:

AUTO (driver side) switch

Window Lock Switch	Power Window Switch	Terminal No.	Specified Condition
-	UP	1 - 9, 4 - 6	Below 1 Ω
	OFF	1 - 4 - 9	
	DOWN	1 - 4, 6 - 9	

Passenger side switch

Window Lock Switch	Power Window Switch	Terminal No.	Specified Condition
OFF (Normal)	UP	1 - 15, 6 - 18	Below 1 Ω
	OFF	1 - 15 - 18	
	DOWN	1 - 18, 6 - 15	
ON (Lock)	UP	6 - 18	
	OFF	15 - 18	
	DOWN	6 - 15	

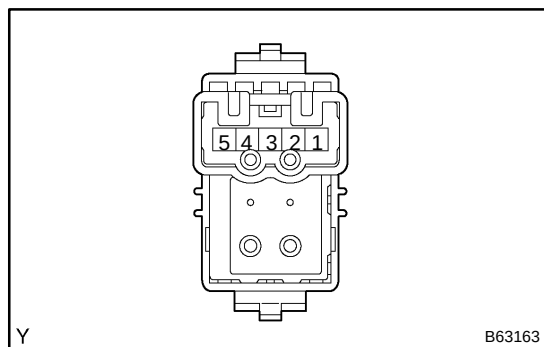
Rear LH switch

Window Lock Switch	Power Window Switch	Terminal No.	Specified Condition
OFF (Normal)	UP	1 - 13, 6 - 12	Below 1 Ω
	OFF	1 - 12 - 13	
	DOWN	1 - 12, 6 - 13	
ON (Lock)	UP	6 - 12	
	OFF	12 - 13	
	DOWN	6 - 12	

Rear RH switch

Window Lock Switch	Power Window Switch	Terminal No.	Specified Condition
OFF (Normal)	UP	1 - 16, 6 - 10	Below 1 Ω
	OFF	1 - 10 - 16	
	DOWN	1 - 10, 6 - 16	
ON (Lock)	UP	6 - 10	
	OFF	10 - 16	
	DOWN	6 - 16	

If the result is not as specified, replace the switch assy.



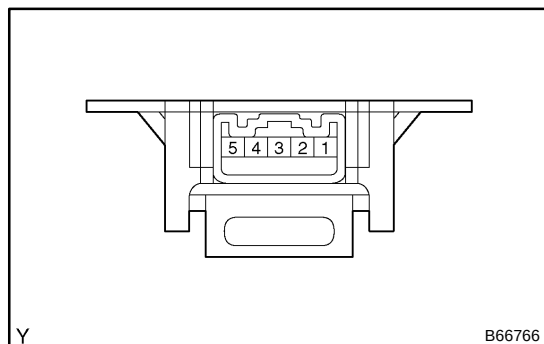
2. INSPECT POWER WINDOW REGULATOR SWITCH ASSY (PASSENGER)

- (a) Check the resistance between the switch terminals when the switch is operated.

Standard:

Terminal No.	Regulator Switch	Specified Condition
1 - 2, 3 - 4	UP	Below 1 Ω
1 - 2, 3 - 5	OFF	
1 - 4, 3 - 5	DOWN	

If the result is not as specified, replace the switch assy.



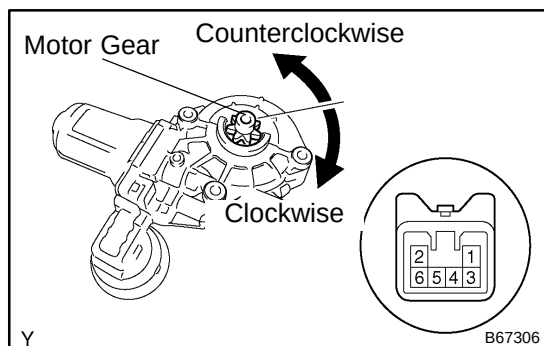
3. INSPECT POWER WINDOW REGULATOR SWITCH ASSY REAR

- (a) Check the resistance between the switch terminals when the switch is operated.

Standard:

Terminal No.	Regulator Switch	Specified Condition
1 - 2, 3 - 4	UP	Below 1 Ω
1 - 2, 4 - 5	OFF	
2 - 3, 4 - 5	DOWN	

If the result is not as specified, replace the switch assy.



4. INSPECT POWER WINDOW REGULATOR MOTOR ASSY LH (FRONT)

- (a) Apply battery voltage to terminals 1 and 2.
(b) Check that the motor smoothly rotates.

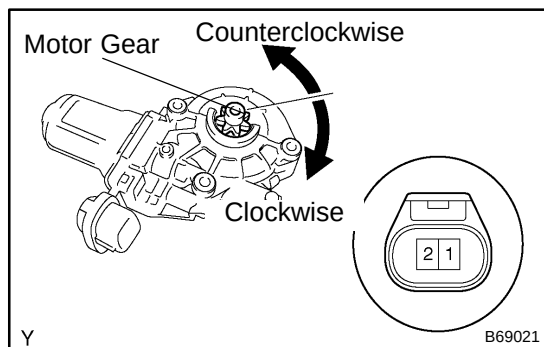
NOTICE:

Do not apply battery voltage to any terminals except terminals 1 and 2.

Standard:

Terminal No.	Specified Condition
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates counterclockwise
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates clockwise

If the result is not as specified, replace the motor assy.



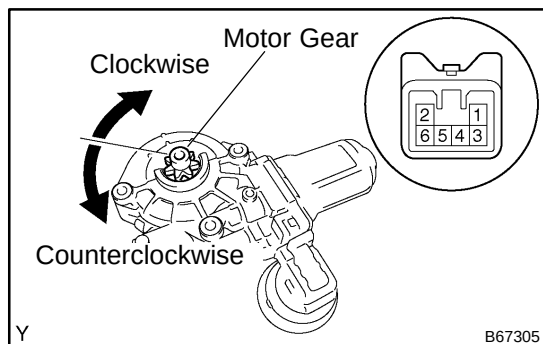
5. INSPECT POWER WINDOW REGULATOR MOTOR ASSY LH (REAR)

- (a) Apply battery voltage to terminals 1 and 2.
(b) Check that the motor smoothly rotates.

Standard:

Terminal No.	Specified Condition
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates clockwise
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates counterclockwise

If the result is not as specified, replace the motor assy.



6. INSPECT POWER WINDOW REGULATOR MOTOR ASSY RH (FRONT)

- Apply battery voltage to terminals 1 and 2.
- Check that the motor smoothly rotates.

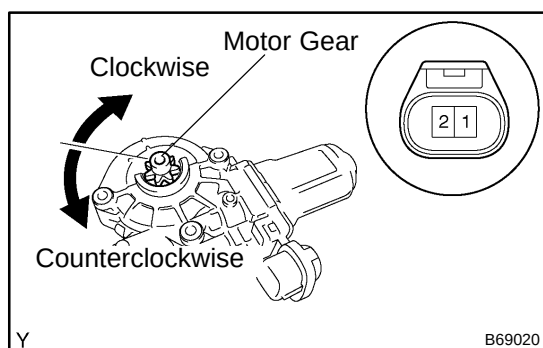
NOTICE:

Do not apply battery voltage to any terminals except terminals 1 and 2.

Standard:

Terminal No.	Specified Condition
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates clockwise
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates counterclockwise

If the result is not as specified, replace the motor assy.



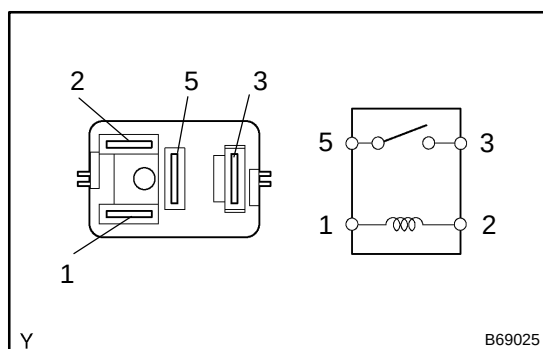
7. INSPECT POWER WINDOW REGULATOR MOTOR ASSY RH (REAR)

- Apply battery voltage to terminals 1 and 2.
- Check that the motor smoothly rotates.

Standard:

Terminal No.	Specified Condition
Battery positive (+) → 1 Battery negative (-) → 2	Motor gear rotates counterclockwise
Battery positive (+) → 2 Battery negative (-) → 1	Motor gear rotates clockwise

If the result is not as specified, replace the motor assy.



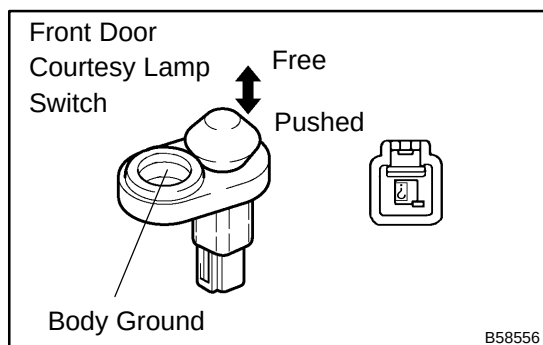
8. INSPECT POWER WINDOW RELAY (Marking: PWR)

- Remove the relay from the instrument panel J/B.
- Check the resistance of the relay.

Standard:

Terminal No.	Specified Condition
3 - 5	10 kΩ or higher
	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

If the result is not as specified, replace the relay.



9. INSPECT FRONT DOOR COURTESY LAMP SWITCH ASSY

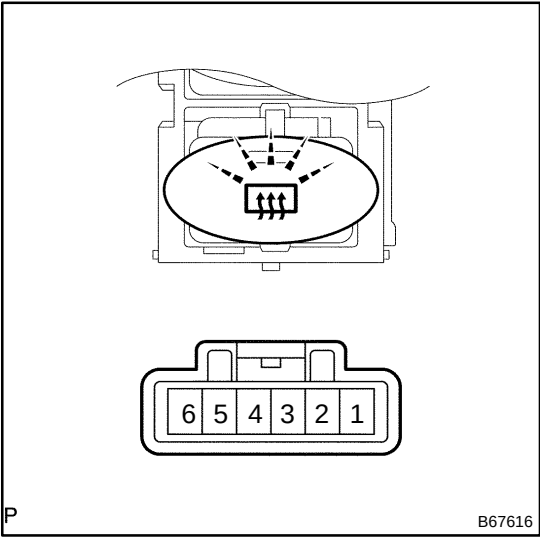
- Remove the courtesy lamp switch.
- Check the switch resistance.

Standard:

Terminal No.	Condition	Specified Condition
1 - Body ground	Switch pushed	10 kΩ or higher
	Switch free	Below 1 Ω

If the result is not as specified, replace the switch assy.

INSPECTION



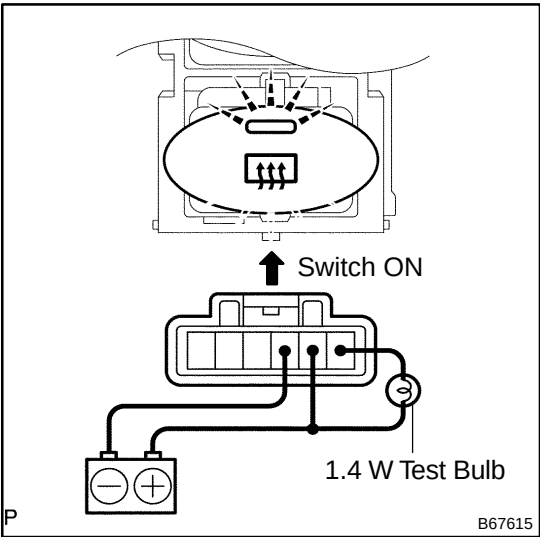
1. INSPECT HAZARD WARNING SIGNAL SWITCH ASSY

(a) Check the defogger switch illuminates.

Standard:

Measurement Condition	Specified Condition
Battery positive (+) → ILL+ (6) Battery negative (-) → ILL- (5)	Illuminates

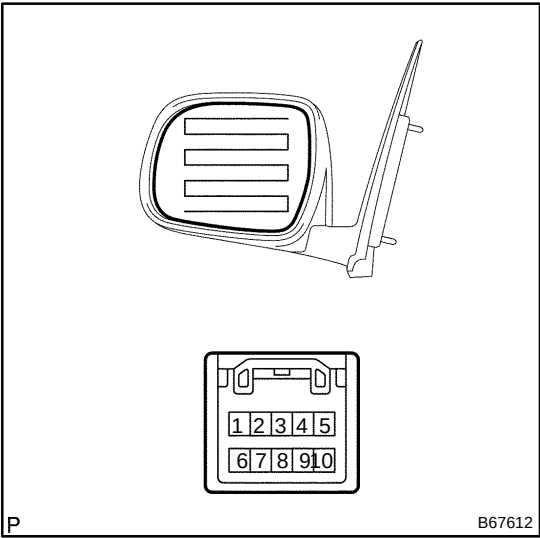
If the result is not as specified, replace the switch assy or bulb.



(b) Check the defogger timer.

- (1) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 3.
- (2) Connect the positive (+) lead from the battery to terminal 1 through a 1.4 W test bulb.
- (3) Push the outer defogger switch ON then check that the switch and the test bulb turn off after they illuminate for 12 to 18 minutes.

If the result is not as specified, replace the switch assy.



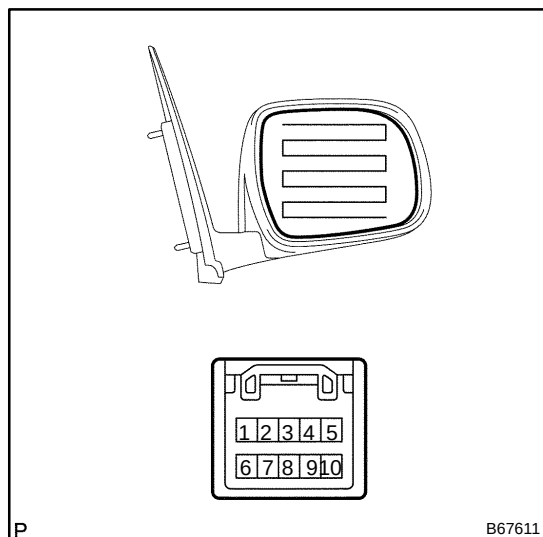
2. INSPECT OUTER REAR VIEW MIRROR ASSY LH (w/ OUTER MIRROR HEATER)

(a) Inspect operation of the mirror heater.

Standard:

Measurement Condition	Specified Condition
Battery positive (+) → H+ (1) Battery negative (-) → H- (5)	Mirror becomes warm

If the result is not as specified, replace the mirror assy.



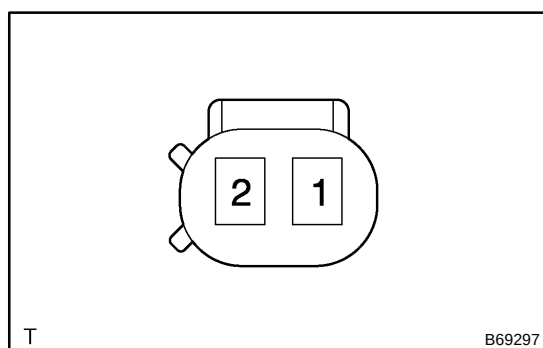
3. INSPECT OUTER REAR VIEW MIRROR ASSY RH (w/ OUTER MIRROR HEATER)

- (a) Inspect operation of the mirror heater.

Standard:

Measurement Condition	Specified Condition
Battery positive (+) → H+ (1) Battery negative (-) → H- (5)	Mirror becomes warm

If the result is not as specified, replace the mirror assy.



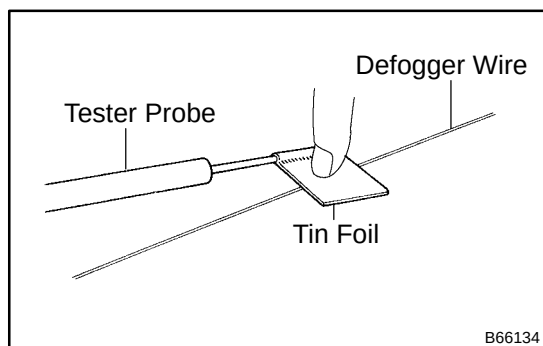
4. INSPECT FRONT WINDOW (DEICER WIRE) (W/ DEICER)

Standard:

- (a) Inspect the resistance of the deicer wire.

Terminal No.	Condition	Specified Condition
1 - 2	Constant	Below 1 Ω

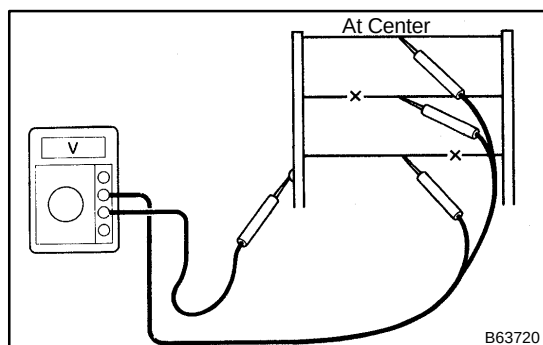
If the result is not as specified, replace the window.



5. INSPECT BACK WINDOW (DEFOGGER WIRE)

NOTICE:

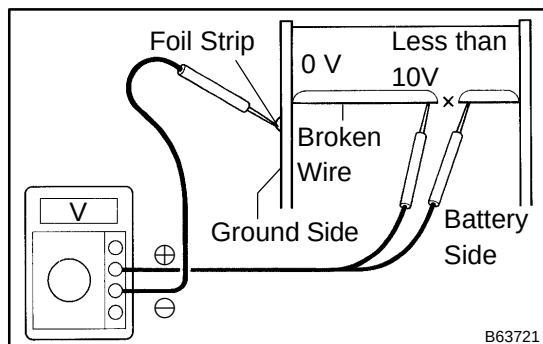
- When cleaning the glass, wipe the glass along the wire using a soft and dry cloth. Take care not to damage the wires.
- Do not use detergents or glass cleaners including abrasive ingredients.
- When measuring voltage, wrap a piece of tin foil around the tip of the negative probe and press the foil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



- (a) Turn the ignition switch ON.
- (b) Turn the defogger switch ON.
- (c) Inspect the voltage at the center of each defogger wire, as shown in the illustration.

Standard:

Voltage	Criteria
Approx. 5 V	Okay, wire is not broken
Approx. 10 V or 0 V	Wire is broken

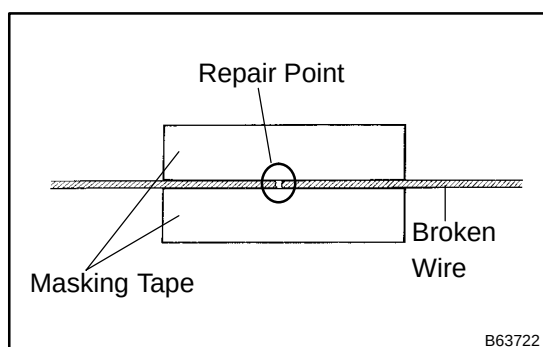
**HINT:**

If there is approximately 10 V, the wire may be broken between the center of the wire and the end on the battery side. If there is no voltage, the wire may be broken between the center of the wire and the end on the ground side.

- (d) Place the voltmeter positive (+) lead against the defogger wire on the battery side.
- (e) Place the voltmeter negative (-) lead with the foil strip against the wire on the ground side.
- (f) Slide the positive (+) lead from the battery side to the ground side.
- (g) The point where the voltmeter deflects from approx 10 V to 0 V is the place where the defogger wire is broken.

HINT:

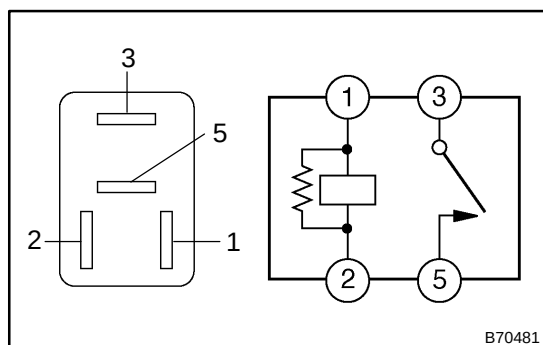
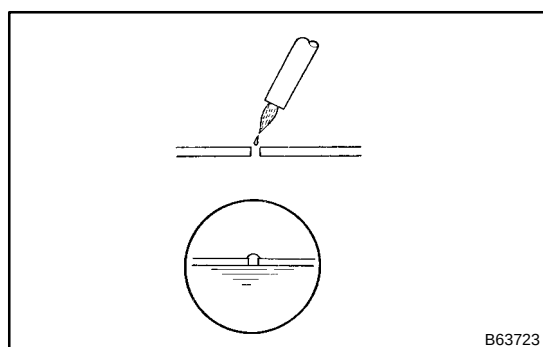
If the defogger wire is not broken, the voltmeter indicates 0 V at the positive (+) end of the defogger wire but gradually increases to about 12 V as the meter probe moves to the other end.



- (h) If necessary, repair the defogger wire.
 - (1) Clean the broken wire tips with grease, wax and silicone remover.
 - (2) Place the masking tape along the both sides of the wire.
 - (3) Thoroughly mix the repair agent (Dupont paste No. 4817).
 - (4) Using a fine tip brush, apply a small amount of the agent to the wire.
 - (5) After a few minutes, remove the masking tape.

NOTICE:

Do not repair the defogger wire again for at least 24 hours.

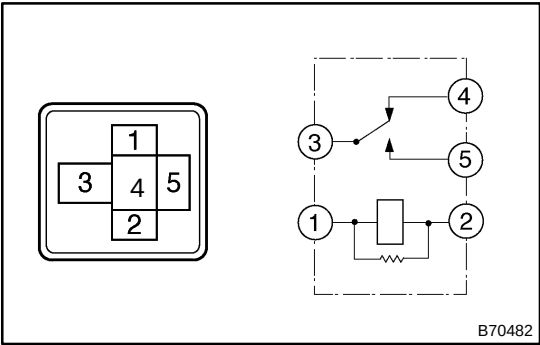
**6. INSPECT FR WIPER DEICER RELAY (W/ DEICER)**

- (a) Inspect the resistance.

Standard:

Terminal No.	Specified Condition
3 - 5	10 k Ω or higher
	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

If the result is not as specified, replace the relay.



7. INSPECT DEFOGGR RELAY

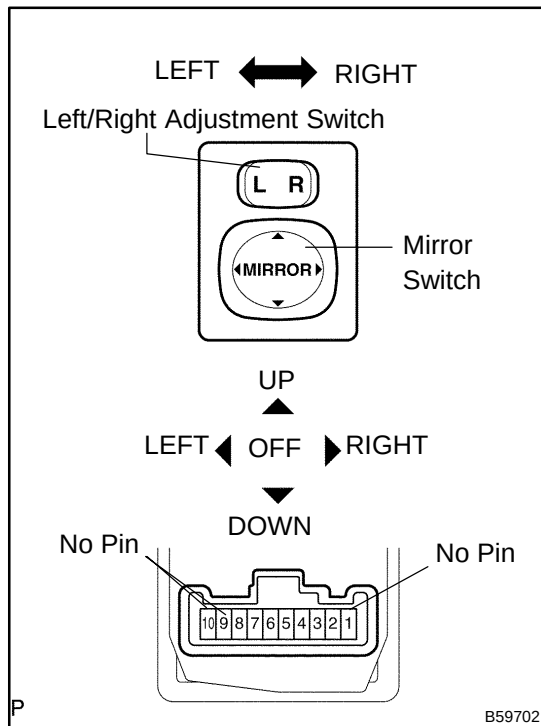
(a) Inspect the resistance.

Standard:

Terminal No.	Specified Condition
3 - 4	Below 1 Ω
3 - 5	10 k Ω or higher
	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

If the result is not as specified, replace the relay.

INSPECTION



1. INSPECT OUTER MIRROR SWITCH ASSY

- (a) The L side of the left/right adjustment switch:
Inspect the mirror switch resistance.

Standard (Left side):

Terminal No.	Switch Position	Specified Condition
-	OFF	10 kΩ or higher
4 - 8	UP	Below 1 Ω
6 - 7		
4 - 7	DOWN	Below 1 Ω
6 - 8		
5 - 8	LEFT	Below 1 Ω
6 - 7		
5 - 7	RIGHT	Below 1 Ω
6 - 8		

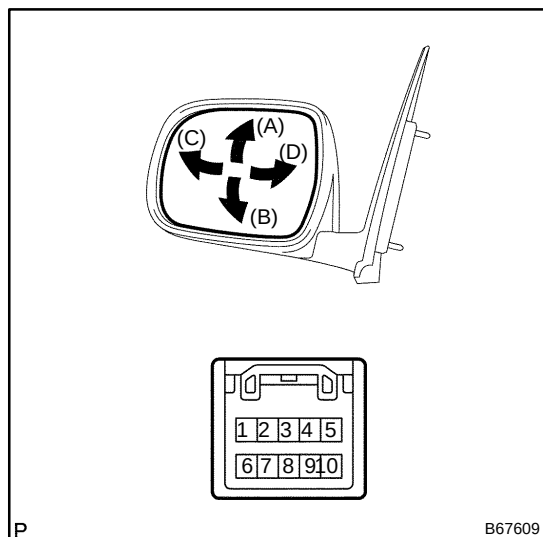
If the result is not as specified, replace the switch assy.

- (b) The R side of the left/right adjustment switch:
Inspect the mirror switch resistance.

Standard (Right side):

Terminal No.	Switch Position	Specified Condition
-	OFF	10 kΩ or higher
3 - 8	UP	Below 1 Ω
6 - 7		
3 - 7	DOWN	Below 1 Ω
6 - 8		
2 - 8	LEFT	Below 1 Ω
6 - 7		
2 - 7	RIGHT	Below 1 Ω
6 - 8		

If the result is not as specified, replace the switch assy.



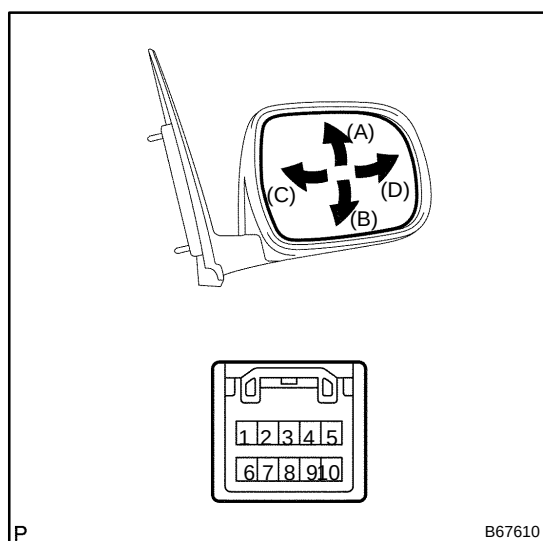
2. INSPECT OUTER REAR VIEW MIRROR ASSY LH

- Disconnect the mirror connector.
- Apply battery voltage and inspect operation of the mirror face, as shown in the table and illustration.

Standard (LH):

Measurement Condition	Mirror Operation
Battery positive (+) → MV (6) Battery negative (-) → M+ (7)	Turns upward (A)
Battery positive (+) → M+ (7) Battery negative (-) → MV (6)	Turns downward (B)
Battery positive (+) → M+ (7) Battery negative (-) → MH (8)	Turns left (C)
Battery positive (+) → MH (8) Battery negative (-) → M+ (7)	Turns right (D)

If the result is not as specified, replace the mirror assy.



3. INSPECT OUTER REAR VIEW MIRROR ASSY RH

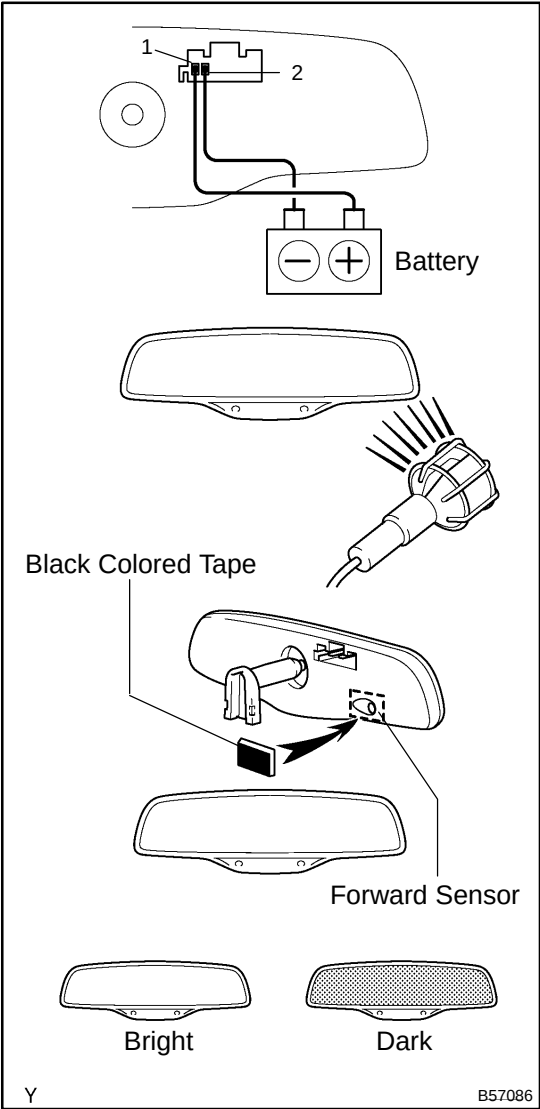
- Disconnect the mirror connector.
- Apply battery voltage and inspect operation of the mirror face, as shown in the table and illustration.

Standard (RH):

Measurement Condition	Mirror Operation
Battery positive (+) → MV (6) Battery negative (-) → M+ (7)	Turns upward (A)
Battery positive (+) → M+ (7) Battery negative (-) → MV (6)	Turns downward (B)
Battery positive (+) → M+ (7) Battery negative (-) → MH (8)	Turns right (D)
Battery positive (+) → MH (8) Battery negative (-) → M+ (7)	Turns left (C)

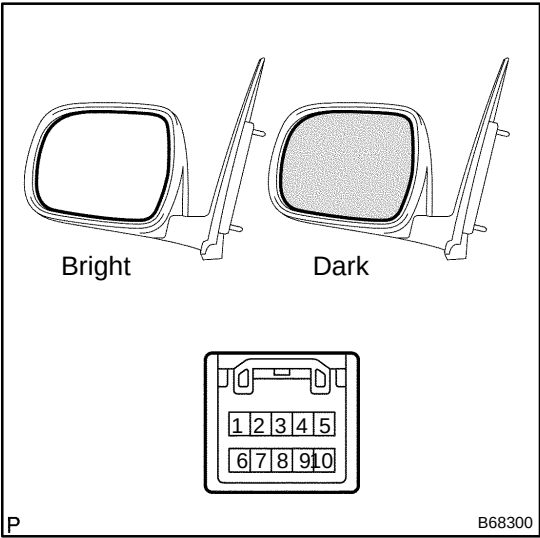
If the result is not as specified, replace the mirror assy.

INSPECTION



1. INSPECT INNER REAR VIEW MIRROR ASSY

- (a) Inspect operation of the electrochromic inner mirror.
 - (1) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2.
 - (2) Attach black colored tape to the forward sensor to prevent it from operating.
 - (3) Light up the mirror with an electric light, and check that the mirror surface changes from bright to dark.
- If the result is not as specified, replace the mirror assy.



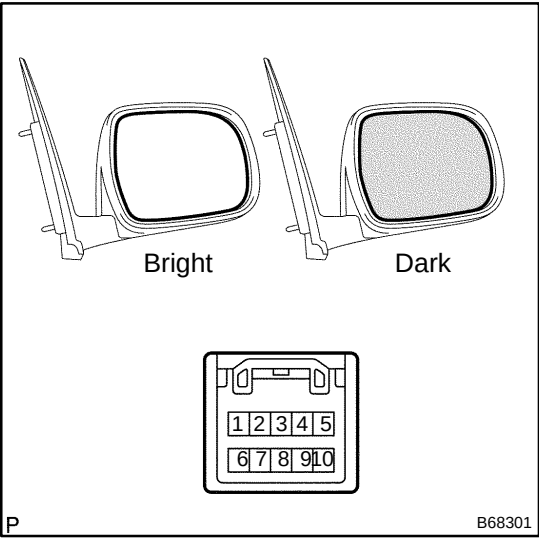
2. INSPECT OUTER REAR VIEW MIRROR ASSY LH

- (a) Disconnect the mirror connector.
- (b) Apply battery voltage and inspect operation of the mirror face, as shown in the table and illustration.

Standard (LH):

Measurement Condition	Mirror Operation
Battery positive (+) → EC+ (10) Baatery negative (-) → EC- (9)	Mirror surface changes to dark

If the result is not as specified, replace the mirror assy.



3. INSPECT OUTER REAR VIEW MIRROR ASSY RH

- (a) Disconnect the mirror connector.
- (b) Apply battery voltage and inspect operation of the mirror face, as shown in the table and illustration.

Standard (RH):

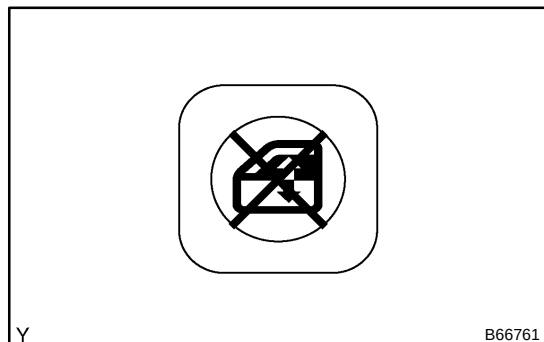
Measurement Condition	Mirror Operation
Battery positive (+) → EC+ (10) Baatery negative (-) → EC- (9)	Mirror surface changes to dark

If the result is not as specified, replace the mirror assy.

POWER WINDOW CONTROL SYSTEM (W/O JAM PROTECTION)

ON-VEHICLE INSPECTION

700SG-01



1. CHECK WINDOW LOCK SWITCH

- Check that the passenger side power window and slide door power windows operation is disabled when the window lock switch of the power window master switch is pressed.
- Check that the passenger side power window and slide door power windows can be operated when the window lock switch is pressed again.

2. CHECK MANUAL UP/DOWN FUNCTION

- Check that the driver side power window can be operated using the AUTO (driver side) switch of the power window master switch as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	AUTO (driver side)	Pull up	UP (Closed)
		Push halfway down	DOWN (Open)

- Check that the passenger side power window and slide door power windows can be operated using each power window regulator switch as follows:

Standard:

Condition	Regulator Switch	Switch Operation	(Slide Door) Power Window
- Ignition switch ON - Window lock switch OFF	Passenger side	Pull up	UP (Closed)
		Push down	DOWN (Open)
	Rear LH	Pull UP	UP (Closed)
		Push down	DOWN (Open)
	Rear RH	Pull up	UP (Closed)
		Push down	DOWN (Open)

3. CHECK AUTO DOWN FUNCTION

- Check that the driver side power window can be operated using the AUTO (driver side) switch of the power window master switch as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	AUTO (driver side)	Pull fully down	AUTO DOWN (Fully open)

4. CHECK REMOTE UP/DOWN FUNCTION

- Check that the passenger side power window and slide door power window can be operated using each switch of the power window master switch as follows:

Standard:

Condition	Master Switch	Switch Operation	(Slide Door) Power Window
- Ignition switch ON - Window lock switch OFF	Passenger side	Pull up	UP (Closed)
		Push down	DOWN (Open)
	Rear LH	Pull up	UP (Closed)
		Push down	DOWN (Open)
	Rear RH	Pull up	UP (Closed)
		Push down	DOWN (Open)

5. CHECK MANUAL UP/DOWN FUNCTION VIA TRANSMITTER

- (a) Check that the front power windows and slide door power windows operate as follows when operating the transmitter.

Standard:

Condition	Transmitter Operation	Power Window
• No key in ignition key cylinder • Any door UNLOCK	Press UNLOCK switch for 2.4 sec. or more	All power windows go DOWN
• No key in ignition key cylinder • All doors CLOSE • All doors LOCK	Press LOCK switch for 2.4 sec. or more	All power windows go UP

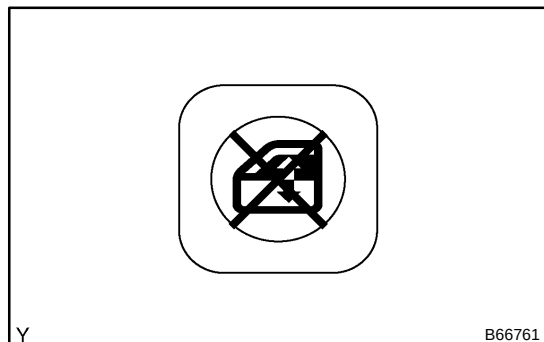
HINT:

- If the vehicle falls out of the conditions listed above while the power windows are operating, they will immediately stop operation.
 - For a sign to start operation, the wireless door lock buzzer sounds once (answer-back).
- 6. CHECK POWER WINDOW OPERATION FUNCTION AFTER IGNITION SWITCH IS TURNED OFF**
- (a) When both of the following conditions are fulfilled, check that the power windows can be operated even after the ignition switch is turned OFF:
- Within 45 seconds after the ignition switch is turned OFF
 - The front doors are closed

POWER WINDOW CONTROL SYSTEM (W/ JAM PROTECTION)

ON-VEHICLE INSPECTION

700SF-01



1. CHECK WINDOW LOCK SWITCH

- (a) Check that the passenger side power window and slide door power windows operation is disabled when the window lock switch of the power window master switch is pressed.
- (b) Check that the passenger side power window and slide door power windows can be operated when the window lock switch is pressed again.

2. CHECK MANUAL UP/DOWN FUNCTION

- (a) Check that the driver side power window can be operated using the AUTO (driver side) switch of the power window master switch as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	AUTO (driver side)	Pull halfway up	UP (Closed)
		Push halfway down	DOWN (Open)

- (b) Check that the passenger side power window and slide door power windows can be operated using each power window regulator switch as follows:

Standard:

Condition	Regulator Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Passenger side	Pull up	UP (Closed)
		Push down	DOWN (Open)
	Rear LH	Pull up	UP (Closed)
		Push down	DOWN (Open)
	Rear RH	Pull up	UP (Closed)
		Push down	DOWN (Open)

3. CHECK AUTO UP/DOWN FUNCTION

- (a) Check that the driver side power window can be operated using the AUTO (driver side) switch of the power window master switch as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	AUTO (driver side)	Pull fully up	AUTO UP (Fully closed)
		Push fully down	AUTO DOWN (Fully open)

4. CHECK REMOTE UP/DOWN FUNCTION

- (a) Check that the passenger side power window and slide door power window can be operated using each switch of the power window master switch as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
- Ignition switch ON - Window lock switch OFF	Passenger	Pull UP	UP (Closed)
		Push DOWN	DOWN (Open)
	Rear LH	Pull UP	UP (Closed)
		Push DOWN	DOWN (Open)
	Rear RH	Pull UP	UP (Closed)
		Push DOWN	DOWN (Open)

5. CHECK MANUAL UP/DOWN FUNCTION VIA TRANSMITTER

- (a) Check that the front power windows and slide power windows operate as follows when operating the transmitter.

Standard:

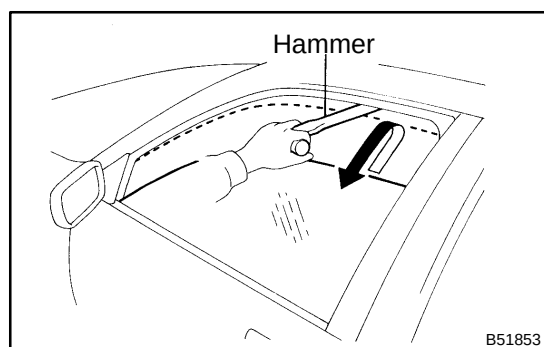
Condition	Transmitter Operation	Power Window
- No key in ignition key cylinder - Any door UNLOCK	Press UNLOCK switch for 2.4 sec. or more	All power windows go DOWN
- No key in ignition key cylinder - All doors CLOSE - All doors LOCK	Press LOCK switch for 2.4 sec. or more	All power windows go UP

HINT:

For a sign to start operation, the wireless door lock buzzer sounds once (answer-back).

6. CHECK POWER WINDOW OPERATION FUNCTION AFTER IGNITION SWITCH OFF

- (a) When both of the following conditions are fulfilled, check that the power windows can be operated even after the ignition switch is turned OFF.
- Within 45 seconds after the ignition switch is turned OFF
 - The front doors are closed

**7. CHECK JAM PROTECTION FUNCTION (DRIVER SIDE)****HINT:**

The jam protection function prevents any part of your body from getting caught by accident between the door frame and the door glass during power window operation.

- (a) Check that the door glass goes down by approximately 50 mm (1.97 in.) right when something gets caught between the door frame and door glass during power window operation. However, when the opening between the door frame and the door glass is less than 200 mm (7.87 in.), the door glass keeps going down until the opening reaches 200 mm (7.87 in.) and stops there.

Operative conditions:

- AUTO UP
- AUTO UP operation after the ignition switch OFF
- MANUAL UP operation after the ignition switch OFF

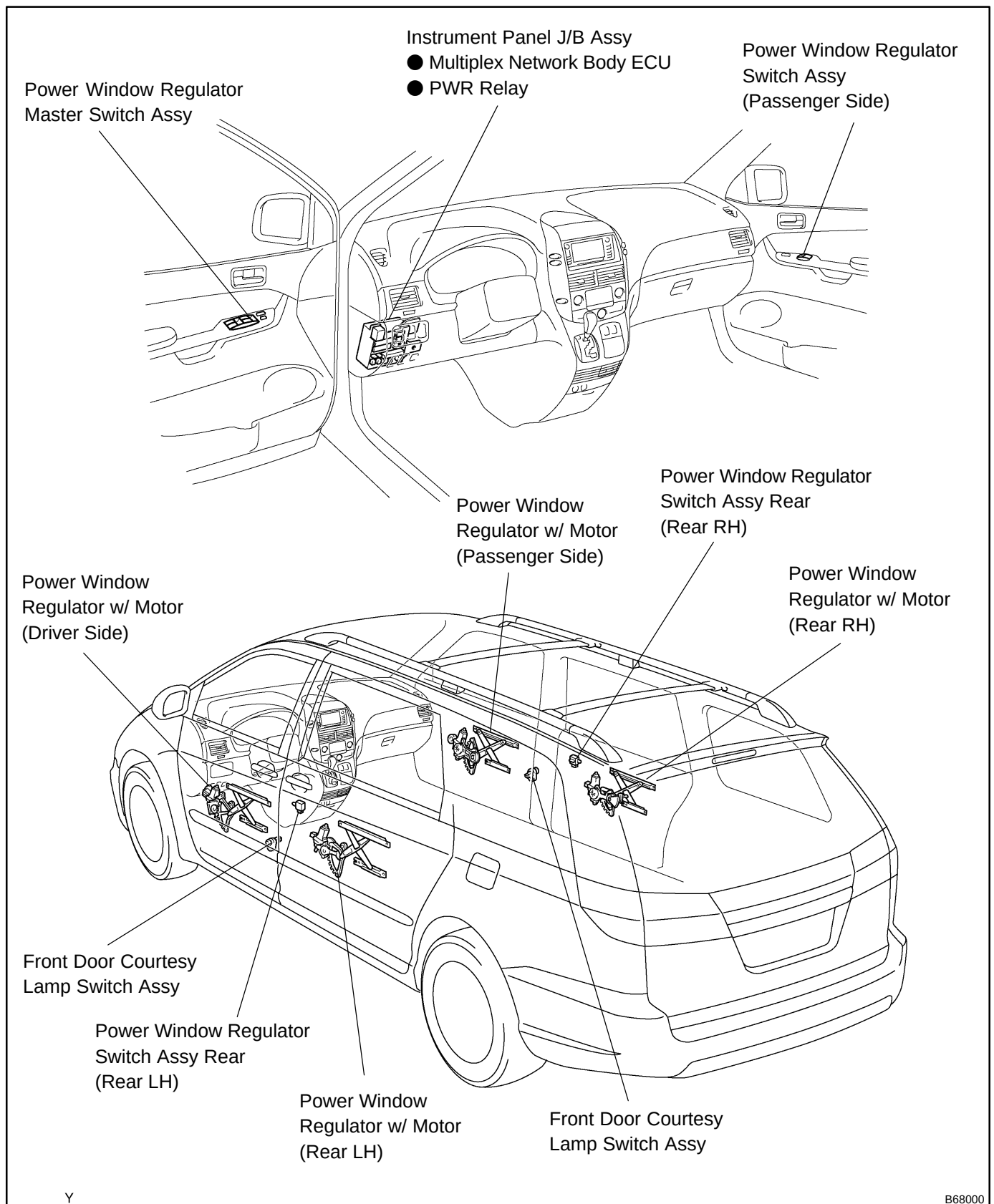
8. CHECK POWER WINDOW FAIL-SAFE FUNCTION

- (a) If there is a malfunction in the pulse sensor of the power window motor, the power window function will be restricted to partial operation.

Power Window Function (Switch Operation)	Ignition Switch ON	Ignition Switch OFF
Manual UP (Pull halfway up)	Disabled*	Disabled
Manual DOWN (Push halfway down)	Operative	Disabled
AUTO UP (Pull fully up)	Disabled	Disabled
AUTO DOWN (Push fully down)	Disabled	Disabled

*: However, manual UP function of the power window is operative when fully pulling up the power window switch.

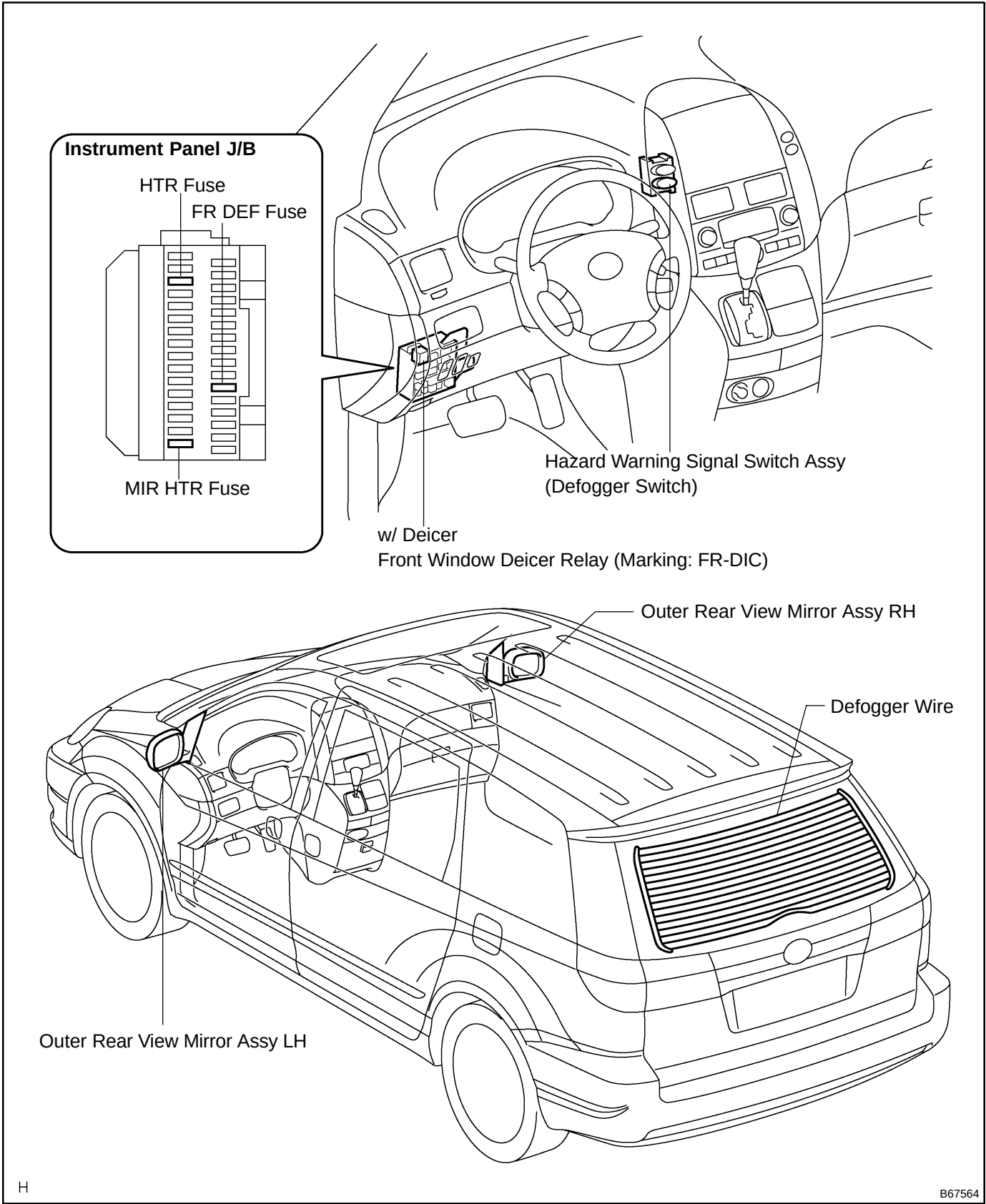
LOCATION

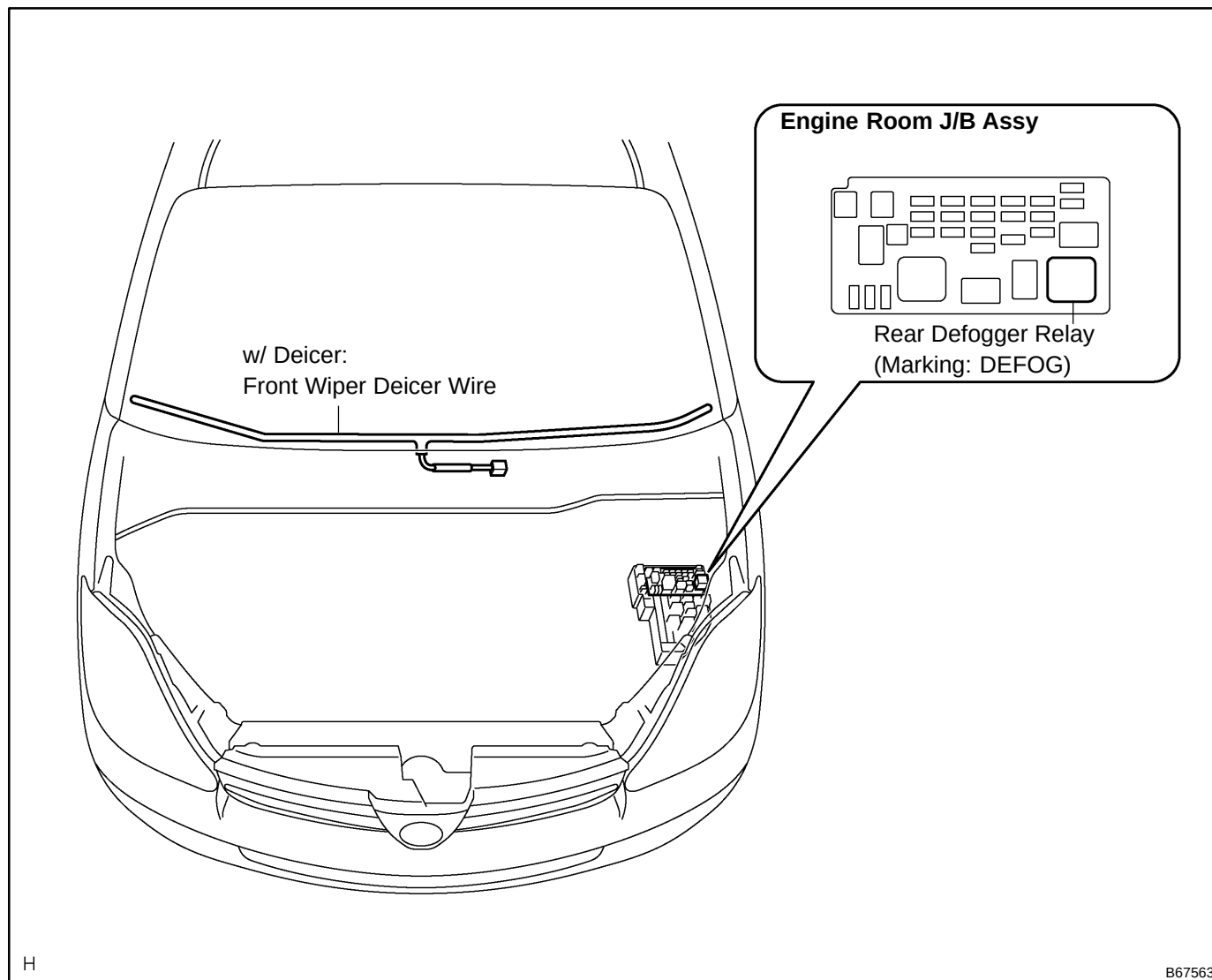


WINDOW DEFOGGER SYSTEM

LOCATION

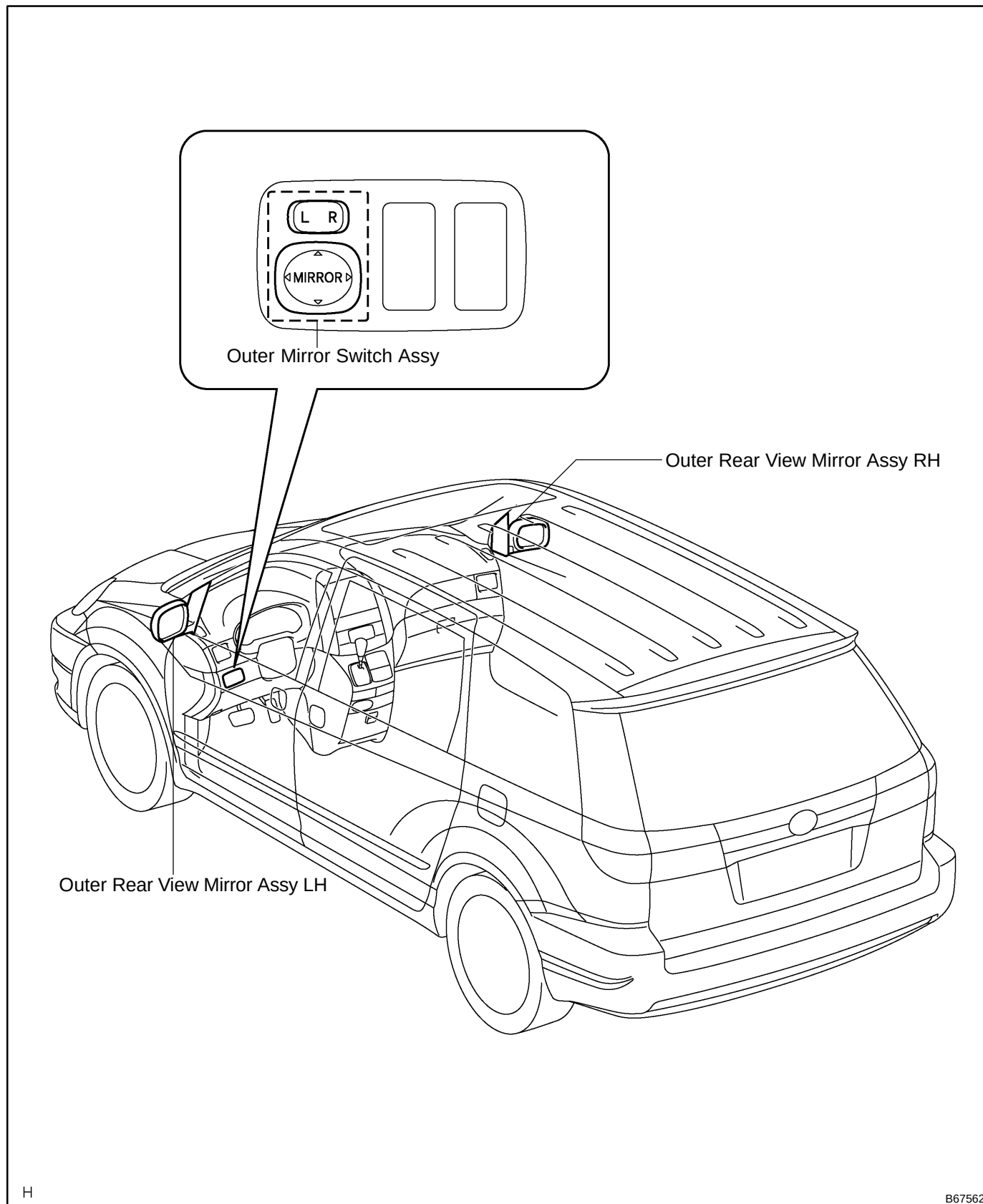
700SQ-02





POWER MIRROR CONTROL SYSTEM LOCATION

700ST-01



PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
w/ Deicer: Front window deicer does not operate. (indicator light ON)	1. FR DEF fuse 2. Front window deicer relay 3. Front window deicer wire 4. wire harness	68-1 68-1 70-32 
w/ Deicer: Front window deicer does not operate. (indicator light OFF)	1. FR DEF fuse 2. Front window deicer relay 3. Front window deicer wire 4. Hazard warning signal switch assy (Defogger switch) 5. Wire harness	68-1 68-1 70-32 70-32 
Rear window defogger does not operate (Indicator light ON)	1. HTR fuse 2. Rear window defogger relay 3. Rear window defogger wire 4. wire harness	68-1 68-1 
Rear window defogger does not operate (Indicator light OFF)	1. HTR fuse 2. Rear window defogger relay 3. Hazard warning signal switch assy (Defogger switch) 4. Rear window defogger wire 5. Wire harness	68-1 68-1 70-32 70-32 
w/ Mirror Heater: Mirror heater does not operate (Indicator light ON)	1. MIR HTR fuse 2. Outer rear view mirror assy 3. Wire harness	68-1 70-32 
w/ Mirror Heater: Mirror heater does not operate (Indicator light OFF)	1. MIR HTR fuse 2. Hazard warning signal switch assy (Defogger switch) 3. Outer rear view mirror assy 4. Wire harness	68-1 70-32 70-32 

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
Mirror does not operate	1. Outer mirror switch assy	70-38
	2. Outer rear view mirror assy	70-38
	3. Wire harness	-
Mirror operates abnormally	1. Outer mirror switch assy	70-38
	2. Outer rear view mirror assy	70-38
	3. Wire harness	-

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
All power windows do not operate	6. PWR fuse 7. Power window relay (Marking: P/W) 8. Ignition switch 9. Power window regulator master switch 10. Power window regulator motor assy 11. Wire harness	- 70-6 80-2 70-6 70-6 -
Only one power window does not operate	1. Power window regulator master switch 2. Power window regulator switch 3. Power window regulator motor assy 4. Wire harness	70-6 70-6 70-6 -
AUTO DOWN function does not operate	1. Power window regulator master switch 2. Power window regulator motor assy	70-6 70-6
Window lock system does not operate	1. Power window master switch	70-6
Window cannot be operated after ignition switch OFF	1. Front door courtesy lamp switch assy 2. Multiplex network body ECU	70-6 -

RESET

NOTICE:

- **Resetting the driver's power window motor (initializing the pulse sensor) is necessary when the battery terminal is disconnected; when the master switch, wire harness, power window regulator and power window motor are replaced or removed/installed; or when the fuses are replaced. AUTO operation function, jam protection function and remote operation function via the power window master switch do not operate without resetting.**
- **If the AUTO switch (driver side switch) of the master switch has been continuously operated for a long time, the power window motor will stop so that no additional load can be applied to the motor. Continuing to operate the switch even after the motor has stopped will cause the switch to blink while restricting the AUTO UP/DOWN function and the remote UP/DOWN function. If this happens, reset the motor again after several minutes have passed.**
- **Whenever disconnecting the battery terminal, reset all the other systems besides the power window control system.**

1. RESET POWER WINDOW REGULATOR MOTOR (DRIVER SIDE)

- (a) Turn the ignition switch ON.
- (b) Halfway open the power window by pressing the master switch.
- (c) Fully pull up the master switch until the power window is fully closed and continue to hold the switch for approx. 1 second after the power window is fully closed.
- (d) Check that the AUTO UP/DOWN function operates normally.

If operation is normal, reset operations have been completed at this time. If not normal, follow steps (e) to (g) below.

- (e) Disconnect the negative battery terminal for 10 seconds.
- (f) Connect the battery terminal.
- (g) Perform the above steps (a) to (d) again.

If operation is normal, reset operations have been completed at this time. If not normal, follow steps (h) to (k) below.

- (h) Turn the ignition switch ON.
- (i) Halfway open the power window by pressing the master switch.
- (j) Fully pull up the master switch until the power window is fully closed and continue to hold the switch for approx. 12 seconds after the power window is fully closed.
- (k) Check that the AUTO UP/DOWN function operates normally.

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.

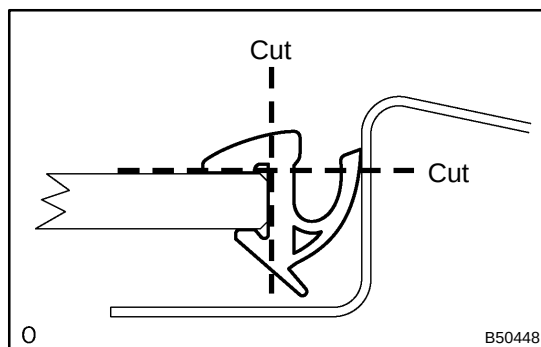
1. REMOVE ROOF HEADLINING ASSY (See page 76-27)

- (a) Remove the front door weatherstrip LH.
- (b) Remove the front door weatherstrip RH.
- (c) Remove the front pillar garnish LH.
- (d) Remove the front pillar garnish RH.
- (e) Remove the LH visor.
- (f) Remove the RH visor.
- (g) Remove the assist grip.
- (h) Remove the roof console box.
- (i) Remove the 2 visor holders.
- (j) Remove the roof console box assy.
- (k) w/ Sliding roof:
Remove the sun roof opening trim moulding.
- (l) Remove the roof headlining assy.

2. REMOVE INNER REAR VIEW MIRROR ASSY (See page 70-41)

3. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY (See page 66-8)

- (a) Remove the 2 front wiper arm head caps.
- (b) Remove the FR wiper arm LH.
- (c) Remove the FR wiper arm RH.
- (d) Remove the front fender to cowl side seal LH.
- (e) Remove the front fender to cowl side seal RH.
- (f) Remove the cowl top ventilator louver.



4. REMOVE WINDSHIELD MOULDING OUTER UPPER
 - (a) Using a knife, cut off the moulding, as shown in the illustration.

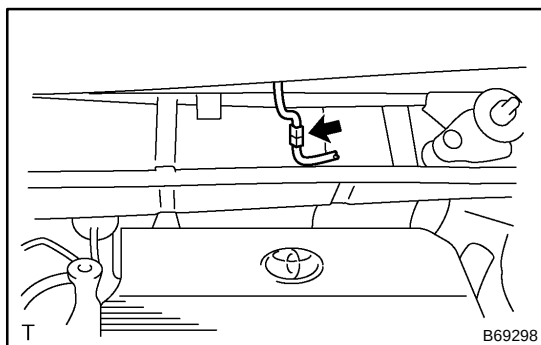
NOTICE:

Do not damage the body with the knife.

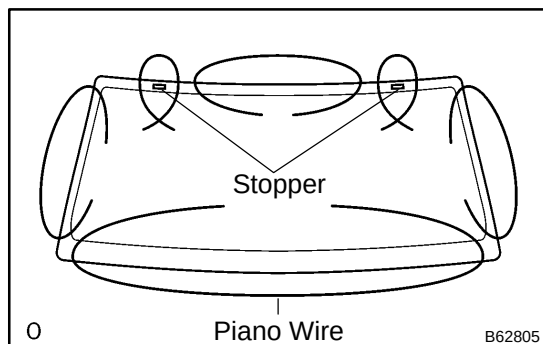
- (b) Remove the remaining moulding.

HINT:

When removing, make a partial cut, then pull and remove it by hand.

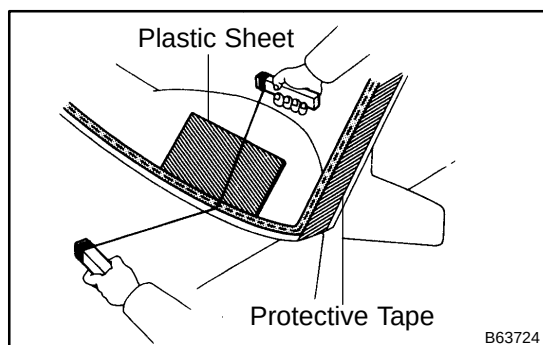


- (c) w/ Deicer:
Disconnect the connector, as shown in the illustration.



5. REMOVE WINDSHIELD GLASS

- (a) Pass a piano wire between the vehicle body and glass from the interior.
- (b) Tie both wire ends to wooden blocks or similar objects.



HINT:

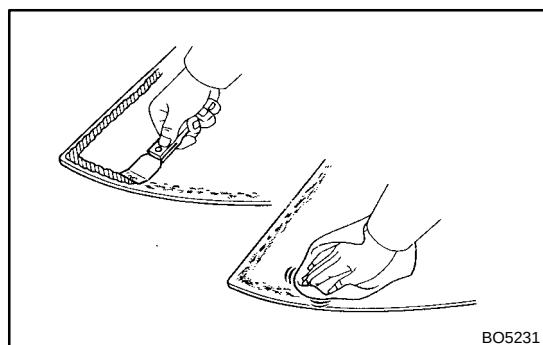
Apply protective tape to the outer surface to prevent the surface from being scratched.

NOTICE:

- When separating the glass, take care not to damage the paint and the interior and exterior ornaments.
 - To prevent the safety pad from being scratched when removing the glass, place a plastic sheet between the piano wire and safety pad.
- (c) Cut off the adhesive by pulling piano wire around the glass.
 - (d) Disengage the stoppers.
 - (e) Using a suction cup, remove the glass.

NOTICE:

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

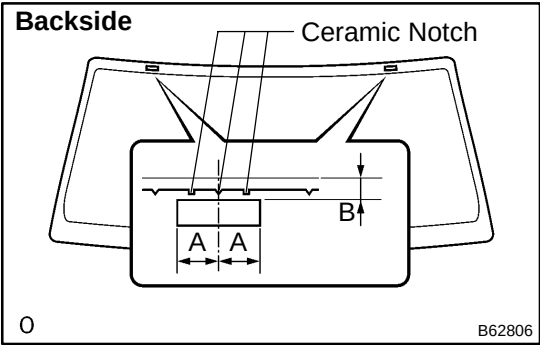


6. CLEAN WINDSHIELD GLASS

- (a) Using a scraper, remove the damaged stoppers, dam and adhesive sticking to the glass.
- (b) Clean the outer circumference of the glass with white gasoline.

NOTICE:

Do not touch the glass surface after cleaning it.



7. INSTALL WINDSHIELD GLASS STOPPER NO.2

- (a) Coat the installation part of the stopper with Primer G.

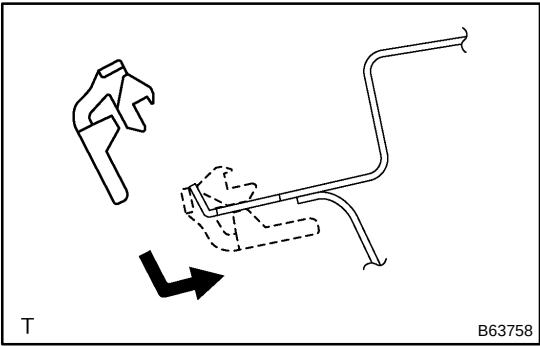
NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
- Do not keep any of the opened Primer G for later use.
- Do not apply too much primer.

- (b) Install 2 new stoppers onto the glass, as shown in the illustration.

Dimension:

A	40.0 mm (1.575 in.)
B	7.7 mm (0.303 in.)



8. INSTALL WINDSHIELD GLASS STOPPER NO.1

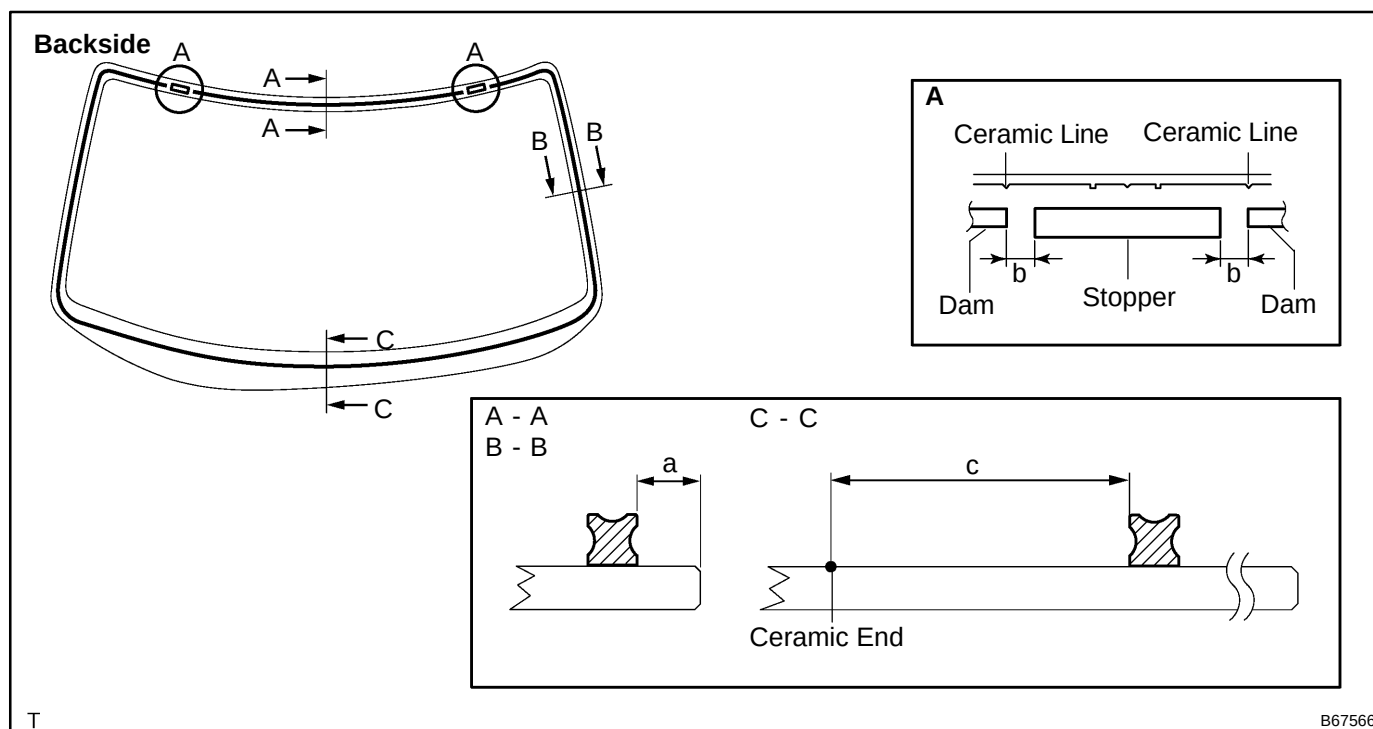
- (a) Install 2 new stoppers to the vehicle body, as shown in the illustration.

9. INSTALL DAM, WINDOW GLASS ADHESIVE

- (a) Coat the installation part of the window glass adhesive dam with Primer G.

NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
 - Do not apply too much primer.
- (b) Install a new dam, applying double-sided tape all the way around the glass except where the dam is installed, as shown in the illustration.

**Dimension:**

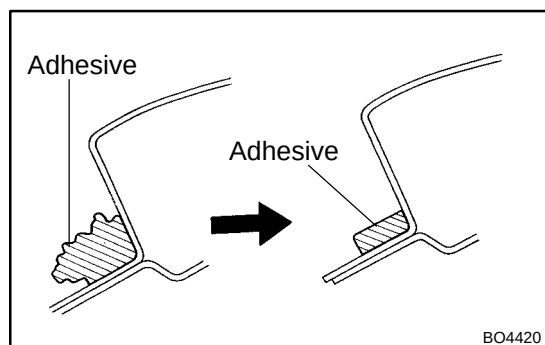
a	7.0 mm (0.276 in.)
b	6.0 mm (0.236 in.)
c	35.0 mm (1.378 in.)

10. INSTALL WINDSHIELD MOULDING OUTER UPPER

- (a) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
 - Do not coat the adhesive with Primer G.
 - Do not keep any of the opened Primer G for later use.
- (b) Install the moulding.

**11. INSTALL WINDSHIELD GLASS**

- (a) Clean and shape the contact surface of the vehicle body.
- (1) Using a knife, cut away any rough adhesive on the contact surface of the vehicle body to ensure the appropriate surface shape.

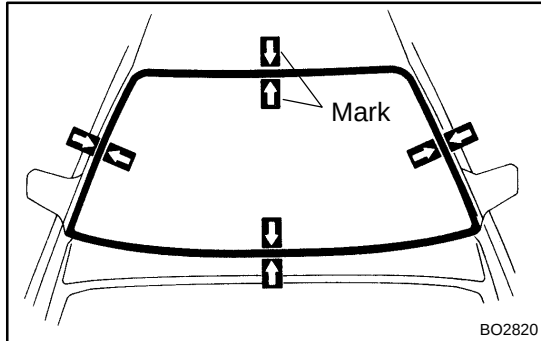
HINT:

Leave as much adhesive on the vehicle body as possible.

- (2) Clean the contact surface of the vehicle body with a piece of shop rag saturated with cleaner.

HINT:

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



- (b) Position the glass.
 - (1) Using a suction cup, place the glass in the correct position.
 - (2) Check that the whole contact surface of the glass rim is perfectly even.
 - (3) Place reference marks between the glass and vehicle body.

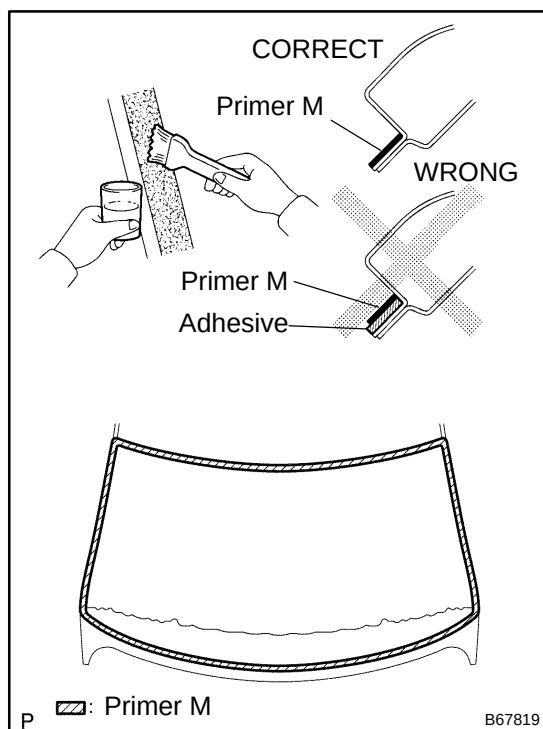
NOTICE:

Check that the stoppers are attached to the vehicle body correctly.

HINT:

When reusing the glass, check and correct the reference mark positions.

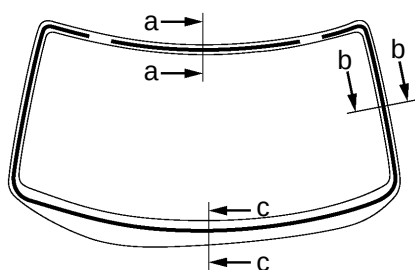
- (4) Remove the glass.



- (c) Using a brush, coat the exposed part of the vehicle body with Primer M.

NOTICE:

- **Allow the primer coating to dry for 3 minutes or more.**
- **Do not coat the adhesive with Primer M.**
- **Do not keep any of the opened Primer M for later use.**

Backside

a - a

Primer G

b - b

Primer G

c - c

Primer G

T

B67567

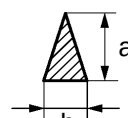
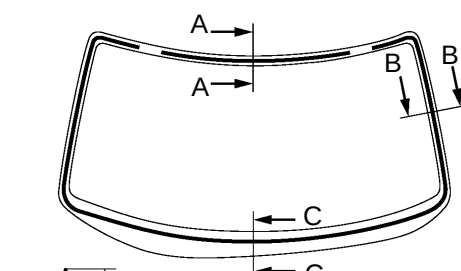
- (d) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

HINT:

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

NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
- Do not keep any of the opened Primer G for later use.

Backside

A - A

B - B

C - C

Ceramic End

T

B67568

- (e) Apply adhesive.

Adhesive: Part No. 08850-00801 or equivalent

- (1) Cut off the tip of the cartridge nozzle, as shown in the illustration.

HINT:

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

Tackfree time:

Temperature	Tackfree Time
35°C (95°F)	15 minutes
20°C (68°F)	100 minutes
5°C (41°F)	8 hours

- (2) Load the sealer gun with the cartridge.
 (3) Coat the glass with adhesive, as shown in the illustration.

Dimension:

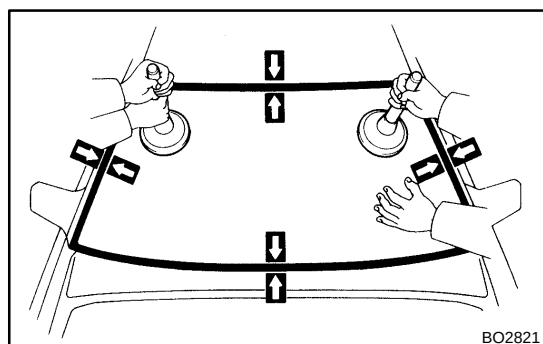
a	12.0 mm (0.472 in.)
b	8.0 mm (0.315 in.)
c	3.0 mm (0.118 in.)
d	40.0 mm (1.575 in.)

- (f) Install the glass.

- (1) Using a suction cup, position the glass so that the reference marks are aligned, and press it in gently along the rim.

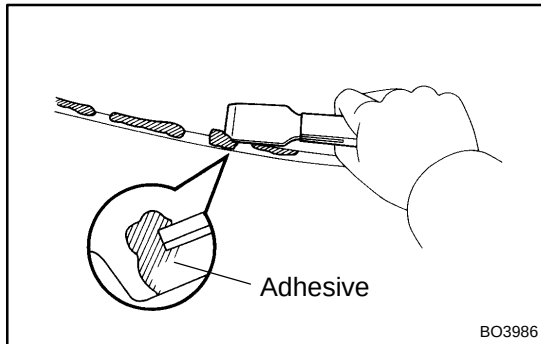
NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
- Check that the stoppers are attached to the vehicle body correctly.

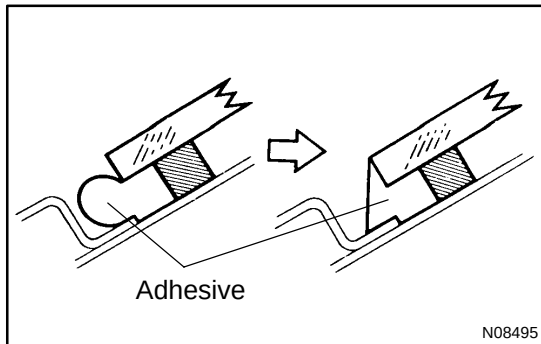


B02821

- **Check the clearance between the vehicle body and glass.**
- (2) Lightly press the front surface of the glass to ensure a close fit.



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



HINT:

Apply adhesive onto the glass rim.

NOTICE:

Take care not to drive the vehicle for the time described in the table below.

Minimum time:

Temperature	Minimum time prior to driving vehicle
35°C (95°F)	1.5 hours
20°C (68°F)	5 hours
5°C (41°F)	24 hours

12. INSPECT FOR LEAKS AND REPAIR

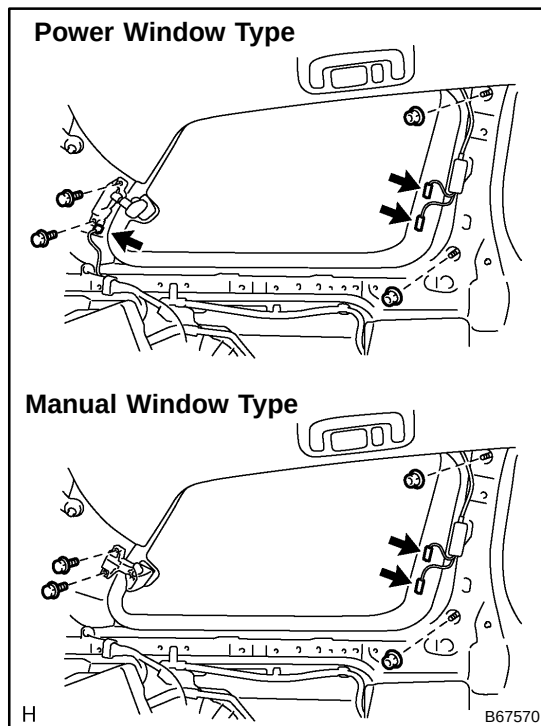
- (a) Conduct a leak test after the adhesive has completely hardened.
- (b) Seal any leaks with auto glass sealer.

REPLACEMENT

HINT:

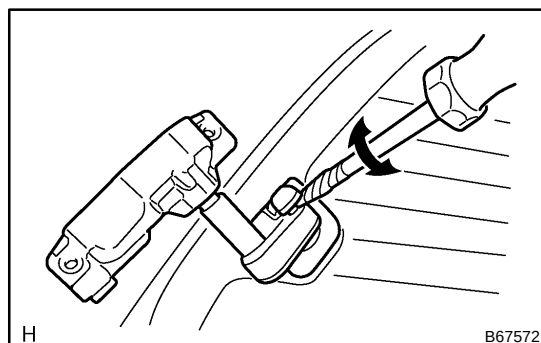
- The installation is in the reverse order of the removal.
- On the RH side, use the same procedures as on the LH side.

- 1. REMOVE REAR NO.1 SEAT ASSY LH (See page 72-37)**
- 2. REMOVE RR WINDOW SIDE GARNISH ASSY LH (See page 76-27)**
 - (a) Rear door opening trim weatherstrip LH
 - (b) Remove the rope hooks.
 - (c) Remove the back door scuff plate.
 - (d) Remove the roof headlining garnish rear.
 - (e) Remove the rear door scuff plate.
 - (f) Remove the quarter trim panel assy LH.
 - (g) Remove the RR window side garnish assy No.2 LH.
 - (h) Remove the RR window side garnish assy LH.



3. REMOVE SIDE WINDOW ASSY REAR LH

- (a) Disconnect the connectors.
- (b) Remove the 2 nuts and 2 bolts.
Torque:
Bolt: 5.5 N·m (56 kgf·cm, 49 in·lbf)
- (c) Remove the window.



4. REMOVE POWER VENT WINDOW MOTOR ASSY LH (POWER WINDOW TYPE)

- (a) Using a screwdriver, remove the window motor.

5. REMOVE QUARTER WINDOW LOCK ASSY LH (MANUAL WINDOW TYPE)

- (a) Remove the screw and window lock.

6. REMOVE SIDE REAR WINDOW WEATHERSTRIP LH

REPLACEMENT

HINT:

The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.

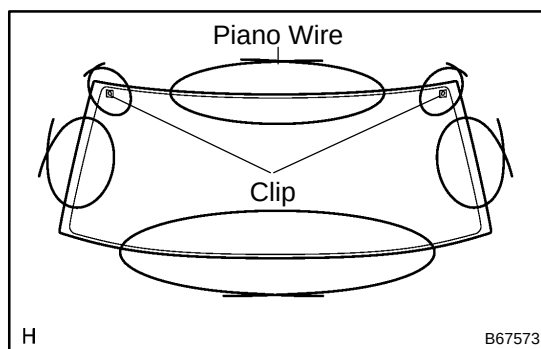
1. REMOVE BACK DOOR SERVICE HOLE PLATE (See page 75-91 or 75-108)

- (a) Remove the back door garnish center.
- (b) Remove the back door side garnish LH.
- (c) Remove the back door side garnish RH.
- (d) Remove the back door strap cover.
- (e) Remove the back door pull strap.
- (f) Remove the back door rim board assy.
- (g) Remove the back door service hole plate.

2. REMOVE REAR SPOILER COVER (w/ REAR SPOILER) (See page 76-21)

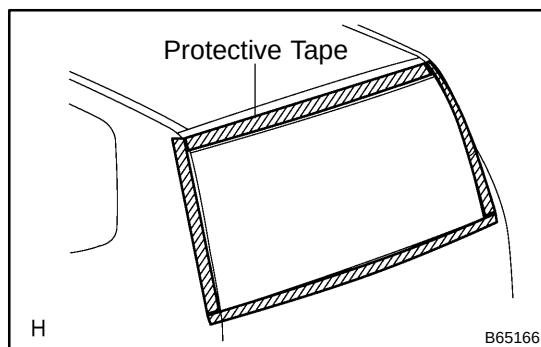
3. REMOVE REAR WIPER MOTOR AND BRACKET ASSY (See page 66-11)

- (a) Remove the wiper arm head cap.
- (b) Remove the rear wiper arm assy.
- (c) Remove the wiper motor and bracket assy.



4. REMOVE BACK DOOR GLASS

- (a) Pass a piano wire between the body and glass from the interior.
- (b) Tie both wire ends to wooden blocks or similar objects.



HINT:

Apply protective tape to the outer surface to prevent the surface from being scratched.

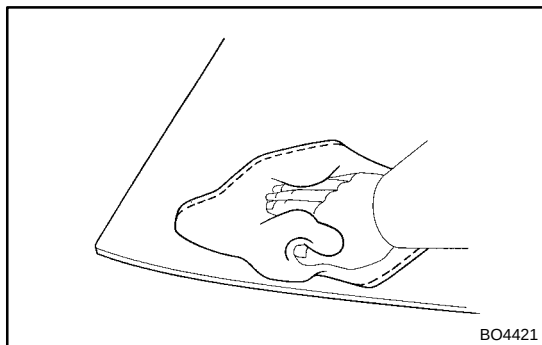
NOTICE:

When separating the glass, take care not to damage the paint and interior and exterior ornaments.

- (c) Cut off the adhesive by pulling piano wire around it.
- (d) Using a suction rubber, remove the glass.

NOTICE:

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

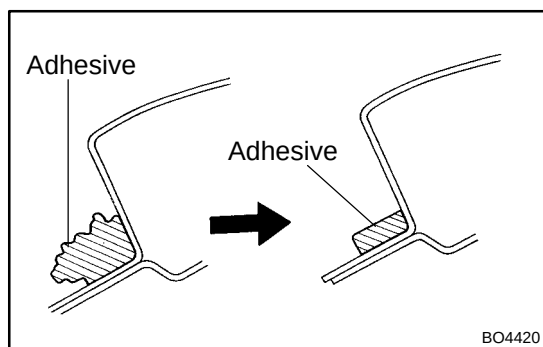


5. CLEAN BACK DOOR GLASS

- (a) Clean the outer circumference of the glass white gaso-line.

NOTICE:

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



6. INSTALL BACK DOOR GLASS

- (a) Clean and shape the contact surface of the vehicle body.
- (1) Using a knife, cut away any rough adhesive on the contact surface of the body to ensure the appropriate surface shape.

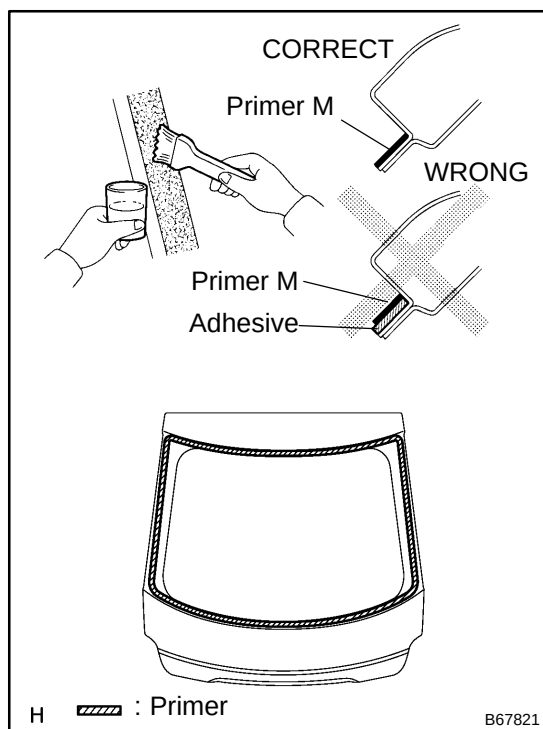
HINT:

Leave as much adhesive on the body as possible.

- (2) Clean the contact surface of the body with a shop rag saturated with cleaner.

HINT:

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



- (b) Using a brush, coat the exposed part of the body on the vehicle side with Primer M.

NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
- Do not coat the adhesive with Primer M.
- Do not keep any of the opened Primer M for later use.

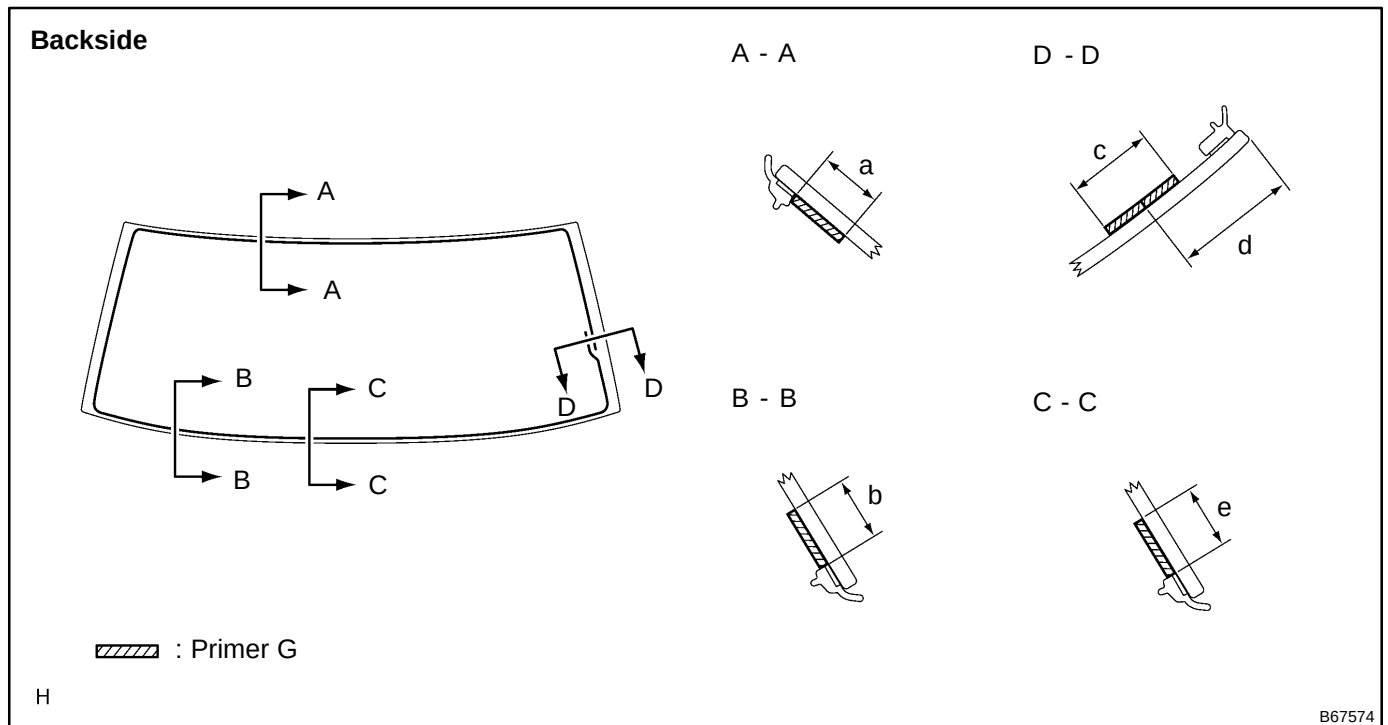
(c) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

HINT:

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

NOTICE:

- Allow the primer coating to dry for 3 minutes or more.
- Do not keep any of the opened Primer G for later use.



Dimensions:

a	15.0 mm (0.591 in.)
b	15.0 mm (0.591 in.)
c	20.0 mm (0.787 in.)
d	30.0 mm (1.181 in.)
e	15.0 mm (0.591 in.)

(d) Apply adhesive.

Adhesive: Part No. 08850-00801 or equivalent

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

HINT:

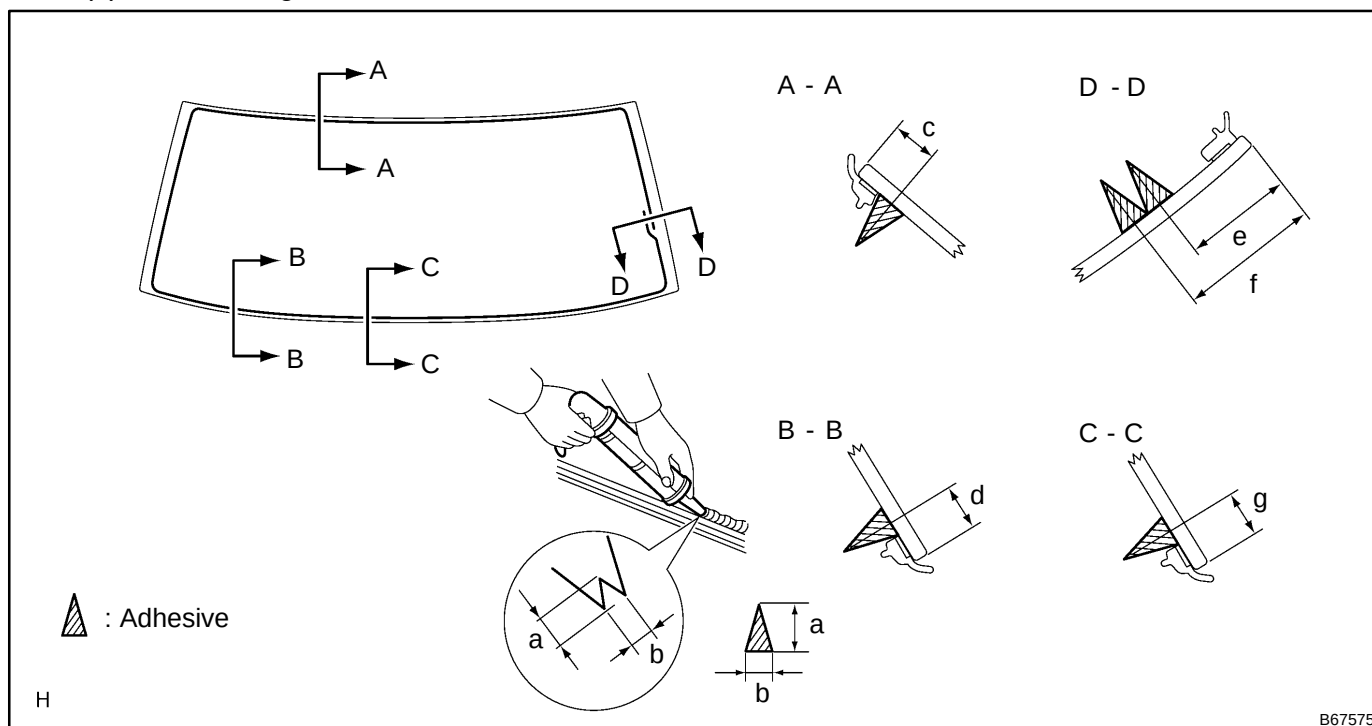
After cutting off the tip, use all adhesive within the time described in the table below.

Tackfree time:

Temperature	Tackfree Time
35°C (95°F)	15 minutes
20°C (68°F)	100 minutes
5°C (41°F)	8 hours

(2) Load the sealer gun with the cartridge.

(3) Coat the glass with adhesive, as shown in the illustration.



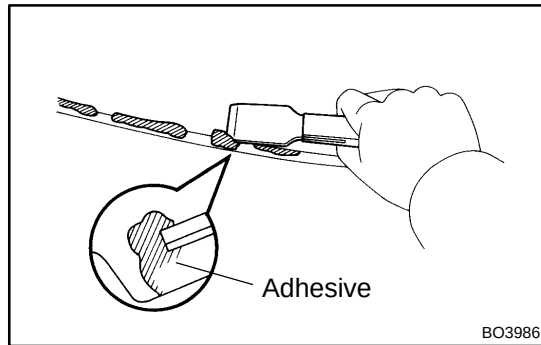
Dimensions:

a	12.0 mm (0.472 in.)
b	8.0 mm (0.315 in.)
c	11.0 mm (0.433 in.)
d	11.0 mm (0.433 in.)
e	30.0 mm (1.181 in.)
f	38.0 mm (1.496 in.)
g	11.0 mm (0.433 in.)

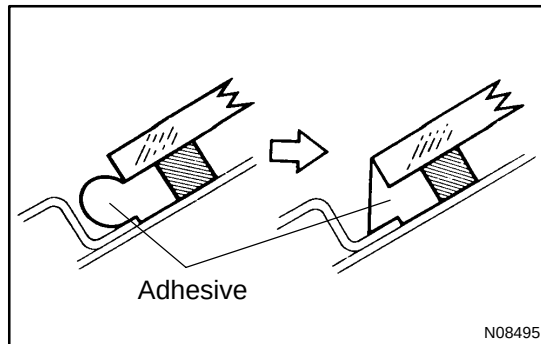
- (e) Install the glass to the body.
- (1) Hold the back window glass in place securely with tape or equivalent to the body until the adhesive has hardened.

NOTICE:

- Allow the primer coating 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.
- (2) Lightly press the front surface of the glass to ensure a close fit.



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

**HINT:**

Apply adhesive onto the glass rim.

NOTICE:

Take care not to drive the vehicle for the time described in the table below.

Minimum time:

Temperature	Minimum time prior to driving vehicle
35° C (95° F)	1.5 hours
20° C (68° F)	5 hours
5° C (41° F)	24 hours

7. INSPECT FOR LEAKS AND REPAIR

- (a) Conduct a leak test after the adhesive has completely hardened.
- (b) Seal any leaks with auto glass sealer.

OUTER REAR VIEW MIRROR ASSY LH

REPLACEMENT

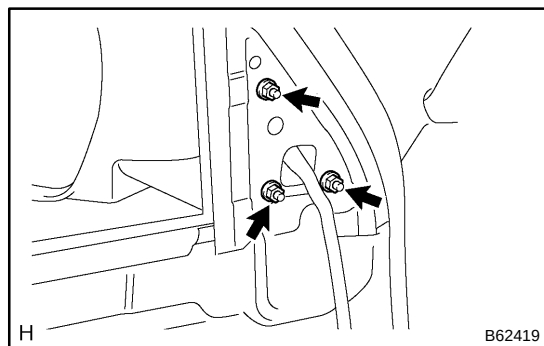
700SY-01

HINT:

- The installation is in the reverse order of the removal. However, when there is a special point concerning the installation, it is indicated.
- On the RH side, use the same procedures as on the LH side.

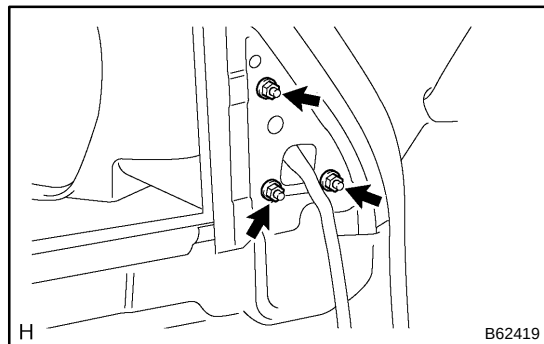
1. REMOVE FRONT DOOR SERVICE HOLE COVER LH (See page 75-8)

- Remove the front lower frame bracket garnish LH.
- Remove the front door inside handle bezel plug LH.
- Remove the front armrest base panel upper LH.
- Remove the power window regulator master switch.
- Remove the front door trim board LH.
- Remove the front door service hole cover LH.



2. REMOVE OUTER REAR VIEW MIRROR ASSY LH

- Disconnect the connector.
- Remove the 3 nuts and mirror.



3. INSTALL OUTER REAR VIEW MIRROR ASSY LH

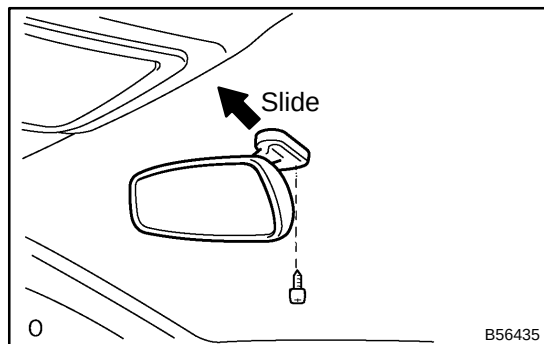
- Install the mirror with the 3 nuts.
Torque: 8.0 N·m (82 kgf·cm, 71 in.-lbf)
- Connect the connector.

INNER REAR VIEW MIRROR ASSY REPLACEMENT

700SW-01

HINT:

The installation is in the reverse order of the removal.

**1. REMOVE INNER REAR VIEW MIRROR ASSY**

- (a) w/ EC mirror:
Remove the inner rear view mirror cover.
- (b) w/ EC mirror:
Disconnect the connector.
- (c) Remove the screw.
- (d) Remove the inner rear view mirror assy as shown in the illustration.