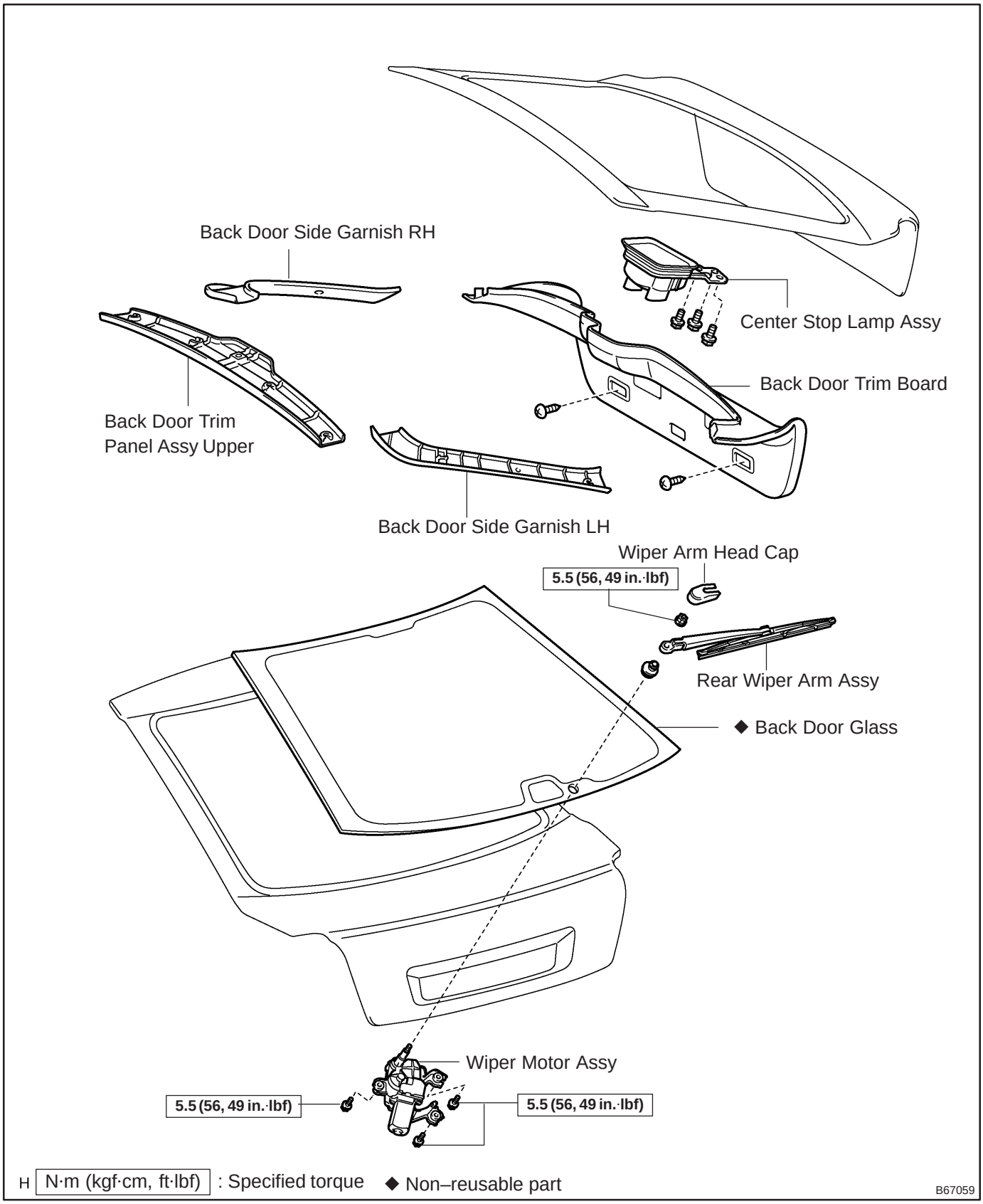
BACK DOOR GLASS (LIFTBACK MODELS)

COMPONENTS

700T7–01



H N·m (kgf·cm, ft·lbf) : Specified torque ◆ Non–reusable part

B67059

700T8–01

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.

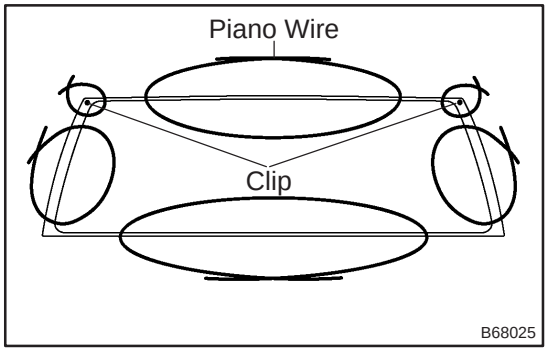
1. REMOVE BACK DOOR TRIM BOARD ASSY (See page 75–40)

(a) Remove the back door trim panel assy upper.
(b) Remove the back door side garnish LH.
(c) Remove the back door side garnish RH.
(d) Remove the back door trim board.

2. REMOVE CENTER STOP LAMP ASSY (See page 65–26)

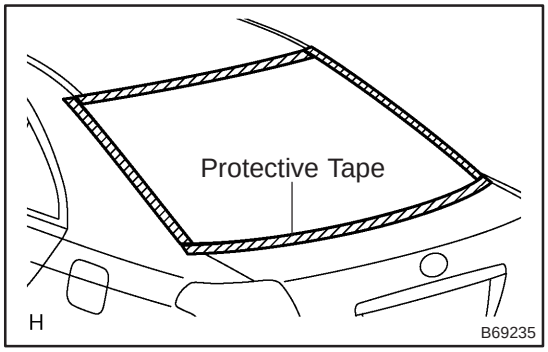
3. REMOVE REAR WIPER MOTOR ASSY (See page 66–17)

(a) Remove the wiper arm head cap.
(b) Remove the rear wiper arm.
(c) Remove the wiper motor.



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.

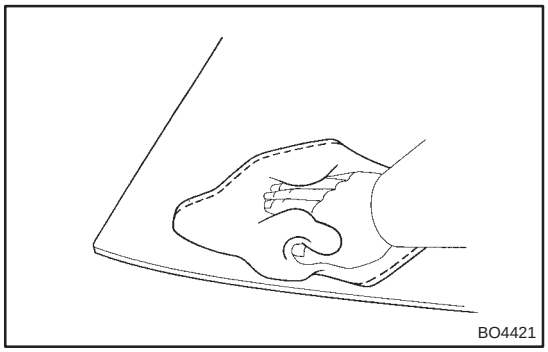
NOTICE:

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

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

NOTICE:

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

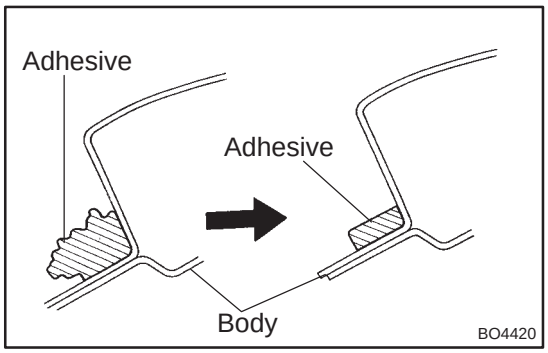


5. CLEAN BACK DOOR GLASS

(a) Clean the outer circumference of the glass with white gasoline.

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.

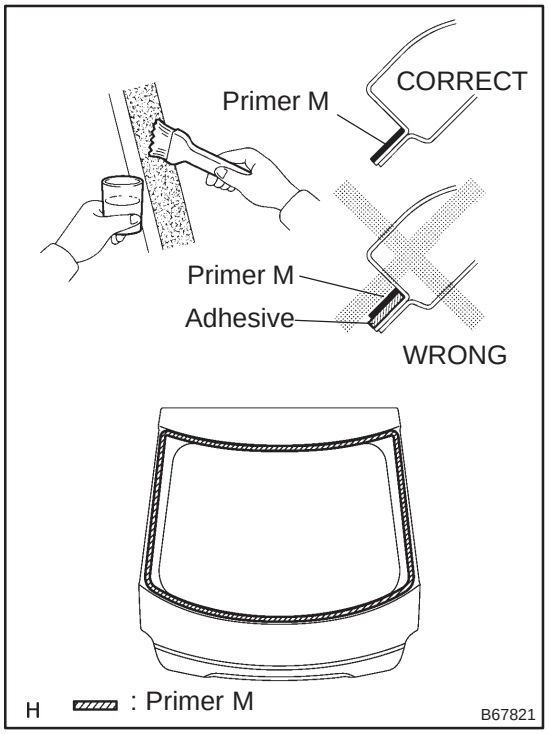
HINT:

Leave as much adhesive on the body as possible.

(2) Clean the contact surface of the body with a piece of 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.**

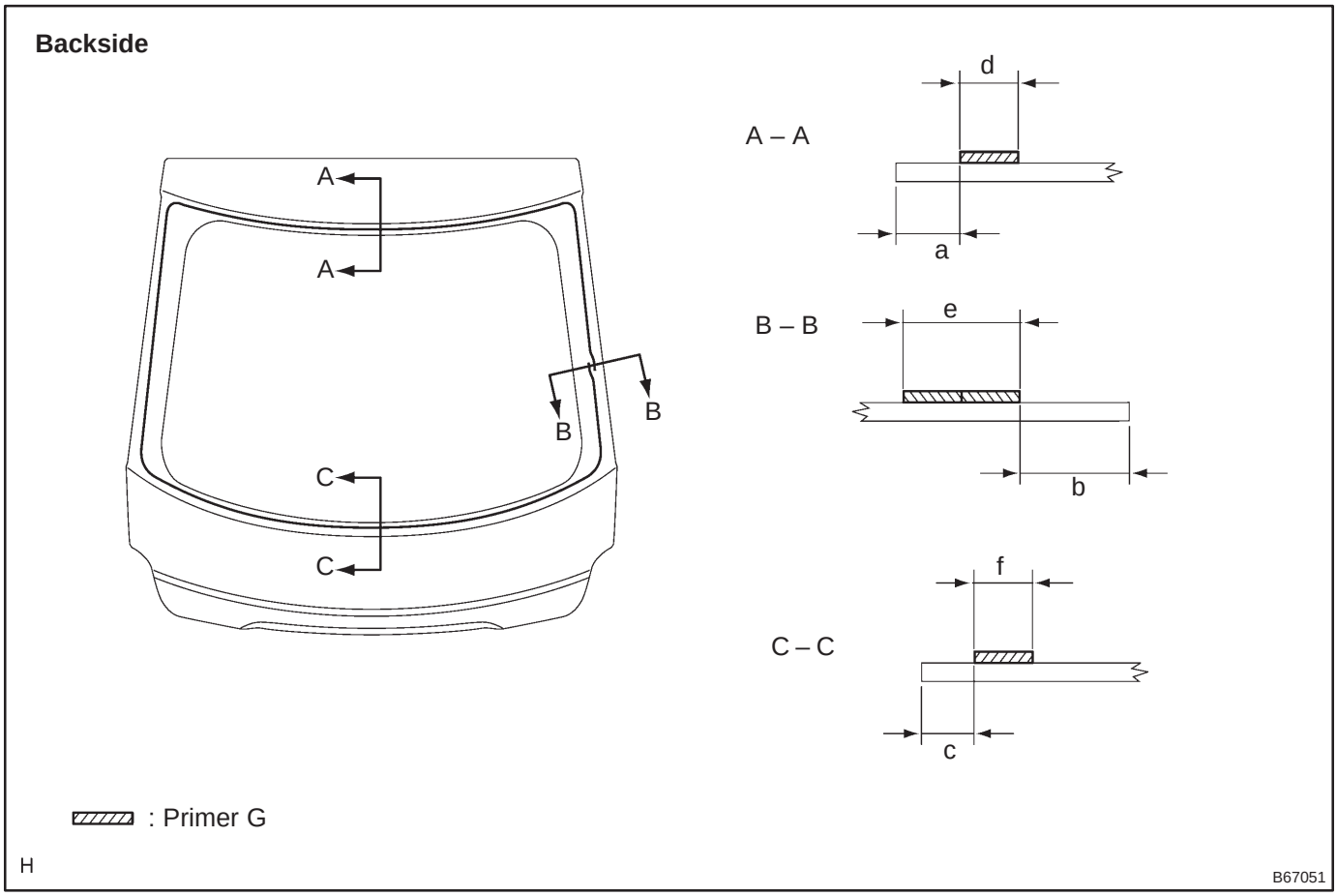
(c) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

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.**



Standard dimension:

a	10.2 mm (0.402 in.)
b	23.7 mm (0.933 in.)
c	9.1 mm (0.358 in.)
d	11.0 mm (0.433 in.)
e	14.0 mm (0.551 in.)
f	11.0 mm (0.433 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:

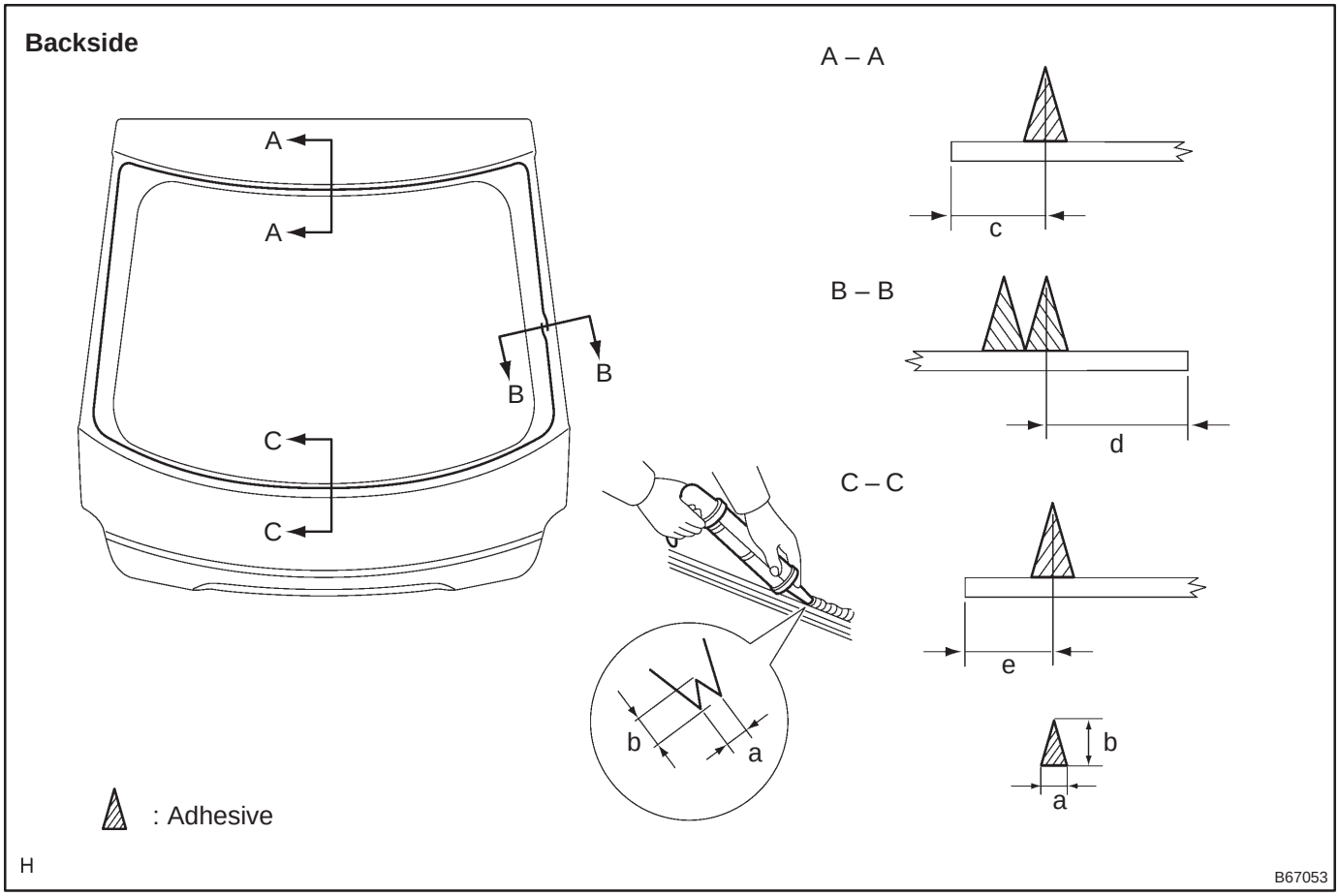
After cutting off the tip, use all adhesive within the time described in the table below.

Tackfree time:

Temperature	Tackfree Time
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 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.



Standard dimension:

a	12.0 mm (0.472 in.)
b	8.0 mm (0.315 in.)
c	14.2 mm (0.559 in.)
d	30.7 mm (1.209 in.)
e	13.1 mm (0.516 in.)

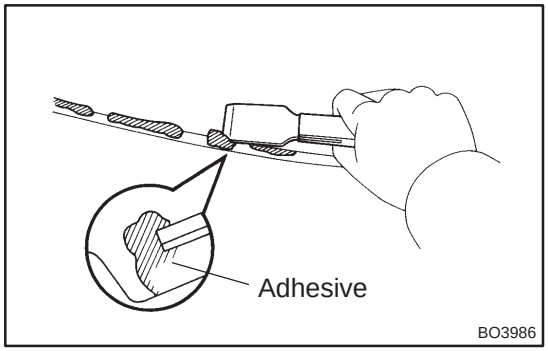
(e) Install the glass to the body.

(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 hour 30 minutes
20˚C (68˚F)	5 hours
5˚C (41˚F)	24 hours

7. INSPECT FOR LEAKS AND REPAIR

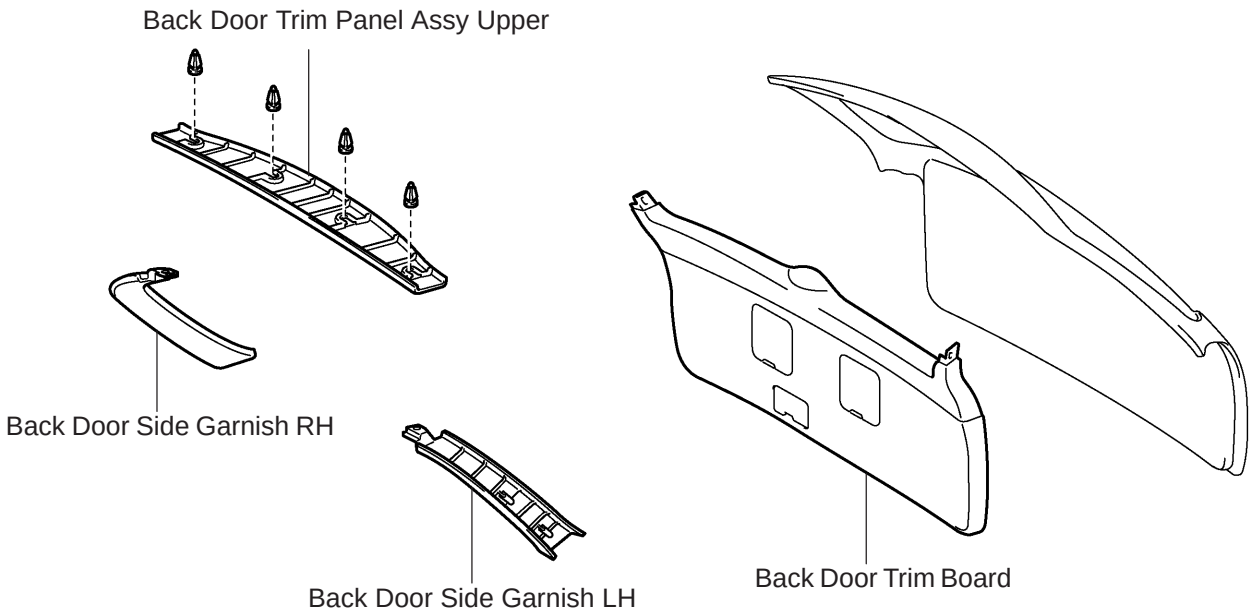
(a) Conduct a leak test after the adhesive has completely hardened.

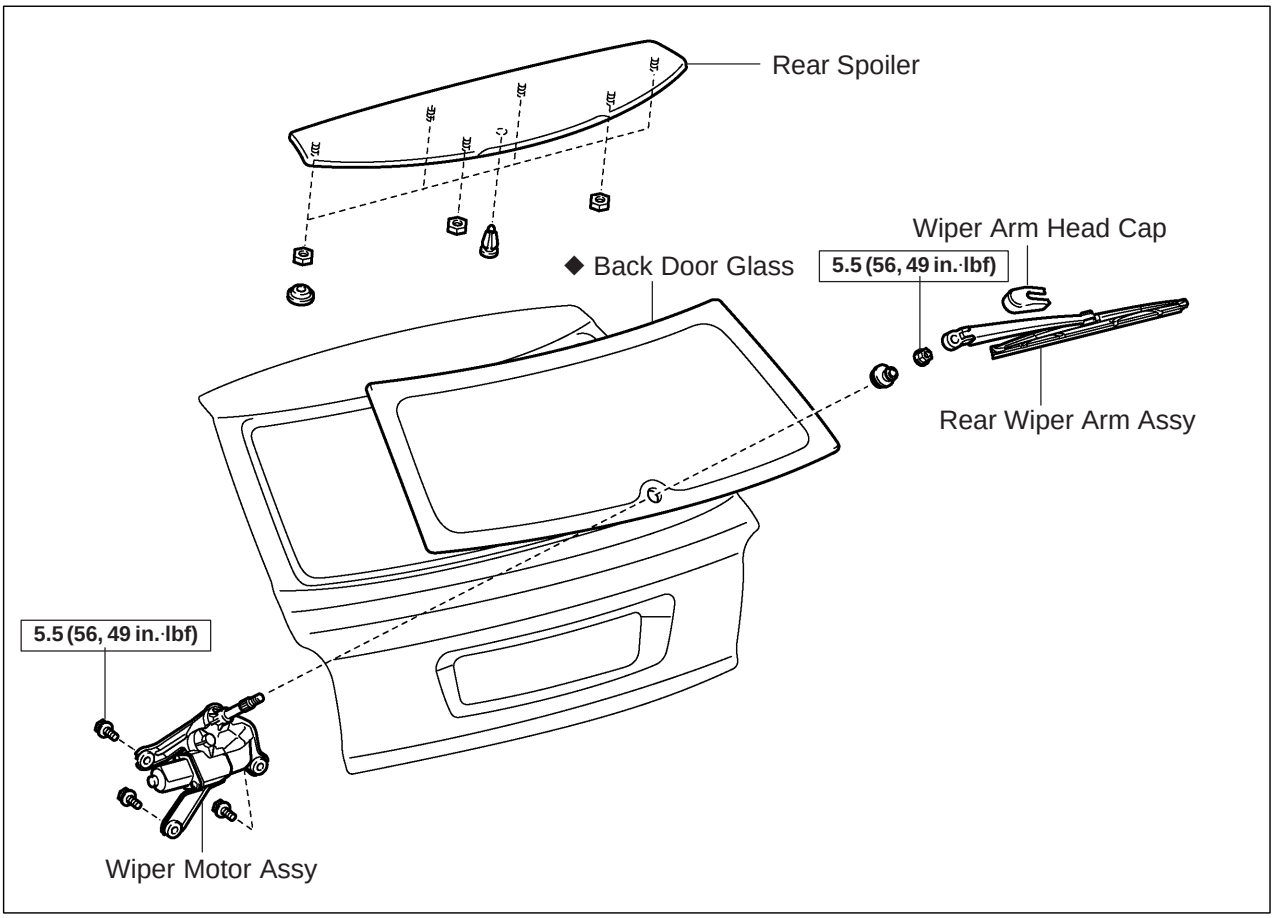
(b) Seal any leaks with auto glass sealer.

BACK DOOR GLASS (WAGON MODELS)

700T9–01

COMPONENTS





H N·m (kgf·cm, ft·lbf) : Specified torque ◆ Non–reusable part

B67062

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.

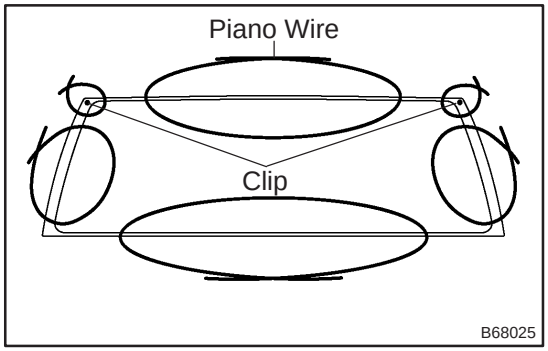
1. REMOVE BACK DOOR TRIM BOARD ASSY (See page 75–45)

(a) Remove the back door trim panel upper.
(b) Remove the back door side garnish LH.
(c) Remove the back door side garnish RH.
(d) Remove the back door trim board.

2. REMOVE REAR SPOILER (See page 76–30)

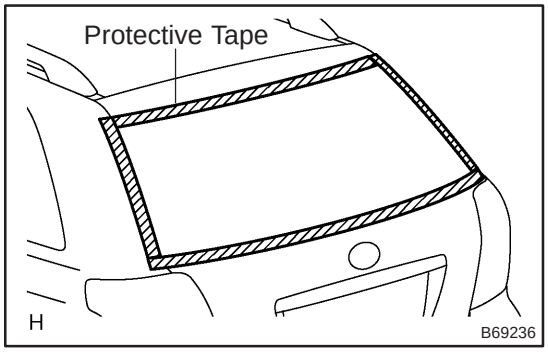
3. REMOVE REAR WIPER MOTOR ASSY (See page 66–17)

(a) Remove the wiper arm head cap.
(b) Remove the rear wiper arm.
(c) Remove the wiper motor.



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.

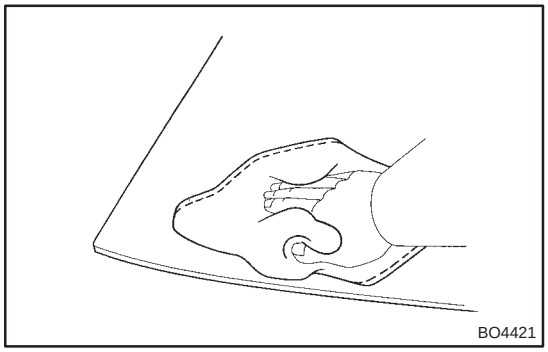
NOTICE:

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

(c) Cut off the adhesive by pulling the 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.

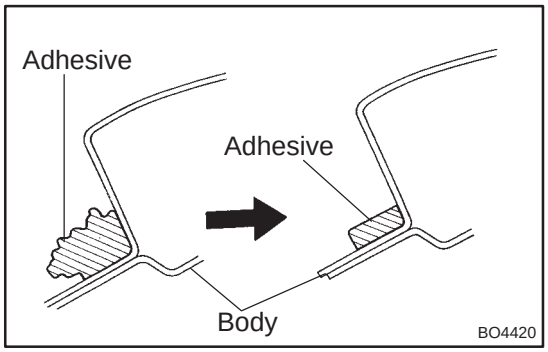


5. CLEAN BACK DOOR GLASS

(a) Clean the outer circumference of the glass with white gasoline.

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.

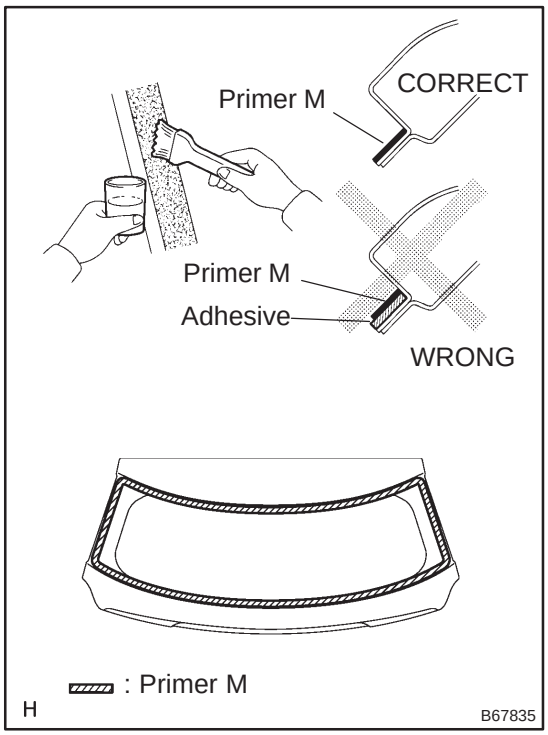
HINT:

Leave as much adhesive on the body as possible.

(2) Clean the contact surface of the body with a piece of 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.**

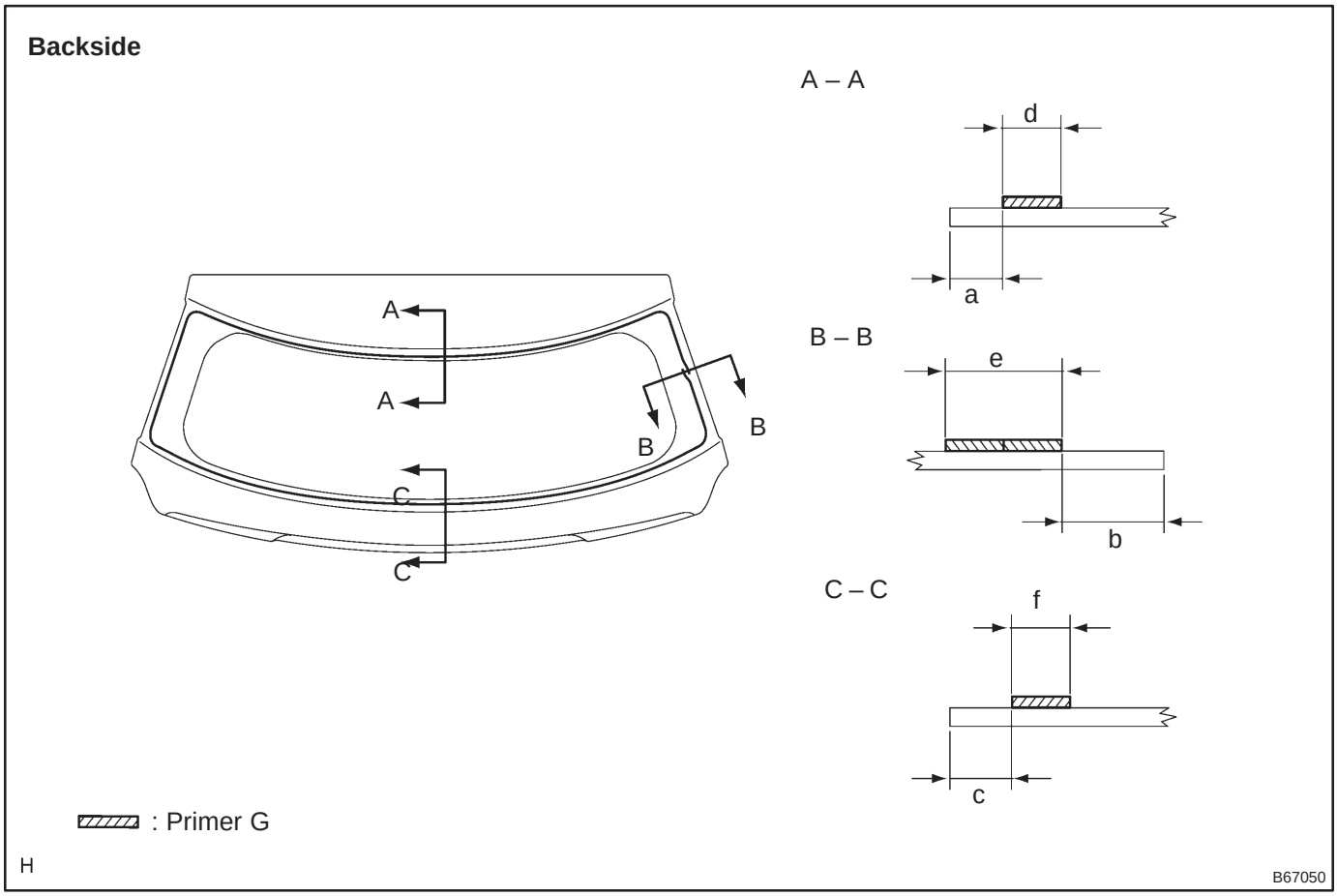
(c) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

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.**



Standard dimension:

a	5.1 mm (0.201 in.)
b	20.4 mm (0.512 in.)
c	6.4 mm (0.252 in.)
d	11.0 mm (0.433 in.)
e	14.0 mm (0.551 in.)
f	11.0 mm (0.433 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:

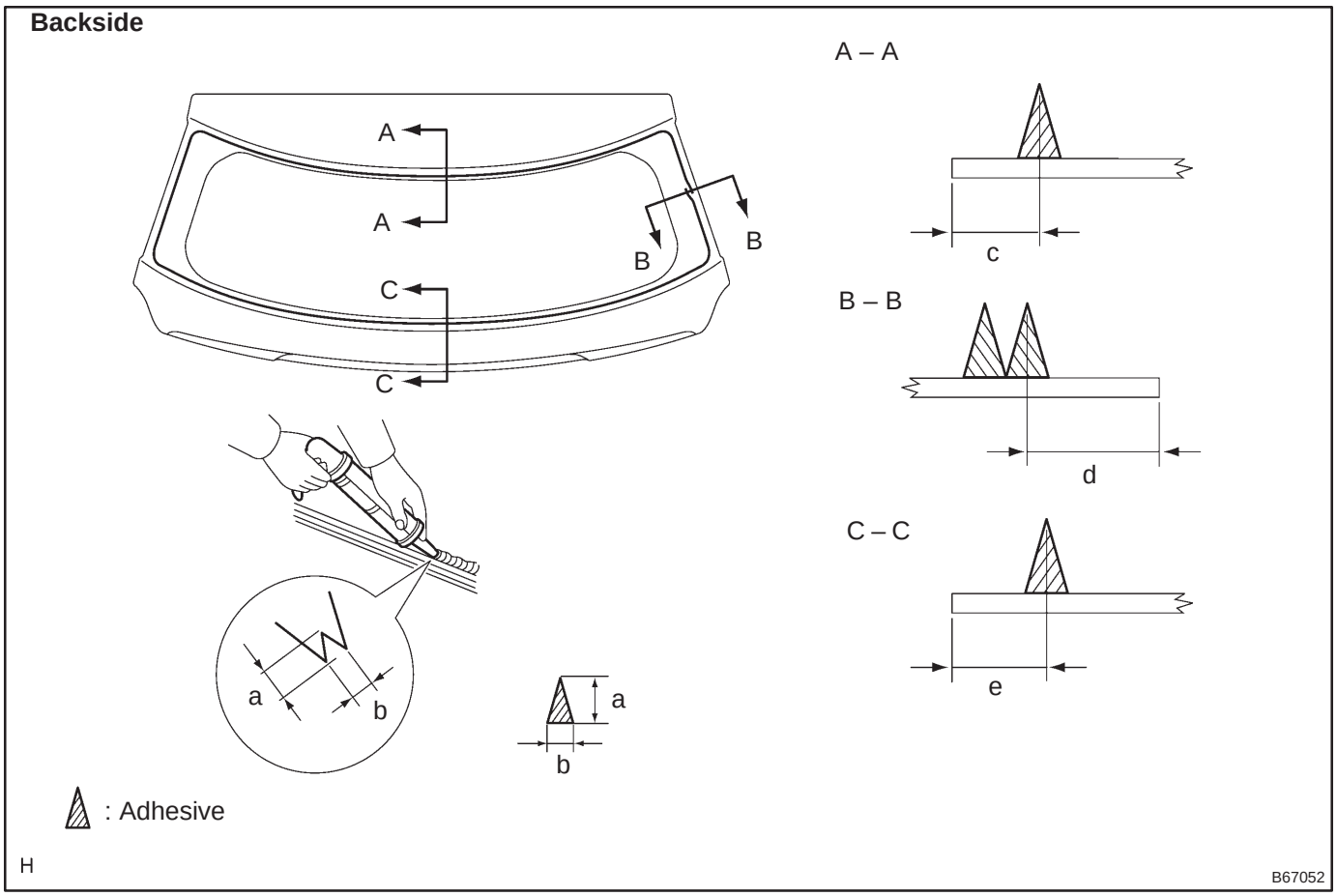
After cutting off the tip, use all adhesive within the time described in the table below.

Tackfree time:

Temperature	Tackfree Time
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 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.



Standard dimension:

a	12.0 mm (0.472 in.)
b	8.0 mm (0.315 in.)
c	12.1 mm (0.476 in.)
d	27.4 mm (1.079 in.)
e	13.4 mm (0.528 in.)

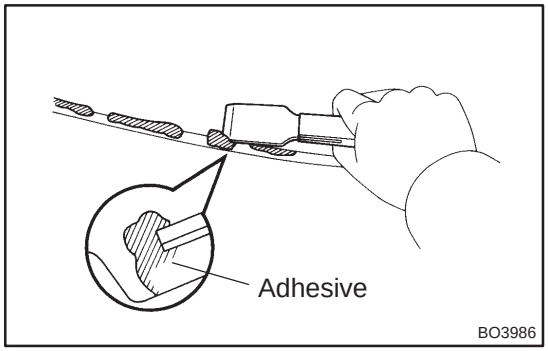
(e) Install the glass to the body.

(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 hour 30 minutes
20˚C (68˚F)	5 hours
5˚C (41˚F)	24 hours

7. INSPECT FOR LEAKS AND REPAIR

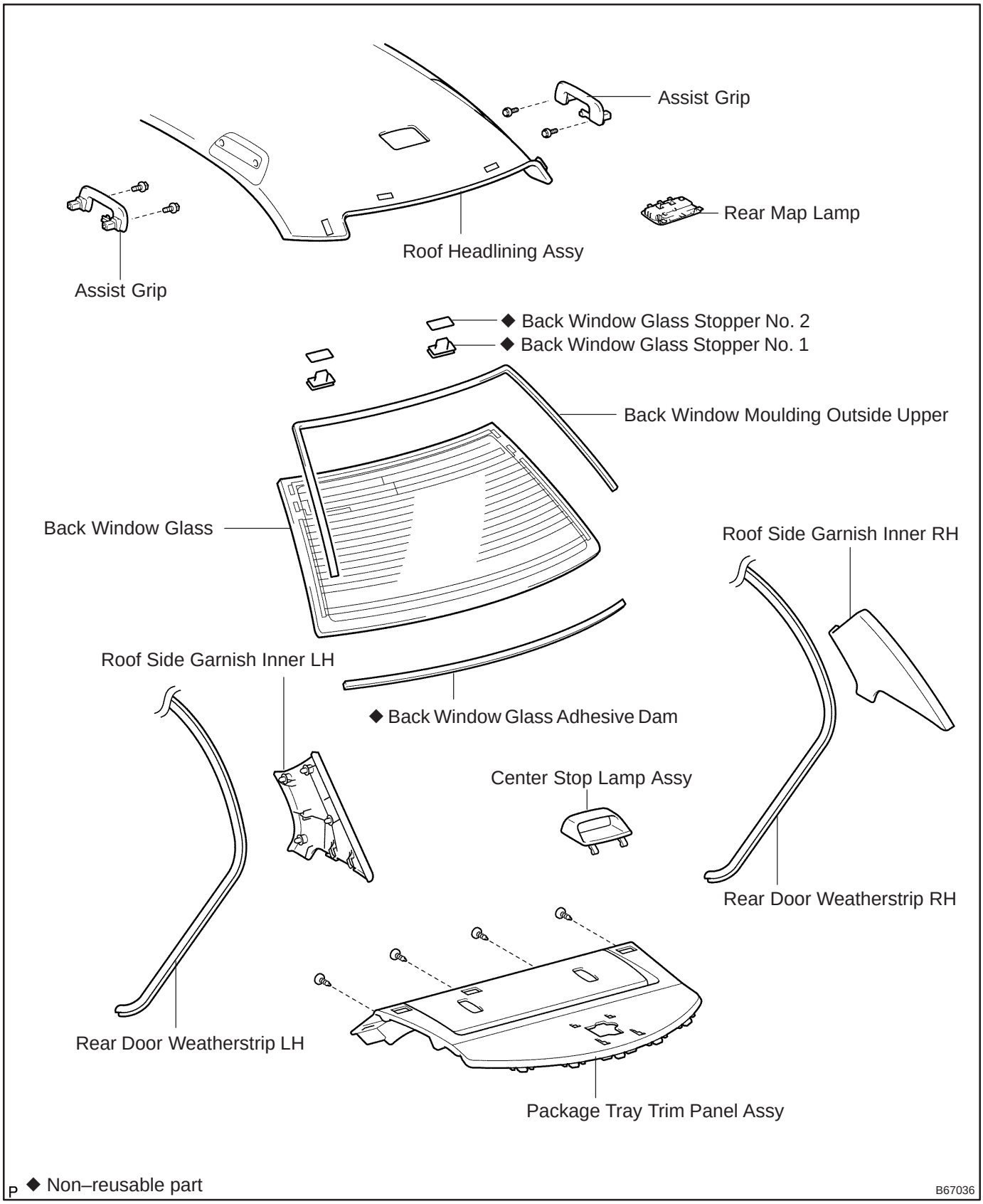
(a) Conduct a leak test after the adhesive has completely hardened.

(b) Seal any leaks with auto glass sealer.

BACK WINDOW GLASS (SEDAN MODELS)

COMPONENTS

700T5–01



P ◆ Non–reusable part

B67036

700T6–01

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 REAR SEAT CUSHION ASSY (See page 72–27 or 72–32)

2. REMOVE REAR SEATBACK ASSY (See page 72–27 or 72–32)

3. REMOVE ROOF HEADLINING ASSY (See page 76–36)

(a) Remove the rear door weatherstrip LH.

(b) Remove the rear door weatherstrip RH.

(c) Remove the roof side garnish inner LH.

(d) Remove the roof side garnish inner RH.

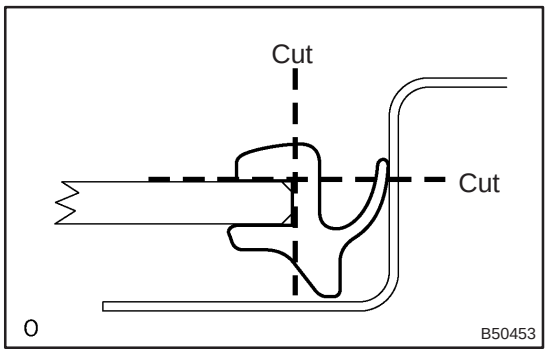
(e) Remove the 2 assist grips.

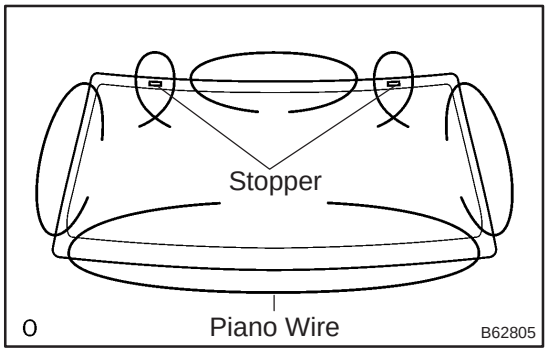
(f) Remove the rear map lamp.

(g) Remove the roof headlining assy.

4. REMOVE CENTER STOP LAMP ASSY (See page 65–26)

5. REMOVE PACKAGE TRAY TRIM PANEL ASSY (See page 61–15)





6. REMOVE BACK WINDOW MOULDING OUTSIDE UPPER

(a) Using a knife, cut off the moulding, as shown in the illustration.

NOTICE:

Do not damage the vehicle body with the knife.

(b) Remove the remaining moulding.

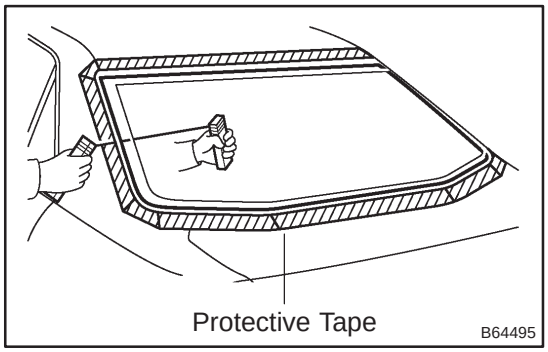
HINT:

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

7. REMOVE BACK WINDOW 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.

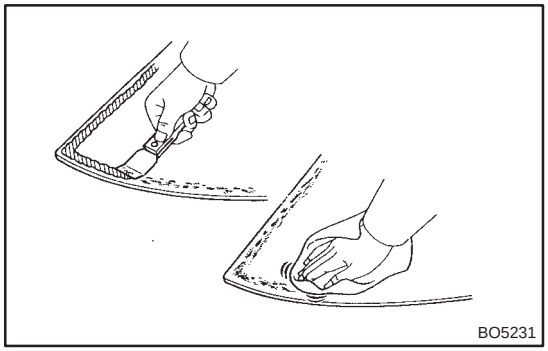
NOTICE:

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

(c) Cut off the adhesive by pulling the 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.

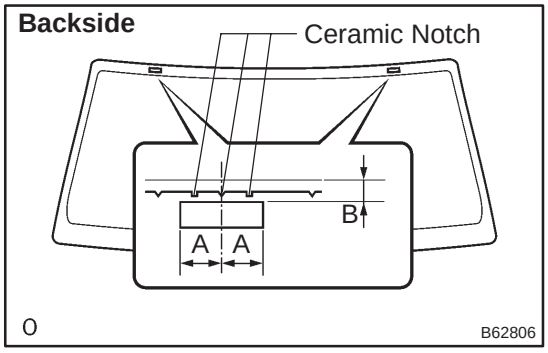


8. CLEAN BACK WINDOW GLASS

(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.**
- **Be careful not to damage the body.**
- **Even if using new glass, clean the glass with white gasoline.**



9. INSTALL BACK WINDW GLASS STOPPER NO.2

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

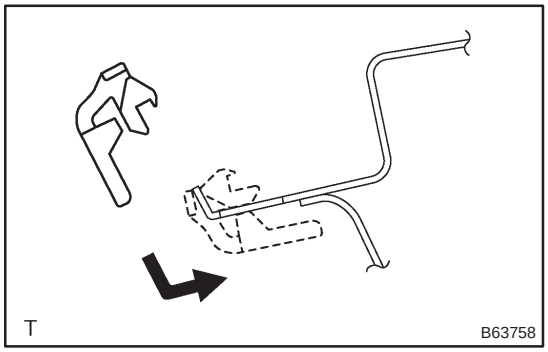
NOTICE:

- **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.

Standard dimension:

A	40.0 mm (1.575 in.)
B	11.3 mm (0.445 in.)



10. INSTALL BACK WINDOW GLASS STOPPER NO.1

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

11. INSTALL BACK WINDOW MOULDING OUTSIDE 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.

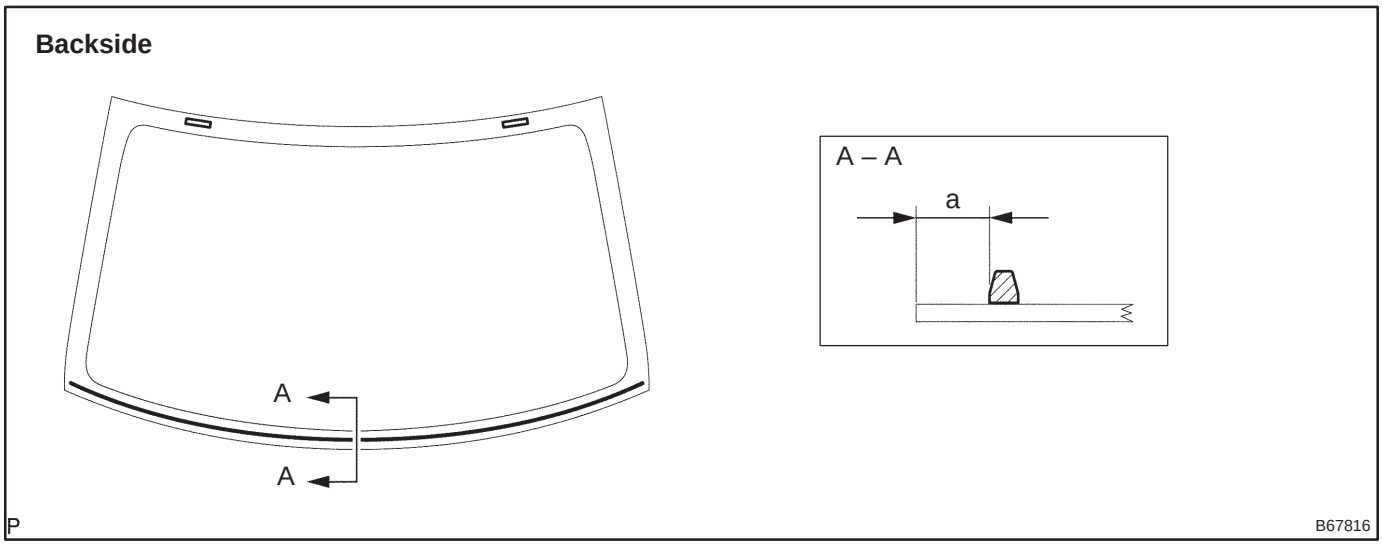
12. INSTALL BACK WINDOW GLASS ADHESIVE DAM

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

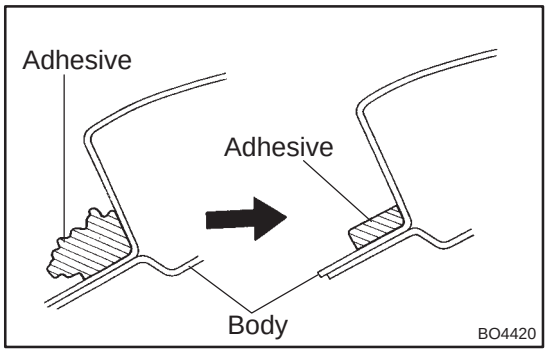
NOTICE:

- **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



Standard dimension (a) : 14.0 mm (0.551 in.)



13. INSTALL BACK WINDOW 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.

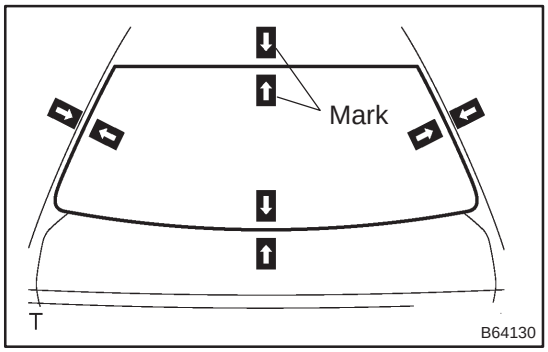
HINT:

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.

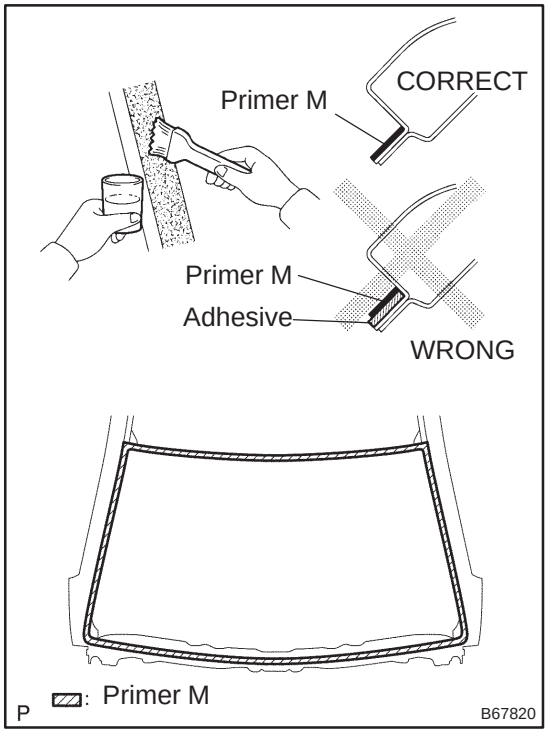
NOTICE:

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

HINT:

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

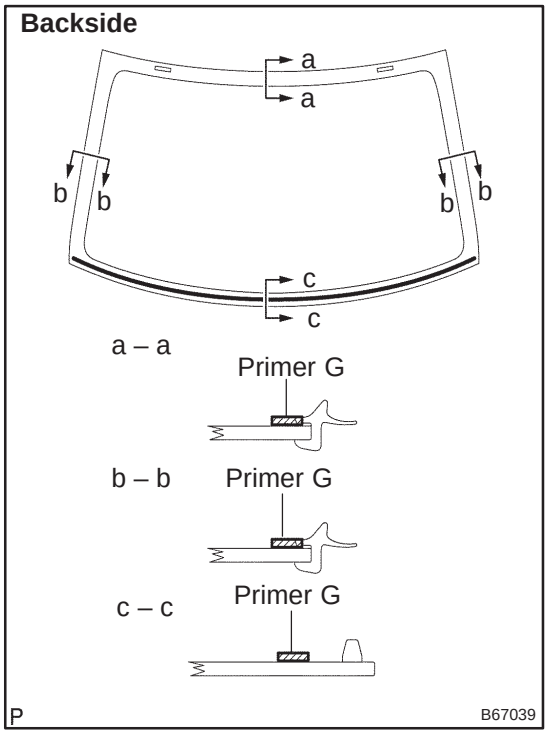
(4) Remove the glass.



(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.**



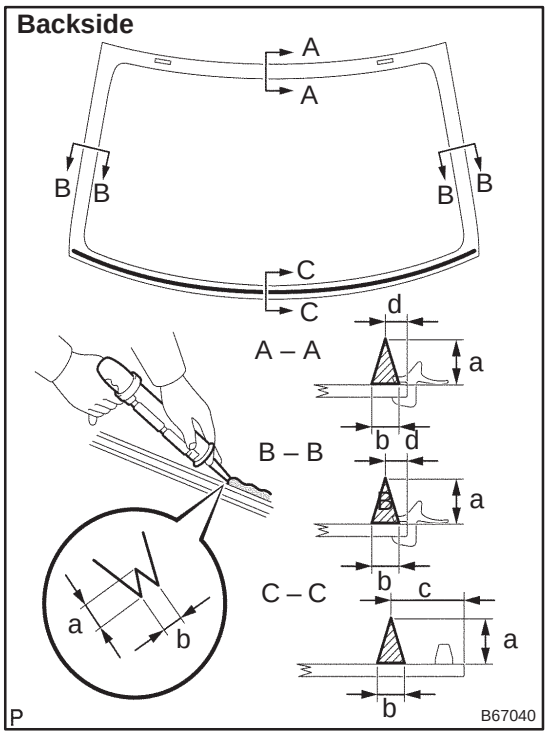
(d) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

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.**



(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:

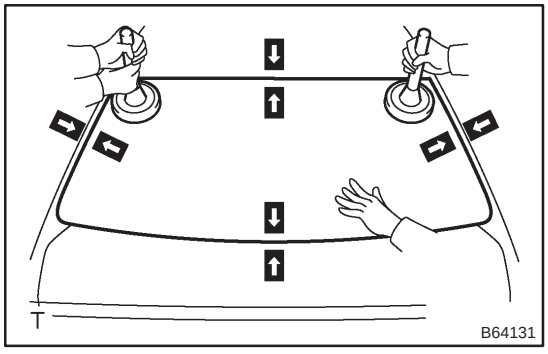
Temperature	Tackfree Time
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 minutes
5°C (41°F)	8 hours

(2) Load the sealer gun with the cartridge.

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

Standard dimension:

a	12.5 mm (0.492 in.)
b	8.0 mm (0.315 in.)
c	21.0 mm (0.827 in.)
d	6.5 mm (0.226 in.)



(f) Install the glass.

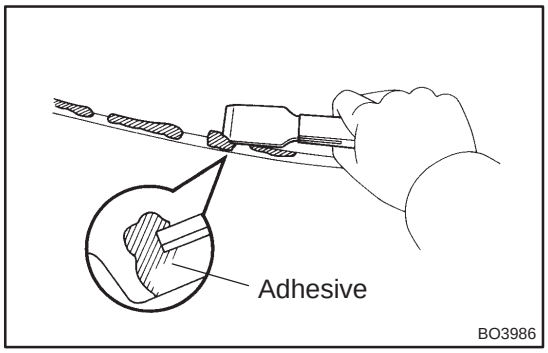
(1) Using a suction cup, position the glass so that the reference marks are aligned, and press it in gently along the rim.

NOTICE:

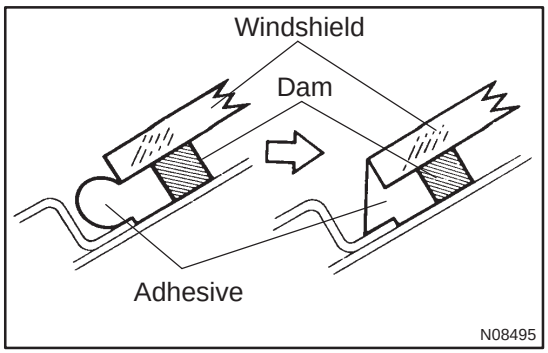
- **Allow the primer coating to dry for 3 minutes or more.**
- **Check that the stoppers are attached to the vehicle body correctly.**

- **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 hour 30 minutes
20˚C (68˚F)	5 hours
5˚C (41˚F)	24 hours

14. INSPECT FOR LEAKS AND REPAIR

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

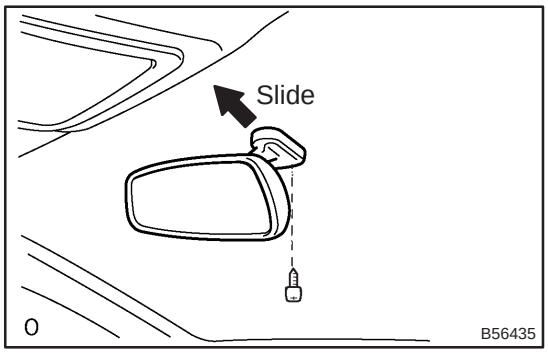
INNER REAR VIEW MIRROR ASSY

700TJ–01

REPLACEMENT

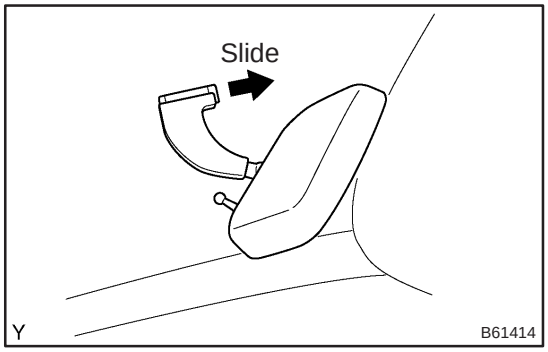
HINT:

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



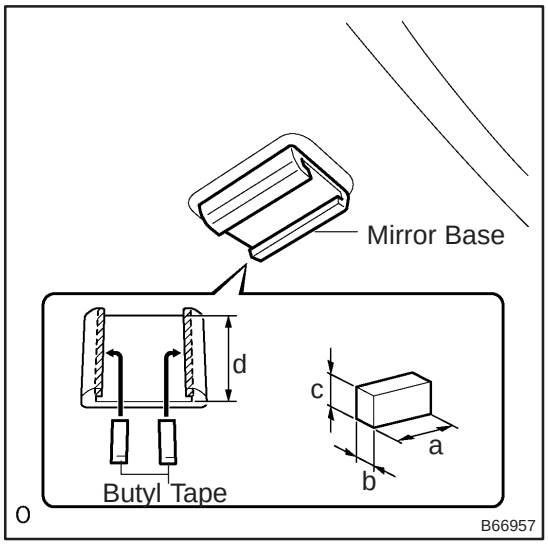
1. REMOVE INNER REAR VIEW MIRROR ASSY (EC MIRROR)

(a) Remove the inner rear view mirror cover.
(b) Remove the rain sensor covers (See page XX–XXX).
(c) Remove the screw.
(d) Disconnect the connector.
(e) Remove the rear view inner mirror.



2. REMOVE INNER REAR VIEW MIRROR ASSY (NORMAL MIRROR)

(a) Remove the inner rear view mirror, as shown in the illustration.



3. INSTALL INNER REAR VIEW MIRROR ASSY (NORMAL MIRROR)

(a) Prepare 2 pieces of butyl tape having the dimensions, as shown in the illustration.
(b) While extending them until they fit the length of the mirror base (24 mm, (0.944 in.)), apply them to both side of the mirror base respectively.
(c) Install inner rear view mirror.

NOTICE:

If butyl tape spreads out of the inside groove when applied, remove the excessive amount of tape so that it will not stick to the glass.

Dimension:

a	10 mm (0.393 in.)
b	4 mm (0.157 in.)
c	6 mm (0.236 in.)
d	24 mm (0.944 in.)

OUTER REAR VIEW MIRROR ASSY LH

700TI–01

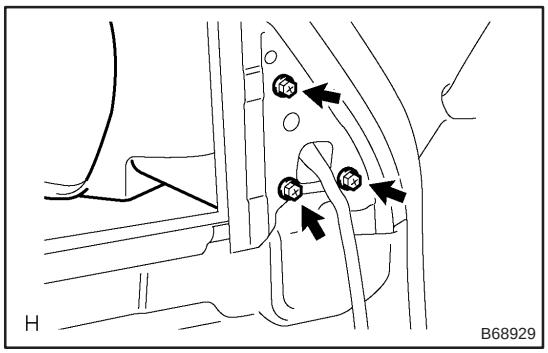
REPLACEMENT

HINT:

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

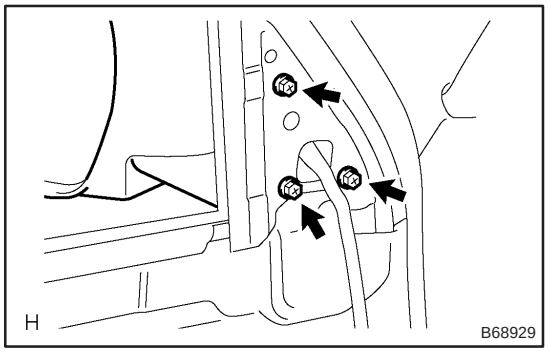
1. REMOVE FRONT DOOR HOLE COVER SUB–ASSY NO.1 LH (See page 75–8)

(a) Remove the front door lower frame bracket garnish.
(b) Remove the front door trim base.
(c) Only driver side:
Remove the fuel lid opener switch.
(d) w/ Power window:
Remove the power window regulator switch.
(e) Remove the front door trim board sub.
(f) Remove the front door inside handle.
(g) remove the front service hole cover No. 1.



2. REMOVE OUTER REAR VIEW MIRROR ASSY LH

(a) Disconnect the connector.
(b) Remove the 3 screws and mirror .



3. INSTALL OUTER REAR VIEW MIRROR ASSY LH

(a) Install the mirror with the 3 screws.
Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)
(b) Connect the connector.

POWER MIRROR CONTROL SYSTEM

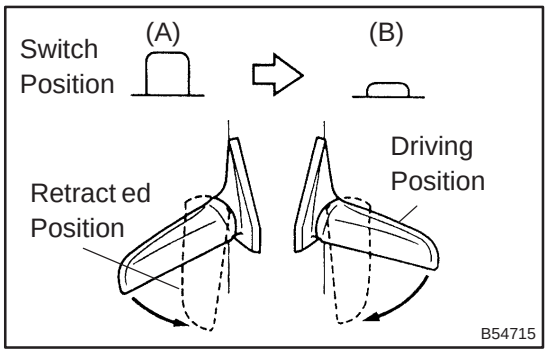
700TE–01

ON–VEHICLE INSPECTION

1. OPERATIONAL INSPECTION ELECTRICALLY–RETRACT DOOR MIRROR OPERATION

(a) Turn the ignition switch to the ACC position.

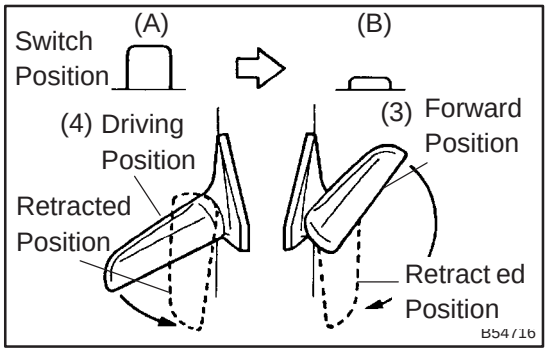
(b) At each position of the outer mirror body, check the operation when operating the retract switch of the outer mirror.



(c) Check the outer mirror operation, as shown in the illustration.

(1) Push the retract switch from the (A) position to the (B) position.

(2) Check that the right and left mirrors move from the driving position to the retracted position.



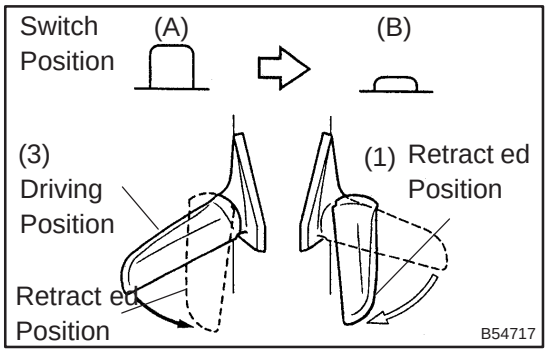
(d) Check the outer mirror operation, as shown in the illustration.

(1) Move one of the mirrors to the forward position by hand.

(2) Push the retract switch from the (A) position to the (B) position.

(3) Check that the mirror moves from the forward position to the retract position.

(4) Check that the other mirror moves from the driving position to the retracted position.

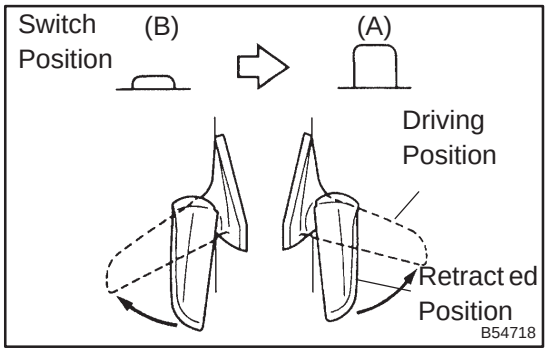


(e) Check the outer mirror operation, as shown in the illustration.

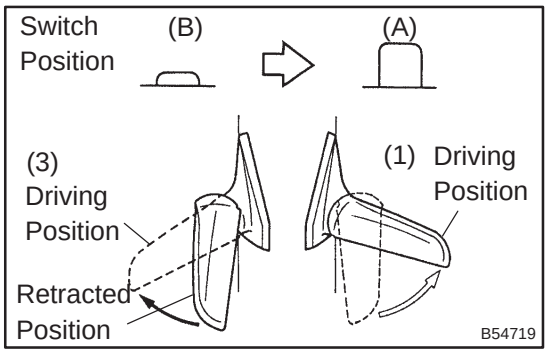
(1) Move one of the mirrors to the retracted position by hand.

(2) Push the retract switch from the (A) position to the (B) position.

(3) Check that the other mirror moves from the driving position to the retracted position.



(f) Check the outer mirror operation, as shown in the illustration.
  (1) Push the retract switch from the (B) position to the (A) position.
  (2) Check that the right and left mirrors move from the retracted position to the driving position.



(g) Check the outer mirror operation, as shown in the illustration.
  (1) Move one of mirrors to the driving position by hand.
  (2) Push the retract switch From the (A) position to the (B) position.
  (3) Check that the other mirror moves from the retracted position to the driving position.

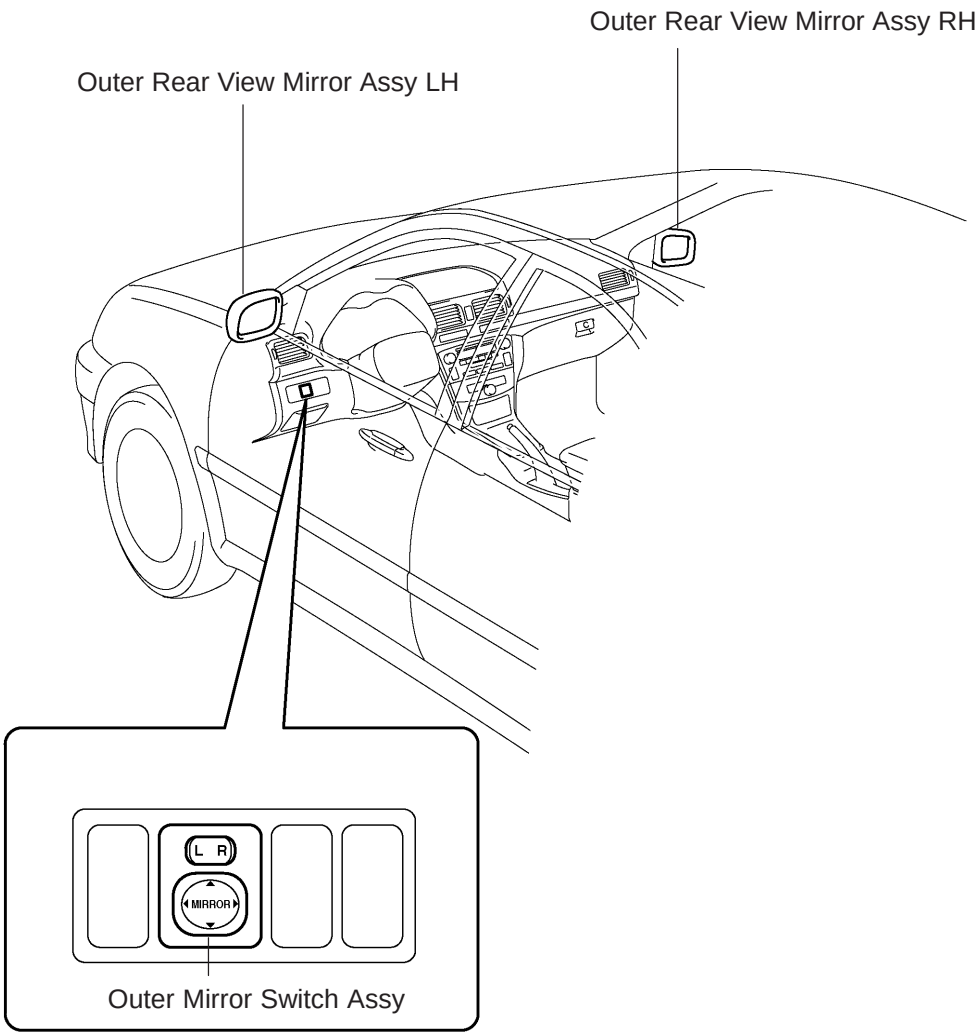
(h) Check operation of the outer mirror body when the ignition switch is turned OFF during operation.
  (1) When turning the ignition switch OFF during operation of the mirror body, check that the mirror body operation stops.
  (2) Check that the mirror body continues to operate when the ignition switch is turned to ACC again.

HINT:
If the retract switch is switched while the ignition switch is OFF and the ignition switch is turned to ACC again, the mirror body will operate in the opposite direction.

(i) Check operation of the outer mirror body when it is restrained by an obstacle.
  (1) Check that operation stops when restraining the mirror body movement by hand while the mirror body is moving to the retraced position or the driving position.
  (2) Switch the retract switch under the above condition, and check that the mirror body starts operation again to the opposite direction.

700TF–01

LOCATION



Y

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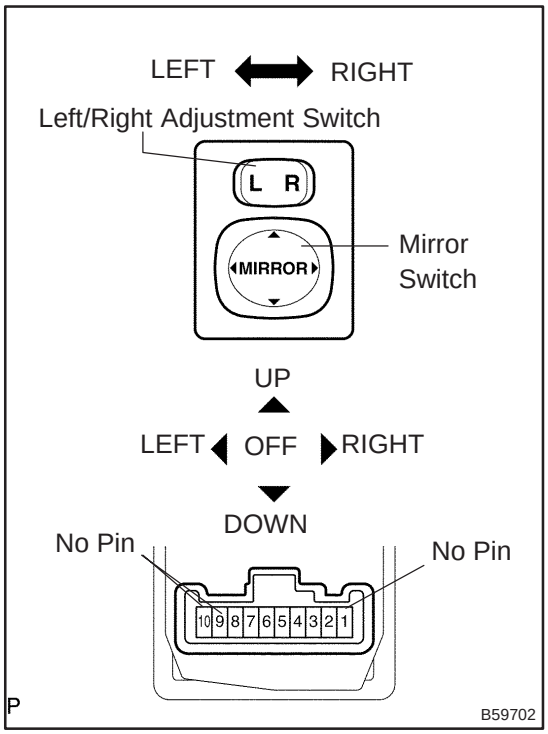
700TG–01

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
Mirror does not operate	1. Outer mirror switch assy	70–59
	2. Outer rear view mirror assy	70–59
	3. Wire harness	–
Mirror operates abnormally	1. Outer mirror switch assy	70–59
	2. Outer rear view mirror assy	70–59
	3. Wire harness	–

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):

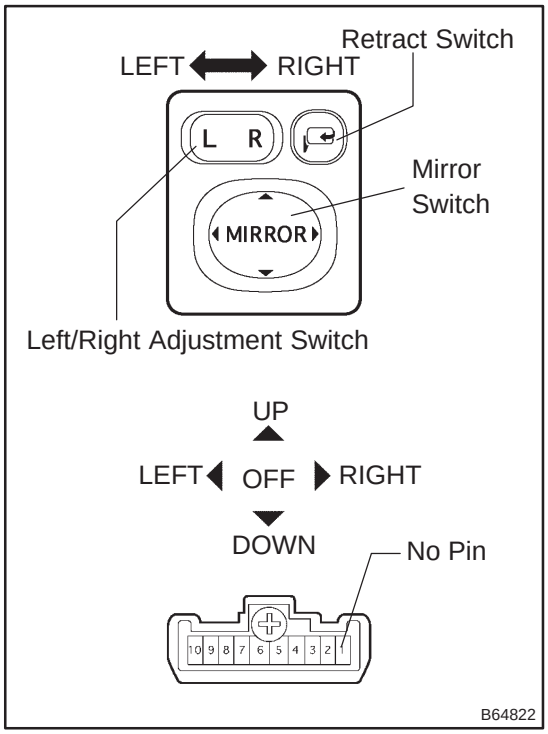
Terminal Connection	Switch Position	Specified Condition
4 – 8	UP	Below 1 Ω
6 – 7		
4 – 7	DOWN	Below 1 Ω
6 – 8		
5 – 8	LEFT	Below 1 Ω
6 – 7		
5 – 7	RIGHT	Below 1 Ω
6 – 8		

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 Connection	Switch Position	Specified Condition
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 MIRROR SWITCH ASSY (w/ RETRACT MIRROR)

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

Terminal Connection	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):

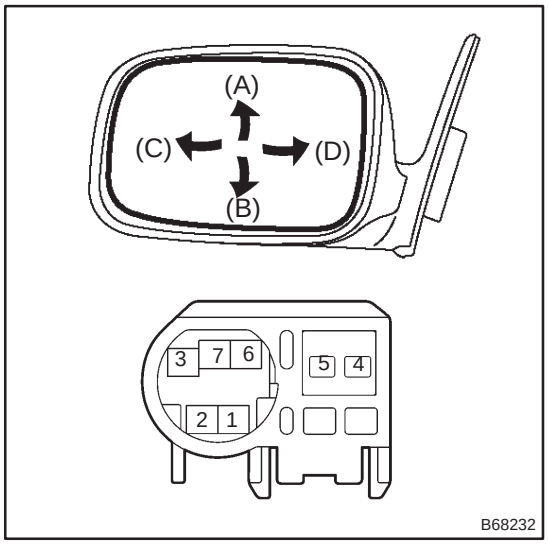
Terminal Connection	Switch Position	Specified Condition
–	OFF	10 kΩ or higher
3 – 8	UP	Below 1 Ω
6 – 7		
3 – 7	DOWN	Below 1 Ω
6 – 8		
2 – 8	LEFT	Below 1 Ω
6 – 7		
2 – 7	RIGHT	Below 1 Ω
6 – 8		

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

(c) Inspect the retract switch resistance.
Standard:

Terminal Connection	Switch Position	Specified Condition
7 – 9	DRIVING	Below 1 Ω
8 – 10		
7 – 10	RETRACT	Below 1 Ω
8 – 9		

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



3. INSPECT OUTER REAR VIEW MIRROR ASSY LH

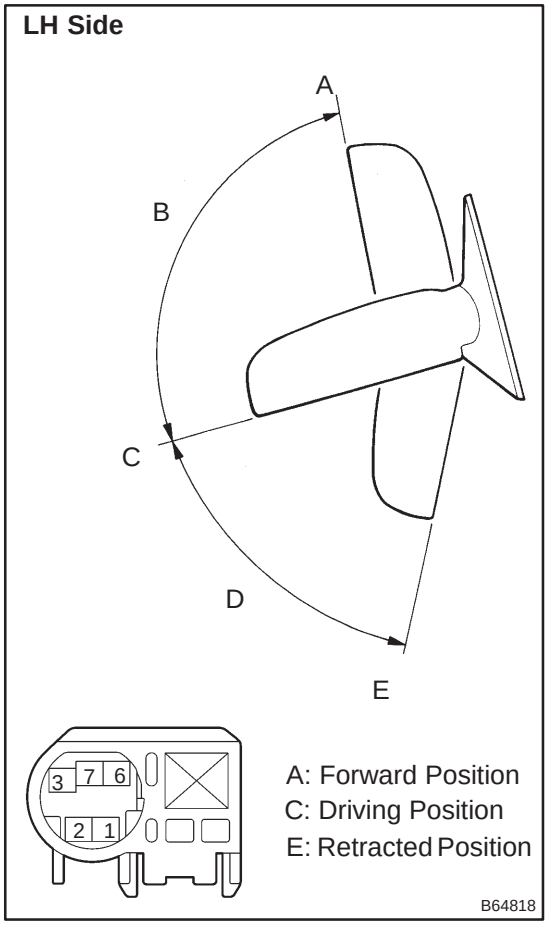
(a) Disconnect the mirror connector.

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

Standard:

Measurement Condition	Mirror Operation
Battery positive (+) → 3 (MV) Battery negative (–) → 7 (M+)	Turns upward (A)
Battery positive (+) → 7 (M+) Battery negative (–) → 3 (MV)	Turns downward (B)
Battery positive (+) → 7 (M+) Battery negative (–) → 6 (MH)	Turns left (C)
Battery positive (+) → 6 (MH) Battery negative (–) → 7 (M+)	Turns right (D)

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



(c) Only retract mirror:

Inspect operation of the electrical retract motor.

NOTICE:

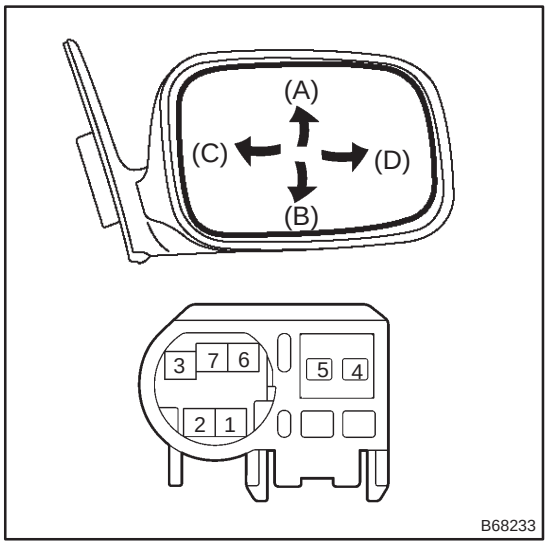
- **When repeating the inspection, cut off the battery voltage, and then perform operation in the same procedures.**
- **With the battery voltage applied, the mirror will not operate even trying to move only the mirror body.**

Standard:

Mirror Position	Measurement Condition	Mirror Operation
A (Forward position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position (stop)
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	No operation
B (Between forward position and driving position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	Moves to forward position and then stops
C (Driving position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	No operation

Mirror Position	Measurement Condition	Mirror Operation
D (Between driving position and retracted position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	Moves to driving position and then stops
E (Retracted position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	No operation
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	Moves to driving position and then stops

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



4. INSPECT OUTER REAR VIEW MIRROR ASSY RH

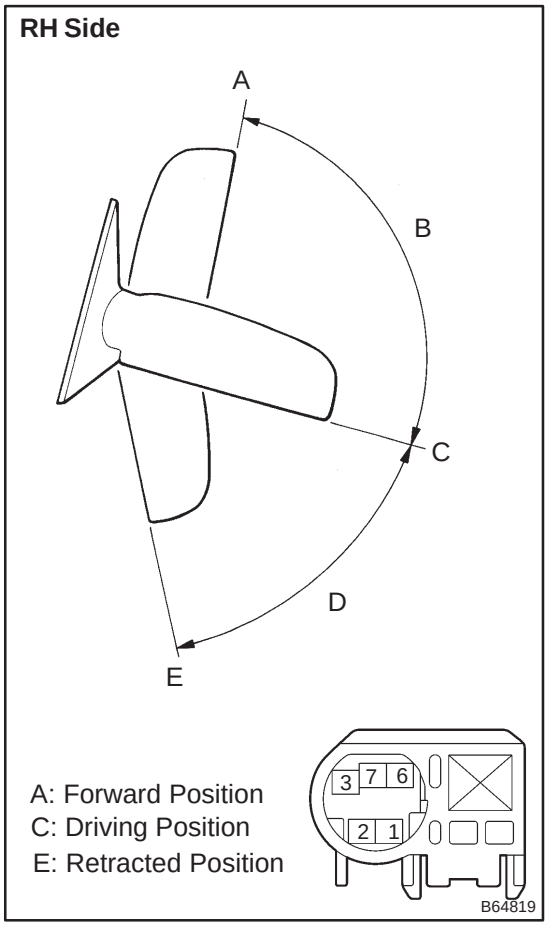
(a) Disconnect the mirror connector.

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

Standard:

Measurement Condition	Mirror Operation
Battery positive (+) → 3 (MV) Battery negative (–) → 7 (M+)	Turns upward (A)
Battery positive (+) → 7 (M+) Battery negative (–) → 3 (MV)	Turns downward (B)
Battery positive (+) → 7 (M+) Battery negative (–) → 6 (MH)	Turns right (D)
Battery positive (+) → 6 (MH) Battery negative (–) → 7 (M+)	Turns left (C)

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



(c) Only retract mirror:
Inspect operation of the electrical retract motor.

NOTICE:

- **When repeating the inspection, cut off the battery voltage, and then perform operation in the same procedures.**
- **With the battery voltage applied, the mirror will not operate even trying to move only the mirror body.**

Standard:

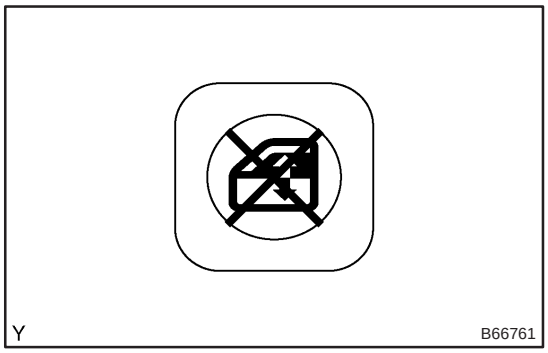
Mirror Position	Measurement Condition	Mirror Operation
A (Forward position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	No operation
B (Between forward position and driving position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	Moves to forward position and then stops
C (Driving position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	No operation
D (Between driving position and retracted position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	Moves to retracted position and then stops
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	Moves to driving position and then stops
E (Retracted position)	Battery positive (+) → 1 (MR) Battery negative (–) → 2 (MF)	No operation
	Battery positive (+) → 2 (MF) Battery negative (–) → 1 (MR)	Moves to driving position and then stops

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

POWER WINDOW CONTROL SYSTEM

700S7–01

ON–VEHICLE INSPECTION



1. CHECK WINDOW LOCK SWITCH

(a) Check that the power windows except the driver side power window operation is disabled when the window lock switch of the power window master switch is pressed.

(b) Check that the 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 window switch of the power window master switch can operate the driver side power window as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	Driver side	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)

(b) Check that each power window regulator switch can operate each power window as follows.

Standard:

Condition	Regulator Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Passenger side	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)
	Rear LH	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)
	Rear RH	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)

3. CHECK AUTO UP/DOWN FUNCTION

(a) Check that the driver side window switch of the power window master switch can operate the driver side power window as follows:

Standard:

Condition	Master Switch	Switch Operation	Power Window
Ignition switch ON	Driver side	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)

(b) Check that each power window regulator switch can operate each power window as follows:

Standard:

Condition	Regulator Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Passenger side	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)
	Rear LH	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)
	Rear RH	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)

4. CHECK REMOTE UP/DOWN FUNCTION

(a) Check that each switch of the power window master switch can operate each power window as follows:
Standard:

Condition	Master Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Passenger side	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)
	Rear LH	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)
	Rear RH	Halfway pulled UP	UP (Closed)
		Halfway pushed DOWN	DOWN (Open)

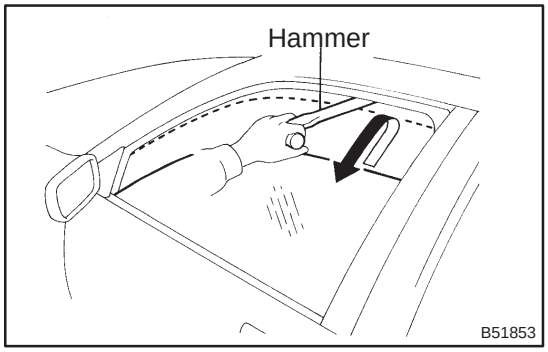
5. CHECK REMOTE AUTO UP/DOWN FUNCTION

(a) Check that each switch of the power window master switch can operate each power window as follows:
Standard:

Condition	Master Switch	Switch Operation	Power Window
• Ignition switch ON • Window lock switch OFF	Passenger side	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)
	Rear LH	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)
	Rear RH	Fully pulled UP	AUTO UP (Fully closed)
		Fully pushed DOWN	AUTO DOWN (Fully open)

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



7. CHECK JAM PROTECTION

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.

NOTICE:

If the power window motor has just been reset, raise and lower the door glass several times using MANUAL function before performing the check.

(a) Check that the door glass goes down by approx. 50 mm (1.97 in.) right when something gets caught between the door frame and the 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.

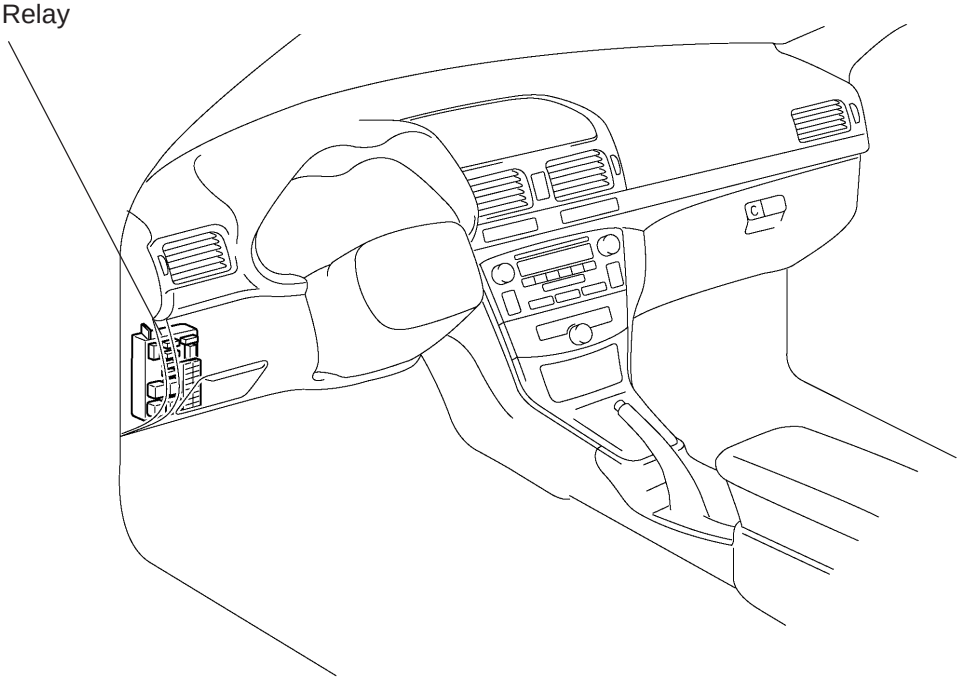
Operative conditions:
- AUTO UP
- AUTO UP function after the ignition switch is turned OFF
- MANUAL UP function after the ignition switch is turned OFF

700S8–01

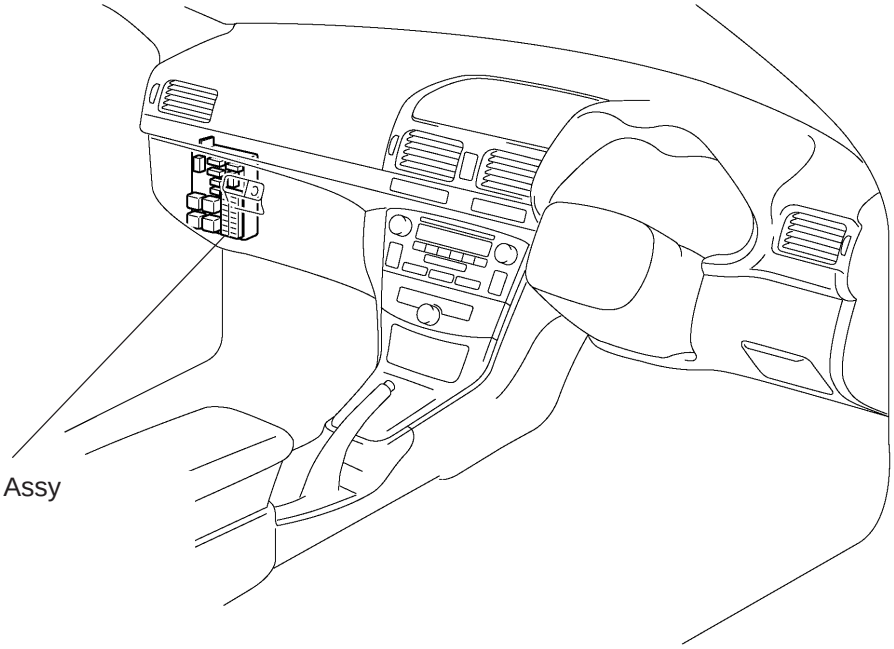
LOCATION

LHD Models

Instrument Panel J/B Assy
- Integration Relay
- IG1 Relay



RHD Models



Instrument Panel J/B Assy
- Integration Relay
- IG1 Relay

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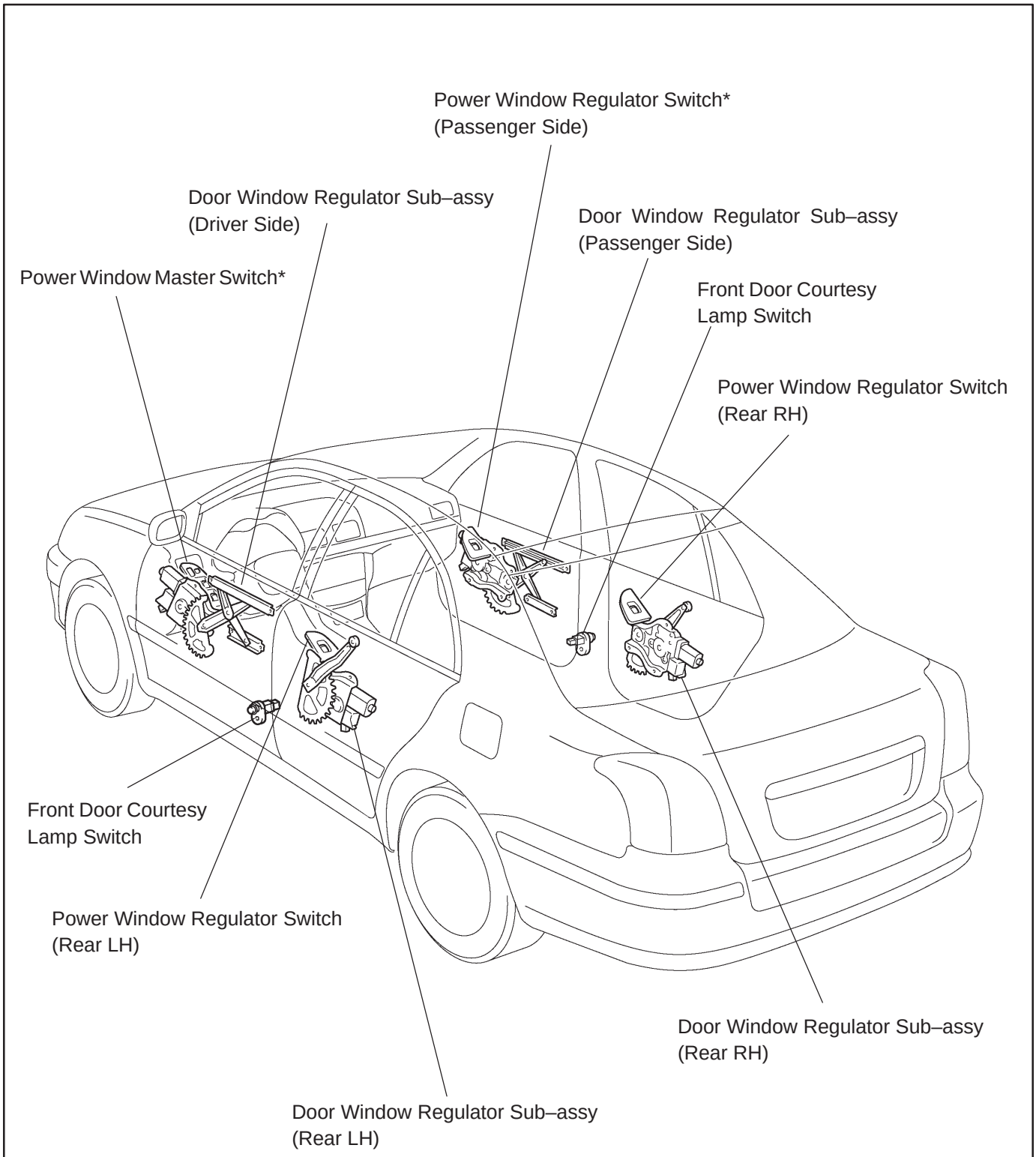

*: In the RHD vehicle, look at the same location on the opposite side as compared to the LHD vehicle.

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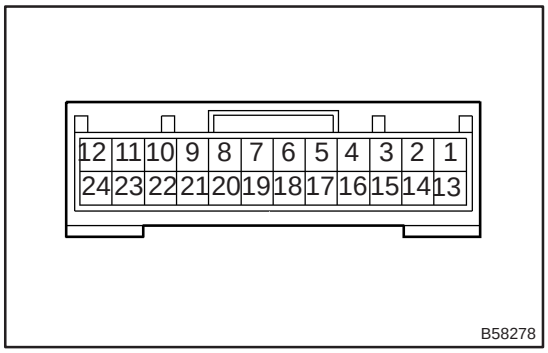
700S9–01

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
All power windows do not operate	1. Ignition switch assy 2. IG1 relay 3. Power window regulator master switch assy 4. Instrument panel J/B assy (Integration relay) 5. Wire harness	80–2 70–6 70–6 70–6 –
Only one power window does not operate	1. D–FR P/W fuse 2. P–FR P/W fuse 3. D–RR P/W fuse 4. P–RR P/W fuse 5. Power window regulator master switch assy 6. Power window regulator switch assy 7. Door window regulator sub–assy (Power window motor) 8. Wire harness	– – – – 70–6 70–6 70–6 –
AUTO UP/DOWN function does not operate	1. Power window regulator master switch assy 2. Power window regulator switch assy 3. Door window regulator sub–assy (Power window motor)	70–6 70–6 70–6
Window lock system does not operate	1. Power window master switch assy	70–6
Window cannot be operated after ignition switch is turned OFF	1. Front door courtesy lamp switch assy 2. Instrument panel J/B assy (Integration relay)	70–6 70–6

700SA–01

INSPECTION



1. INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY

(a) Inspect the resistance between the terminals of the switch, as shown in the table below.

Standard:

Power window lock switch

Tester Connection	Switch Position	Specified Condition
3 (PW) – 23 (WL)	Unlock	Below 1 Ω
	Lock	10 kΩ or higher

Driver side switch (LHD models)

Tester Connection	Switch Position	Specified Condition
2 (FLU) – 3 (PW)	AUTO UP	Below 1 Ω
3 (PW) – 14 (FLA)		
2 (FLU) – 3 (PW)	MANUAL UP	Below 1 Ω
–	OFF	–
3 (PW) – 4 (FLD)	MANUAL DOWN	Below 1 Ω
3 (PW) – 4 (FLD)	AUTO DOWN	Below 1 Ω
3 (PW) – 14 (FLA)		

Driver side switch (RHD models)

Tester Connection	Switch Position	Specified Condition
2 (FRU) – 3 (PW)	AUTO UP	Below 1 Ω
3 (PW) – 14 (FRA)		
2 (FRU) – 3 (PW)	MANUAL UP	Below 1 Ω
–	OFF	–
3 (PW) – 4 (FRD)	MANUAL DOWN	Below 1 Ω
3 (PW) – 4 (FRD)	AUTO DOWN	Below 1 Ω
3 (PW) – 14 (FRA)		

Passenger side switch (LHD models)

Tester Connection	Switch Position	Specified Condition
3 (PW) – 10 (FRU)	AUTO UP	Below 1 Ω
3 (PW) – 11 (FRA)		
3 (PW) – 10 (FRU)	MANUAL UP	Below 1 Ω
–	OFF	–
3 (PW) – 9 (FRD)	MANUAL DOWN	Below 1 Ω
3 (PW) – 9 (FRD)	AUTO DOWN	Below 1 Ω
3 (PW) – 11 (FRA)		

Passenger side switch (RHD models)

Tester Connection	Switch Position	Specified Condition
3 (PW) – 10 (FLU)	AUTO UP	Below 1 Ω
3 (PW) – 11 (FLA)		
3 (PW) – 10 (FLU)	MANUAL UP	Below 1 Ω
–	OFF	–
3 (PW) – 9 (FLD)	MANUAL DOWN	Below 1 Ω
3 (PW) – 9 (FLD)	AUTO DOWN	Below 1 Ω
3 (PW) – 11 (FLA)		

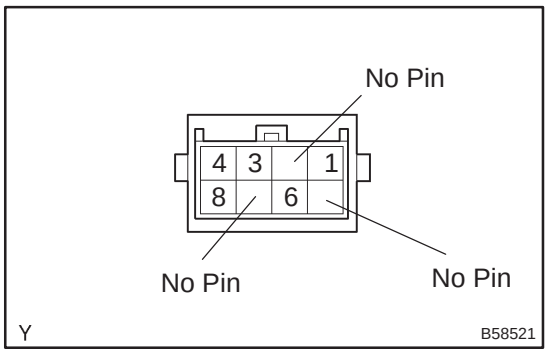
Rear LH switch

Tester Connection	Switch Position	Specified Condition
3 (PW) – 17 (RLU)	AUTO UP	Below 1 Ω
3 (PW) – 16 (RLA)		
3 (PW) – 17 (RLU)	MANUAL UP	Below 1 Ω
–	OFF	–
3 (PW) – 15 (RLD)	MANUAL DOWN	Below 1 Ω
3 (PW) – 15 (RLD)	AUTO DOWN	Below 1 Ω
3 (PW) – 16 (RLA)		

Rear RH switch

Tester Connection	Switch Position	Specified Condition
3 (PW) – 18 (RRU)	AUTO UP	Below 1 Ω
3 (PW) – 22 (RRA)		
3 (PW) – 18 (RRU)	MANUAL UP	Below 1 Ω
–	OFF	–
3 (PW) – 19 (RRD)	MANUAL DOWN	Below 1 Ω
3 (PW) – 19 (RRD)	AUTO DOWN	Below 1 Ω
3 (PW) – 22 (RRA)		

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



2. INSPECT POWER WINDOW REGULATOR SWITCH ASSY

HINT:

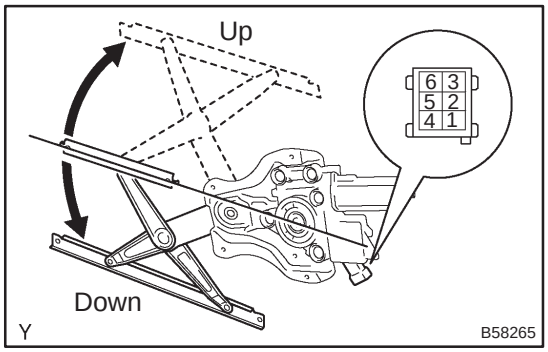
The passenger, rear LH and rear RH regulator switches are all the same.

(a) Check the resistance between the terminals of the switch connector, as shown in the table below.

Standard:

Tester Connection	Switch Position	Specified Condition
1 (UP) – 8 (WL)	AUTO UP	Below 1 Ω
3 (AUTO) – 8 (WL)		
1 (UP) – 8 (WL)	MANUAL UP	Below 1 Ω
–	OFF	–
6 (DOWN) – 8 (WL)	MANUAL DOWN	Below 1 Ω
3 (AUTO) – 8 (WL)	AUTO DOWN	Below 1 Ω
6 (DOWN) – 8 (WL)		

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



3. INSPECT FRONT DOOR WINDOW REGULATOR SUB–ASSY LH

(a) Inspect operation of the power window regulator.

(1) Apply battery voltage to the connector terminals.

(2) Check that the regulator smoothly operates.

Standard:

MeasurementCondition		SpecifiedCondition
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 2	Regulator moves upward
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 1	Regulator moves downward

(b) Inspect operation of the PTC inside the power window regulator motor.

NOTICE:

The work must be performed with the power window regulator and door glass installed in the vehicle.

(1) Set an electrical tester DC 400 A probe to the wire harness of terminal 4 or 6.

NOTICE:

Match the arrow mark of the probe with the current direction.

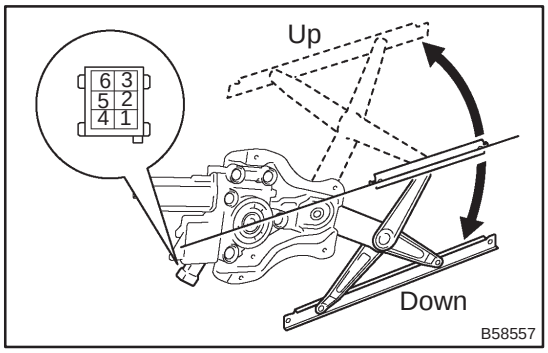
(2) Fully close the door glass by operating the power window switch and keep the door glass there for approximately 60 seconds.

(3) Try to operate the power window past the fully closed position using the power window switch and measure the time until the electrical current changes into 1 A from 16 to 34 A (Inspection of current shut–off).

Standard: Less than 1 second

(4) Check that the door glass goes down when the power window regulator switch is pushed DOWN.

If the result is not as specified, replace the regulator sub–assy.



4. INSPECT FRONT DOOR WINDOW REGULATOR SUB–ASSY RH

(a) Inspect operation of the power window regulator.

(1) Apply battery voltage to the connector terminals.

(2) Check that the regulator smoothly operates.

Standard:

MeasurementCondition		SpecifiedCondition
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 2	Regulator moves upward
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 1	Regulator moves downward

(b) Inspect operation of the PTC inside the power window regulator motor.

NOTICE:

The work must be performed with the power window regulator and door glass installed in the vehicle.

(1) Set an electrical tester DC 400 A probe to the wire harness of terminal 4 or 6.

NOTICE:

Match the arrow mark of the probe with the current direction.

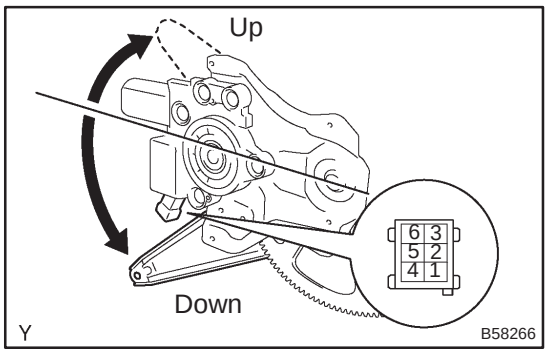
(2) Fully close the door glass by operating the power window switch and keep the door glass there for approximately 60 seconds.

(3) Try to operate the power window past the fully closed position using the power window switch and measure the time until the electrical current changes into 1 A from 16 to 34 A (Inspection of current shut–off).

Standard: Less than 1 second

(4) Check that the door glass goes down when the power window regulator switch is pushed DOWN.

If the result is not as specified, replace the regulator sub–assy.



5. INSPECT REAR DOOR WINDOW REGULATOR SUB–ASSY LH

(a) Inspect operation of the power window regulator motor.

(1) Apply battery voltage to the connector terminals.

(2) Check that the regulator smoothly operates.

Standard:

Measurement Condition		Specified Condition
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 2	Regulator moves upward
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 1	Regulator moves downward

(b) Inspect operation of the PTC inside the power window regulator motor.

NOTICE:

The work must be performed with the power window regulator and door glass installed in the vehicle.

(1) Set an electrical tester DC 400 A probe to the wire harness of terminal 4 or 6.

NOTICE:

Match the arrow mark of the probe with the current direction.

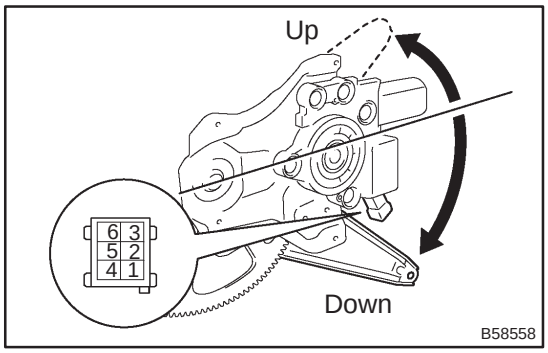
(2) Fully close the door glass by operating the power window switch and keep the door glass there for approximately 60 seconds.

(3) Try to operate the power window past the fully closed position using the power window switch and measure the time until the electrical current changes into 1 A from 16 to 34 A (Inspection of current shut–off).

Standard: Less than 1 second

(4) Check that the door glass goes down when the power window regulator switch is pushed DOWN.

If the result is not as specified, replace the regulator sub–assy.



6. INSPECT REAR DOOR WINDOW REGULATOR SUB–ASSY RH

(a) Inspect operation of the power window regulator.

(1) Apply battery voltage to the connector terminals.

(2) Check that the regulator smoothly operates.

Standard:

Measurement Condition		Specified Condition
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 2	Regulator moves upward
Battery positive (+) → 6 Battery negative (–) → 4	Battery positive (+) → 1	Regulator moves downward

(b) Inspect operation of the PTC inside the power window regulator motor.

NOTICE:

The work must be performed with the power window regulator and door glass installed in the vehicle.

(1) Set a electrical tester DC 400 A probe to the wire harness of terminal 4 or 6.

NOTICE:

Match the arrow mark of the probe with the current direction.

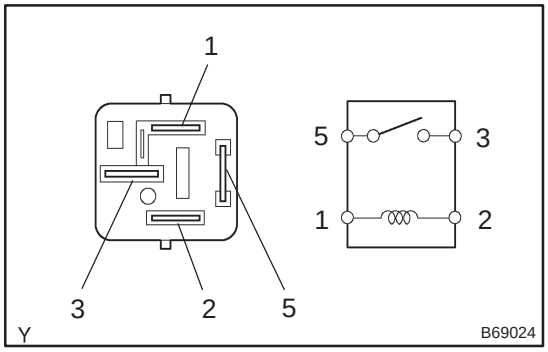
(2) Fully close the door glass by operating the power window switch and keep the door glass there for approximately 60 seconds.

(3) Try to operate the power window past the fully closed position using the power window switch and measure the time until the electrical current changes into 1 A from 16 to 34 A (Inspection of current shut–off).

Standard: Less than 1 second

(4) Check that the door glass goes down when the power window regulator switch is pushed DOWN.

If the result is not as specified, replace the regulator sub–assy.



7. INSPECT IG1 RELAY

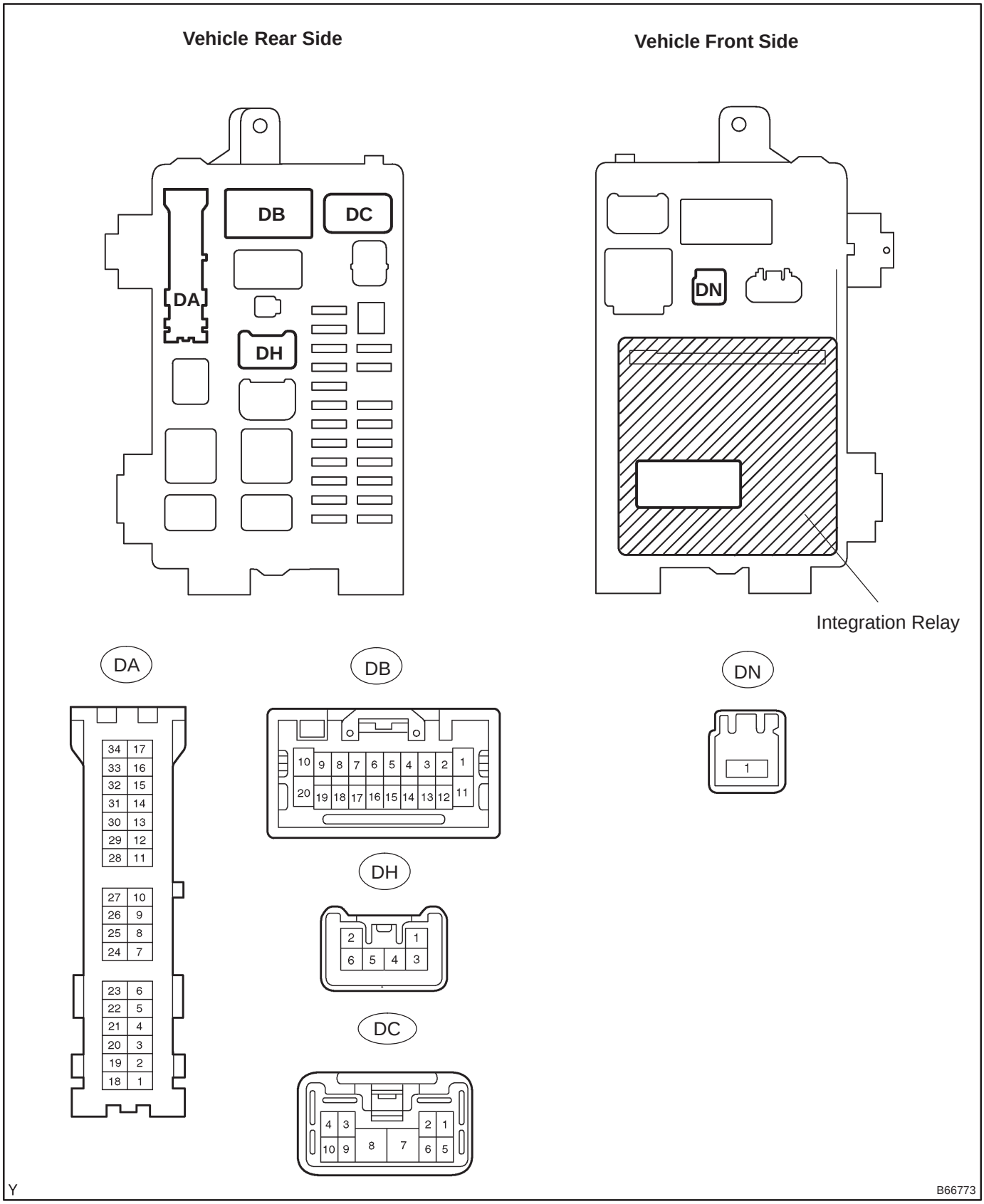
(a) Check resistance of the relay.

Standard:

Tester Connection	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.

8. INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY (INTEGRATION RELAY)



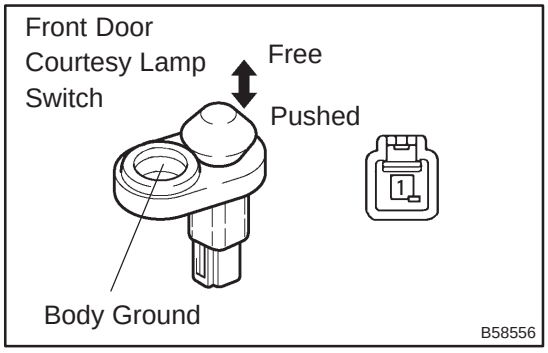
(a) Disconnect the DA, DB, DC, DH and DN J/B connectors.
(b) Check the voltage and resistance between each terminal of the wire harness side connectors and the body ground.
Standard:

Tester Connection	Condition	Specified Condition
DA–8 – Body ground	No key inserted in ignition key cylinder → Yes	10 kΩ or higher → Below 1 Ω
DA–9 – Body ground	Constant	Below 1 Ω
B–13 – Body ground	Driver side door CLOSED → OPEN	10 kΩ or higher → Below 1 Ω
DC–9 – Body ground	Passenger side door CLOSED → OPEN	10 kΩ or higher → Below 1 Ω
DH–5 – Body ground	Ignition switch ON → Others	10 to 14 V → 0 V
DN–1 – Body ground	Constant	10 to 14 V

If the result is not as specified, there may be a malfunction on the wire harness side or the J/B assy (integration relay) may have a malfunction.
(c) Reconnect the DA, DB, DC, DH and DN J/B connectors.
(d) Check the voltage of terminal 5 of the DH connector.
Standard:

Tester Connection	Condition	Specified Condition
DH–5 – Body ground	Ignition switch ON → Others	10 to 14 V → 0 V

If the result is not as specified, there may be a malfunction on the wire harness side or the J/B assy (integration relay) may have a malfunction.



9. INSPECT FRONT DOOR COURTESY LAMP SWITCH ASSY
(a) Remove the courtesy lamp switch.
(b) Check the switch resistance.
Standard:

Tester Connection	Switch Position	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.

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RESET

NOTICE:

- **The power window regulator motor must be reset when the fitting of the door glass is adjusted or when the door glass run is replaced.**
- **Whenever disconnecting the battery terminal, reset all the other systems besides the power window control system.**

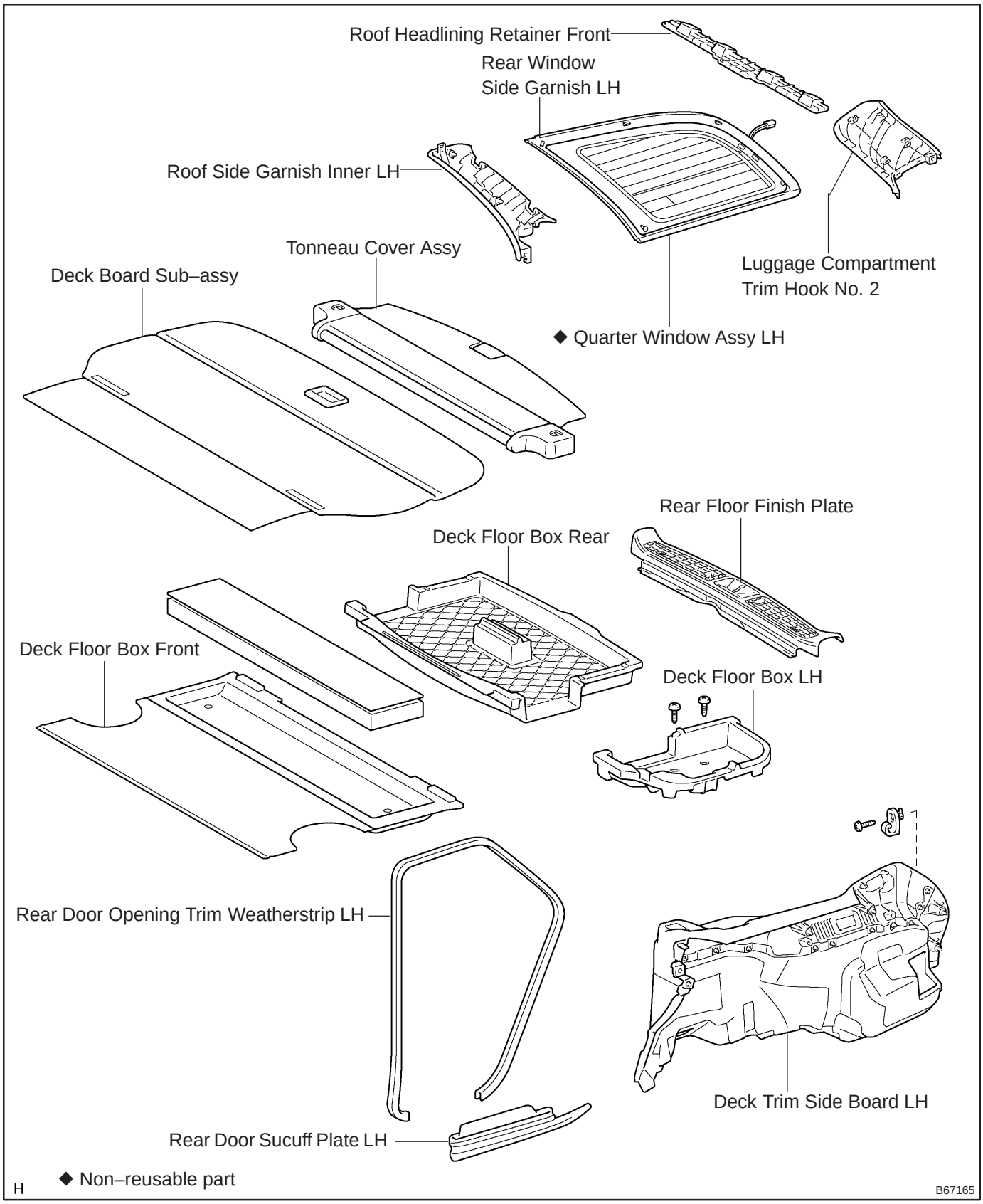
1. RESET WINDOW REGULATOR SUB–ASSY (REGULATOR MOTOR)

(a) Turn the ignition switch ON.
(b) Operate the power window using the master (regulator) switch.
(c) Disconnect the battery, fuse or motor connector while the power window is operating, so that the power window motor is forced to stop.
(d) Reconnect the battery, fuse or motor connector.
(e) Pull up the power window switch until the power window is fully closed and hold the switch at least 1 second.
(f) Check that the AUTO UP/DOWN function operates completely.

QUARTER WINDOW ASSY LH (WAGON MODELS)

700T3–01

COMPONENTS



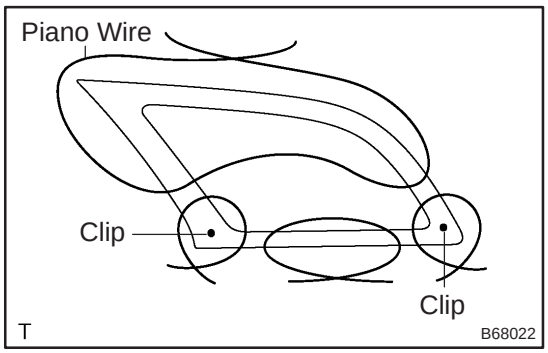
REPLACEMENT

HINT:

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

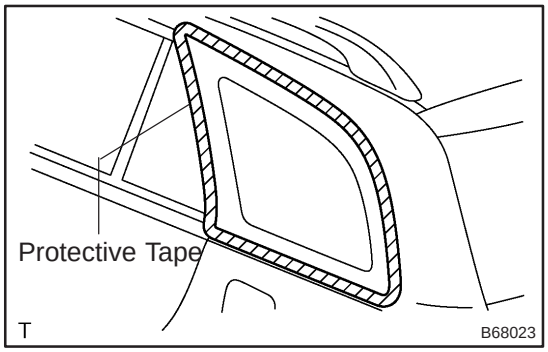
1. REMOVE REAR WINDOW SIDE GARNISH LH (See page 76–54)

(a) Remove the rear door opening trim weatherstrip LH
(b) Remove the rear door scuff plate.
(c) Remove the tonneau cover.
(d) Remove the deck board.
(e) Remove the deck floor box rear.
(f) Remove the deck floor box.
(g) Remove the deck floor box front.
(h) Remove the rear floor finish plate.
(i) Remove the roof headlining retainer front.
(j) Remove the luggage compartment trim hook No. 2.
(k) Remove the deck trim side board.
(l) Remove the roof side garnish inner.
(m) Remove the rear window side garnish.



2. REMOVE QUARTER WINDOW ASSY LH

(a) Disconnect the connectors.
(b) Pass a piano wire between the vehicle body and glass from the interior.
(c) 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.

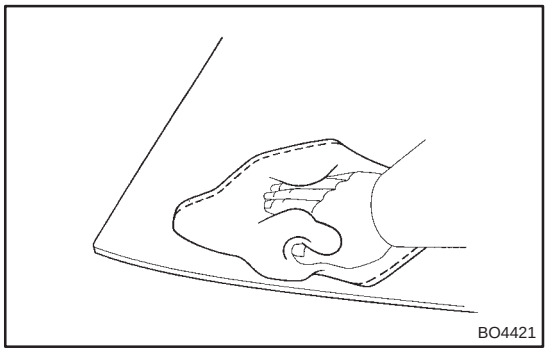
NOTICE:

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

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

NOTICE:

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

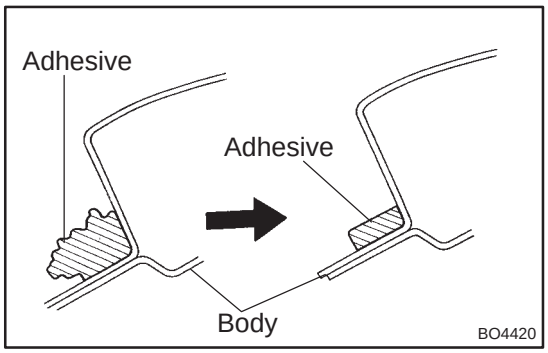


3. CLEAN QUARTER WINDOW ASSY LH

(a) Clean the outer circumference of the glass with white gasoline.

NOTICE:

- **Do not touch the glass surface after cleaning it.**



4. INSTALL QUARTER WINDOW ASSY LH

(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.

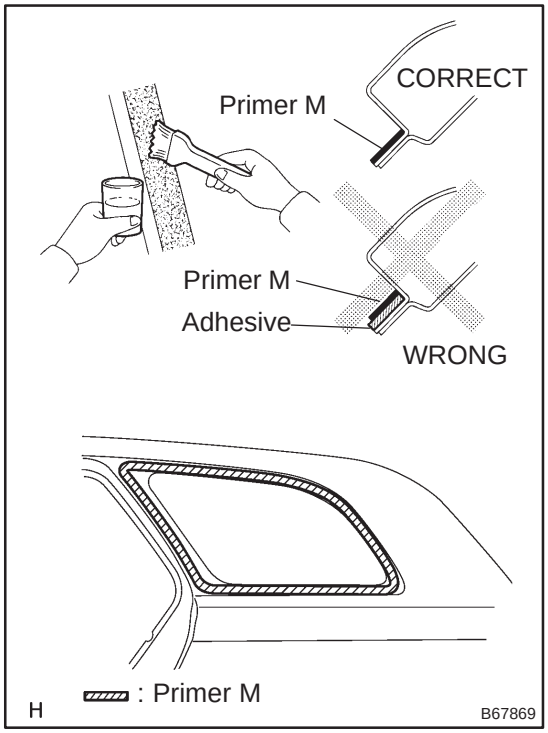
HINT:

Leave as much adhesive on the body as possible.

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

HINT:

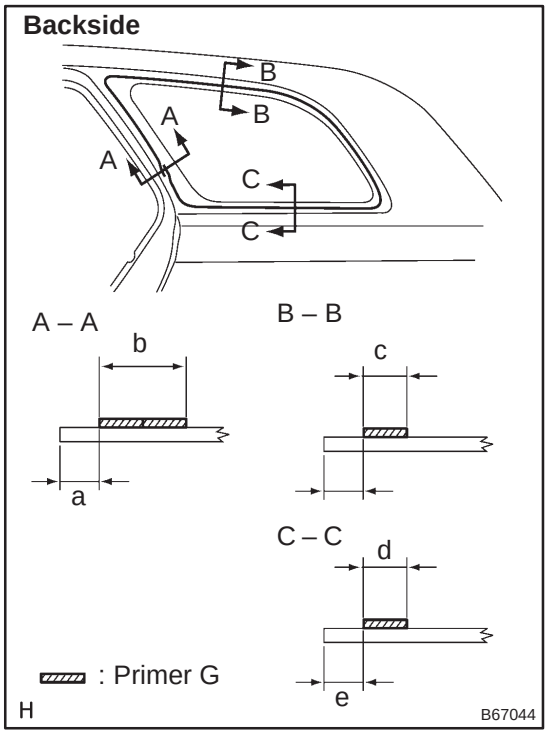
Even if all the adhesive has been removed, clean the body.



(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.

Standard dimension:

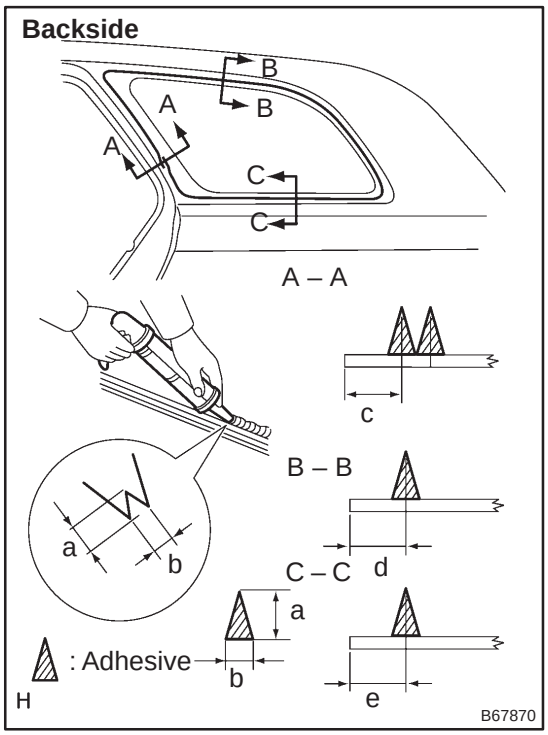
a	5.5 mm (0.217 in.)
b	19.0 mm (0.748 in.)
c	11.0 mm (0.433 in.)
d	11.0 mm (0.433 in.)
e	7.5 mm (0.295 in.)

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.**



(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)	1 hour 40 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.

Standard dimension:

a	12.5 mm (0.492 in.)
b	8.0 mm (0.315 in.)
c	9.5 mm (0.374 in.)
d	11.0 mm (0.433 in.)
e	11.5 mm (0.453 in.)

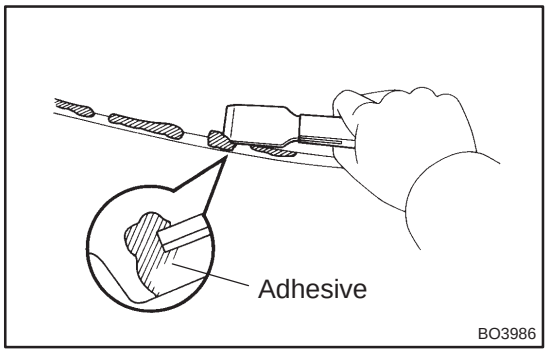
(e) Install the glass to the body.

(1) Hold the quarter window in place securely with protective tape or equivalent until the adhesive hardens.

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 the vehicle
35˚C (95˚F)	1 hour 30 minutes
20˚C (68˚F)	5 hours
5˚C (41˚F)	24 hours

5. INSPECT FOR LEAKS AND REPAIR

(a) Conduct a leak test after the adhesive has completely hardened.

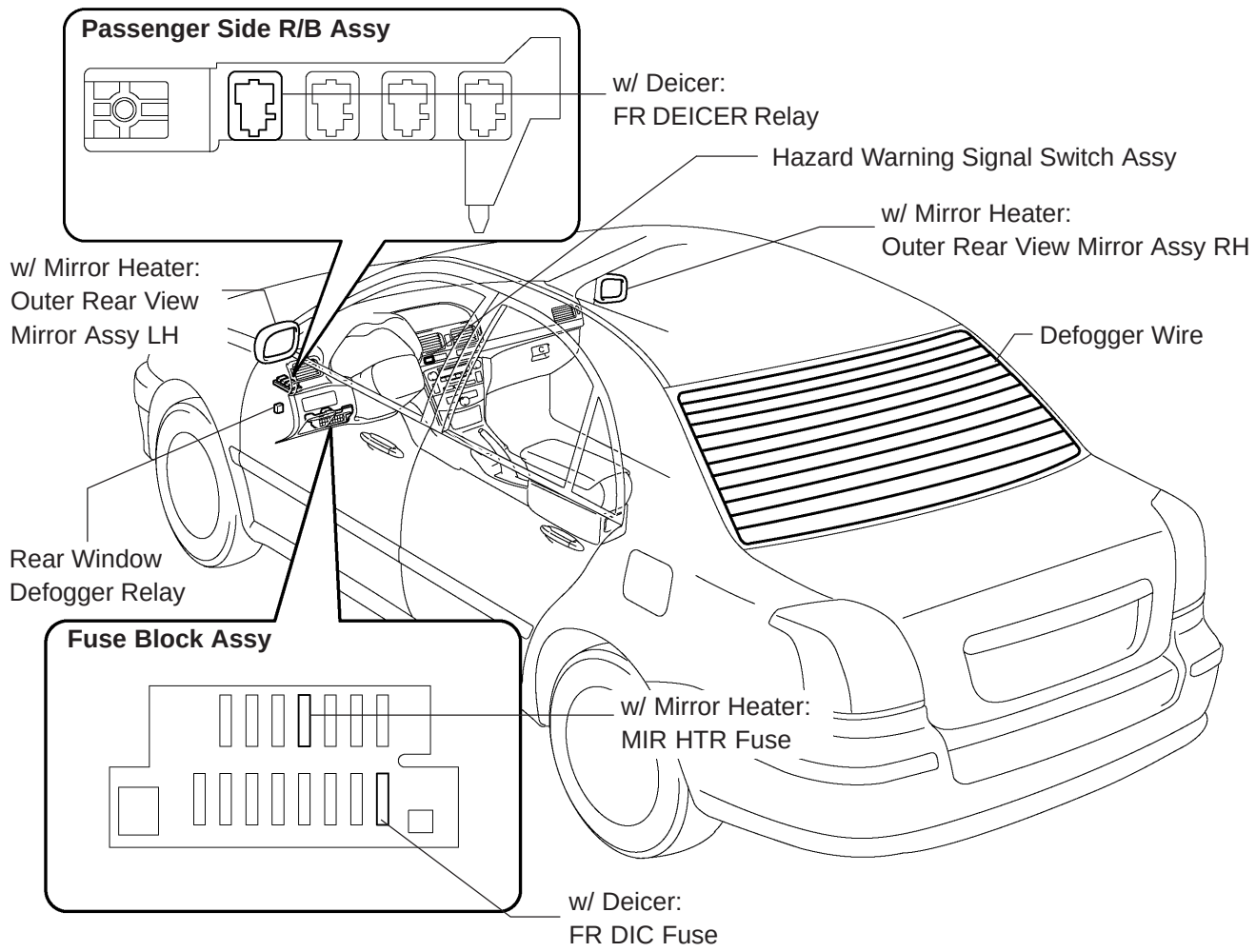
(b) Seal any leaks with auto glass sealer.

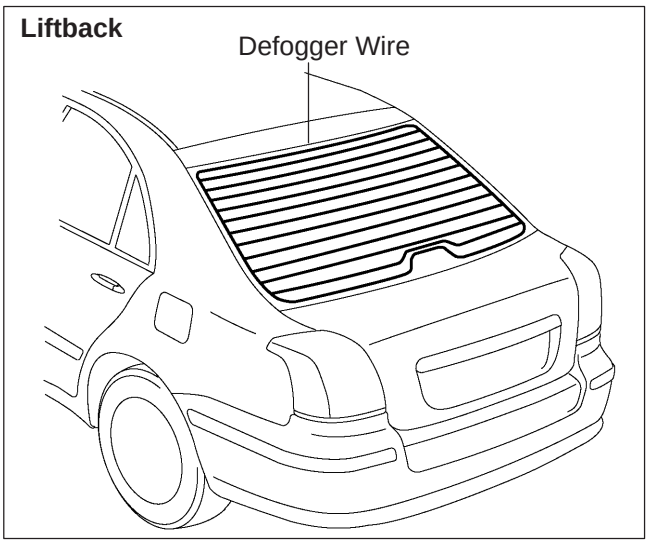
WINDOW DEFOGGER SYSTEM

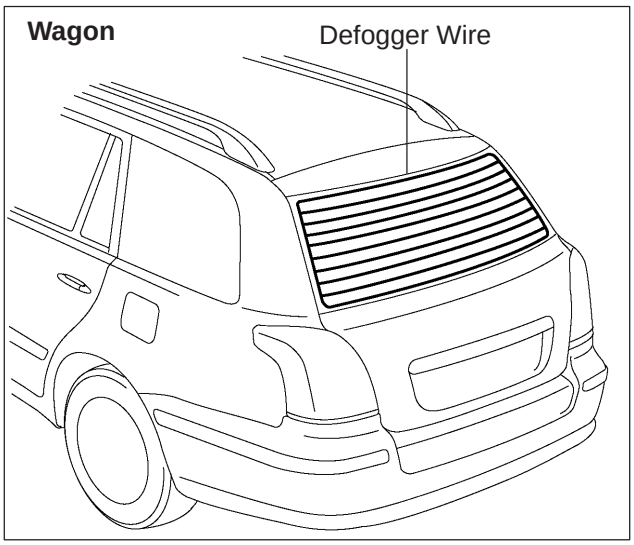
LOCATION

700TB–01

LHD Models







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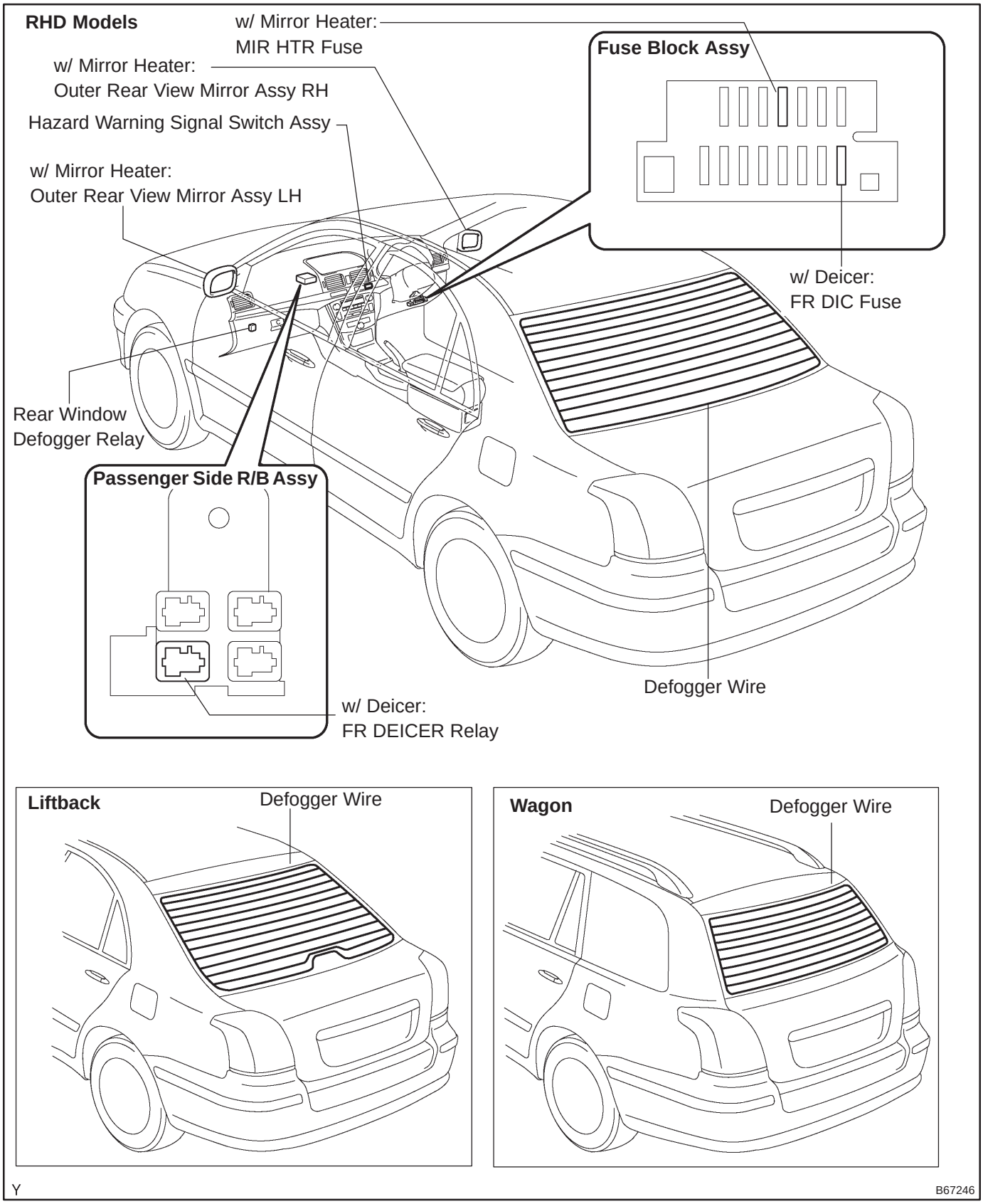
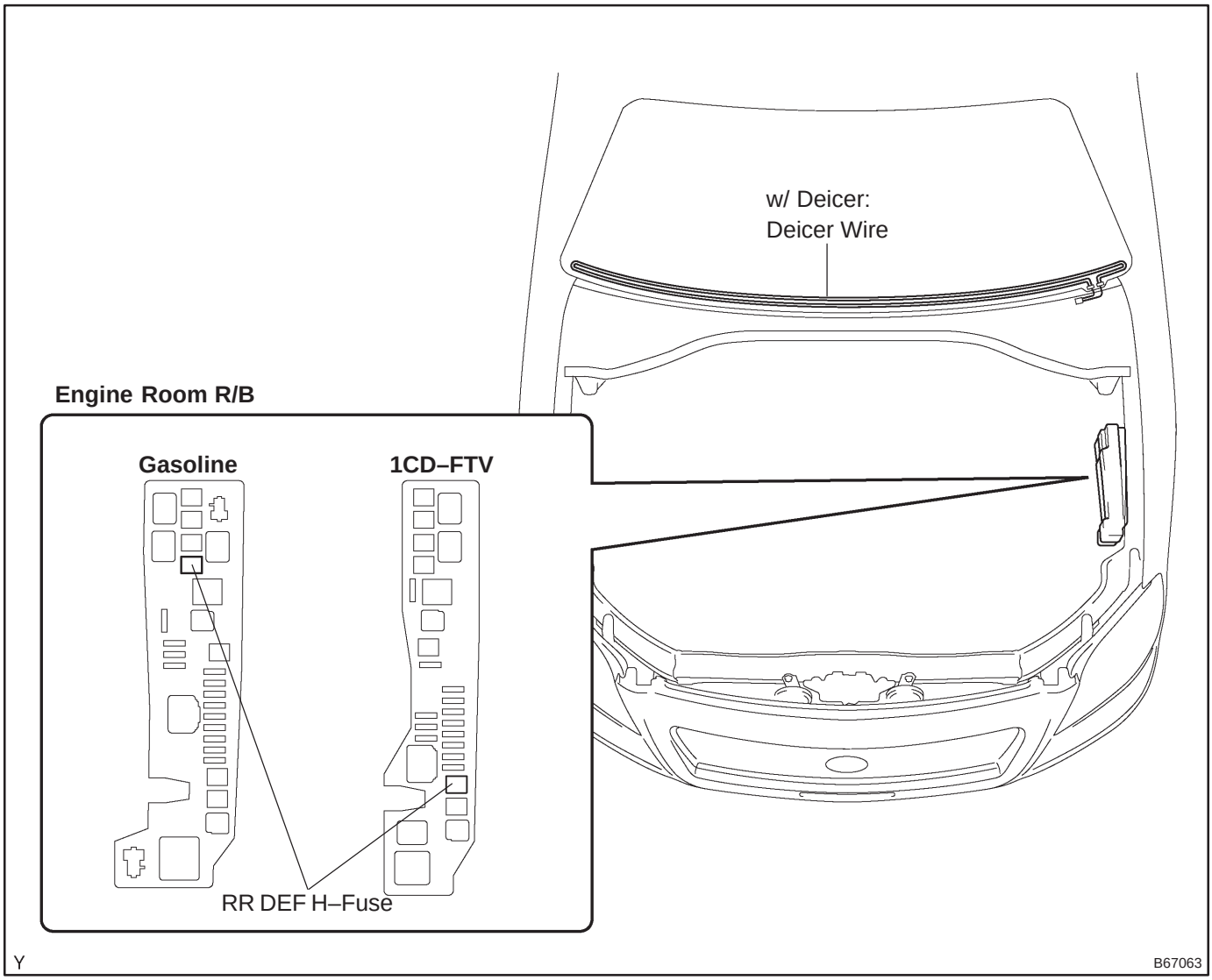

RHD Models
w/ Mirror Heater:
MIR HTR Fuse
w/ Mirror Heater:
Outer Rear View Mirror Assy RH
Hazard Warning Signal Switch Assy
w/ Mirror Heater:
Outer Rear View Mirror Assy LH
Fuse Block Assy
w/ Deicer:
FR DIC Fuse
Rear Window
Defogger Relay
Passenger Side R/B Assy
w/ Deicer:
FR DEICER Relay
Defogger Wire
Liftback
Defogger Wire
Wagon
Defogger Wire
Y
B67246


w/ Deicer:
Deicer Wire
Engine Room R/B
Gasoline
1CD–FTV
RR DEF H–Fuse
Y
B67063

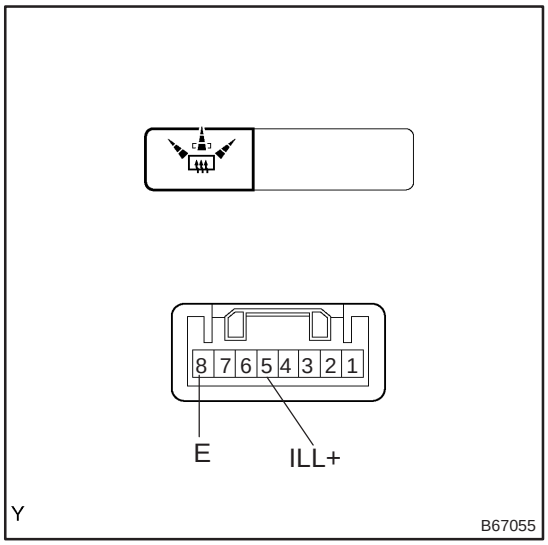
700TC–01

PROBLEM SYMPTOMS TABLE

Symptom	Suspected Area	See Page
w/ Deicer: Front window deicer doos not operate. (indicator lamp ON)	1. FR DIC fuse 2. FR DICER relay 3. Front window deicer wire 4. wire harness	68–1 70–50 – –
w/ Deicer: Front window deicer doos not operate. (indicator lamp OFF)	1. FR DIC fuse 2. FR DICER relay 3. Front window deicer wire 4. Front wiper deicer switch 5. Wire harness	68–1 70–50 70–50 – –
Rear window defogger does not operate (Indicator lamp ON)	1. RR DEF H–fuse 2. Rear window defogger relay 3. Rear window defogger wire 4. wire harness	68–1 70–50 – –
Rear window defogger does not operate (Indicator lamp OFF)	1. RR DEF H–fuse 2. Rear window defogger relay 3. Hazard warning signal switch assy 4. Rear window defogger wire 5. Wire harness	68–1 70–50 70–50 – –
w/ Mirror Heater: Mirror heater does not operate (Indicator lamp ON)	1. MIR HTR fuse 2. Outer rear view mirror assy 3. Wire harness	68–1 70–50 –
w/ Mirror Heater: Mirror heater does not operate (Indicator lamp OFF)	1. MIR HTR fuse 2. Front wiper deicer switch (w/ Front wiper deicer switch) 3. Hazard warning signal switch assy (w/o front wiper deicer switch) 4. Outer rear view mirror assy 5. Wire harness	68–1 70–50 70–50 70–50 –

700TD–01

INSPECTION



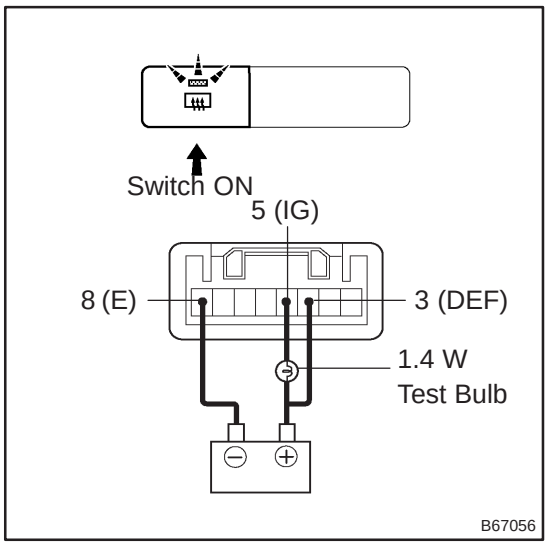
1. INSPECT REAR WINDOW DEFOGGER SWITCH (LHD Models)

(a) Check that the defogger switch illuminates.

Standard:

MeasurementCondition	SpecifiedCondition
Battery positive (+) → 5 (ILL+) Battery negative (–) → 8 (E)	Illuminates

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



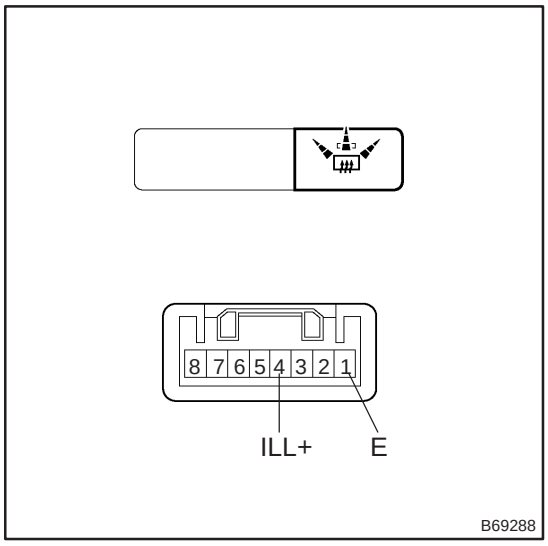
(b) Inspect operation of the defogger timer.

(1) Connect the positive (+) lead from the battery to terminal 3 and the negative (–) lead to terminal 8.

(2) Connect the positive (+) lead from the battery to terminal 4 through a 1.4 W test bulb.

(3) Push the rear window defogger switch ON, check the switch and the test bulb illuminate for 12 – 18 minutes, and then they go off.

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



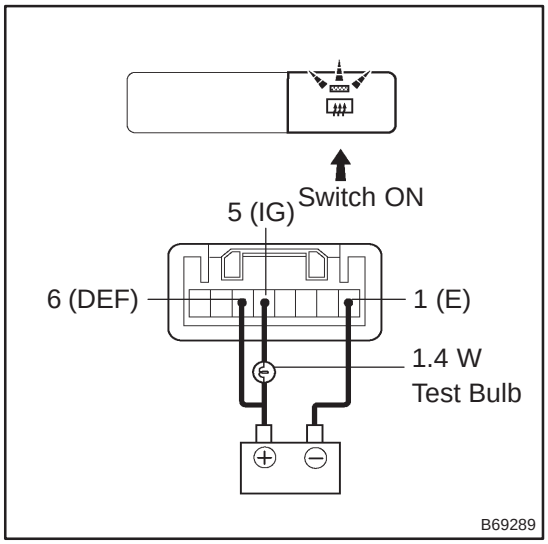
2. INSPECT REAR WINDOW DEFOGGER SWITCH (RHD Models)

(a) Check that the defogger switch illuminates.

Standard:

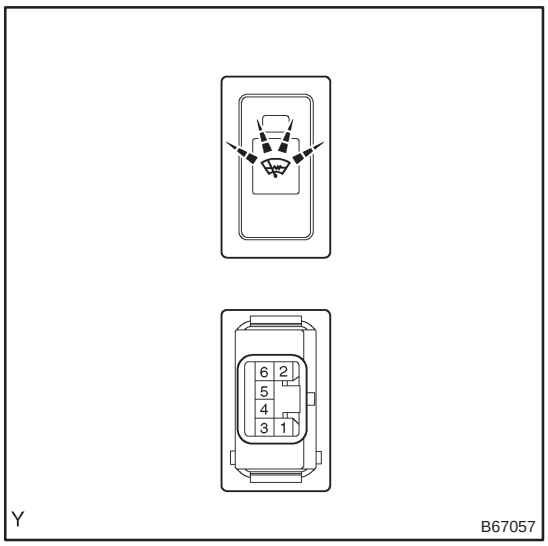
MeasurementCondition	SpecifiedCondition
Battery positive (+) → 4 (ILL+) Battery negative (–) → 1 (E)	Illuminates

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



(b) Inspect operation of the defogger timer.
(1) Connect the positive (+) lead from the battery to terminal 6 and the negative (–) lead to terminal 1.
(2) Connect the positive (+) lead from the battery to terminal 5 through a 1.4 W test bulb.
(3) Push the rear window defogger switch ON, check that the switch and the test bulb illuminate for 12 – 18 minutes, and then they go off.

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



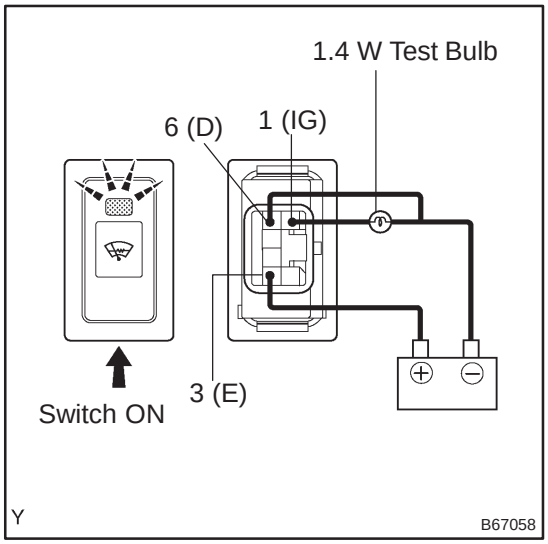
3. INSPECT FR WIPER DEICER SWITCH (W/ DEICER)

(a) check that the wiper deicer switch illuminates.

Standard:

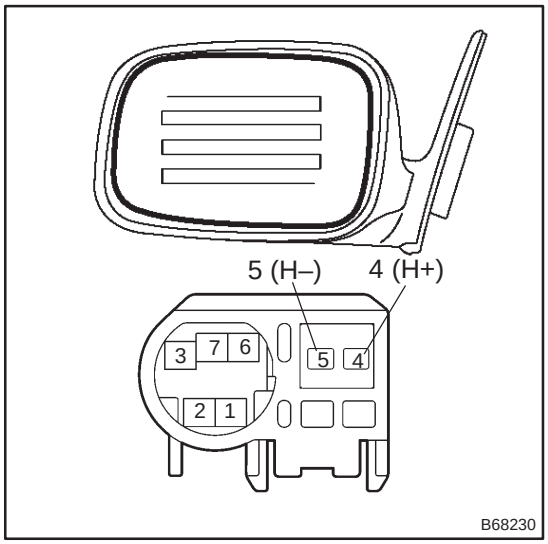
MeasurementCondition	SpecifiedCondition
Battery positive (+) → 1 Battery negative (–) → 4	Illuminates

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



(b) Inspect operation of the wiper deicer timer.
(1) Connect the positive (+) lead from the battery to terminal 6 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 wiper deicer switch ON, check that the switch and the test bulb illuminate for 12 – 18 minutes, and then they go off.

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



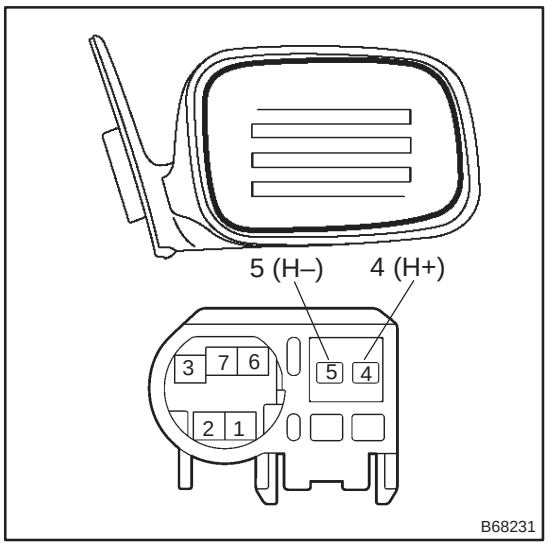
4. INSPECT OUTER REAR VIEW MIRROR ASSY LH (w/ OUTER MIRROR HEATER)

(a) Inspect operation of the mirror heater.

Standard:

MeasurementCondition	SpecifiedCondition
Battery positive (+) → H+ (4) Battery negative (–) → H– (5)	Mirror becomes warm

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



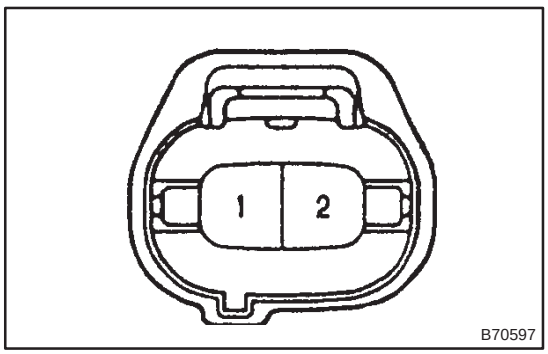
5. INSPECT OUTER REAR VIEW MIRROR ASSY RH (w/ OUTER MIRROR HEATER)

(a) Inspect operation of the mirror heater.

Standard:

MeasurementCondition	SpecifiedCondition
Battery positive (+) → H+ (4) Battery negative (–) → H– (5)	Mirror becomes warm

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



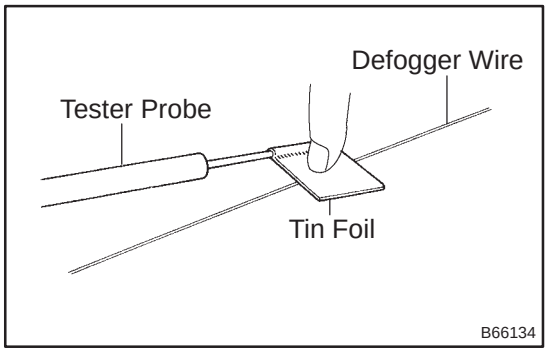
6. INSPECT FRONT WINDOW (DEICER WIRE) (W/ DEICER)

(a) Inspect the resistance of the deicer wire.

Standard:

Terminal No.	SpecifiedCondition
1 – 2	Below 1 Ω

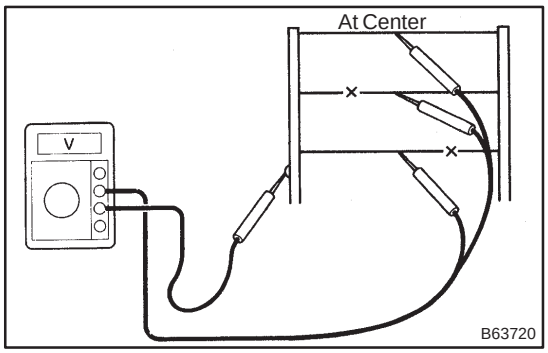
If the result is not as specified, replace the window.



7. INSPECT BACK WINDOW (DEFOGGER WIRE)

NOTICE:

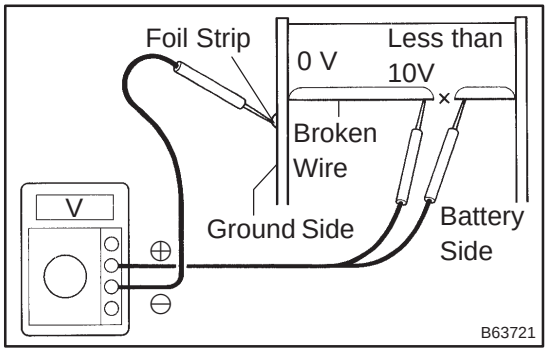
- **When cleaning the glass, wipe the glass along the wire using a soft and dry cloth. Take care not to damage the wires.**
- **Do not use detergents or glass cleaners including abrasive ingredients.**
- **When measuring voltage, wrap a piece of tin foil around the tip of the negative probe and press 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 or 0 V	Wire is broken



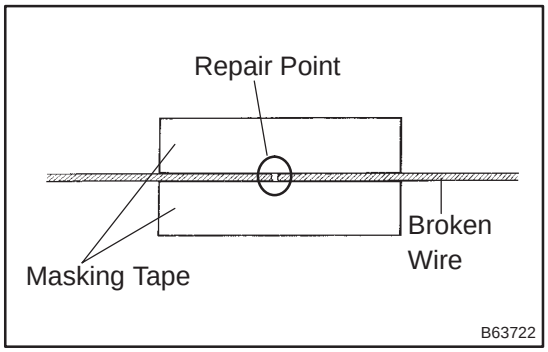
HINT:

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.

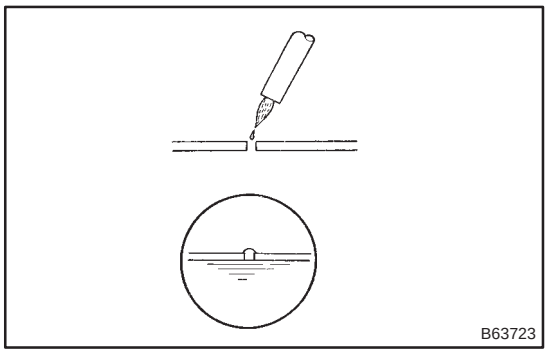
(d) Place the voltmeter positive (+) lead against the defogger wire on the battery side.
(e) Place the voltmeter negative (–) lead with the foil strip against the wire on the ground side.
(f) Slide the positive (+) lead from the battery side to the ground side.
(g) The point where the voltmeter deflects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



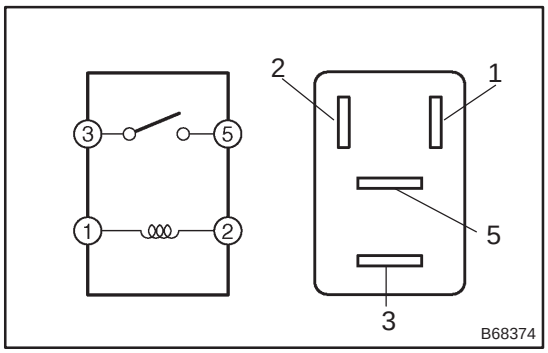
(h) If necessary, repair the defogger wire.
(1) Clean the broken wire tips with grease, wax and silicone remover.
(2) Place the masking tape along the both sides of the wire.
(3) Thoroughly mix the repair agent (Dupont paste No. 4817).



(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.



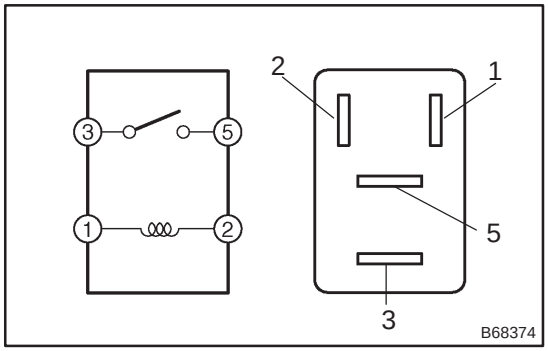
8. INSPECT FR WIPER DEICER RELAY (W/ DEICER)

(a) Inspect the resistance.

Standard:

Terminal Connection.	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 DEFOGGER RELAY

(a) Inspect the resistance.

Standard:

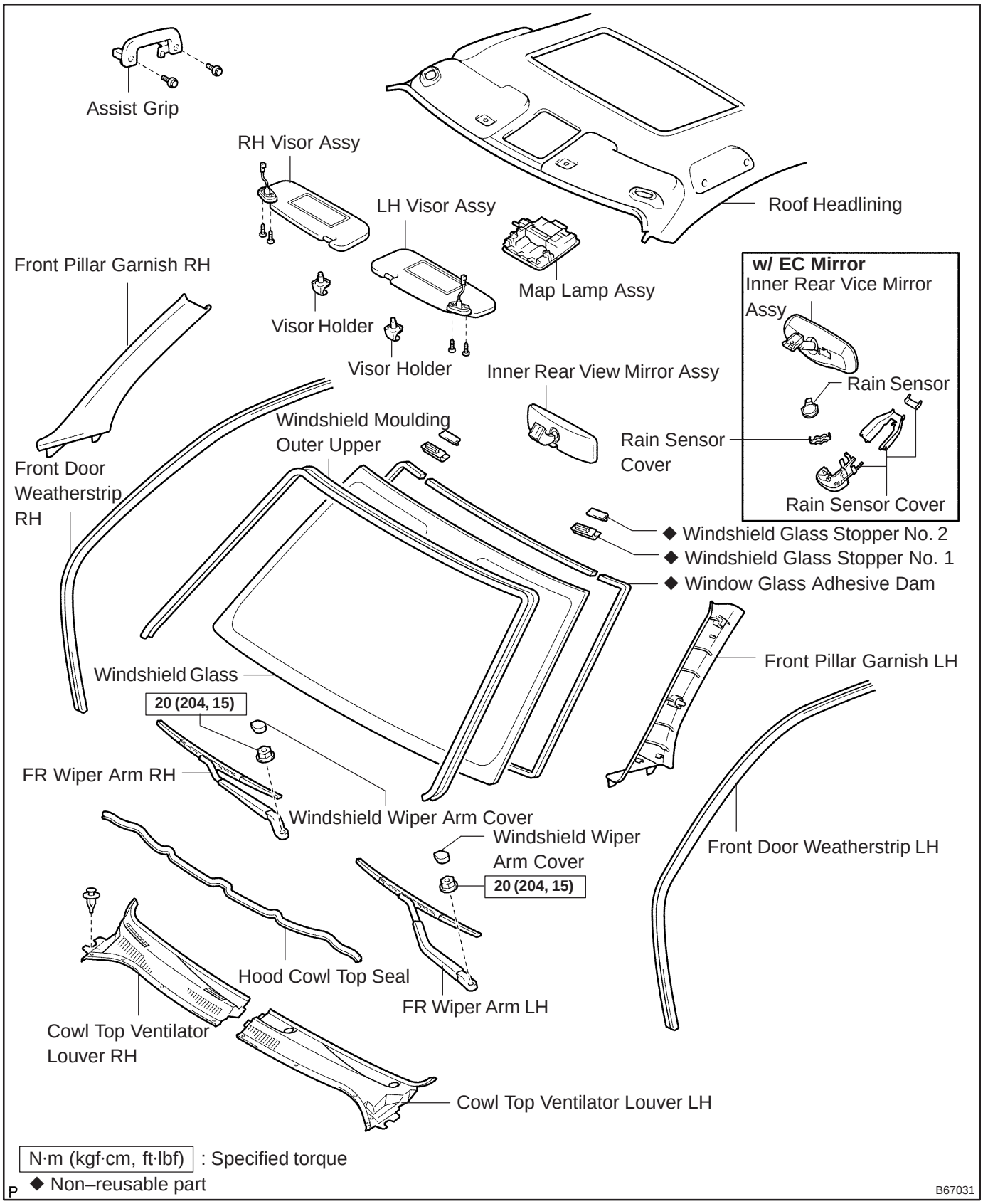
Terminal No.	Specified Condition
3 – 5	10 kΩ or higher
	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

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

WINDSHIELD GLASS

COMPONENTS

700T1–01



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 76–36 or 76–45 or 76–54)

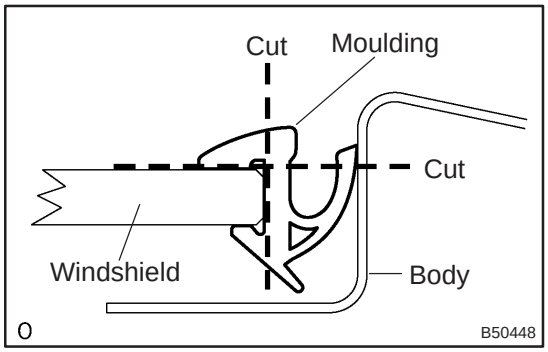
(a) Remove the front door weatherstrip LH.
(b) Remove the front door weatherstrip RH.
(c) Remove the front pillar garnish LH.
(d) Remove the front pillar garnish RH.
(e) Remove the LH visor.
(f) Remove the RH visor.
(g) Remove the assist grip.
(h) Remove the 2 visor holders.
(i) Remove the map lamp assy.
(j) Do not remove the roof headlining assy completely partially so that the windshield glass can be removed.

2. REMOVE INNER REAR VIEW MIRROR ASSY (See page 70–64)

3. REMOVE RAIN SENSOR (See page 66–26)

4. REMOVE COWL TOP VENTILATOR LOUVER (See page66–13)

(a) Remove the 2 windshield wiper arm covers.
(b) Remove the FR wiper arm LH.
(c) Remove the FR wiper arm RH.
(d) Remove the hood to cowl top seal.
(e) Remove the cowl top ventilator louver LH.
(f) Remove the cowl top ventilator louver RH.



5. REMOVE WINDSHIELD MOULDING OUTER UPPER

(a) Using a knife, cut off the moulding, as shown in the illustration.

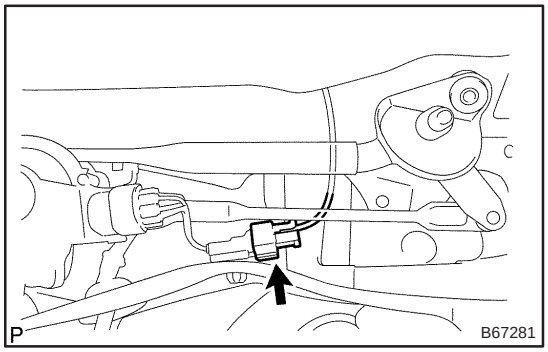
NOTICE:

Do not damage the body with the knife.

(b) Remove the remaining moulding.

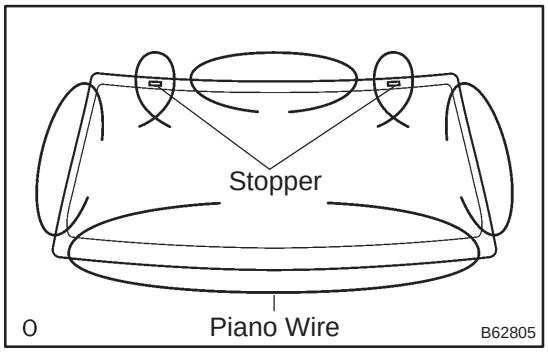
HINT:

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



6. DISCONNECT CONNECTOR (W/ DEICER)

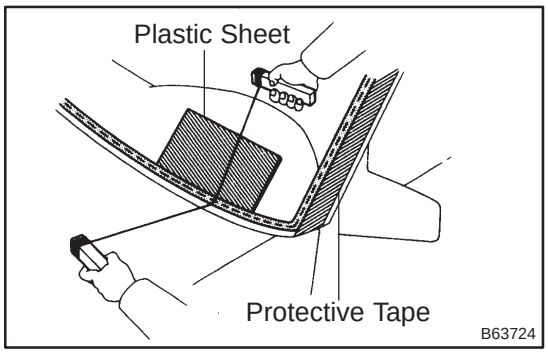
(a) Disconnect the deicer connector, as shown in the illustration.



7. 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.**

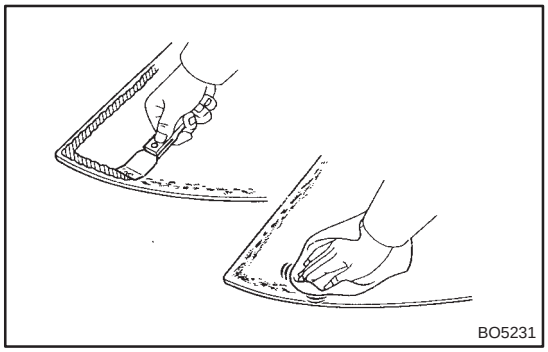
(c) Cut off the adhesive by pulling the piano wire around the glass.

(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.



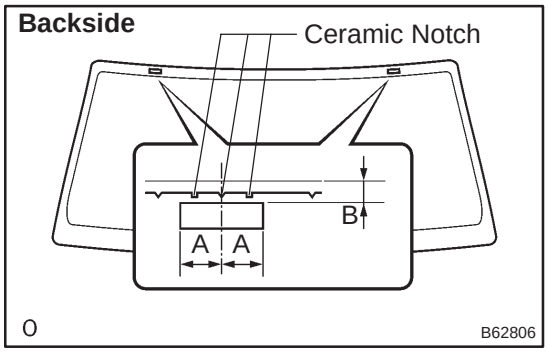
8. CLEAN WINDSHIELD GLASS

(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.**
- **Be careful not to damage the body.**
- **Even if using new glass, clean the glass with white gasoline.**



9. INSTALL WINDSHIELD GLASS STOPPER NO.2

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

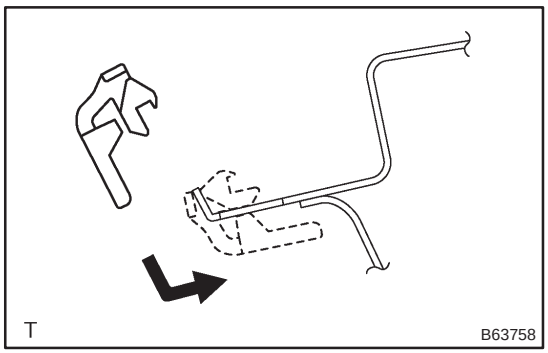
NOTICE:

- **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.

Standard dimension:

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



10. INSTALL WINDSHIELD GLASS STOPPER NO.1

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

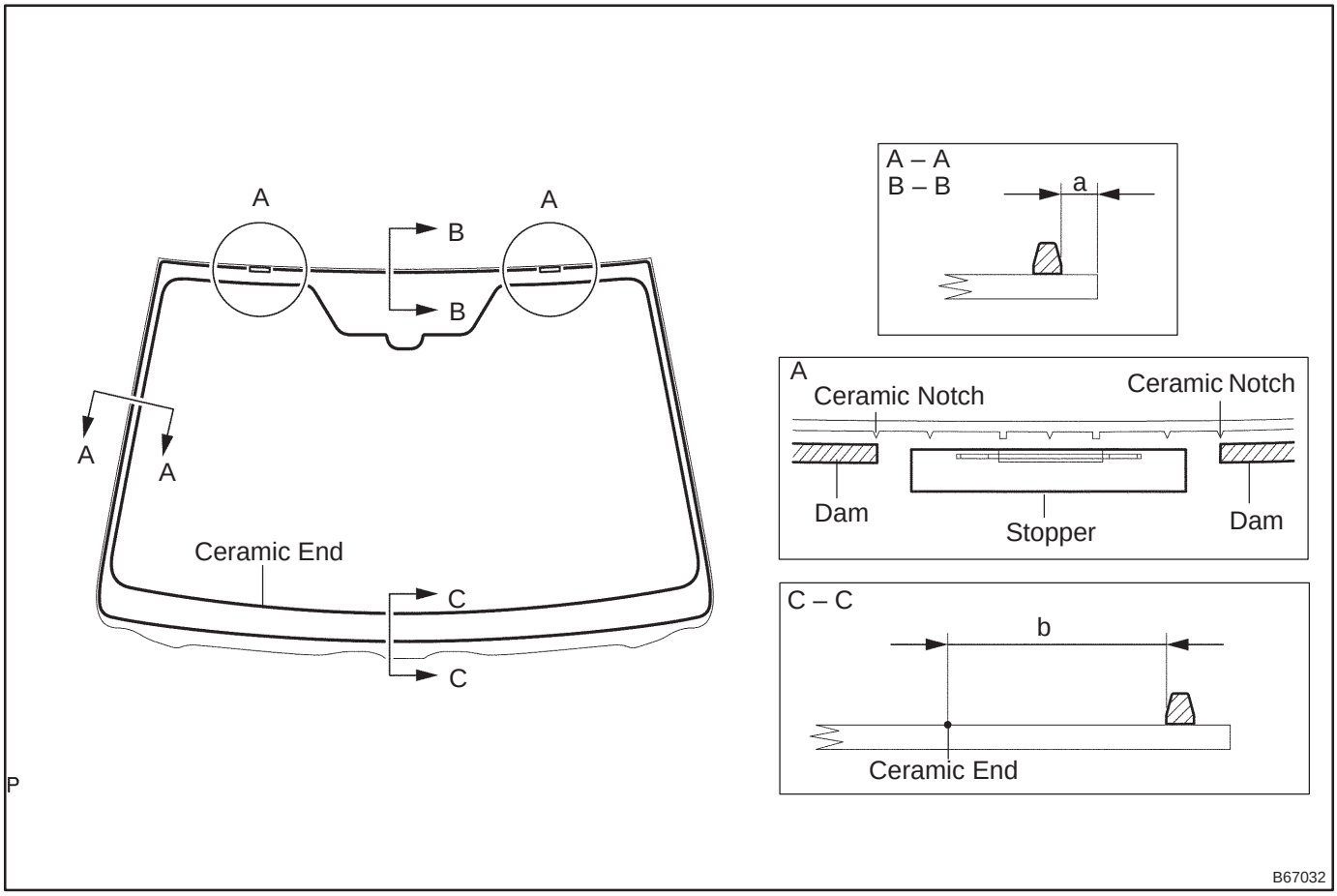
11. INSTALL WINDOW GLASS ADHESIVE DAM

(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.



Standard dimension:

a	7.0 mm (0.276 in.)
b	56.0 mm (2.205 in.)

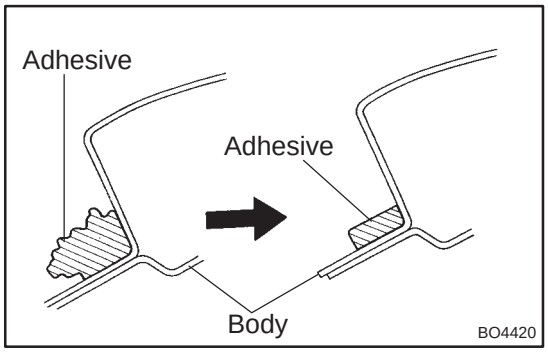
12. INSTALL WINDSHIELD MOULDING OUTER UPPER

(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.



13. 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.

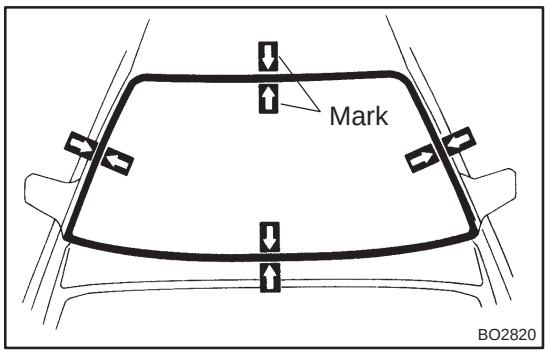
HINT:

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.

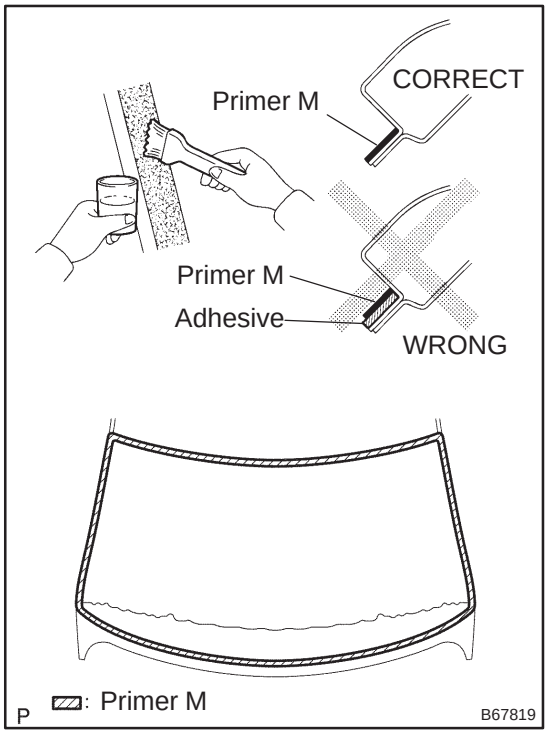
NOTICE:

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

HINT:

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

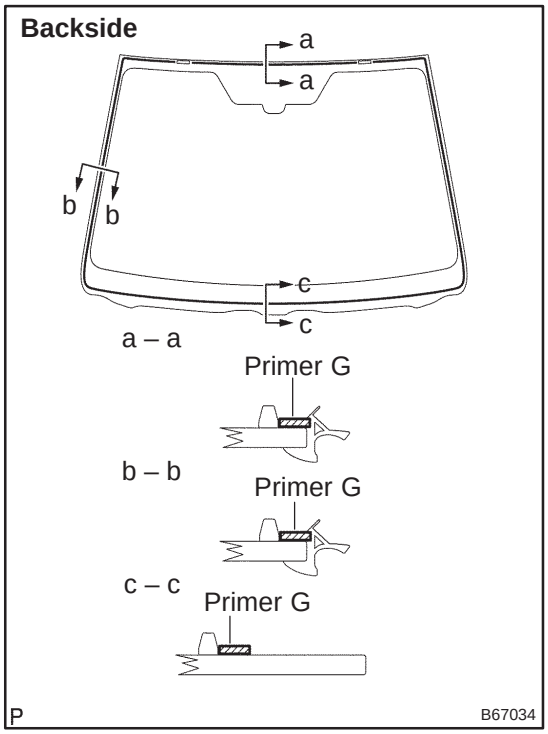
(4) Remove the glass.



(c) Using a brush, coat the exposed part of the vehicle body 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.**



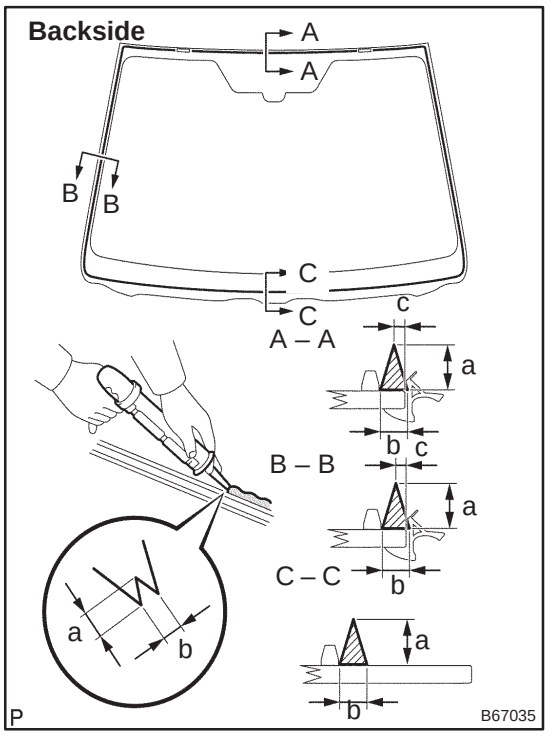
(d) Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G.

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.**



(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:

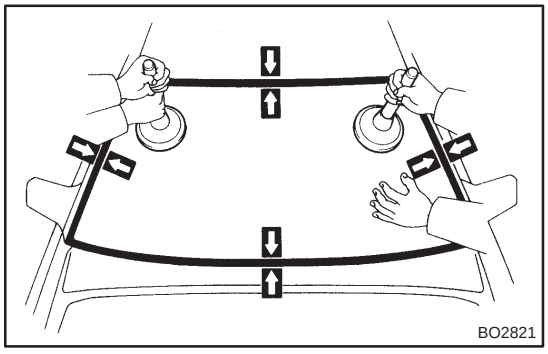
Temperature	Tackfree Time
35°C (95°F)	15 minutes
20°C (68°F)	1 hour 40 minutes
5°C (41°F)	8 hours

(2) Load the sealer gun with the cartridge.

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

Standard dimension:

a	12.5 mm (0.492 in.)
b	8.0 mm (0.315 in.)
c	3.0 mm (0.118 in.)



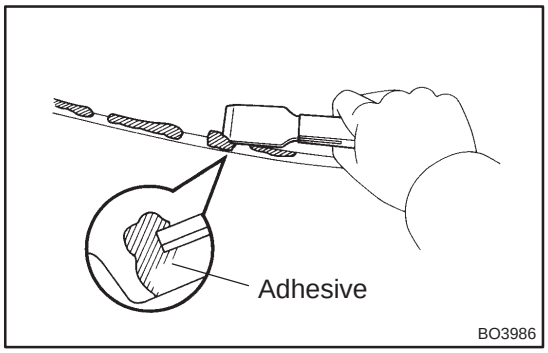
(f) Install the glass to the body.

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

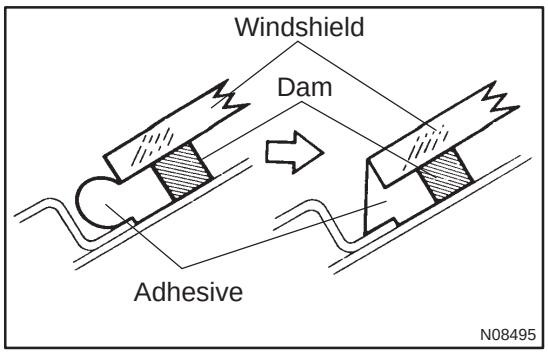
NOTICE:

- **Allow the primer coating to dry for 3 minutes or more.**
- **Check that the stoppers are attached to the vehicle body correctly.**
- **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 hour 30 minutes
20˚C (68˚F)	5 hours
5˚C (41˚F)	24 hours

14. INSPECT FOR LEAKS AND REPAIR

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