

# EXTERIOR

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51109000128

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## GENERAL INFORMATION

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### OPERATION

#### WINDSHIELD WIPER AND WASHER

##### Low-speed (and high-speed) wiper operation

- When the wiper switch is placed in the "LO" position with the ignition switch in the "ACC" or "ON" position, wipers operate continuously at low speed.
- Placing the wiper switch in the HI position causes the wipers to operate at high speed.

##### Auto wiper stop operation

- When the wiper switch is placed in the "OFF" position, the cam contacts of wiper motor causes current to flow through the auto wiper stop circuit, allowing the wiper blades to cycle before they reach to the stop positions.

##### Intermittent wiper operation

- When the wiper switch is placed in the "INT" position with the ignition switch in "ACC" or "ON" position, the intermittent wiper relay is energized causing the intermittent wiper relay contacts to close and open repeatedly.

- When the contacts are closed, the wiper motor is energized.
- When the wiper motor is energized, the relay contacts open; however, the cam contacts keep the wiper motor energized until the wiper blades return to their stop position.

##### Washer-wiper operation

- When the washer switch is turned "ON," the intermittent wiper relay contacts close causing wipers to cycle one to two times.

##### Remote controlled mirror

- When the remote-controlled mirror switch is operated while the ignition key is in "ACC" or "ON" position, current flows through multi-purpose fuse No. 7 remote-controlled mirror switch, remote-control mirror, remote-controlled mirror switch, and ground, causing the mirror to move.

## SERVICE SPECIFICATIONS

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Items	Standard value	
Windshield wiper blade installation position mm	Driver's side	20 ± 5 (.78 ± .19)
	Passenger's side	20 ± 5 (.78 ± .19)

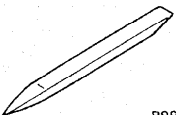
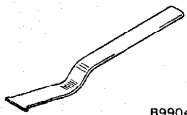
## SEALANT AND ADHESIVE

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Items	Specified sealant and adhesive
Front airdam to front bumper	Adhesive tape: double-sided tape [10 mm width and 1.2 mm thickness]
Side airdam to body panel	Adhesive tape: double-sided tape [5 mm width and 1.2 mm thickness]

## SPECIAL TOOLS

51100060088

Tool	Tool number and name	Supersession	Application
 B990784	MB990784 Ornament remover	General service tool	Removal of bumper mounting clips (front and rear) and door mirror control switch
 B990449	MB990449 Window molding remover	General service tool	Removal of roof drip molding, etc.

# TROUBLESHOOTING

## TROUBLESHOOTING HINTS

### Windshield wiper and washer

1. Wipers do not operate.
  - 1) Washer is not operative, either.
    - Check multi-purpose fuse No. 1.
    - Check ground.
2. Low-speed (or high-speed) wiper operation only is inoperative.
  - Check wiper switch.
3. Wipers do not stop.
  - Check wiper motor.
  - Check intermittent wiper relay.
  - Check wiper switch.
4. Intermittent wiper operation is inoperative.
  - Check terminal voltage of steering-column switch (with a built-in intermittent wiper relay) with the intermittent wiper relay energized. (Refer to Fig.1)
5. The length of pause for intermittent operation cannot be varied.
  - Check variable intermittent wiper control switch.
  - Check intermittent wiper relay.
6. Washer is inoperative.
  - 1) Wiper is operative on washer-wiper operation.
    - Check washer motor.
  - 2) Washer-wiper operation is inoperative also.
    - Check washer switch.
7. Washer-wiper operation is inoperative.
  - Check intermittent wiper relay.

### Remote controlled mirror

Neither right nor left mirror operates.

- 1) Also cigarette lighter wiper does not operate.
  - Check multi-purpose fuse No. 7.
- 2) Windshield wiper operates.
  - Check remote-controlled mirror switch.

Fig.1

Terminal No.	Voltage	Check
8	0V	Intermittent wiper relay or wiper switch
	Battery positive voltage	Intermittent wiper relay
	0 to Battery positive voltage (alternating)	- (Normal)

## FRONT BUMPER

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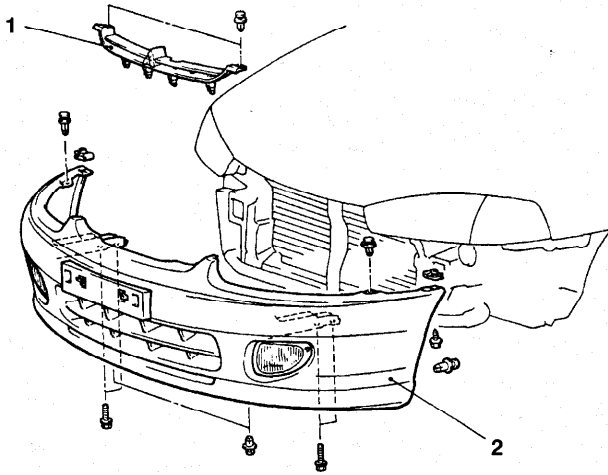
## REMOVAL AND INSTALLATION

**Pre-removal and Post-installation Operation**

(1) Splash Shield Removal and Installation (Refer to GROUP 42 - Fender.)

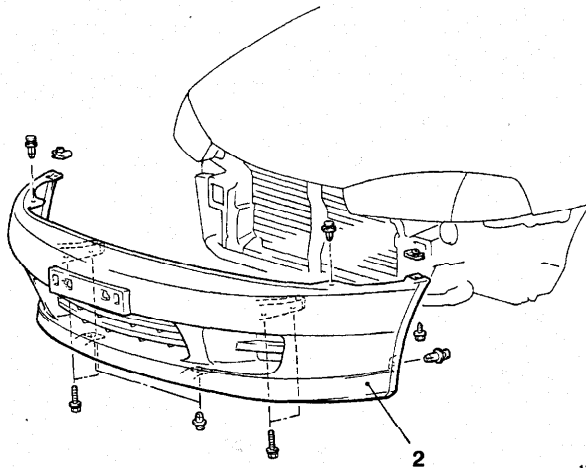
(2) Front Turn-signal Light Removal and Installation (Refer to GROUP 54 - Headlight and Turn Signal Light.)

&lt;2-door models&gt;



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&lt;4-door models&gt;



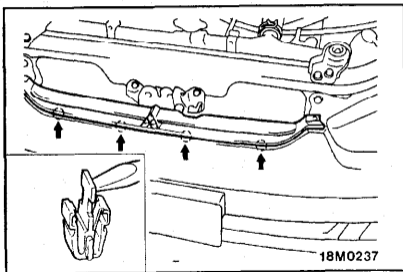
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**Removal steps**

1. Radiator grille
2. Front bumper assembly





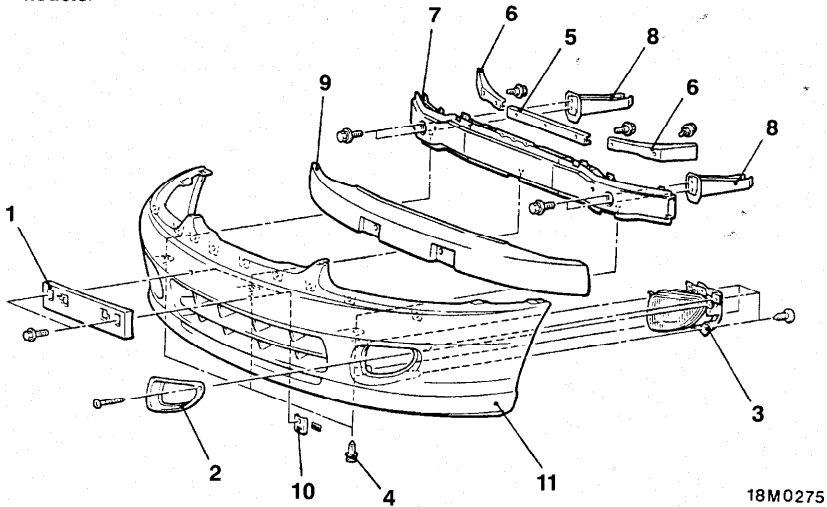
## REMOVAL SERVICE POINT

### ◀A▶ RADIATOR GRILLE REMOVAL <2-door models>

Remove the radiator grille by pushing the tab of the radiator grille clips in the direction of the arrows with a flat-tipped screwdriver, while lightly pulling the radiator grille towards you.

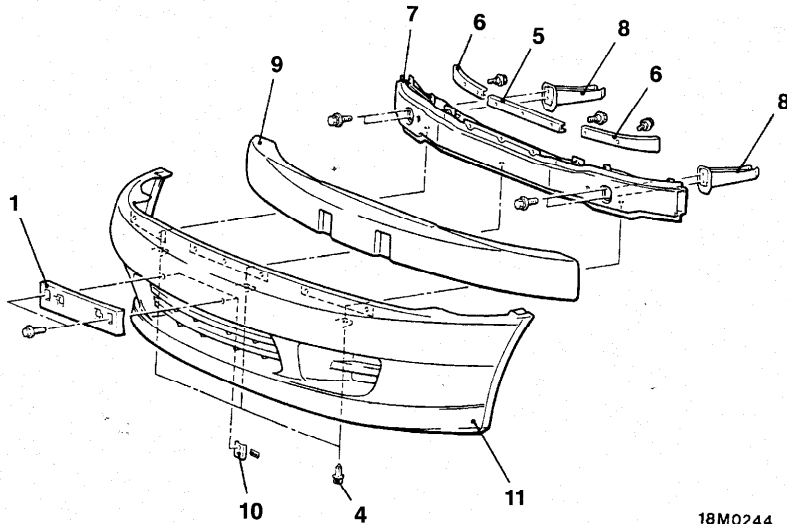
## DISASSEMBLY AND REASSEMBLY

&lt;2-door models&gt;



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&lt;4-door models&gt;



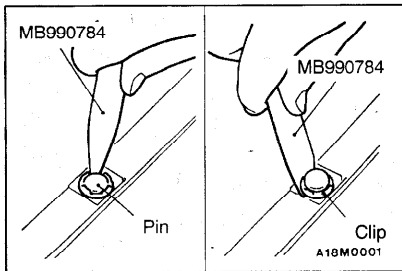
18M0244

**Disassembly steps**

1. License plate garnish
2. Front fog light bezel  
<2-door models>
3. Front fog light assembly  
<2-door models>
4. Clip
5. Upper center plate
6. Upper side plate
7. Bumper reinforcement
8. Bumper stay
9. Bumper core
10. License plate support bracket
11. Bumper face

00004041

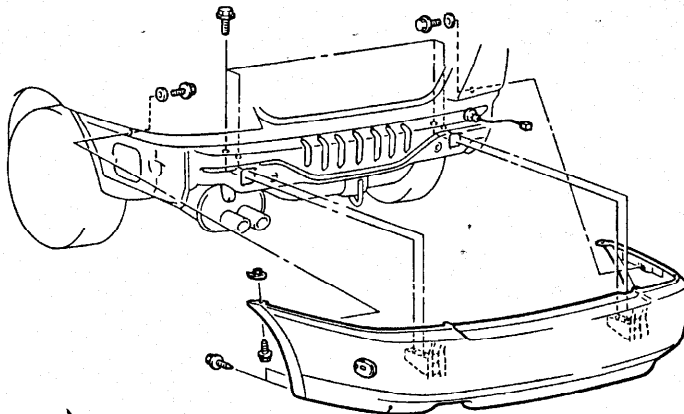
## DISASSEMBLY SERVICE POINT



## REAR BUMPER

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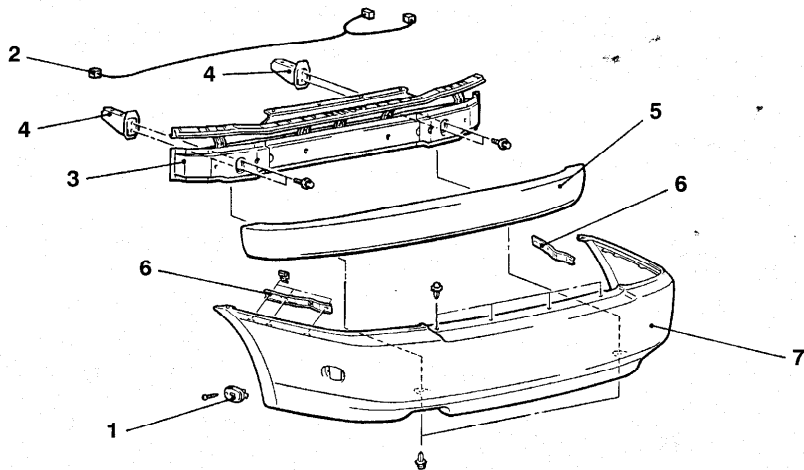
## REMOVAL AND INSTALLATION



## Removal steps

1. Rear bumper assembly

## DISASSEMBLY AND REASSEMBLY



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**Disassembly steps**

1. Rear side marker
2. Rear bumper harness
3. Bumper reinforcement
4. Bumper stay

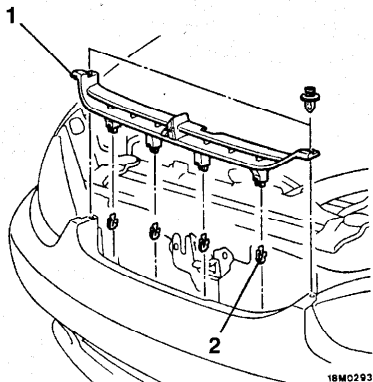
5. Bumper core
6. Side bracket
7. Bumper face



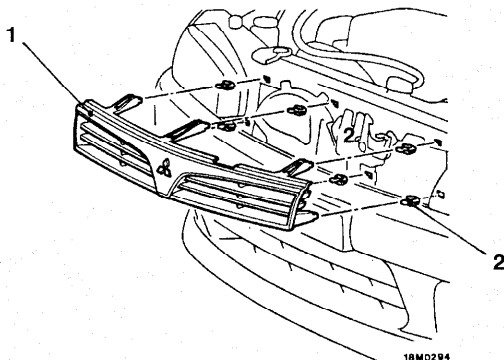
# RADIATOR GRILLE

## REMOVAL AND INSTALLATION

<2-door models>



<4-door models>



00004842

### Removal steps

1. Radiator grille
2. Clip

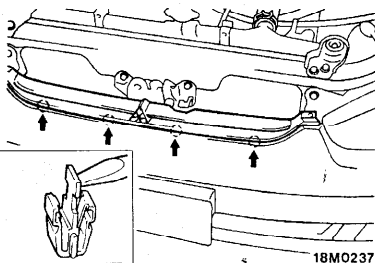


## REMOVAL SERVICE POINT

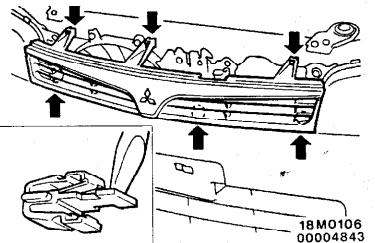
### ◀▶ RADIATOR GRILLE REMOVAL

Remove the radiator grille by pushing the tab of the radiator grille clips in the direction of the arrows with a flat-tipped screwdriver, while lightly pulling the radiator grille toward you.

<2-door models>



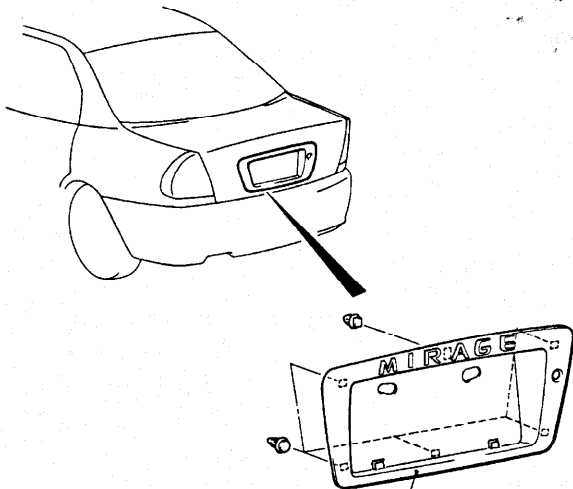
<4-door models>



## GARNISHES

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## REMOVAL AND INSTALLATION

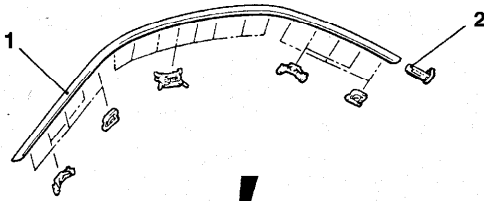


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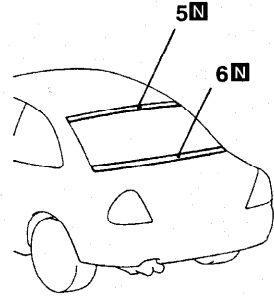
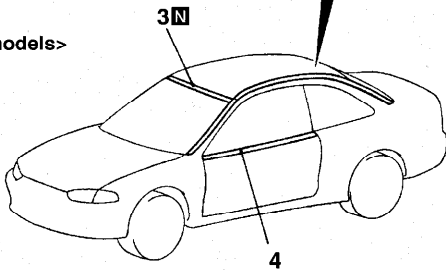
License plate garnish

**MOLDINGS**

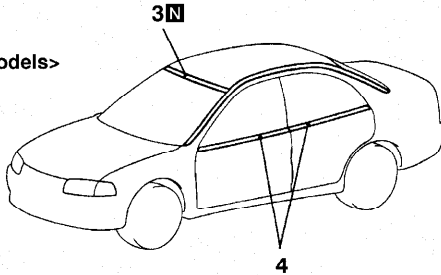
**REMOVAL AND INSTALLATION**



<2-door models>



<4-door models>



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1. Roof drip molding  
 2. End cap  
 3. Windshield upper molding (Refer to GROUP 42 - Windshield.)  
 4. Belt line molding (Refer to GROUP 42 - Window Glass Runchannel and Door Opening Weatherstrip.)

5. Rear window molding upper (Refer to GROUP 42 - Rear Window Glass.)  
 6. Rear window molding lower (Refer to GROUP 42 - Rear Window Glass.)

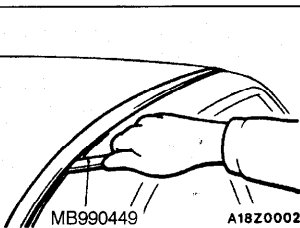
**REMOVAL SERVICE POINT**

**◀▶ ROOF DRIP MOLDING REMOVAL**

Use the special tool to lever out the molding.

**Caution**

If the molding has become warped, it should not be reused.

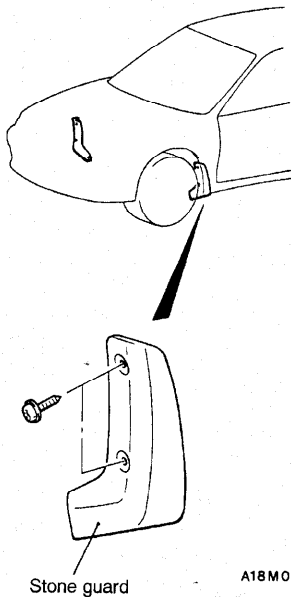


**INSTALLATION SERVICE POINT****▶◀ ROOF DRIP MOLDING INSTALLATION**

- (1) Install the clips to the clip installation bosses on the roof.
- (2) Install the roof molding with the clips.

**STONE GUARD****REMOVAL AND INSTALLATION**

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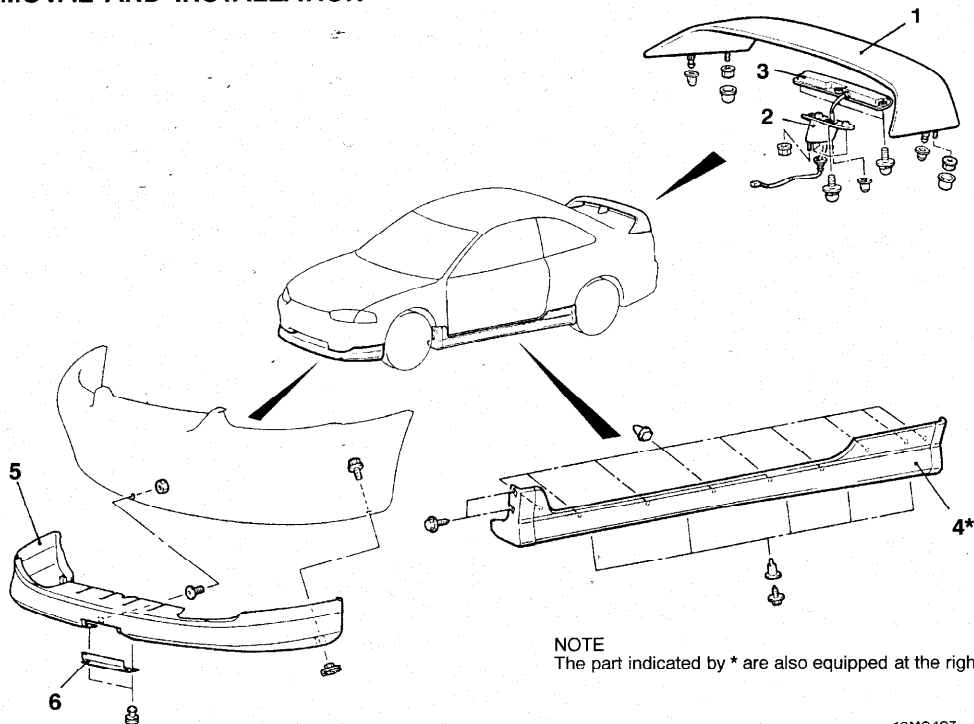
**NOTE**

The stone guard is also attached on the right side.

AERO PARTS

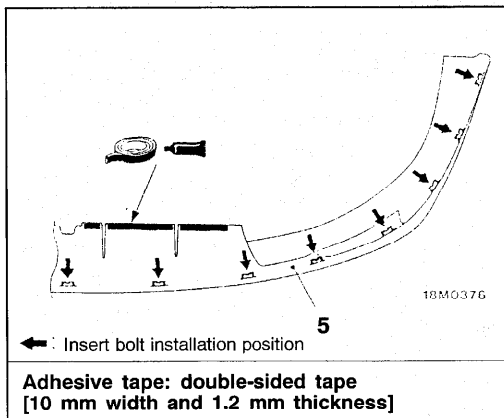
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REMOVAL AND INSTALLATION



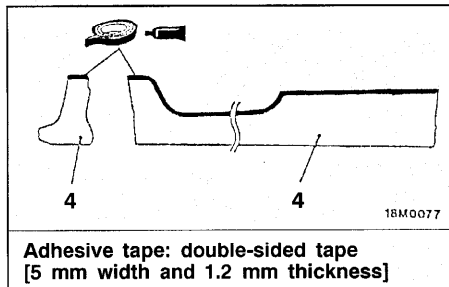
NOTE  
The part indicated by \* are also equipped at the right side.

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Rear spoiler removal steps

1. Rear spoiler
2. Center stay
3. High-mounted stop light



Side airdam removal  
<2-door models>

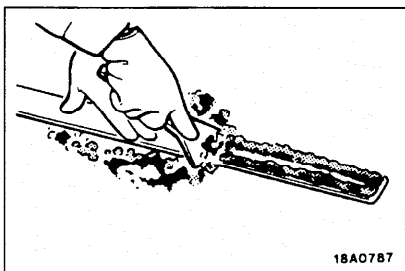
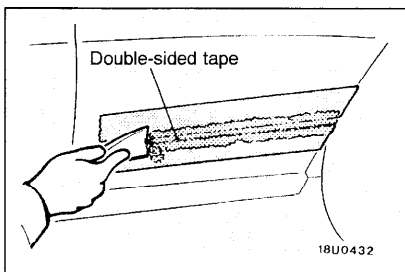
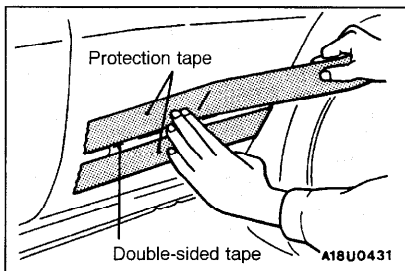


4. Side airdam

Front airdam removal steps  
<2-door models>



5. Front airdam
6. Airdam center cover



## REMOVAL SERVICE POINT

### ◀▶ SIDE AIRDAM/FRONT AIRDAM 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

### ▶◀ FRONT AIRDAM/SIDE AIRDAM INSTALLATION

Affixing double-sided tape to the side airdam (when reusing).

1. Scrape off the double-sided tape with a resin spatula or gasket scraper.
2. Wipe the side airdam adhesion surface and clean it with a rag moistened with isopropyl alcohol.
3. Affix specified pressure sensitive double-sided tape to the side airdam.

#### Specified adhesive tape:

##### Double-sided tape

Front airdam: 10 mm width and 1.2 mm thickness

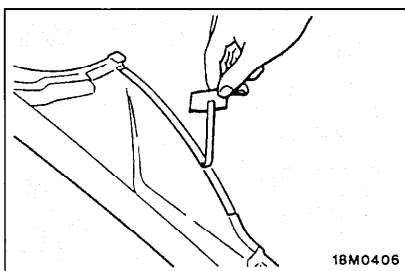
Side airdam: 5 mm width and 1.2 mm thickness

4. 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.

5. Install the side airdam.



**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 side airdam, before affixing the tape.

Body ..... 40 - 60°C (104 - 140°F)

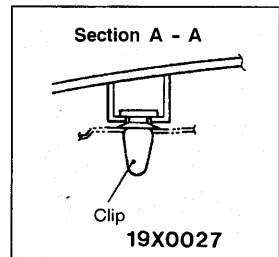
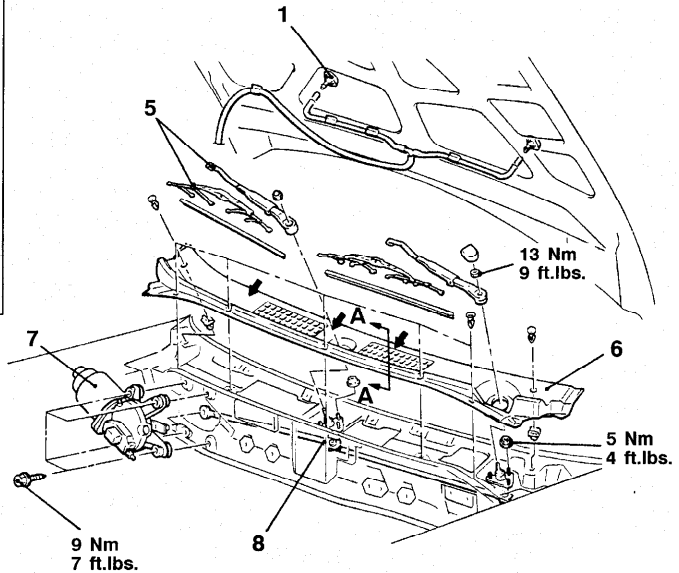
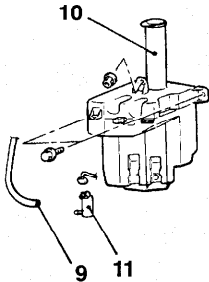
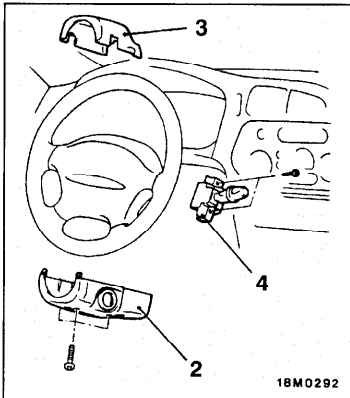
Front airdam/

Side airdam ..... 20 - 30°C (68 - 86°F)

Apply pressure fully to the side airdam.

## WINDSHIELD WIPER AND WASHER

## REMOVAL AND INSTALLATION



## NOTE

◀ : Clip position

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1. Washer nozzle assembly

### Wiper and washer switch removal steps

2. Column cover, lower
3. Column cover, upper
4. Wiper and washer switch

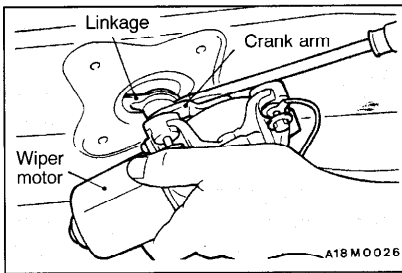
### Wiper motor and linkage removal steps

5. Wiper arm and blade assembly
6. Front deck garnish
7. Wiper motor
8. Linkage

### Washer tank removal steps

- Draining of washer fluid
- Front bumper (Refer to P.51-3.)
- 9. Washer hose
- 10. Washer tank
- 11. Washer motor





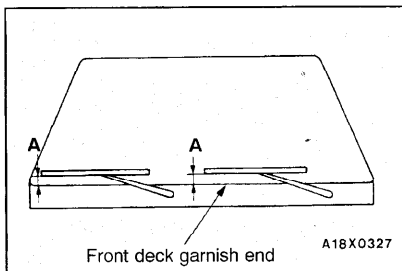
**REMOVAL SERVICE POINT**

**◀A▶ WIPER MOTOR REMOVAL**

Loosen the wiper motor assembly mounting bolts, and then remove the wiper motor assembly. Disconnect the linkage and the motor assembly, and then remove the linkage.

**Caution**

Because the installation angle of the crank arm and the motor has been set, do not remove them unless it is necessary to do so. If they must be removed, remove them only after marking their mounting positions.

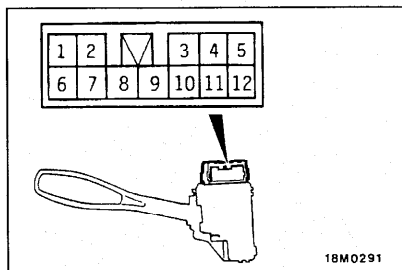


**INSTALLATION SERVICE POINT**

**▶A◀ WIPER ARM AND BLADE ASSEMBLY INSTALLATION**

Install the wiper blade in the specified position (standard value) as shown in the illustration.

**Standard value (A): 25 ± 5 mm**



**INSPECTION**

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**Wiper and Washer Switch**

Switch position		Terminal No.				
		6	7	8	9	10
Wiper switch	OFF		○ — ○			
	INT		○ — ○			
	1 (LO)			○ — ○		
	2 (HI)				○ — ○	
Washer switch	ON	○ — ○				

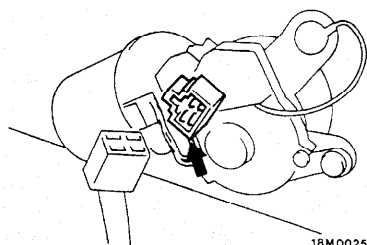
**Intermittent Wiper Relay (Intermittent Operation Inspection)**

1. Connect the column switch connector.
2. Turn the ignition switch to "ACC."
3. Inspect the intermittent operation time when the wiper switch is turned to INT.

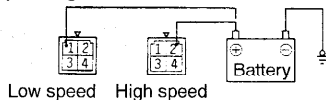
**Vehicles with variable intermittent control**

**FAST: Approx. 2 seconds**

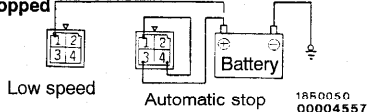
**SLOW: Approx. 15 seconds**



### Inspection while operating



### Inspection while stopped



## WIPER MOTOR CHECK

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Check the wiper motor after disconnecting the wiring harness connector, and with the wiper motor remaining installed to the body.

### 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.

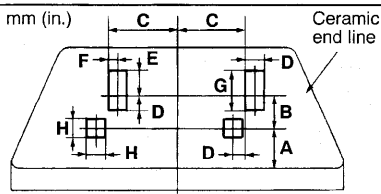
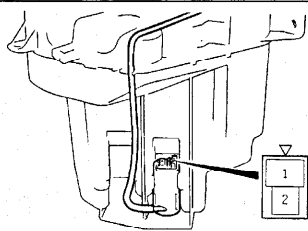
### Wiper Motor at Stop Position Operation

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, and stops at the automatic stop position.

## WASHER MOTOR CHECK

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1. With the washer motor installed to the washer tank, fill the washer tank with water.
2. Check that the water squirts out strongly when battery voltage is applied to terminals (1) and (2).



A: 230 (9.1)	D: 70 (2.8)	G: 180 (7.1)
B: 150 (5.9)	E: 110 (4.3)	H: 80 (3.1)
C: 300 (11.8)	F: 30 (1.2)	

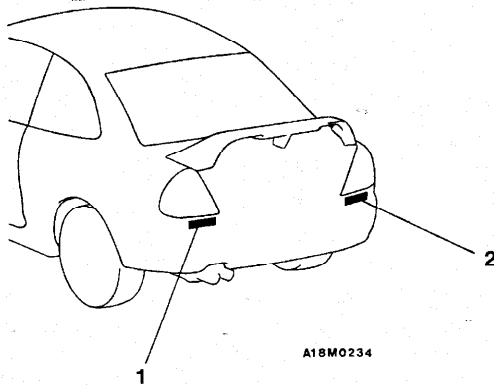
## WASHER FLUID EJECTION POINTS CHECK

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Adjust the ejection angle by moving the ball inside the nozzle.

## MARKS

## REMOVAL AND INSTALLATION



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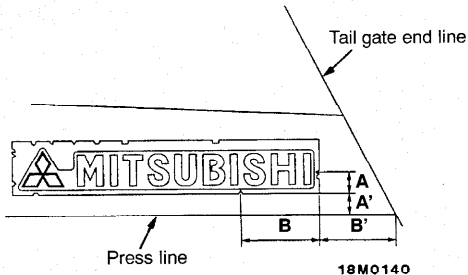
- A 1. MITSUBISHI mark  
 A 2. GRADE mark

## INSTALLATION SERVICE POINT

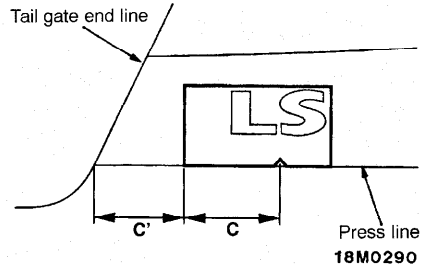
## MARK INSTALLATION

Each dimension from the edge to the notch of the mark should be equal to each installation dimension. (i.e.  $A=A'$ ,  $B=B'$ ,  $C=C'$ )

## MITSUBISHI MARK



## GRADE MARK &lt;ES, LS, DE&gt;



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1. Clean the mark installation surfaces on the body with unleaded gasoline.
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.

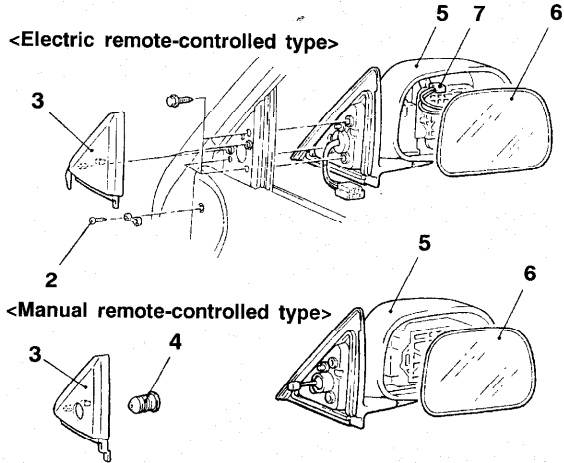
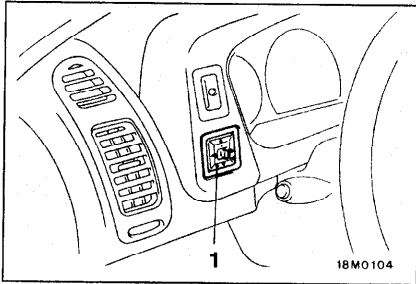
**Caution**

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

## REMOVAL AND INSTALLATION



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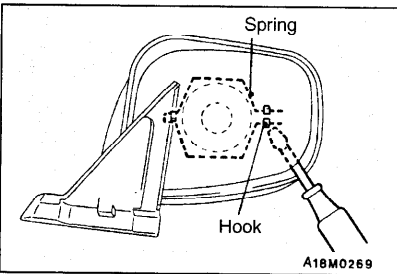
1. Door mirror control switch

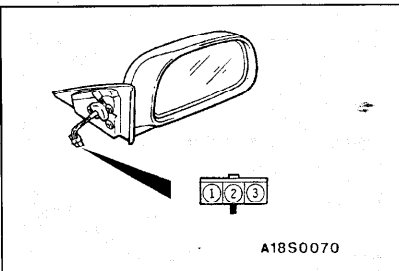
**Door mirror removal steps**

2. Door trim attaching screw
3. Delta cover inner
4. Boot
5. Door mirror
6. Mirror
7. Harness connector

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

Let the mirror face up, insert a flat-tipped screwdriver wound with masking tape, and remove the mirror by releasing the spring from the hook.





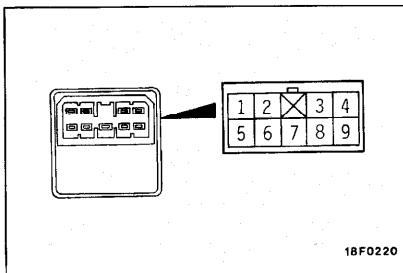
**INSPECTION**

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**REMOTE CONTROL MIRROR ASSEMBLY CHECK**

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

Terminal No.			Direction of operation
1	2	3	
⊖	—	⊕	UP
⊕	—	⊖	DOWN
⊕	⊖		RIGHT
⊖	⊕		LEFT



**DOOR MIRROR CONTROL SWITCH CONTINUITY CHECK**

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Switch position		Terminal No.						
		2	3	4	6	7	8	9
Left side	UP			○	○	○	○	
	DOWN			○	○	○		
	LEFT			○	○	○		
	RIGHT		○	○	○	○		
Right side	UP	○	○		○	○		
	DOWN	○	○		○	○		
	LEFT			○	○	○		○
	RIGHT			○	○	○		○