

# EXTERIOR

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5110900098

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### WARNINGS REGARDING SERVICING OF SUPPLEMENTAL RESTRAINT SYSTEM (SRS) EQUIPPED VEHICLES

#### WARNING!

- (1) Improper service or maintenance of any component of the SRS, or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag) or to the driver and passenger (from rendering the SRS inoperative).
- (2) Service or maintenance of any SRS component or SRS-related component must be performed only at an authorized MITSUBISHI dealer.
- (3) MITSUBISHI dealer personnel must thoroughly review this manual, and especially its GROUP 52B – Supplemental Restraint System (SRS) before beginning any service or maintenance of any component of the SRS or any SRS-related component.

#### NOTE

The SRS includes the following components: SRS-ECU, SRS warning lamp, air bag module, clock spring and interconnecting wiring. Other SRS-related components (that may have to be removed/installed in connection with SRS service or maintenance) are indicated in the table of contents by an asterisk (\*).

**SERVICE SPECIFICATIONS**

51100030089

| Items                                           |                  | Standard value |
|-------------------------------------------------|------------------|----------------|
| Windshield wiper blade installation position mm | Passenger's side | 52.5±5         |
|                                                 | Driver's side    | 19.5±5         |
| Rear wiper blade installation position mm       |                  | 117±5          |

**SEALANT AND ADHESIVE**

51100050085

| Items                      | Specified sealant and adhesive                  |
|----------------------------|-------------------------------------------------|
| Door garnish, side garnish | Double-sided tape [4 mm wide and 1.5 mm thick]  |
|                            | 3M ATD Part No. 8608 Super Fast Urethane Primer |
| Rear spoiler               | Double-sided tape [4 mm wide and 1.5 mm thick]  |

**SPECIAL TOOL**

51100060064

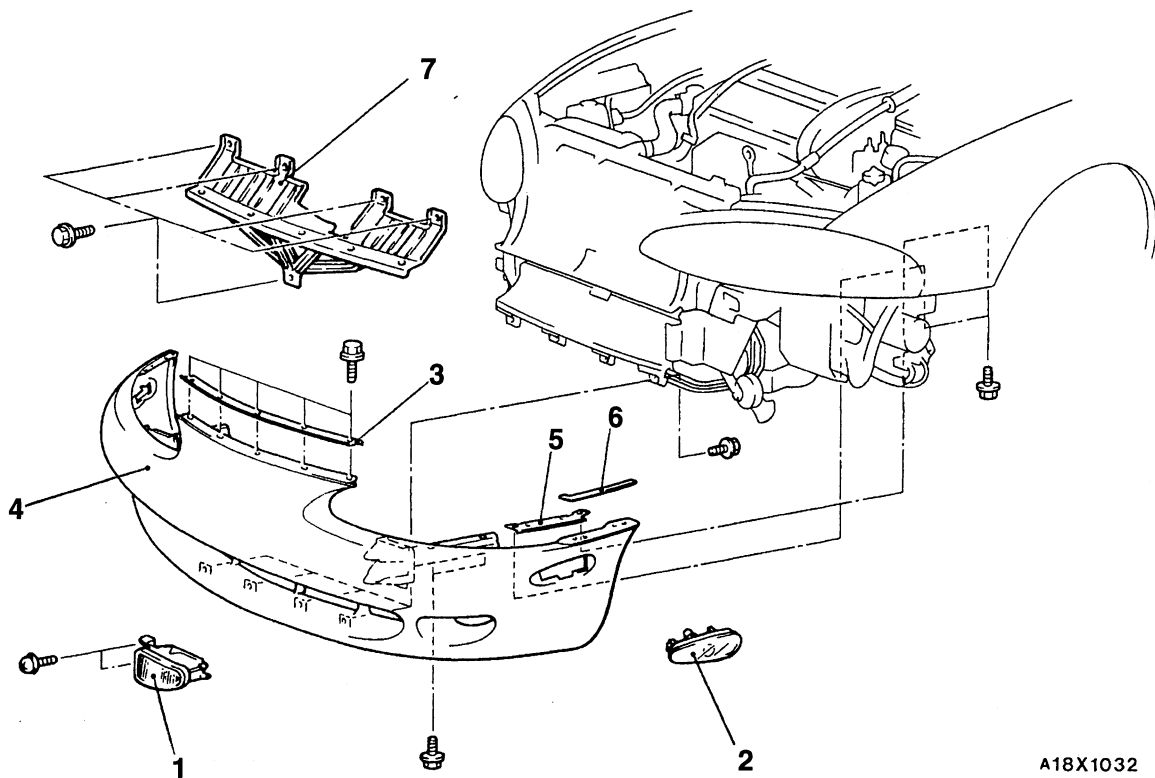
| Tool                                                                               | Number   | Name             | Use                                                                  |
|------------------------------------------------------------------------------------|----------|------------------|----------------------------------------------------------------------|
|  | MB990784 | Ornament remover | Removal of rear wiper and washer switch, door mirror control switch. |

**FRONT BUMPER**

51100140089

**REMOVAL AND INSTALLATION**

**Pre-removal and Post-installation Operation**  
Splash Shield Removal and Installation



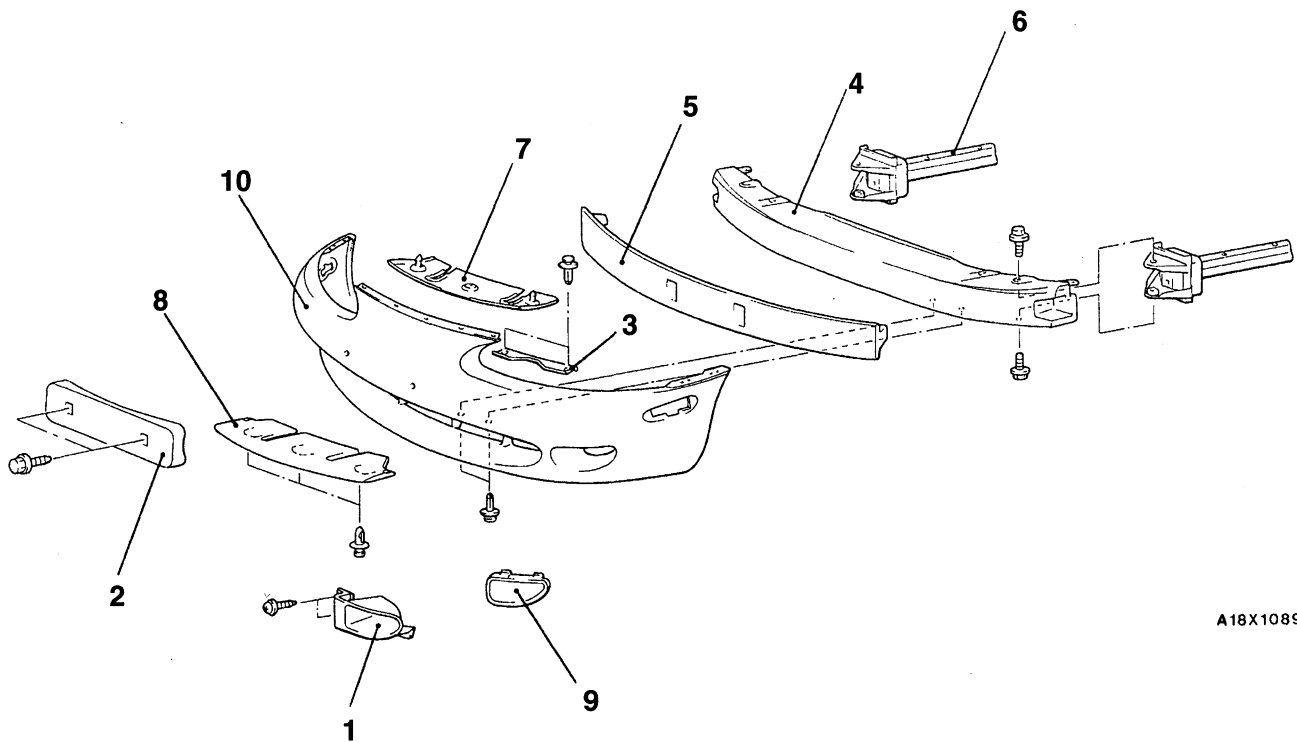
A18X1032

**Removal steps**

1. Fog lamp
2. Reflector
3. Front bumper center plate
4. Front bumper assembly
5. Front bumper corner plate
6. Pad
7. Front fascia bracket

## DISASSEMBLY AND REASSEMBLY

51100160092



A18X1089

**Disassembly steps**

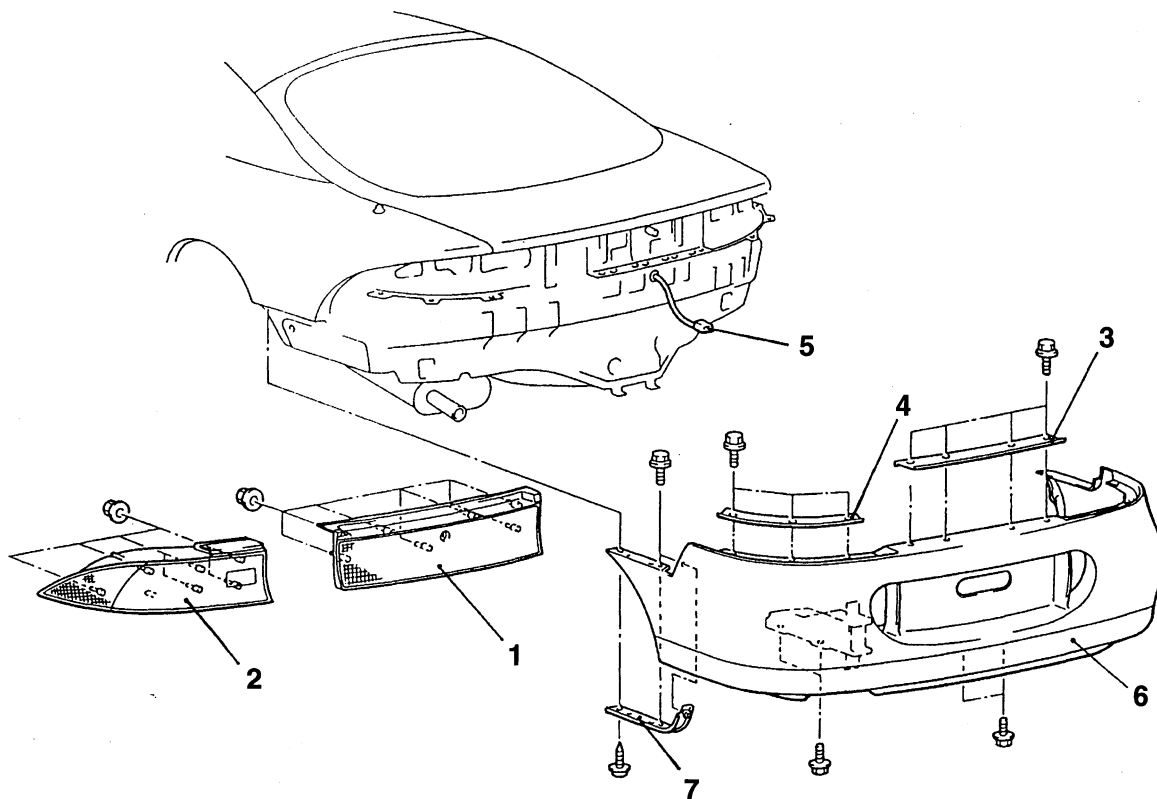
1. Fog lamp hole cover
2. Front licence plate garnish
3. Front bumper side plate
4. Front bumper reinforcement
5. Front bumper core
6. Front bumper stay assembly
7. Front fascia air guide lower panel
8. Front fascia air guide upper panel
9. Air intake cover
10. Front bumper face

**REAR BUMPER**

51100190107

**REMOVAL AND INSTALLATION**

**Pre-removal and Post-installation Operation**  
Rear End Trim and Rear Side Trim Removal and Installation (Refer to GROUP 52A.)



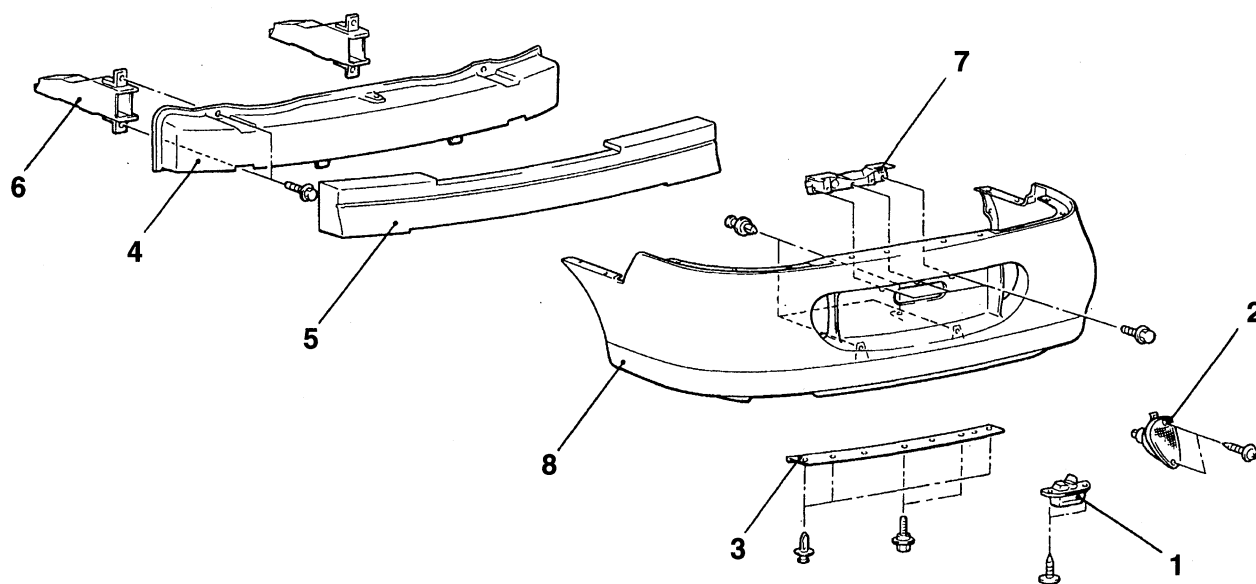
A18X0662

**Removal steps**

1. Rear panel garnish
2. Rear combination lamp
3. Rear bumper upper plate (A)
4. Rear bumper upper plate (B)
5. Connector harness
6. Rear bumper assembly
7. Rear bumper side plate

## DISASSEMBLY AND REASSEMBLY

51100210087



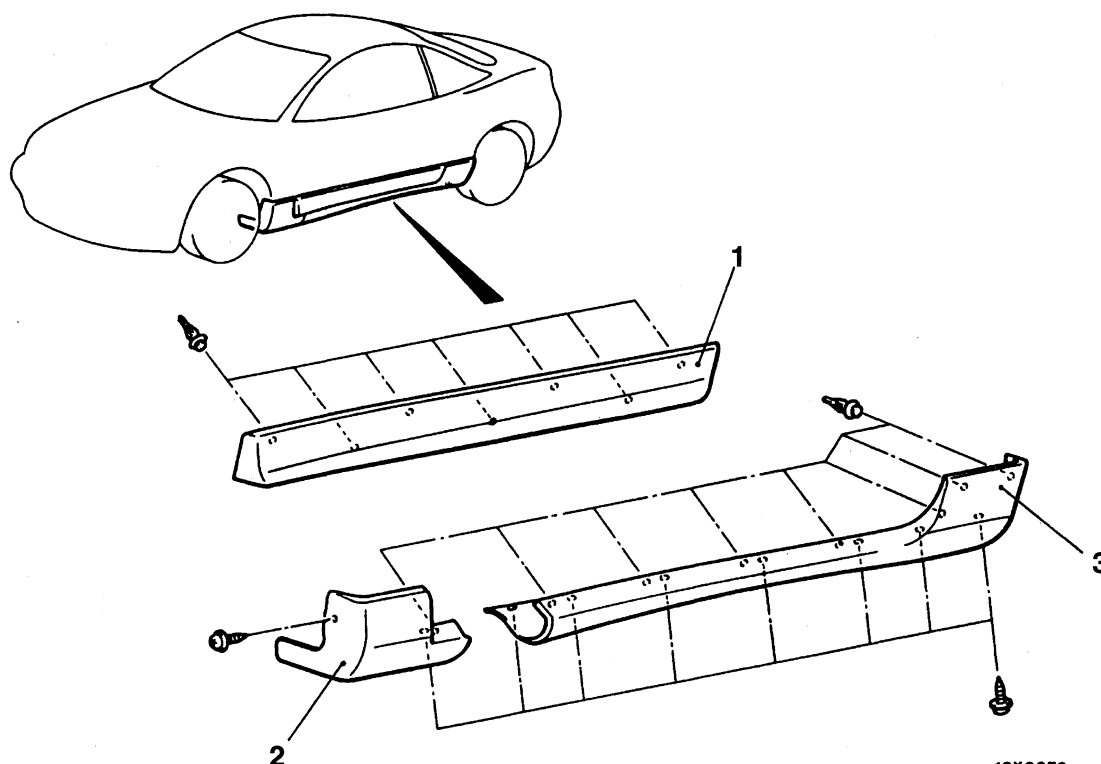
A18X1008

**Disassembly steps**

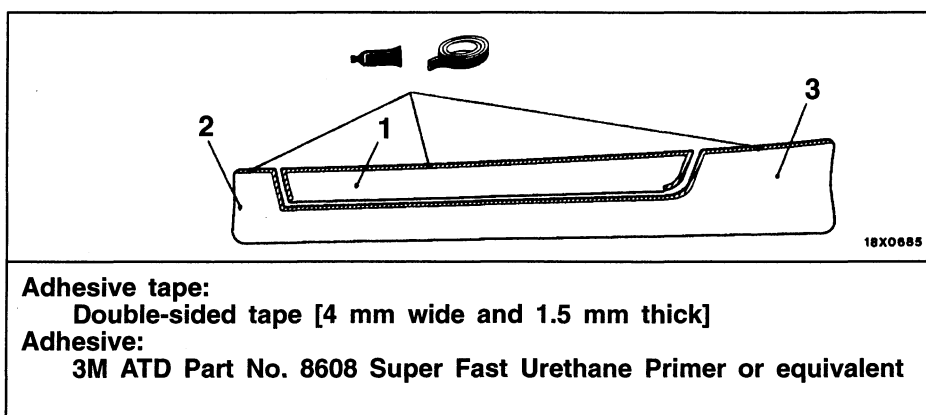
1. Licence plate lamp
2. Back-up lamp
3. Rear bumper lower plate
4. Rear bumper reinforcement
5. Rear bumper core
6. Rear bumper stay assembly
7. Licence lamp bracket
8. Rear bumper face

**AERO PARTS**

51100500078

**REMOVAL AND INSTALLATION**

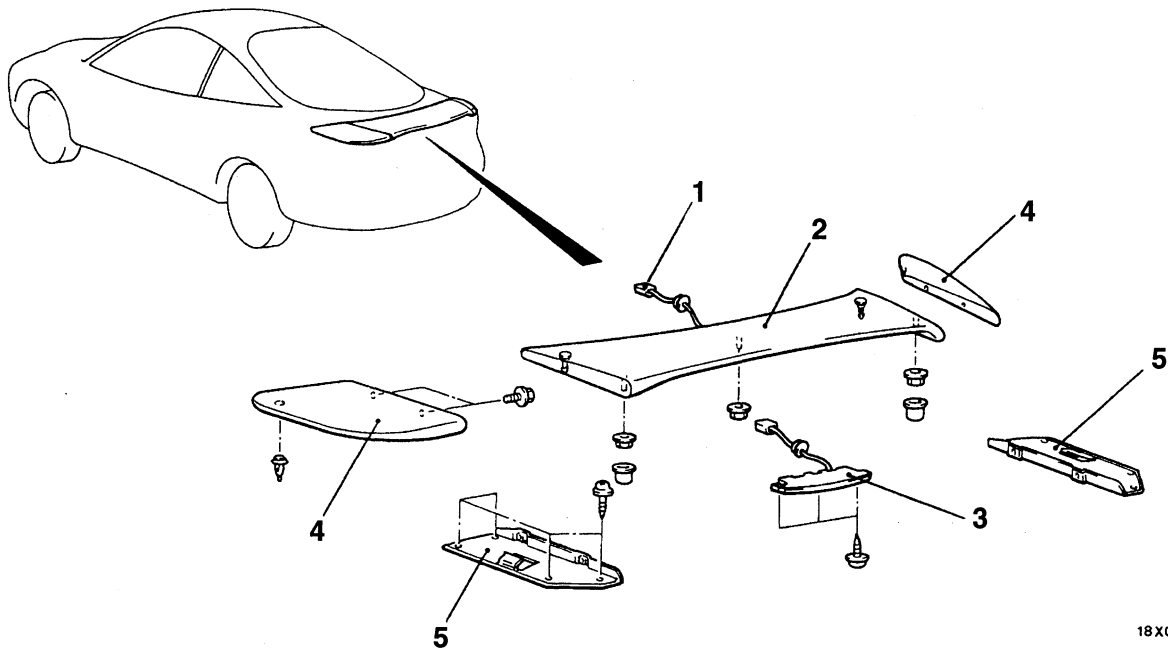
18X0673  
00003750

**Door garnish removal**

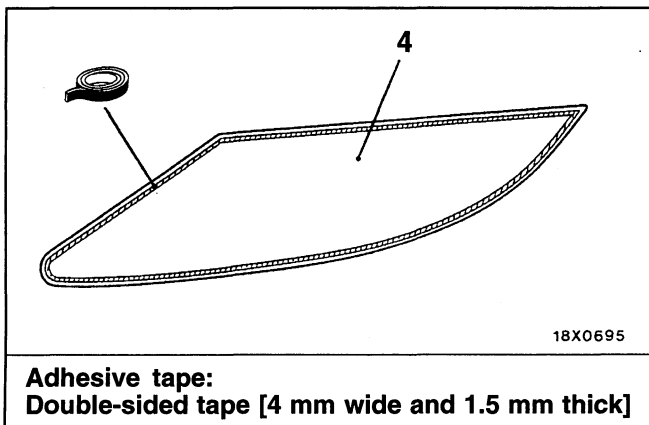
1. Door garnish

**Side garnish removal steps**

2. Front side garnish  
3. Rear side garnish



18X0674



00004423

**Adhesive tape:**  
**Double-sided tape [4 mm wide and 1.5 mm thick]**

#### Rear spoiler removal steps

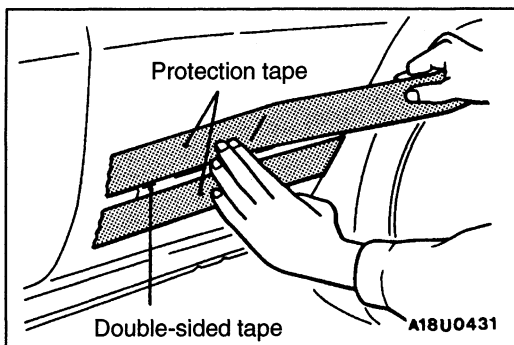
- Tailgate lower trim  
 (Refer to GROUP 52A)
- 1. Harness connector
- 2. Rear center spoiler assembly
- 3. High-mounted stop lamp
- 4. Rear side spoiler
- 5. Bracket

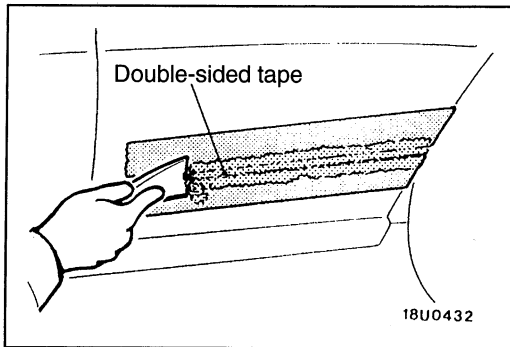


#### REMOVAL SERVICE POINT

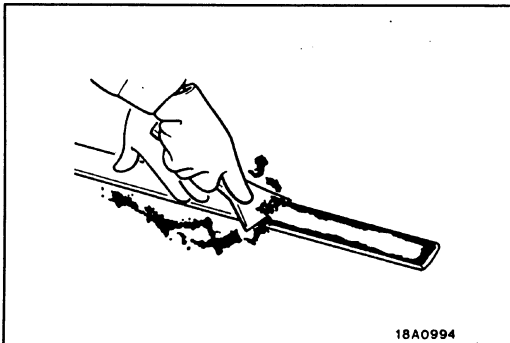
##### ◀A▶ DOOR GARNISH/Front SIDE GARNISH/REAR SIDE GARNISH/REAR SIDE SPOILER REMOVAL

- (1) Attach protection tape all the way along the edges of the double-sided tape which is still adhering to the body.





- (2) Use a resin spatula to scrape off the double-sided tape.
- (3) Peel off the protection tape.
- (4) Wipe the body surface and clean it with a rag moistened with isopropyl alcohol.



## INSTALLATION SERVICE POINT

### ►A◄ DOOR GARNISH/FRONT SIDE GARNISH/REAR SIDE GARNISH/REAR SIDE SPOILER INSTALLATION

**Double-sided tape affixing to the door garnish/side garnish/rear spoiler (when reusing)**

- (1) Scrape off the double-sided tape with a resin spatula or gasket scraper.
- (2) Wipe the garnish or rear spoiler adhesion surface and clean it with a rag moistened with isopropyl alcohol.
- (3) Apply the specified primer to the place where the double-sided tape is attached to.

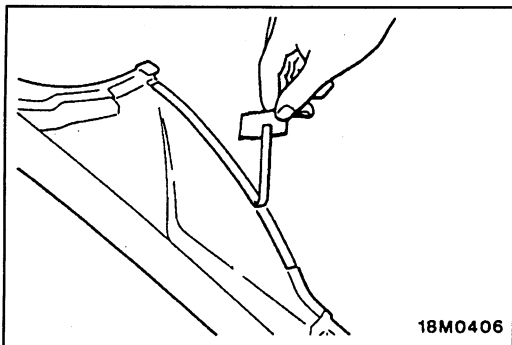
#### **Specified primer:**

**3M ATD Part No. 8608 Super Fast Urethane Primer or equivalent**

- (4) After applying the primer, let it dry for 3 to 30 minutes.
- (5) Affix specified pressure sensitive double-sided tape to the garnish or rear spoiler.

#### **Specified adhesive tape:**

**Double-sided tape [4 mm wide and 1.5 mm thick]**



- (6) Remove strip paper from the pressure sensitive double-sided tape.

#### **NOTE**

Affix double-sided tape to the end of strip paper for ease of strip paper removal.

- (7) Install the garnish or rear spoiler.

#### **NOTE**

If it is hard to affix the pressure sensitive double-sided tape in winter, heat the application surface of the body and the adhesive surface of the garnish or rear spoiler before affixing the tape.

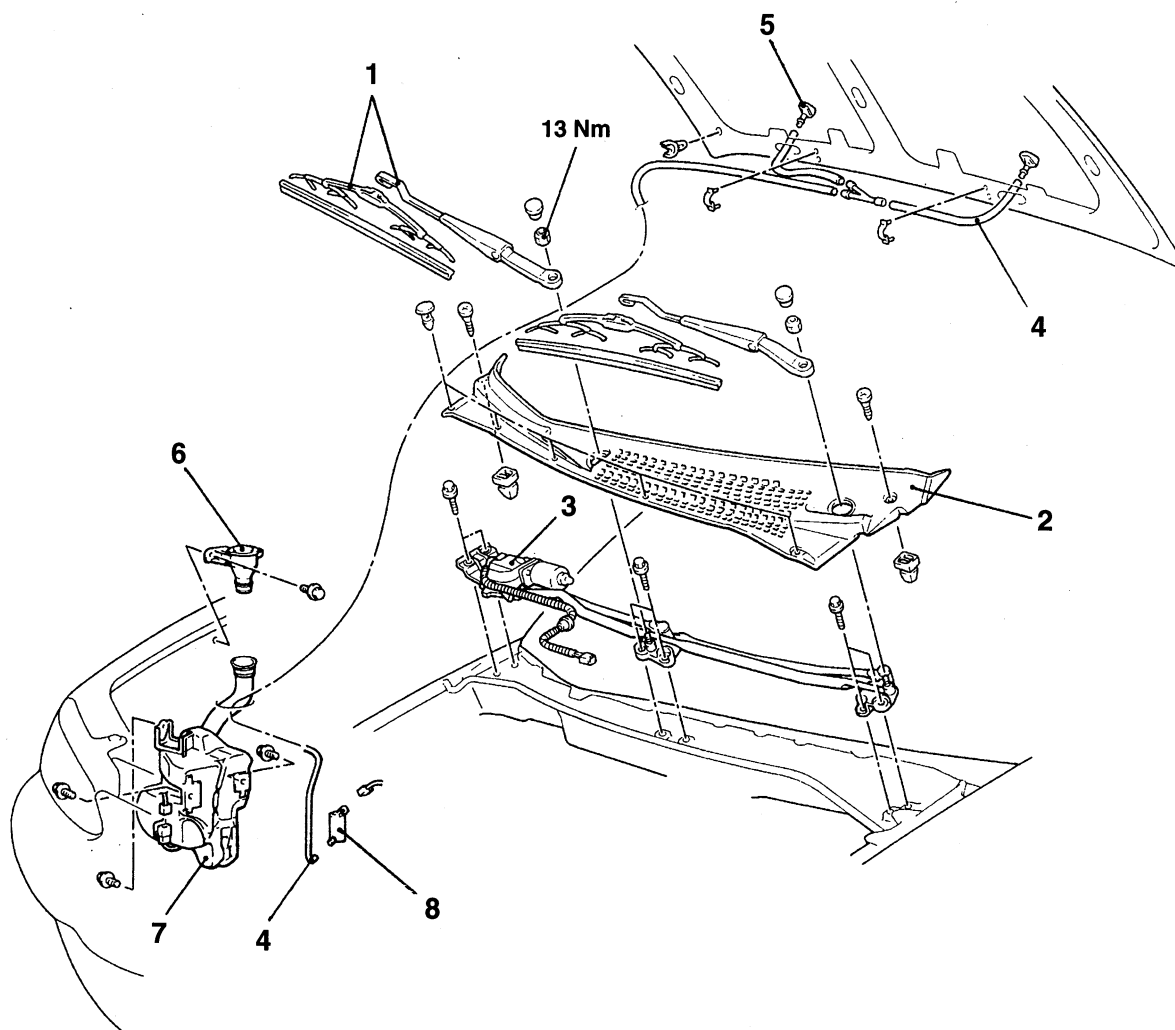
Body ..... 40–60°C

Garnish or rear spoiler ..... 20–30°C

Apply pressure fully to the garnish or rear spoiler.

**WINDSHIELD WIPER AND WASHER**

51100760100

**REMOVAL AND INSTALLATION**

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**Wiper motor and link assembly removal steps**

1. Wiper arm and blade assembly
2. Front deck garnish
3. Wiper motor and link assembly

**Washer nozzle and washer hose removal steps**

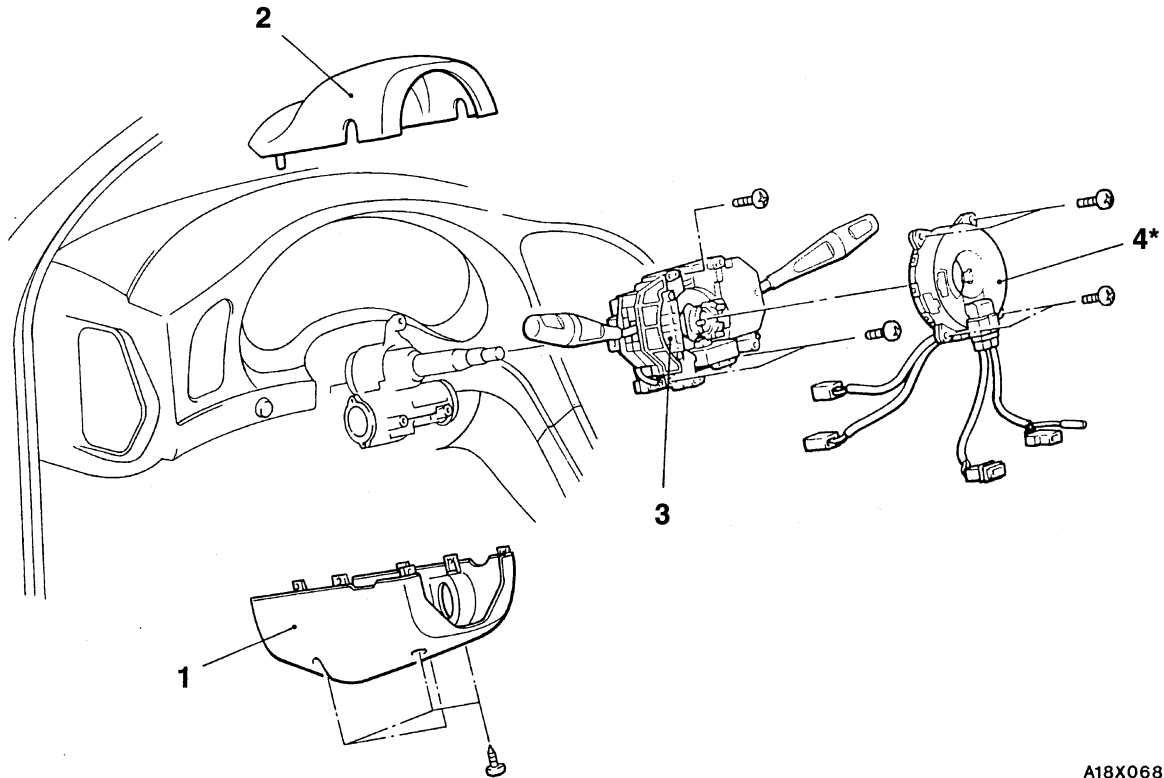
4. Washer hose connection
5. Washer nozzle

**Washer tank removal steps**

- Front splash shield (R.H.)
- 6. Washer tank cap
- 7. Washer tank
- 8. Washer motor

**CAUTION: SRS**

Before removal of air bag module and clock spring, refer to GROUP 52B – SRS Service Precautions, Air Bag Module and Clock Spring.



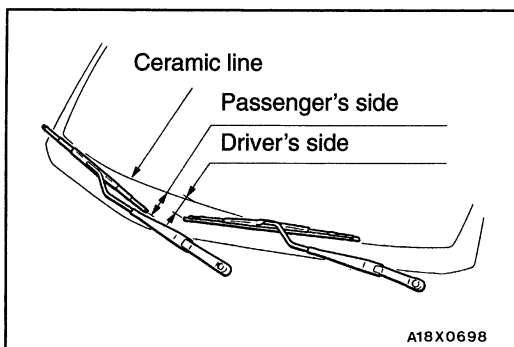
A18X0683

**Column switch removal steps**

- Air bag module (Refer to GROUP 52B)
- Steering wheel (Refer to GROUP 37A)
- 1. Column cover, lower
- 2. Column cover, upper
- 3. Column switch assembly (with built-in wiper and washer switch, and wiper relay)
- 4. Clock spring\* (Refer to GROUP 52B)

**NOTE**

Do not remove parts marked with\* from the column switch except when removal is absolutely necessary.



A18X0698

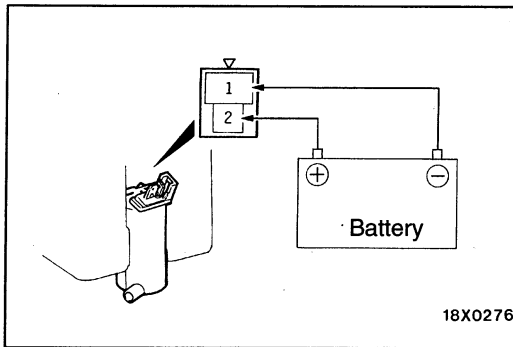
**INSTALLATION SERVICE POINT****►A◄ WIPER ARM AND BLADE ASSEMBLY INSTALLATION**

Adjust the wiper and blade assembly so that the clearances between the wiper blade edges and the ceramic line are at the standard value.

**Standard value**

Passenger's side:  $52.5 \pm 5$  mm

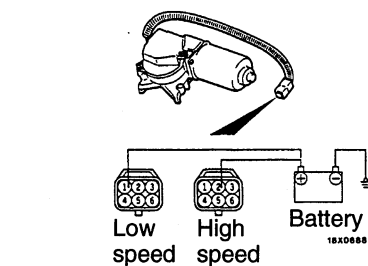
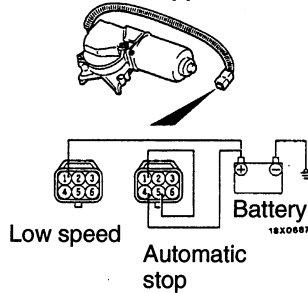
Driver's side:  $19.5 \pm 5$  mm

**INSPECTION**

51101270039

**WASHER MOTOR**

- (1) With the washer motor installed to the washer tank, fill the washer tank with water.
- (2) When the battery is connected as shown in the figure, check that the water squirts out strongly.

**Inspection while operating****Inspection while stopped****WIPER MOTOR**

51101260036

Do not remove the motor and link assembly when checking.

**Wiper Motor at Low Speed and High Speed Operation**

Connect a battery to the wiper motor as shown in the illustration and inspect motor operation at low speed and high speed.

**Wiper Motor at Stop Position Operation**

- (1) Run the wiper motor at low speed, disconnect the battery, and stop the motor.
- (2) Reconnect the battery as shown in the illustration, and confirm that after the motor starts turning at low speed, it stops at the automatic stop position.

**COLUMN SWITCH**

51100770073

**Wiper and Washer Switch Continuity Check**

| Switch position |        | Terminal No. |   |   |   |   |
|-----------------|--------|--------------|---|---|---|---|
|                 |        | 5            | 6 | 7 | 8 | 9 |
| Wiper switch    | OFF    |              | ○ | ○ |   |   |
|                 | 1 (LO) |              |   | ○ |   | ○ |
|                 | 2 (HI) |              |   |   | ○ | ○ |
| Washer switch   | ON     | ○            |   |   |   | ○ |

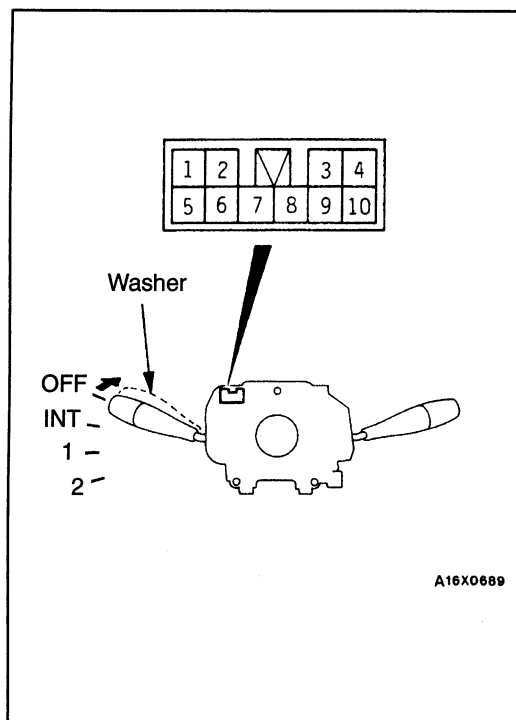
**Intermittent Wiper Relay (Intermittent Operation Inspection)**

- (1) Connect the column switch connector.
- (2) Turn the ignition switch to ACC.
- (3) Check the intermittent operation time when the wiper switch is turned to INT.

**Variable intermittent control**

**FAST:** Approx. 3 seconds

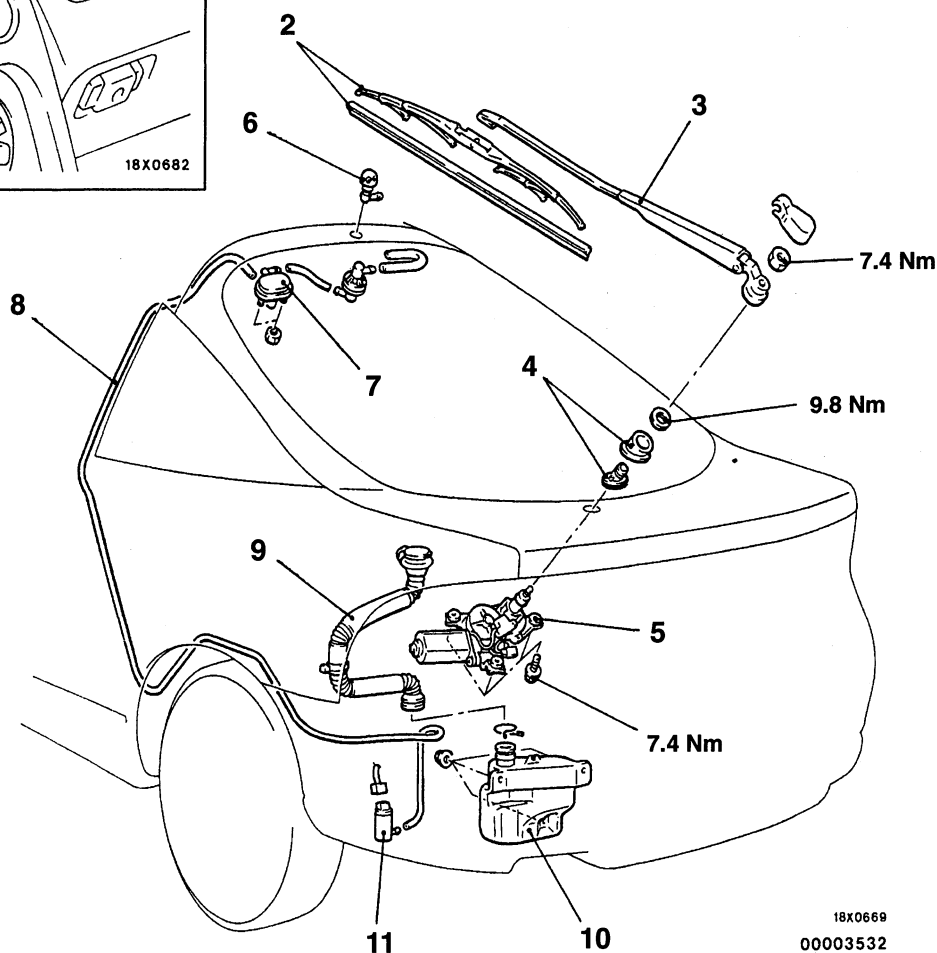
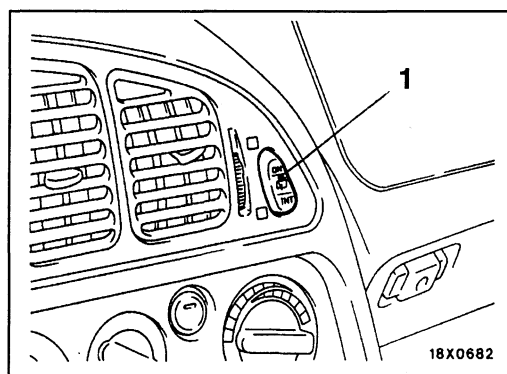
**SLOW:** Approx. 12 seconds



## REAR WIPER AND WASHER

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## REMOVAL AND INSTALLATION

**Wiper and washer switch removal steps**

- Center air outlet assembly (Refer to GROUP 52A – Instrument Panel.)

1. Wiper and washer switch

**Wiper motor removal steps**

2. Wiper blade

3. Wiper arm

4. Spacer assembly

- Tailgate lower trim (Refer to GROUP 52A – Trims.)

5. Wiper motor

**Washer tank and hose removal steps**

- Quarter upper trim (L.H.), quarter lower trim (L.H.), rear end trim, rear side trim, tailgate upper trim (Refer to GROUP 52A – Trims.)

6. Washer nozzle

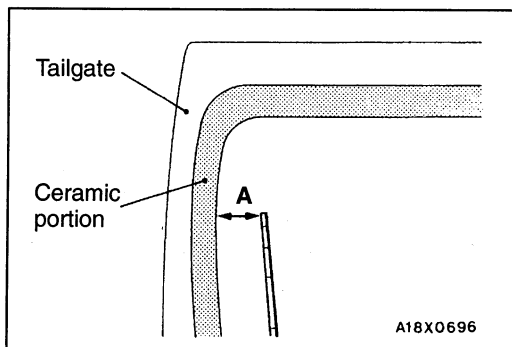
7. Joint assembly

8. Tube assembly

9. Hose assembly

10. Washer tank

11. Washer motor

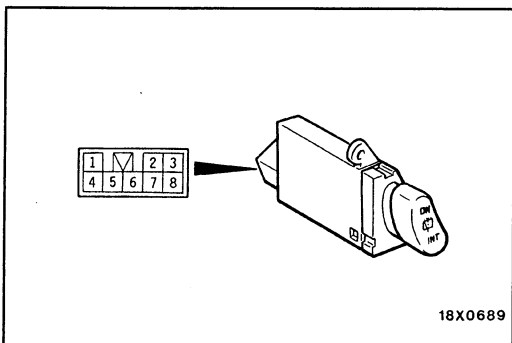


## INSTALLATION SERVICE POINT

### ►A◄ WIPER ARM/WIPER BLADE INSTALLATION

Adjust the wiper arm so that the clearance between the wiper blade edge and the ceramic portion is at the standard value.

**Standard value (A):  $117 \pm 5$  mm**

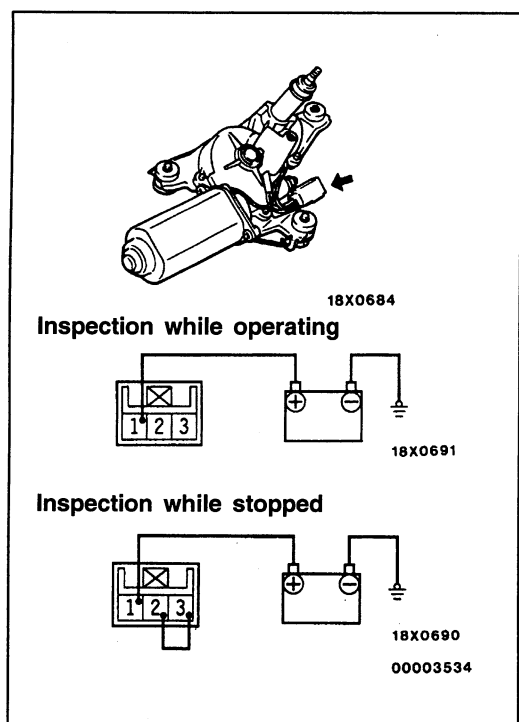


## INSPECTION

51100950040

### REAR WIPER AND WASHER SWITCH CONTINUITY CHECK

| Switch position |     | Terminal No. |     |     |   |     |     |   |
|-----------------|-----|--------------|-----|-----|---|-----|-----|---|
|                 |     | 3            | 7   | 5   | 6 | 8   | 1   | 4 |
| Wiper switch    | OFF |              |     | ○—○ |   |     | ILL |   |
|                 | INT | ○—○          | ○—○ | ○—○ |   |     |     |   |
|                 | LO  |              | ○—○ | ○—○ |   |     |     |   |
| Washer switch   | OFF |              |     |     |   |     |     |   |
|                 | ON  |              | ○—○ |     |   | ○—○ |     |   |



## WIPER MOTOR

51101290035

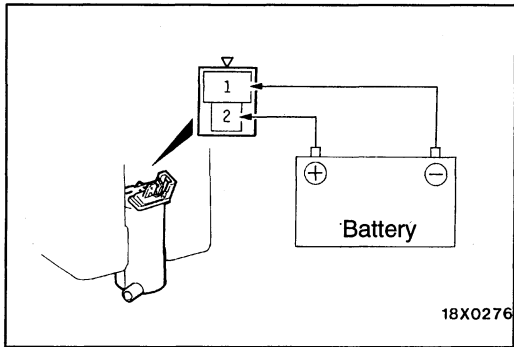
Do not remove the wiper motor when checking.

### Wiper Motor at Low Speed and High Speed Operation

Connect a battery to the wiper motor as shown in the illustration and check motor operation at low speed and high speed.

### Wiper Motor at Stop Position Operation

- (1) Run the wiper motor at low speed, disconnect the battery, and stop the motor.
- (2) Reconnect the battery as shown in the illustration, and confirm that after the motor starts turning at low speed, it stops at the automatic stop position.

**WASHER MOTOR**

51101310038

- (1) With the washer motor installed to the washer tank, fill the washer tank with water.
- (2) When the battery is connected as shown in the figure, check that the water squirts out strongly.

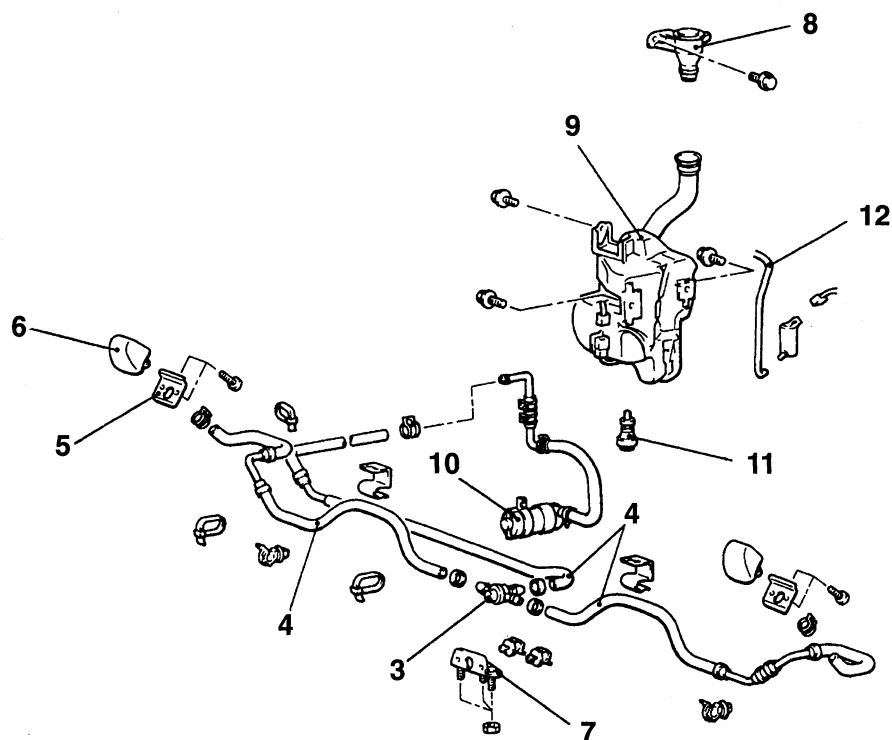
## HEADLAMP WASHER

51100970053

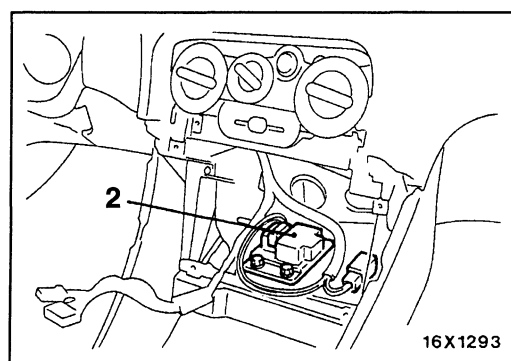
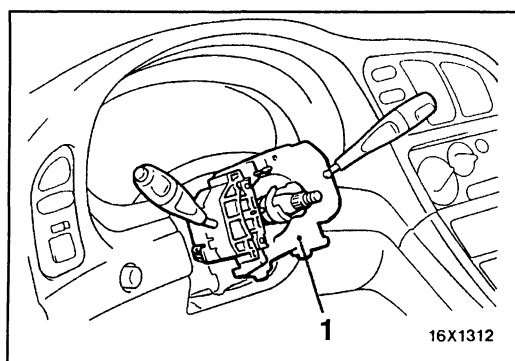
## REMOVAL AND INSTALLATION

**CAUTION: SRS**

Before removal of air bag module and clock spring, refer to GROUP 52B – SRS Service Precautions and Air Bag Module and Clock Spring.



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00004418



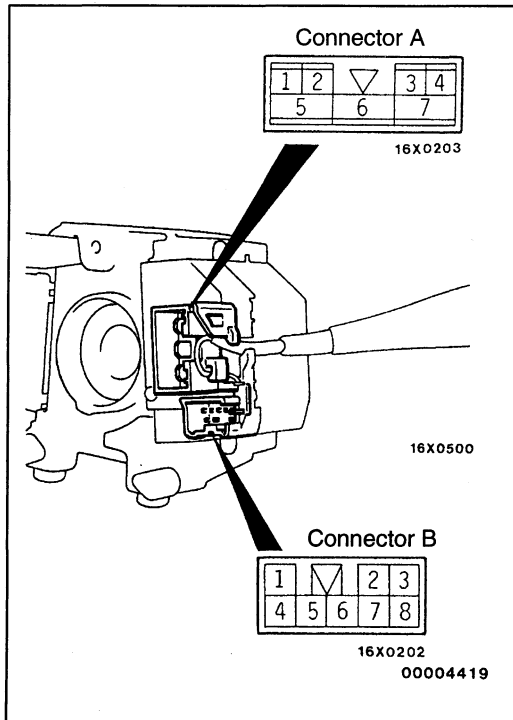
1. Column switch assembly  
(With built-in headlamp washer switch) (Refer to GROUP 37A)
2. Headlamp washer relay

**Nozzle and check valve removal steps**

- Draining of washer fluid
- Front bumper (Refer to P.51-3)
- 3. Check valve
- 4. Washer hose assembly
- 5. Bracket
- 6. Nozzle
- 7. Plate

**Washer tank removal steps**

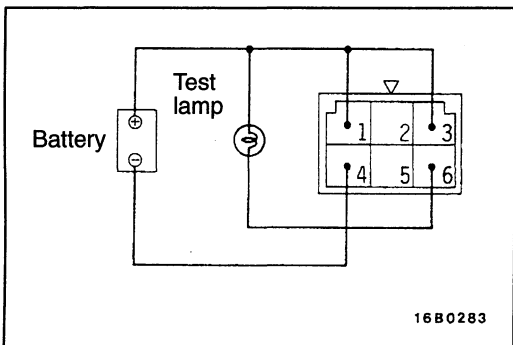
- Draining of washer fluid
- Front splash shield (R.H.)
- 8. Washer tank cap
- 9. Washer tank
- 10. Headlamp washer motor
- 11. Washer fluid level switch
- 12. Washer hose

**INSPECTION**

51100980056

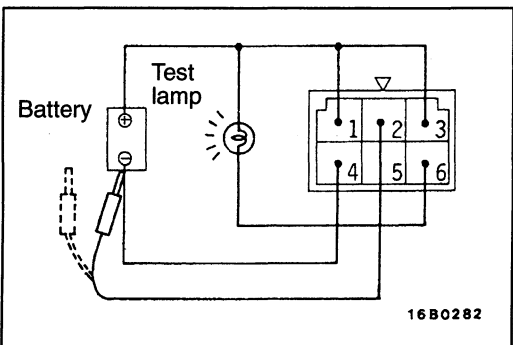
**HEADLAMP WASHER SWITCH CHECK**

| Switch position |     | Connector A<br>Terminal No. 2 | Connector B<br>Terminal No. 6 |
|-----------------|-----|-------------------------------|-------------------------------|
| Washer switch   | OFF |                               |                               |
|                 | ON  | ○                             | ○                             |

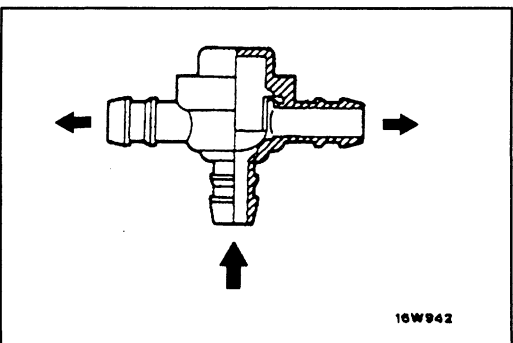
**HEADLAMP WASHER RELAY CHECK**

51101320024

(1) Connect battery and test lamp to the relay as illustrated.



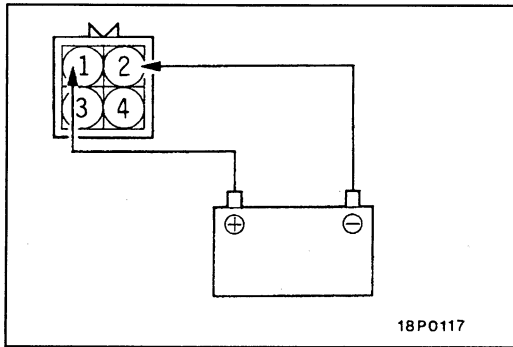
(2) The relay is normal if the lamp lights for approximately 0.5 second upon connection of terminal (2) to battery (-).

**CHECK VALVE CHECK**

51101330027

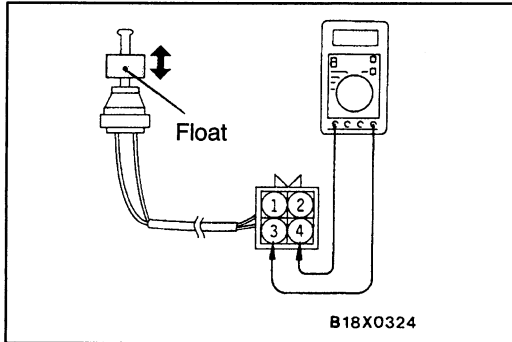
Apply pressure to the inlet of the check valve to check its opening pressure.

**Opening pressure: 78 kPa**

**HEADLAMP WASHER MOTOR CHECK**

51101340020

- (1) With the washer motor installed to the washer tank, fill the washer tank with water.
- (2) Connect battery (+) and (-) cables to terminals (1) and (2) respectively to see that the washer motor runs and water is injected.

**WASHER FLUID LEVEL SWITCH CHECK**

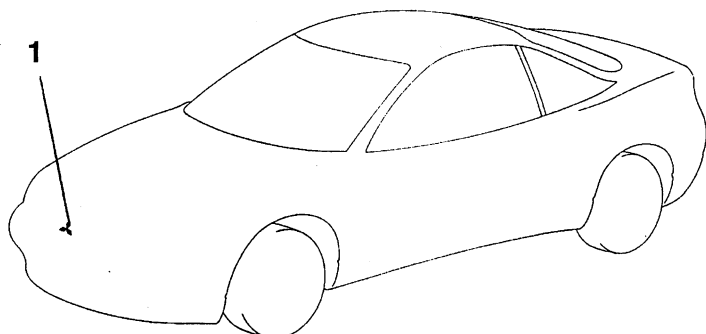
51101280025

- (1) Remove the washer fluid level switch from the washer tank.
- (2) Connect a circuit tester to the connector of washer fluid level switch.
- (3) Move the float up and down.
- (4) Check to be sure that there is continuity between the terminals when the float is down.

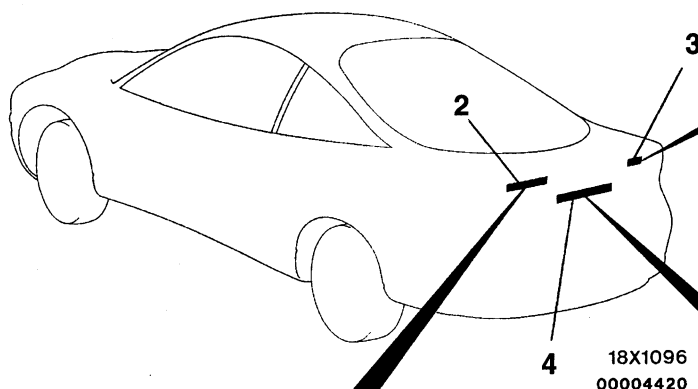
## MARKS

51101180028

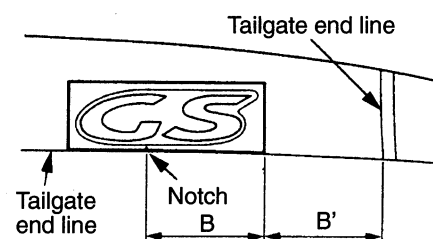
## REMOVAL AND INSTALLATION



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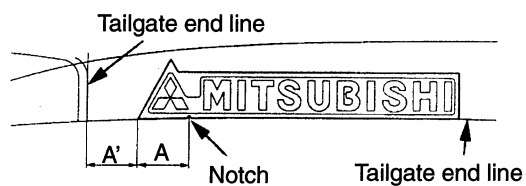
18X1096  
00004420

## GRADE MARK



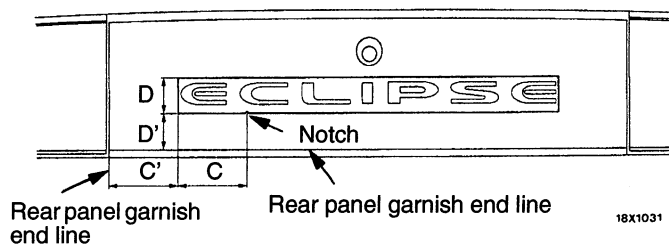
18X1097

## MITSUBISHI MARK



18X1030

## ECLIPSE MARK



18X1031



1. THREE DIA MARK
2. MITSUBISHI MARK
3. GRADE MARK
4. ECLIPSE MARK

**INSTALLATION SERVICE POINT****◀A▶ MARK INSTALLATION**

- (1) Installation location  
Each dimension from the edge to the notch is equal to each installation dimension. (i.e.  $A=A'$ ,  $B=B'$ ,  $C=C'$ ,  $D=D'$ )
- (2) Installation procedure
  - 1) Clean the mark installation surfaces on the body with unleaded petrol.
  - 2) Peel off the backing paper from the reverse side of the marks, and then attach the marks to the vehicle body so that they fit properly into position.

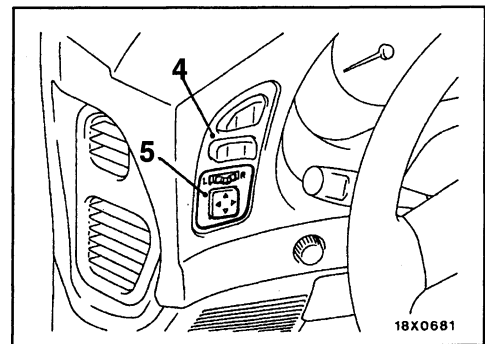
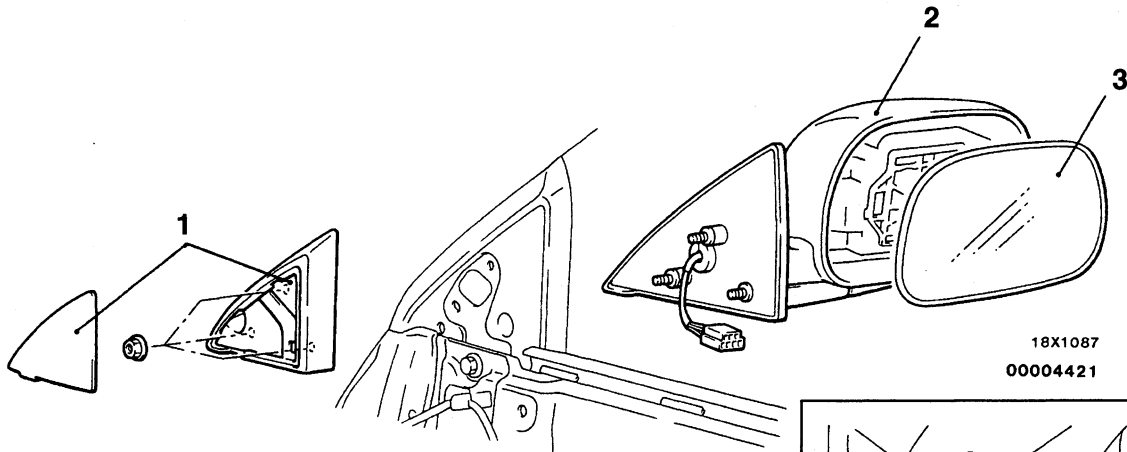
**Caution**

**When attaching the marks, the surrounding temperature should be 20–38°C and the air should be completely free from dust.**

**If the surrounding temperature is lower than 20°C, the marks and the places on the body where the marks are to be attached should be heated to 20–38°C.**

**DOOR MIRROR**

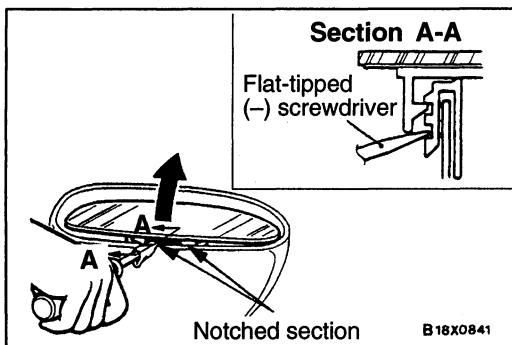
51100670076

**REMOVAL AND INSTALLATION****Door mirror removal steps**

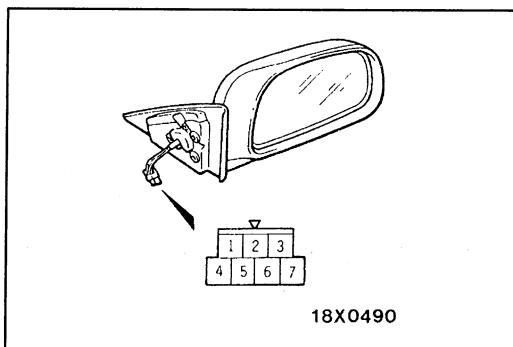
- Door trim  
(Refer to GROUP 42)
- 1. Delta cover inner
- 2. Door mirror
- 3. Mirror

**Door mirror control switch removal steps**

- 4. Instrument panel switch assembly
- 5. Door mirror control switch

**REMOVAL SERVICE POINT****◀A▶ MIRROR REMOVAL**

Turn the mirror by hand so that it faces upwards, insert the flat-tipped (–) screwdriver wound with masking tape into the notched section, and lever out the mirror to remove it.

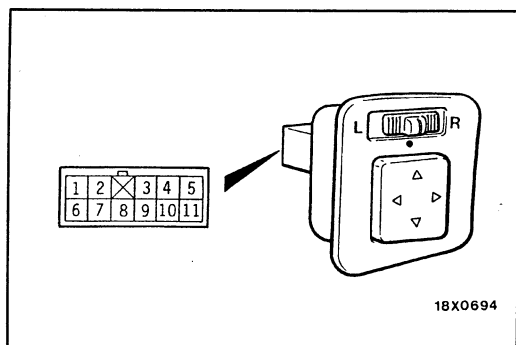
**INSPECTION**

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**REMOTE CONTROL MIRROR ASSEMBLY CHECK**

Check that the mirror moves as described in the table when each terminal is connected to the battery.

| Battery connection terminal |   |   | Direction of operation |
|-----------------------------|---|---|------------------------|
| 5                           | 6 | 7 |                        |
| ⊖                           |   | ⊕ | UP                     |
| ⊕                           |   | ⊖ | DOWN                   |
| ⊕                           | ⊖ |   | LEFT                   |
| ⊖                           | ⊕ |   | RIGHT                  |

**DOOR MIRROR CONTROL SWITCH CONTINUITY CHECK**

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| Direction of operation | Selector switch position | Terminal No. |   |   |   |   |    |    |
|------------------------|--------------------------|--------------|---|---|---|---|----|----|
|                        |                          | 3            | 4 | 5 | 8 | 9 | 10 | 11 |
| UP                     | Left side                | ○            | ○ | ○ |   |   | ○  |    |
|                        | Right side               | ○            | ○ |   |   | ○ | ○  |    |
| DOWN                   | Left side                | ○            | ○ | ○ |   |   | ○  |    |
|                        | Right side               | ○            | ○ |   |   | ○ | ○  |    |
| LEFT                   | Left side                | ○            | ○ |   |   |   | ○  | ○  |
|                        | Right side               | ○            | ○ |   | ○ |   | ○  |    |
| RIGHT                  | Left side                | ○            | ○ |   |   |   | ○  | ○  |
|                        | Right side               | ○            | ○ |   | ○ |   | ○  |    |