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# BODY

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## GENERAL

### OUTLINE OF CHANGES

Due to the introduction of 5-door models, the following service procedures have been added. The other items are the same as before.

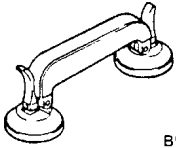
- Quarter window glass removal and installation
- Rear door assembly removal and installation
- Front door trim removal and installation
- Rear door trim and waterproof film removal and installation
- Front door glass and regulator installation service points
- Rear door glass and regulator removal and installation
- Rear door handle and latch removal and installation
- Sunroof removal and installation

## WINDOW GLASS

### ADHESIVE

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

### SPECIAL TOOLS

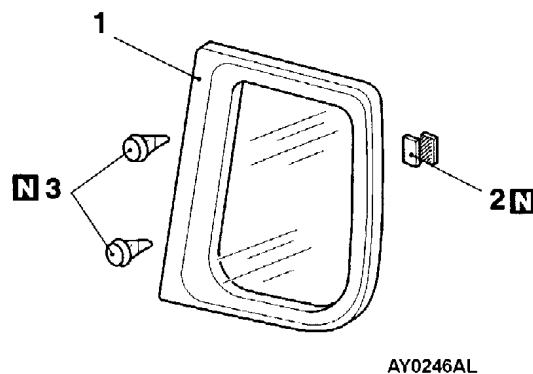
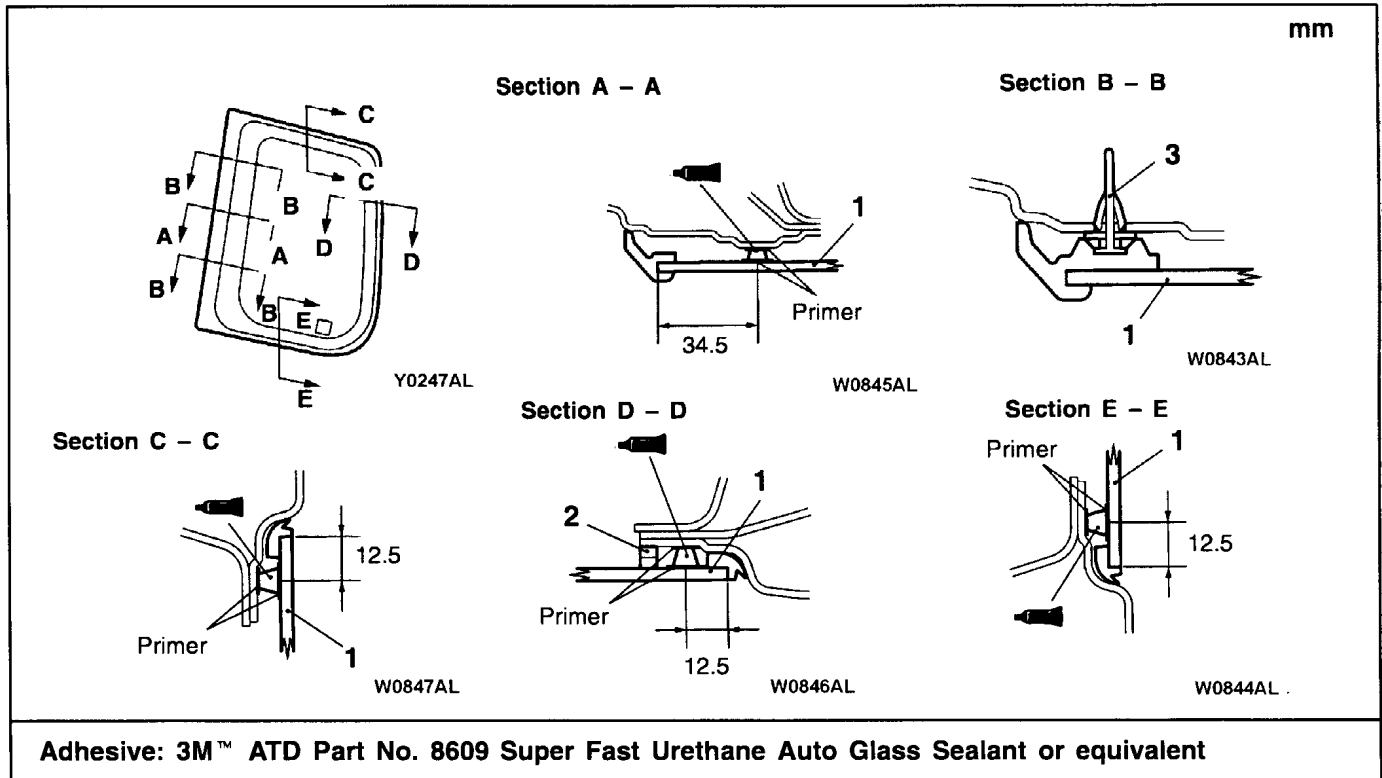
| Tool                                                                                           | Number   | Name                 | Use                                              |
|------------------------------------------------------------------------------------------------|----------|----------------------|--------------------------------------------------|
| <br>B990480 | MB990480 | Quarter window glass | Removal and installation of quarter window glass |

## QUARTER WINDOW GLASS

### REMOVAL AND INSTALLATION

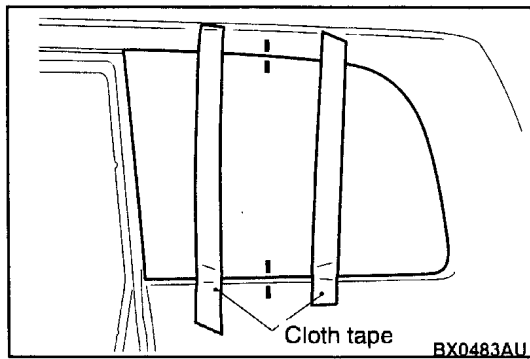
#### Pre-removal and Post-installation Operation

- Quarter Trim, Lower (R.H.) Removal and Installation (Refer to GROUP 52A.)
- Headlining Removal and Installation (Refer to GROUP 52A.)



#### Removal steps

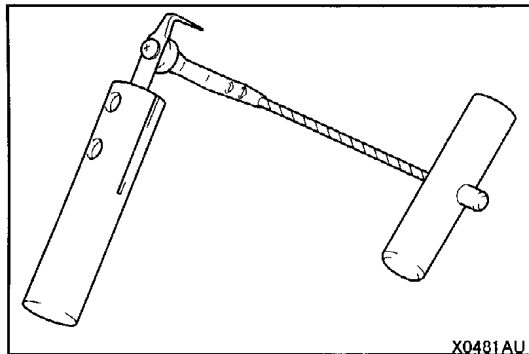
- ◀A▶ ▶A▶ 1. Quarter window glass  
▶A▶ 2. Dual lock fastener  
▶A▶ 3. Clip



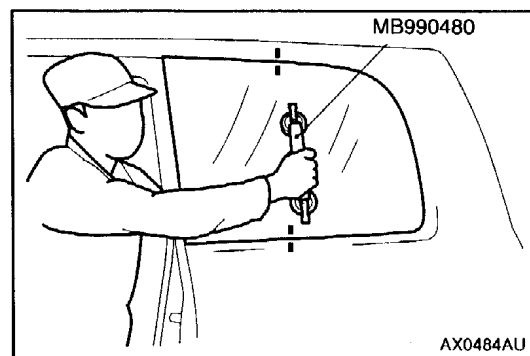
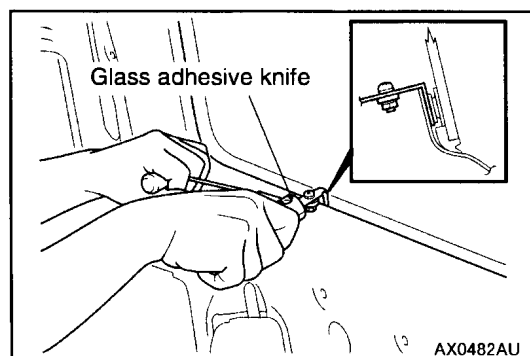
## REMOVAL SERVICE POINT

### ◀A▶ QUARTER WINDOW GLASS REMOVAL

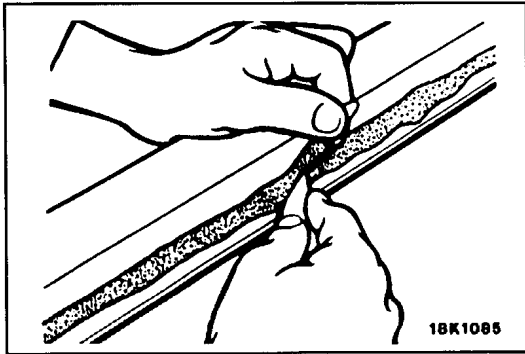
1. Apply cloth tape to protect quarter window glass.
2. Make mating marks on the quarter window glass and body.



3. Use glass adhesive knife to cut away adhesive. Keep glass adhesive knife at right angles with body flange (from inside the vehicle), and put the blade at body flange. Then cut away adhesive along the body flange.



4. Use special tool MB990480 to remove the quarter window glass.



5. Use a knife to cut away the remaining adhesive so that the thickness is within 2 mm around the entire circumference of the body flange.
6. Finish the flange surfaces so that they are smooth.

**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.
7. When reusing quarter window glass, remove the remaining adhesive on the quarter window glass completely. Then, decrease the windshield with isopropyl alcohol.
  8. Decrease the body flange in the same way.

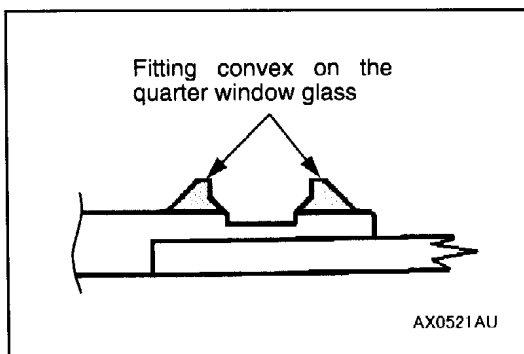
**Caution**

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

## INSTALLATION SERVICE POINT

### ►A◀ CLIP/DUAL LOCK FASTENER/ QUARTER WINDOW GLASS INSTALLATION

1. Carry out the following procedure to re-install quarter window glass.
  - (1) Fit the clip into the body.

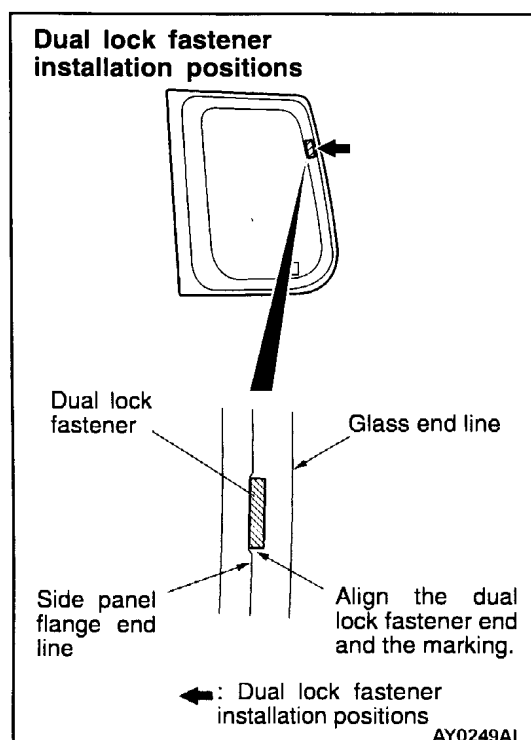


- (2) Cut away the clip fitting convex on the quarter window glass.

**NOTE**

If you fail to cut away the convexes, the glass may be fitted improperly.

2. Use a unleaded gasoline to degrease the glass and the vehicle body, which the dual-lock fasteners are adhered to.



3. Install the dual lock fasteners to the body flange in the specified positions.
4. Install the dual lock fasteners to the windshield in the positions corresponding to the ones on the body flange where the dual lock fasteners have been installed.
5. Apply the primer and adhesive.
6. Install the glass in the same manner as for the windshield.

## DOOR

### SERVICE SPECIFICATIONS

| Items                                               |                                          |       | Standard value |
|-----------------------------------------------------|------------------------------------------|-------|----------------|
| Glass pad and glass holder installation position mm | Between glass holder and glass rear end  | Front | 50.0           |
|                                                     |                                          | Rear  | –              |
|                                                     | Between glass holders                    | Front | 419.0 – 421.0  |
|                                                     |                                          | Rear  | –              |
|                                                     | Between glass holder and glass front end | Front | 45.0           |
|                                                     |                                          | Rear  | 53.0           |

## SEALANT

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

## SPECIAL TOOL

| Tool           | Number   | Name             | Use               |
|----------------|----------|------------------|-------------------|
| <p>B990784</p> | MB990784 | Ornament remover | Door trim removal |

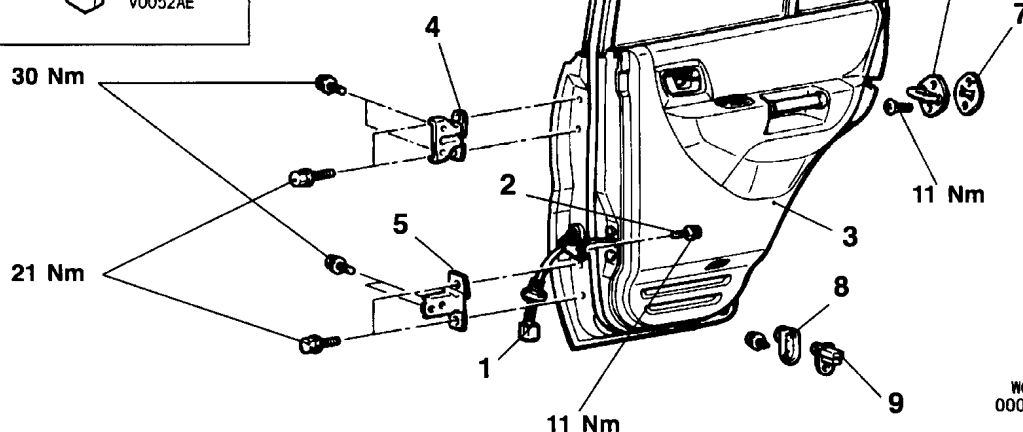
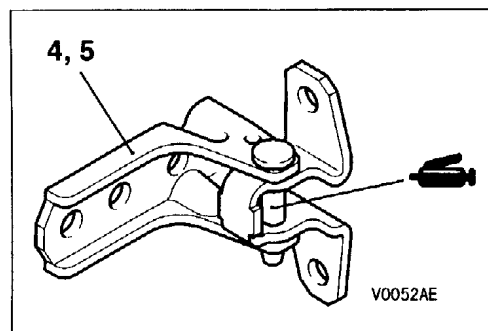
# TROUBLESHOOTING

The power window and central door locking is controlled by ETACS-ECU. For troubleshooting, refer to GROUP 54B – Troubleshooting.

## REAR DOOR ASSEMBLY

### REMOVAL AND INSTALLATION

Post-installation Operation  
Door Fit Adjustment



#### Door assembly removal steps

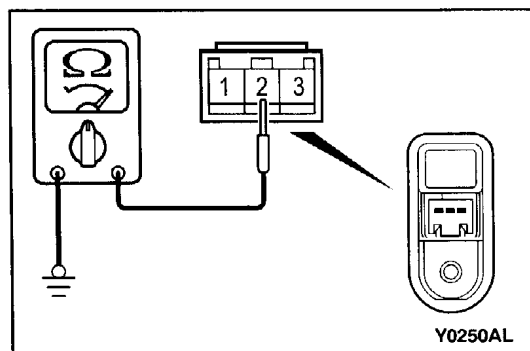
1. Harness connector
2. Door check connecting bolt
3. Door assembly
4. Door upper hinge
5. Door lower hinge

#### Striker removal steps

6. Striker
7. Striker shim

#### Door switch removal steps

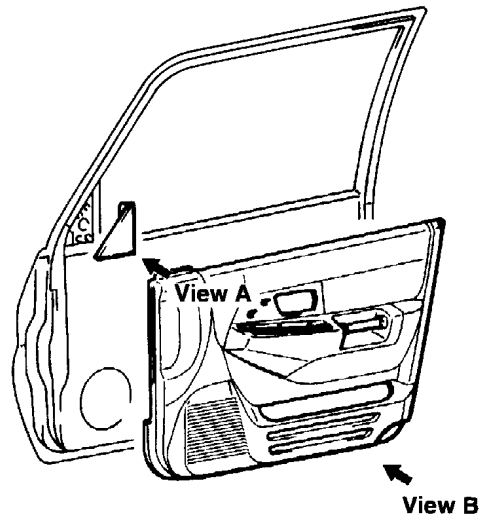
8. Door switch cap
9. Door switch



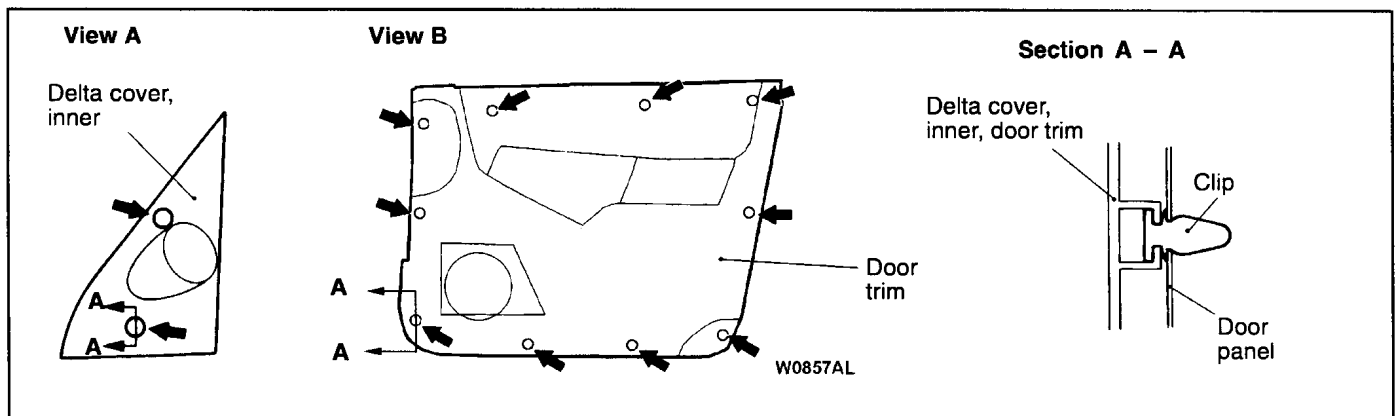
## INSPECTION

### DOOR SWITCH CONTINUITY CHECK

| Switch position | Terminal number |       |
|-----------------|-----------------|-------|
|                 | 2               | Earth |
| Released (ON)   |                 |       |
| Depressed (OFF) |                 |       |

**FRONT DOOR TRIM AND WATERPROOF FILM****CLIP AND CLAW POSITIONS**

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00009375

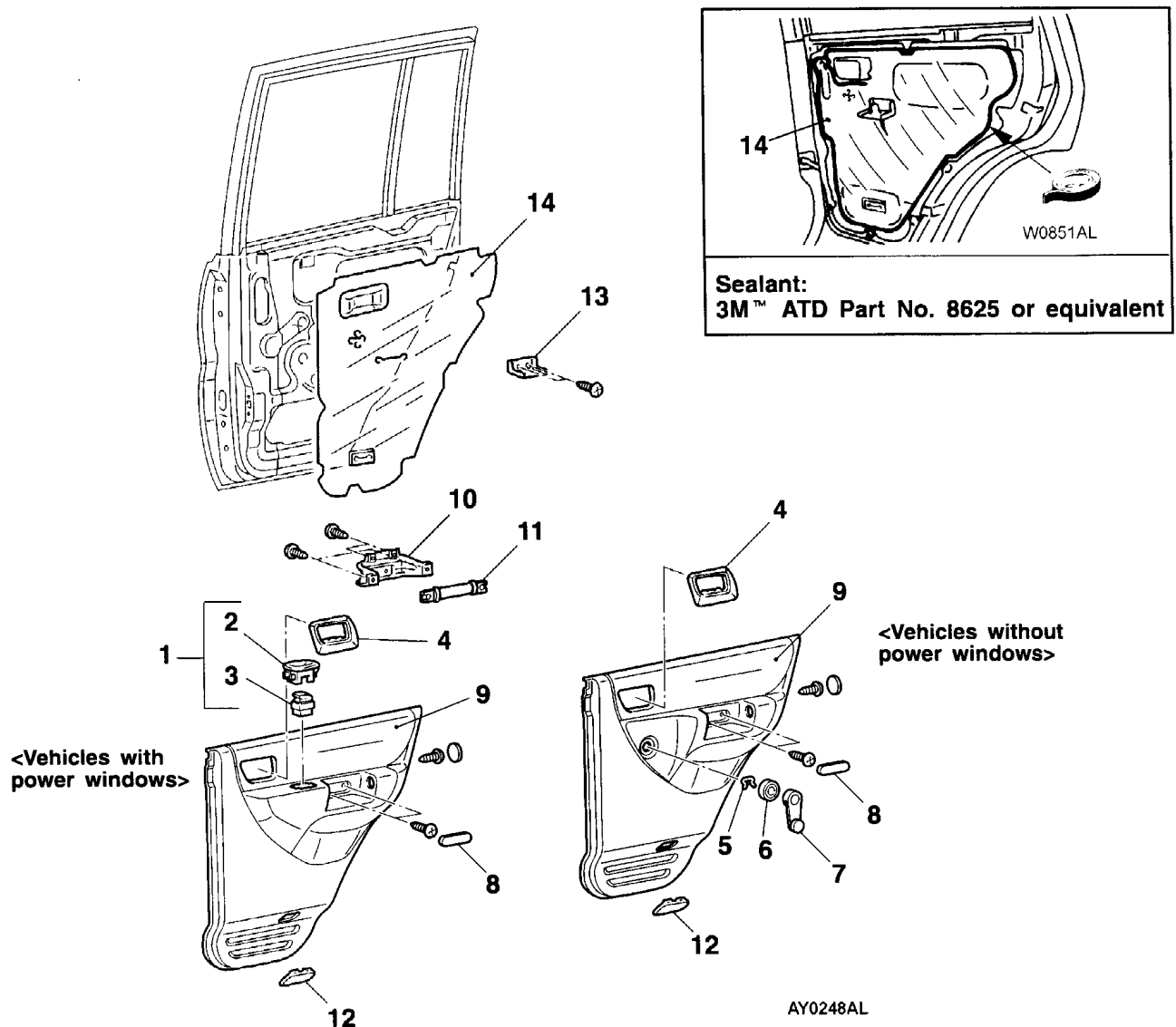
**NOTE**

➡ Clips

↩ Claws

# REAR DOOR TRIM AND WATERPROOF FILM

## REMOVAL AND INSTALLATION

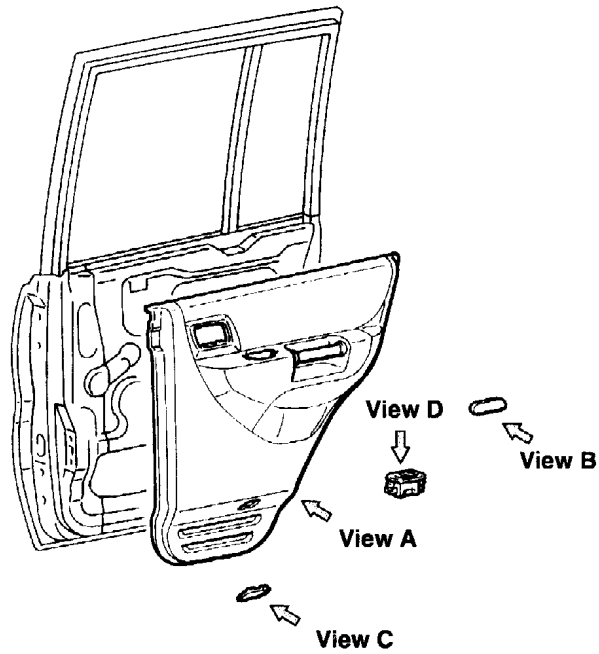


### Removal steps

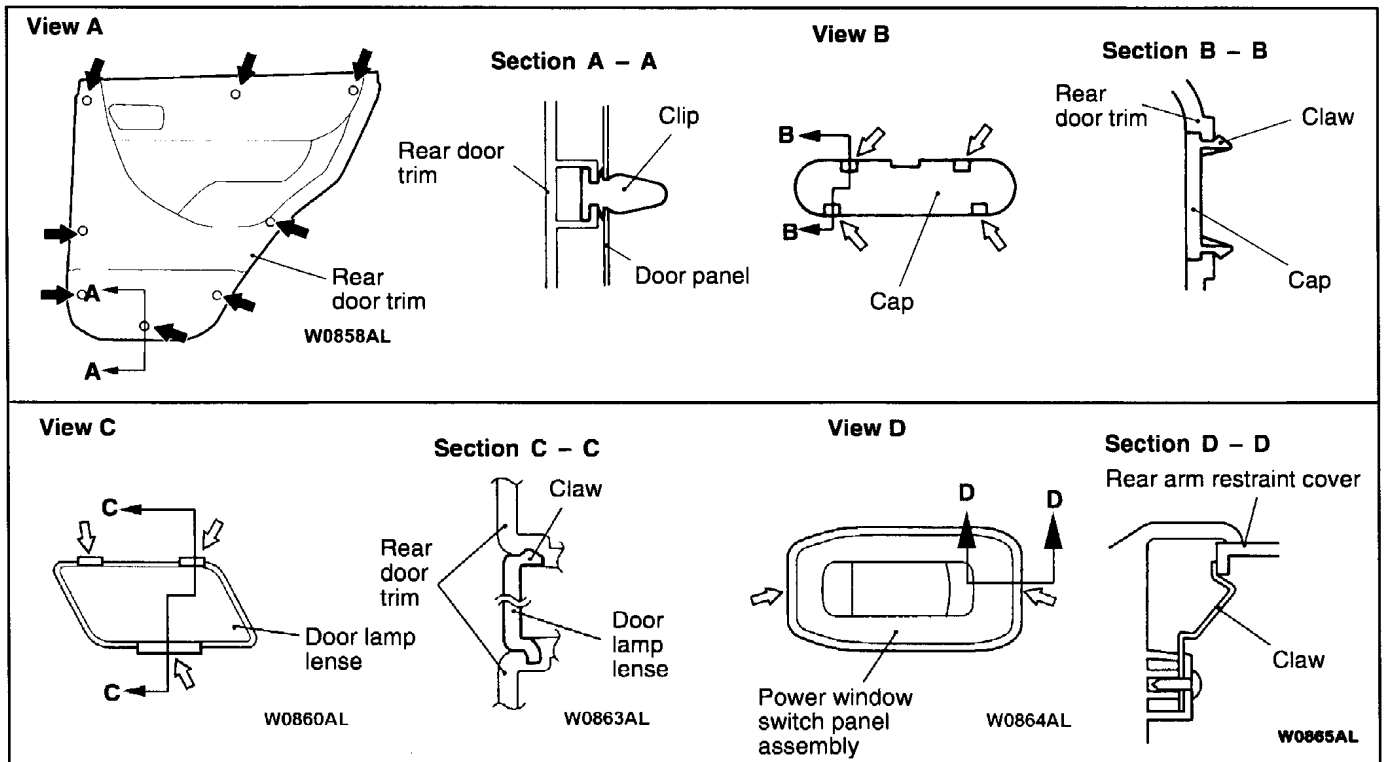
1. Power window switch panel assembly
2. Power window switch panel
3. Power window switch
4. Door inside handle cover
5. Clip
6. Escutcheon
7. Regulator handle

8. Cap
9. Door trim
10. Grip bracket
11. Door grip
12. Door lamp lense
13. Power window switch bracket
14. Waterproof film





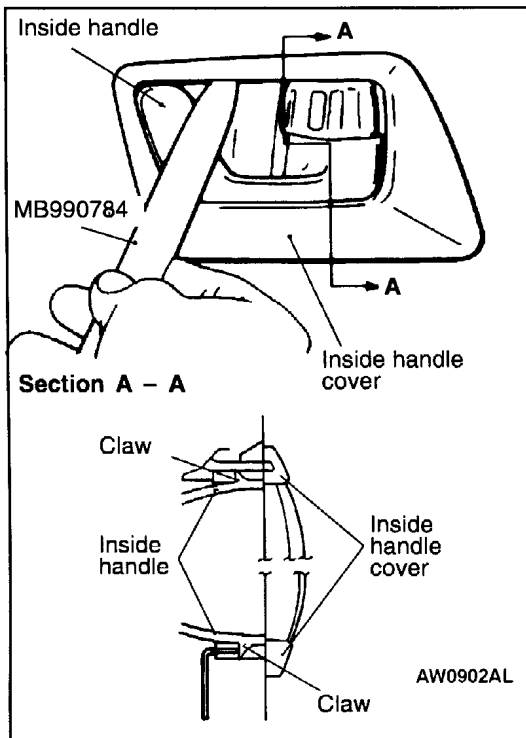
W0856AL



NOTE

- ◀ Clips
- ↪ Claws

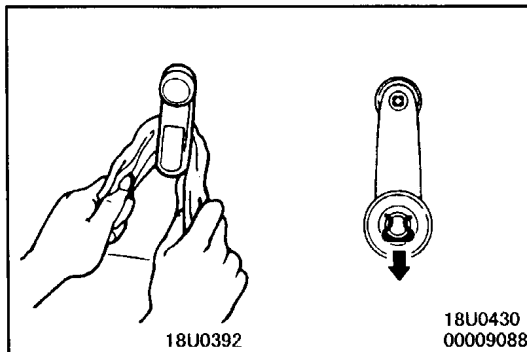
X0020AL



## REMOVAL SERVICE POINTS

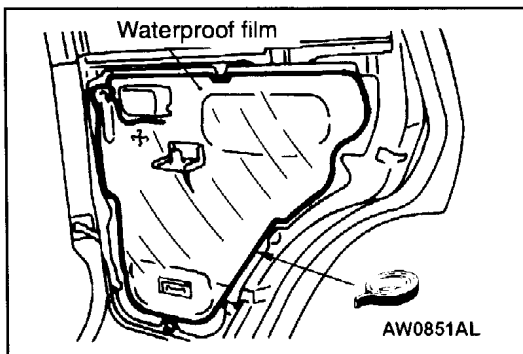
### ◀A▶ DOOR INSIDE HANDLE COVER REMOVAL

1. Insert the special tool between the inside handle upper part and the inside handle cover, and then disengage the upper claw of the inside handle.
2. Disengage the lower claw of the inside handle in the same manner as for the upper claw.
3. Remove the door trim.
4. Remove the inside handle cover from the door trim.



### ◀B▶ CLIP REMOVAL

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



## INSTALLATION SERVICE POINTS

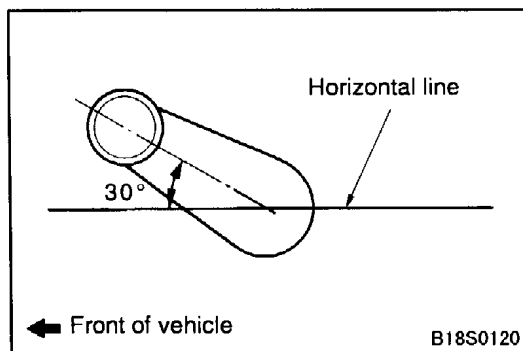
### ▶A◀ WATERPROOF FILM INSTALLATION

Apply the specified sealant to the shown positions of waterproof film, and then attach the waterproof film.

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

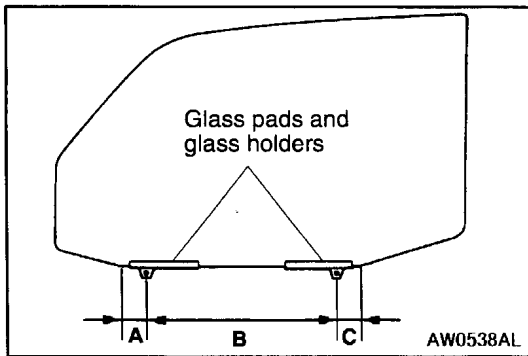
#### Caution

Be sure to apply the sealant below the inner panel water drain holes so as not to plug them.



### ▶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 DOOR GLASS AND REGULATOR

### DOOR WINDOW GLASS/GLASS HOLDER/DOOR GLASS PAD INSTALLATION

1. Install the door glass pads and glass holders to the window glass in the positions shown.

**Standard value (A): 50.0 mm**

**Standard value (B): 419.0 – 421.0 mm**

**Standard value (C): 45.0 mm**

2. Install the glass to the window regulator assembly.

#### **Caution**

**Do not activate the window regulator assemble before installing the glass as the resetting in the limit switch is cancelled.**

## INSPECTION

### POWER WINDOW MAIN SWITCH CONTINUITY CHECK

#### NOTE

Since the power window main switch uses the SWS system, check the continuity with the input signal check method. Refer to GROUP 54B – Troubleshooting.

## REAR DOOR GLASS AND REGULATOR

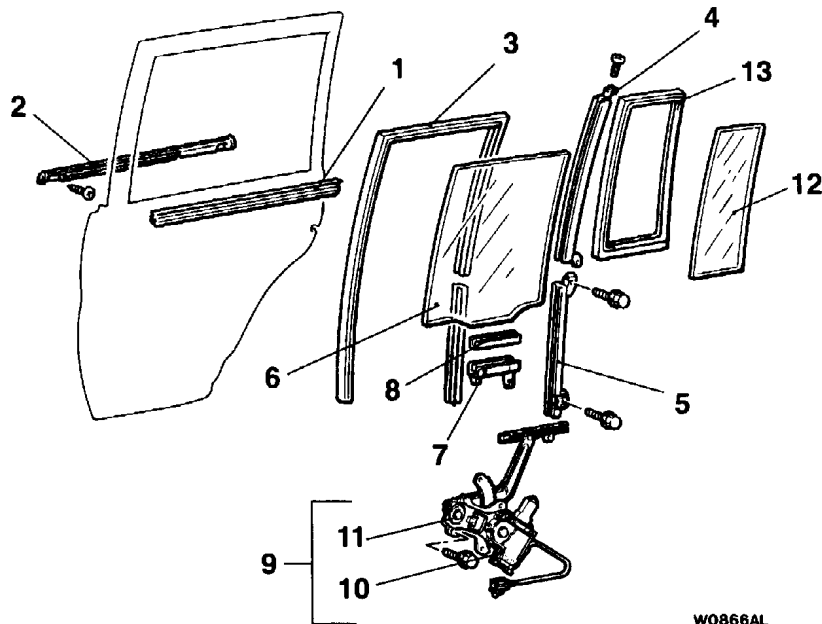
### REMOVAL AND INSTALLATION

#### Pre-removal Operation

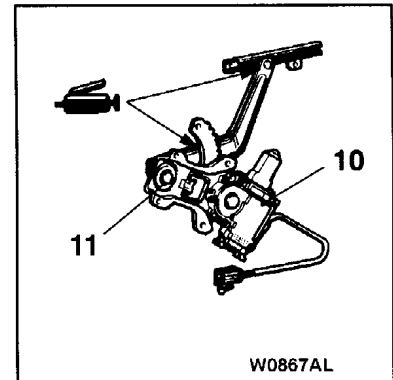
- Door Trim and Waterproof Film Removal (Refer to P.42-9.)

#### Post-installation Operation

- Door Window Glass Adjustment
- Door Trim and Waterproof Film Installation (Refer to P.42-9.)



W0866AL



W0867AL

00009377

#### Door window glass removal steps

1. Door window inner weather strip
2. Door belt line moulding assembly
3. Door window glass runchannel
4. Rear center sash
5. Rear lower sash
6. Rear door window glass
7. Glass holder
8. Door glass pad



#### Power window regulator and motor assembly removal steps

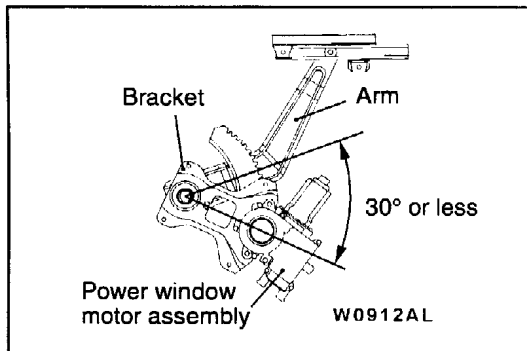
9. Power window regulator and motor assembly
10. Power window motor assembly
11. Power window regulator assembly
12. Stationary window glass
13. Stationary window glass weather strip



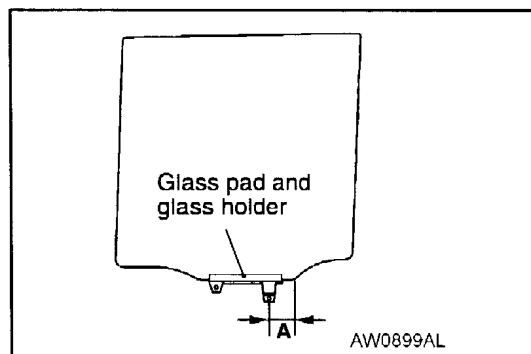
**INSTALLATION SERVICE POINTS****►A◀ POWER WINDOW MOTOR ASSEMBLY/POWER WINDOW REGULATOR ASSEMBLY INSTALLATION**

Adjust the power window motor assembly and power window regulator assembly positions as follows:

1. Connect the power window motor assembly connector and the power window switch connector to the wiring harness of body side.
2. Turn on the power window switch to operate the power window motor for 3 seconds in the direction which the window glass closes.
3. Disconnect the power window motor assembly connector and the power window switch connector from the wiring harness of body side.
4. Assemble the power window motor assembly and the power window regulator so that the arm and bracket are positioned as shown in the illustration, and then install the power window motor assembly.

**Caution**

**When installing the power window regulator, do not set it in the window glass fully-closed position. If installing the power window regulator in that condition, the window glass safety mechanism will not functions correctly.**

**►B◀ REAR DOOR WINDOW GLASS/GLASS HOLDER/DOOR GLASS PAD INSTALLATION**

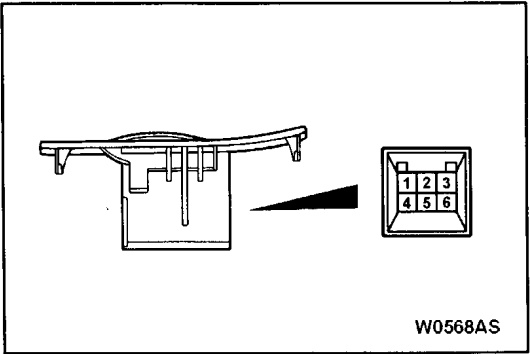
1. Install the door glass pad and glass holder to the window glass in the position shown.

**Standard value (A): 53.0 mm**

2. Install the glass to the window regulator assembly.

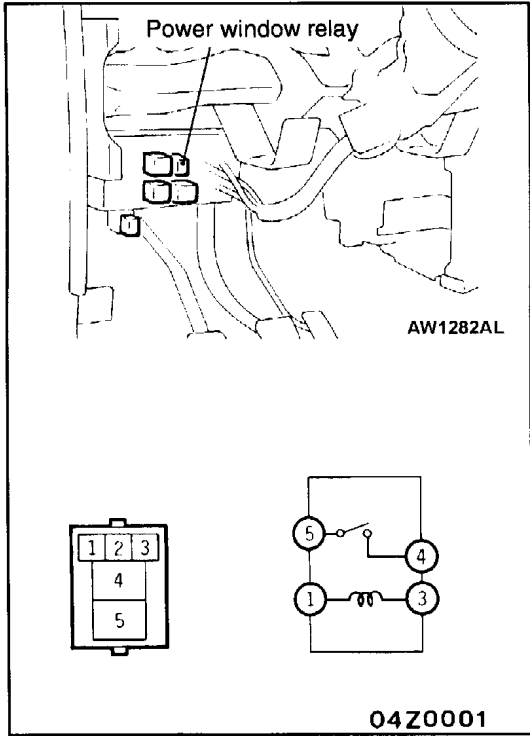
**Caution**

**Do not activate the window regulator assemble before installing the glass as the resetting in the limit switch is cancelled.**



**INSPECTION**  
**POWER WINDOW SUB SWITCH CONTINUITY CHECK**

| Switch position | Terminal No. |   |   |
|-----------------|--------------|---|---|
|                 | 1            | 4 | 6 |
| UP              |              |   |   |
| DOWN            |              |   |   |



**POWER WINDOW RELAY CONTINUITY CHECK**

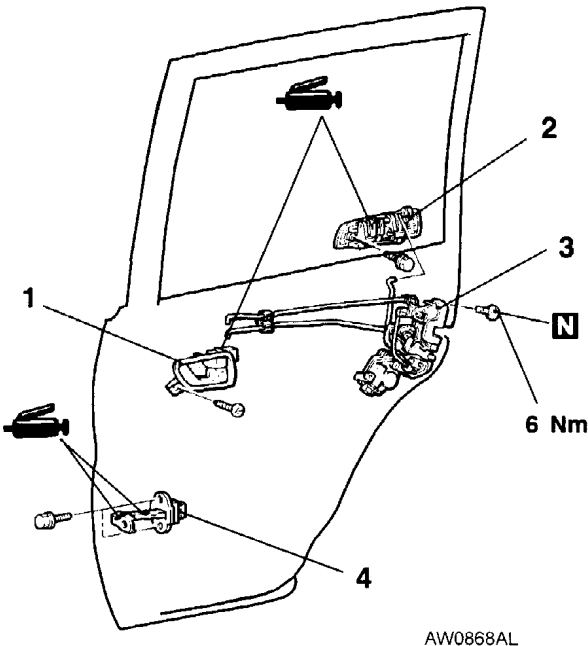
| Battery voltage | Terminal No. |   |   |   |
|-----------------|--------------|---|---|---|
|                 | 1            | 3 | 4 | 5 |
| Not applied     |              |   |   |   |
| Applied         |              |   |   |   |

REAR DOOR HANDLE AND LATCH  
REMOVAL AND INSTALLATION

**Pre-removal Operation**  
Door Trim Removal (Refer to P.42-9.)

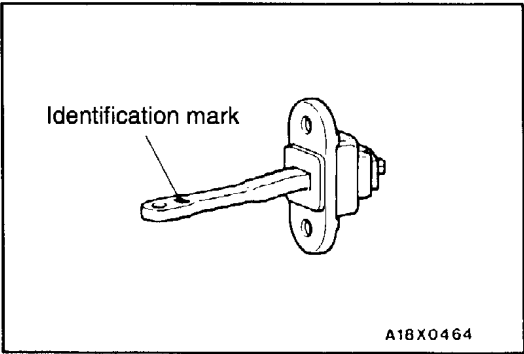
**Post-installation Operation**

- Door Inside Handle Play Check
- Door Outside Handle Play Check
- Door Trim Installation (Refer to P.42-9.)



- Door handle and door latch assembly removal steps**
- B◄
1. Door inside handle
  - Waterproof film (Refer to P.42-9.)
  2. Door outside handle
  3. Door latch assembly

- Door check removal steps**
- A◄
- Waterproof film (Refer to P.42-9.)
  - 4. Door check

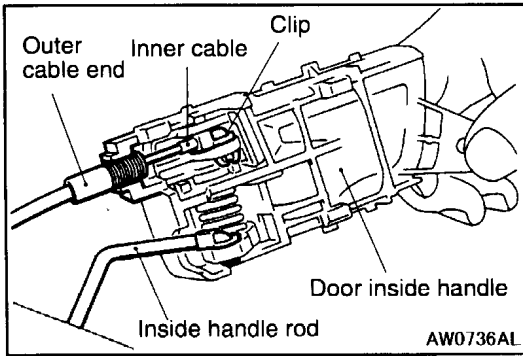


**INSTALLATION SERVICE POINTS**

►A◄ **DOOR CHECK INSTALLATION**

Install with the following identification marks upward.

| Items      | Identification mark |
|------------|---------------------|
| Left door  | 26L                 |
| Right door | 26R                 |



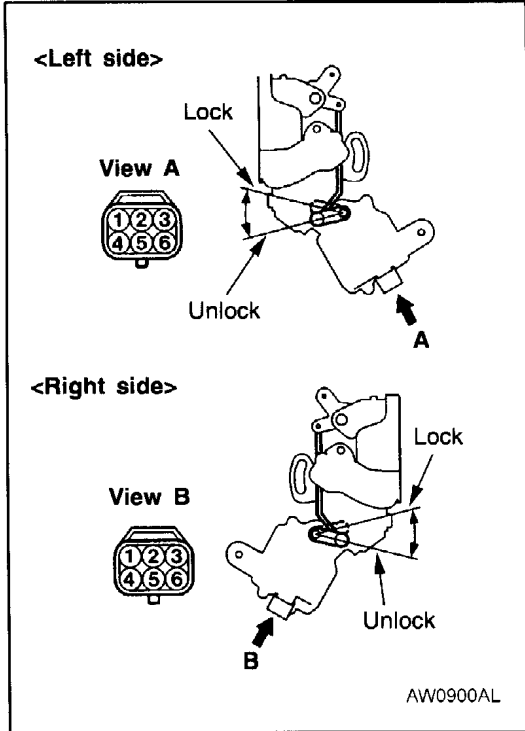
### ►B◄ DOOR INSIDE HANDLE INSTALLATION

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.

### INSPECTION

#### DOOR LOCK ACTUATOR CHECK

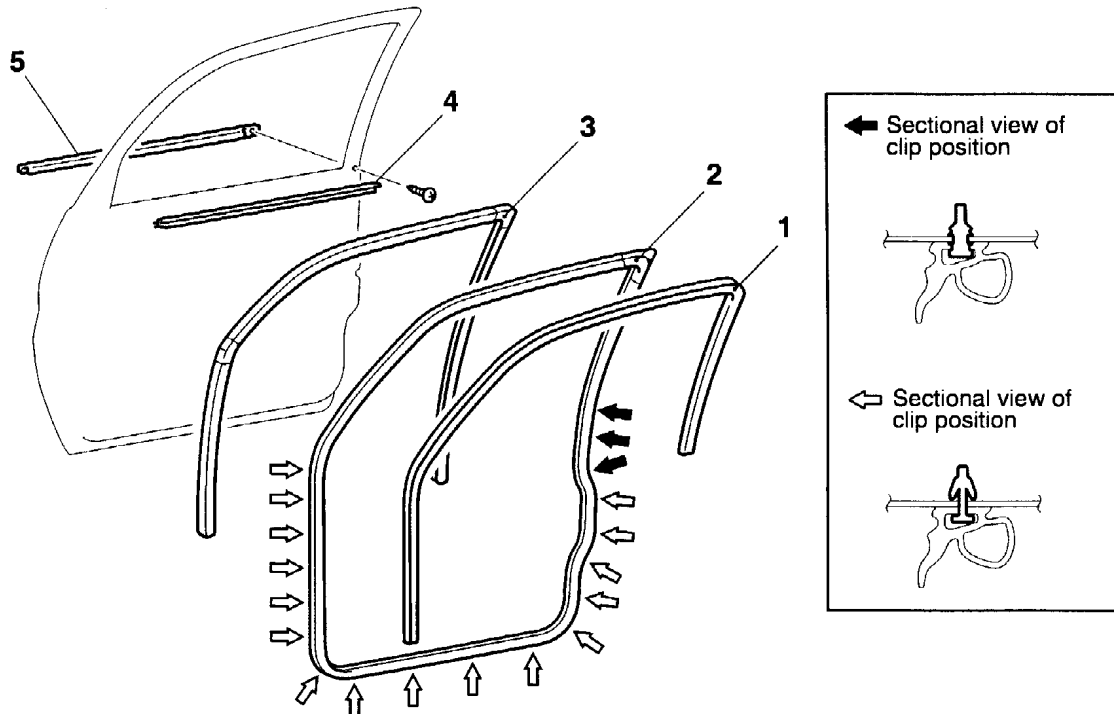
| Rod position | Terminal No. |   | Rod operation  |
|--------------|--------------|---|----------------|
|              | 2            | 3 |                |
| LOCK         | ⊖            | ⊕ | LOCK to UNLOCK |
| UNLOCK       | ⊕            | ⊖ | UNLOCK to LOCK |



# WINDOW GLASS RUNCHANNEL AND DOOR OPENING WHETHERSTRIP

## REMOVAL AND INSTALLATION

<FRONT DOOR>



AY0245AL

### Door inner opening weatherstrip removal steps

- Scuff plate (Refer to GROUP 52A.)
- Cowl side trim (Refer to GROUP 52A.)
- Center pillar lower trim (Refer to GROUP 52A.)

1. Door inner opening weatherstrip

### Door outer opening weatherstrip removal

2. Door outer opening weatherstrip

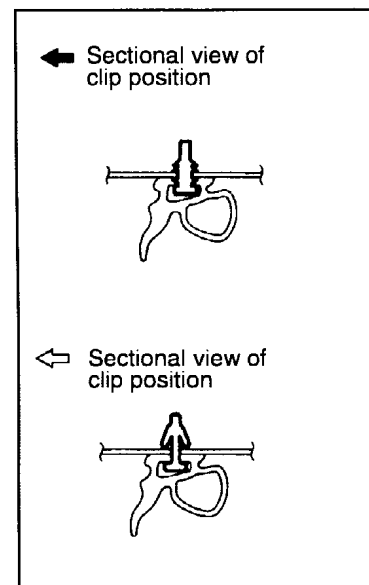
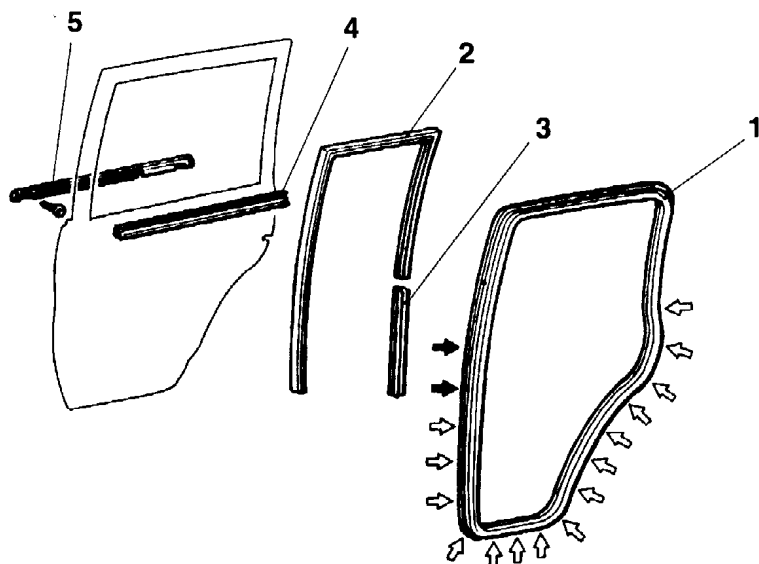
### Door window glass runchannel removal steps

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

### Door beltline moulding removal steps

- Outside rear view mirror
- 5. Door beltline moulding

<REAR DOOR>



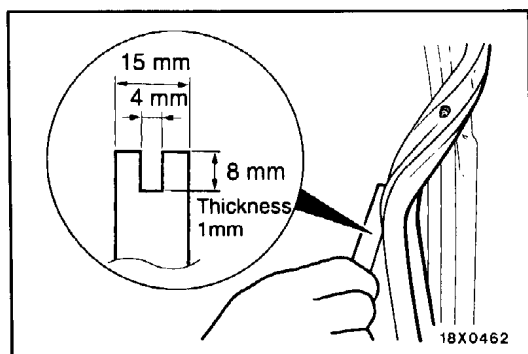
BX0061AL



1. Door outer opening weatherstrip
- Door window glass runchannel removal steps**
2. Door window glass runchannel
  - Door lower sash (Refer to P.42-13.)
  3. Door window glass lower runchannel

**Door beltline inner weatherstrip removal steps**

- Door trim (Refer to P.42-9.)
  - 4. Door beltline inner weatherstrip
- Door beltline moulding removal**
5. Door beltline moulding



**REMOVAL SERVICE POINT**

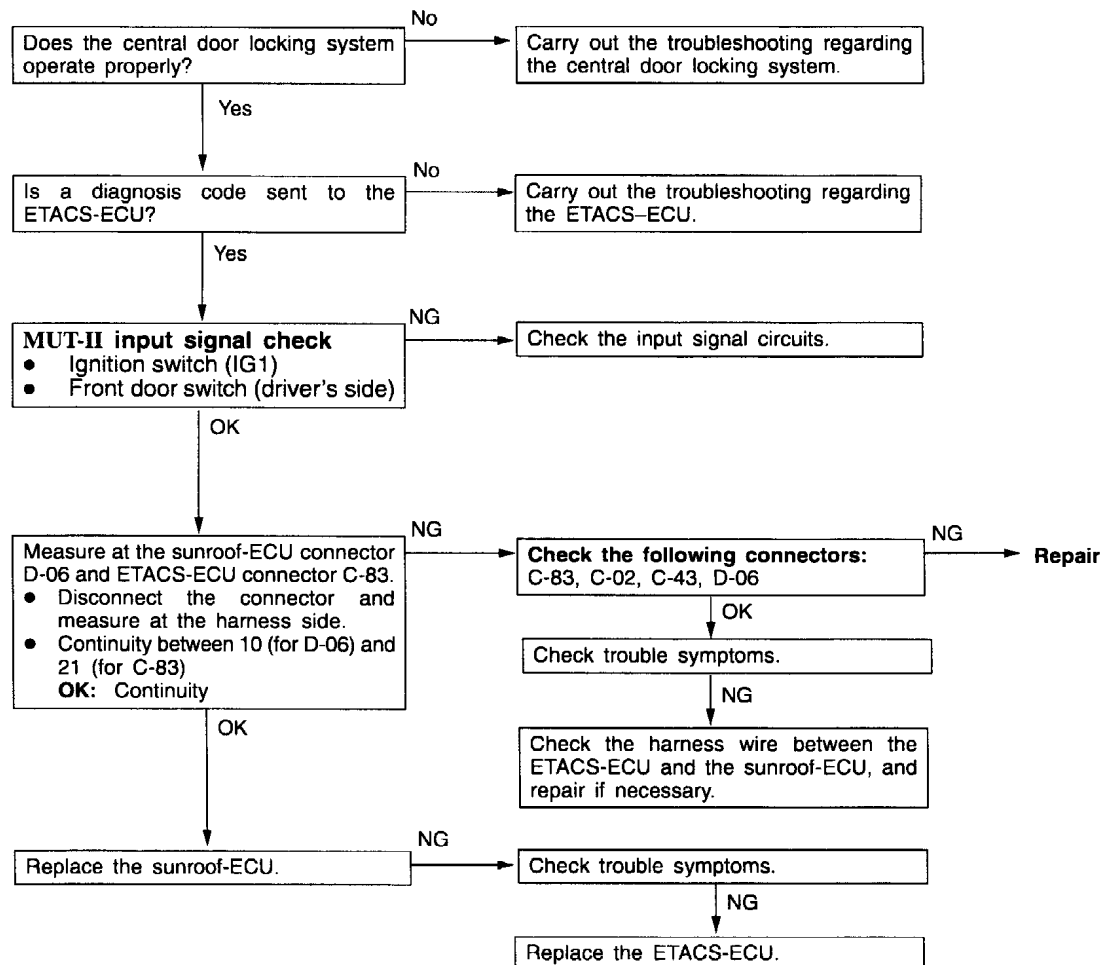
**◀A▶ DOOR OUTER OPENING WEATHERSTRIP REMOVAL**

Make a tool as shown and remove the door opening weatherstrip.

# SUNROOF

## TROUBLESHOOTING

|                                                                                                                                                                                                                                                                      |                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The timer does not operate for 30 seconds after the ignition switch is turned to LOCK (OFF) position. (When the ignition switch is turned on, the sunroof operates.)</b>                                                                                          | <b>Probable cause</b>                                                                                                                                                        |
| The sunroof-ECU has a timer function which operates during 30 seconds after the ignition switch is turned to LOCK (OFF) position. If the timer does not operate, the cause may be a malfunction of the ETACS-ECU, sunroof-ECU or of the wiring harness or connector. | <ul style="list-style-type: none"> <li>• Malfunction of wiring harness or connector</li> <li>• Malfunction of sunroof-ECU</li> <li>• Malfunction of the ETACS-ECU</li> </ul> |

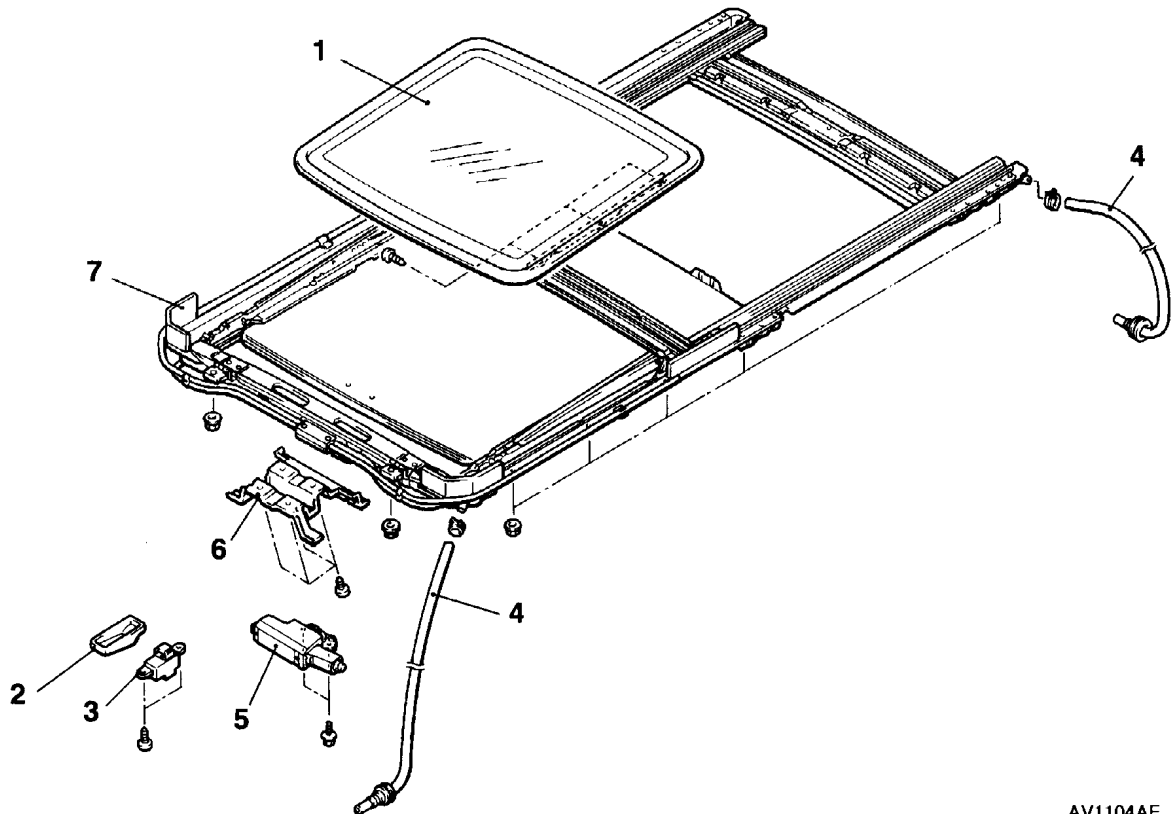


# SUNROOF

## REMOVAL AND INSTALLATION

### Post-installation Operation

- Sunroof Water Test
- Sunroof Fit Adjustment



AV1104AE

1. Roof lid glass assembly

### Sunroof switch removal steps

2. Sunroof switch cover
3. Sunroof switch

### Drain hose removal steps

- Headlining
- Splash shield (Rear drain hose)
- Cowl side trim and instrument lower panel
- Engine-ECU, throttle valve control relay and throttle valve controller (Driver's-side drain hose)

◀A▶ ▶A▶ 4. Drain hose

### Sunroof motor assembly removal steps

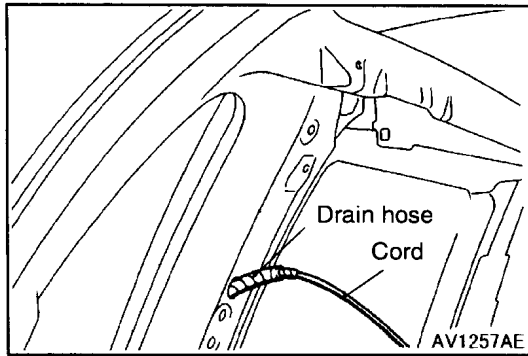
- Headlining
- 5. Sunroof motor assembly

◀B▶ ▶B▶

### Sunroof assembly removal steps

- Headlining
- 4. Drain hose
- 6. Room lamp bracket
- 7. Sunroof assembly

◀A▶ ▶A▶



## 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 from the passenger compartment.

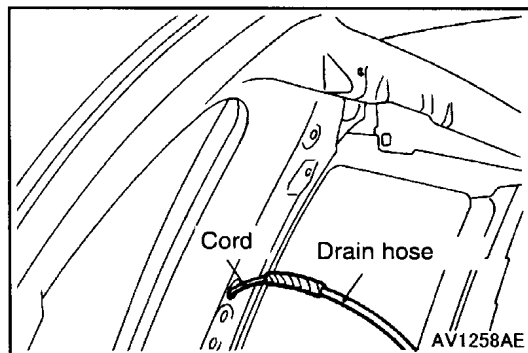
### ◀B▶ SUNROOF MOTOR ASSEMBLY REMOVAL

#### Caution

**Always close the roof lid glass fully before removing the sunroof motor. If the fully-closed positions of the roof lid glass and the sunroof motor are not the same, the sunroof will not operate properly.**

#### NOTE

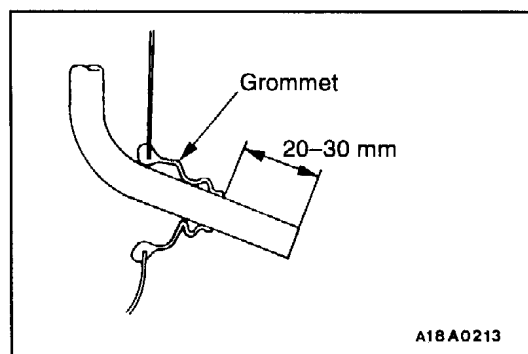
If there is a problem with the sunroof motor so that the roof lid glass cannot close fully, use an Allen key to turn the gear section of the sunroof motor to fully close the roof lid glass.



## 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 pull 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**

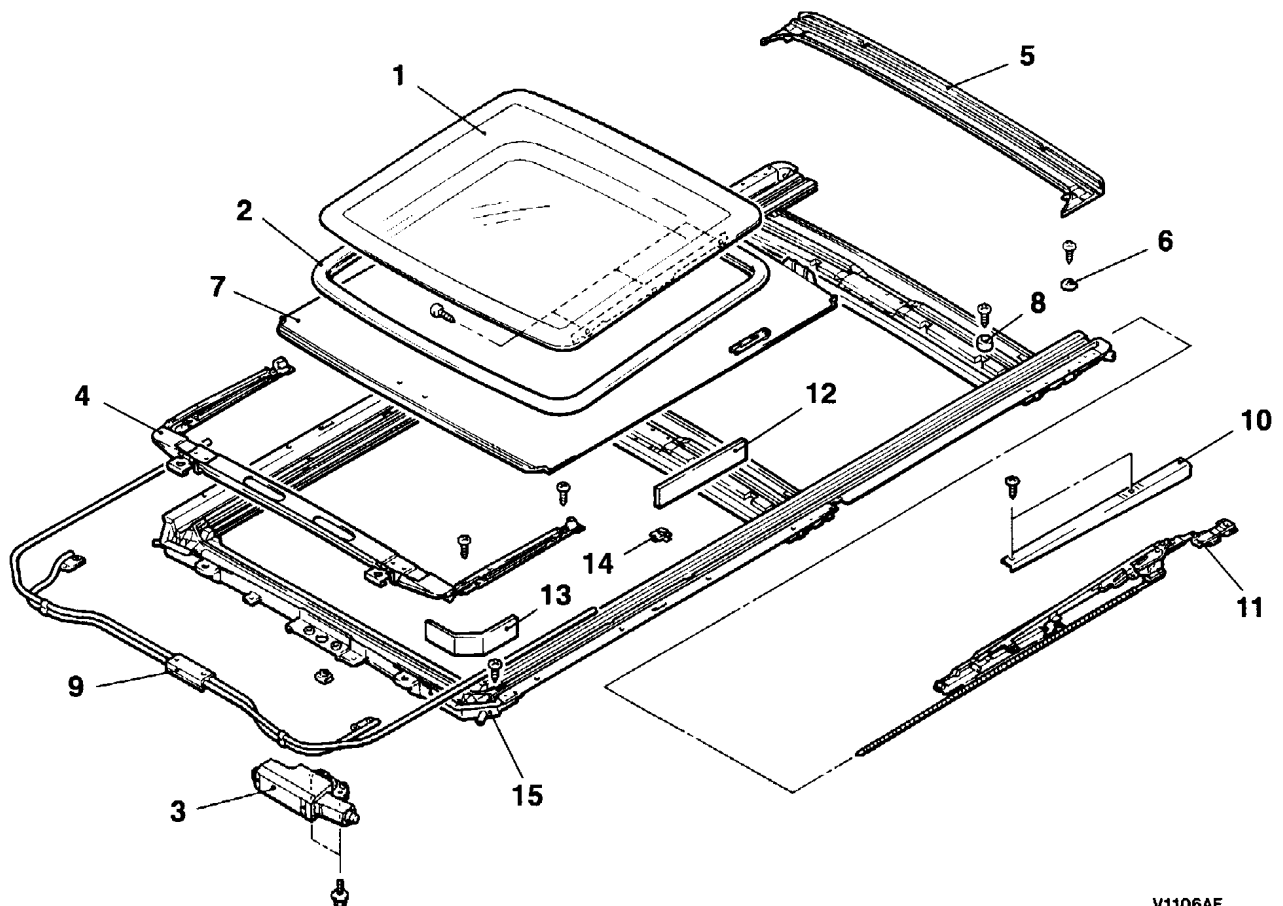
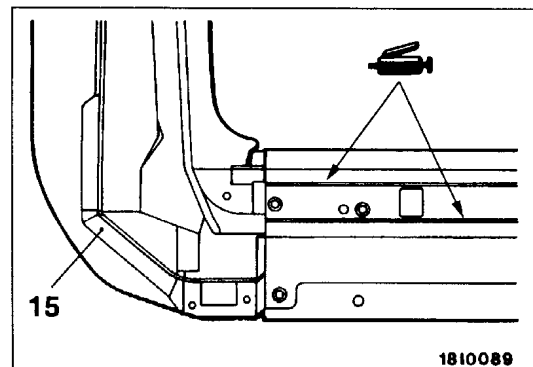
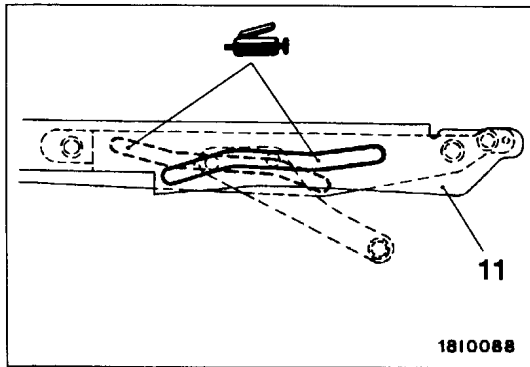
If the fully-closed position of the sunroof motor assembly is incorrect, set the sunroof motor to the fully-closed position by the following procedure, and then install the sunroof motor.

1. Remove the sunroof motor assembly with the connector still connected.
2. Set the roof lid glass to the fully-closed position.
3. Continue to push the sunroof close switch until the sunroof motor stops turning. Then install the sunroof motor assembly.

**NOTE**

Sunroof-ECU will initialize when the sunroof motor stops.

## DISASSEMBLY AND REASSEMBLY



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**Disassembly steps**

- |                              |                             |
|------------------------------|-----------------------------|
| 1. Roof lid glass assembly   | 9. Cable guide casing       |
| 2. Weatherstrip              | 10. Side deflector          |
| 3. Sunroof motor             | 11. Drive cable assembly    |
| 4. Roof wind deflector panel | 12. Seal                    |
| 5. Roof drip channel         | 13. Seal                    |
| 6. Panel stopper             | 14. Clamp                   |
| 7. Sunshade assembly         | 15. Guide rail sub assembly |
| 8. Guide rail stopper        |                             |