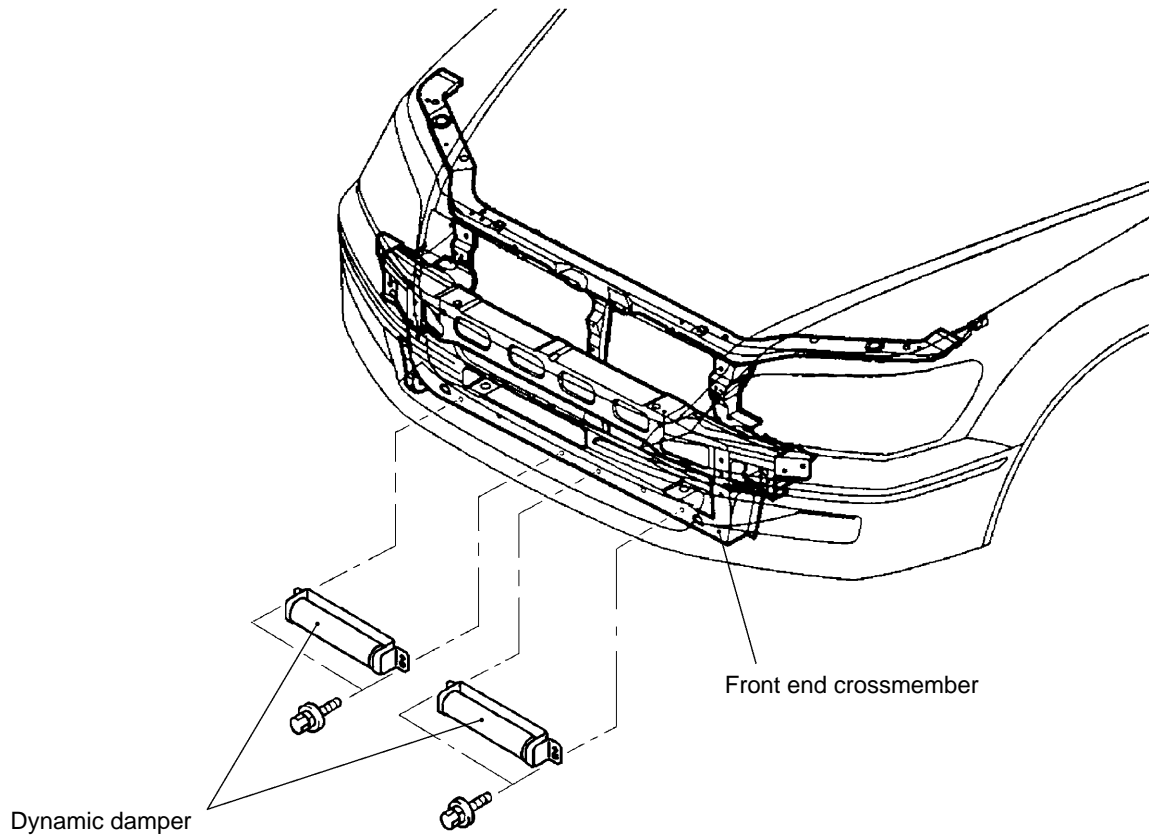


DYNAMIC DAMPER

DISASSEMBLY AND REASSEMBLY

MAIN

Group
42

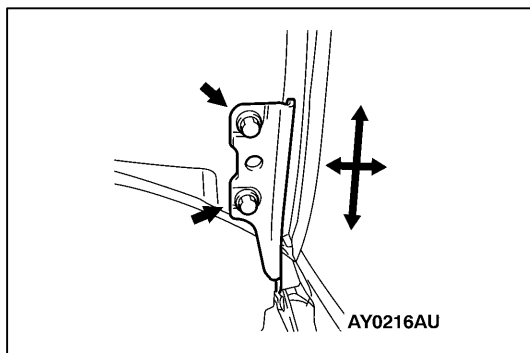


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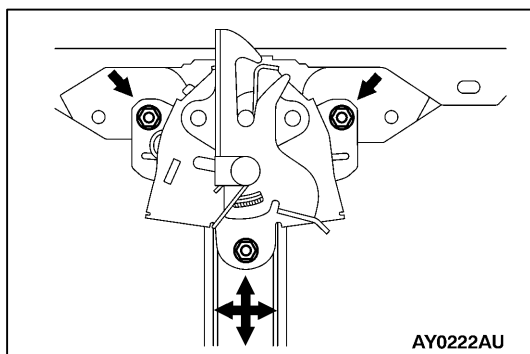
HOOD

ON-VEHICLE SERVICE

ADJUSTMENT OF CLEARANCE AROUND HOOD

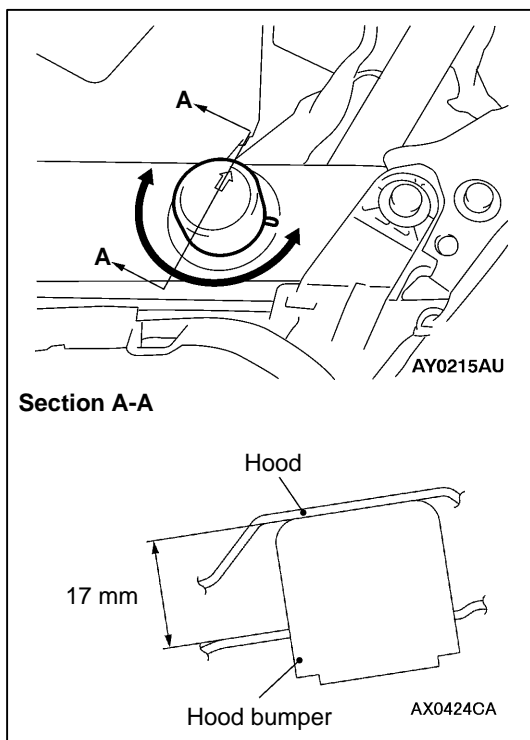


ADJUSTMENT OF ALIGNMENT OF HOOD STEPPED PORTION AND HOOD STRIKER



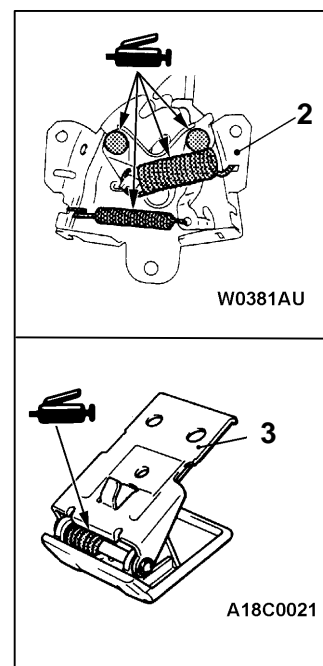
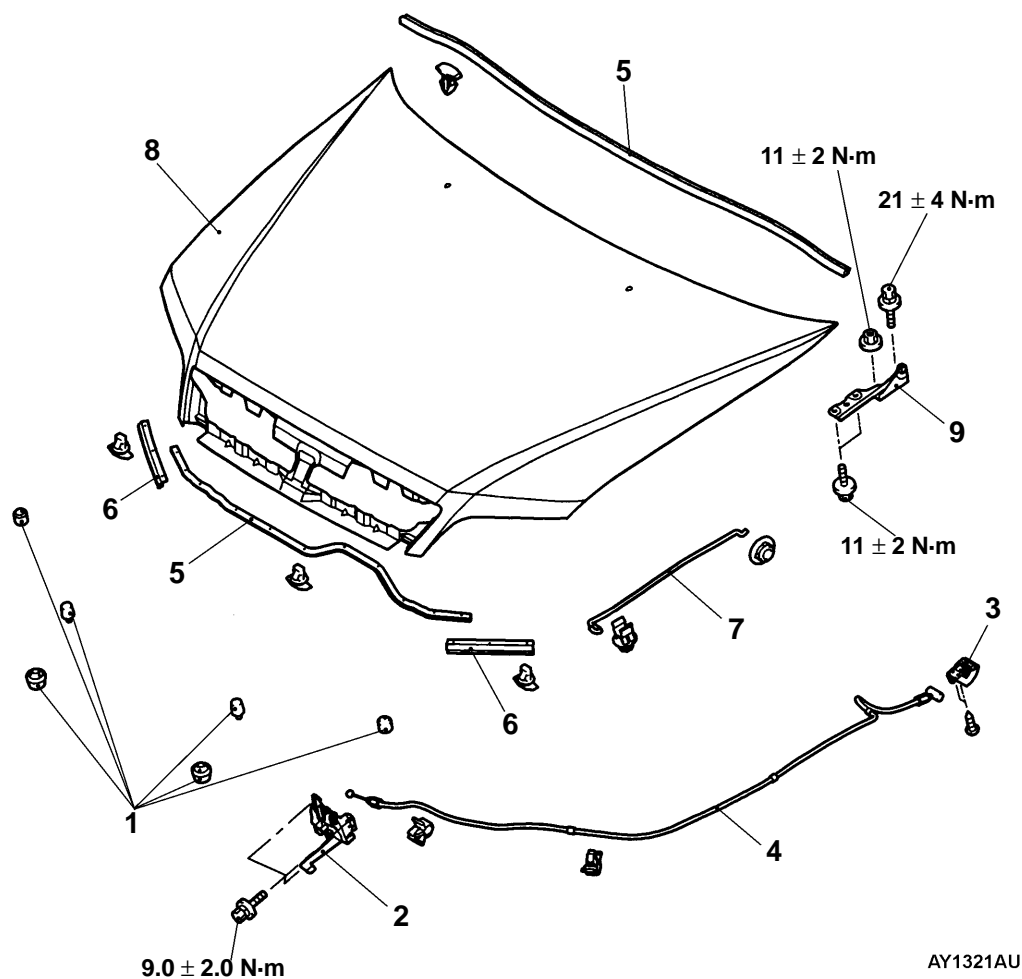
ADJUSTMENT OF HOOD HEIGHT

With the marker as guide, turn the hood bumper to adjust the hood height. The hood bumper height changes approx. 3mm (new hood bumper with one complete turn).



HOOD

REMOVAL AND INSTALLATION



1. Hood bumper
2. Hood latch

Hood lock release cable removal steps

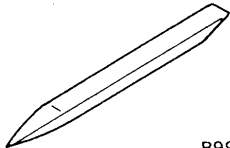
3. Hood lock release handle
4. Hood lock release cable

Hood removal steps

5. Hood weatherstrip
6. Head lamp weatherstrip
 - Washer hose
 - Radiator grill
7. Hood support rod
8. Hood
9. Hood hinge

FENDER

SPECIAL TOOL

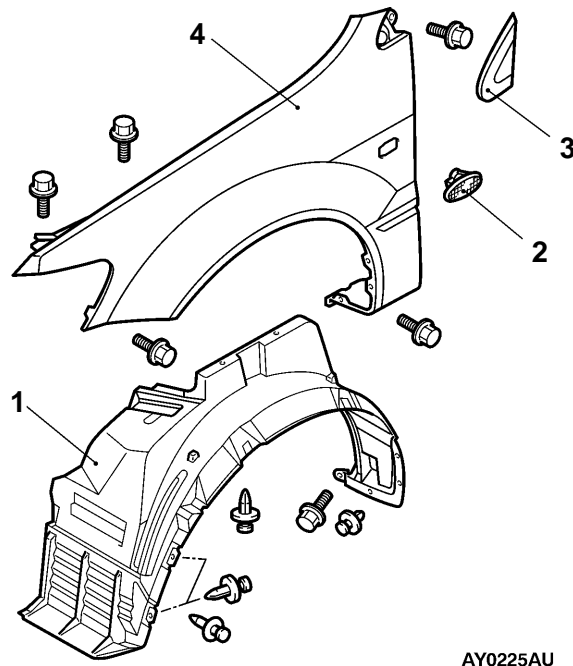
Tool	Number	Name	Use
 B990784	MB990784	Ornament remover	Side turn signal lamp removal

FENDER

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operations

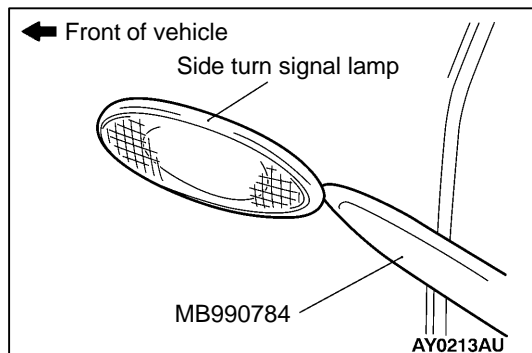
- [Front Bumper Removal and Installation](#)
- [Front Deck Garnish Removal and Installation](#)



Removal steps

- Front side air dam (Refer to Aeroparts.)
1. Splash shield

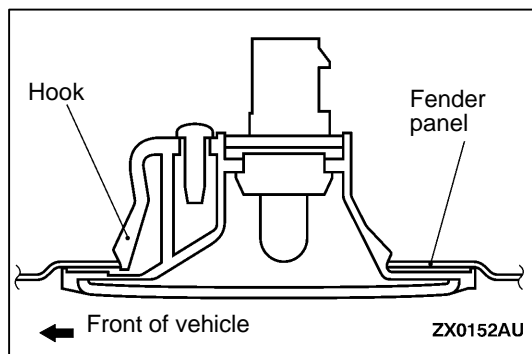
- ◀A▶ ▶A▶
- 2. Side turn signal lamp
 - 3. Deck garnish (Refer to [Garnish](#))
 - 4. Fender



REMOVAL SERVICE POINT

◀A▶ SIDE TURN SIGNAL LAMP REMOVAL

Use the special tool to unhook the fender, and then remove the side turn signal lamp.



INSTALLATION SERVICE POINT

▶A◀ SIDE TURN SIGNAL LAMP INSTALLATION

Engage the hook into the fender panel, and then install the side turn signal lamp.

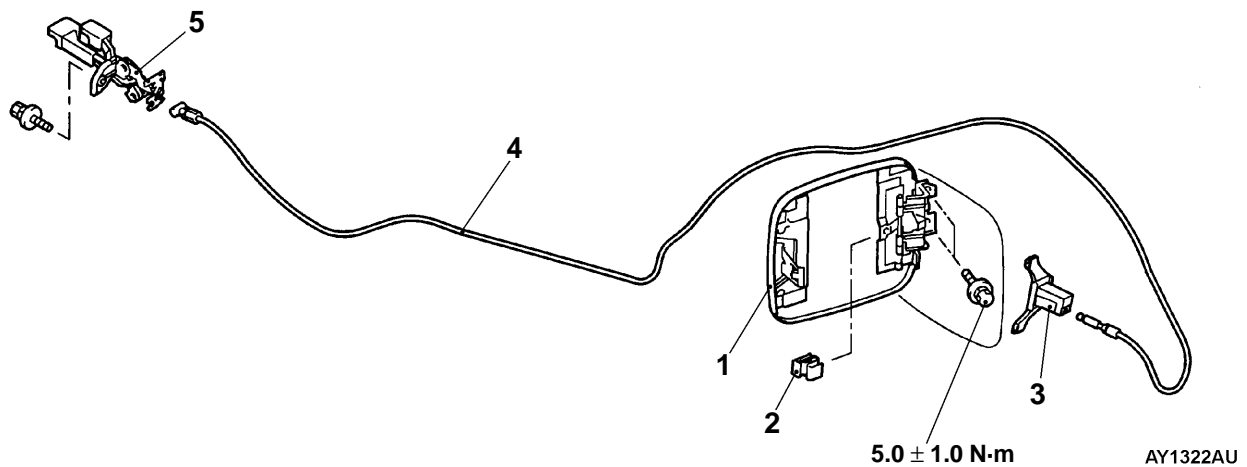
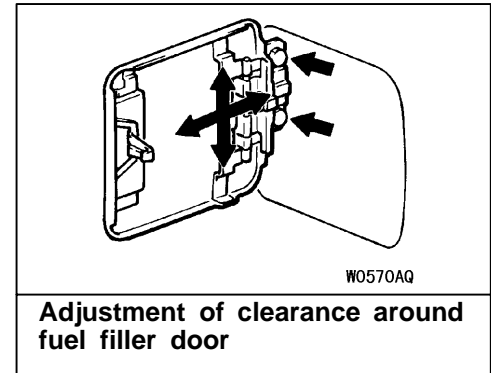
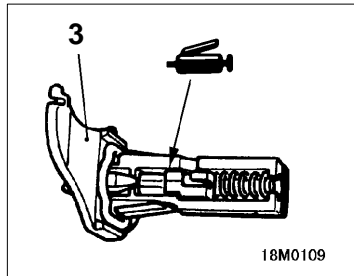
FUEL FILLER DOOR

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operations

- [Rear Seat Removal and Installation](#).
- Front Scuff Plate (Driver's Seat Side), Rear Scuff Plate (Driver's Seat Side), Center Pillar Lower Trim (Driver's

Seat Side), Quarter Trim (Driver's Seat Side) Removal and Installation (Refer to [Trim](#).)



Removal steps

1. Fuel filler door panel assembly
2. Clip
3. Fuel filler door hook assembly

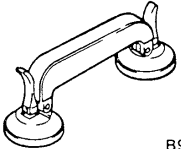
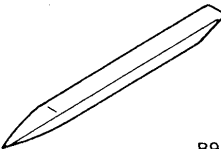
4. Fuel filler door lock release cable
5. Fuel filler door lock release handle

WINDOW GLASS

ADHESIVE

Items	Specified adhesive
Windshield	3M ATD Part No. 8609 Super Fast Urethane Auto Glass Sealant or equivalent
Rear window glass	

SPECIAL TOOLS

Tool	Number	Name	Use
 B990480	MB990480	Window glass holder	Removal and Installation of Window Glass
 B990784	MB990784	Ornament remover	Rear Window Lower Molding Removal

WINDOW REPAIR

The following glass parts are installed with a liquid urethane adhesive method:

- Windshield
- Rear window glass

ITEMS NEEDED

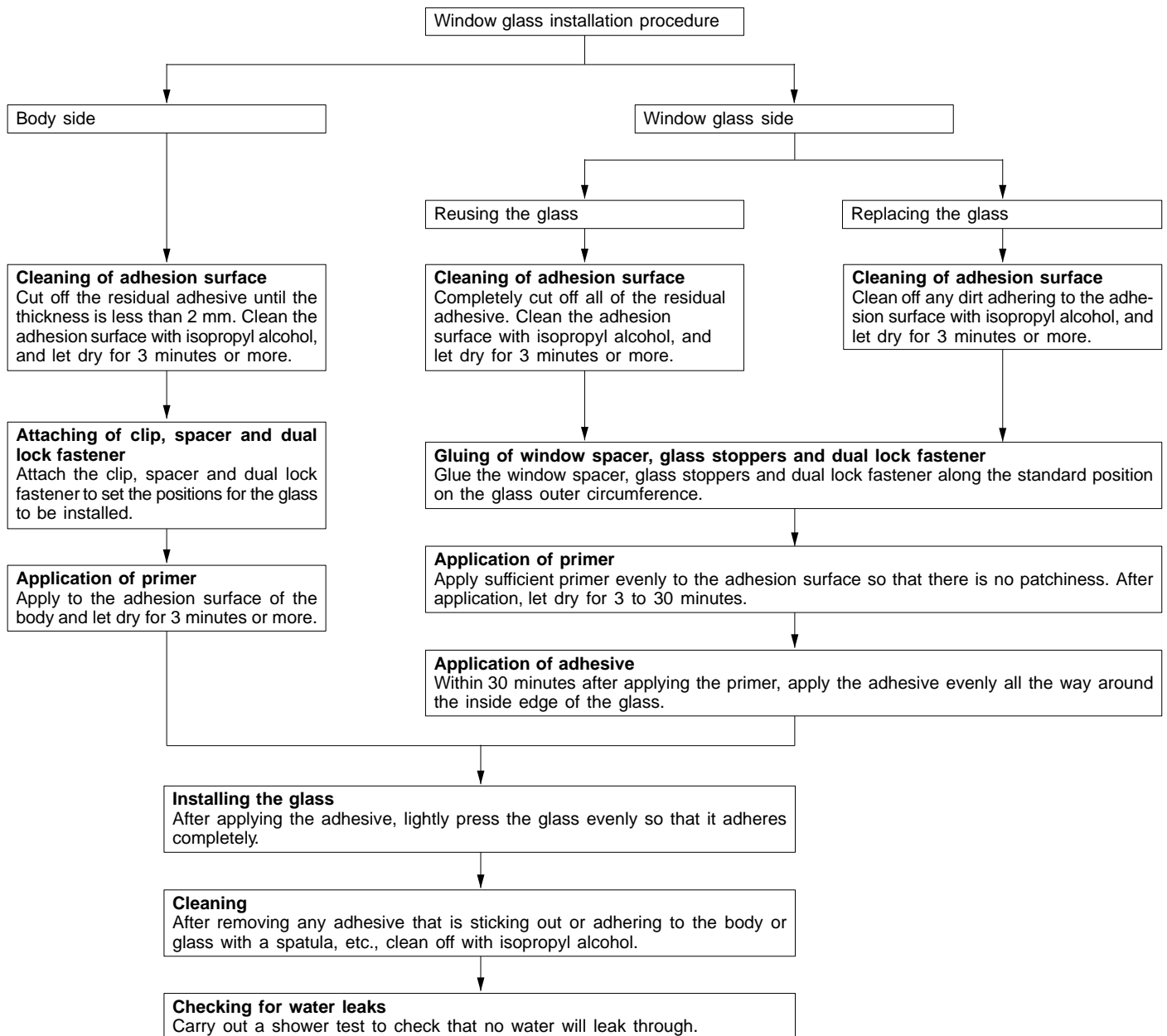
Name	Remarks
Adhesive	3M ATD Part No. 8609 Super Fast Urethane Auto Glass Sealant or equivalent
Primer	3M ATD Part No. 8608 Super Fast Urethane Primer or equivalent
Spacers	Available as service part
Dam	Available as service part
Anti-rust solvent (or Tectyl 506T...Valvoline Oil Company)	For rust prevention
Isopropyl alcohol	For grease removal from bonded surface
Steel piano wire	Dia. x length...0.6mm x 1m For cutting adhesive
Adhesive gun	For pressing-out adhesive

HANDLING OF AUTO WINDOW SEALER

Keep the sealant in a cool place, not exposed to the direct rays of the sun. Do not place any heavy article on the sealant nor press it, otherwise it will become deformed. Avoid storing the sealant for more than 6 months, because it will lose its sealing effect.

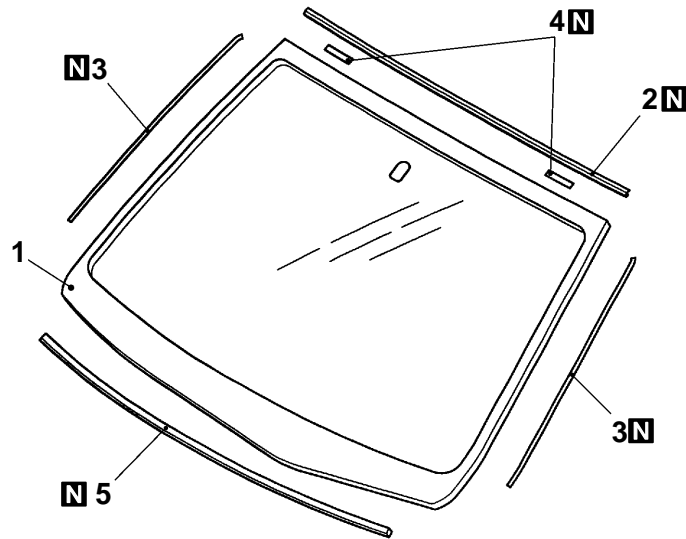
BODY PINCH-WELD FLANGE SERVICING

Before servicing the body pinch-weld flange, remove old adhesive completely. If the flange requires painting, bake it after painting is completed.

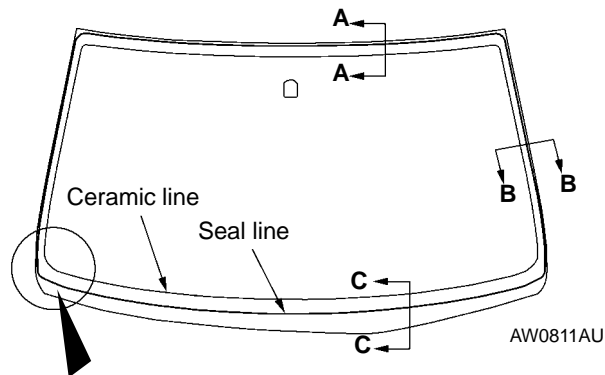
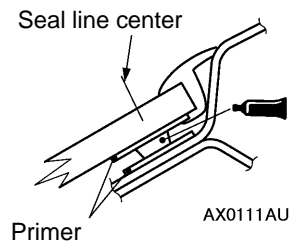
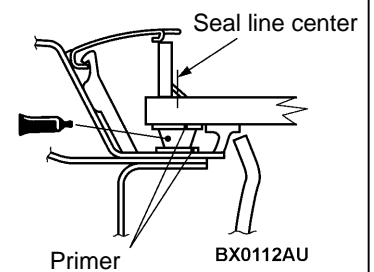
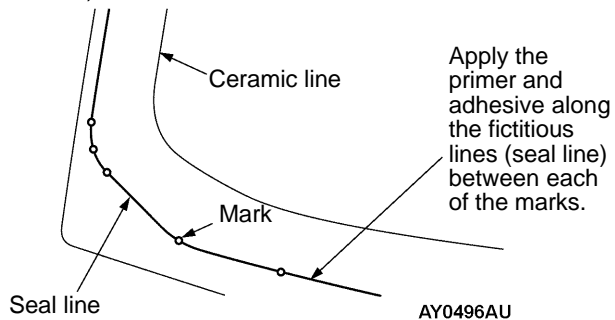
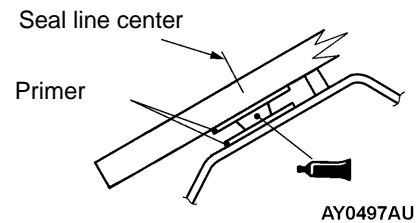
WORKING PROCESS

WINDSHIELD**REMOVAL AND INSTALLATION****Pre-removal and Post-installation Operations**

- Deck Garnish Removal and Installation
- Front Pillar Trim Removal and Installation
- Headlining Removal and Installation



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**Section A-A****Section B-B****Section C-C**

Sealant: 3M ATD Part No. 8609 Super Fast Urethane Auto Glass Sealant or equivalent

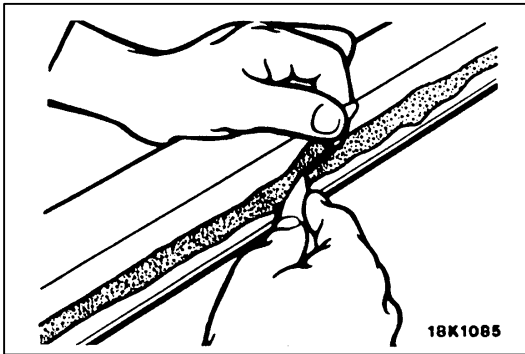
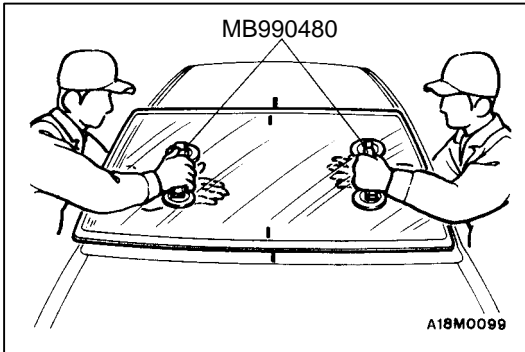
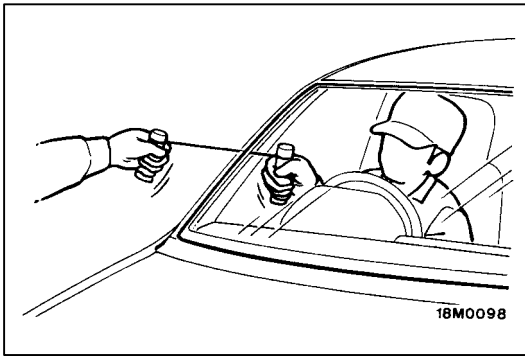
Removal steps

- Roof drip molding

1. Windshield
2. Windshield molding



3. Window dam
4. Glass stopper
5. Windshield spacer



REMOVAL SERVICE POINTS

◀A▶ WINDSHIELD AND WINDSHIELD MOLDING REMOVAL

1. In order to protect the body (paint surface), apply cloth tape to all body areas around the installed windshield.
2. Using a sharp-point drill, make hole in the windshield adhesive.
3. Pass the piano wire from the inside of the vehicle through the hole.
4. Pull the piano wire alternately from the inside and outside along the windshield to cut the adhesive.

Caution

Do not let the piano wire touch the edge of the windshield.

5. Make alignment marks on the windshield and body.
6. Use the special tool to remove the windshield.

7. Use a knife to cut away remaining adhesive to 2 mm thick or less around the entire circumference of the body flange.
8. Smooth the flange surface.

Caution

(1) Use care not to remove more adhesive than necessary, or the adhesive could weaken.

(2) Be careful also not to damage the paintwork on the body surface with the knife. If the paintwork is damaged, repair the damaged area with repair paint or anti-rust agent.

9. When reusing windshield, remove the remaining adhesive on the windshield completely. Then, decrease the windshield with isopropyl alcohol.
10. Decrease the body flange in the same way.

Caution

Before the next job, leave the decreased parts for 3 minutes or more to dry. Also, do not touch any cleaned surface.

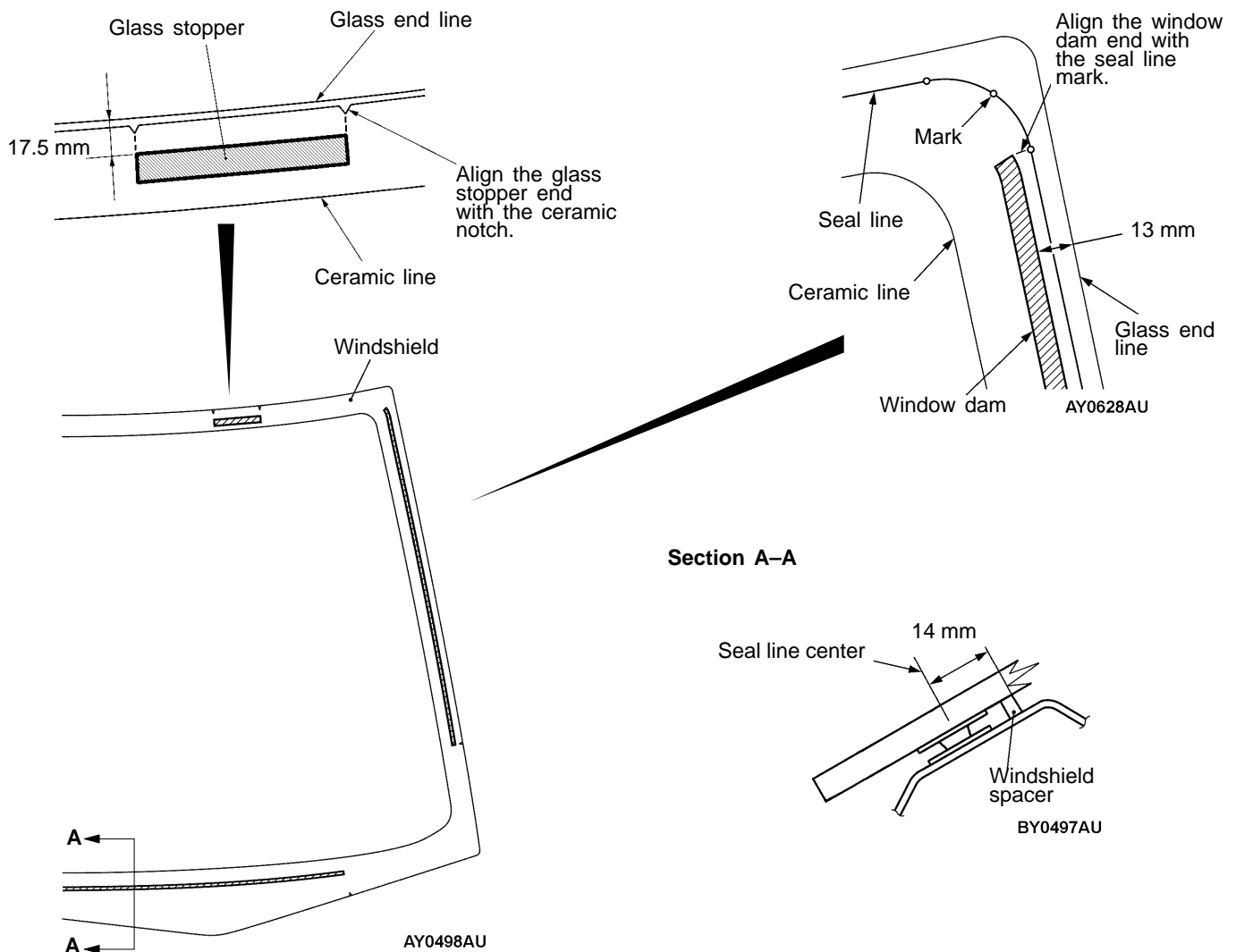
INSTALLATION SERVICE POINTS**► A ◀ WINDSHIELD SPACER/GLASS STOPPER/WINDOW DAM/WINDSHIELD MOLDING/WINDSHIELD INSTALLATION**

1. When replacing the windshield, first align it with the body, and then matchmark them.
2. Use isopropyl alcohol to clean the inside edge of the windshield and the body flange.
3. Use a primer dampened to apply to the specified area around the windshield and the body evenly.
4. After applying the primer, let it dry for at least 3 minutes.

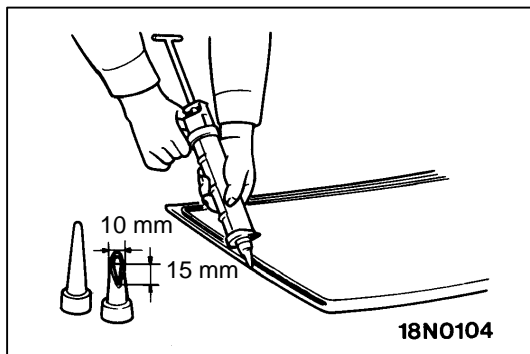
Caution

- (1) The primer strengthens the adhesive effect, so that be sure to apply it. However, an excessively thick application will weaken the adhesive effect.
- (2) Never touch the primer-applied surface.

5. Ensuring that there are no bends or warpages inside the windshield, position the glass stopper and windshield spacer on the specified position.

Glass stopper, windshield spacer and window dam installation position

6. Install the windshield molding.



7. Within thirty minutes after the primer application, fill a sealant gun with the adhesive, and then apply the adhesive evenly around the windshield.

NOTE

Cut the tip of the sealant gun nozzle into a V shape to simplify adhesive application.

8. After applying adhesive, align the mating marks on the windshield and the body, and then lightly press the windshield evenly so that it adheres completely.
9. After removing any adhesive that is sticking out or adhering to the windshield or body with spatula, etc., clean with isopropyl alcohol. Install the windshield molding before the adhesive sets. After the windshield is installed, wait until the adhesive sets. (Refer [rest time after the job.](#))
10. Adhere the windshield to the body, and install the [roof drip molding](#) promptly before the adhesive sets.
11. After adhering the windshield to the body, wait 30 minutes or more, and then test for water leakage.

Caution

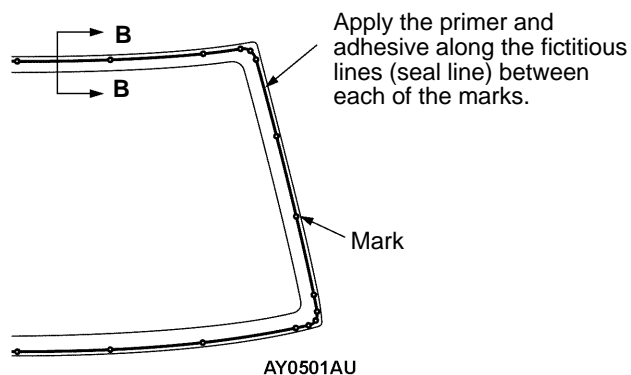
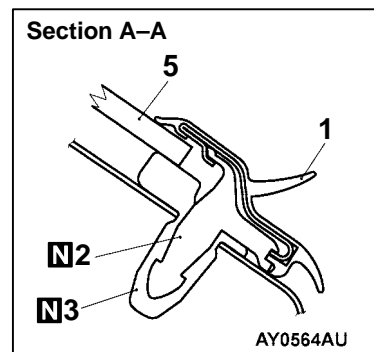
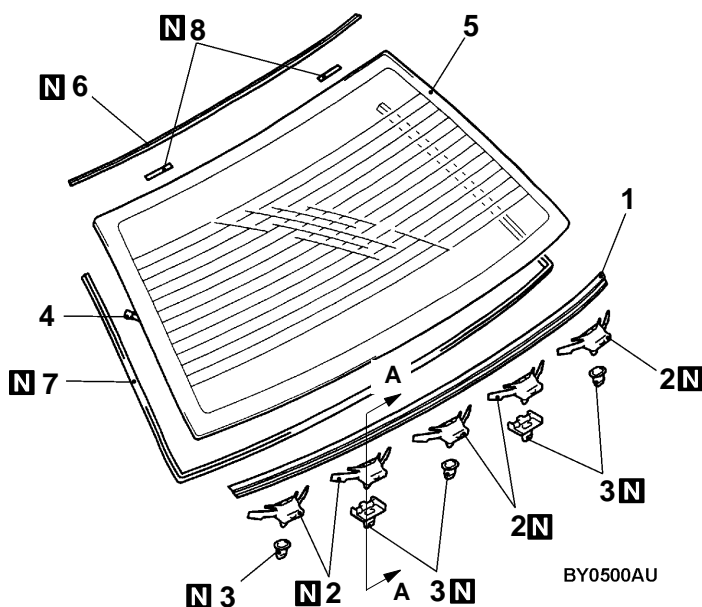
- (1) Move the vehicle carefully.
- (2) When testing for water leakage, do not pinch the end of the hose to spray the water.

REAR WINDOW GLASS

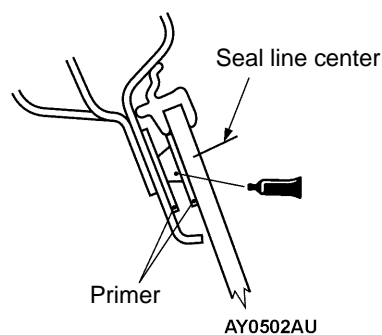
REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operations

- Rear Wiper Motor Assembly Removal and Installation
- Rear Shelf Trim Removal and Installation
- Rear Pillar Trim Removal and Installation
- High Mount Stop Lamp Assembly Removal and Installation
- Headlining Removal and Installation



Section B-B



Sealant: 3M ATD Part No. 8609 Super Fast Urethane Auto Glass Sealant or equivalent

Removal steps

- [Roof drip molding](#)

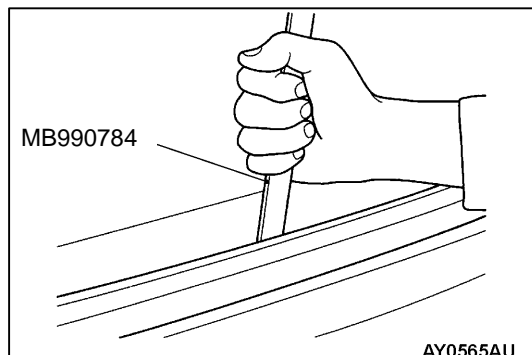
1. Rear window lower molding
2. Clip
3. Grommet
4. Connecting the harness connector

◀A▶ ▶B▶

◀B▶

▶A▶
▶A▶
▶A▶
▶A▶

5. Rear window glass
6. Rear window upper molding
7. Window dam
8. Glass stopper

**REMOVAL SERVICE POINTS****◀A▶ REAR WINDOW LOWER MOLDING REMOVAL**

Pry the rear window lower molding off with the special tool.

Caution

Do not use a deformed molding.

◀B▶ REAR WINDOW GLASS REMOVAL

Remove the rear window glass in the same manner as for the [windshield](#).

INSTALLATION SERVICE POINTS**▶A◀ GLASS STOPPER/WINDOW DAM/REAR WINDOW UPPER MOLDING/REAR WINDOW GLASS INSTALLATION**

1. When replacing the rear window glass, first align it with the body, and then matchmark them.
2. Use isopropyl alcohol to clean the inside edge of the rear window glass and the body flange.
3. Use a primer dampened sponge to apply the primer to the specified area around the rear window glass and the body evenly.
4. After applying the primer, let it dry for at least 3 minutes.

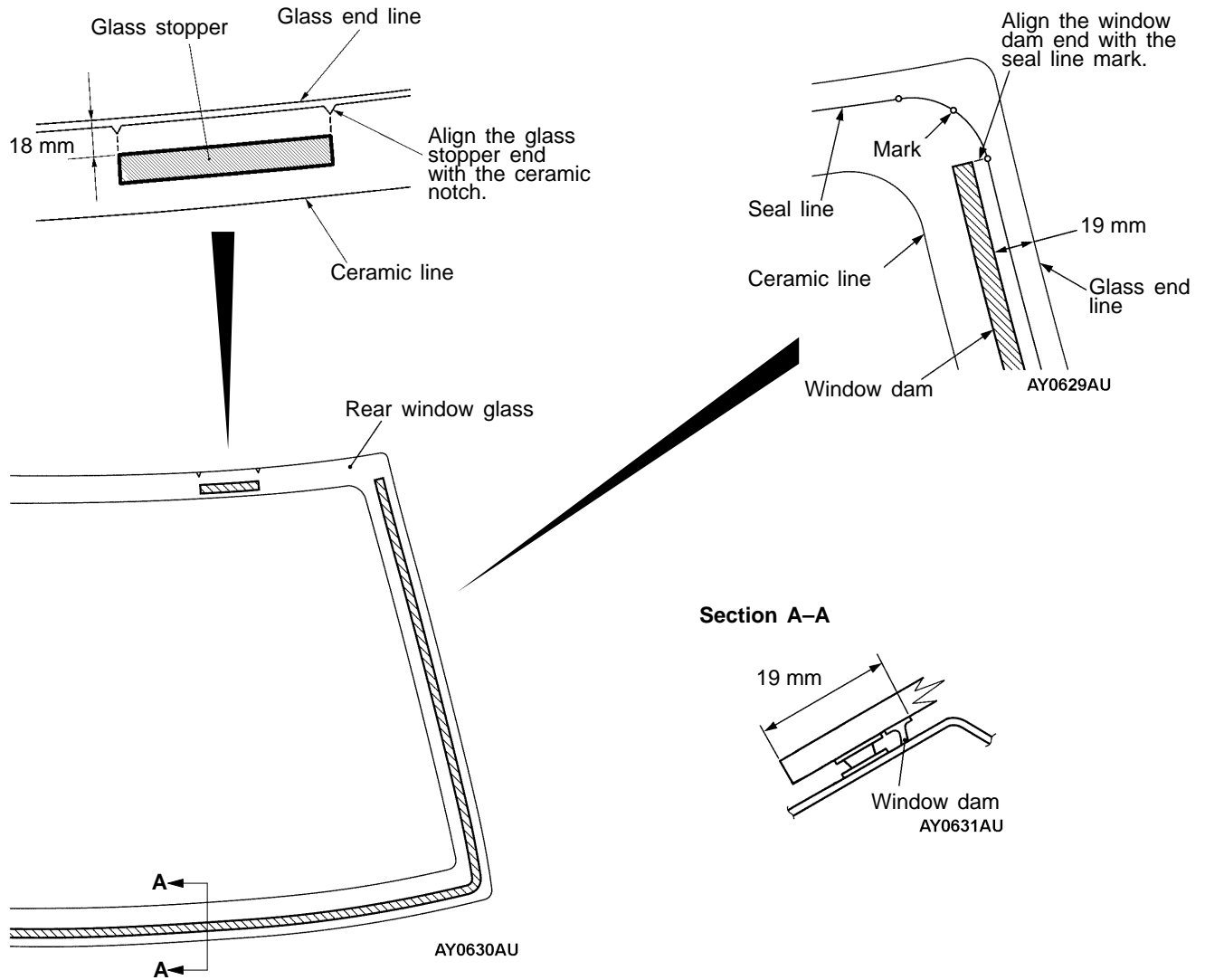
Caution

(1) The primer strengthens the adhesive effect, so that be sure to apply it. However, a too thick application will weaken the adhesive effect.

(2) Never touch the primer-applied surface.

5. Position the glass stopper and the window dam in the specified position, ensuring that there are no bends or warpings inside the rear window glass.

Glass stopper and window dam installation position



6. Install the rear window upper molding.
7. Install the glass by the same procedure as for the [windshield](#).

►B◄ Rear Window Lower Molding Installation

Install the clip into the rear window lower molding, and then install the rear window lower molding in the body.

DOORS

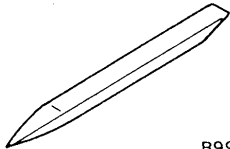
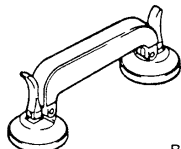
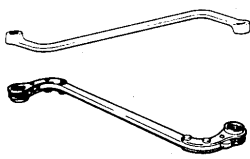
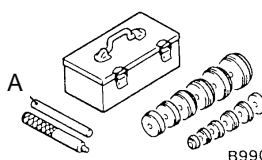
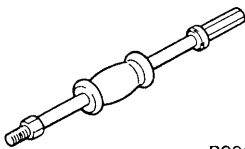
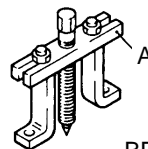
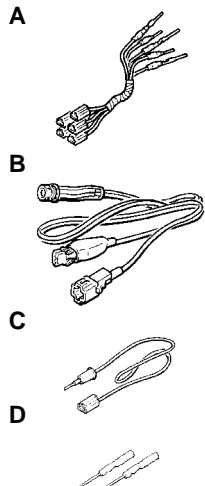
SERVICE SPECIFICATIONS

Items		Standard value
Door outside handle play mm	Front	2.3 ± 2.1
	Rear	1.3 ± 1.7
Power window operating current (power supply 14.5 ± 0.5 V, 25°C) A		5 ± 1
Door inside handle play mm	Front	9.6 ± 9.2
	Rear	9.0 ± 9.2

ADHESIVE

Items	Specified sealant	Remark
Waterproof film	3M ATD Part No. 8625 or equivalent	Ribbon sealer

SPECIAL TOOLS

Tool	Number	Name	Use
 B990784	MB990784	Ornament remover	Door trim removal
 B990480	MB990480	Window glass holder	Removal of power window regulator and motor assembly
 00003936	MB990900 or MB991164	Door hinge adjusting wrench	Adjustment of door fit
 B990925	MB990241 A: MB990939	Bearing & oil seal installer set A: Brass bar	Adjustment of door striker
 B990211	MB990211	Slide hammer	
 BB990241	MB990241 A: MB990243	Axle shaft puller A: Body puller	
 C991223	MB991223 A: MB991219 B: MB991220 C: MB991221 D: MB991222	Harness set A: Test harness B: LED harness C: LED harness adapter D: Probe	Terminal voltage measurement A: Connector pin contact pressure check B: Power circuit check C: Power circuit check D: Commercial tester connection

TROUBLESHOOTING

DIAGNOSIS FUNCTION

The power window <Vehicles with power window safety mechanism> and central door locking is controlled by the Smart Wiring System (SWS). For troubleshooting, refer to [Troubleshooting](#).

INSPECTION CHART FOR TROUBLE SYMPTOMS

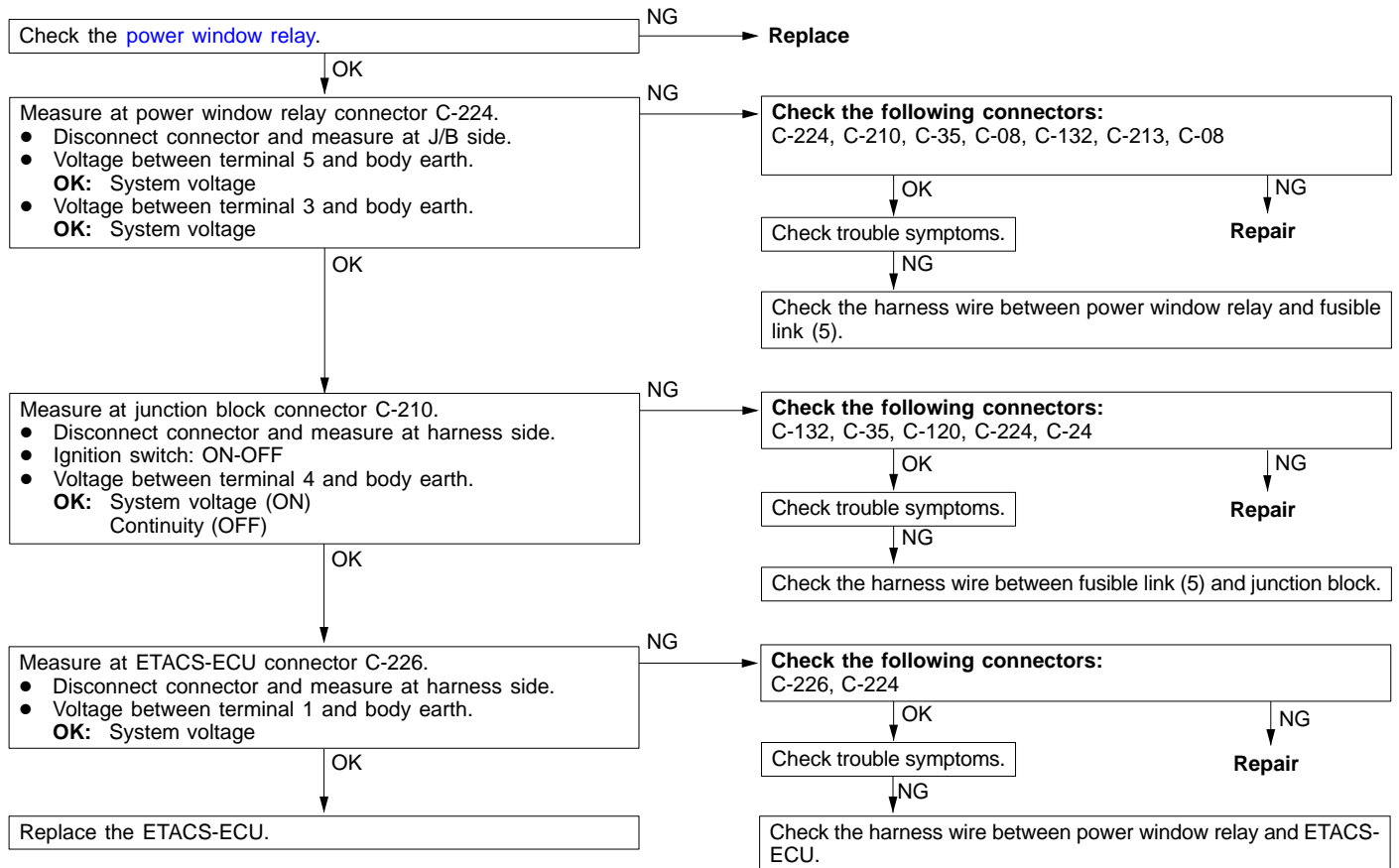
<Vehicles without power window safety mechanism>

Symptom	Inspection procedure
None of power window switches can operate any of windows.	1
Power window main switch can not operate any of windows. (However, each power window sub-switch can operate window.)	2
Power window main switch can not operate driver's window. (However, power window main switch can operate window except driver's window.)	3
Power window main switch can not operate passenger's window. (However, passenger's power window sub-switch can operate passenger's window.)	4
Power window main switch can not operate rear door windows. (However, rear power window sub-switches can operate rear door windows.)	5
Passenger's power window sub-switch can not operate passenger's window. (However, power window main switch can operate passenger's window.)	6
Rear power window sub-switches can not operate rear door windows. (However, power window main switch can operate rear door windows.)	7
Power window timer function does not work normally.	Refer to Troubleshooting .

INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

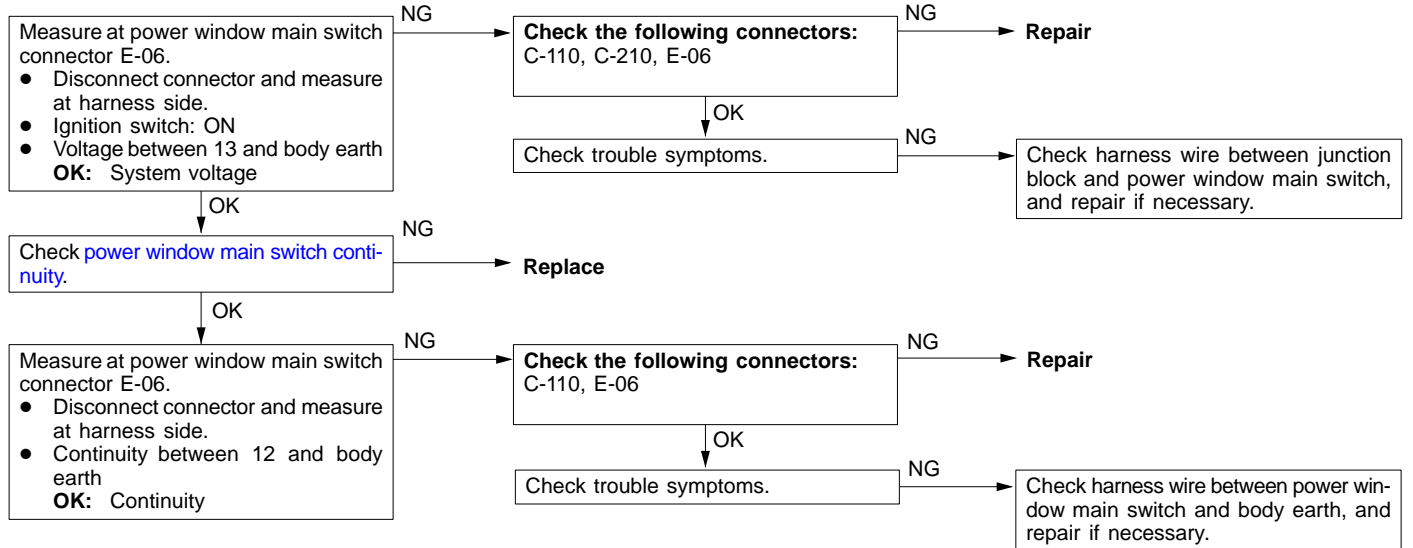
Inspection Procedure 1

None of power window switches can operate any of windows.	Probable cause
Power window relay, power window relay drive circuit or ETACS-ECU may be defective.	<ul style="list-style-type: none"> • Malfunction of power window relay • Malfunction of ETACS-ECU • Malfunction of junction block • Malfunction of wiring harness or connector



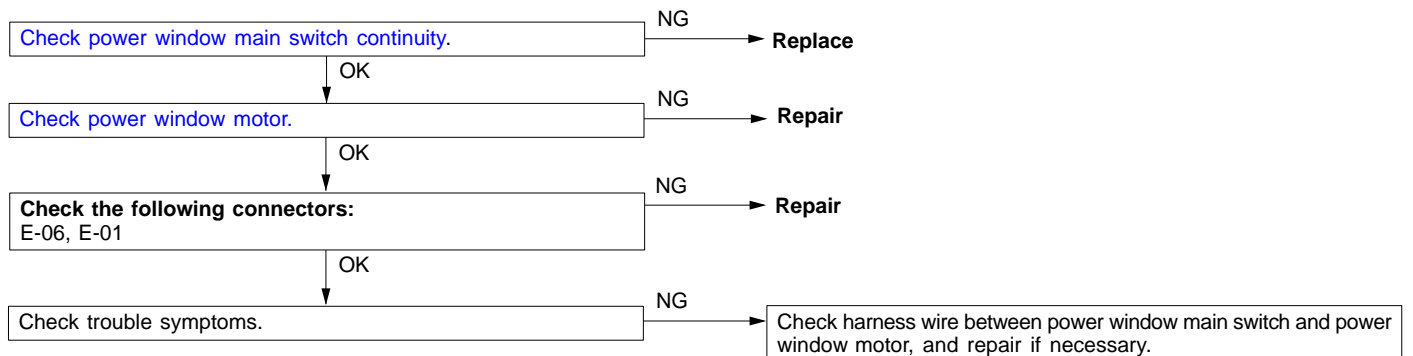
Inspection Procedure 2

Power window main switch can not operate any of windows. (However, each power window sub-switch can operate window.)	Probable cause
Power window main switch or its power supply circuit or earth circuit may be defective.	<ul style="list-style-type: none"> Malfunction of power window main switch Malfunction of wiring harness or connector



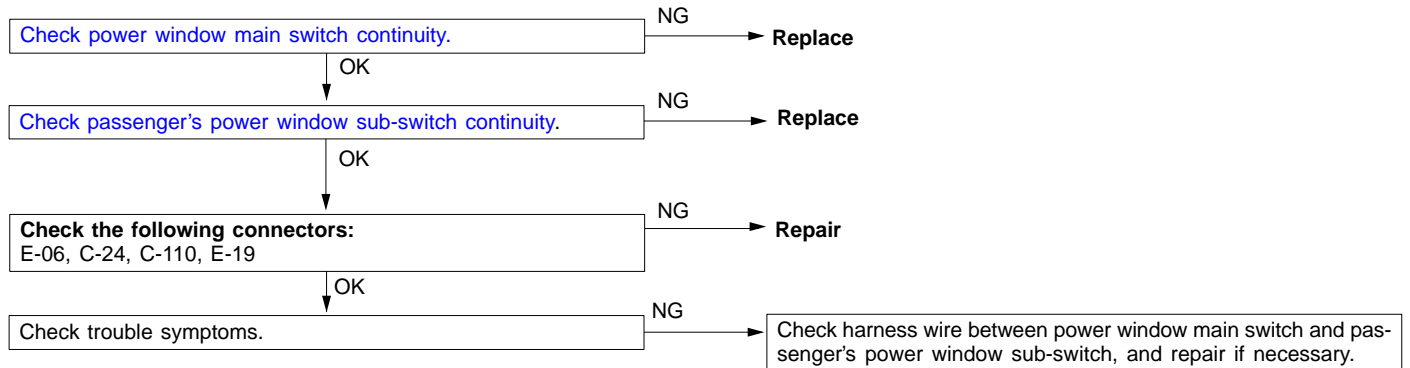
Inspection Procedure 3

Power window main switch can not operate driver's window. (However, power window main switch can operate window except driver's window.)	Probable cause
Power window main switch, power window motor, or harness or connector between power window main switch and power window motor may be defective.	<ul style="list-style-type: none"> Malfunction of power window main switch Malfunction of power window motor Malfunction of wiring harness or connector



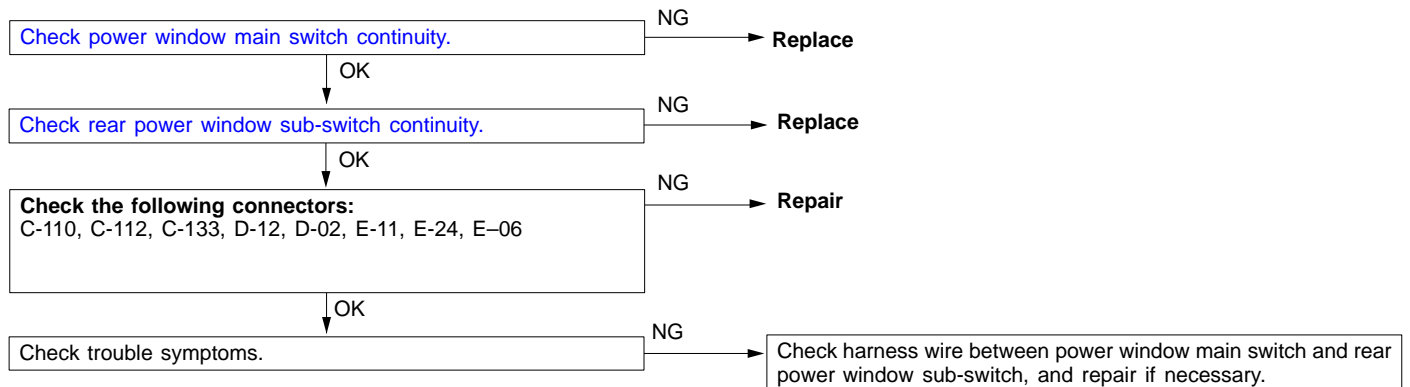
Inspection Procedure 4

Power window main switch can not operate passenger's window. (However, passenger's power window sub-switch can operate passenger's window.)	Probable cause
There may be short circuit or open circuit in communication line from the power window main switch to passenger's power window sub-switch, or passenger's power window sub-switch or power window main switch may be defective.	<ul style="list-style-type: none"> • Malfunction of power window main switch • Malfunction of passenger's power window sub-switch • Malfunction of wiring harness or connector



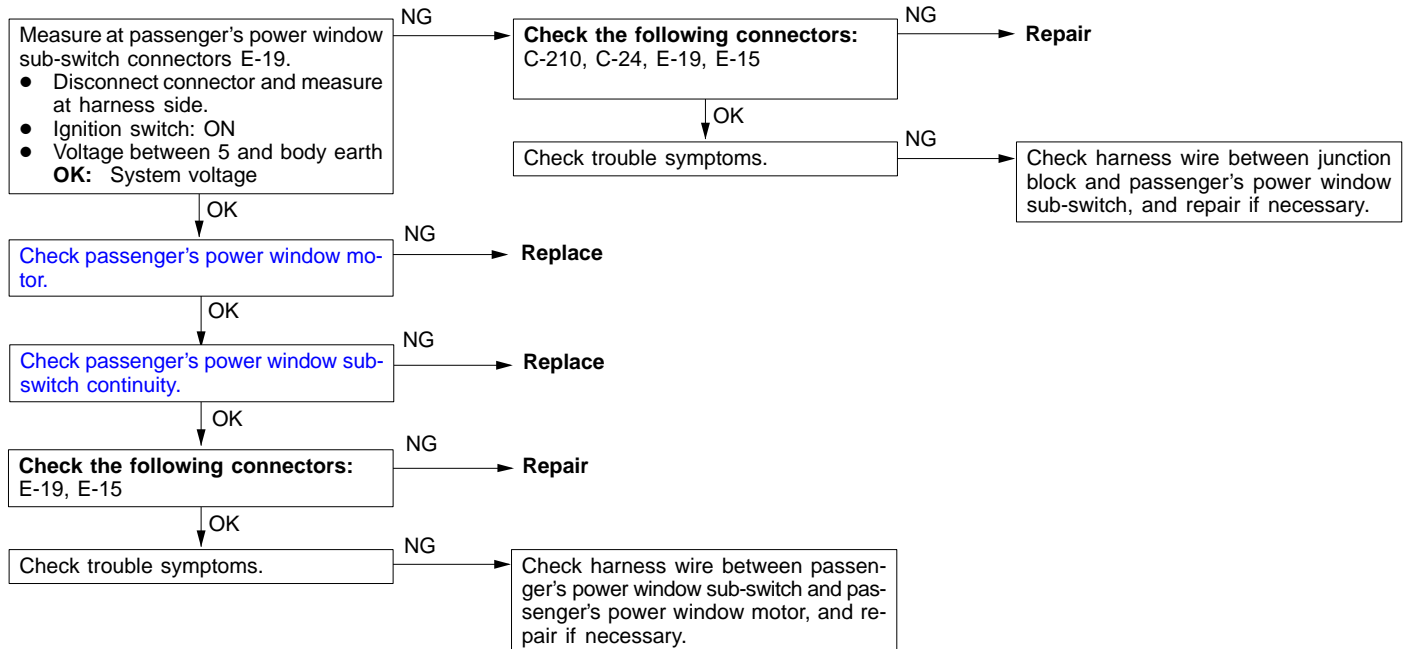
Inspection Procedure 5

Power window main switch can not operate rear door windows. (However, rear power window sub-switches can operate rear door windows.)	Probable cause
There may be short circuit or open circuit in communication line from the power window main switch to rear power window sub-switch, or rear power window sub-switch or power window main switch may be defective.	<ul style="list-style-type: none"> • Malfunction of power window main switch • Malfunction of rear power window sub-switch • Malfunction of wiring harness or connector



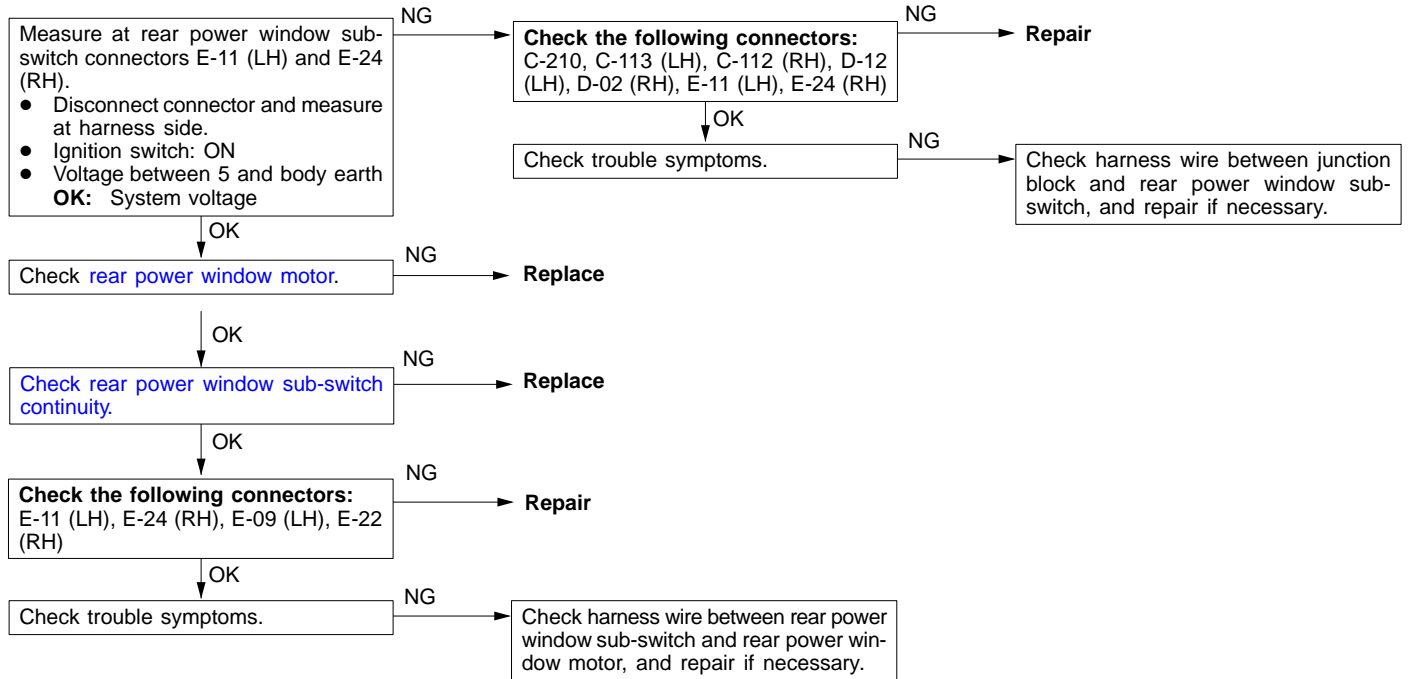
Inspection Procedure 6

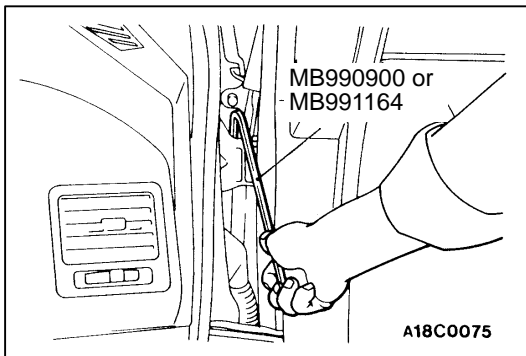
Passenger's power window sub-switch can not operate passenger's window. (However, power window main switch can operate passenger's window.)	Probable cause
Power supply circuit or earth circuit of the passenger's power window sub-switch, passenger's power window sub-switch or passenger's power window motor may be defective.	<ul style="list-style-type: none"> • Malfunction of passenger's power window sub-switch • Malfunction of passenger's power window motor • Malfunction of wiring harness or connector



Inspection Procedure 7

Rear power window sub-switches can not operate rear door windows. (However, power window main switch can operate rear door windows.)	Probable cause
Power supply circuit or earth circuit of the rear power window sub-switches, rear power window sub-switches or rear power window motors may be defective.	<ul style="list-style-type: none"> • Malfunction of rear power window sub-switches • Malfunction of rear power window motors • Malfunction of wiring harness or connector





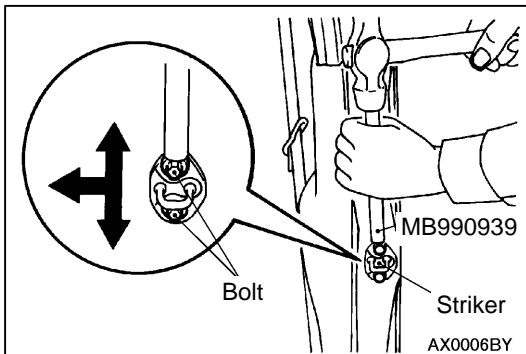
ON-VEHICLE SERVICE

DOOR ADJUSTMENT

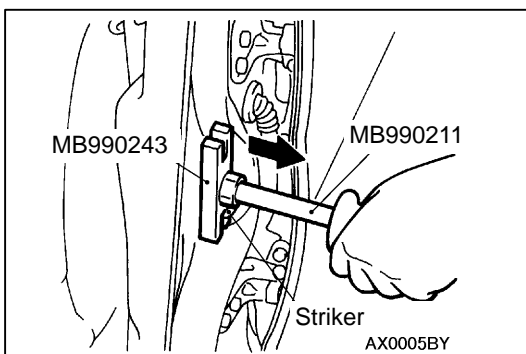
1. If the gap between the door and body is inconsistent, paste protection tape at the fender around the hinge attached portion and at the door edge, use the special tool to loosen the bolt fixing the door hinge at the body side, and move the door to adjust so that the gap around the door becomes consistent.
2. If steps exist between the door and body, use the special tool to loosen the bolt fixing the door hinge at the door side, and move the door and adjust the alignment of the door surface.

Caution

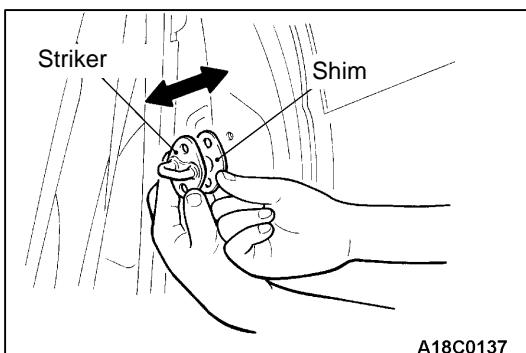
Do not apply torque above 98 N•m for the special tool (MB991164).



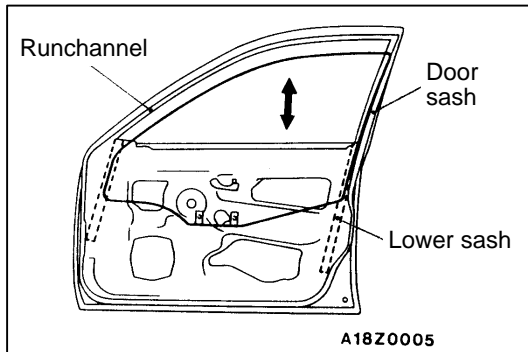
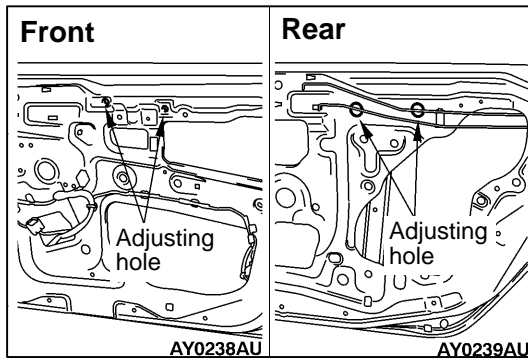
3. If the door does not open and close smoothly
 - (1) Adjustment with the striker (inside the vehicle and up and down directions)
Change the striker fixing bolt to a temporary bolt, and using the special tool (MB990939) and hammer, gently hit the top of the temporary bolt in the direction to be adjusted.



- (2) Adjustment with the striker (outside the vehicle)
Using the special tool (MB990211, MB990243), pull the striker towards the outside of the vehicle and adjust.



- (3) Adjustment with the shim (to and fro direction)
Adjust the alignment of the door striker and door latch using the shim of the striker attached portion.



DOOR WINDOW GLASS ADJUSTMENT

Check that the door glass operates smoothly and moves along the door glass runchannel when the door window glass is fully raised and fully lowered. If there is a problem, adjust by the following procedure.

1. Remove the [door trim and waterproof film](#).
2. With the door window glass fully closed, loosen the screw fixing the door glass from the adjustment hole, and lower the door window glass slightly.
3. Fully close the door window glass again, and tighten the screw fixing the door glass from the adjustment hole.

ADJUSTMENTS AND REPLACEMENT DURING POWER WINDOW MALFUNCTION

If the window glass does not rise but automatically descends, adjust and replace the window glass as follows:

1. Remove the [door trim and waterproof film](#).
2. Remove the window regulator assembly from the door window glass, and raise and lower the window glass with your hand and check the operating force.

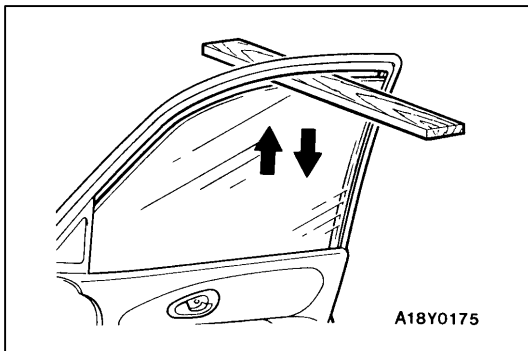
Remarks Insert a cushion, etc. to prevent damage of the glass if it accidentally drops.

3. If the door window glass does not rise and descend smoothly, perform the following check and repair.
 - Check the installation condition of the runchannel.
 - Straighten twist in the door sash.
 - Check the installation condition of the lower sash or the center sash.

NOTE

The lower sash cannot normally be adjusted, but it may be possible to adjust the sash span slightly within the range allowed by manufacturing tolerances by pushing the lower sash outwards while re-installing it.

4. If repair or adjustment is not possible, replace the door assembly.

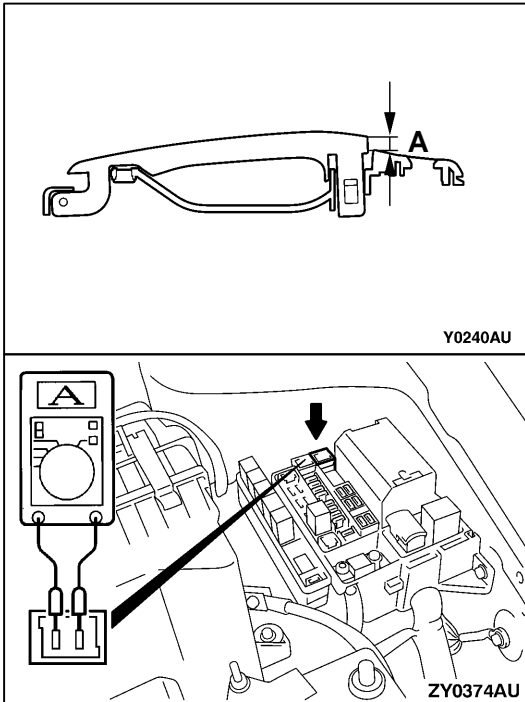


POWER WINDOW SAFETY MECHANISM CHECK <Vehicles with power window safety mechanism>

1. Set a wood piece of about 10 mm thick as shown in the figure, and raise the window glass.
2. Check that the window glass descends by about 150 mm when it catches the wood piece. If it does not, refer [troubleshooting](#).

POWER WINDOW TIMER FUNCTION CHECK

Close the door and turn the ignition switch in the OFF position, and then check the power window operates for 30 seconds. If it does not, refer [troubleshooting](#).

**DOOR OUTSIDE HANDLE LOOSENESS CHECK**

1. Check that the looseness of the door outside handle satisfies the standard value.

Standard value (A):

Front 2.3 ± 2.1 mm

Rear 1.3 ± 1.7 mm

2. Check the door outside handle and door latch assembly. If faulty, replace.

POWER WINDOW OPERATING CURRENT CHECK

1. Remove the power window fuse, and connect the circuit tester as shown in the figure.
2. When the power window switch is set to the UP side, a large amount of operating current flows when the window is operated or closed. Therefore measure somewhere in between excluding these positions.

Standard value: 5 ± 1 A (Power supply voltage 14.5 ± 0.5 V, 25°C)

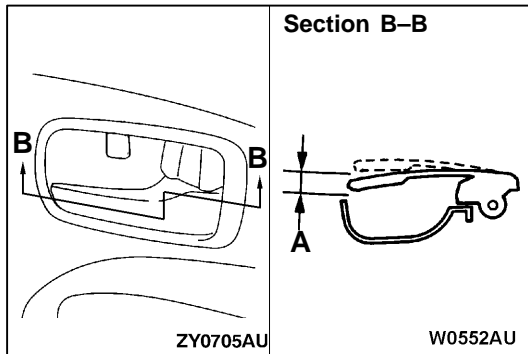
3. If outside the standard value, refer to [Troubleshooting](#).

CIRCUIT BREAKER CHECK (Incorporated in the power window motor)

1. Set the power window switch to the UP side until the window glass closes completely, and continue operating the switch for more than 10 seconds.
2. Release the power window switch at the UP side, and at the same time, press the DOWN side. Under this condition if the window glass starts to lower within 60 seconds, the circuit breaker can be determined as good.

POWER WINDOW CHECK

Check that the power window operates. If it does not, refer to [Troubleshooting](#).

**DOOR INSIDE HANDLE LOOSENESS CHECK AND ADJUSTMENT**

1. Check that the door inside handle looseness satisfies the standard value.

Standard value (A):**Front 9.6 ± 9.2 mm****Rear 9.0 ± 9.2 mm**

2. If outside the standard value, remove the [door trim](#).
3. Adjust the looseness of the inside handle using the clip joining the inside handle and rod.

KEY UNREMOVED REMINDER FUNCTION CHECK <Vehicles with keyless entry function>

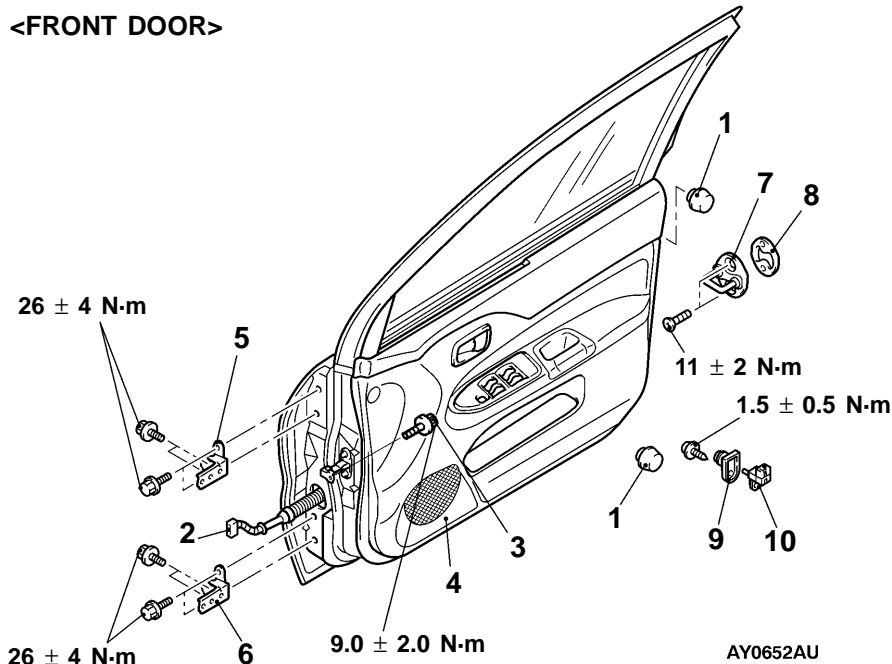
1. Turn the ignition switch to the OFF position.
2. Leave the ignition key in the ignition switch key cylinder.
3. Open the driver's seat side door, and check that even when attempts are made to lock the driver's seat side door lock knob, it remains unlocked.
4. If faulty, refer [troubleshooting](#).

DOOR ASSEMBLY

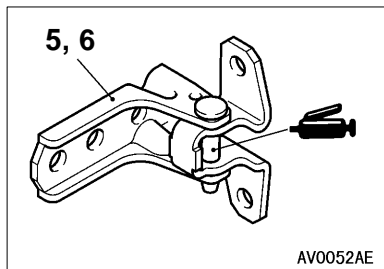
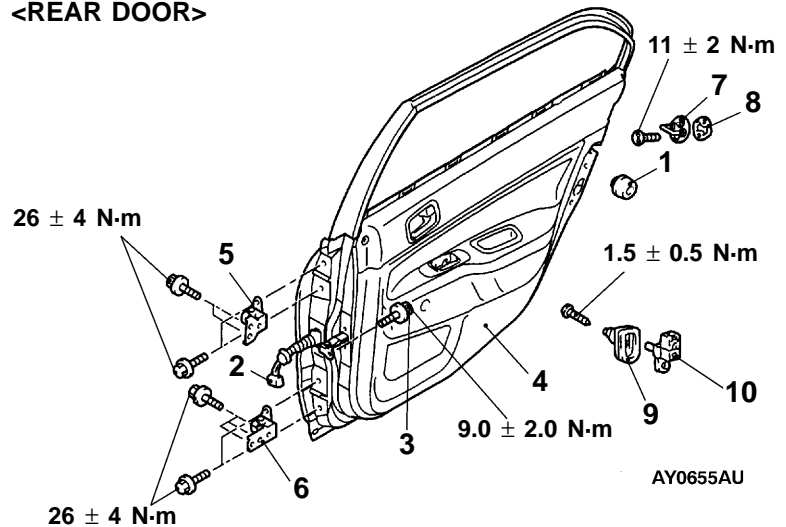
REMOVAL AND INSTALLATION

Post-installation Operation
[Door Adjustment.](#)

<FRONT DOOR>



<REAR DOOR>



1. Damper mail

Door assembly removal steps

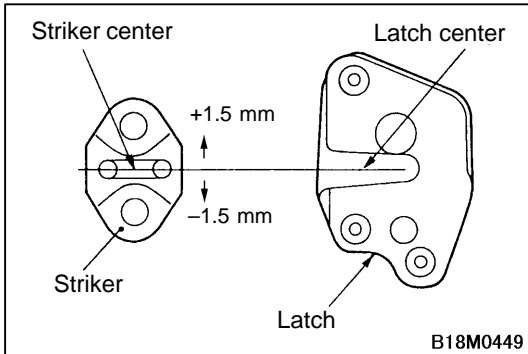
2. Harness connector
3. Door check connecting bolt
4. Door assembly
5. Door upper hinge
6. Door lower hinge

Striker removal steps

7. Striker
8. Striker shim

Door switch removal

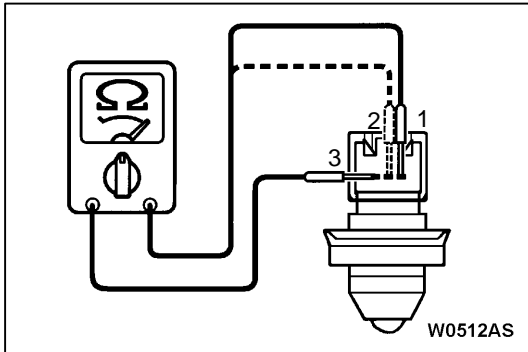
9. Door switch cap
10. Door switch



INSTALLATION SERVICE POINTS

►A◄ Striker installation

Align the center of the striker and latch within ± 1.5 mm, and install.



INSPECTION

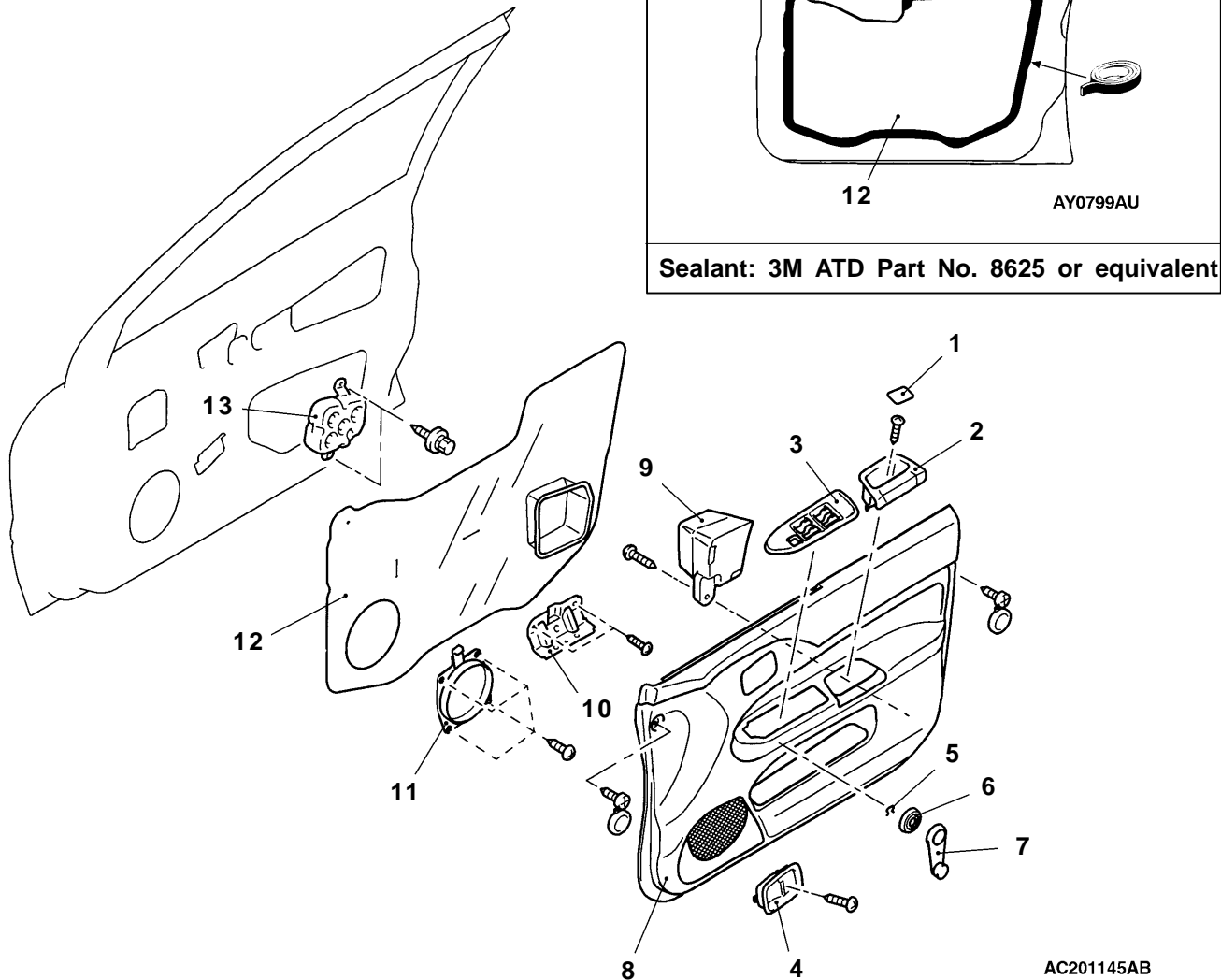
DOOR SWITCH CONTINUITY CHECK

Switch position	Terminal No.		
	1	2	3
Released (ON)			
Depressed (OFF)			

DOOR TRIM AND WATERPROOF FILM

REMOVAL AND INSTALLATION

<FRONT DOOR>



Removal steps

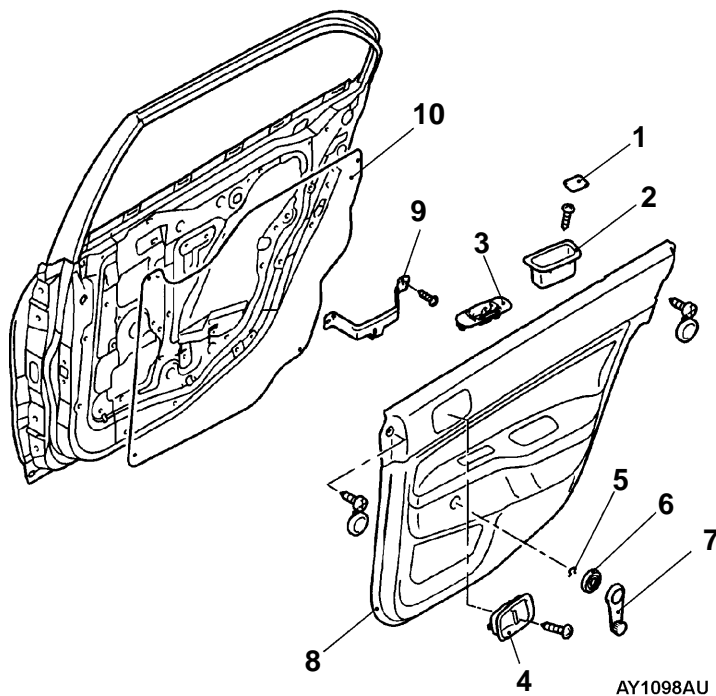
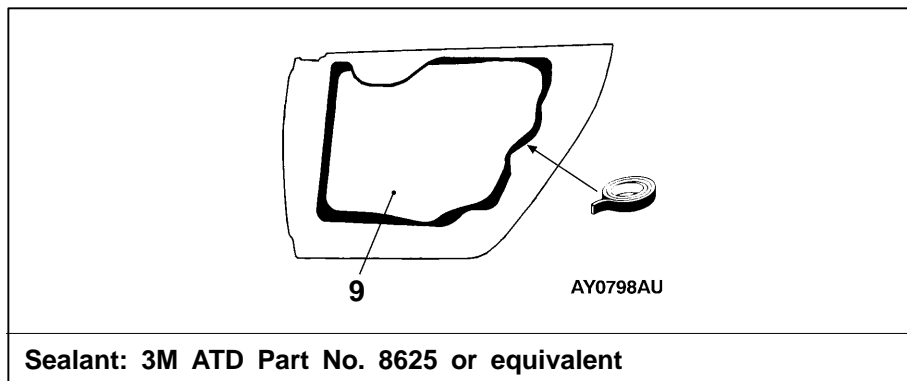
1. Cap
2. Door pull handle
3. Power window switch panel assembly
4. Door inside handle cover
- ▶B◀ 5. Clip <Vehicles without power windows>
- ▶B◀ 6. Escutcheon <Vehicles without power windows>
- ▶B◀ 7. Regulator handle <Vehicles without power windows>

8. Door trim assembly
9. Energy absorber core
10. Power window switch bracket
11. Speaker
- ▶A◀ 12. Waterproof film
13. Energy absorber core lower

NOTE

The removal and installation service points are the same as before.

<REAR DOOR>



Removal steps

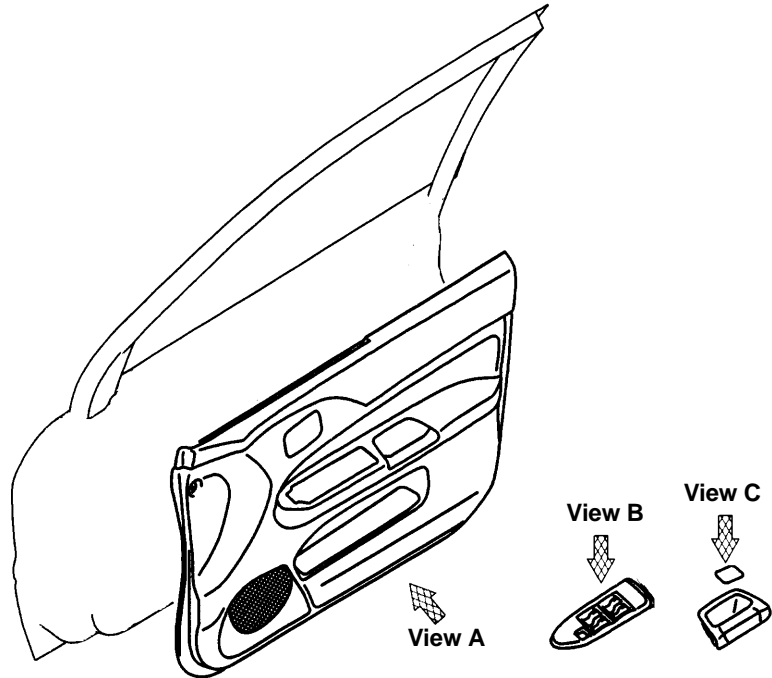
1. Cap
2. Door pull handle
3. Power window switch panel assembly
4. Door inside handle cover
5. Clip <Vehicles without power windows>

6. Escutcheon <Vehicles without power windows>
7. Regulator handle <Vehicles without power windows>
8. Door trim assembly
9. Power window switch bracket
10. Waterproof film



CLIP AND CLAW POSITIONS

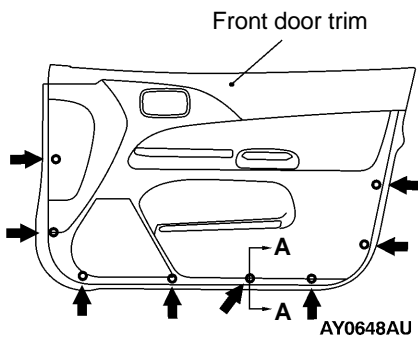
<FRONT DOOR>



Y0657AU

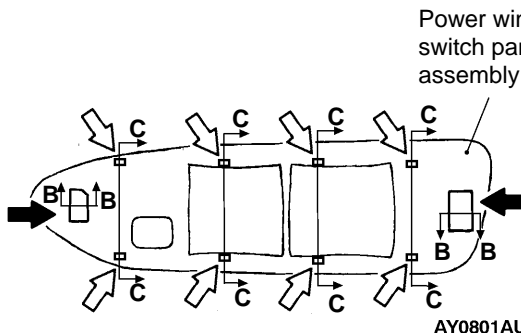
Note
 ← Clips positions
 ⇨ Claws positions

View A



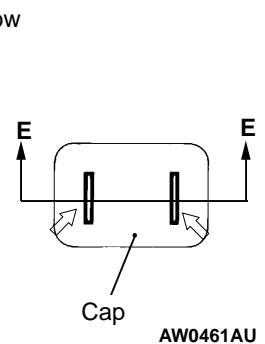
AY0648AU

View B



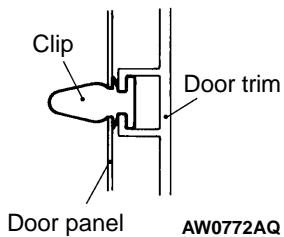
AY0801AU

View C



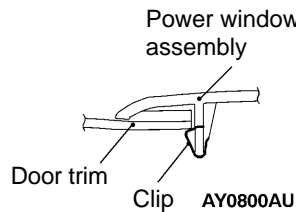
AW0461AU

Section A-A



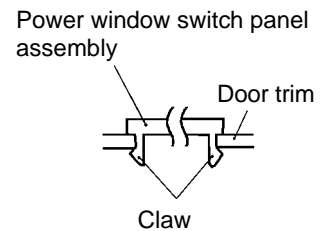
AW0772AQ

Section B-B



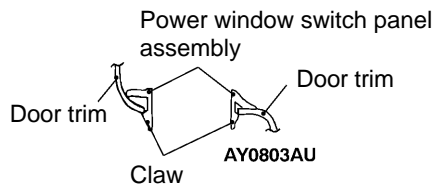
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Section C-C



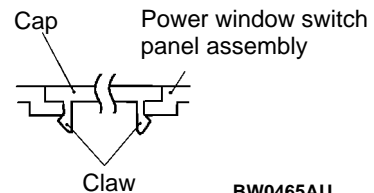
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Section D-D



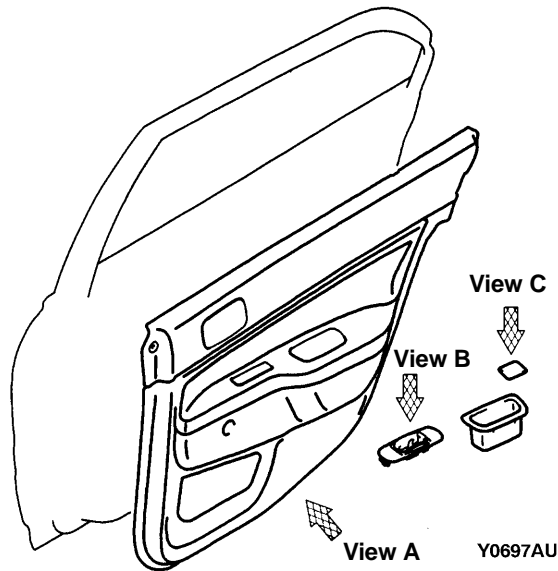
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Section E-E



BW0465AU

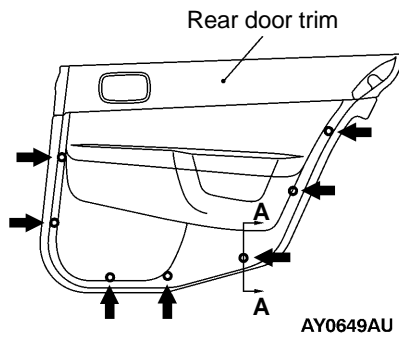
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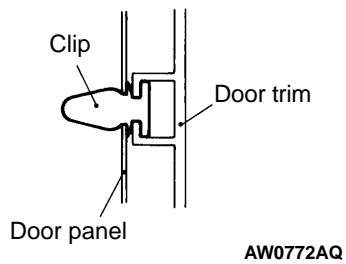
Note

- ➡ Clips positions
- ↔ Claws positions

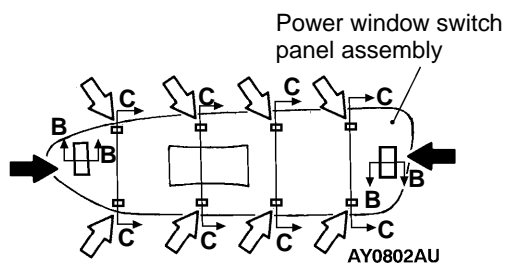
View A



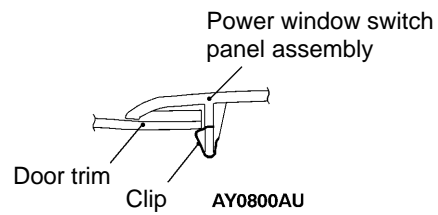
Section A-A



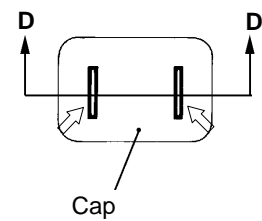
View B



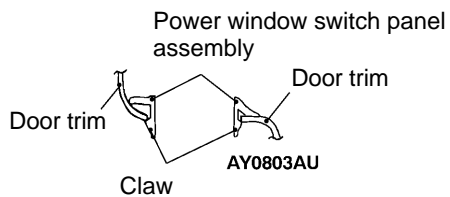
Section B-B



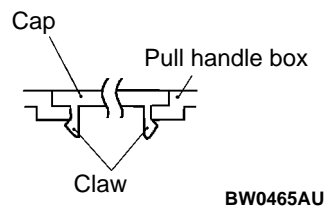
View C

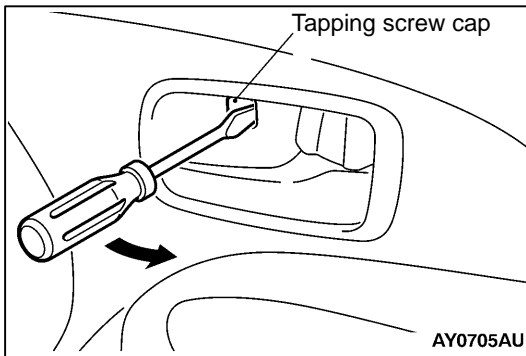


Section C-C



Section D-D

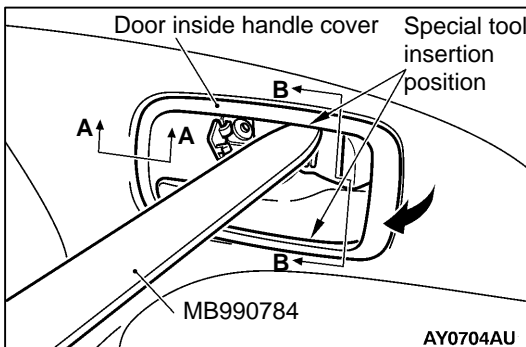




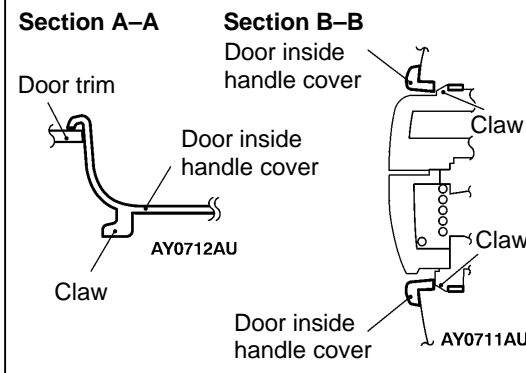
REMOVAL SERVICE POINTS

◀A▶ DOOR INSIDE HANDLE COVER REMOVAL

1. Insert the driver into the tapping screw cap end of the door inside handle cover and pry the cap the way shown in the illustration to remove the cap, and then unscrew the tapping screw.

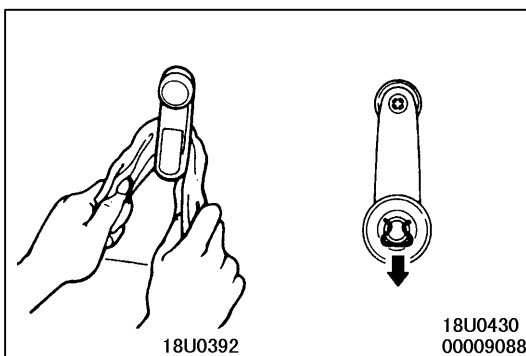


2. As shown in the illustration, insert the special tool between the door inside handle cover and door inside handle, and then disengage the claws of the door inside handle cover and door inside handle.
3. Insert the special tool into the door inside handle cover end, and then pry and remove the door inside handle cover.

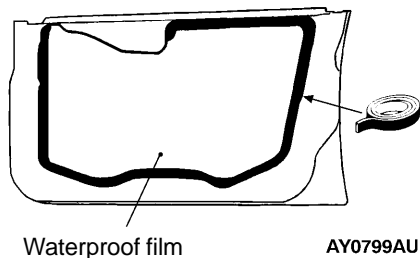


◀B▶ CLIP REMOVAL

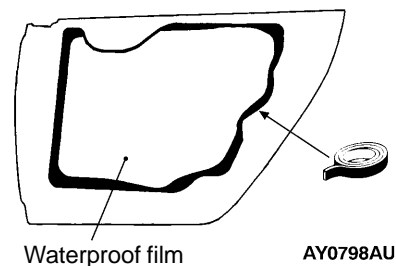
Use a cloth to remove the clip as shown in the illustration.



<FRONT DOOR>



<REAR DOOR>



INSTALLATION SERVICE POINTS

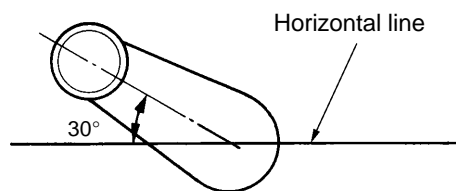
►A◄ WATERPROOF FILM INSTALLATION

Apply the specified adhesive on the waterproof film as shown in the illustration, and then glue it on the door window glass.

Specified sealant: 3M ATD Part No. 8625 or equivalent

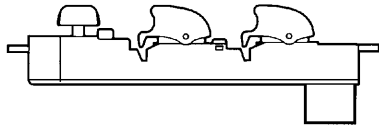
►B◄ REGULATOR HANDLE/ESCUTCHEON/CLIP INSTALLATION


1. Install the clip and escutcheon to the regulator handle.
2. Close the front door window glass fully, and then install the regulator handle as shown in the illustration.



← Front of vehicle

B18S0120
























































































1	2	3		4	5	6	
7	8	9	10	11	12	13	14

Y1383AU

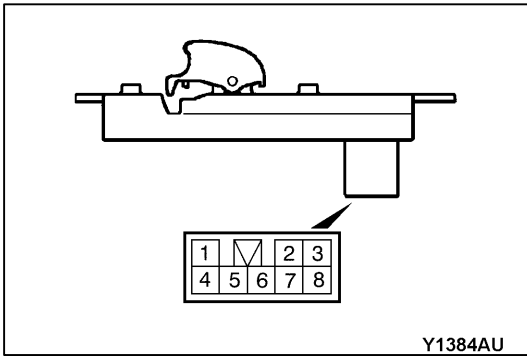
INSPECTION

POWER WINDOW MAIN SWITCH CONTINUITY CHECK <Vehicles without power window safety mechanism>

Switch position		Terminal No.																		
		Front door								Rear door								ILL		
		Driver side				Passenger side				LH				RH						
		8	9	12	13	3	11	12	13	1	2	12	13	6	12	13	14	12		13
Un-lock	UP																			
	OFF																			
	DOW N																			
Lock	UP																			
	OFF																			
	DOW N																			
Illumination																				

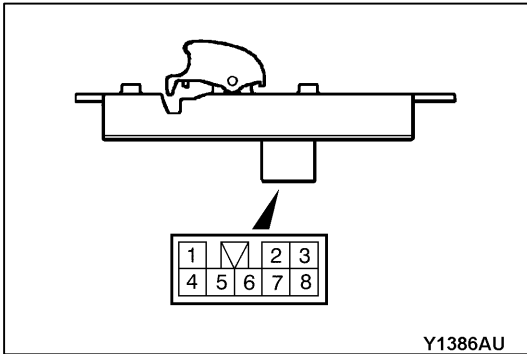
NOTE <Vehicles with power window safety mechanism>

Power window main switch uses SWS system, for the power window main switch check, refer to [SWS](#).



POWER WINDOW SUB SWITCH CONTINUITY CHECK
<Vehicles without power window safety mechanism>

Switch position	Terminal No.				
	4	5	6	7	8
UP					
OFF					
DOWN					



<Vehicles with power window safety mechanism>

Switch position	Terminal No.		
	2	3	6
UP			
DOWN			

DOOR GLASS AND REGULATOR

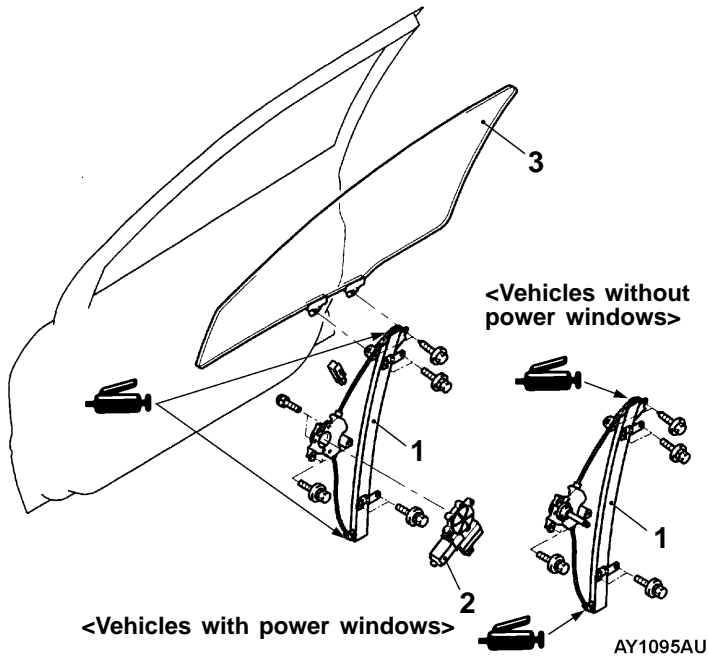
REMOVAL AND INSTALLATION

Pre-removal Operation
Door Trim and Waterproof Film Removal

Post-installation Operation

- Door Window Glass Adjustment
- Door Trim and Waterproof Film Installation

<FRONT DOOR>



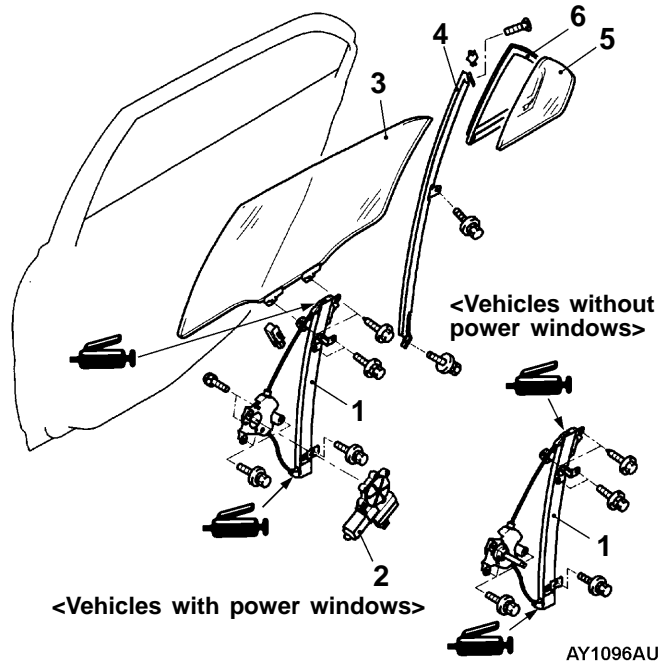
Window regulator assembly removal steps

- Operation Check <Vehicles with power safety mechanism>
- 1. Window Regulator Assembly
- 2. Power Window Motor Assembly

Window glass removal steps

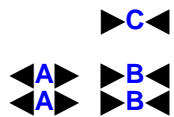
- Window glass runchannel
- 3. Door window glass

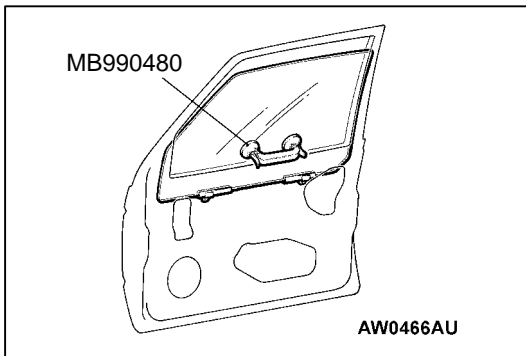
<REAR DOOR>



Stationary window glass removal steps

- Window glass runchannel
- Door window glass lower runchannel
- 3. Door window glass
- 4. Center sash upper
- 5. Stationary window glass
- 6. Stationary window weatherstrip





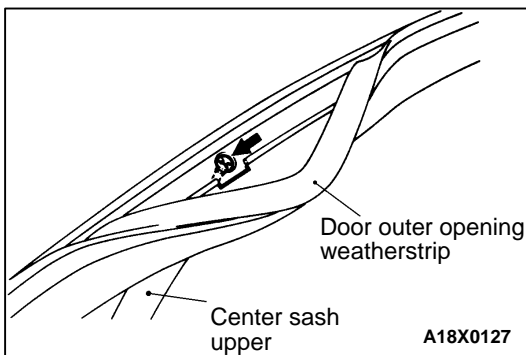
REMOVAL SERVICE POINTS

◀A▶ WINDOW REGULATOR ASSEMBLY/POWER WINDOW MOTOR ASSEMBLY REMOVAL

1. Loosen the door window glass assembly mounting bolts.
2. Raise the door window glass assembly, and then adhere the special tool on the glass as shown in the illustration to prevent from falling.

Caution For the door window glass adhered film and etc., use the special tool from outside the door glass to prevent unsticking.

3. Remove the power window regulator and motor assembly.



◀B▶ CENTER SASH UPPER REMOVAL

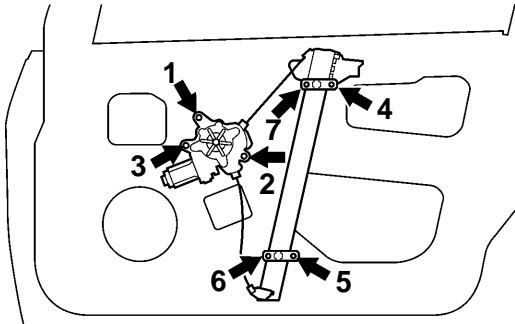
1. Remove only the section of the door outer opening weatherstrip
2. Remove the center sash upper mounting screws, and then remove the center sash upper from the door panel.

INSTALLATION SERVICE POINTS

▶A◀ CENTER SASH UPPER INSTALLATION

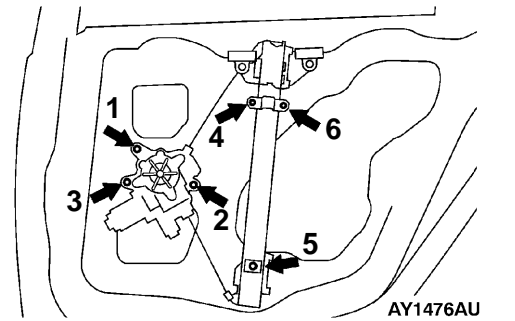
Securely insert the center sash upper into the window rear sash (door).

<FRONT DOOR>



AY1536AU

<REAR DOOR>



AY1476AU

►B◀ WINDOW REGULATOR ASSEMBLY/POWER WINDOW MOTOR ASSEMBLY INSTALLATION

When installing the window regulator assembly, tighten the bolts at the specified torque in the order shown in the illustration.

►C◀ OPERATION CHECK <Vehicles with power window safety mechanism>

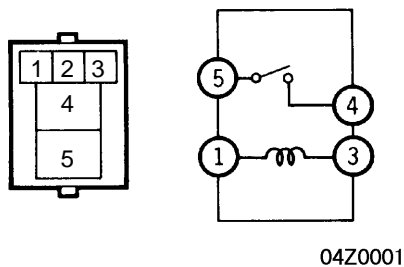
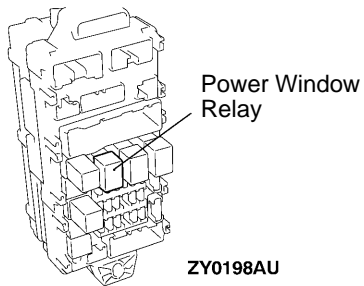
1. Install the glass to the window regulator assembly.

Caution

- (1) As fully open position which is programmed in the power window-ECU is released (initialized), the window regulator assembly should not be operated until it is installed to the glass.
 - (2) The clamping prevention function does not operate the first time that the glass is fully closed.
2. Press the power window switch to fully-open the glass, and then return the glass toward the fully-close position about 30 mm each. In the fully-close position, keep on pressing the power window switch for 0.5 second or more.

NOTE

This operation will program the power window-ECU.



INSPECTION

POWER WINDOW RELAY CONTINUITY CHECK

Battery voltage	Terminal No.			
	1	3	4	5
Not applied	○	○		
Applied	⊕	⊖	○	○

POWER WINDOW MOTOR ASSEMBLY CHECK

<Vehicles without power window safety mechanism>

1. Connect the battery directly to the motor terminal, and check that the motor turns smoothly.
2. Also check that it turns in the opposite direction when the battery polarities are switched and connected.
3. If faulty, replace the power window motor assembly.

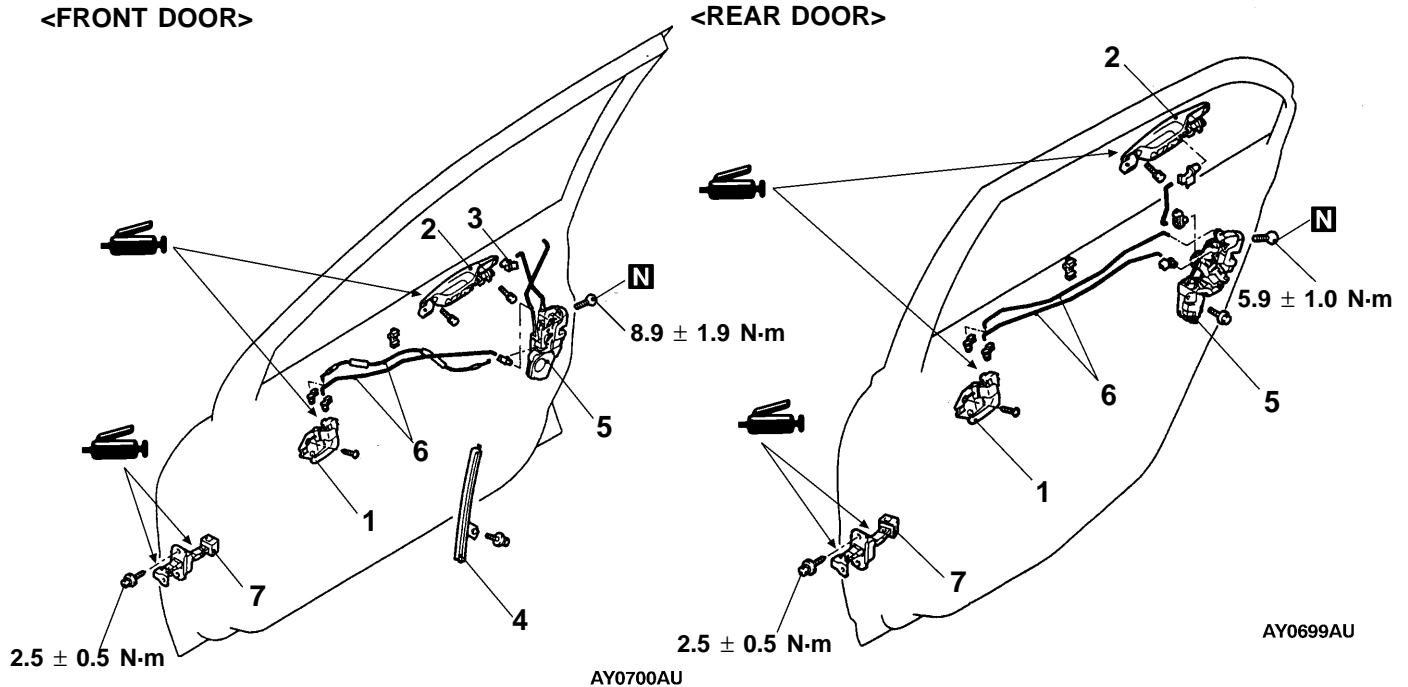
DOOR HANDLE AND LATCH

REMOVAL AND INSTALLATION

Pre-removal Operation
Door Trim Removal

Post-installation Operation

- Door Inside Handle Play Check
- Door Outside Handle Play Check
- Door Trim Installation



Door handle and door latch removal steps

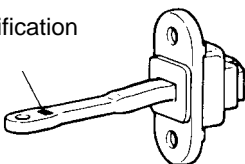
- C◄
1. Door inside handle
 - Waterproof film
 - Door window glass lower runchannel
 - Center sash
 2. Door outside handle

- B◄
3. Key cylinder
 4. Lower sash
 5. Door latch assembly
 6. Link

Door check removal steps

- A◄
- Waterproof film
 - 7. Door check

Identification mark



A18X0464

INSTALLATION SERVICE POINTS

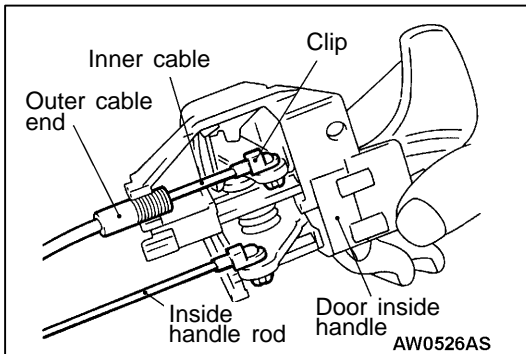
►A◄ DOOR CHECK INSTALLATION

Install with the following identification marks upward.

Items		Identification mark
Front door	Left side	21L
	Right side	21R
Rear door	Left side	36L
	Right side	36R

►B◄ LOWER SASH INSTALLATION

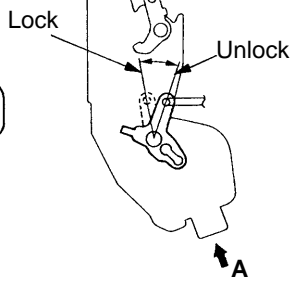
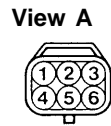
Be sure to install the lower sash to the window rear sash (at door) securely.



►C◄ DOOR INSIDE HANDLE INSTALLATION

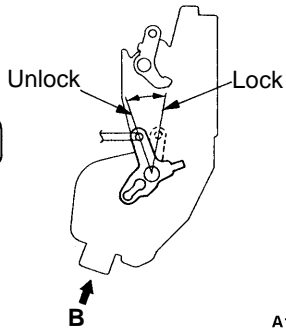
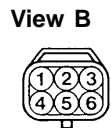
1. Install the inside lock cable to the door inside handle as follows:
 - (1) Install the inner cable end in the inside lock cable to the clip in the door inside handle.
 - (2) Turn the inside lock knob to the door lock position.
 - (3) Install the outer cable end to the door inside handle securely.
 - (4) Install the clip to the inner cable.
2. Install the inside handle rod to the door inside handle.
3. Install the door inside handle to the door.

<Front door>
<Driver's side>



A1810144

< Passenger's side>



A1810143

INSPECTION

DOOR LOCK ACTUATOR CHECK

Front door

<Vehicles without keyless entry system (Driver's side)>

Rod position	Terminal No.		
	1	2	3
LOCK	○		○
UNLOCK		○	○

<Vehicles with keyless entry system Driver's side>

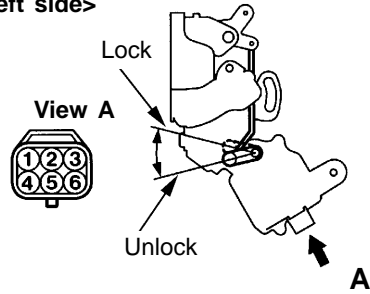
Rod position	Terminal No.					Rod operation
	1	2	3	4	6	
LOCK				⊕	⊖	LOCK to UNLOCK
UNLOCK				⊖	⊕	UNLOCK to LOCK
LOCK	○		○			
UNLOCK		○	○			

<Passenger's side>

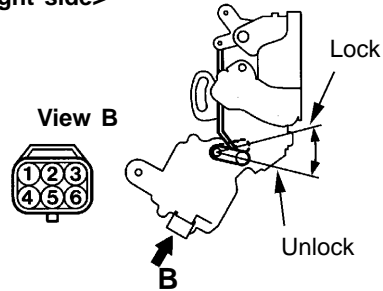
Rod position	Terminal No.		Rod operation
	4	6	
LOCK	⊖	⊕	LOCK to UNLOCK
UNLOCK	⊕	⊖	UNLOCK to LOCK

<Rear door>

<Left side>



<Right side>



AW0900AL

Rear door

<Left side>

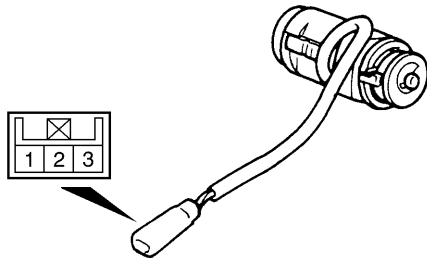
Rod position	Terminal No.		Rod operation
	2	3	
LOCK	⊖	⊕	LOCK to UNLOCK
UNLOCK	⊕	⊖	UNLOCK to LOCK

<Right side>

Rod position	Terminal No.		Rod operation
	2	3	
LOCK	⊕	⊖	LOCK to UNLOCK
UNLOCK	⊖	⊕	UNLOCK to LOCK

DOOR LOCK KEY CYLINDER SWITCH CONTINUITY
CHECK <Vehicles with central door locking system>

Switch position	Terminal No.		
	1	2	3
LOCK	○	○	
OFF			
UNLOCK		○	○

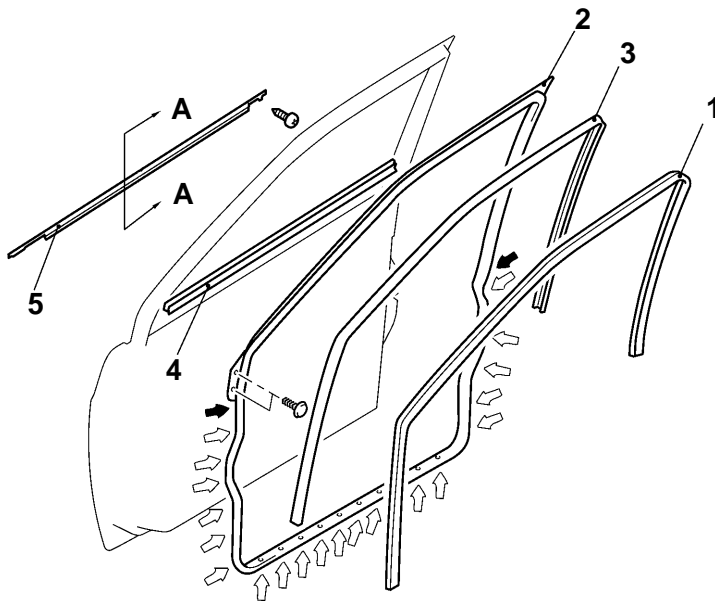


Y1760AU

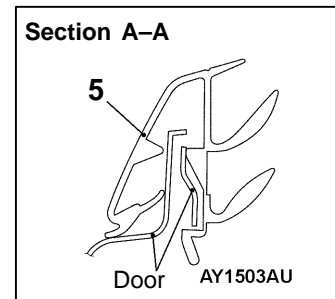
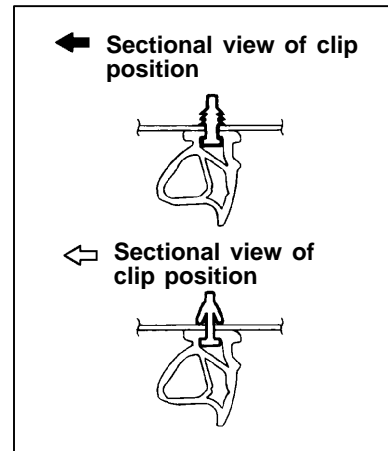
WINDOW GLASS RUNCHANNEL AND DOOR OPENING WEATHERSTRIP

REMOVAL AND INSTALLATION

<FRONT DOOR>



AY0650AU



Door inner opening weatherstrip removal steps

- Scuff plate
- Cowl side trim
- Center pillar lower trim

1. Door inner opening weatherstrip

Door outer opening weatherstrip removal

2. Door outer opening weatherstrip

Door window glass runchannel removal steps

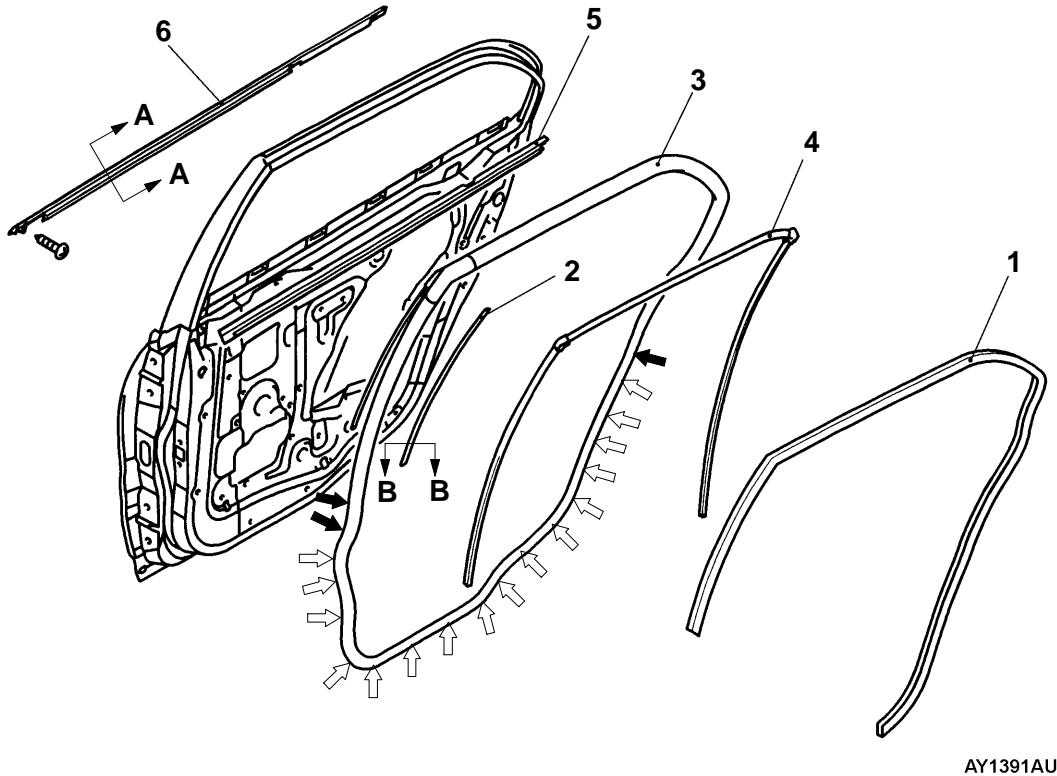
3. Door window glass runchannel
4. Door window glass lower runchannel

Door beltline molding removal steps

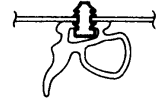
- Outside mirror
 - Door window glass
5. Door beltline molding



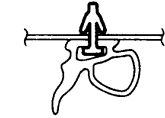
<REAR DOOR>



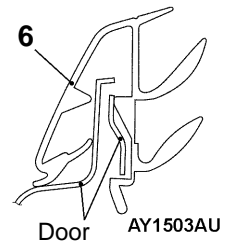
← Sectional view of clip position



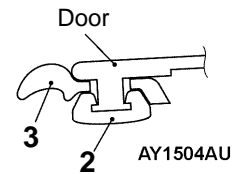
← Sectional view of clip position



Section A-A



Section B-B



Door inner opening weatherstrip removal steps

- Scuff plate
 - Center pillar lower trim
1. Door inner opening weatherstrip

Door outer opening weatherstrip removal

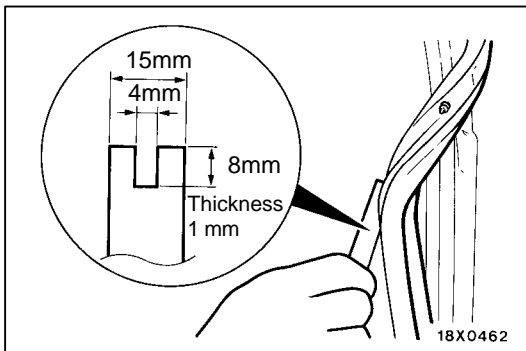
2. Retainer weatherstrip
3. Door outer opening weatherstrip

Door window glass runchannel removal steps

4. Door window glass runchannel
5. Door window glass lower runchannel

Door beltline molding removal steps

- Door window glass
 - Stationary glass
6. Door beltline molding



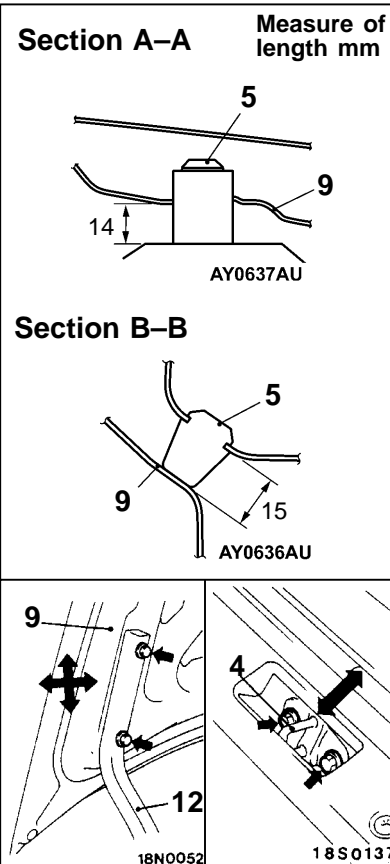
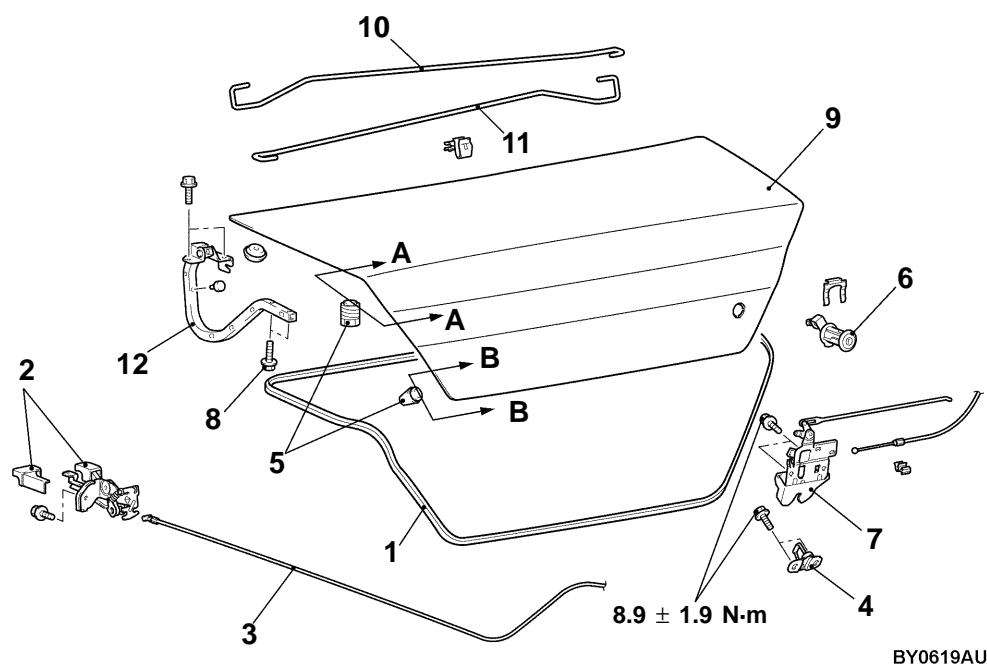
REMOVAL SERVICE POINT

◀A▶ DOOR OUTER OPENING WEATHERSTRIP REMOVAL

Make a tool as shown and remove the weatherstrip from the door panel.

TRUNK LID

REMOVAL AND INSTALLATION



Trunk lid weatherstrip removal steps

- [Trunk end trim](#)
- B◄ 1. Trunk lid weatherstrip

Trunk lid release cable and trunk lid release handle removal steps

- [Trunk rear side trim \(L.H.\)](#)
- [Rear seat](#)
- [Center pillar lower trim](#)
- Cowl side trim
- Accelerator pedal stopper

2. Trunk lid release handle
3. Trunk lid release cable

Trunk lid striker removal steps

- [Rear end trim](#)
4. Trunk lid striker

Trunk lid panel removal steps

5. Trunk lid bumper
6. Trunk lid lock cylinder
7. Trunk lid latch assembly
8. Trunk lid hinge mounting bolt
9. Trunk lid panel assembly

Trunk lid latch assembly removal

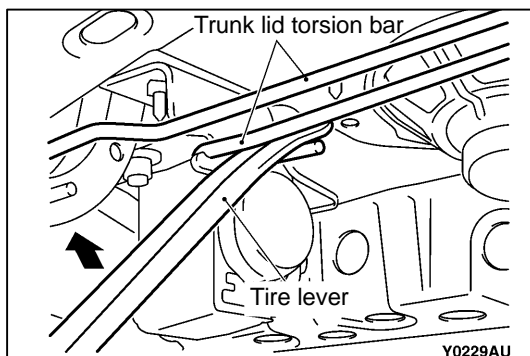
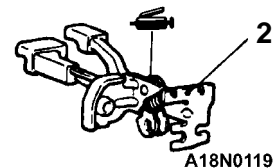
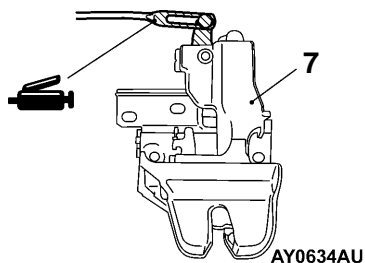
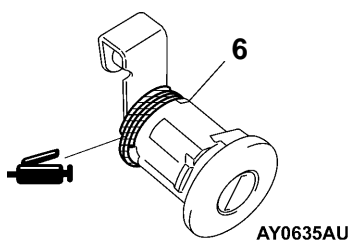
7. Trunk lid latch assembly

Trunk lid hinge removal steps

- Rear shelf trim
 - [Rear seat](#)
9. Trunk lid panel assembly
 10. Trunk lid torsion bar <RH>
 11. Trunk lid torsion bar <LH>
 12. Trunk lid hinge



Grease application area



REMOVAL SERVICE POINT

◀▶ TRUNK LID TORSION BAR REMOVAL

Insert the tire lever into the torsion bar, and then pull upward the tire lever to remove the torsion bar as shown in the illustration.

NOTE

As the left and right trunk lid torsion bars are crossed at the center, first remove the front trunk lid torsion bar at the center.

INSTALLATION SERVICE POINTS

▶◀ TRUNK LID TORSION BAR INSTALLATION

Install the trunk lid torsion bar by the following procedure.

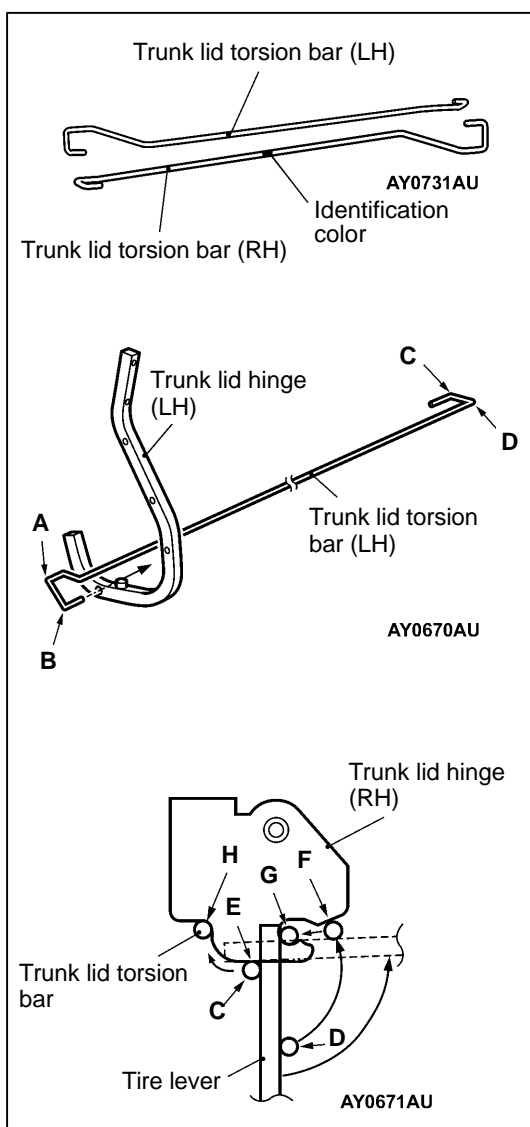
1. Ensure that there is the identification color at the center of the trunk lid torsion bar.

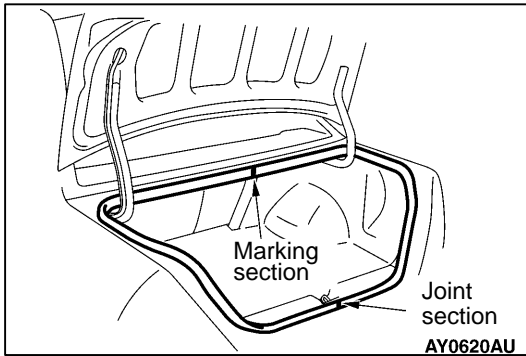
Trunk lid torsion bar	Identification color
LH	—
RH	Red

Caution

As the trunk lid torsion bar (RH) is painted with differentiation color in the middle to differentiate between RH and LH, be careful when installing.

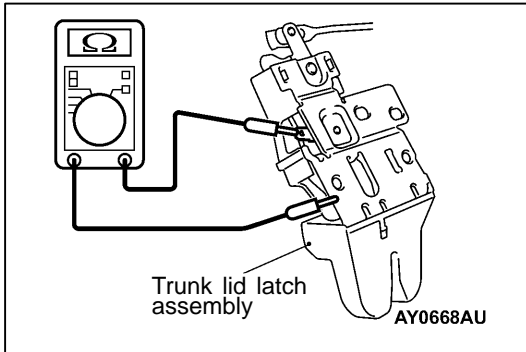
2. Install the trunk lid torsion bar(LH) as follows.
 - (1) For terminal A, insert the trunk lid hinge (LH) into the fixed hole B
 - (2) For terminal C, touch the trunk lid hinge (RH) against portion E.
 - (3) For terminal D, insert the trunk lid hinge (RH) into portion F until portion G while twisting with the tool such as a tire lever, etc.
 - (4) For terminal C, set the trunk lid hinge (RH) at portion H while twisting with the tool such as a tire lever etc.
3. Install the trunk lid torsion bar (RH) in the same way as above.





►B◄ Trunk lid weatherstrip installation

aligning the trunk lid weatherstrip marking section at the body center to install.



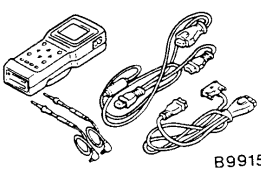
INSPECTION

TRUNK LID LATCH SWITCH CONTINUITY CHECK

Switch position	Terminal No.	
	1	Earth
Latch open	○	○
Latch closed		

KEYLESS ENTRY SYSTEM

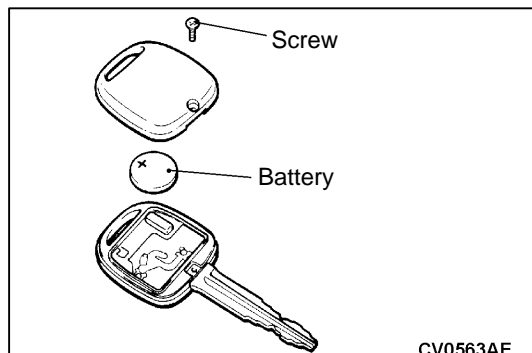
SPECIAL TOOL

Tool	Number	Name	Use
	MB991502	MUT-II sub assembly	Encrypted code registration

TROUBLESHOOTING

DIAGNOSIS FUNCTION

The keyless entry system is controlled by the SWS (Smart Wiring System). For troubleshooting, refer to [SWS Diagnosis](#).



ON-VEHICLE SERVICE

HOW TO REPLACE A BATTERY OF THE TRANSMITTER

1. Remove the set screw to remove the battery from the transmitter.
2. Install a battery with its (+) side facing the top.

Battery required for replacement:

Coin type battery CR1616

3. Check to see if the keyless entry system operates.

NOTE

- (1) Do not let water or dust stick to the inside of the transmitter when it is open. Also, do not touch the precision electronic device.
- (2) Entry of water and dusts into the transmitter will cause malfunction.

ENCRYPTED CODE REGISTRATION METHOD

Each individual encrypted code is registered inside the transmitter, and so it is necessary to register these codes with the EEPROM inside the ETACS-ECU in the following cases.

- When either the transmitter or ETACS-ECU is replaced;
- If a second transmitter is to be used;
- If it appears that a problem is occurring because of faulty registration of a code.

A maximum of four different codes can be stored in the memory area of the EEPROM (four different transmitters can be used). When the code for the first transmitter is registered, the previously-registered codes for four transmitters are cleared. Therefore, if you are using more than two transmitters or are adding a second transmitter, the codes for all the transmitters must be registered at the same time.

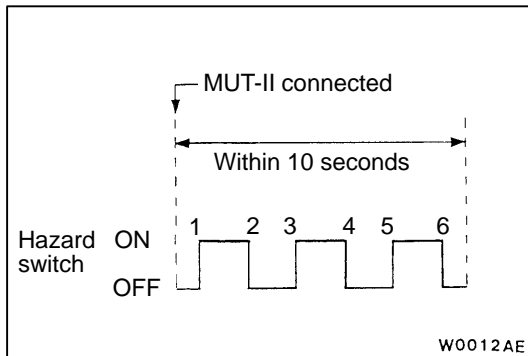
1. Check that the doors lock normally when the ignition key is inserted into the door key cylinder and turned.
2. Insert the ignition key in the ignition switch.
3. Connect the MUT-II to the diagnosis connector.

NOTE

This sets the system in encrypted code registration standby mode. If MUT-II is not used, connect terminal No.1 of the diagnosis connector to earth.

Caution

Always turn the ignition switch to LOCK (OFF) position before connecting and disconnecting the MUT-II or earth.



4. Within 10 seconds after connecting the MUT-II or earth, press the hazard switch six times.

NOTE

- (1) The doors will lock and unlock once after pressing the hazard switch six times, and the system will switch to registration mode.
 - (2) The hazard switch alternates between ON and OFF each time pressing the hazard switch (Refer to illustration).
5. Press the lock switch or unlock switch of the transmitter switch, and then press it two times within 10 seconds of the first press. This will register the code.
 6. After registration is completed, the doors will be automatically locked and unlocked once.
 7. If you are using more than two transmitters or have added a second transmitter, the same registration procedure should be carried out for the remaining transmitters, and it should be carried out within one minute after registration of the code for the first transmitter has been completed. The registration procedure is all the same for all transmitters.
 8. Registration mode will be terminated under the following conditions.
 - When the encrypted codes for four transmitters have been registered;
 - When one minute has passed after registration mode started;
 - When the MUT-II is disconnected (earth is released);
 - When the ignition key is removed;
 9. After registration mode has been completed, carry out the followings to make sure that the keyless entry system operates.
 - Pull the ignition key out.
 - Close all of the doors.

MULTIMODE KEYLESS ENTRY FUNCTION CHECK

1. Lower the driver seat side door window glass.
2. Close all doors.
3. Press the transmitter LOCK switch for more than 1 second, and check if the driver seat side door window glass rises.
4. If faulty, refer [troubleshooting](#).

SUNROOF

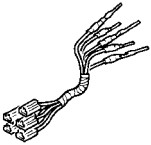
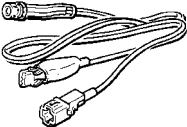
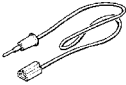

SERVICE SPECIFICATION

Items	Standard value
Roof lid glass operating current A (20°C)	7 or less

SEALANT

Items	Specified sealant
Rear drip	3M ATD Part No.8531 or 3M ATD Part No.8646 or equivalent

SPECIAL TOOL

Tool	Number	Name	Use
A  B  C  D  C991223	MB991223 A:MB991219 B:MB991220 C:MB991221 D:MB991222	Harness set A: Test harness B: LED harness C: LED harness adapter D: Probe	Terminal voltage measurement A: Connector pin contact pressure check B: Power circuit check C: Power circuit check D: Commercial tester connection

TROUBLESHOOTING

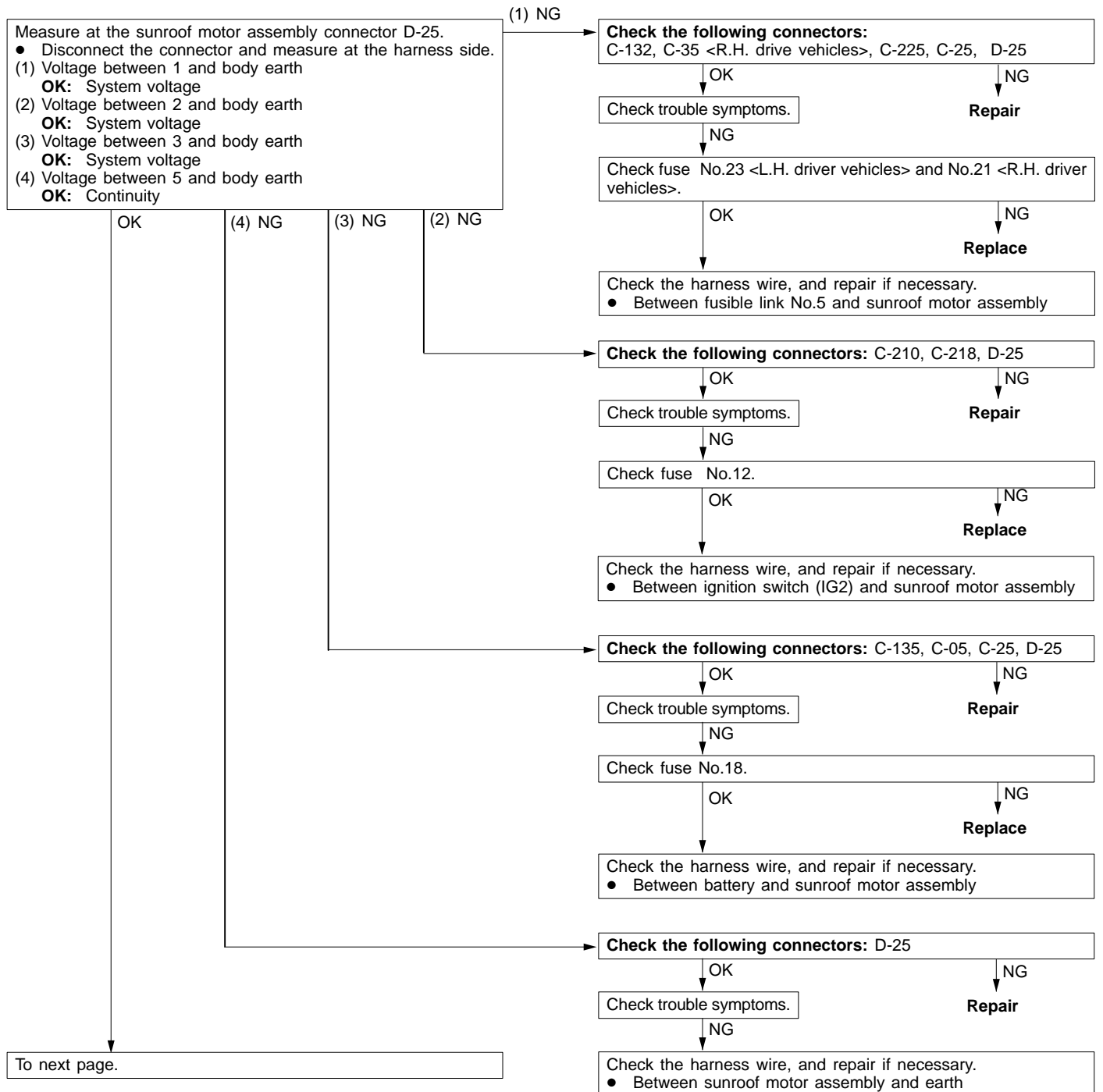
INSPECTION CHART FOR TROUBLE SYMPTOMS

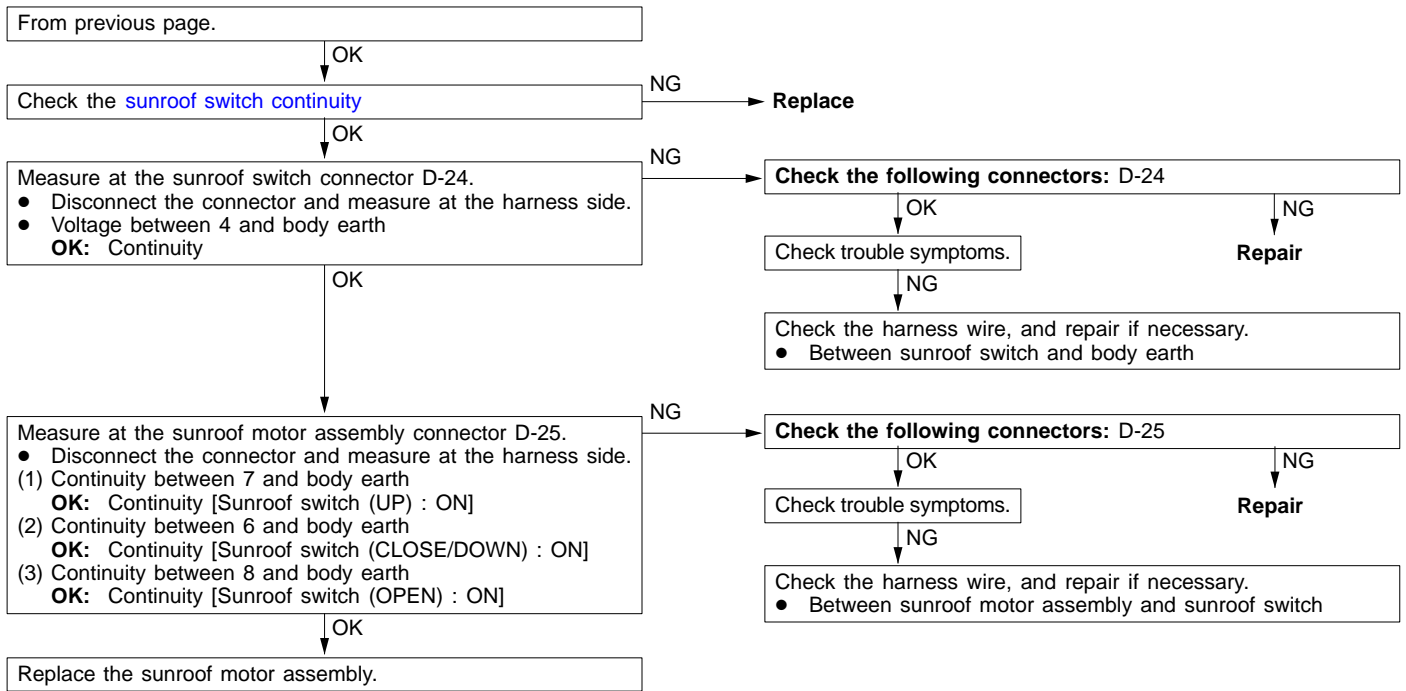
Trouble symptom	Inspection procedure
The sunroof does not operate when the ignition switch is turned to ON.	1
The motor does not reverse its direction when a load of 140 N or more is applied while the sunroof is closing.	2
The sunroof timer function does not work normally.	Refer to Troubleshooting

INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

INSPECTION PROCEDURE 1

The sunroof does not operate when the ignition switch is turned to ON.	Probable cause
The cause may be a malfunction of a sunroof switch, sunroof motor assembly power supply circuit or earth circuit.	<ul style="list-style-type: none"> Malfunction of sunroof switch Malfunction of sunroof motor assembly Malfunction of wiring harness or connector



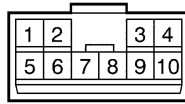


INSPECTION PROCEDURE 2

The motor does not reverse its direction when a load of 140 N or more is applied while the sunroof is closing.	Probable cause
<p>The built-in sunroof ECU of the sunroof motor assembly monitors the load state according to the current flowing to the motor, and reverses the motor when load above a certain level is applied. (Prevent catching)</p> <p>If the motor does not reverse even when overload is applied, malfunction of the sunroof-ECU may be suspected.</p>	<ul style="list-style-type: none"> Malfunction of sunroof motor assembly

Replace the sunroof motor assembly.

SUNROOF MOTOR ASSEMBLY TERMINAL VOLTAGE CHART



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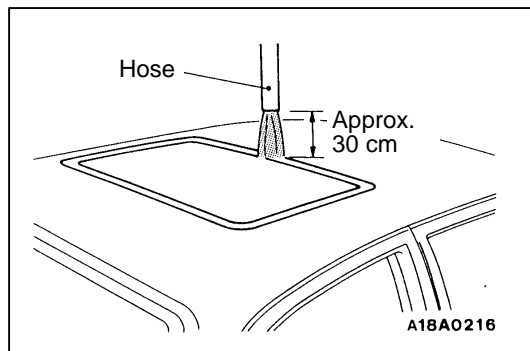
Terminal No.	Check Item	Check Condition		Normal Condition
1	Motor power supply	Always		System voltage
2	Sensor power supply	Ignition switch: ON		System voltage
3	Sunroof-ECU power supply	Always		System voltage
5	Earth	Always		0 V
6	Sunroof switch (CLOSE, DOWN input)	Sunroof switch (close position or down position)	ON	0 V
			OFF	System voltage
7	Sunroof switch (UP input)	Sunroof switch (up position)	ON	0 V
			OFF	System voltage
8	Sunroof switch (OPEN input)	Sunroof switch (open position)	ON	0 V
			OFF	System voltage
10	ETACS-ECU power supply	Always		System voltage

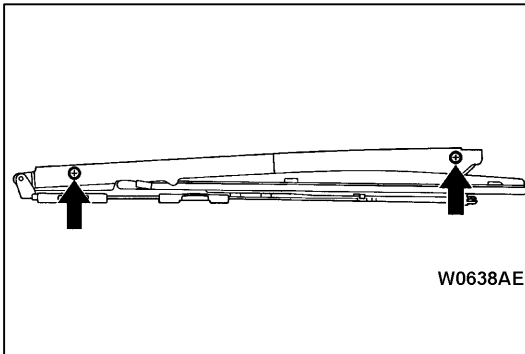
ON-VEHICLE SERVICE

SUNROOF WATER LEAKAGE CHECK

Check if there are any leaks in the sunroof by the following procedures.

1. Fully close the roof lid glass.
2. Using tap water, position the hose tip directly above, and adjust the water pressure so that the height of the water jutting out of the hose tip is about 50 cm.
3. From about 30 cm above the roof, spray tap water for more than 5 minutes at the weather strip.
4. Check if water leaks inside while spraying the water. The water leaking around the roof lid glass is OK if the water flows into the drip.





SUNROOF WORKING ADJUSTMENT

1. Fully close the roof lid glass.
2. Fully open the subshade.
3. Loosen the screws fixing the roof lid glass assembly, move the roof lid glass assembly along the long hole of the drive cable assembly, adjust the height of the roof lid glass, and check that the space between the roof lid glass and body is consistent along the whole circumference.
4. After adjusting, check that the subroof operates smoothly.

SUNROOF TIMER FUNCTION CHECK

Press the ignition switch to the OFF position while closing the door fully, and then make sure that the sunroof operates for 30 seconds. (Refer to [GROUP 54B](#).)

SUNROOF SAFETY MECHANISM CHECK

1. Place an approximately 10mm thick wood piece perpendicularly against the roof lid glass, and close the roof lid glass.
2. Check if when the roof lid glass catches the wood piece, the motor reverses and the roof lid glass opens. If it does not, refer [troubleshooting](#).

SUNROOF OPERATION CHECK

Check that the sunroof operates properly. If it does not, refer [troubleshooting](#).

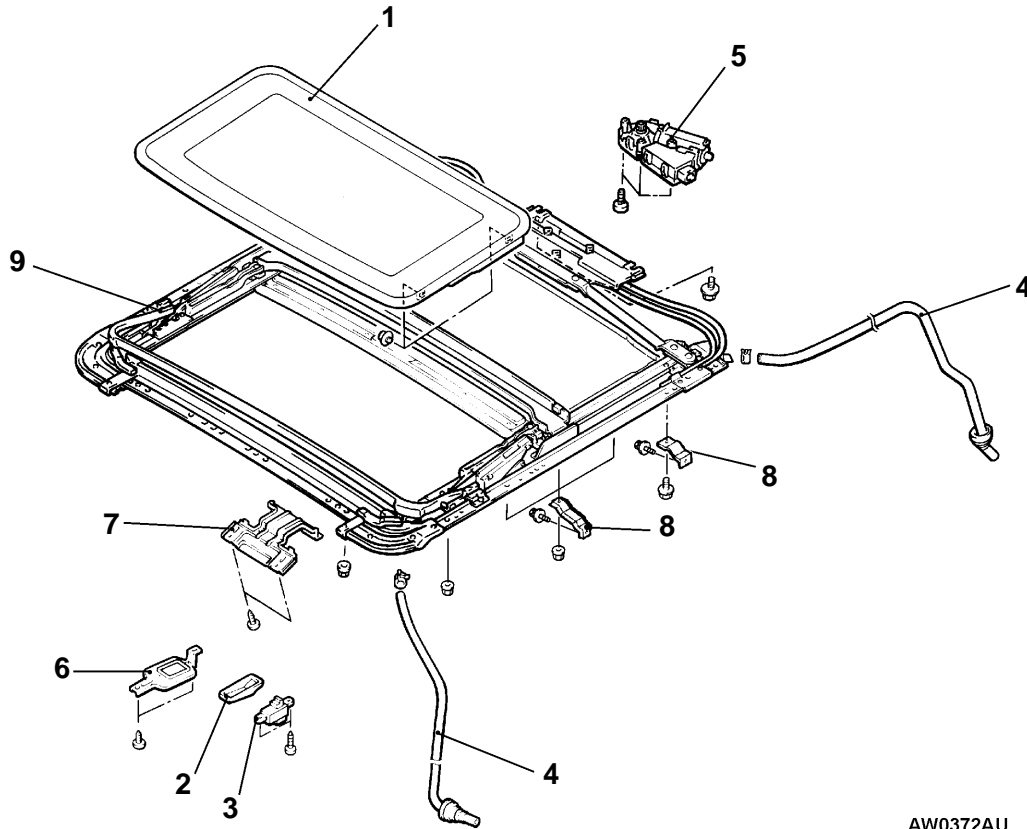
SUNROOF

REMOVAL AND INSTALLATION

Post-installation Operation

Roof Lid Glass Assembly and Sunroof Assembly

- [Sunroof Water Test](#)
- [Sunroof Fit Adjustment](#)



AW0372AU

1. Roof lid glass assembly

Sunroof switch removal steps

2. Sunroof switch cover
3. Sunroof switch

Drain hose removal steps

- Splash shield (Front drain hose)
 - Headlining
 - A/T-ECU (Front left side drain hose)
4. Drain hose

Sunroof motor assembly removal steps

- Headlining
5. Sunroof motor assembly

Sunroof assembly removal steps

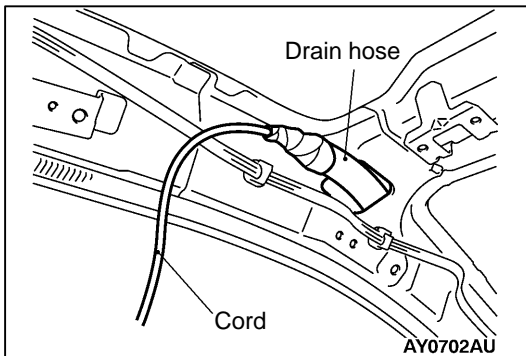
- Headlining
4. Drain hose
6. Sunroof switch bracket
7. Room lamp bracket
8. Set bracket
9. Sunroof assembly

◀A▶ ▶A▶

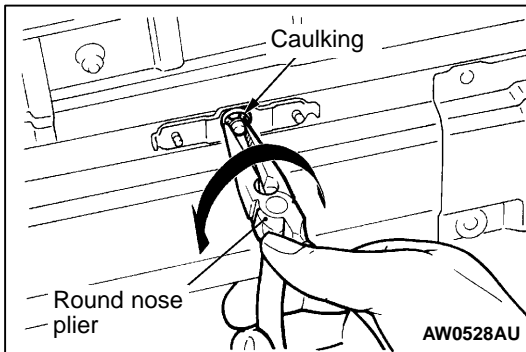
▶B▶

◀A▶ ▶A▶

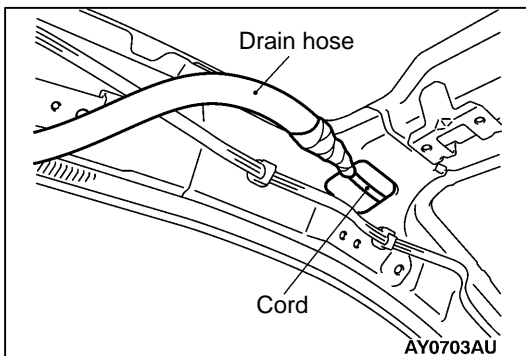
◀B▶

**REMOVAL SERVICE POINTS****◀A▶ DRAIN HOSE REMOVAL**

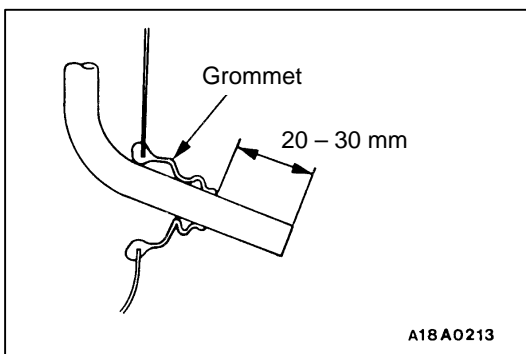
Tie a cord to the end of the drain hose, and wind tape around it so that there is no unevenness. Then pull the drain hose out to the wheel house side.

**◀B▶ SUNROOF ASSEMBLY REMOVAL**

Using the round nose plier or etc., turn the caulking the way shown in the illustration and then remove the sunroof assembly.

**INSTALLATION SERVICE POINTS****▶A◀ DRAIN HOSE INSTALLATION**

1. Tie the cord that was used during removal to the end of the drain hose, and wind tape around it so that there is no unevenness.
2. Pull the cord to pass through the drain hose.



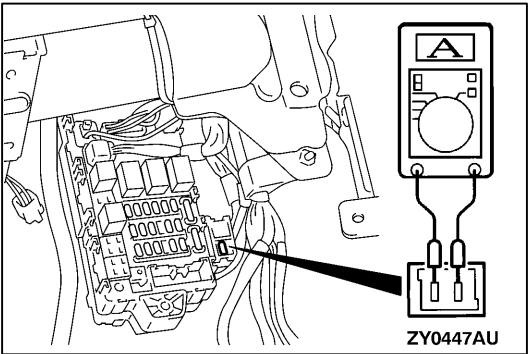
3. Install the grommet, and then position the drain hose so that it protrudes from the grommet as shown in the illustration.

▶B◀ SUNROOF MOTOR ASSEMBLY INSTALLATION

1. Install the roof lid glass assembly and the sunroof motor assembly with the sunroof assembly.
2. Connect the sunroof motor assembly connector and the sunroof switch connector to the vehicle wiring harness connector.
3. Operate the sunroof switch to slide the roof lid glass to the fully-open position, and then tilt it up in steps of 30 mm to the fully-open position and then keep pressing the switch for 0.5 second or more.

NOTE

During initialization (learning mode), use only the CLOSE/OPEN switch to move the roof lid glass from the fully-closed position to the fully-open position. During initialization, the TILT UP switch will not work when pressed. Furthermore, the sunroof-ECU will stop running in learning mode as soon as the glass is titled up.



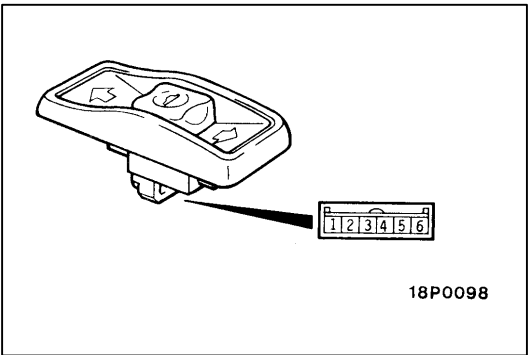
INSPECTION

ROOF LID GLASS OPERATING CURRENT CHECK

1. Remove the sunroof fuse, and connect the circuit tester as shown in the figure.
2. Measure at the middle segments excluding when the subroof switch is turned ON to start the sunroof, when the sunroof is fully closed or fully closed, and when fully tilted up.

Standard value: 7 A or less (at 20°C)

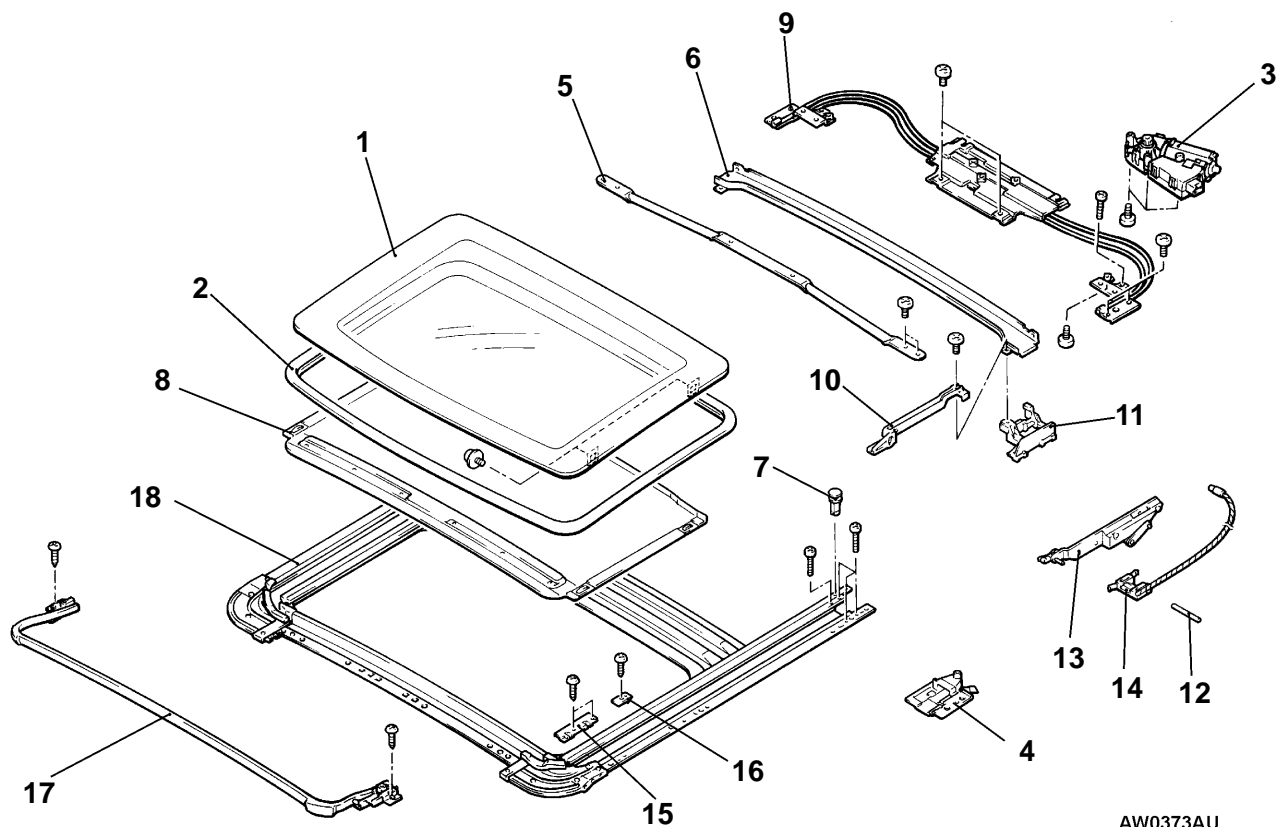
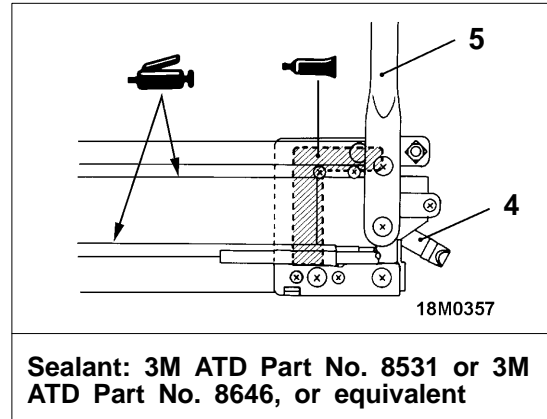
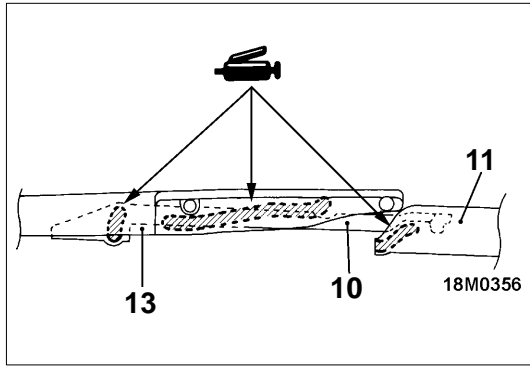
3. If the operating current of the roof lid glass exceeds the standard value, check the following.
 - Installation condition, warping or jamming of sunroof assembly
 - Sticking of drive cable
 - Tilt of roof lid glass



SUNROOF SWITCH CONTINUITY CHECK

Switch position	Terminal No.			
	3	4	5	6
Open		○	○	
OFF				
Tilt up	○	○		
Slide close, Tilt down		○		○

DISASSEMBLY AND ASSEMBLY



AW0373AU

Disassembly steps

1. Roof lid glass assembly
2. Weatherstrip
3. Sunroof motor assembly
4. Rear drip
5. Frame
6. Drip rail assembly
7. Clip <left side only>
8. Sun shade assembly
9. Drive unit assembly

10. Drip link
11. Drip shoe assembly
12. Shaft
13. Lifter assembly
14. Cable assembly
15. Set plate
16. Rear set plate
17. Deflector assembly
18. Frame assembly