
EXTERIOR

CONTENTS

51109000210

SERVICE SPECIFICATIONS	2	MOULDINGS	8
SEALANT AND ADHESIVE	2	AERO PARTS	11
SPECIAL TOOLS	2	WINDSHIELD WIPER AND WASHER	12
FRONT BUMPER	3	REAR WIPER AND WASHER	15
REAR BUMPER	5	HEADLAMP WASHER	18
RADIATOR GRILLE	7	MARKS	20
ROOF RAIL	7	DOOR MIRROR	22



SERVICE SPECIFICATIONS

51100030195

Items		Standard value
Windshield wiper blade installation position mm	Driver's side	35 ±5
	Passenger's side	20±5
Rear wiper blade installation position mm		15±5

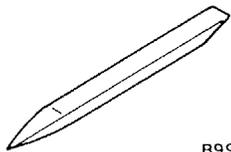
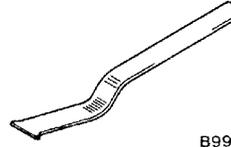
SEALANT AND ADHESIVE

51100050177

Items	Specified sealant and adhesive
Side protect moulding to body panel	Adhesive tape: double-sided tape <(10 mm width and 0.8 mm thickness>)
Side sill cover to body panel	Adhesive tape: double-sided tape (5 mm width and 0.8 mm thickness)

SPECIAL TOOLS

51100060071

Tool	Number	Name	Use
 B990784	MB990784	Ornament remover	Removal of bumper mounting clips (front and rear) and door mirror control switch
 B990449	MB990449	Window moulding remover	Removal of roof drip moulding, etc.

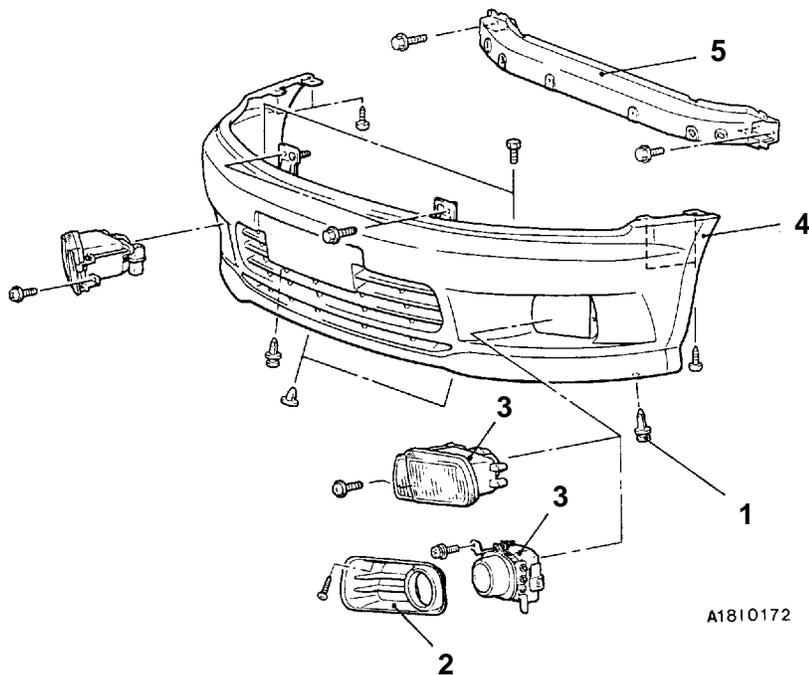
FRONT BUMPER

51100140201

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

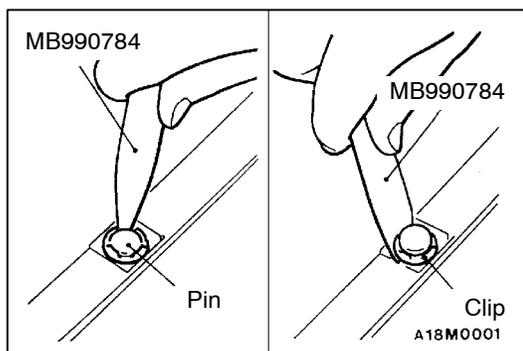
- Splash Shield Removal and Installation (Refer to GROUP 42 - Fender.)
- Radiator Grille Removal and Installation (Refer to P.51-7.)

**Removal Steps**

1. Fog lamp bezel
2. Fog lamp
3. Clip
4. Front bumper assembly
5. Front bumper reinforcement assembly

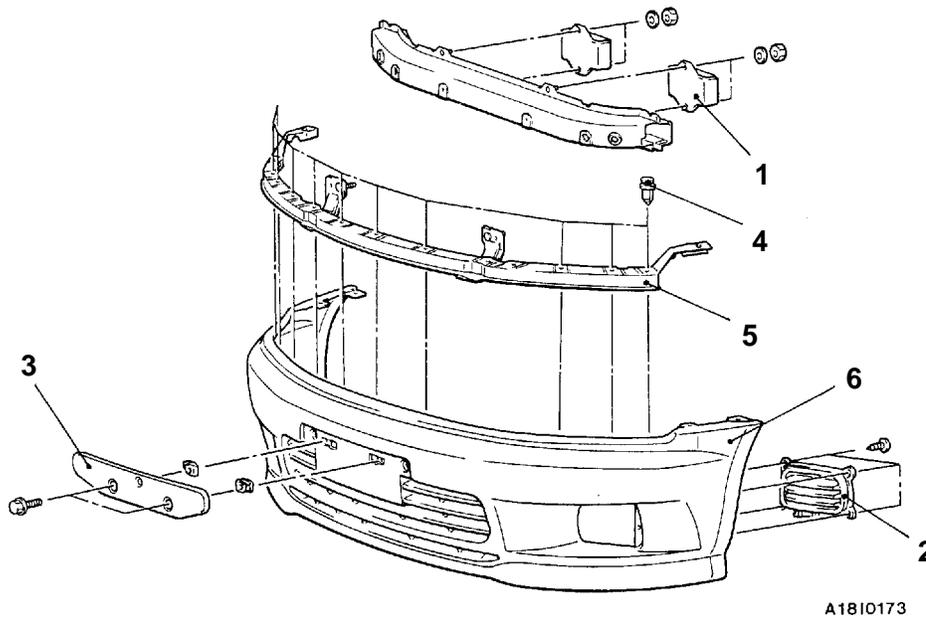
**DISASSEMBLY SERVICE POINT****◀A▶ CLIP REMOVAL**

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



DISASSEMBLY AND REASSEMBLY

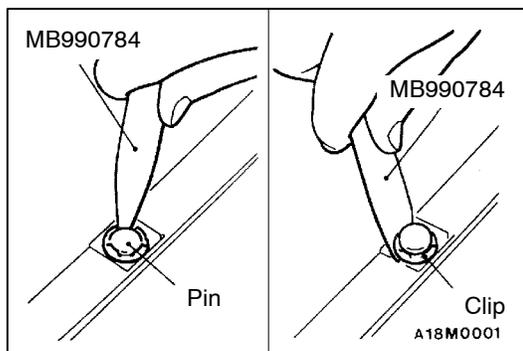
51100160238

**Disassembly steps**

1. Dynamic damper assembly <except vehicles with 6A1 engine>
2. Fog lamp hole cover
3. Licence plate bracket



4. Clip
5. Front bumper upper reinforcement
6. Front bumper face

**DISASSEMBLY SERVICE POINT**
CLIP REMOVAL

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

REAR BUMPER

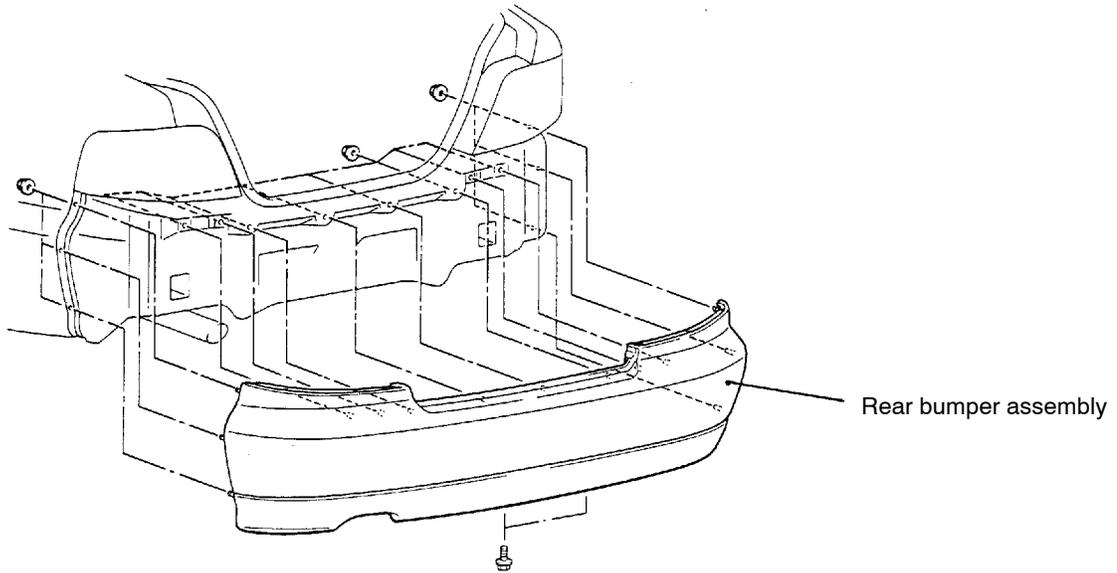
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REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

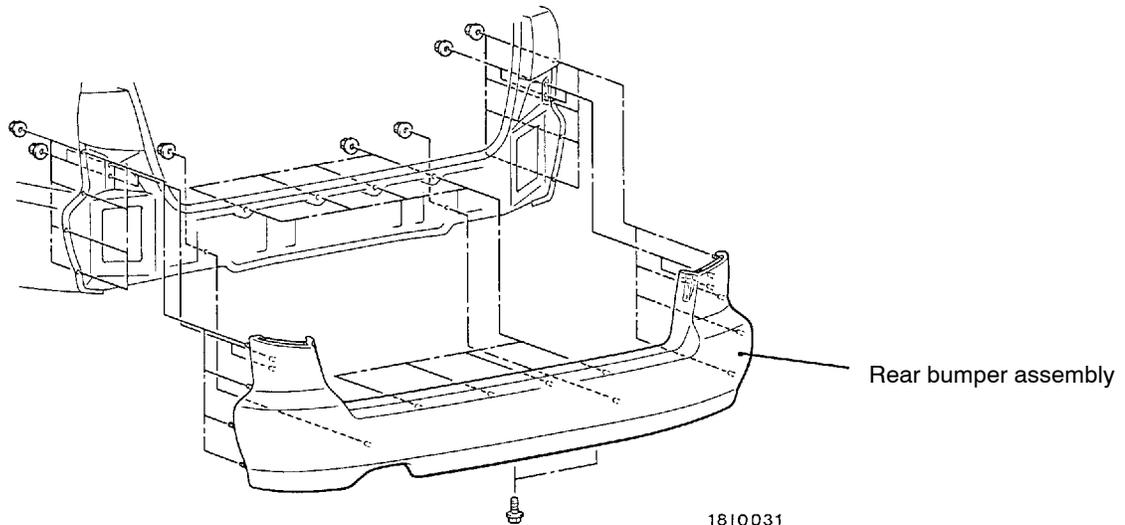
- Trunk Rear Trim (side, centre), Side Tray Removal and Installation <Sedan> (Refer to GROUP 52A - Trims.)
- Quarter Lower Trim Removal and Installation <Wagon> (Refer to GROUP 52A - Trims.)
- Lower Tailgate Damper Removal and Installation <Wagon> (Refer to GROUP 42 - Tailgate.)

<Sedan>



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<Wagon>



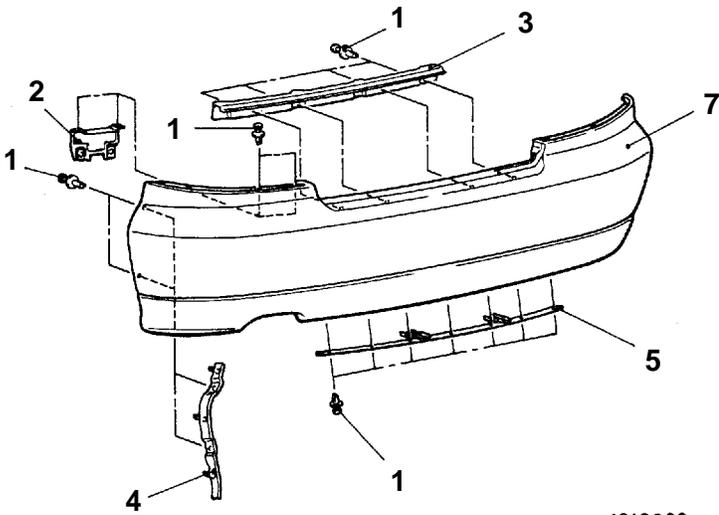
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DISASSEMBLY AND REASSEMBLY

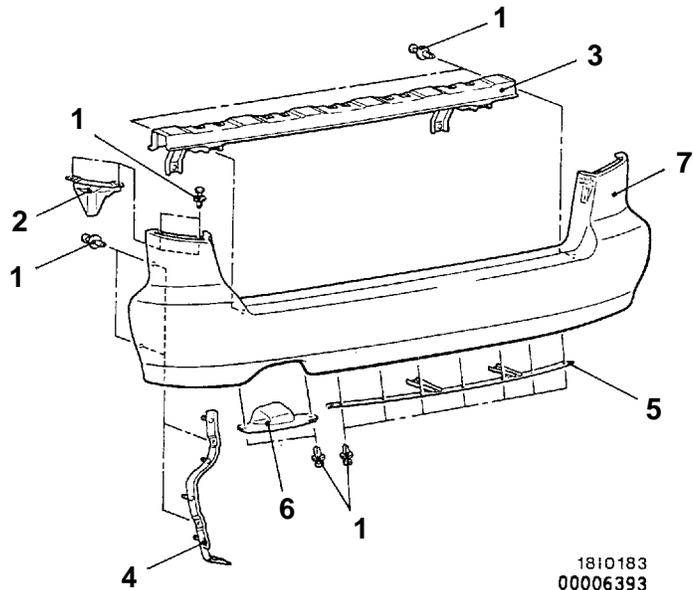
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<Sedan>



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<Wagon>



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00006393

Disassembly steps



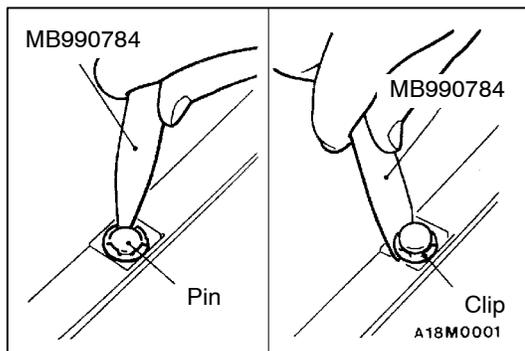
1. Clip
2. Side upper bracket
3. Rear bumper reinforcement
4. Side retainer

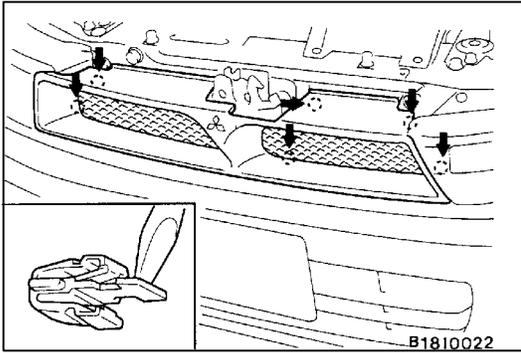
5. Rear bumper lower plate
6. Muller cutter cover
7. Rear bumper face

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

51100280026

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.

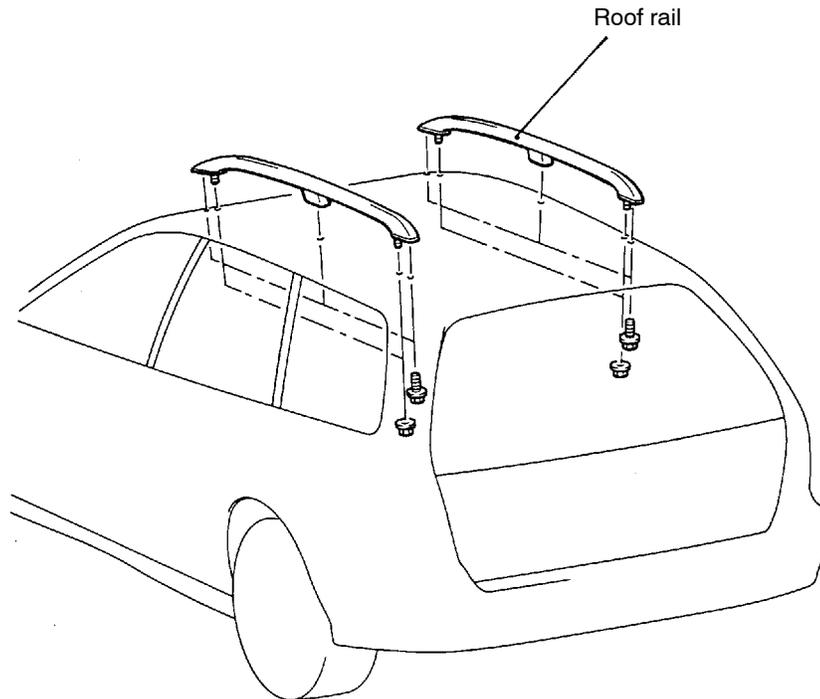
ROOF RAIL

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REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

- Headlining Removal and Installation



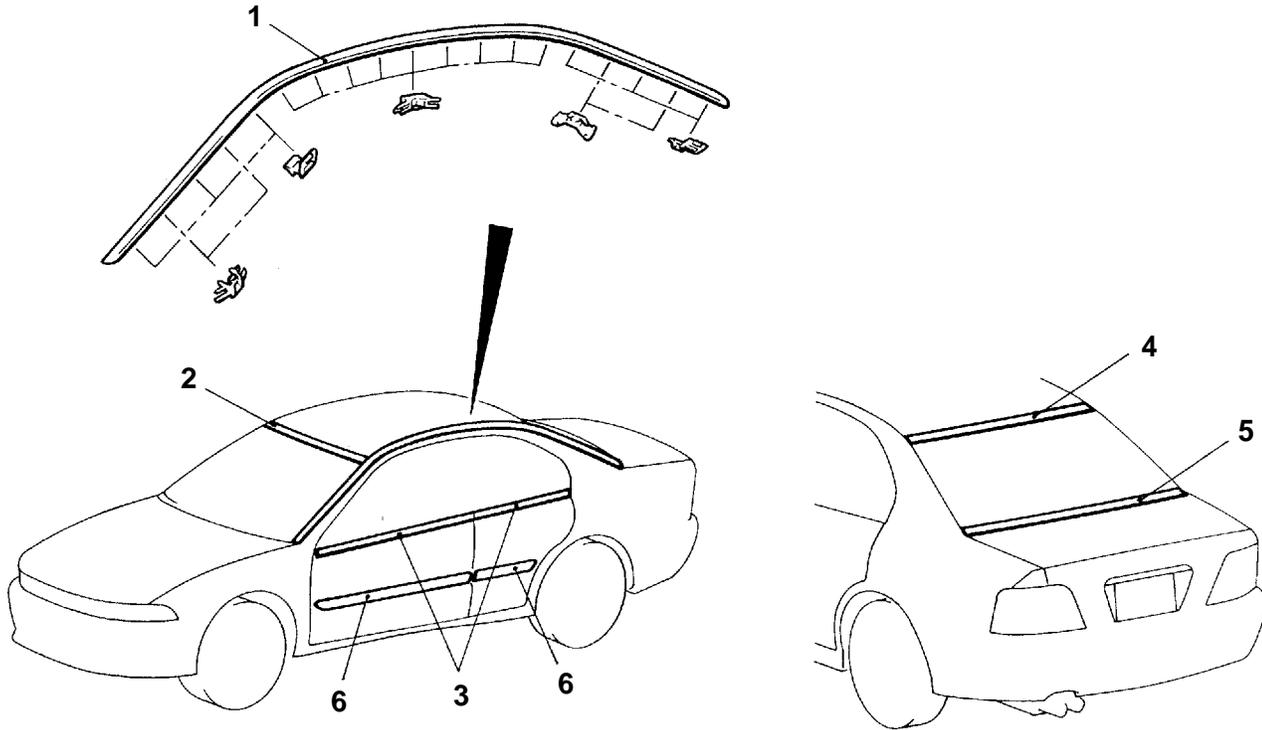
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MOULDINGS

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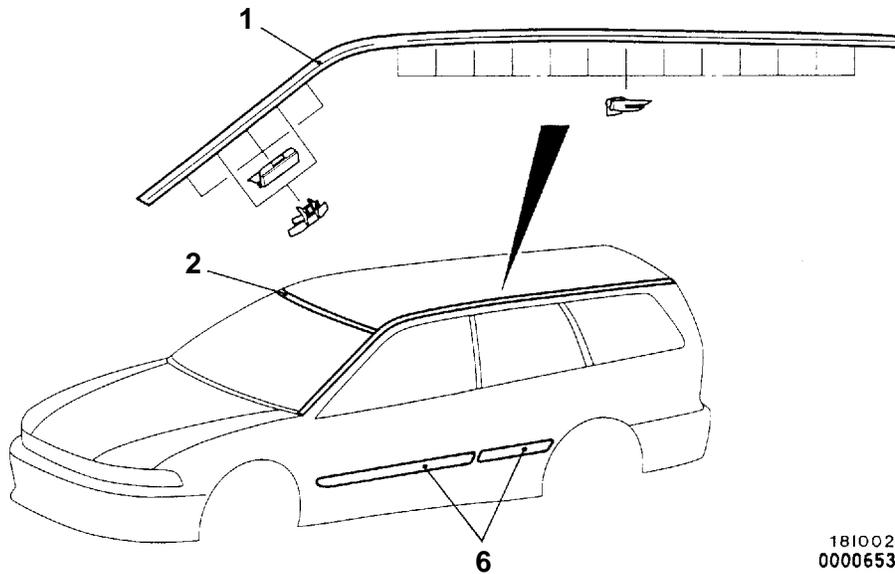
REMOVAL AND INSTALLATION

<Sedan>



<Wagon>

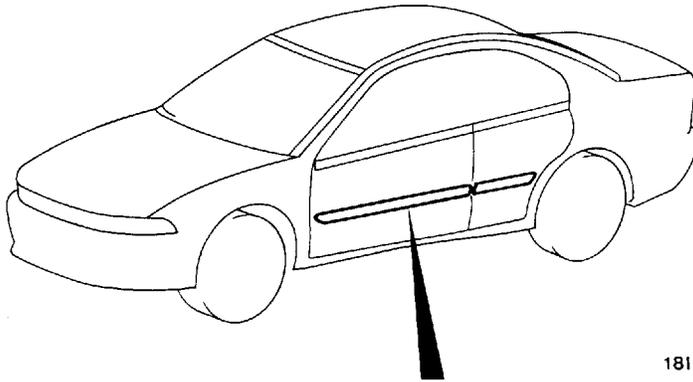
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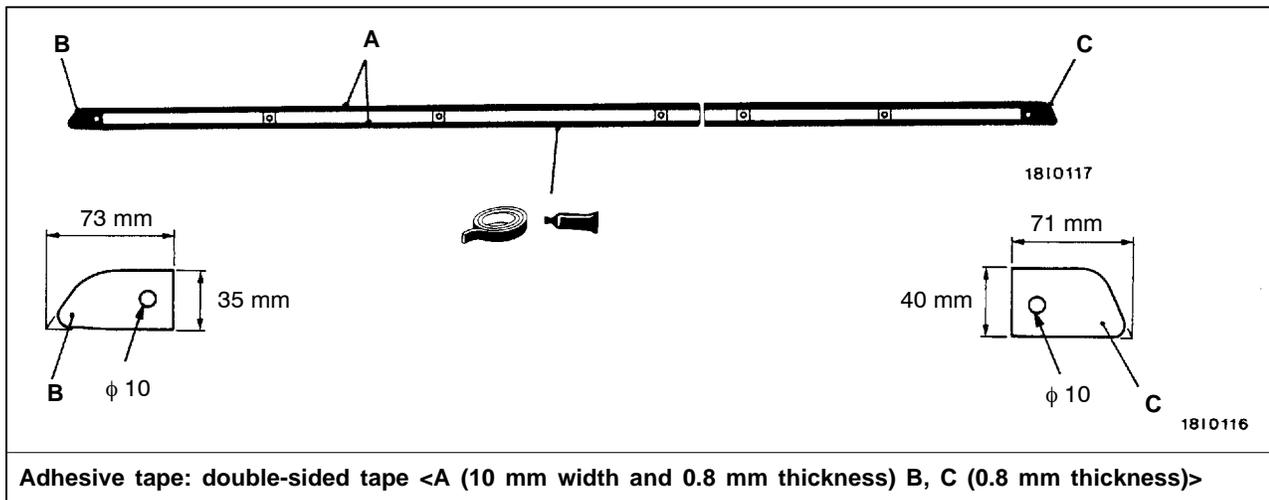
- ◀A▶ ▶A◀
1. Roof drip moulding
 2. Windshield upper moulding (Refer to GROUP 42 - Windshield.)
 3. Belt line moulding (Refer to GROUP 42.)

- ◀B▶ ▶B◀
4. Rear window moulding, upper (Refer to GROUP 42 - Rear Window Glass.)
 5. Rear window moulding, lower (Refer to GROUP 42 - Rear Window Glass.)
 6. Side protect moulding

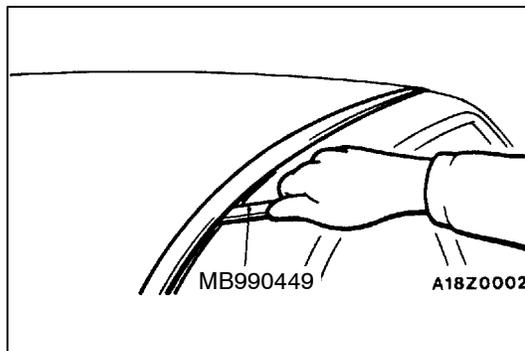


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Adhesive tape: double-sided tape <A (10 mm width and 0.8 mm thickness) B, C (0.8 mm thickness)>



MB990449

A18Z0002

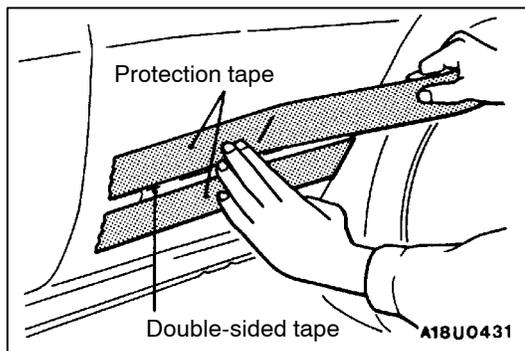
REMOVAL SERVICE POINT

◀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.



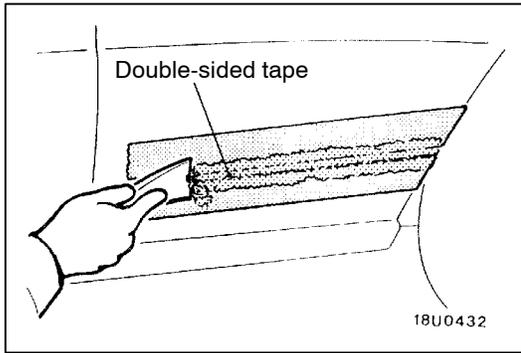
Protection tape

Double-sided tape

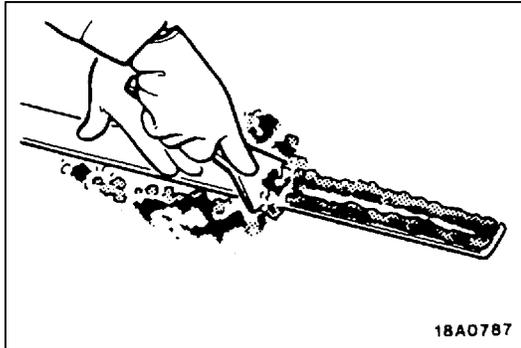
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◀B▶ SIDE PROTECT MOULDING REMOVAL

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

►B◄ SIDE PROTECT MOULDING INSTALLATION

Double-sided tape affixing to the side protect moulding (when reusing)

1. Scrape off the double-sided tape with a resin spatula or gasket scraper.

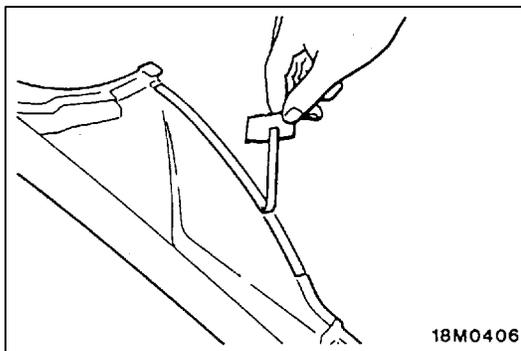
2. Wipe off the side protect moulding adhesion surface and clean it with a shop towel moistened with isopropyl alcohol.
3. Affix the specified double sided tape to the side protect moulding.

Specified adhesive tape:

Double-sided tape

A: 10 mm width and 0.8 mm thickness

B, C: 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 side protect moulding.

NOTE

If it is hard to affix the double-sided tape in winter, heat the application surfaces at both the vehicle body and the side protect moulding.

Body 40-60°C

Side protect moulding 20 - 30 °C

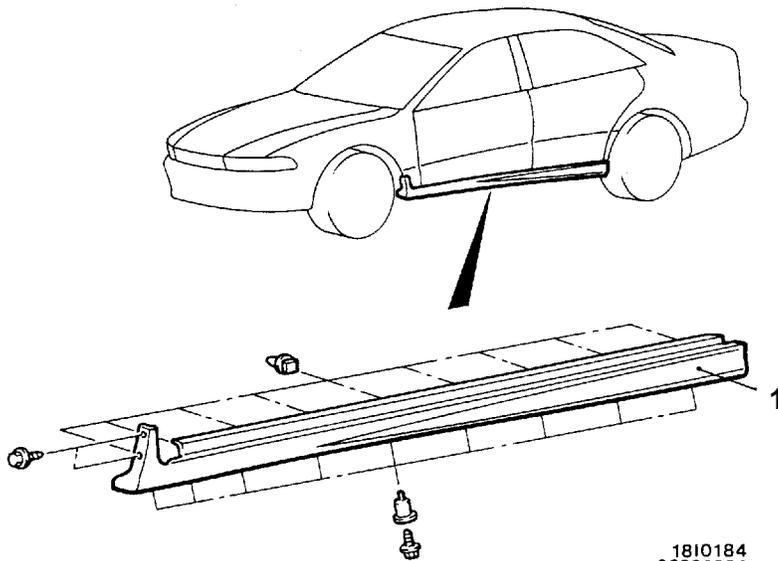
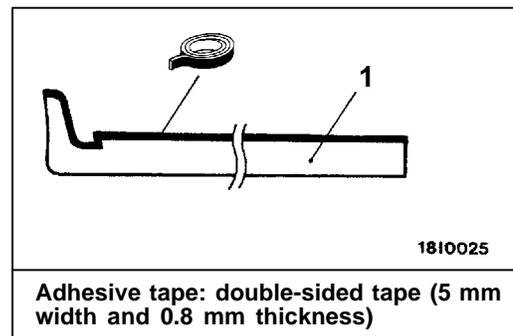
Apply pressure fully to the side protect moulding.

▶A◀ ROOF DRIP MOULDING INSTALLATION

Install the clip to the roof drip moulding before installing the moulding to the vehicle body.

AERO PARTS

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REMOVAL AND INSTALLATION1810184
00006394

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Adhesive tape: double-sided tape (5 mm width and 0.8 mm thickness)

◀A▶ ▶A◀ 1. Side sill cover

REMOVAL SERVICE POINT**◀A▶ SIDE SILL COVER REMOVAL**

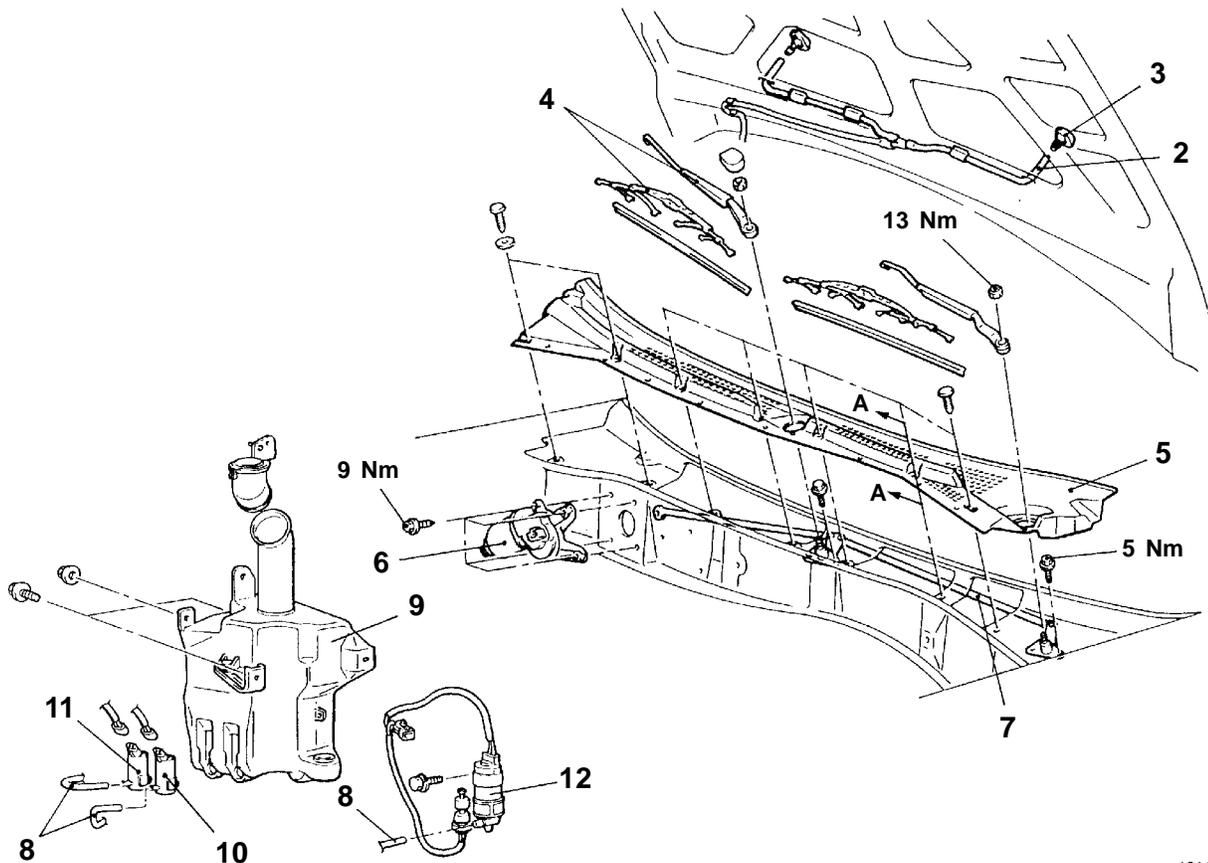
Remove the side sill cover in the same manner as for the side protect moulding (Refer to P.51-8).

INSTALLATION SERVICE POINT**▶A◀ SIDE SILL COVER INSTALLATION**

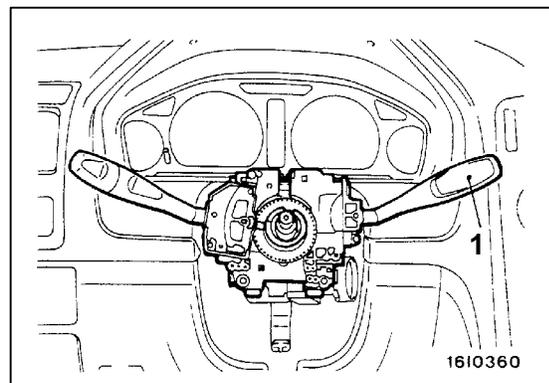
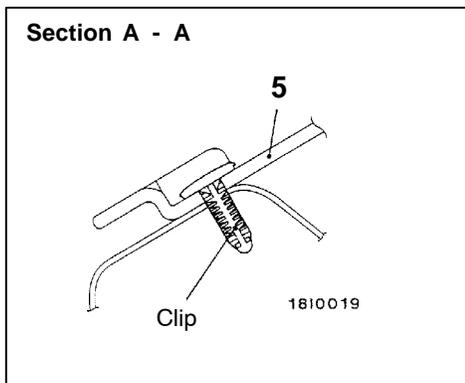
Install the side sill cover in the same manner as for the side protect moulding (Refer to P.51-8).

WINDSHIELD WIPER AND WASHER

REMOVAL AND INSTALLATION



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1. Column switch assembly
(Refer to GROUP 37A.)
2. Washer hose
3. Washer nozzle assembly

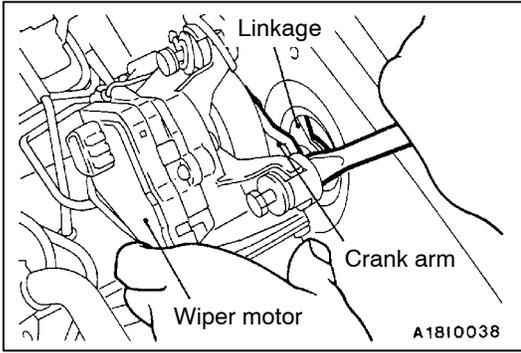
Wiper motor and linkage removal steps

- ▶◀ A ▶
4. Wiper arm and blade assembly
 5. Front deck garnish
 6. Wiper motor
 7. Linkage

Washer tank removal steps

- Draining washer fluid
- Front bumper (Refer to P.51-3.)
- 8. Washer hose
- 9. Washer tank
- 10. Washer motor (front)
- 11. Washer motor (rear)
- 12. Washer motor <vehicles with headlamp washer>





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

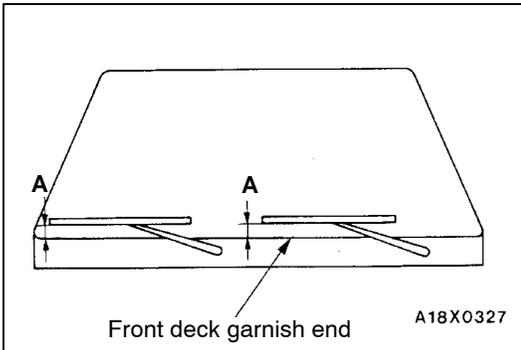
▶A◀ WIPER ARM AND BLADE ASSEMBLY INSTALLATION

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

Standard value (A):

<Driver's side> 35 ± 5 mm

<Passenger's side> 20 ± 5 mm



INSPECTION

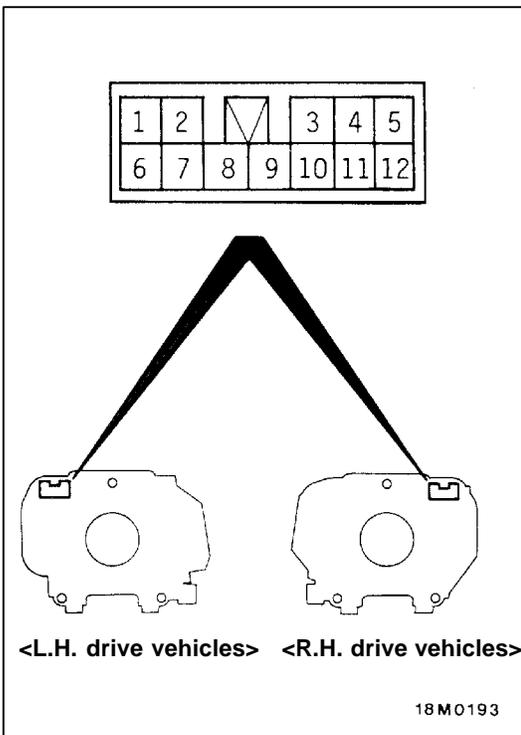
51101450044

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	○				○

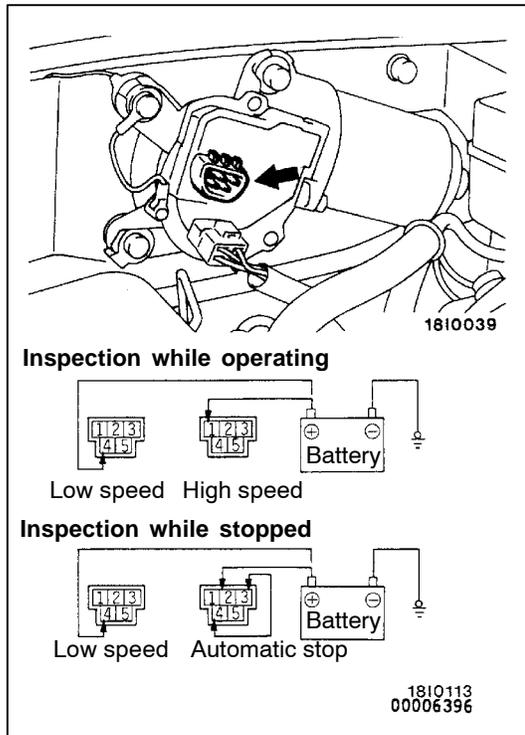
Intermittent Wiper Relay (Intermittent Operation Inspection)

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

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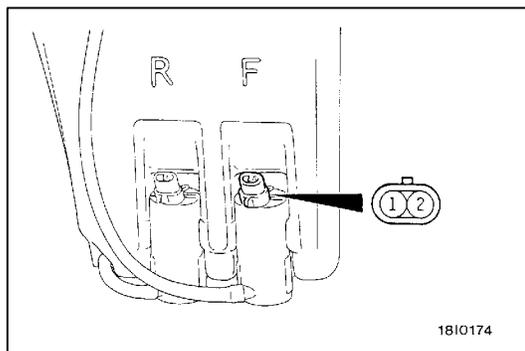
Check the wiper motor after disconnecting the wiring harness connector, and with the wiper motor remaining installed to the body.

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, it stops at the automatic stop position.



WASHER MOTOR CHECK

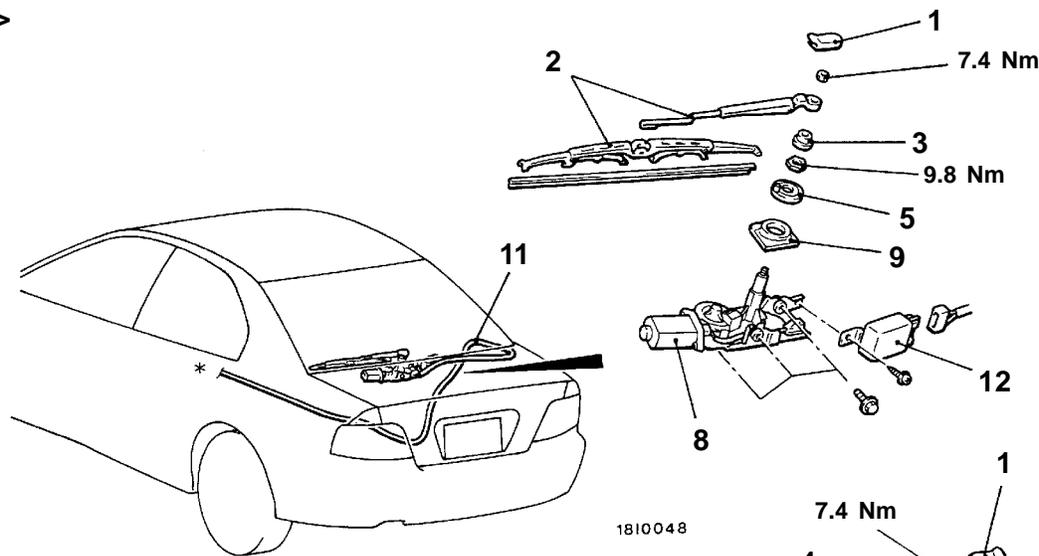
51101270107

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).

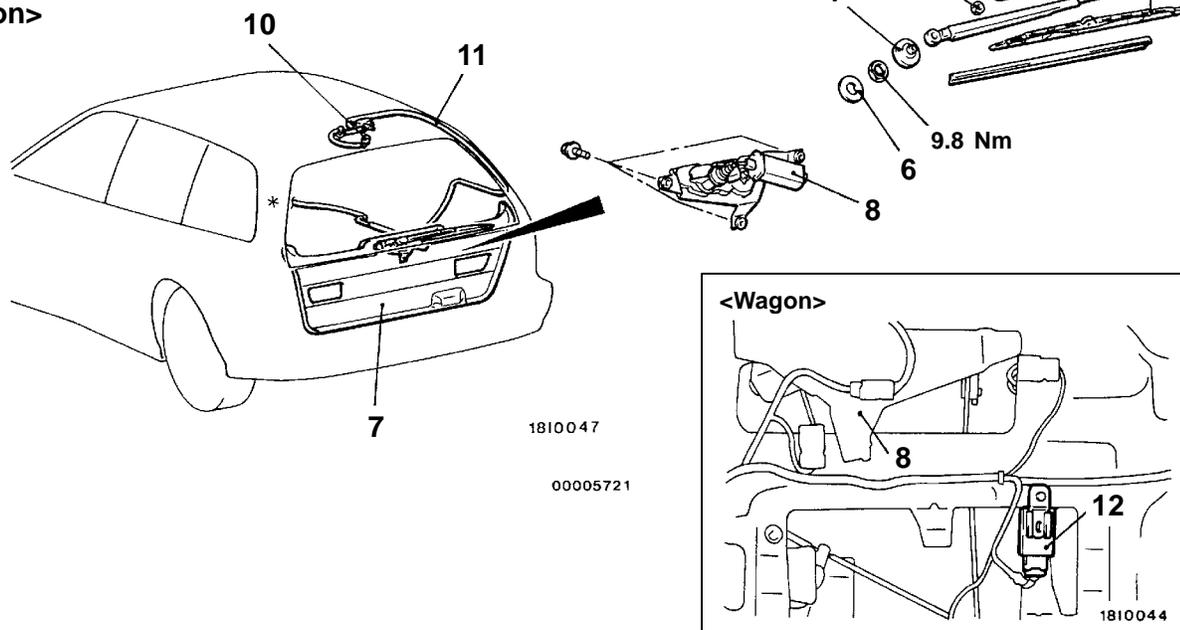
REAR WIPER AND WASHER

REMOVAL AND INSTALLATION

<Sedan>



<Wagon>



Wiper motor assembly removal steps

1. Cover
2. Wiper arm and blade assembly
3. Shield cap
4. Cover
5. Nozzle collar assembly
6. Packing and washer <Wagon>
7. Tailgate trim (Refer to group 42.)
8. Wiper motor and bracket assembly
9. Packing and washer <Sedan>

Rear washer hose removal steps

- Scuff plate, quarter trim, quarter upper trim, beltline trim (Refer to GROUP 52A.)
 - Front seat, rear seat (Refer to GROUP 52A.)
10. Washer nozzle
 11. Washer hose

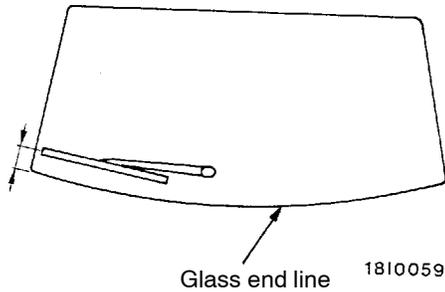
Rear intermittent wiper relay removal

7. Tailgate trim (Refer to GROUP 42.)
12. Rear intermittent wiper relay

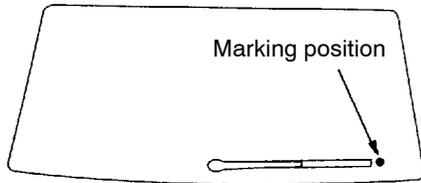
NOTE

1. *: For washer tank (Refer to P.51-12.)
2. For removal and installation of the column switch assembly (windshield wiper and washer switch), refer to GROUP 37A - Steering Wheel and Shaft.}

<Sedan>



<Wagon>

1810020
00005723**INSTALLATION SERVICE POINT****▶A◀ WIPER ARM AND BLADE ASSEMBLY
INSTALLATION**

<Sedan>

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): 15 ± 5 mm

<Wagon>

Install the wiper arm by aligning the blade with the marking position.

INSPECTION

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WIPER MOTOR CHECK

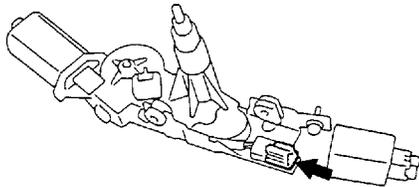
Check the wiper motor after first disconnecting the wiring harness connector, and with the wiper motor remaining installed to the body.

Wiper Motor Operation

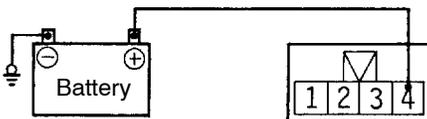
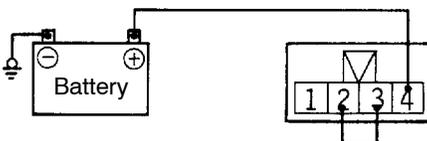
Connect a battery to the wiper motor as shown in the illustration and inspect the motor operation.

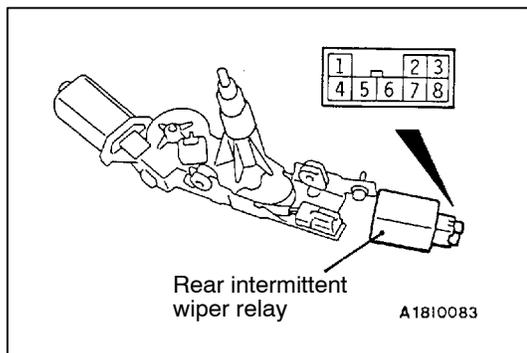
Wiper Motor at Stop Position Operation

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.



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Operation check**Stop position check**1810045
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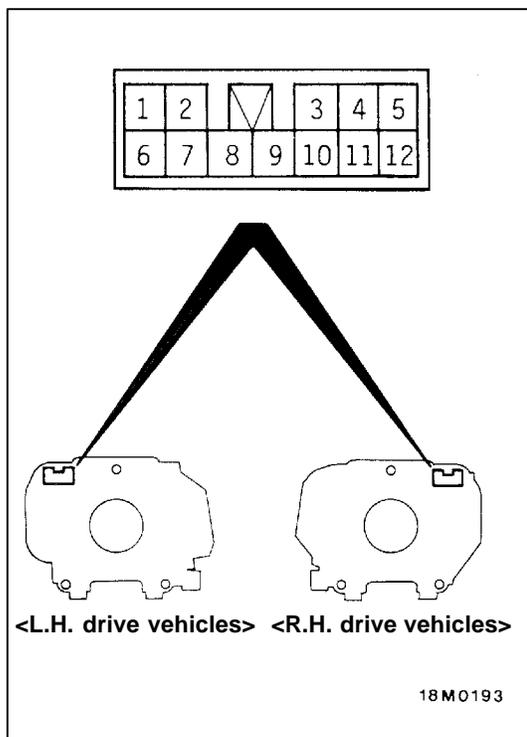
REAR INTERMITTENT WIPER RELAY CHECK

51101300066

1. Apply battery voltage to terminal 4, and earth the terminal 7.
2. Measure voltage according to the table below.

Measurement requirement	Terminal number 2
Apply battery voltage to terminal 6.	Battery voltage
Apply battery voltage to terminal 5.	Battery voltage generates every approx. eight seconds.
Apply battery voltage to terminal 8.	Battery voltage generates after approx. one second.

3. Check that there is continuity between terminals 1 and 2.



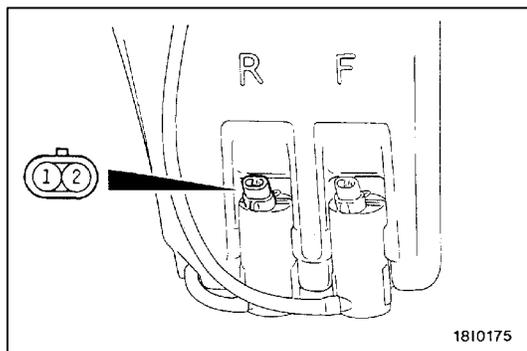
COLUMN SWITCH (WIPER AND WASHER) CHECK

51100950057

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

NOTE

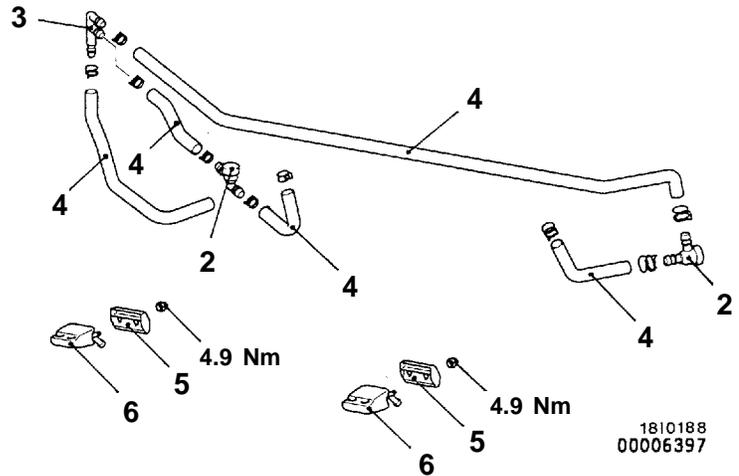
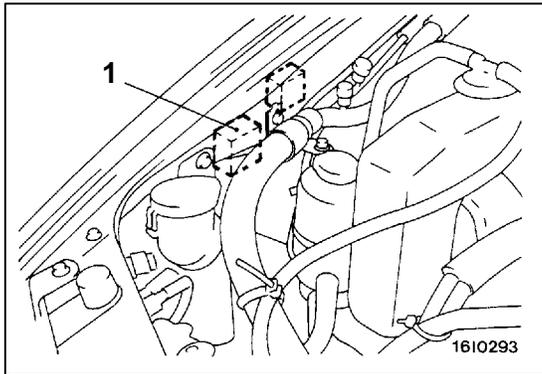
*: R.H. drive vehicles



WASHER MOTOR CHECK

51101310083

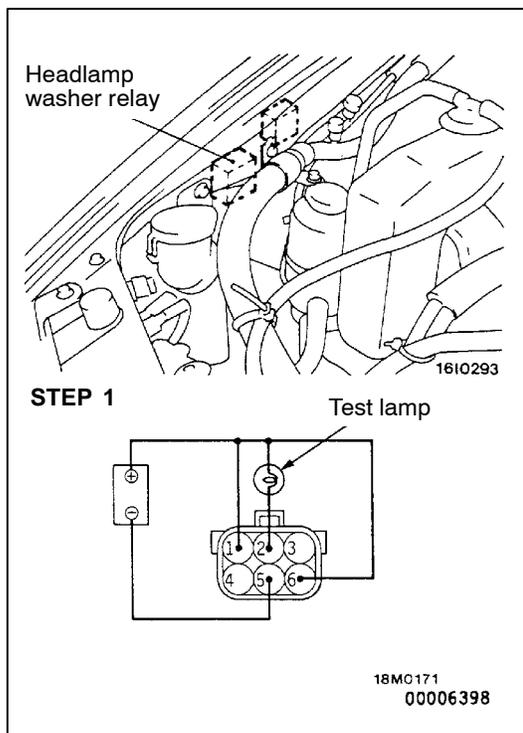
1. With the washer motor installed to the washer tank, fill the washer tank with water.
2. Check that washer fluid sprays strongly when battery voltage is applied to terminal 2 and terminal 1 is earthed.

HEADLAMP WASHER**REMOVAL AND INSTALLATION**

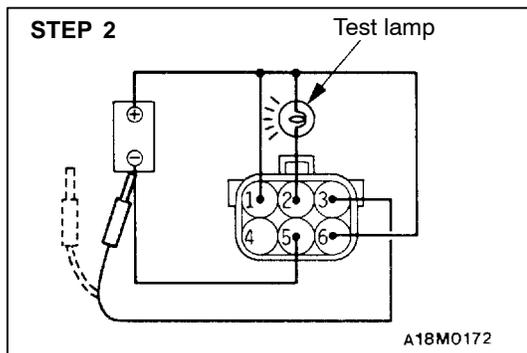
1. Headlamp washer relay
Nozzle, check valve and joint removal steps
- Draining of washer fluid
 - Front bumper (Refer to P.51-3.)
2. Check valve
 3. Joint
 4. Washer hose assembly
 5. Collar
 6. Nozzle

NOTE

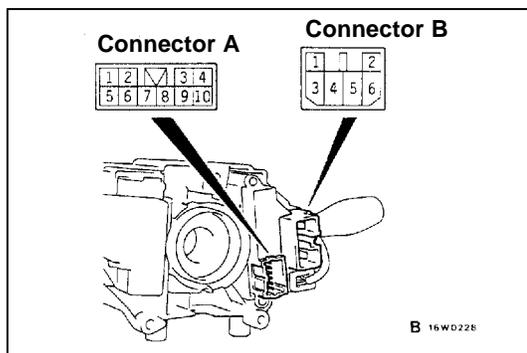
1. For removal and installation of the column switch assembly (built-in headlamp washer switch), refer to GROUP 37A - Steering Wheel and Shaft.
2. For removal and installation of the washer tank, refer to P.51-12.

**INSPECTION****HEADLAMP WASHER RELAY CHECK**

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



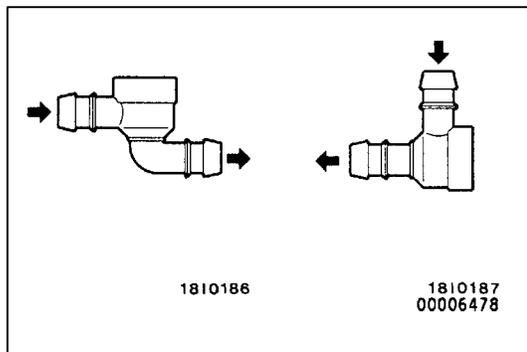
2. The relay is normal if the lamp lights for approximately 0.5 second upon connection of terminal (2) to battery (-).



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.

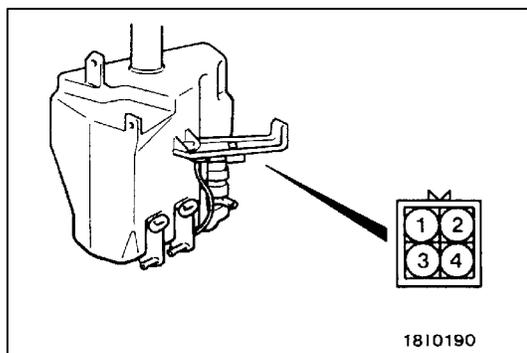


CHECK VALVE CHECK

51101330058

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

Opening pressure: 78 kPa



HEADLAMP WASHER MOTOR CHECK

51101340051

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.

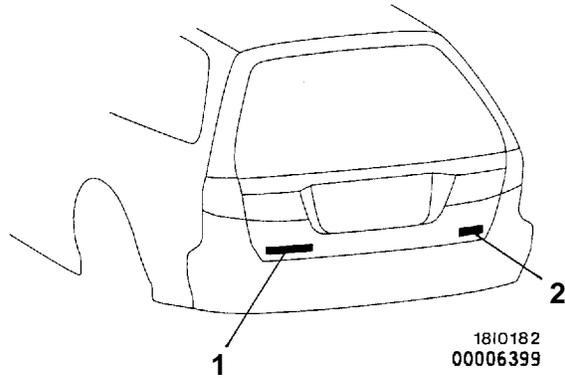
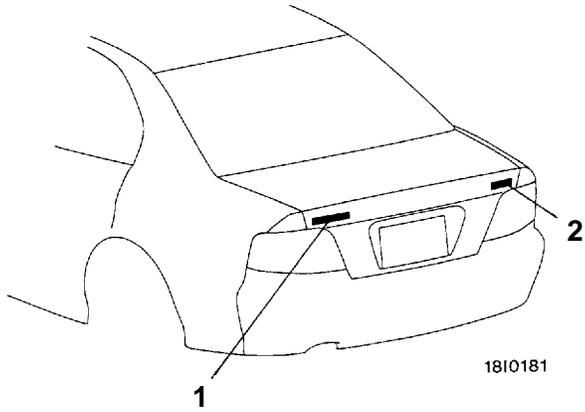
MARKS

51101180110

REMOVAL AND INSTALLATION

<Sedan>

<Wagon>



- ▶A◀ 1. "Mitsubishi" mark
- ▶A◀ 2. Grade mark

INSTALLATION SERVICE POINT

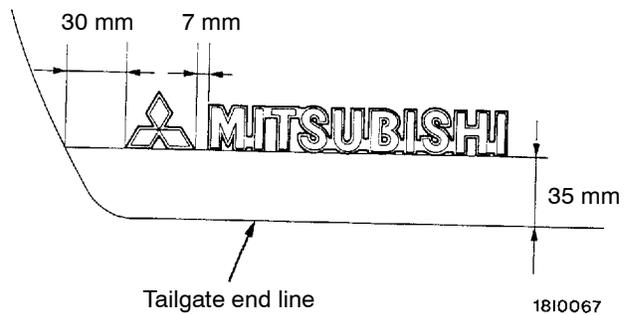
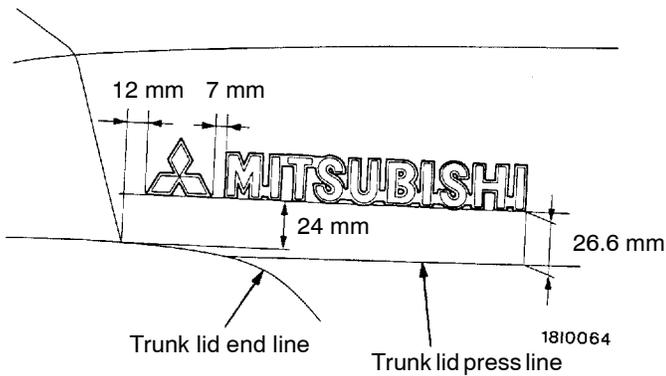
▶A◀ **INSTALLATION OF MARKS**

1. APPLICATION POSITION

"MITSUBISHI" mark

<Sedan>

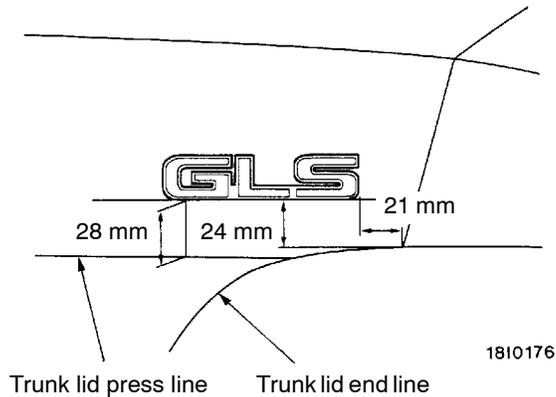
<Wagon>



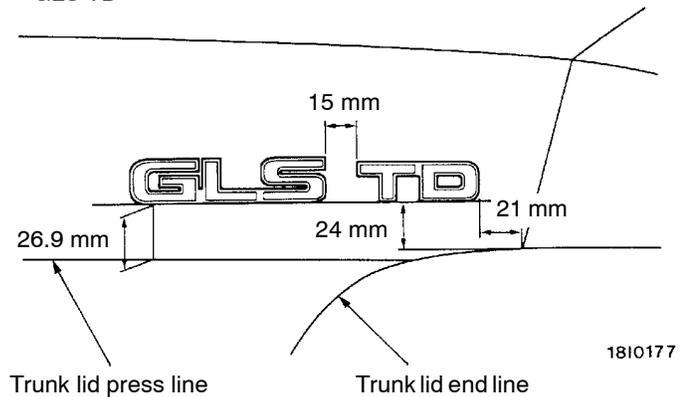
00005733

Grade mark**<Sedan>**

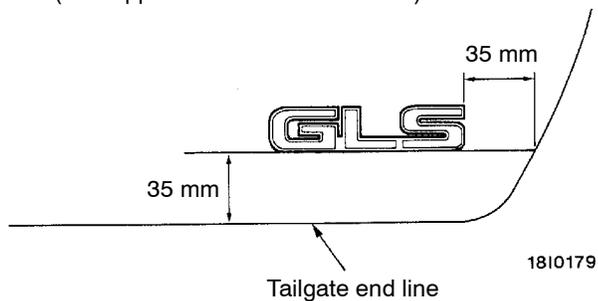
GLS (also applicable to GLX and V6-24)



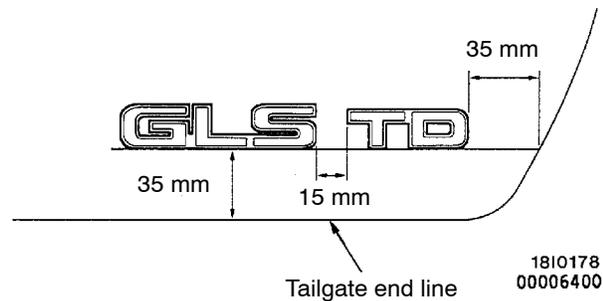
GLS TD

**<Wagon>**

GLS (also applicable to GLX and V6-24)



GLS TD

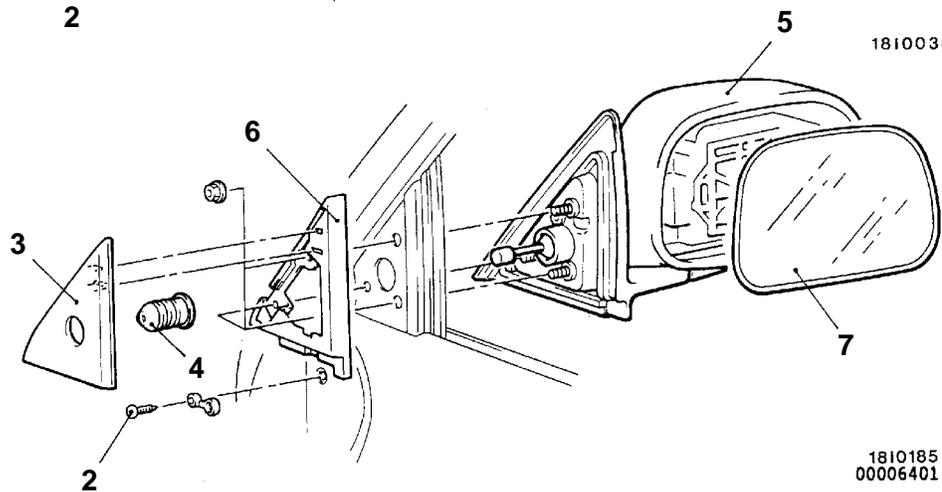
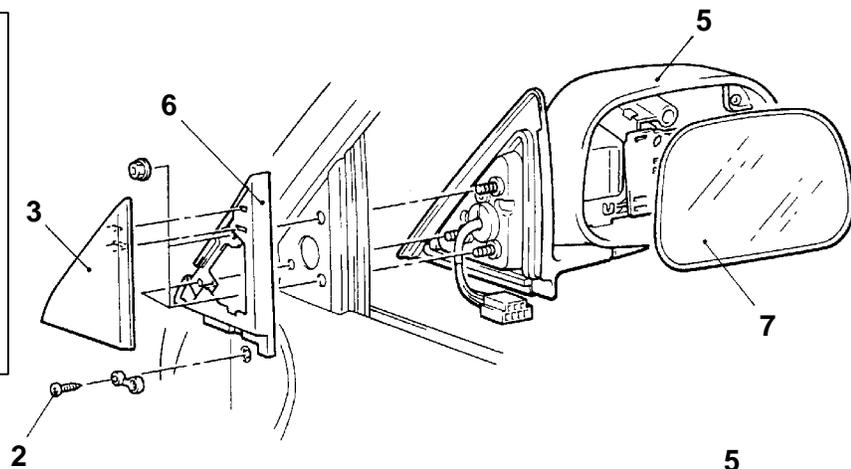
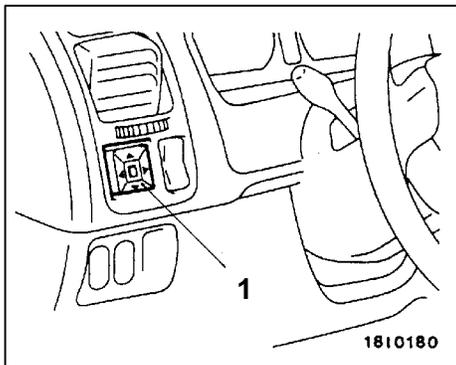
**2. INSTALLATION PROCEDURE**

- (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.

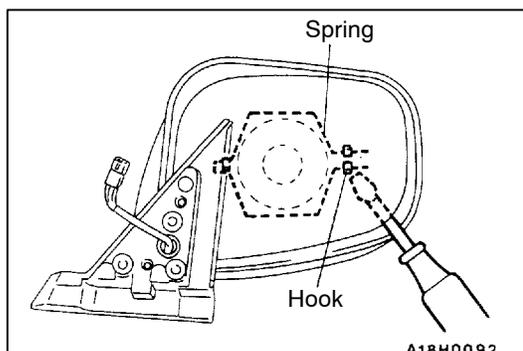
If the surrounding temperature is lower than 20°C, the marks and the places on the body where the marks are to be attached should be heated to 20-38°C.

DOOR MIRROR**REMOVAL AND INSTALLATION**

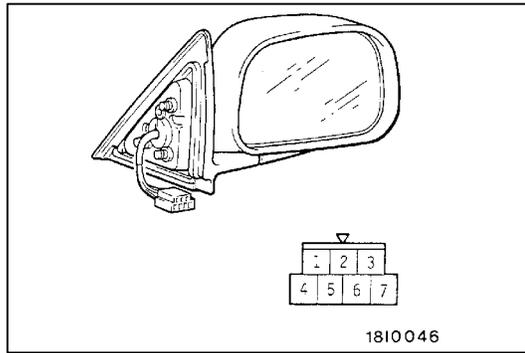
1. Door mirror control switch

Door mirror removal steps

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

**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.



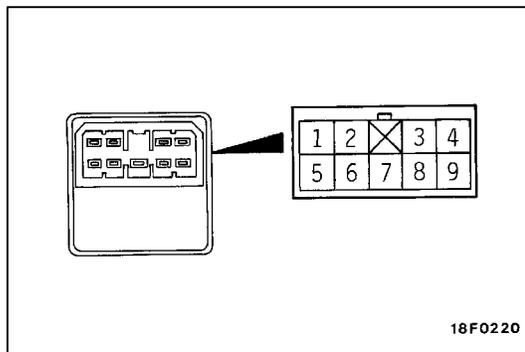
INSPECTION

51100650100

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. For printed heater, check the continuity between terminals 1 and 4.

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



DOOR MIRROR CONTROL SWITCH CONTINUITY CHECK

51101350061

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.

NOTES