

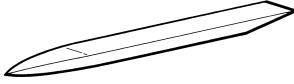
SERVICE SPECIFICATION

Item	Standard value
Windshield wiper blade installation position mm	10–25

SEALANT AND ADHESIVE

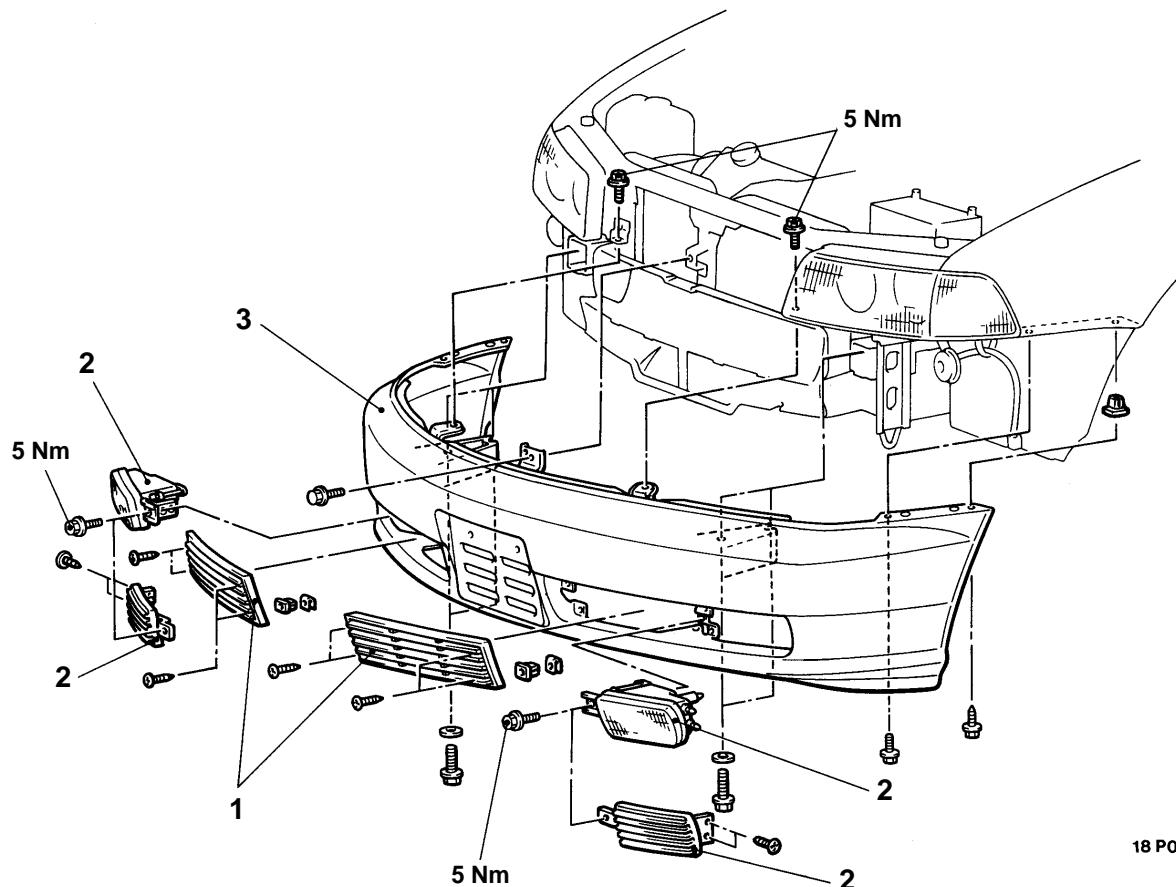
Items	Specified sealant and adhesive
Side sill splash protector	3M ATD Part No. 5357 or equivalent
Side protector moulding	3M ATD Part No. 4213 or equivalent
Side air dam	3M ATD Part No. 5356 or equivalent

SPECIAL TOOLS

Tool	Tool number and name	Supersession	Application
	MB990784 Ornament remover	E23M6	Removal of door mirror control switch
	MB990449 Window moulding remover	–	Removal of roof drip moulding, etc.

FRONT BUMPER < MAGNA >**REMOVAL AND INSTALLATION****Pre-removal and Post-installation Operation**

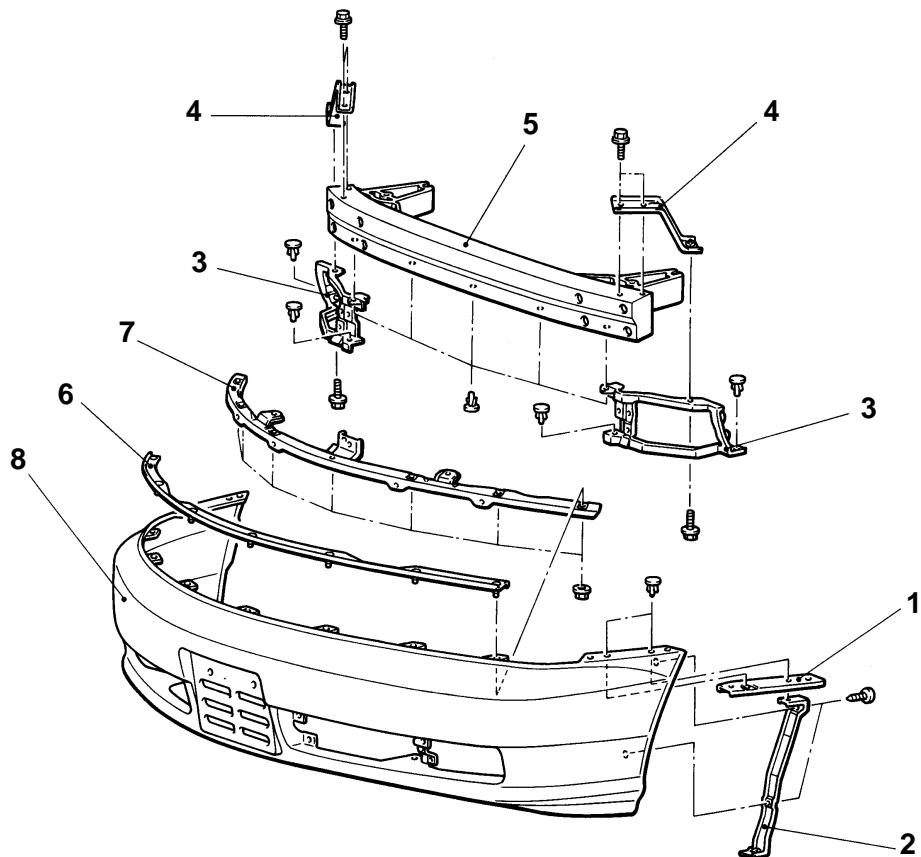
1. Undercover panel Removal and Installation
2. Splash shield Removal and Installation
3. Radiator grille Removal and Installation (Refer to [On vehicle service.](#).)

**Removal steps**

1. Under grille
2. Fog light or fog light cover

3. Bumper assembly

DISASSEMBLY AND REASSEMBLY



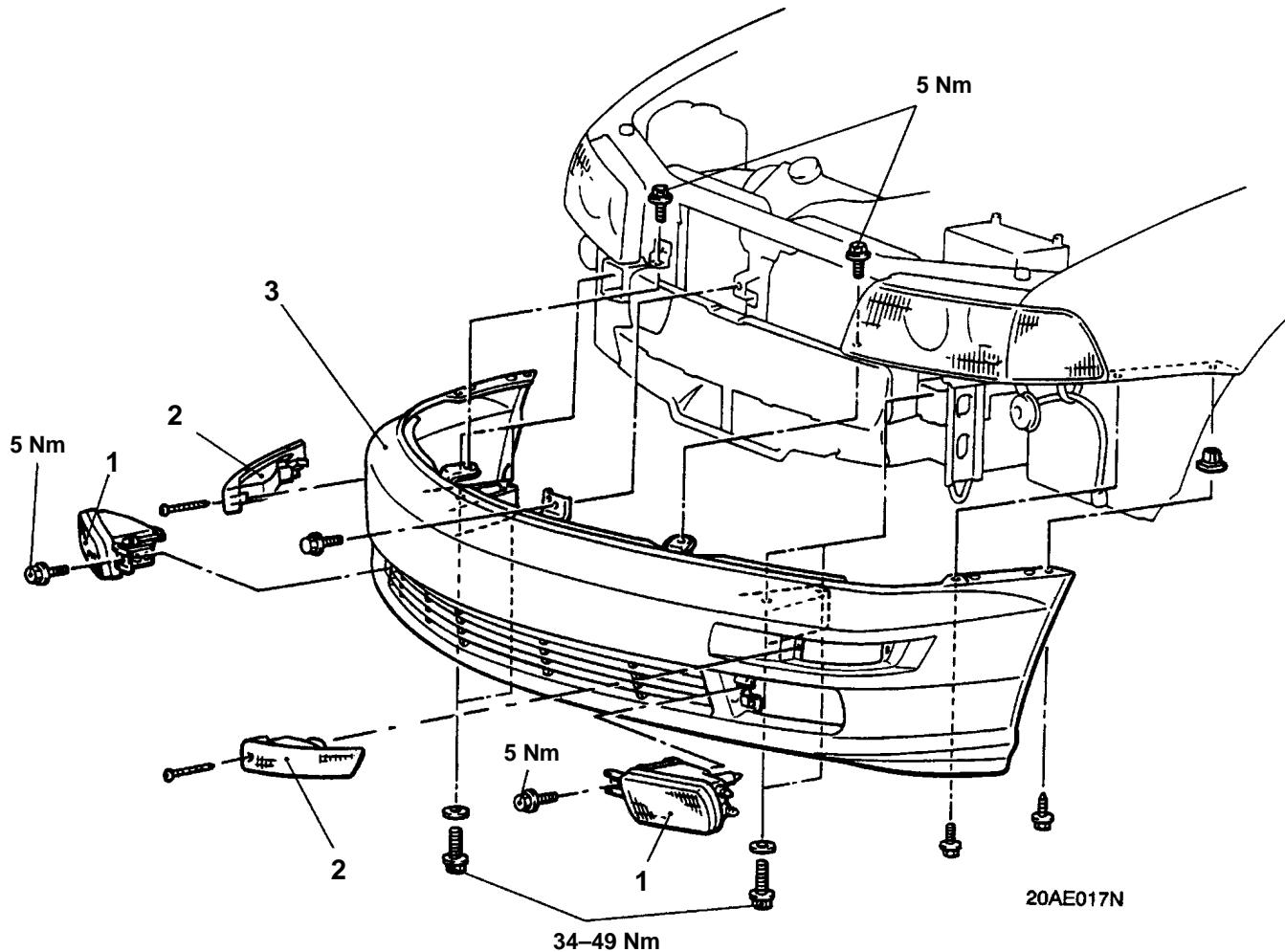
18P0107

Disassembly steps

1. Upper side plate	5. Bumper reinforcement
2. Rear side plate	6. Upper plate
3. Lower reinforcement	7. Upper support
4. Reinforcement extension	8. Bumper face

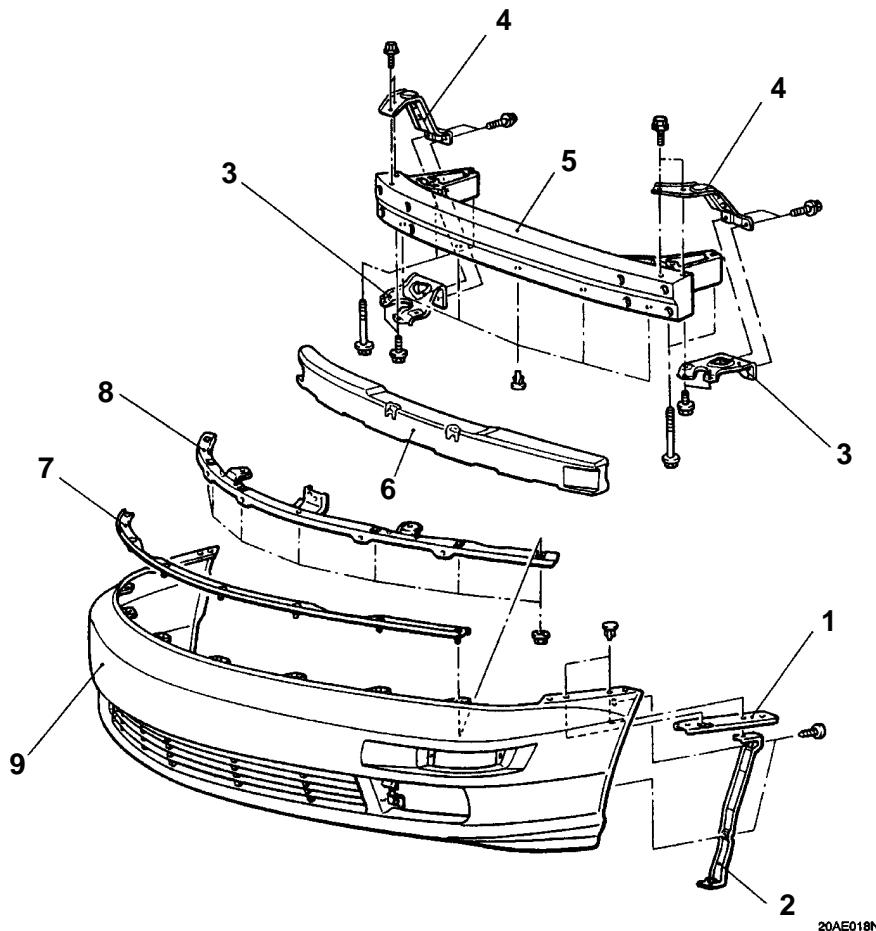
FRONT BUMPER <VERADA>**REMOVAL AND INSTALLATION****Pre-removal and Post-installation Operation**

1. Undercover panel Removal and Installation
2. Splash shield Removal and Installation
3. Radiator grille Removal and Installation (Refer to [On vehicle service.](#).)

**Removal steps**

1. Fog lamp
2. Front turn signal lamp
3. Front Bumper assembly

DISASSEMBLY AND REASSEMBLY



Disassembly steps

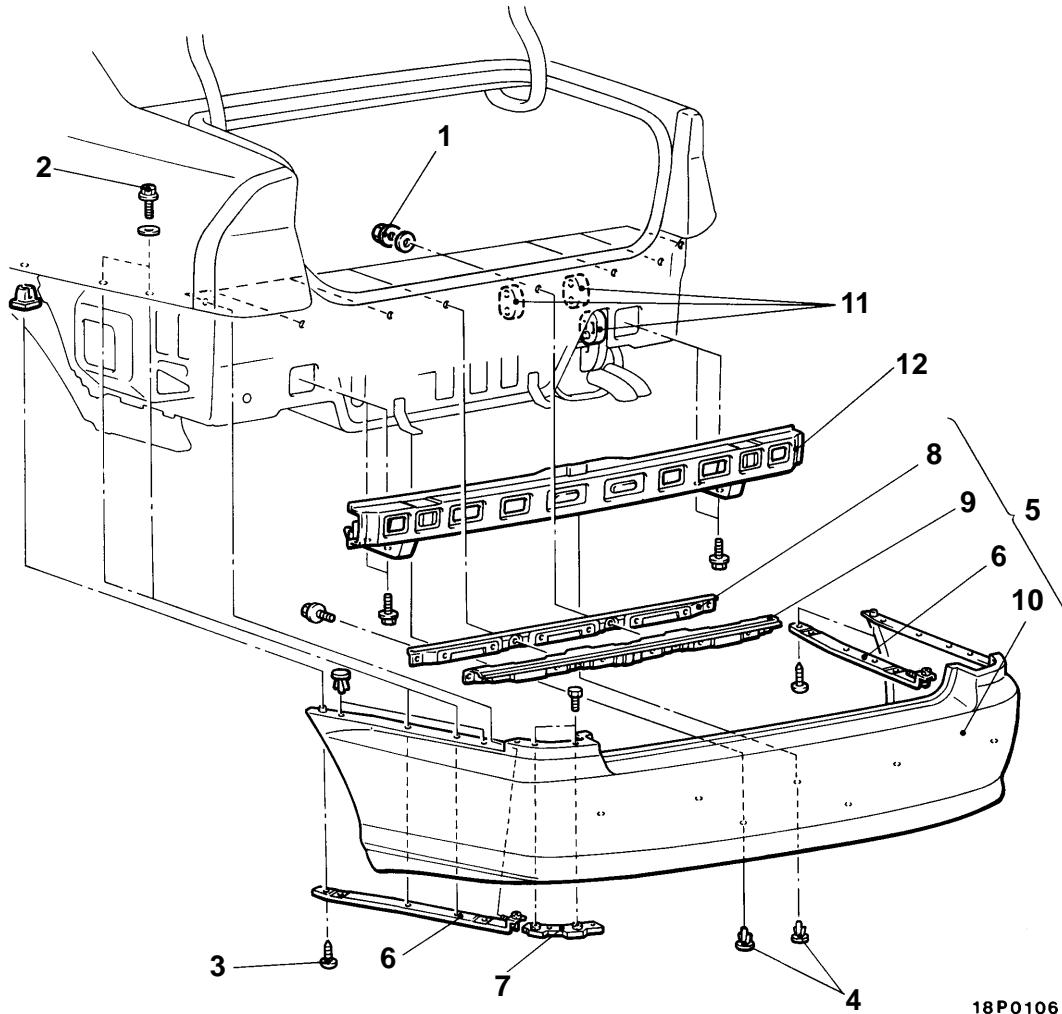
1. Upper side plate	6. Bumper core
2. Rear side plate	7. Upper plate
3. Fog light bracket	8. Upper support
4. Fog light support	9. Bumper face
5. Bumper reinforcement	

REAR BUMPER <MAGNA SEDAN>

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

1. Trunk rear trim cover, trunk rear centre trim and trunk rear side trim Removal and Installation (Refer Group 52A.)
2. Splash shield Removal and Installation



Removal steps

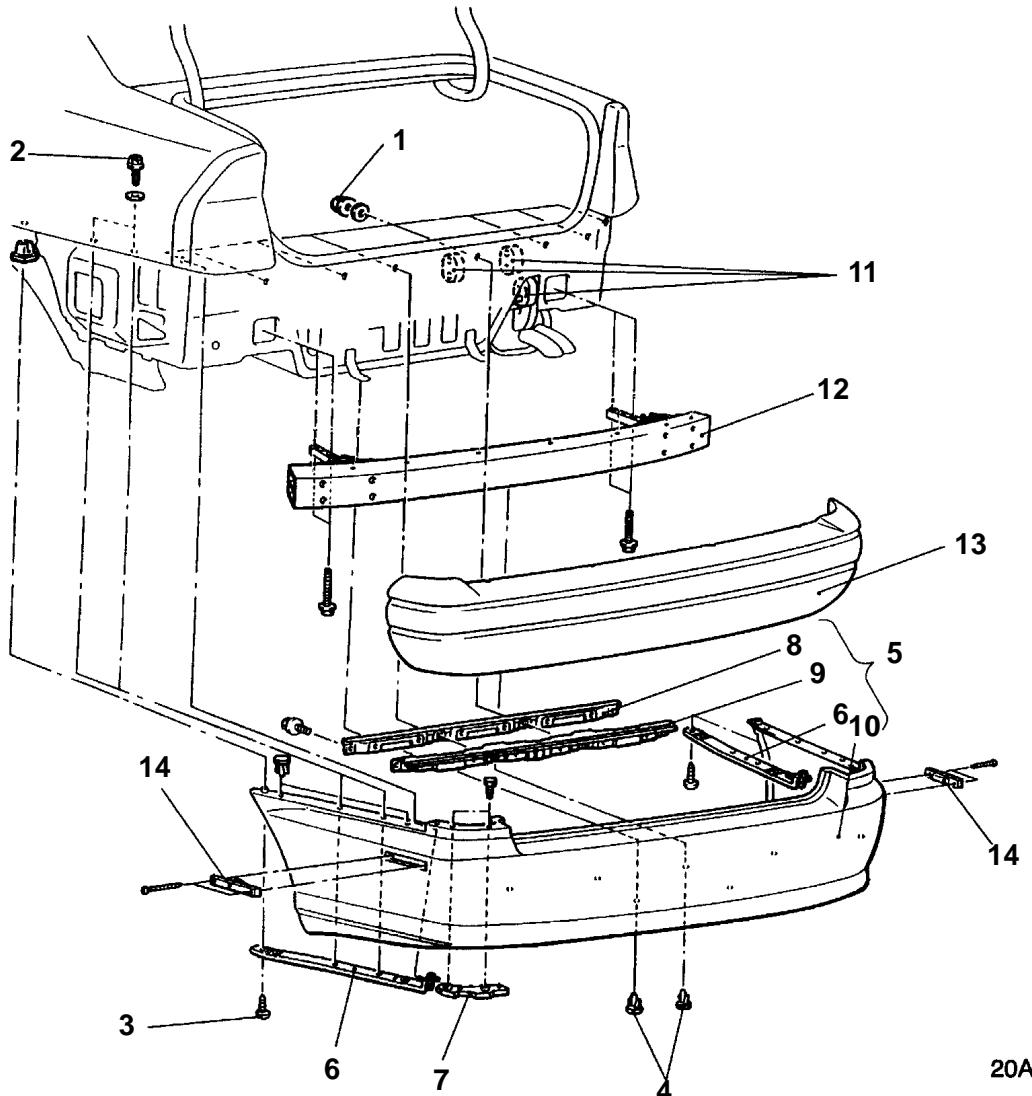
1. Nut	7. Side support
2. Bolt	8. Upper centre plate
3. Screw	9. Upper support
4. Clip	10. Bumper face
5. Bumper face assembly	11. Main muffler hanger connection
6. Side reinforcement	12. Bumper reinforcement

REAR BUMPER <VERADA SEDAN>

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

1. Trunk rear trim cover, trunk rear centre trim and trunk rear side trim Removal and Installation (Refer Group 52A.)
2. Splash shield Removal and Installation

**Removal steps**

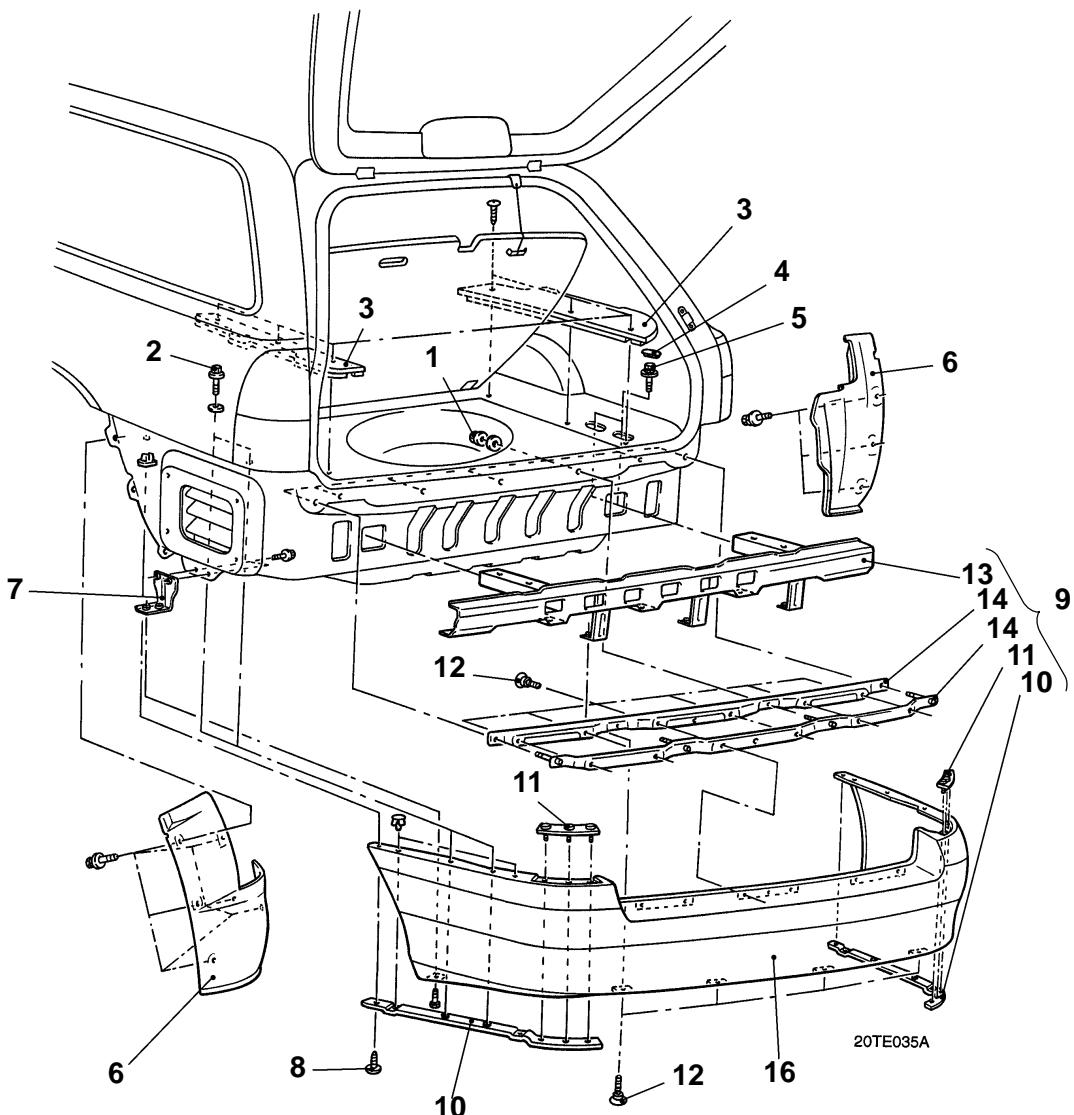
1. Nut	8. Upper centre plate
2. Bolt	9. Upper support
3. Screw	10. Bumper face
4. Clip	11. Main muffler hanger connection
5. Bumper face assembly	12. Bumper reinforcement
6. Side reinforcement	13. Bumper core
7. Side support	14. Reflector

REAR BUMPER <WAGON>

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

1. Cargo compartment lower side B trim (Refer Group 52A.)
2. Splash shield Removal and Installation

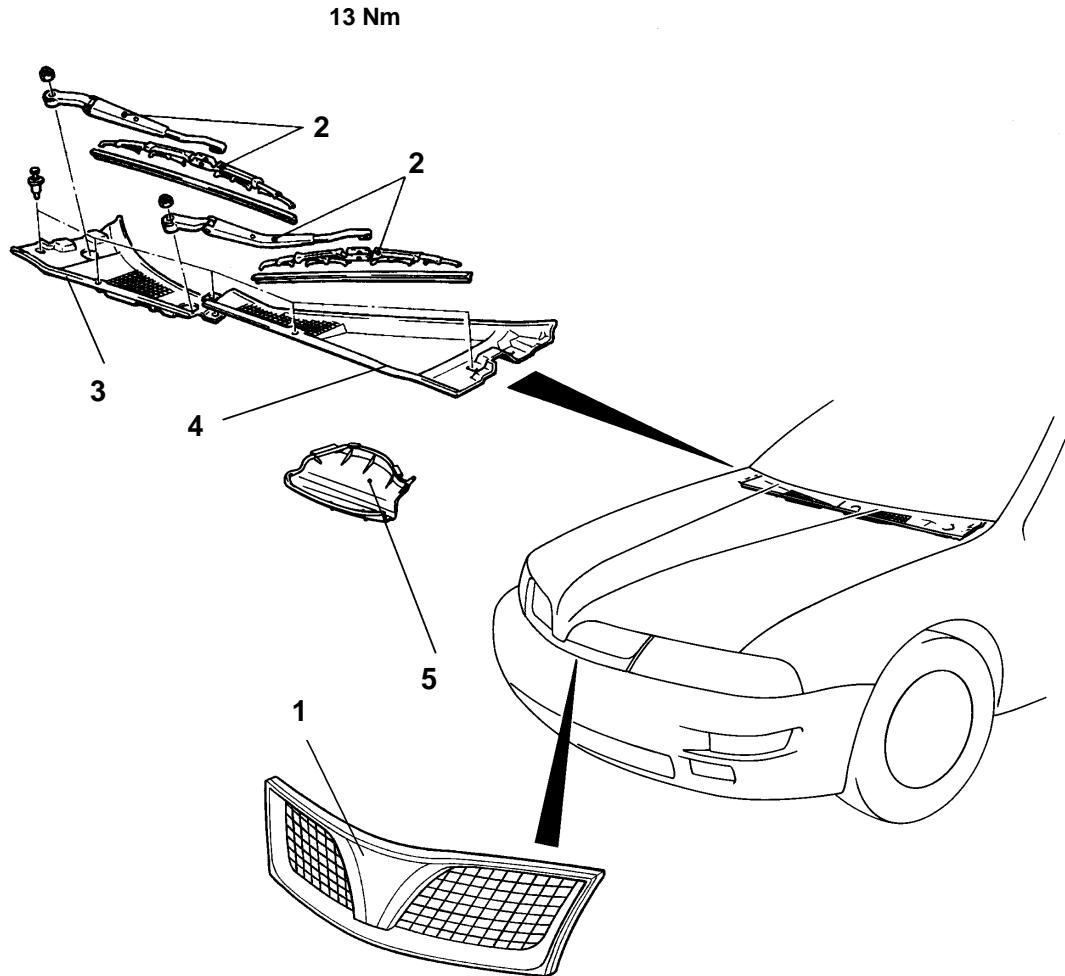


Removal steps

1. Nut	9. Bumper face assembly
2. Bolt	10. Side reinforcement
3. Cargo floor board	11. Side support
4. Grommet	12. Bumper face retaining bolts
5. Bumper retaining bolts	13. Bumper reinforcement
6. Splash shield	14. Upper centre plate
7. Bumper bracket	15. Upper support
8. Screw	16. Bumper face

GRILLES AND GARNISHES

REMOVAL AND INSTALLATION



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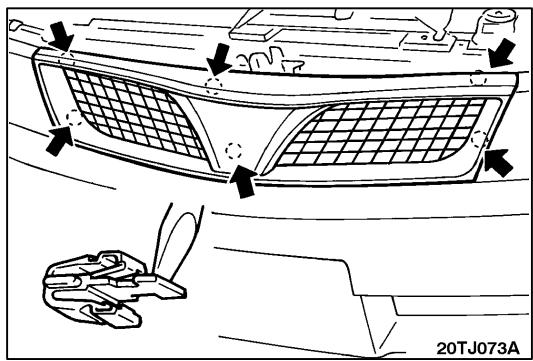
Radiator grille removal

1. Radiator grille



Air inlet grille removal steps

2. Wiper arm assembly
3. Front deck garnish (RH)
4. Front deck garnish (LH)
5. Air intake garnish



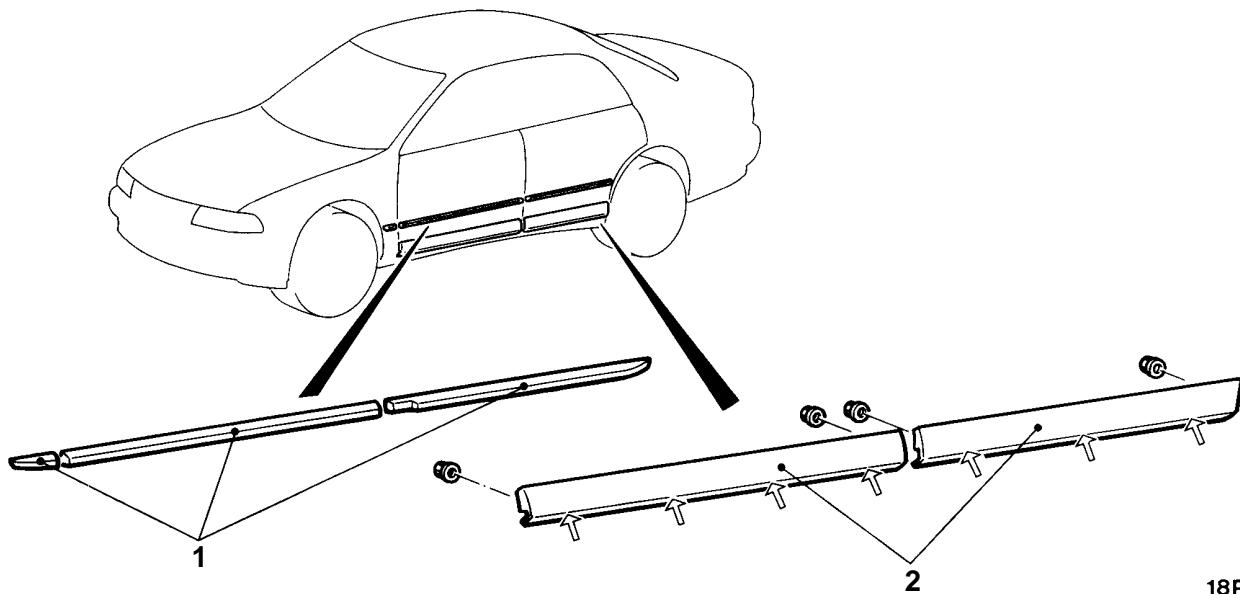
REMOVAL SERVICE POINT

◀A▶ RADIATOR GRILLE REMOVAL

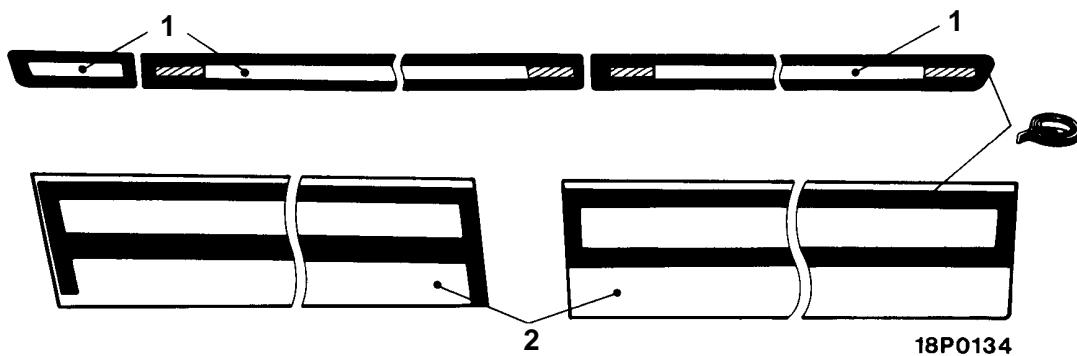
While gently pulling the radiator grille towards you, use a flat-bladed screwdriver to push the clip catches in the direction indicated by the arrows.

MOULDINGS

REMOVAL AND INSTALLATION



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18P0134
20AE019N

Adhesive tape:

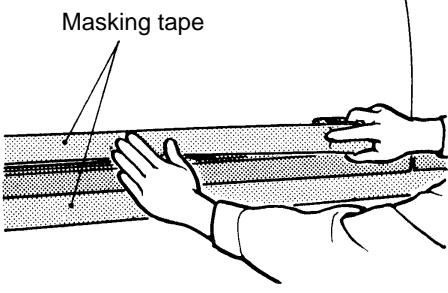
- Side sill splash protector: 3M Part No. 5356 or equivalent 8 mm wide and 1.5 mm thick
- Side protector moulding: 3M Part No. 4213 or equivalent 5 mm wide and 0.8 mm thick

Primer: 3M Part No. K500 or equivalent polypropylene primer



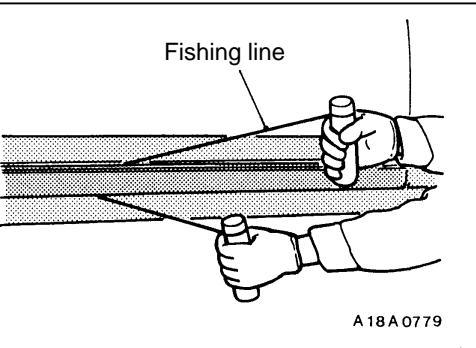
1. Side protector moulding
2. Side sill splash protector

Masking tape



A18A0777

Fishing line



A18A0779

Cross section A-A

Positioning boss



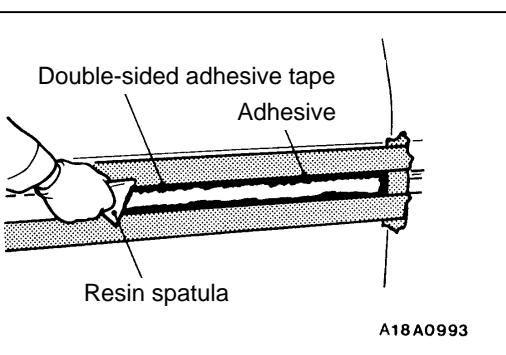
A18X0481

• mark: positioning bosses

Double-sided adhesive tape

Adhesive

Resin spatula



A18A0993

REMOVAL SERVICE POINTS

◀A▶ SIDE PROTECTOR MOULDING AND SIDE SILL SPLASH PROTECTOR REMOVAL

1. Apply masking tape along the outside edges(s) of the moulding.

2. Insert fishing line [$\varnothing 0.8$ mm] in between the body and the moulding, and pull both ends alternately to cut the adhesive section and remove the moulding.

Caution

1. If the moulding is to be reused, pull the fishing line along the edge of the body so as not to damage the edge of the moulding.
2. If the adhesive is difficult to remove, heat it to 40°C.

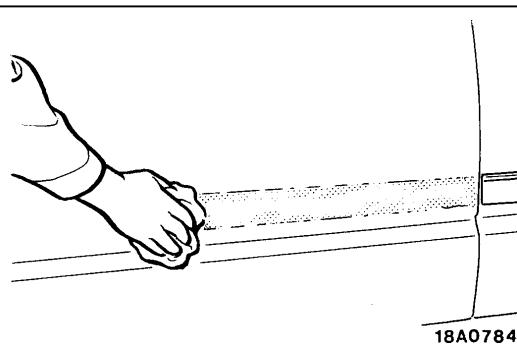
3. Pull the section of the side protector moulding with the positioning bosses towards you to remove the bosses from the mounting holes.

4. Scrape off the double-sided adhesive tape with a resin spatula.

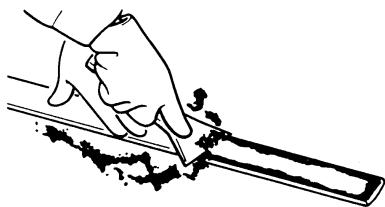
5. Pull off the masking tape.

6. Scrape off a small amount of the adhesive with a cutter knife.

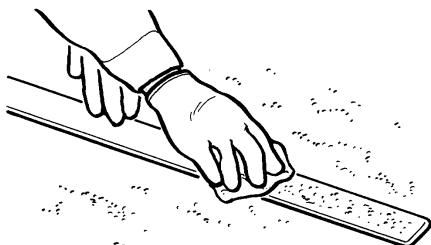
7. Wipe the body surface clean with a rag moistened with isopropyl alcohol.



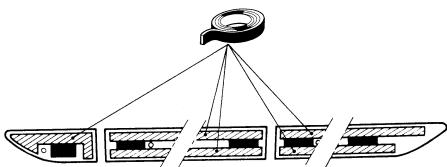
18A0784



18A0994



18A0788



A18X0478

INSTALLATION SERVICE POINTS

►A SIDE PROTECTOR MOULDING AND SIDE SILL SPLASH PROTECTOR INSTALLATION

Affixing double-sided tape to the mouldings (when re-using mouldings)

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

2. Wipe the moulding adhesion surface clean with a rag moistened with isopropyl alcohol.

3. Apply the specified primer to the area where the double-sided tape is to be attached and allow to dry thoroughly.

Specified primer: 3M Part No. K500 (or equivalent polypropylene primer)

4. Heat the adhesive surface of the double-sided tape on the side protector moulding to about 40–60°C.

5. Affix the specified double-sided adhesive tape to the moulding.

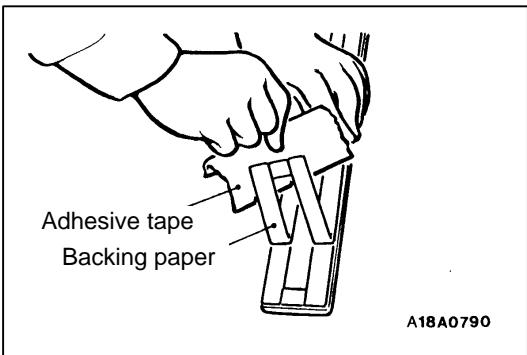
Specified adhesive tape:

Side protector moulding:

3M ATD Part No. 5357 or equivalent
8 mm wide and 1.2 mm thick

Side sill splash protector

3M ATD Part No. 4213 or equivalent
5 mm wide and 0.8 mm thick

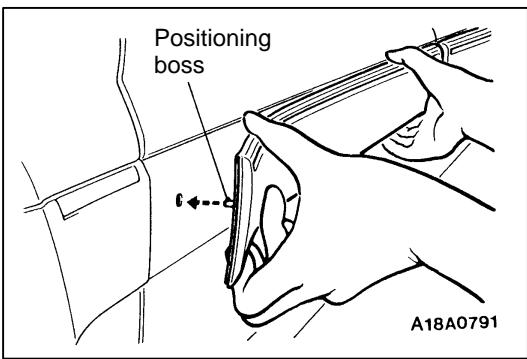


MOULDING INSTALLATION

1. Tear off the double-sided tape backing paper.

NOTE

If you attach adhesive tape to the edge of the backing paper, it will be easy to tear off.

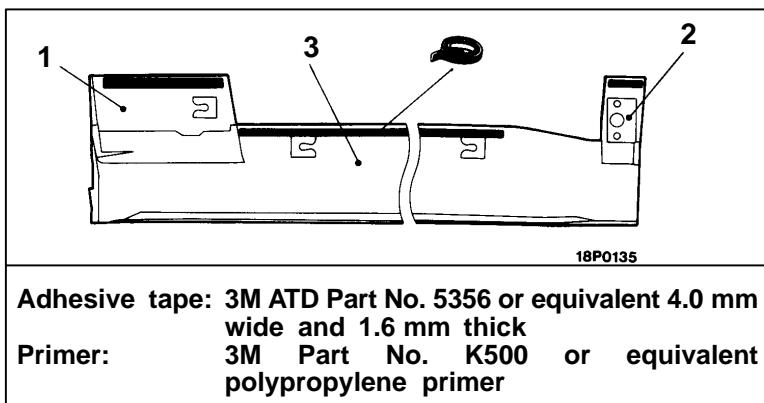
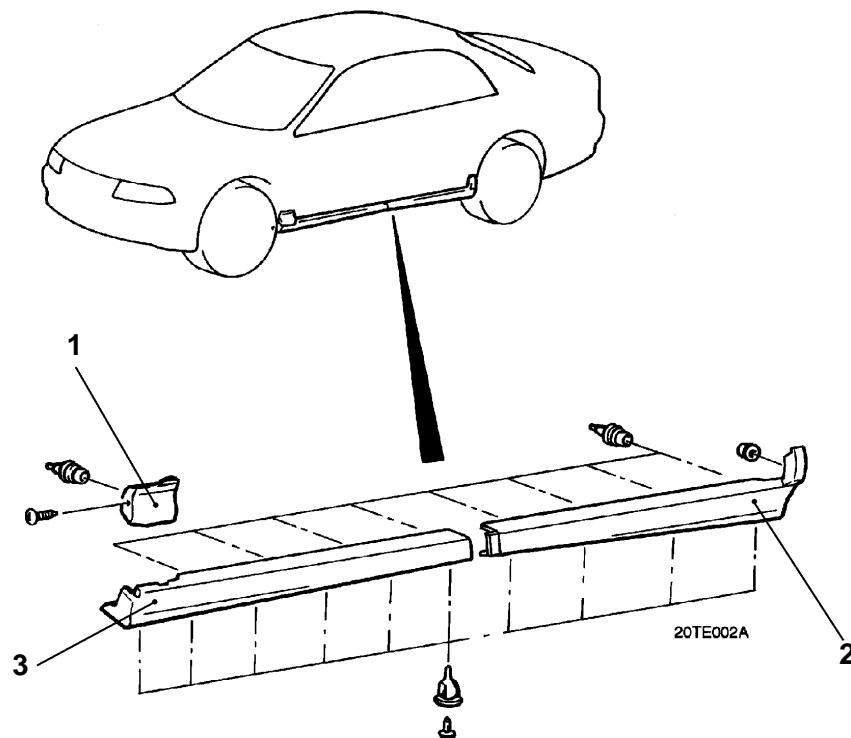


2. Install the side protector moulding so that the positioning bosses match the body holes.

NOTE

If the double-sided adhesive tape is difficult to affix during winter, etc., warm the bonding surfaces of the body and the side protector moulding to about 40–60°C before affixing the tape.

3. Firmly press in the side protector moulding.

AERO PARTS**REMOVAL AND INSTALLATION****Removal steps**

 1. Front side air dam
2. Rear side air dam
3. Lower side air dam

REMOVAL SERVICE POINTS**◀A▶ FRONT SIDE AIR DAM/LOWER SIDE AIR
DAM/REAR SIDE AIR DAM REMOVAL**

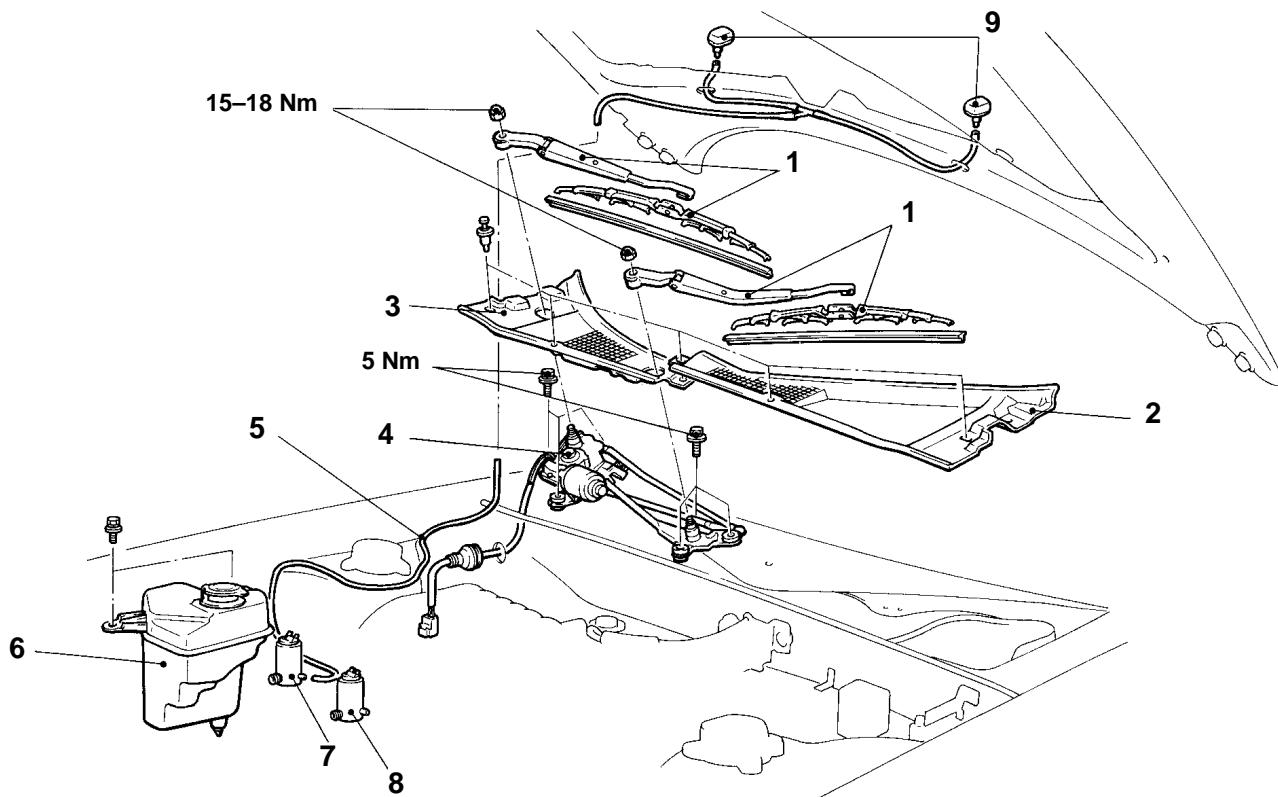
Remove by following the procedure described for the side protector moulding and side sill splash protector. Refer [On vehicle service](#).

INSTALLATION SERVICE POINTS**▶A◀ FRONT SIDE AIR DAM/LOWER SIDE AIR
DAM/REAR SIDE AIR DAM INSTALLATION**

Install by following the procedure described for the side protector moulding and side sill splash protector. Refer [On vehicle service](#).

WINDSHIELD WIPER AND WASHER

REMOVAL AND INSTALLATION



18P0141

Wiper motor and linkage removal steps

►A◀ 1. Wiper arm and blade assembly
 2. Front deck garnish (LH)
 3. Front deck garnish (RH)
 4. Wiper motor and linkage

Washer nozzle removal steps

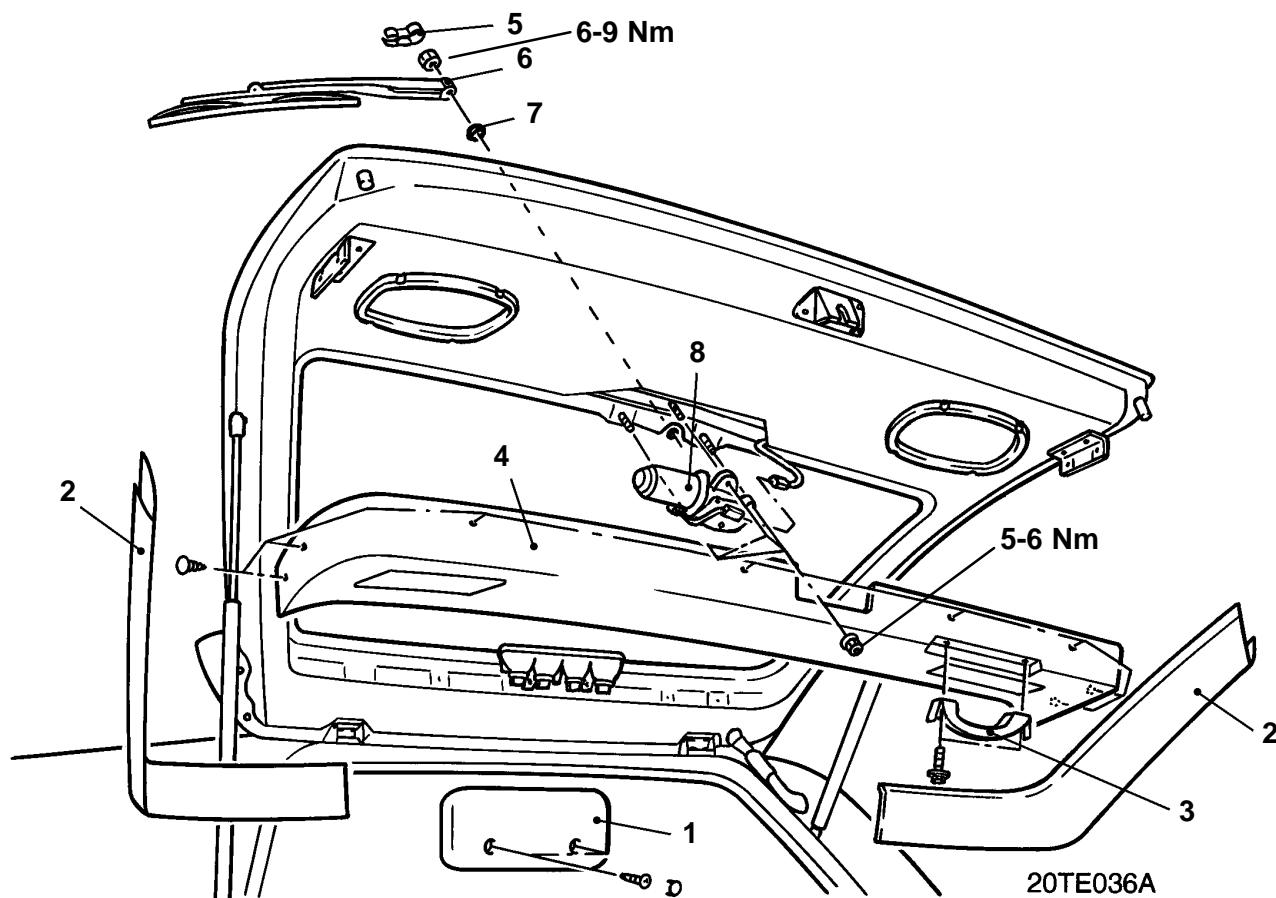
5. Washer hose
 9. Washer nozzle

Washer tank removal steps

5. Washer hose
 6. Washer tank
 7. Washer motor
 8. Rear washer motor <Wagon>
 9. Washer nozzle

REAR WIPER AND WASHER

REMOVAL AND INSTALLATION



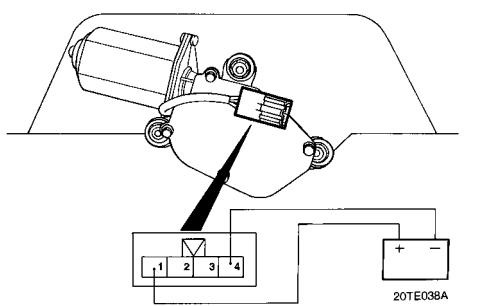
Removal steps

1. High mount stop lamp cover
2. Tailgate side trim
3. Grab handle

►A◀

4. Tailgate trim
5. Wiper arm cover
6. Wiper arm assembly
7. Grommet
8. Wiper motor

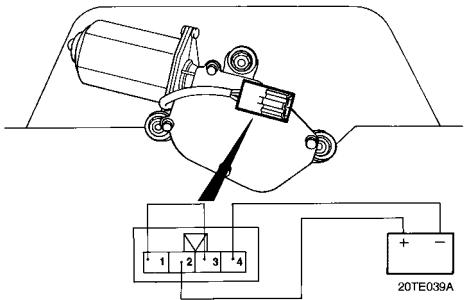
Operation inspection



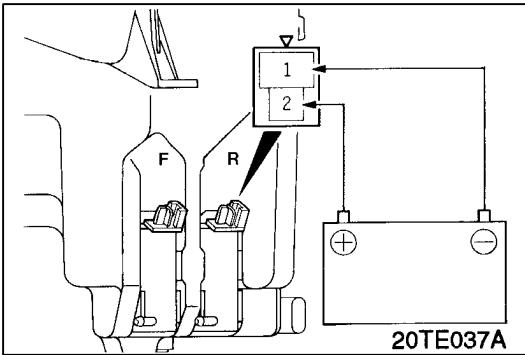
INSPECTION

REAR WIPER MOTOR OPERATION

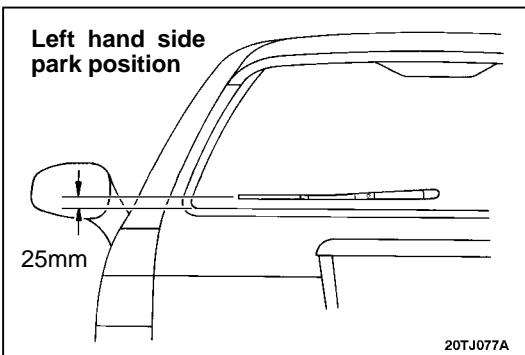
1. Connect the battery to the wiper motor as illustrated, and check the operation of the wiper motor.

Stop position inspection**STOP POSITION OF THE WIPER MOTOR**

1. Connect the battery to the wiper motor as illustrated under the operation inspection and after running the wiper motor, disconnect the battery to stop the wiper motor.
2. Connect the battery and terminals as illustrated in stop position inspection, run the wiper motor and confirm that the motor stops at the automatic stop position.

**REAR WASHER MOTOR**

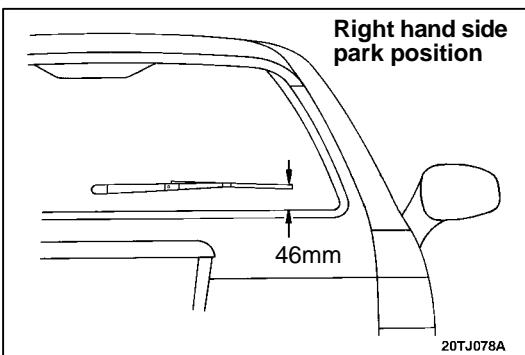
1. When checking the washer motor, check with water added to the washer tank, with the tank still installed.
2. Confirm that the water is pumped at an adequate pressure when the battery is connected as illustrated.

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

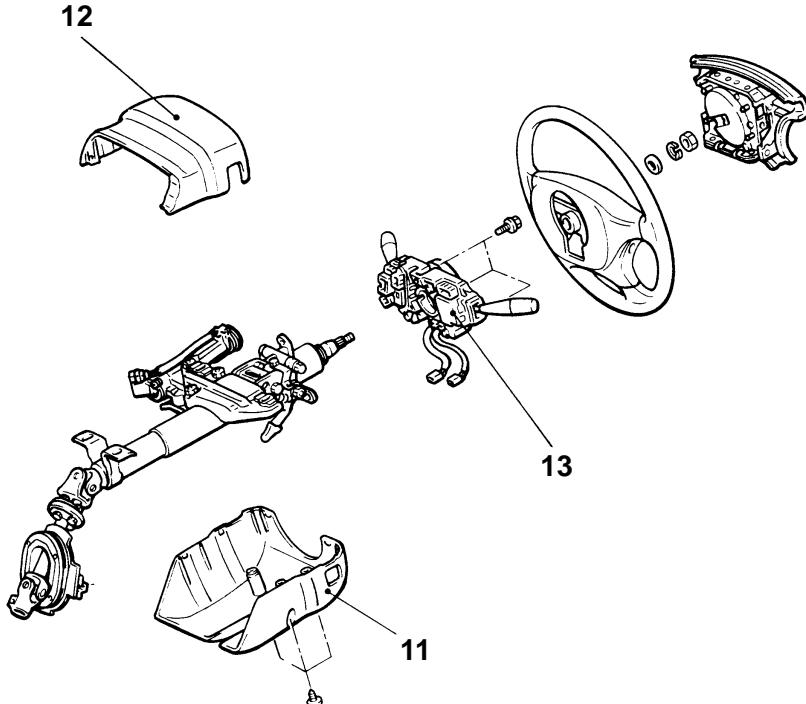
1. Set the wiper arm and blade assembly position to the specification as shown in the illustrations.

Caution:

Ensure that the wiper arm is installed on the correct side. The park position will depend on the type of rear wiper motor assembly fitted to the vehicle.



CAUTION: SRS
Before removal of air bag module and clock spring, refer to the following:
Group 52B – [SRS Service Precautions, Air Bag Module and Clock Spring](#).



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Column switch removal steps

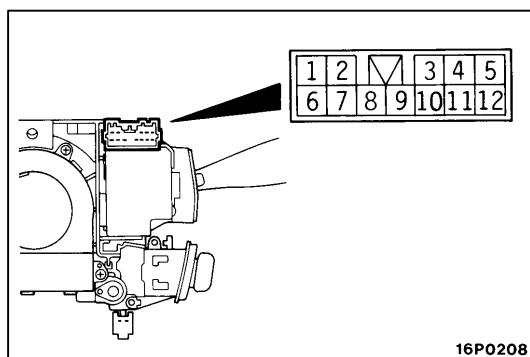
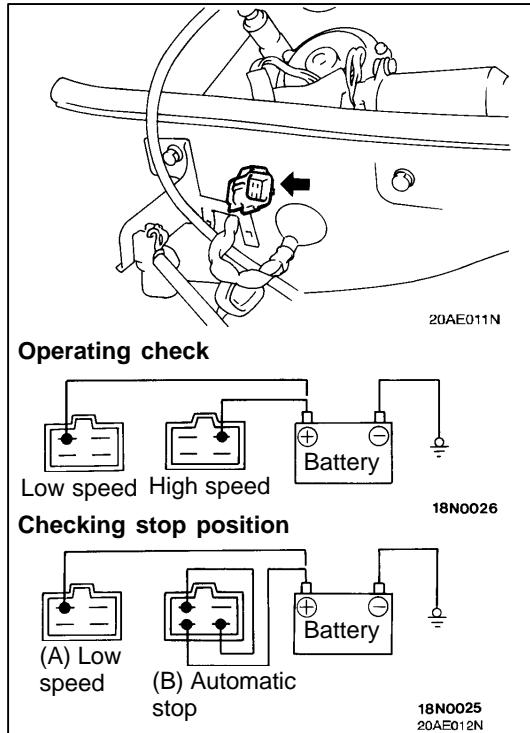
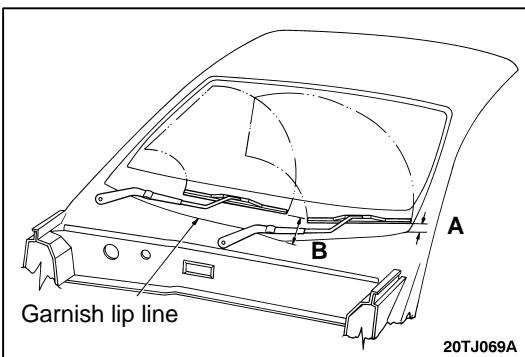
- Horn pad (Refer [Group 37A](#).)
- Air bag module (Refer [Group 52B](#).)
- Steering wheel (Refer [Group 37A](#).)

11. Column cover lower
12. Column cover upper
13. Column switch assembly
(with built-in wiper and washer switch)

- Clock spring*
(Refer [Group 52B](#).)

NOTE

Parts marked with * should not be removed from the column switch except when removal is absolutely necessary.



INSTALLATION SERVICE POINT

► A ◀ WIPER ARM AND BLADE ASSEMBLY INSTALLATION

1. The movements of the left and right wiper arms are different, so check the identification marks.
2. Install the wiper blade in the specified position (standard value) as shown in the illustration.

Standard value (A): 20–35 mm

Standard value (B): 65–80 mm

INSPECTION

WIPER MOTOR CHECK

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

Wiper Motor 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.

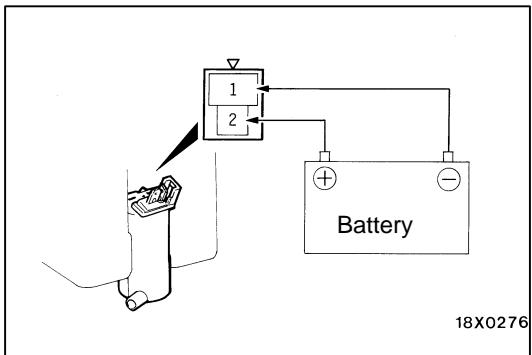
Wiper Motor Stop Position Operation

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 CHECK

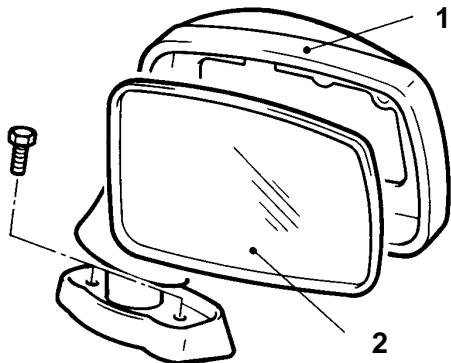
Wiper and Washer Switch Continuity check

Switch position	Terminal Numbers				
	8	9	10	11	12
Wiper switch	OFF			○	○
	INT			○	○
	LO	○		○	
	HI	○	○		
Washer switch ON		○			○



WASHER MOTOR CHECK

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.

DOOR MIRROR**REMOVAL AND INSTALLATION**

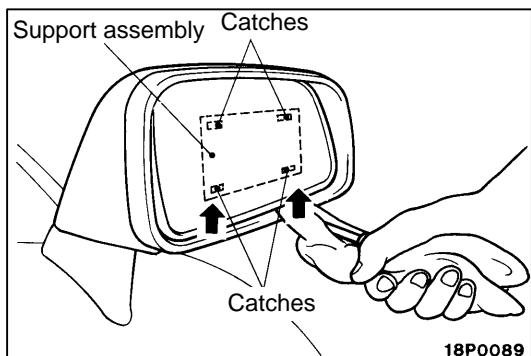
18P0131

Door mirror removal steps

1. Door mirror assembly



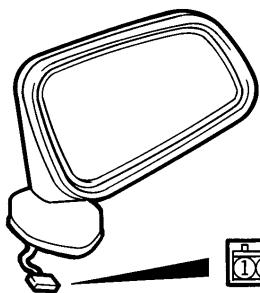
2. Mirror glass



18P0089

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

Turn the mirror by hand so that it faces upwards, insert the (–) driver wound with masking tape into the notched section, and lever out to release the mirror from the bottom catches. Remove the mirror from the upper catches by pulling downwards.



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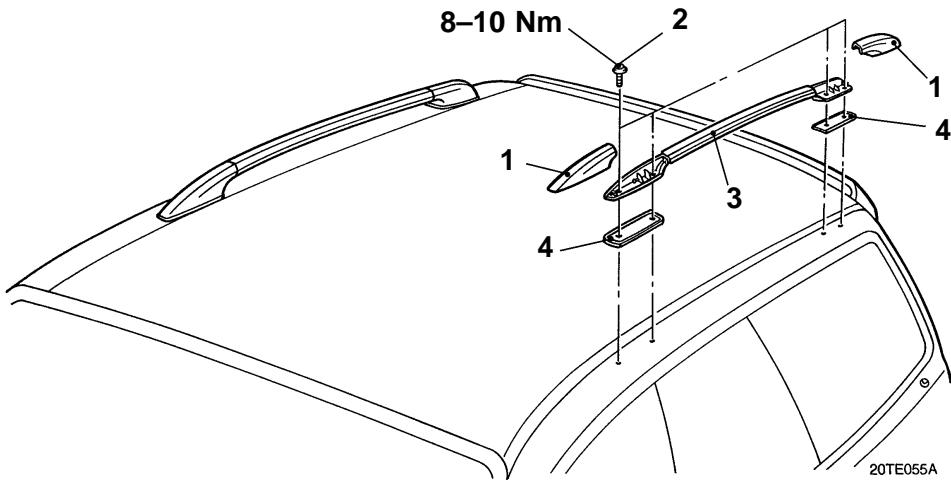
INSPECTION**REMOTE CONTROL MIRROR ASSEMBLY CHECK**

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

Direction of operation	Terminal No.		
	3	4	5
UP	⊖ - - -	- - - -	- - +
DOWN	+ - - -	- - - -	- - - ⊕
LEFT	+ - - -	- - - ⊕	-
RIGHT	⊖ - - -	- - - +	-

ROOF RACK

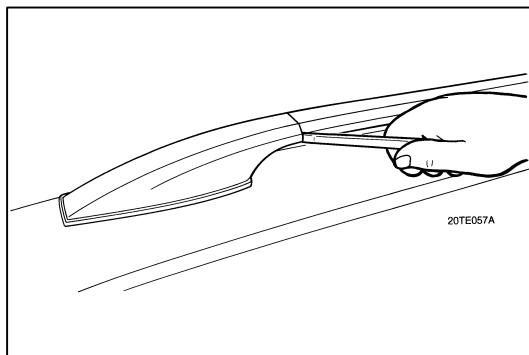
REMOVAL AND INSTALLATION



Removal steps

◀A▶ ▶B◀
 1. Stanchion cover
 2. Retaining bolts

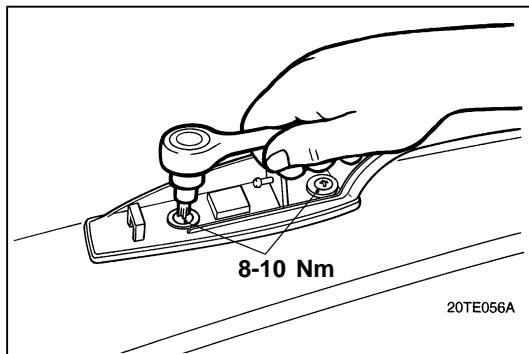
▶A◀ 3. Roof rail and stanchion assembly
 4. Gasket



REMOVAL SERVICE POINT

◀A▶ STANCHION COVER

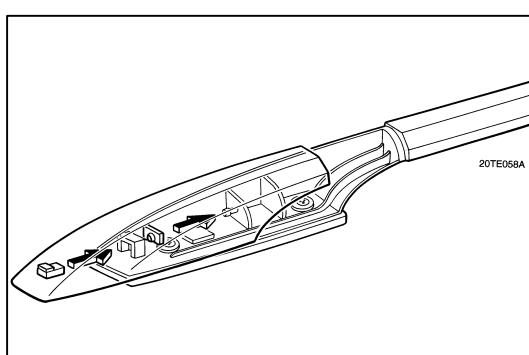
1. Insert a nylon stick between the stanchion cover and roof rail and prise the stanchion cover off.



INSTALLATION SERVICE POINT

▶A◀ ROOF RAIL AND STANCHION ASSEMBLY

1. Insert the front bolt of the rear stanchion first to locate the assembly.
2. Insert the remaining bolts and tighten to the specified torque.



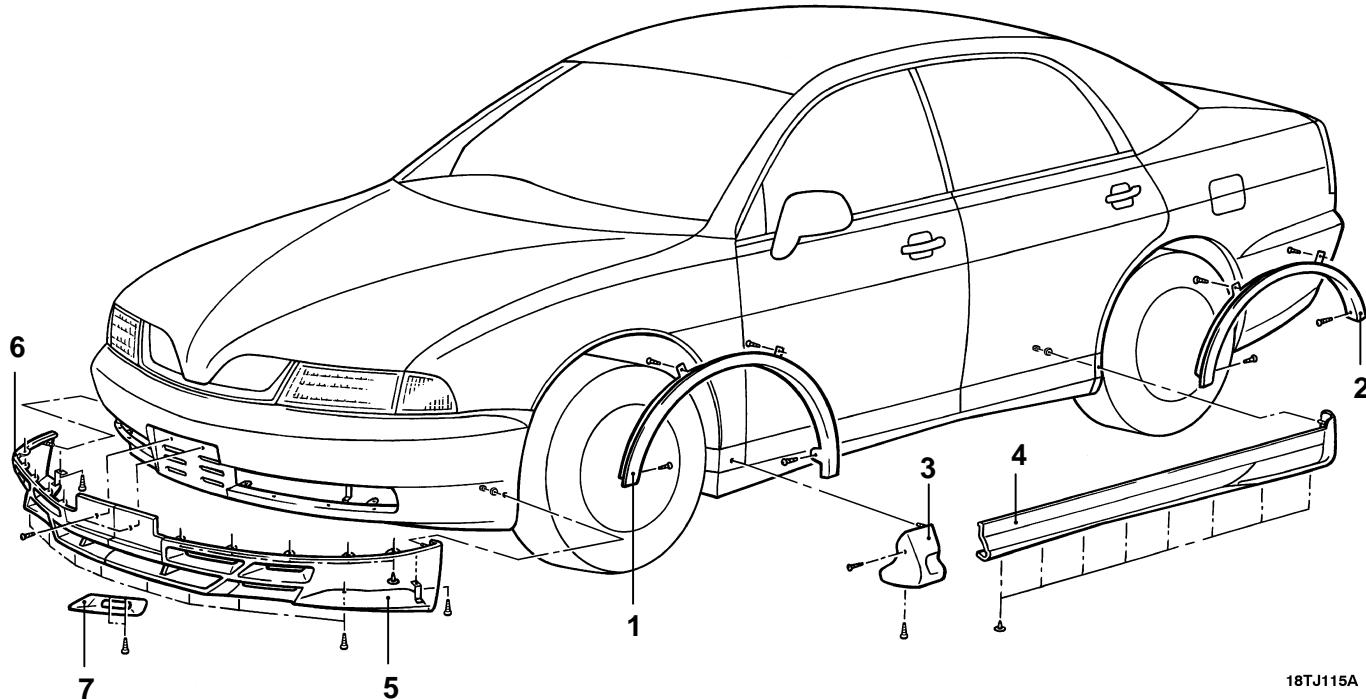
▶B◀ STANCHION COVER

1. Align the two retaining clips of the stanchion cover and slide the cover onto the stanchion.

VR-X BODY KIT FRONT AND SIDE REMOVAL AND INSTALLATION

Note:

- Front bumper must be removed to enable front air dam removal (Refer [on vehicle service](#).)
- Side air dam service points (Refer [on vehicle service](#).)

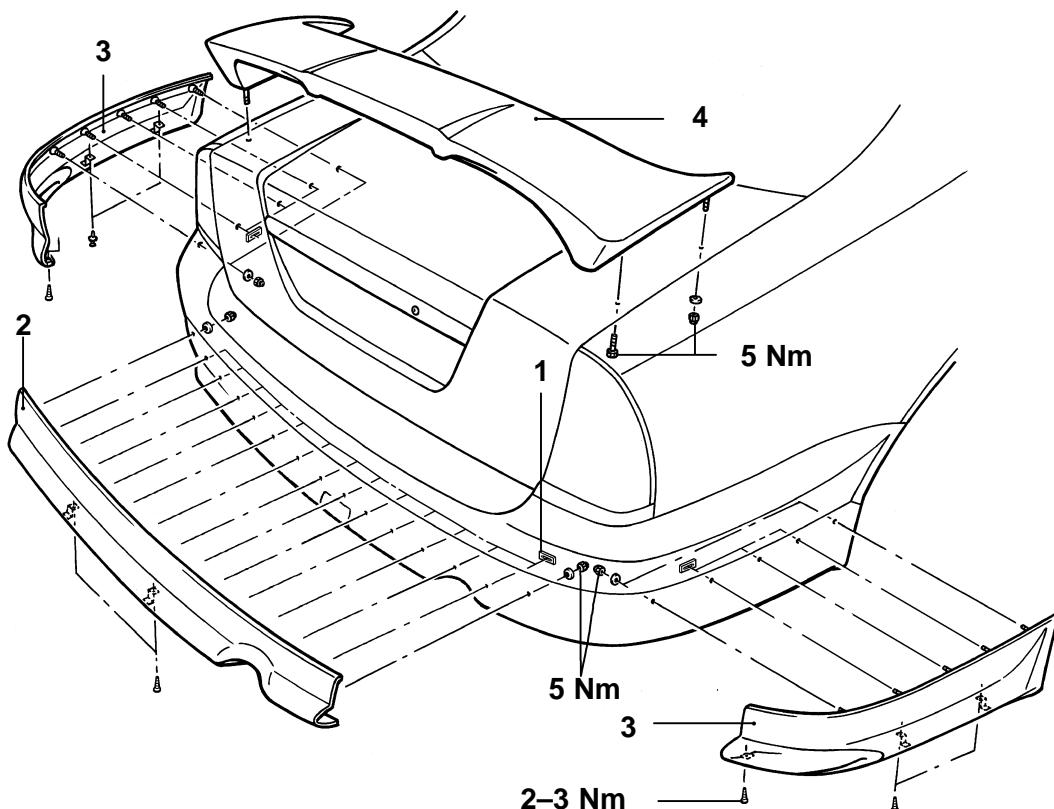


18TJ115A

1. Wheel arch flare front
2. Wheel arch flare rear
3. Side air dam - front
4. Side air dam - rear

5. LH air dam
6. RH air dam
7. Fog lamp cover

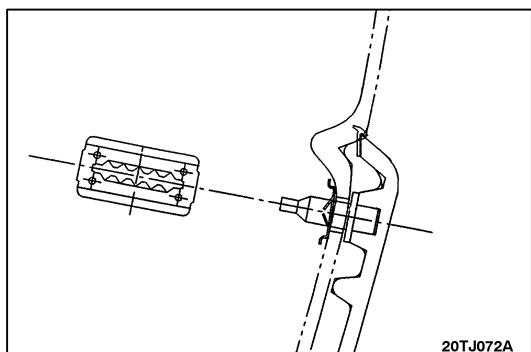
VR-X BODY KIT REAR REMOVAL AND INSTALLATION



18TJ114A

►A◀ 1. Clips
1. Rear air dam

3. Side air dams
4. Spoiler



20TJ072A

INSTALLATION SERVICE POINT

►A◀ AIR DAM CLIP FITMENT

While holding air dam against bumper, install clip horizontally and push firmly to base (19 places on rear and side air dams).