
EXTERIOR

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51109000104

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51-2 EXTERIOR – Service Specifications/Sealant and Adhesive/Special Tools

SERVICE SPECIFICATIONS

51100030096

Items		Standard value
Windshield wiper blade installation position mm	Driver's side	20±5
	Passenger's side	20±5
Rear wiper blade installation position mm		77±5

SEALANT AND ADHESIVE

51100050092

Items	Specified sealant and adhesive
Front airdam panel or rear spoiler <Hatchback> to body panel	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]
Rear side airdam to body panel	Adhesive tape: double-sided tape [10 mm width and 0.8 mm thickness]

SPECIAL TOOLS

51100060071

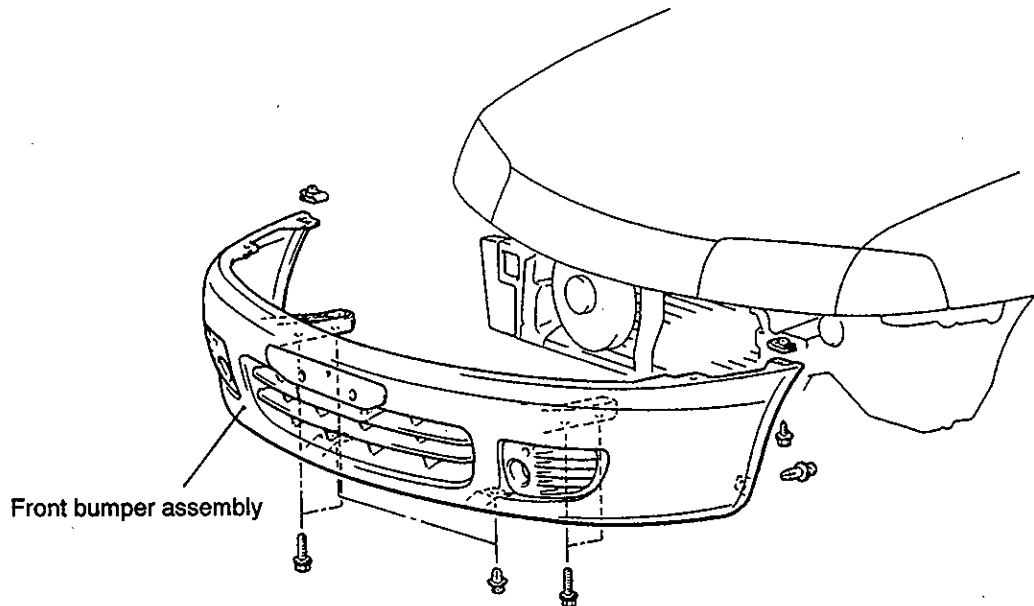
Tool	Number	Name	Use
	MB990784	Ornament remover	Removal of bumper mounting clips (front and rear) and door mirror control switch
	MB990449	Window moulding remover	Removal of roof drip moulding, etc.

FRONT BUMPER

51100140096

REMOVAL AND INSTALLATION**Pre-removal and Post-installation Operation**

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

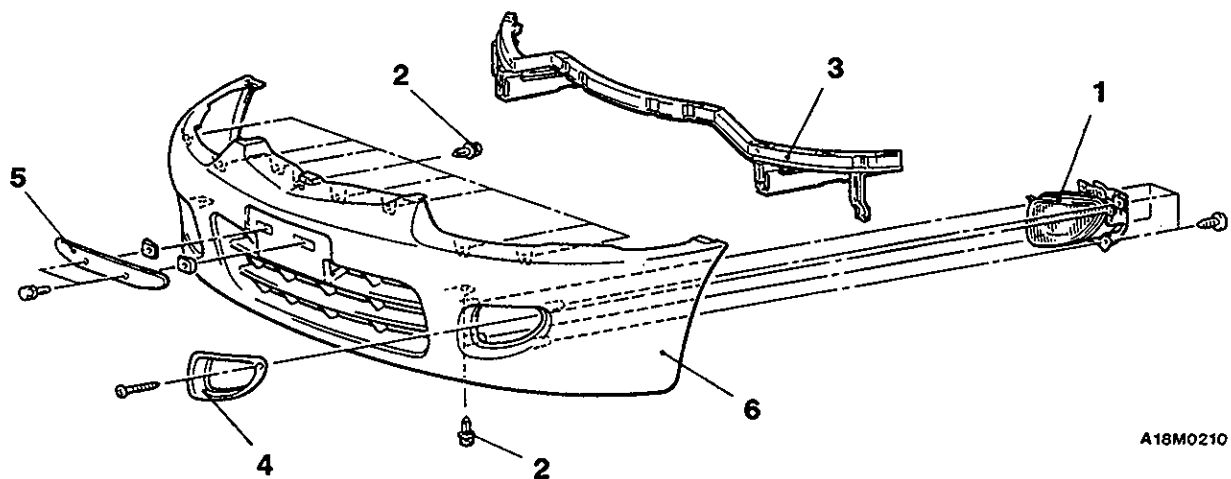


A18M0198

DISASSEMBLY AND REASSEMBLY

51100160108

<Hatchback>



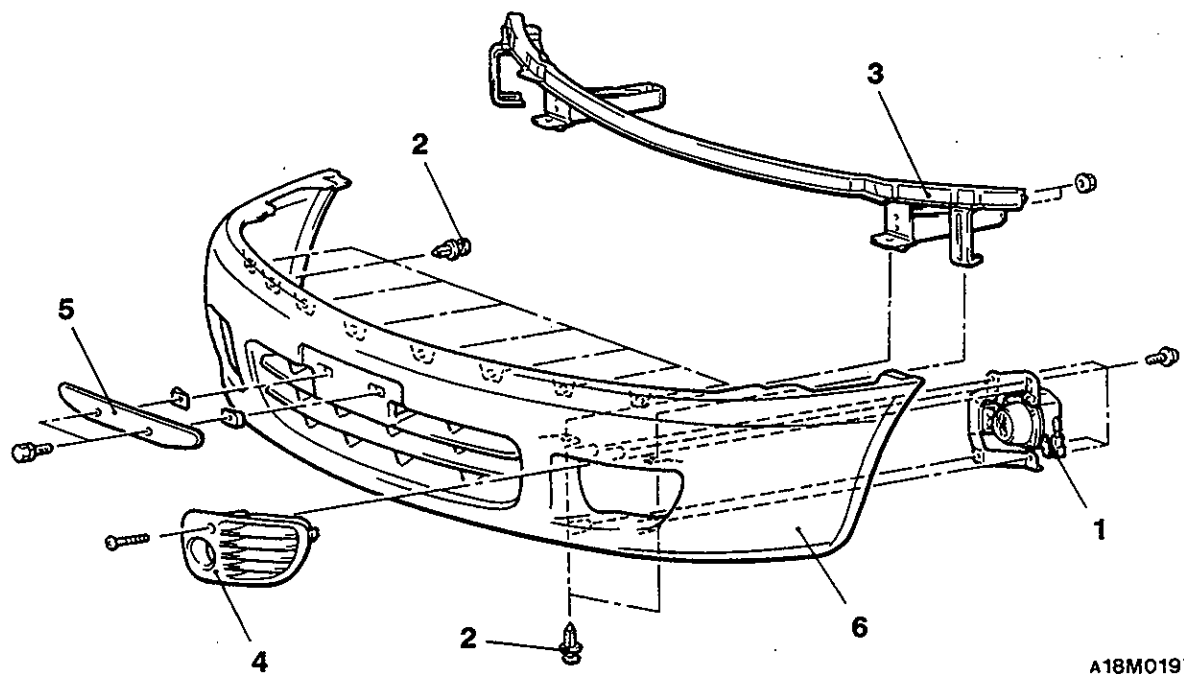
A18M0210

Disassembly steps

1. Front fog lamp assembly
2. Clip
3. Front bumper reinforcement

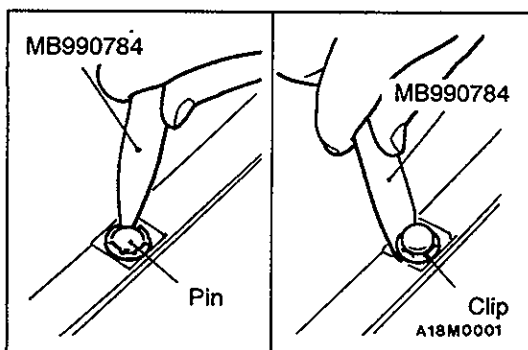
4. Front fog lamp bezel
5. Licence plate bracket
6. Bumper face

<Sedan>

**Disassembly steps**

1. Front fog lamp assembly
2. Clip
3. Front bumper reinforcement

4. Front fog lamp bezel
5. Licence plate bracket
6. Bumper face

**DISASSEMBLY SERVICE POINT****◀A▶ CLIP REMOVAL**

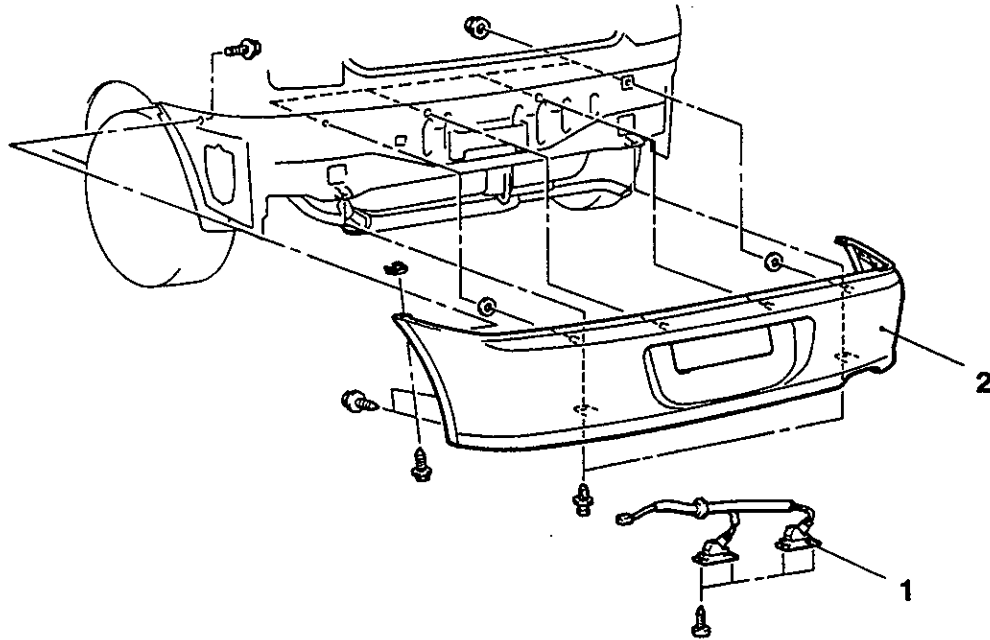
- (1) Use the special tool to pull up the centre pin in the clip.
- (2) Remove the clip.

REAR BUMPER

51100190114

REMOVAL AND INSTALLATION

<Hatchback>

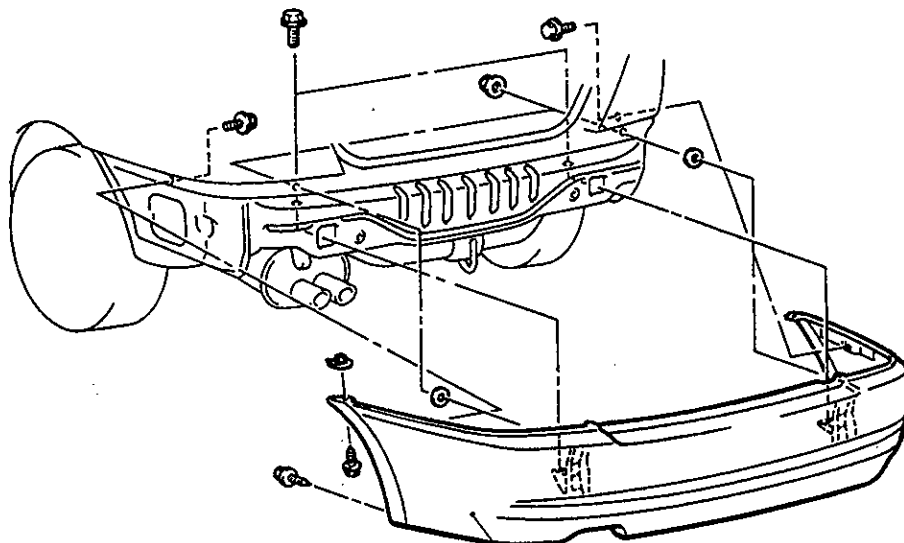


A18M0102

Removal steps

1. Licence plate lamp
2. Rear bumper assembly

<Sedan>



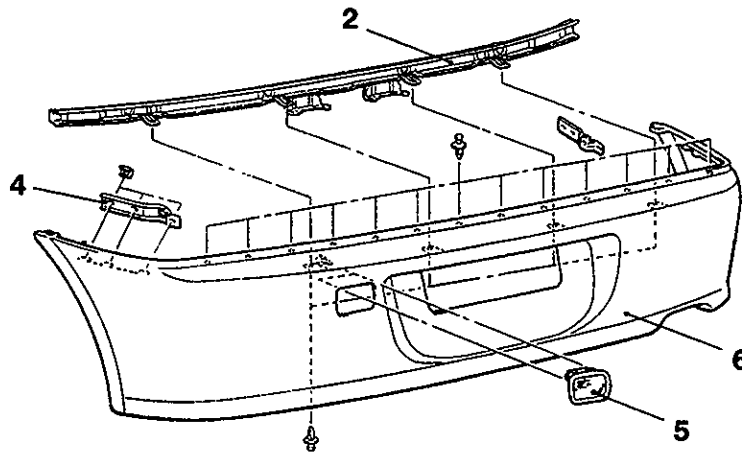
Rear bumper assembly

A18M0100

DISASSEMBLY AND REASSEMBLY

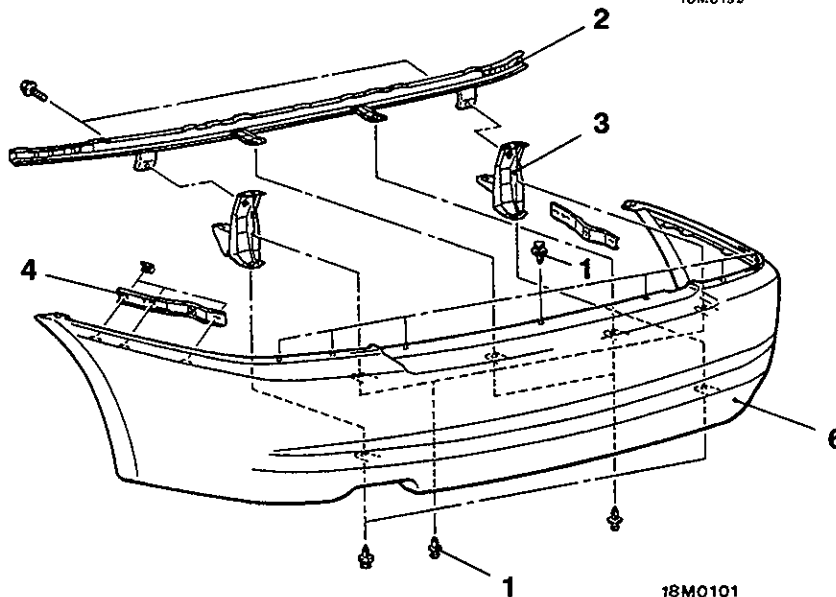
51100210094

<Hatchback>



18M0199

<Sedan>



18M0101

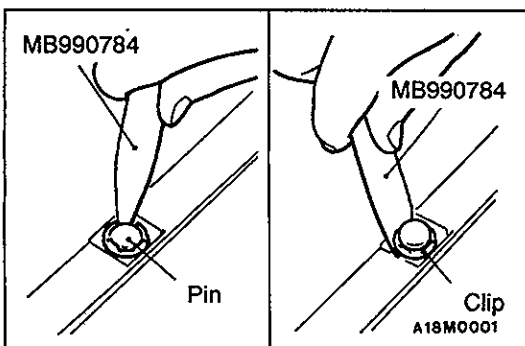
00004552

Disassembly steps



1. Clip
2. Rear bumper reinforcement
3. Rear bumper bracket assembly

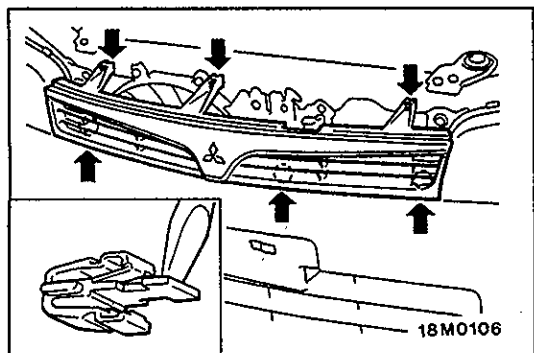
4. Side reinforcement
5. Rear fog lamp
6. Bumper face



DISASSEMBLY SERVICE POINT

◀A▶ CLIP REMOVAL

- (1) Use the special tool to pull up the centre pin in the clip.
- (2) Remove the clip.

**RADIATOR GRILLE**

51100280019

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 towards you.

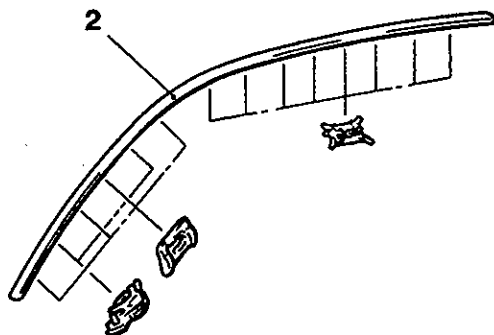
MOULDINGS

51100470089

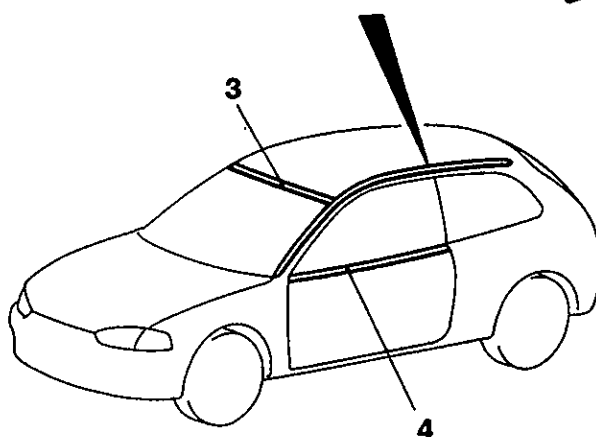
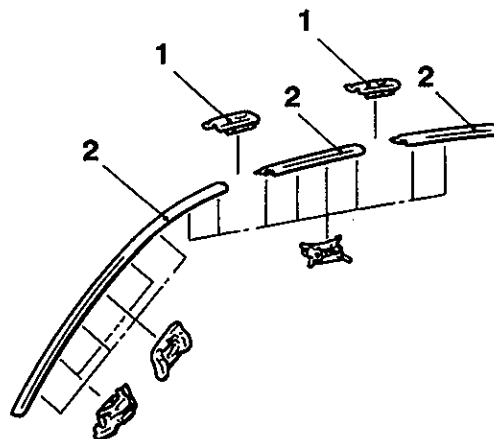
REMOVAL AND INSTALLATION

<Hatchback>

<Vehicles without roof carrier cap>



<Vehicles with roof carrier cap>



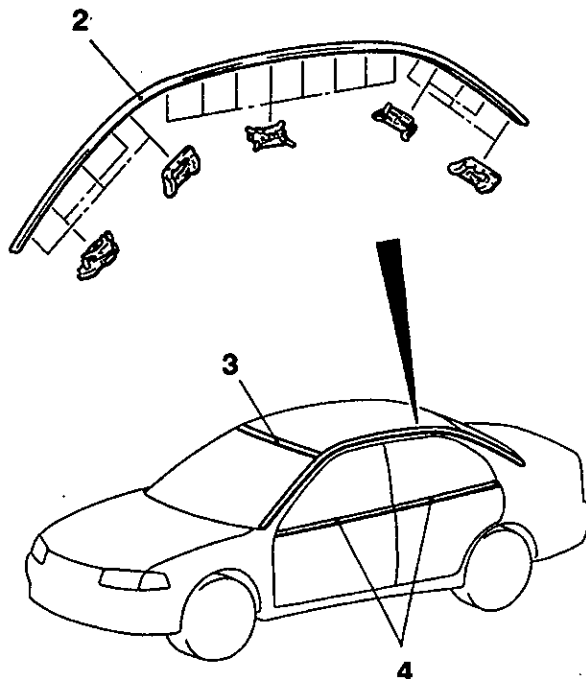
A18M0195



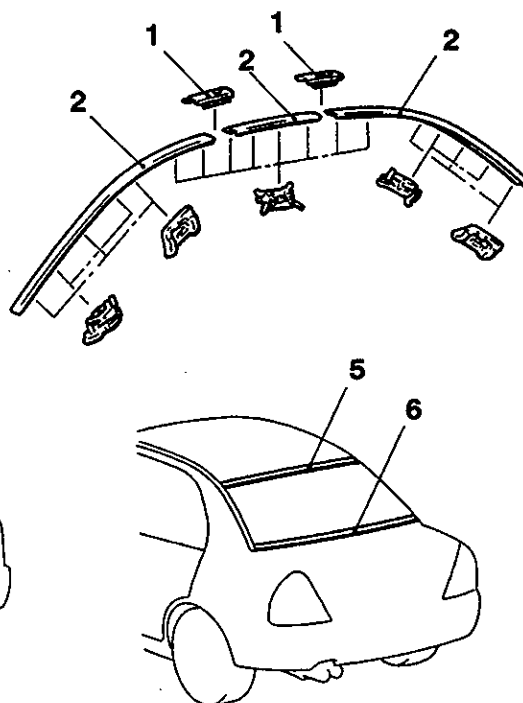
1. Roof carrier caps
2. Roof drip moulding
3. Windshield upper moulding (Refer to GROUP 42 – Windshield.)
4. Belt line moulding (Refer to GROUP 42 – Window Glass Runchannel and Door Opening Weatherstrip.)

<Sedan>

<Vehicles without roof carrier cap>



<Vehicles with roof carrier cap>

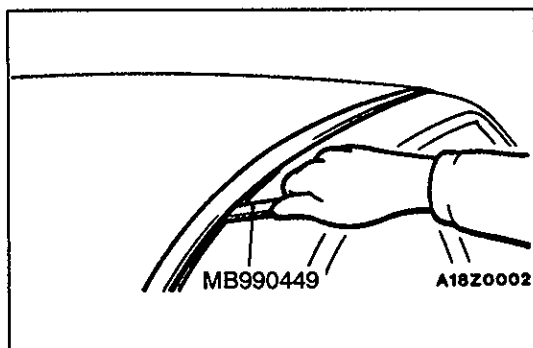


A18M0194



1. Roof carrier caps
2. Roof drip moulding
3. Windshield upper moulding (Refer to GROUP 42 – Windshield.)
4. Belt line moulding (Refer to GROUP 42 – Window Glass Runchannel and Door Opening Weatherstrip.)

5. Rear window moulding upper (Refer to GROUP 42 – Rear Window Glass.)
6. Rear window moulding lower (Refer to GROUP 42 – Rear Window Glass.)

**REMOVAL SERVICE POINT****◀A▶ ROOF DRIP MOULDING REMOVAL**

Use the special tool to lever out the moulding.

Caution

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

INSTALLATION SERVICE POINT**▶A◀ ROOF DRIP MOULDING INSTALLATION**

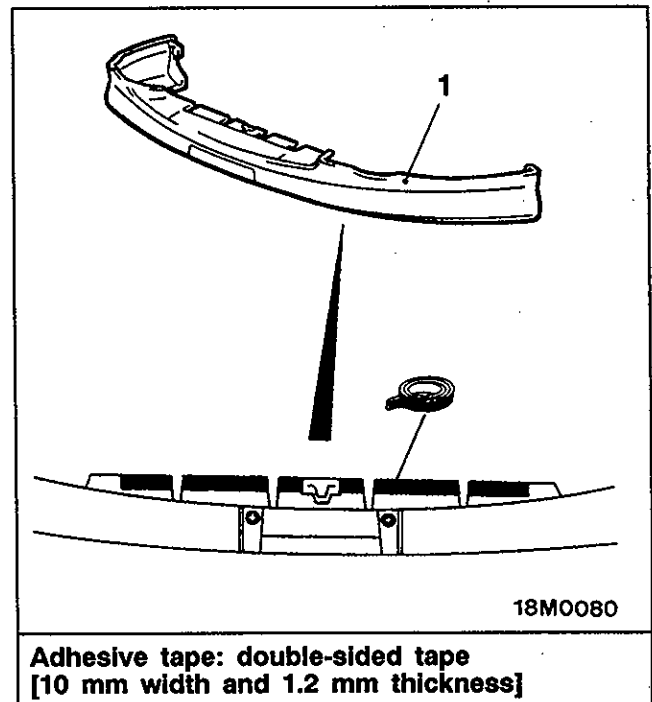
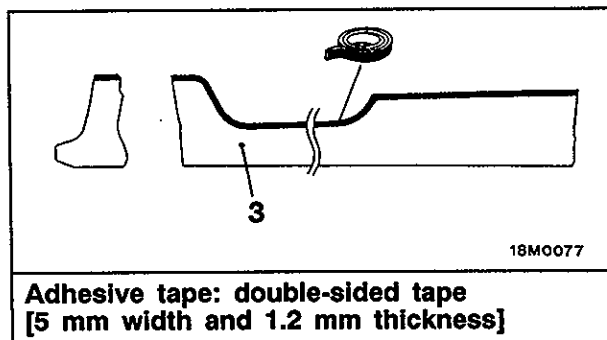
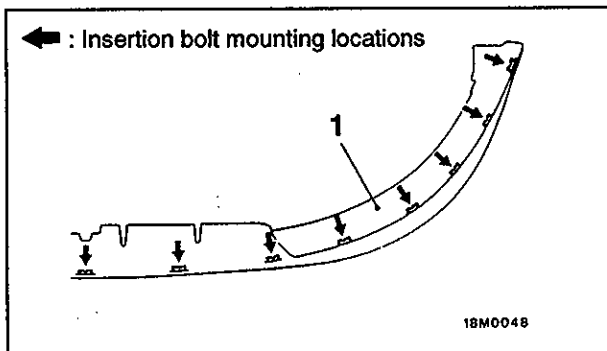
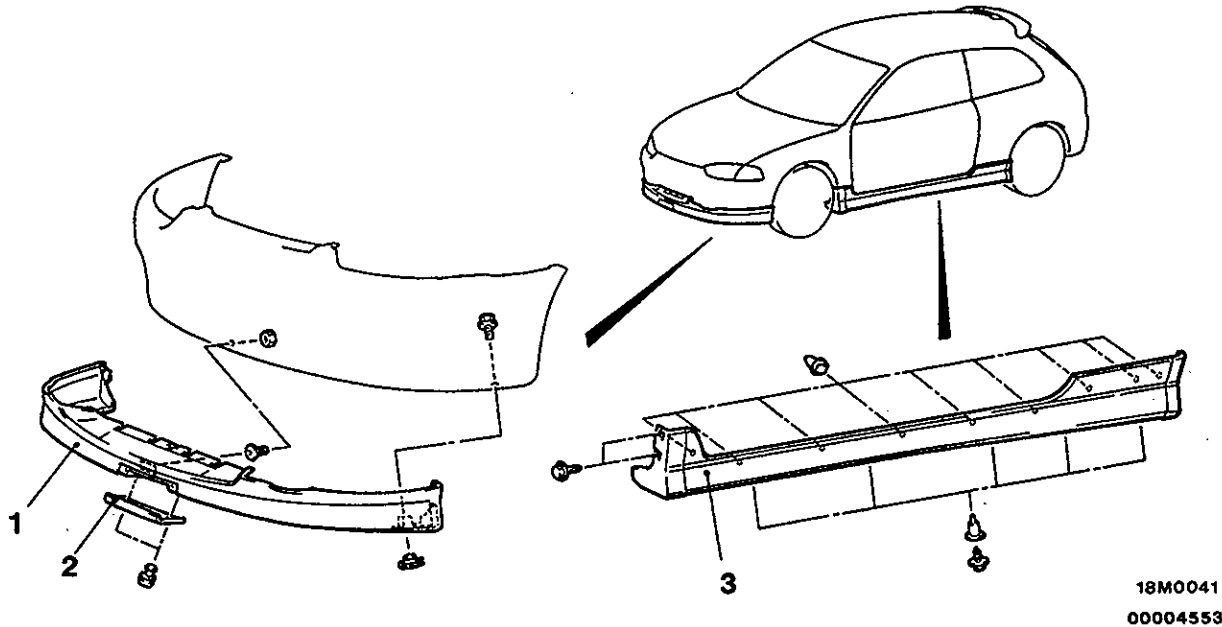
- (1) Install the clips to the clip installation bosses on the roof.
- (2) Install the roof moulding with the clips.

AERO PARTS

51100500085

REMOVAL AND INSTALLATION

<Hatchback>



Front airdam panel removal steps



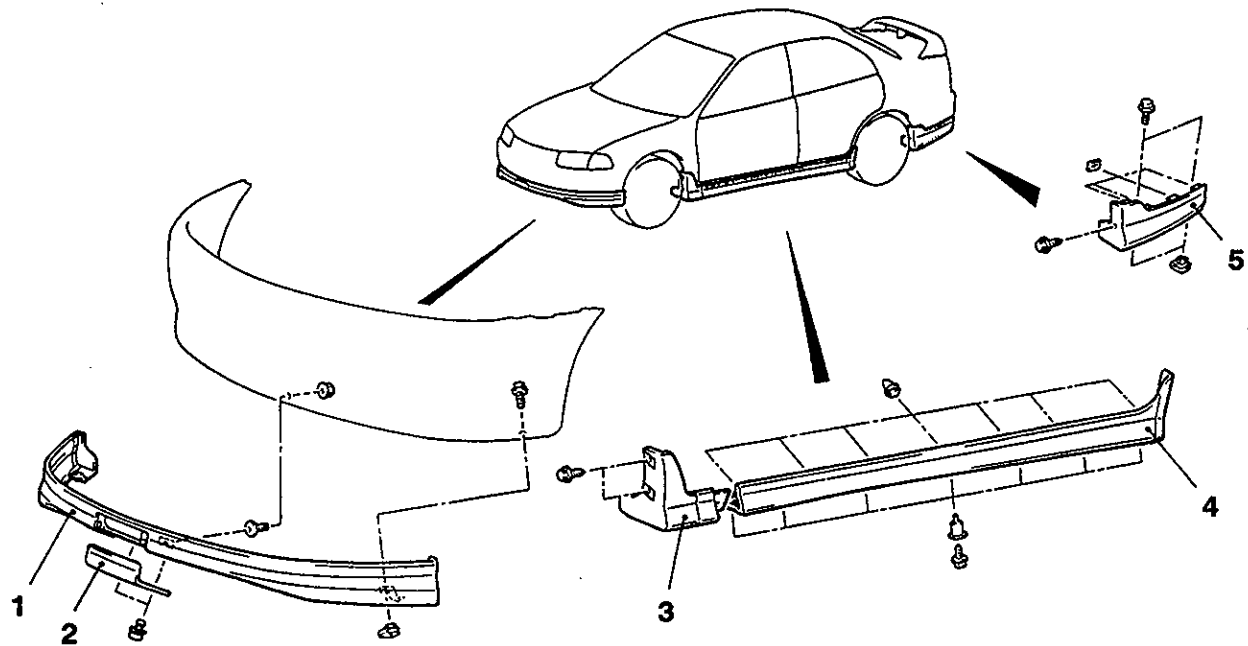
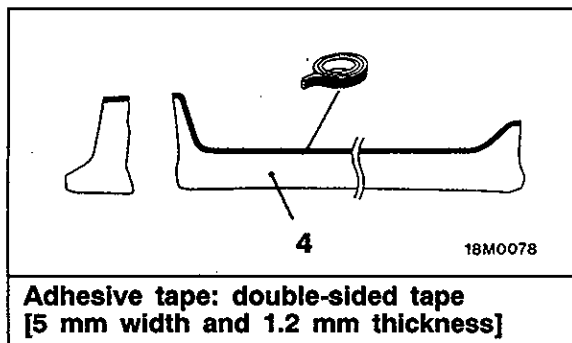
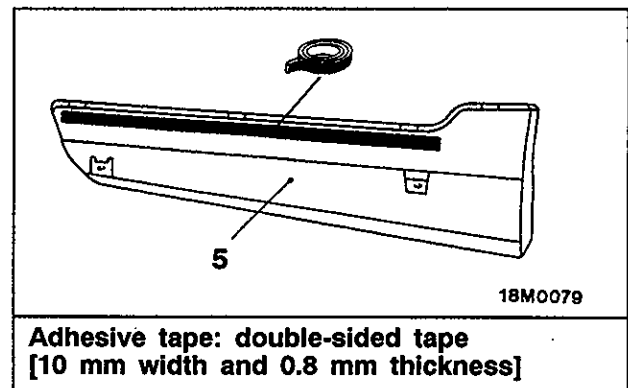
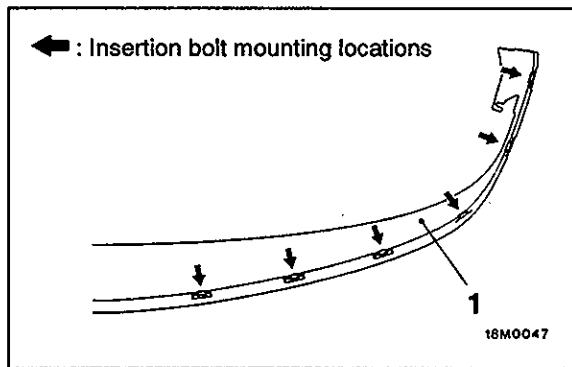
1. Front airdam panel
2. Center cover

Side airdam removal



3. Side airdam

<Sedan>

18M0044
00004554**Front airdam panel removal steps**

1. Front airdam panel
2. Center cover

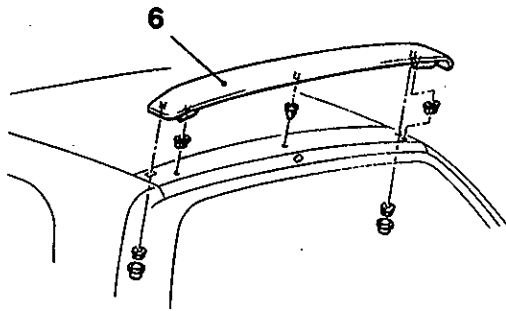
Side airdam removal steps

3. Side airdam front
4. Side airdam rear

Rear side airdam removal

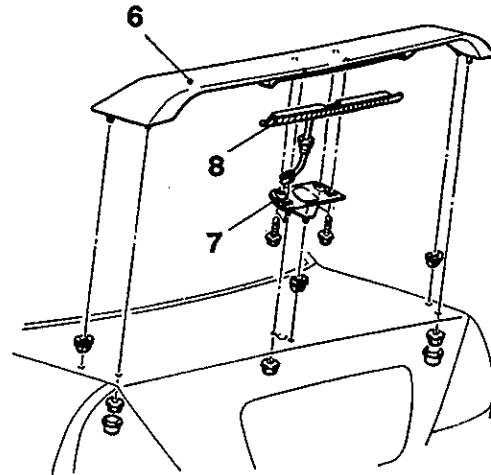
5. Rear side airdam

<Hatchback>



18M0127

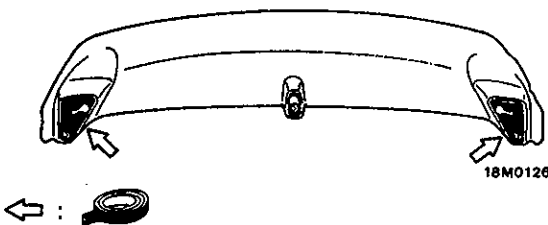
<Sedan>



18M0128

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<Hatchback>

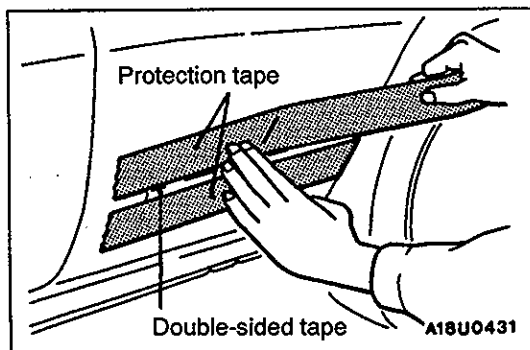


18M0126

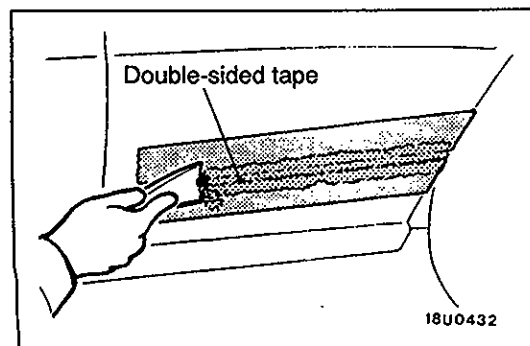
Adhesive tape: double-sided tape
[10 mm width and 1.2 mm thickness]

Rear spoiler removal

- 6. Rear spoiler
- 7. Center stay
- 8. High-mounted stop lamp



A18U0431

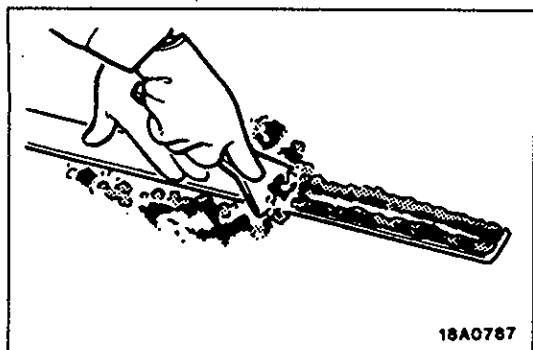


18U0432

REMOVAL SERVICE POINT

◀A▶ FRONT AIRDAM PANEL/SIDE AIRDAM/REAR SIDE AIRDAM/REAR 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 POINTS

►A◄ FRONT AIRDAM PANEL/SIDE AIRDAM/REAR SIDE AIRDAM/REAR SPOILER INSTALLATION

Double-sided tape affixing to the front airdam panel, side airdam, rear side airdam or rear spoiler (when reusing)

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

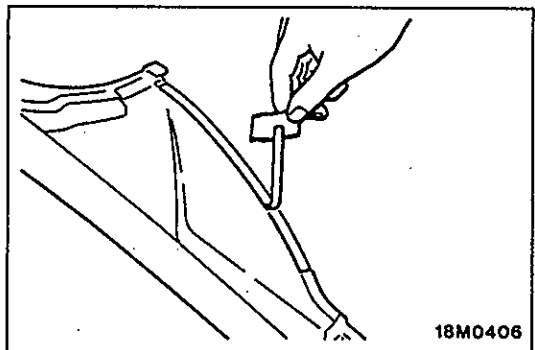
Specified adhesive tape:

Double-sided tape

Front airdam panel or rear spoiler: 10 mm width and 1.2 mm thickness

Side airdam: 5 mm width and 1.2 mm thickness

Rear side airdam: 10 mm width and 0.8 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 front airdam panel, side airdam, rear side airdam 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 front airdam panel, side airdam, rear side airdam or rear spoiler before affixing the tape.

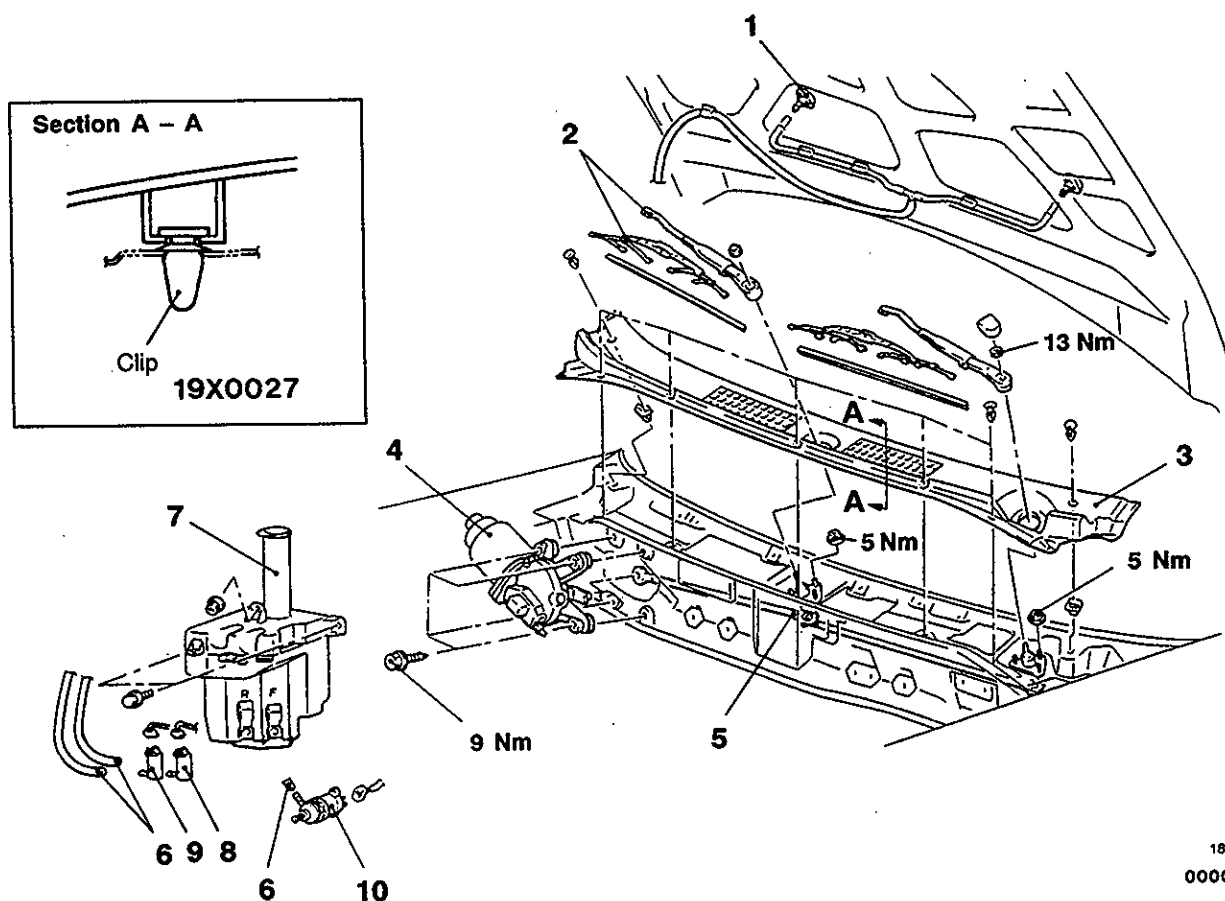
Body 40–60°C

Front airdam panel, side airdam, rear side airdam or rear spoiler 20 – 30°C

Apply pressure fully to the front airdam panel, side airdam, rear side airdam or rear spoiler.

WINDSHIELD WIPER AND WASHER REMOVAL AND INSTALLATION

51100760117



1. Washer nozzle assembly

Wiper motor and linkage removal steps

- 2. Wiper arm and blade assembly
- 3. Front deck garnish
- 4. Wiper motor
- 5. Linkage

Washer tank removal steps

- Draining of washer fluid
- Front bumper (Refer to P.51-3.)

6. Washer hose

7. Washer tank

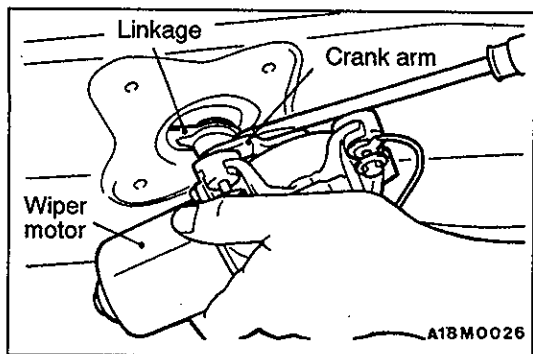
8. Washer motor (Front)

9. Washer motor (Rear)

10. Washer motor <Vehicles with headlamp washer>

NOTE

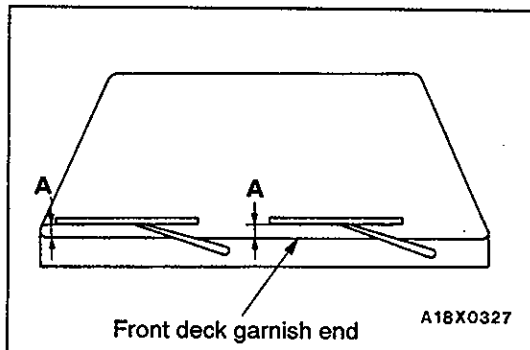
For removal and installation of the column switch assembly (windshield wiper and washer switch), refer to GROUP 37A – Steering Wheel and Shaft.

**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.

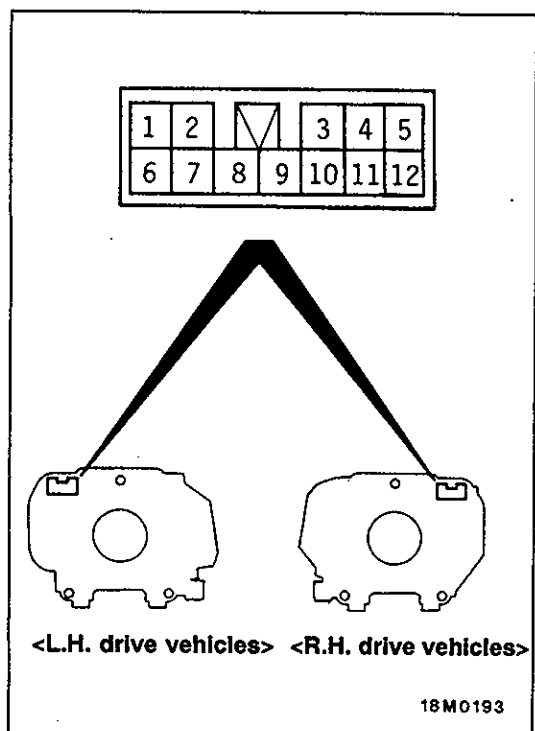
Standard value (A): 20±5 mm

INSPECTION

51100770080

COLUMN SWITCH CHECK**Wiper and Washer Switch****<L.H. drive vehicles>**

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

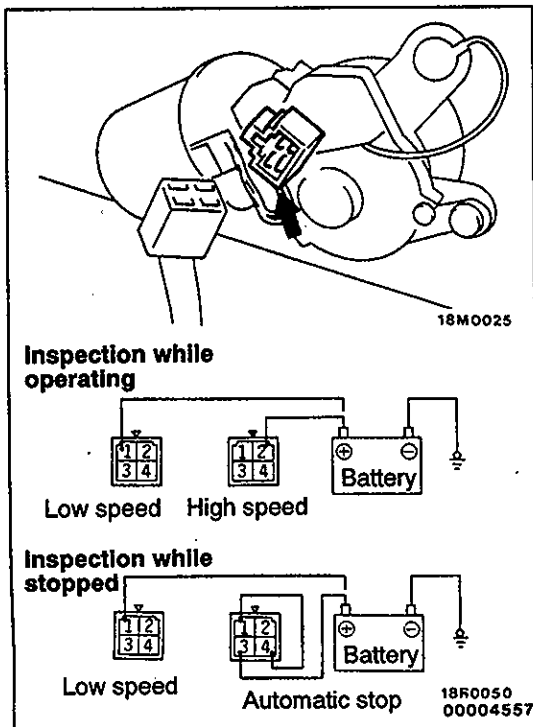


<R.H. drive vehicles>

Switch position		Terminal No.				
		8	9	10	11	12
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****WIPER MOTOR CHECK**

51101260043

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.

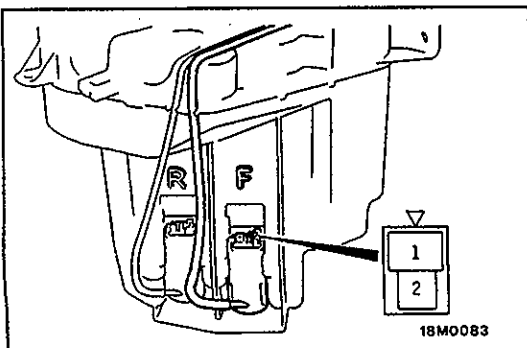
Wiper Motor at Stop Position Operation

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, it stops at the automatic stop position.

WASHER MOTOR CHECK

51101270046

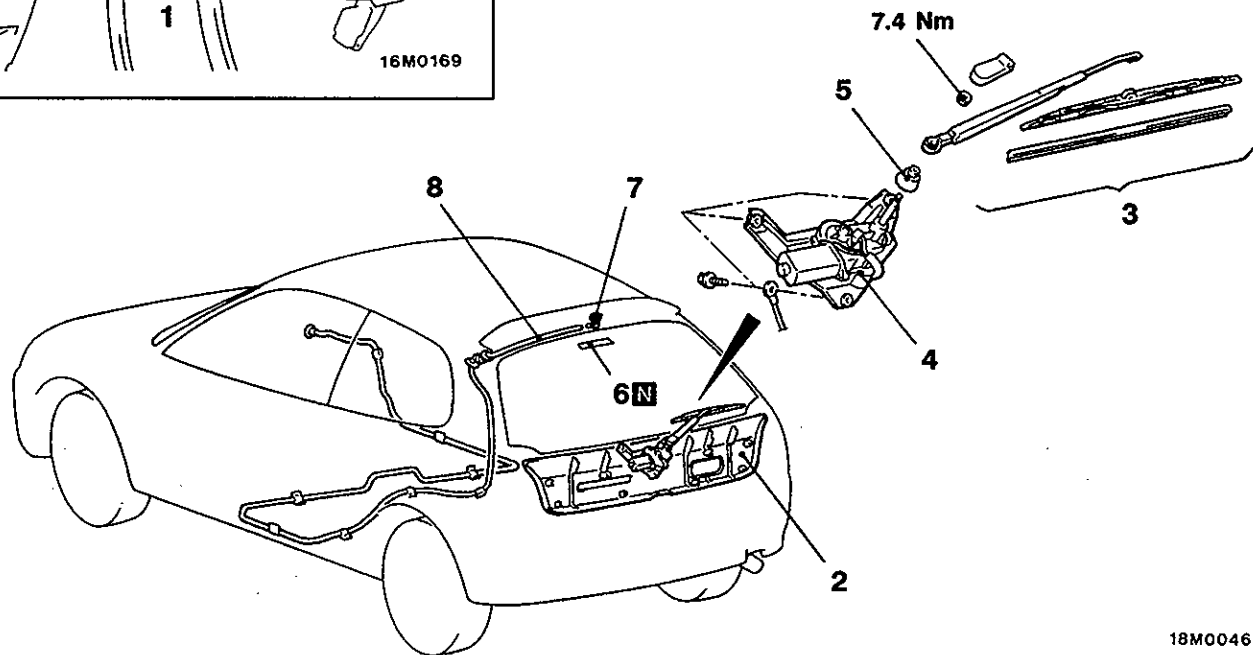
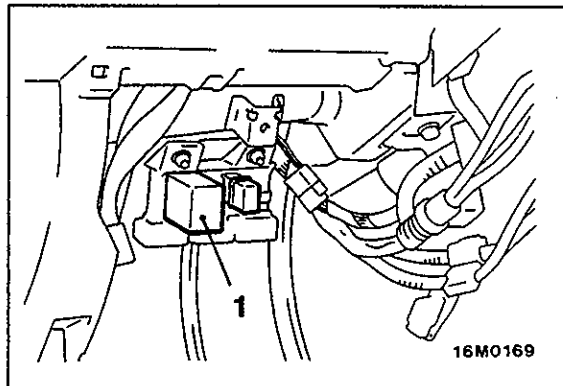
1. With the washer motor installed to the washer tank, fill the washer tank with water.
2. Check that the water squirts out strongly when battery voltage is applied to terminals (1) and (2).



REAR WIPER AND WASHER

51100850074

REMOVAL AND INSTALLATION



18M0046

00004558

1. Rear intermittent wiper relay

Wiper motor removal steps

- A◄
2. Tailgate trim
 3. Wiper arm and blade assembly
 4. Motor and bracket assembly
 5. Grommet

Washer hose removal steps

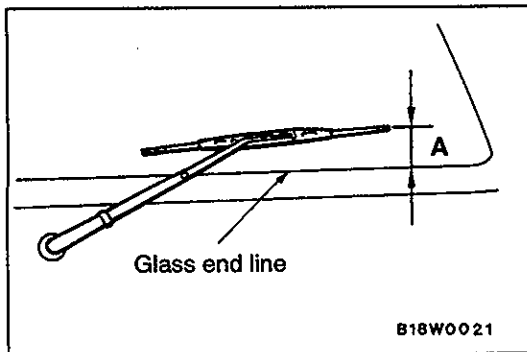
- Scuff plate, quarter trim and rear pillar trim (Refer to GROUP 52A – Trims.)
- Front seat (Refer to GROUP 52A – Front Seat.)

- Rear seat (Refer to GROUP 52A – Rear Seat.)

6. Tape
7. Washer nozzle
8. Washer hose

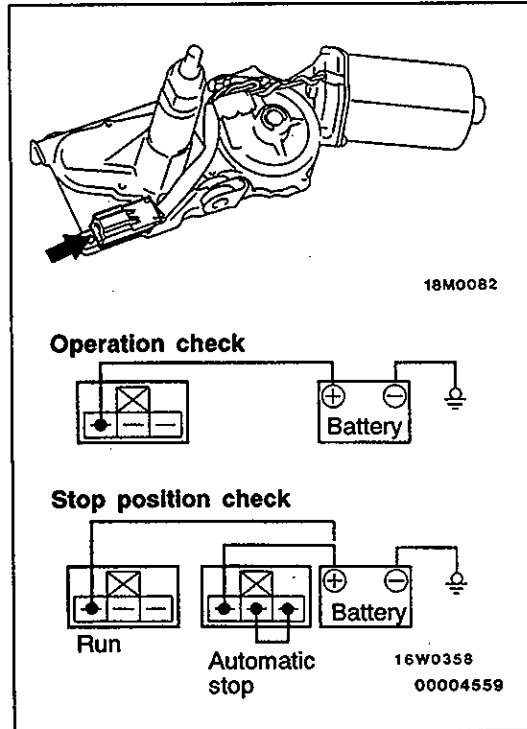
NOTE

- (1) For removal and installation of the washer tank, refer to P.51-13.
- (2) For removal and installation of the column switch assembly (windshield wiper and washer switch), refer to GROUP 37A – Steering Wheel and Shaft.

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

Install the wiper arm to the pivot shaft so that the wiper blade's stop position is the position (standard value) shown in the illustration.

Standard value (A): 77 ± 5 mm

**INSPECTION**

51101290042

WIPER MOTOR CHECK

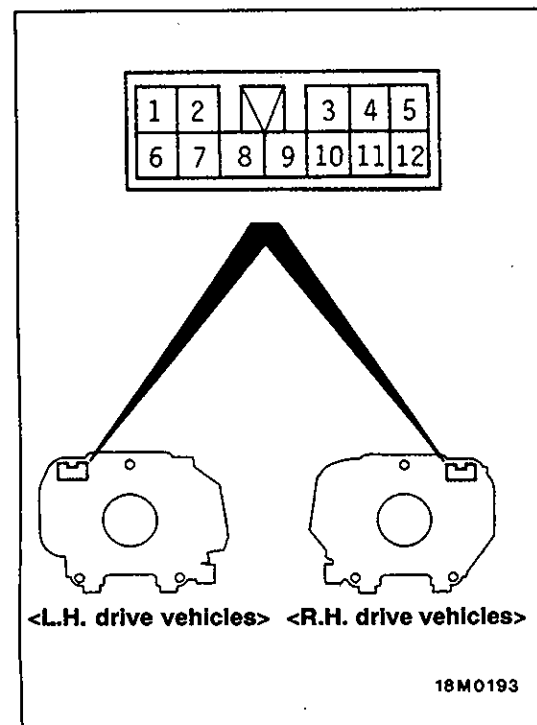
Check the wiper motor after first disconnecting the wiring harness connector, and with the wiper motor remaining installed to the body.

Wiper Motor Operation

Connect a battery to the wiper motor as shown in the illustration and inspect the motor operation.

Wiper Motor at Stop Position Operation

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

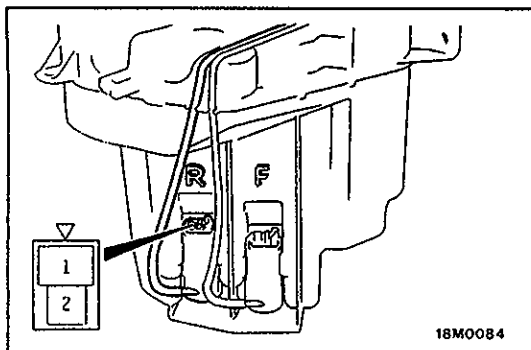
**COLUMN SWITCH (WIPER AND WASHER) CHECK**

51100950057

Switch position		Terminal No.			
		2	3	4	10, 8*
Wiper switch	INT		○		○
	ON			○	○
Washer switch	ON	○			○

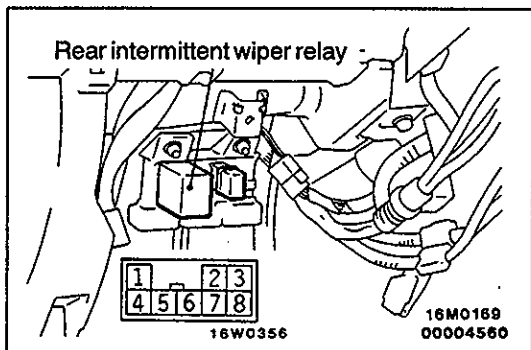
NOTE

*: R.H. drive vehicles

**WASHER MOTOR CHECK**

51101310045

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 washer squirts out strongly.

**INTERMITTENT WIPER RELAY CHECK**

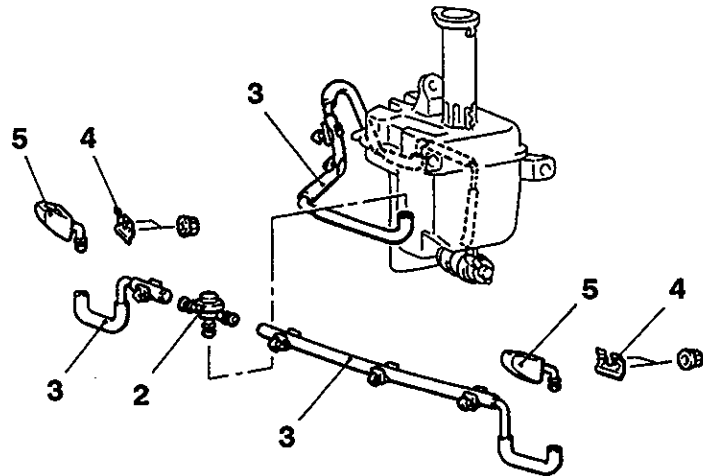
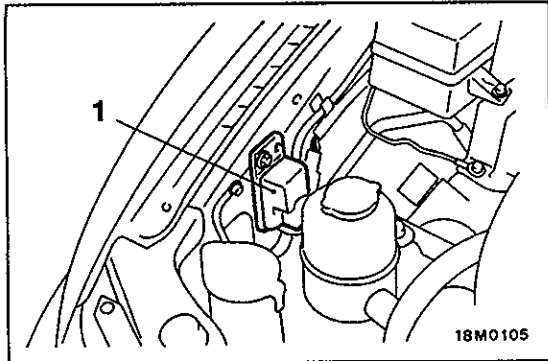
51101300028

1. Check to be sure that there is continuity between terminals (1) and (2).
2. Connect terminal (4), (5) to the battery (+) terminal.
3. Check that there is battery voltage at terminal (2) for intermittent periods of 8 seconds when terminal (7) is connected to the battery (-) terminal.

51100970060

HEADLAMP WASHER

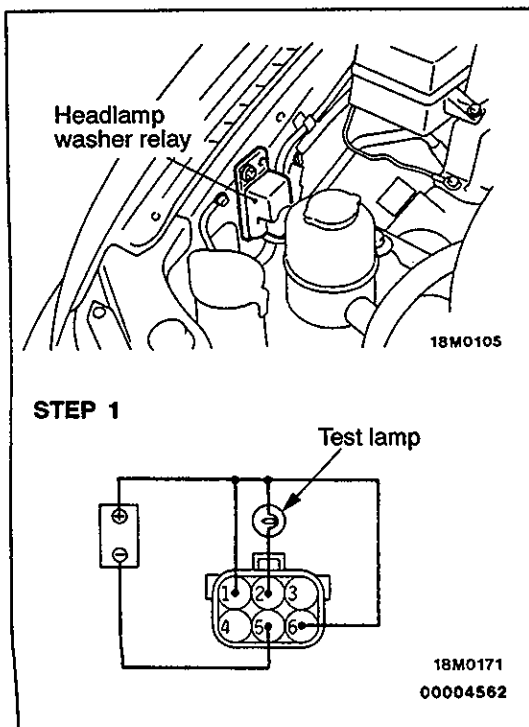
REMOVAL AND INSTALLATION



1. Headlamp washer relay
- Nozzle and check valve removal steps**
- Draining of washer fluid
 - Front bumper (Refer to P.51-3.)
2. Check valve
 3. Washer hose assembly
 4. Bracket
 5. Nozzle

NOTE

- (1) For removal and installation of the column switch assembly (built-in headlamp washer switch), refer to GROUP 37A – Steering Wheel and Shaft.
- (2) For removal and installation of the washer tank, refer to P.51-13.

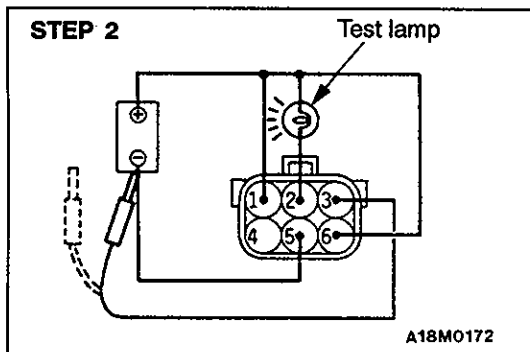


INSPECTION

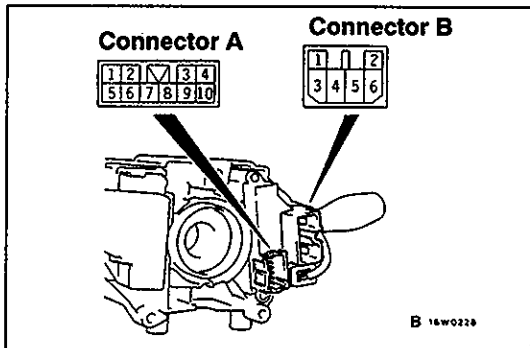
51101320031

HEADLAMP WASHER RELAY CHECK

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



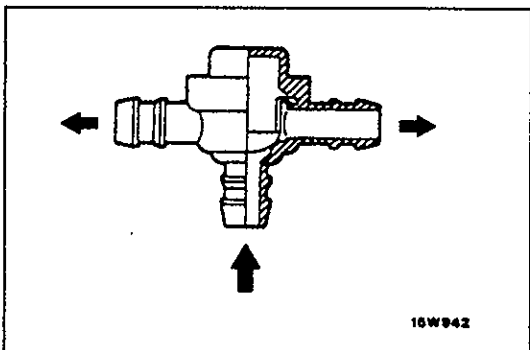
- The relay is normal if the lamp lights for approximately 0.5 second upon connection of terminal (2) to battery (-).



COLUMN SWITCH (HEADLAMP WASHER SWITCH) CHECK

51100980063

Check the continuity between terminal 2 of connector A and terminal 1 of connector B with headlamp washer switch in ON position.

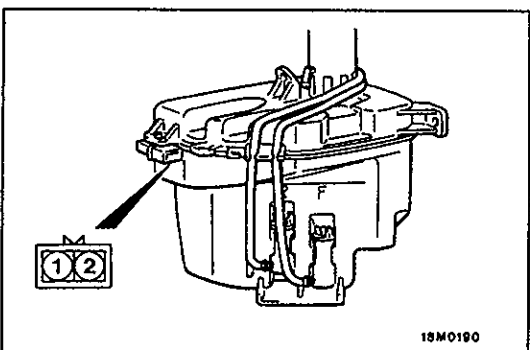


CHECK VALVE CHECK

51101330034

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

Opening pressure: 78 kPa



HEADLAMP WASHER MOTOR CHECK

51101340037

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

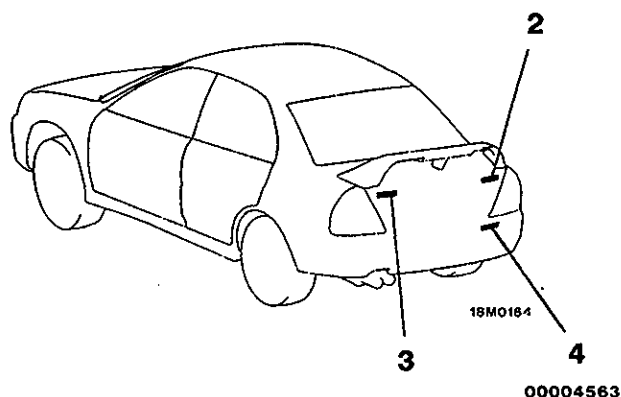
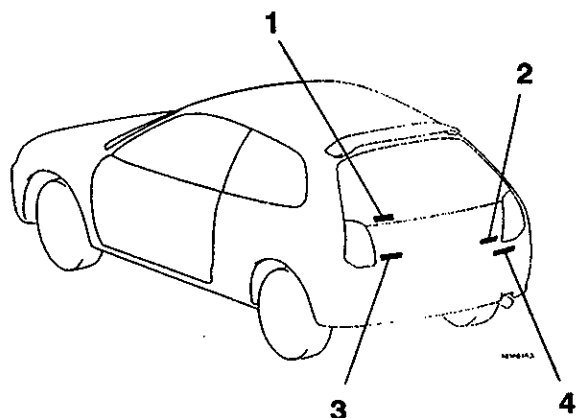
MARKS

51101180035

REMOVAL AND INSTALLATION

<Hatchback>

<Sedan>



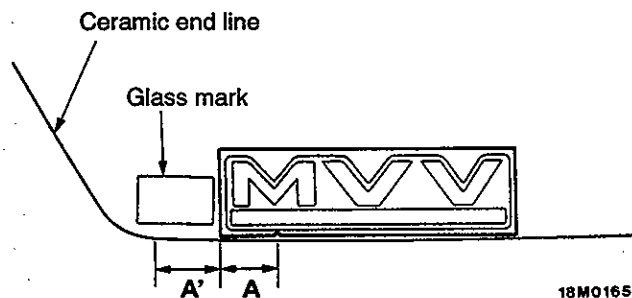
- | | |
|---|------------------------|
| ▲ | 1. MVV mark |
| ▲ | 2. COLT or LANCER mark |
| ▲ | 3. MITSUBISHI mark |
| ▲ | 4. GRADE mark |

INSTALLATION SERVICE POINT

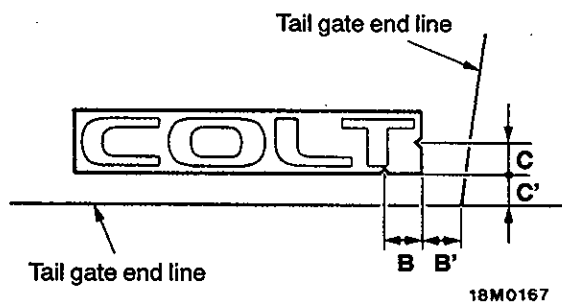
MARK INSTALLATION

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

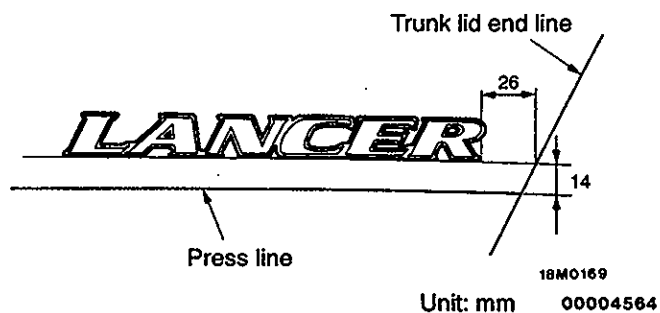
MVV MARK



COLT MARK



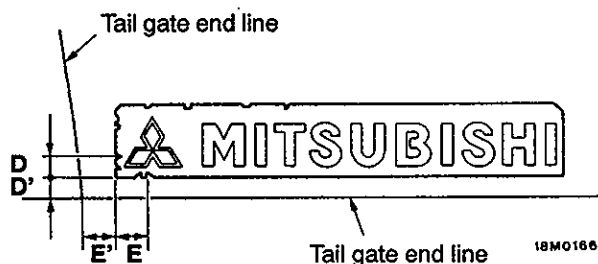
LANCER MARK



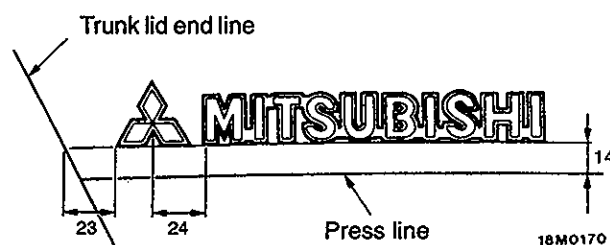
Unit: mm

MITSUBISHI MARK

<Hatchback>

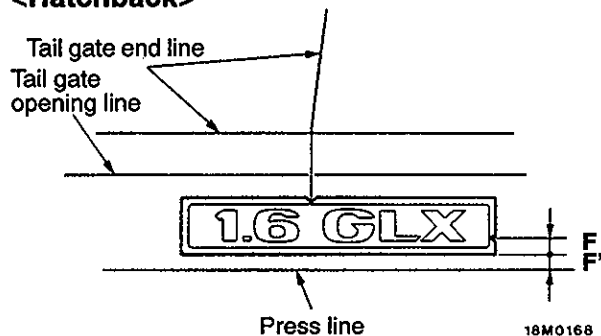


<Sedan>

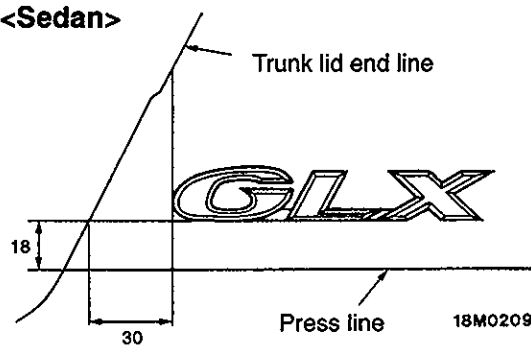


GRADE MARK

<Hatchback>



<Sedan>



NOTE

The installation dimensions of 1.6 GL and GL are the same as 1.6 GLX.

00004565

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

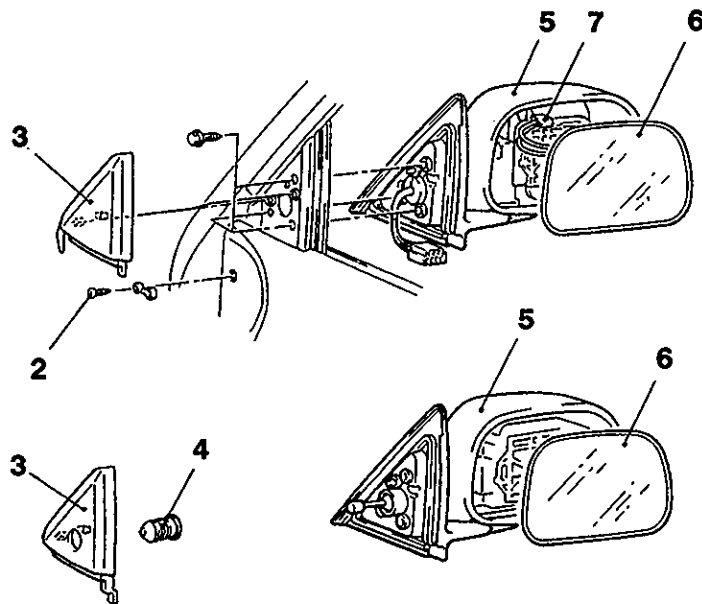
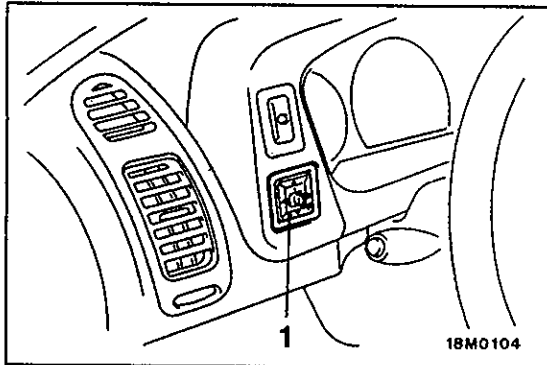
When attaching the marks, the surrounding temperature should be 20–38°C and the air should be completely free from dust.

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.

51100640039

DOOR MIRROR

REMOVAL AND INSTALLATION



1. Door mirror control switch

Door mirror removal steps

2. Door trim attaching screw

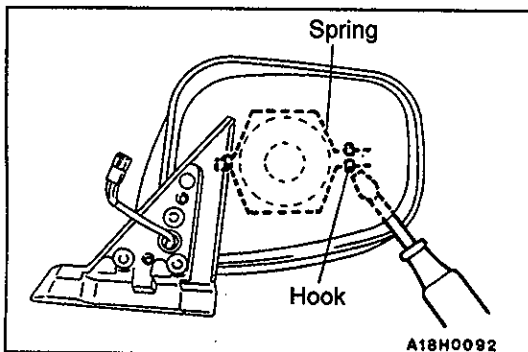
3. Delta cover inner

4. Boot

5. Door mirror

6. Mirror

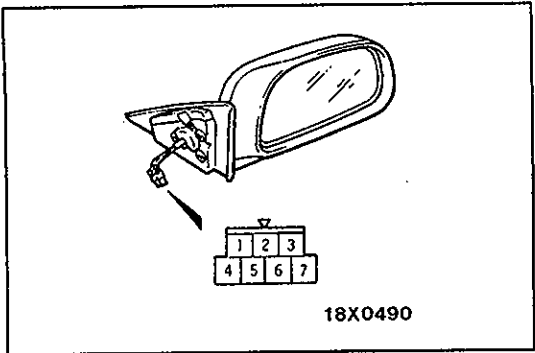
7. Harness connector



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.



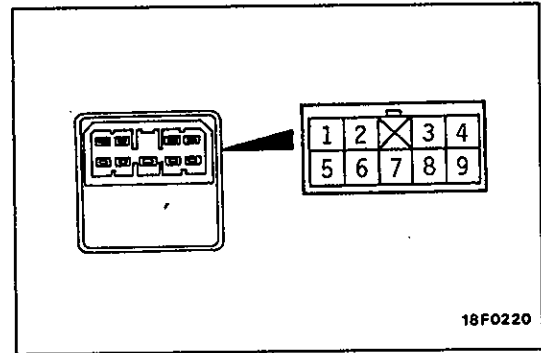
INSPECTION

51100650025

REMOTE CONTROL MIRROR ASSEMBLY CHECK

- (1) Check to be sure that the mirror moves as described in the table when each terminal is connected to the battery.
- (2) Check if there is continuity between terminals (1) and (2).

Battery connection terminal					Direction of operation
5	6	7	1	4	
⊖		⊕			UP
⊕		⊖			DOWN
⊕	⊖				RIGHT
⊖	⊕				LEFT



DOOR MIRROR CONTROL SWITCH CONTINUITY CHECK

51101350023

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

SWITCH AND RELAY OF DOOR MIRROR PRINTED HEATING WIRE CHECK

51101360019

The printed heating wire of the door mirror operates in conjunction with the rear window defogger. The switch and relay are used for the rear window defogger also, so refer to GROUP 54 for inspection service points.