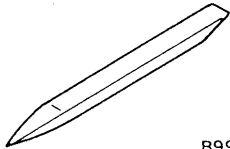


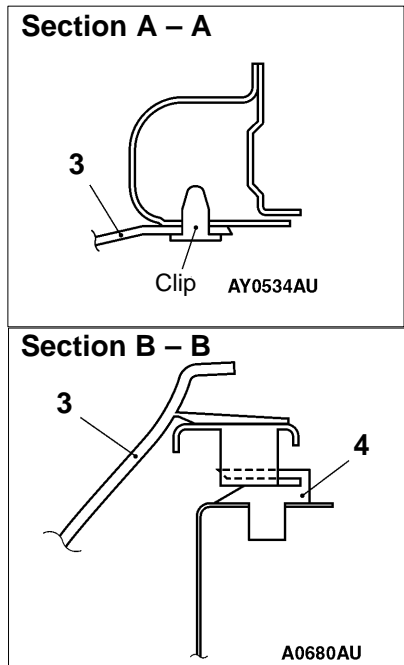
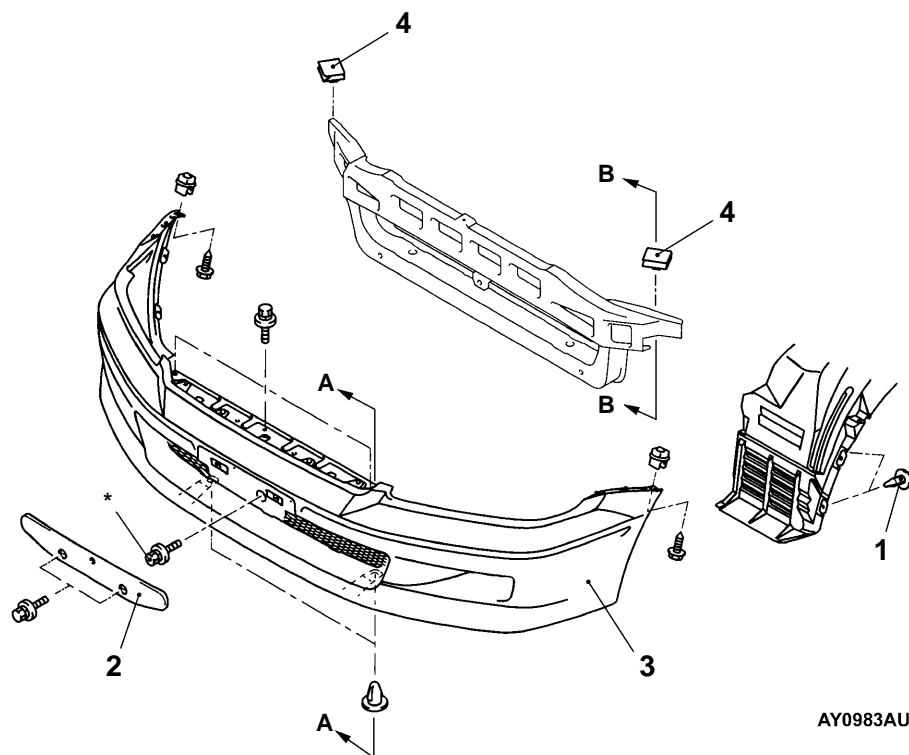
FRONT BUMPER

SPECIAL TOOL

Tool	Number	Name	Application
 B990784	MB990784	Ornament remover	Removal of front bumper center reinforcement

FRONT BUMPER

REMOVAL AND INSTALLATION



NOTE

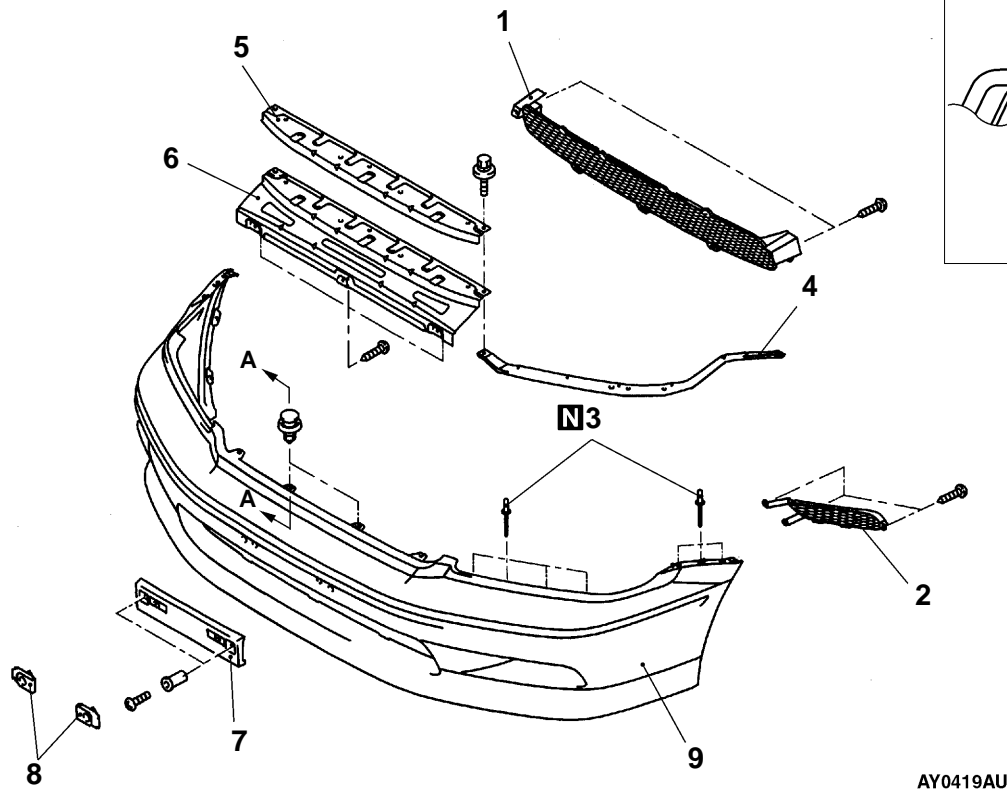
The bolts with asterisks are used for the vehicle with standard bumpers.

Removal steps

1. Splash shield mounting clip
2. Licence plate garnish (Vehicle with standard bumpers)

3. Front bumper assembly
4. Front bumper fixing clip

DISASSEMBLY AND REASSEMBLY



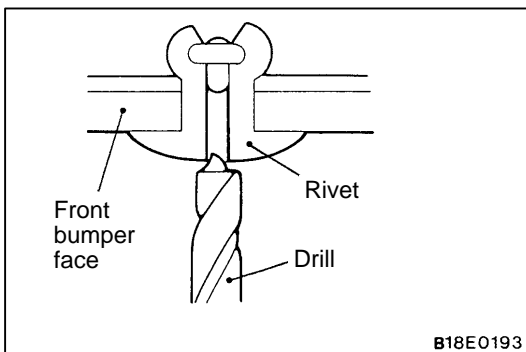
Disassembly steps

- Front air dam
- Front bumper molding
- Foglamp

1. Front bumper grill
2. Air intake bezel (Vehicle with no fog lamp)
3. Front bumper rivet
4. Front bumper side plate



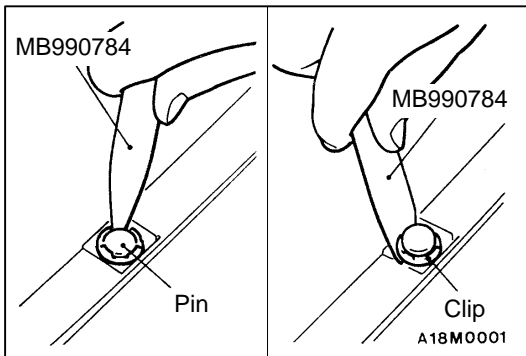
5. Front bumper center reinforcement (Vehicle with standard bumpers)
6. Front bumper center reinforcement (Vehicle with large bumpers)
7. License plate garnish (Vehicle with large bumpers)
8. License plate bracket
9. Front bumper face



DISASSEMBLY SERVICE POINTS

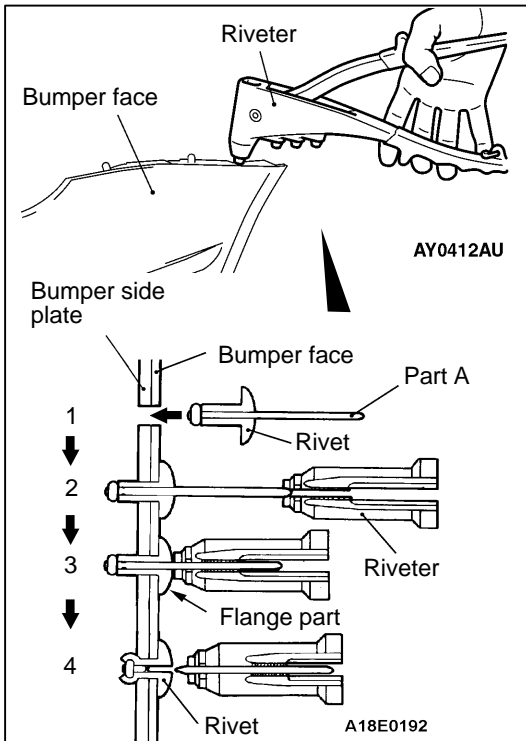
◀A▶ REMOVAL OF FRONT BUMPER RIVET

Use a drill ($\phi 4.0$ mm) to make a hole in the rivet for removal.



◀B▶ REMOVAL OF FRONT BUMPER CENTER REINFORCEMENT

1. Use the special tool to pull up the pin located in the center of the clip.
2. Remove the clip.



REASSEMBLY SERVICE POINT

▶A◀ INSTALLATION OF FRONT BUMPER RIVET

Use the recommended tool shown in the illustration to secure the rivet in the following procedure.

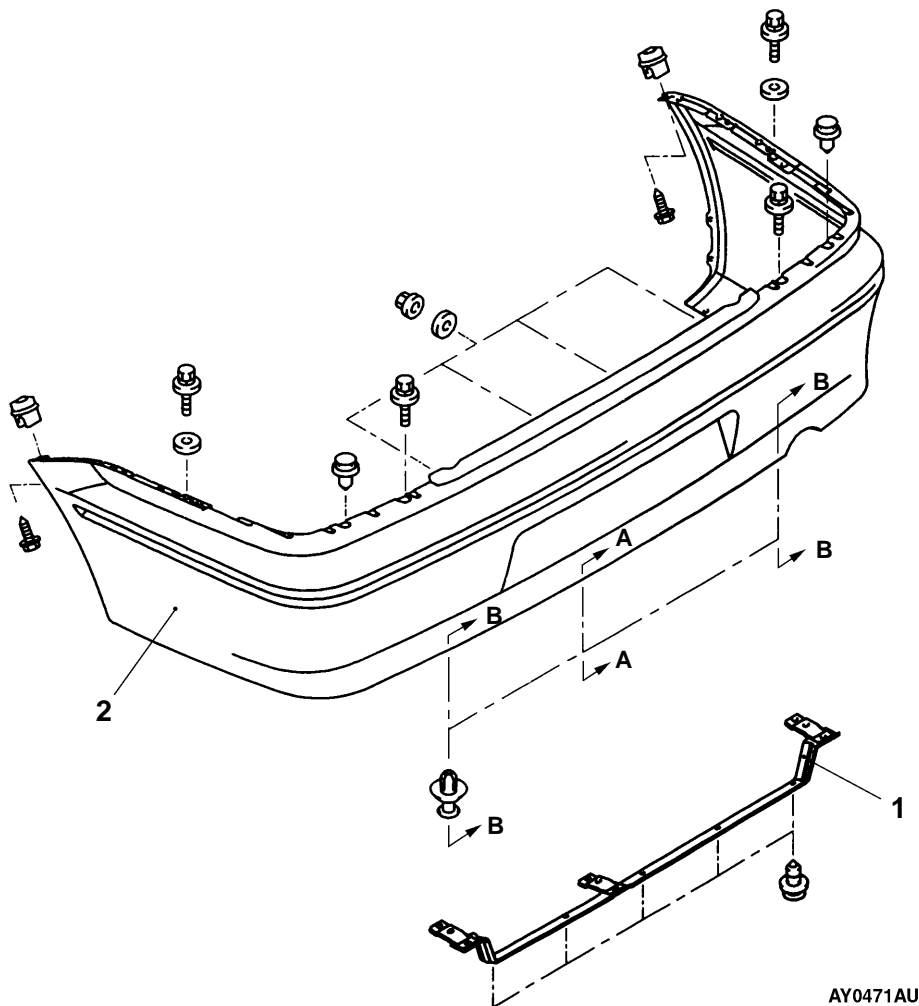
1. Insert the rivet into the main materials (front bumper face and front bumper side plate.)
2. Insert the recommended tool into Part A of the rivet.
3. Maneuvre the handle of the tool pressing the flange of the rivet.
4. Particles of Part A of the rivet are cut off to be secured.

REAR BUMPER

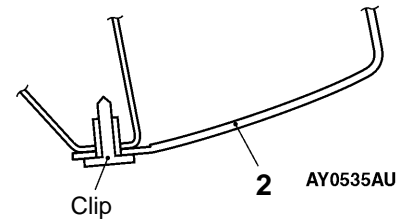
REMOVAL AND INSTALLATION

Pre-removal and post-installation operations

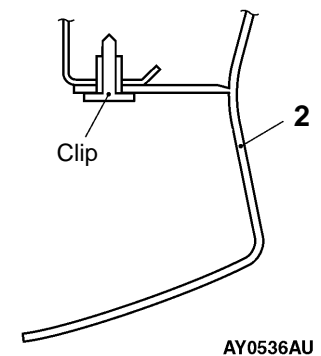
- Removal and installation of rear combination lamp
- Removal and installation of rear end trim
- Removal and installation of rear splash shield



Section A – A



Section B – B

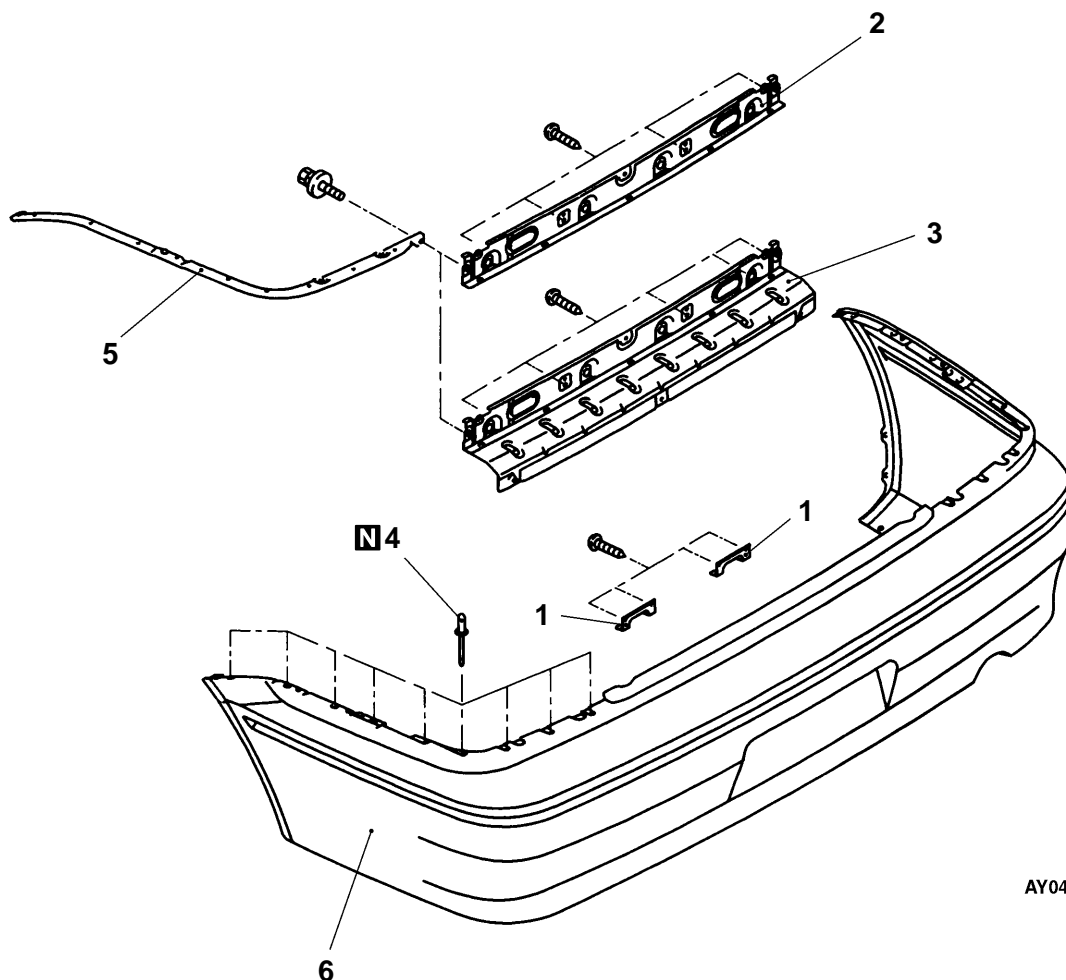


Removal steps

1. Rear bumper lower plate (Vehicle with large bumper)
2. Rear bumper assembly

DISASSEMBLY AND REASSEMBLY

MAIN

Group
51


AY0472AU

Disassembly steps

- Rear fog lamp <where fitted>

1. Licence plate bracket
2. Rear bumper center reinforcement (Vehicle with standard bumpers)



3. Rear bumper center reinforcement (Vehicle with large bumpers)
4. Rear bumper rivet
5. Rear bumper side plate
6. Rear bumper face

DISASSEMBLY SERVICE POINT

◀A▶ REMOVAL OF REAR BUMPER RIVET

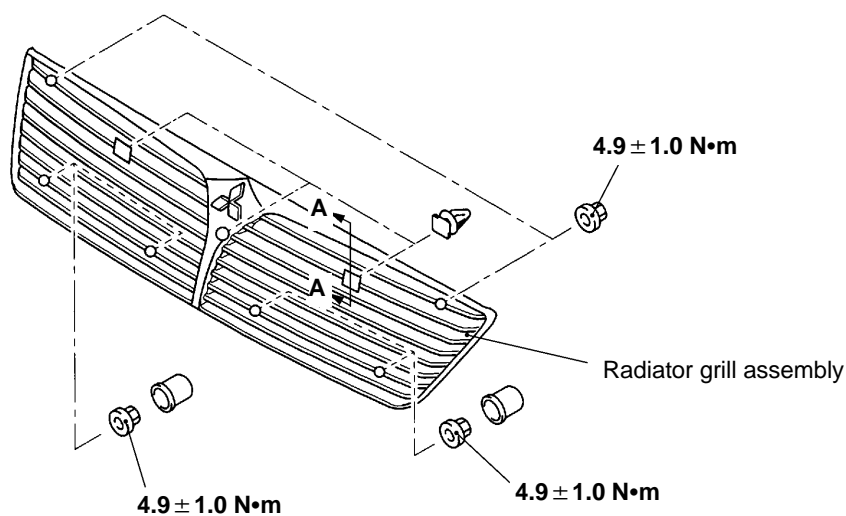
The same procedures are applied as that of the removal of front bumper rivet.

REASSEMBLY SERVICE POINTS

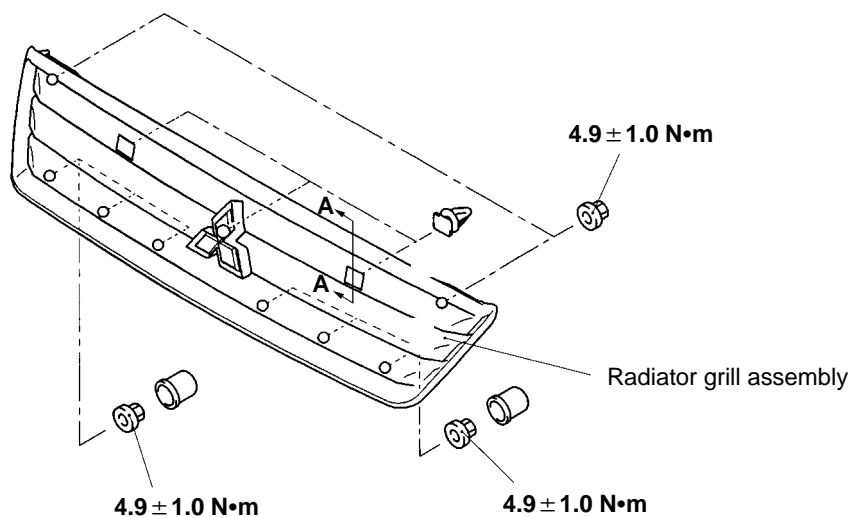
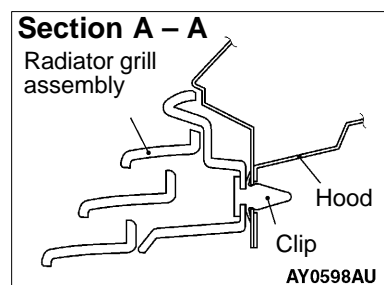
►A◄ INSTALLATION OF REAR BUMPER RIVET

The same procedures are applied as that of the installation of [front bumper rivet](#).

RADIATOR GRILL REMOVAL AND INSTALLATION



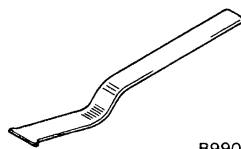
AY0470AU



AY0998AU

AIR DAM, MOLDING AND GARNISH

SPECIAL TOOL

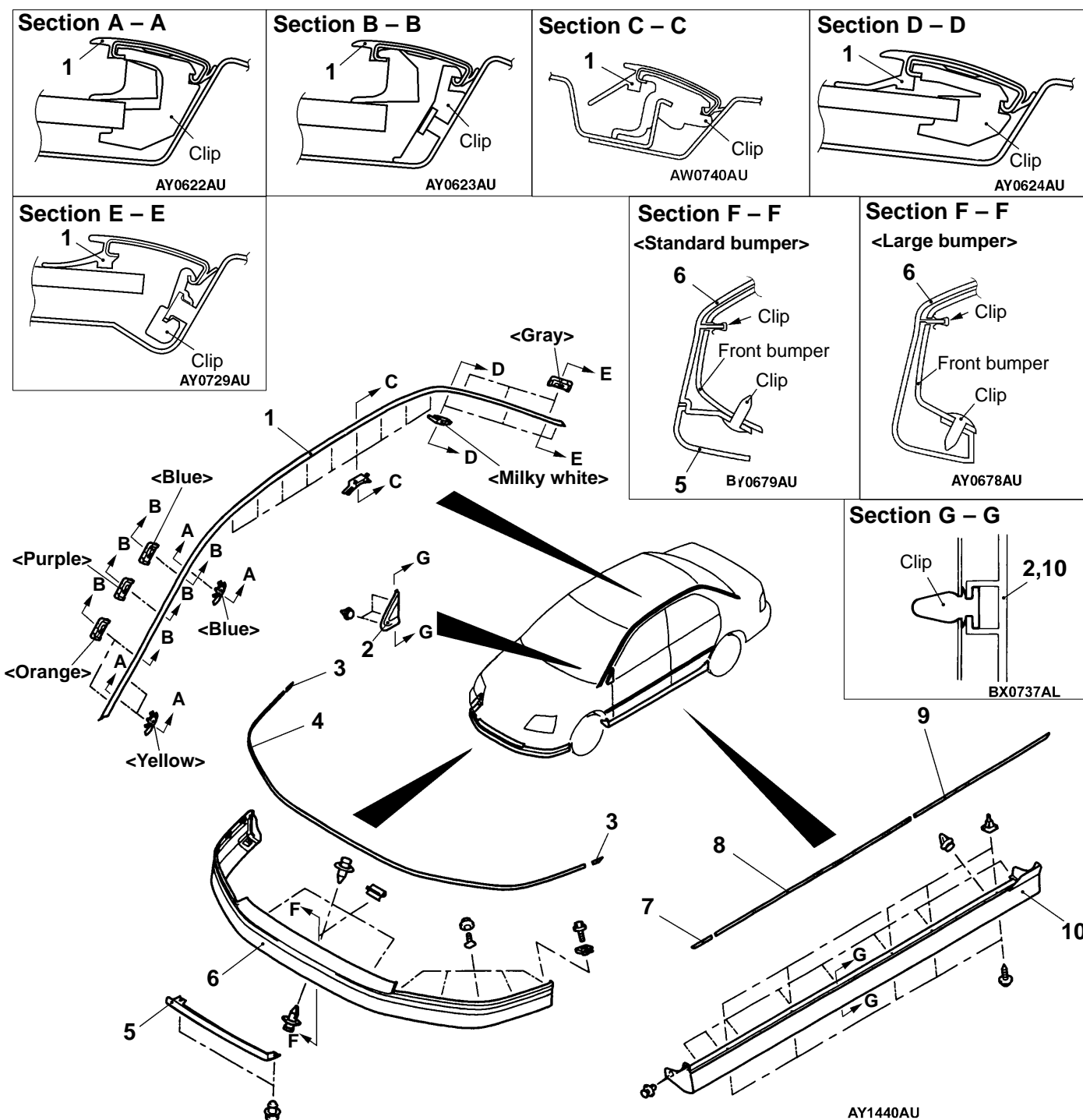
Tool	Number	Name	Application
 B990449	MB990449	Window molding remover	Removal of roof drip molding

ADHESIVE

Application	Brand
Air dam, bumper molding, fender and door molding	Double-sided tape [7 mm width 0.8 mm thickness, 10 mm width 1.2 mm thickness, 5 mm width 0.8 mm thickness]

AIR DAM, MOLDING AND GARNISH

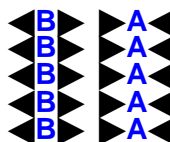
REMOVAL AND INSTALLATION



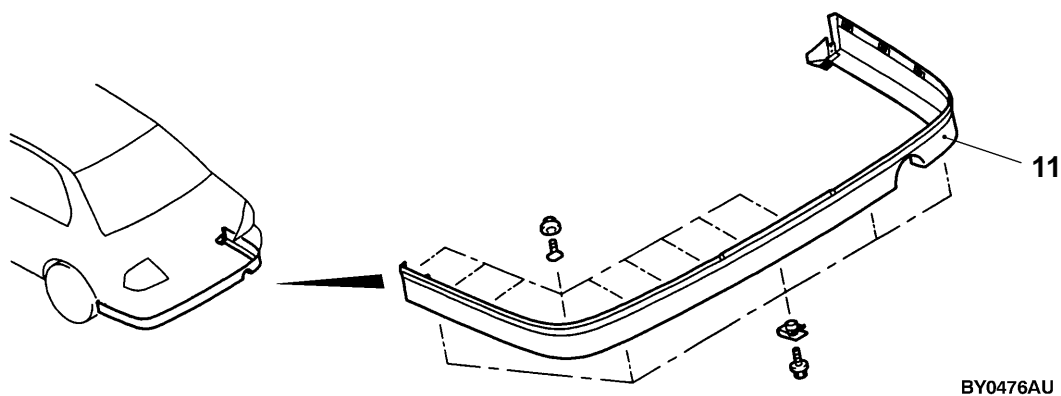
NOTE: For more information refer [removal and installation of front deck garnish](#).



1. Roof drip molding
2. Delta outer garnish
3. Front bumper molding cap
4. Front bumper molding
5. Air dam skirt panel (Vehicles with standard bumper)



6. Front air dam
7. Fender molding
8. Front door molding
9. Rear door molding
10. Side air dam



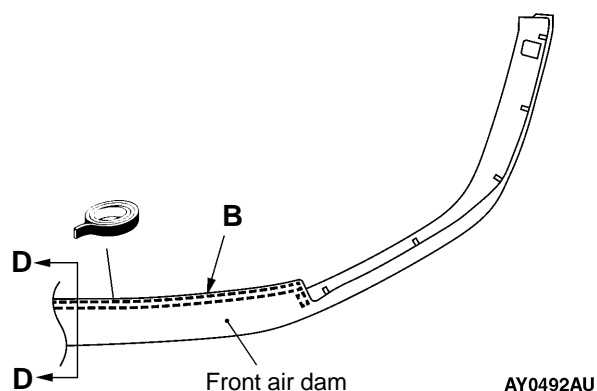
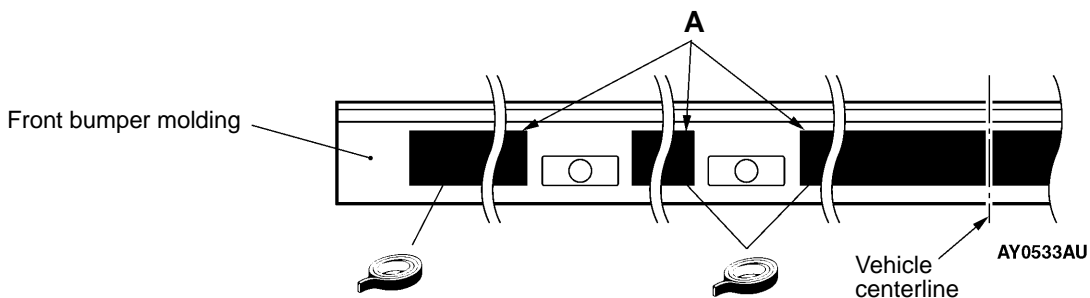
Rear airdam removal Steps

- [Rear bumper assembly](#)

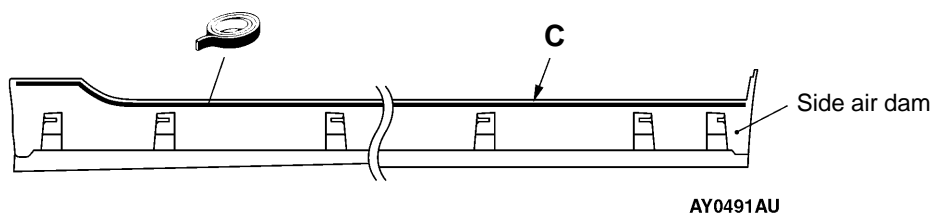
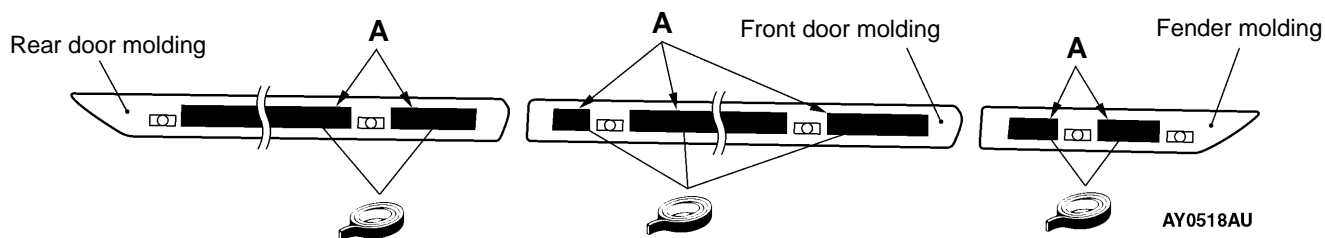
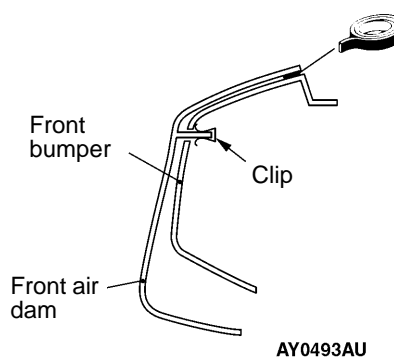


11. Rear air dam

DOUBLE-SIDED TAPE AFFIXED LOCATION

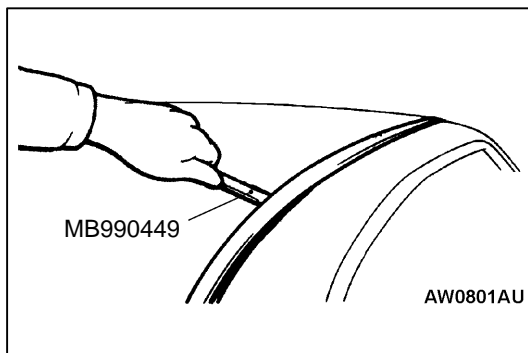


Section D – D



Double-sided tape : Generic products

A : 7mm width, 0.8mm thickness, B : 10mm width, 1.2mm thickness,
C : 5mm width, 0.8mm thickness

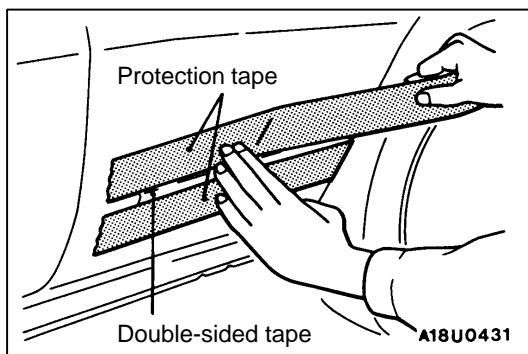


REMOVAL SERVICE POINTS

◀A▶ ROOF DRIP MOLDING REMOVAL

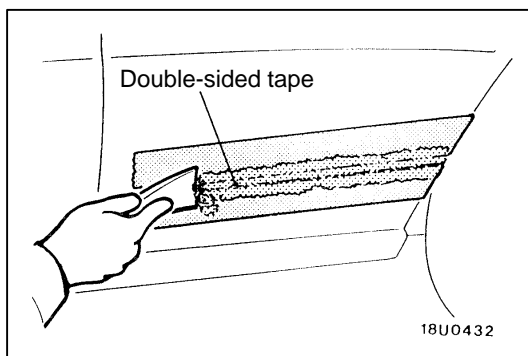
Use the special tool to pry the molding from the rear of the body for removal.

CAUTION: Do not use the deformed mold again.

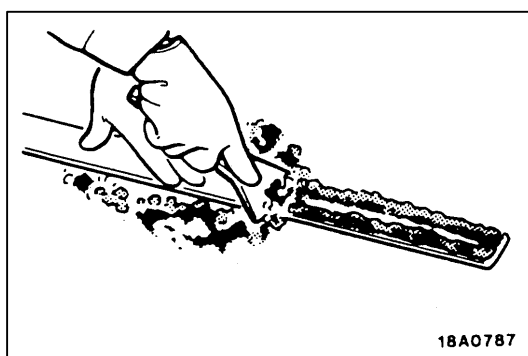


◀B▶ AIR DAM, BUMPER MOLDING, FENDER AND DOOR MOLDING REMOVAL

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.

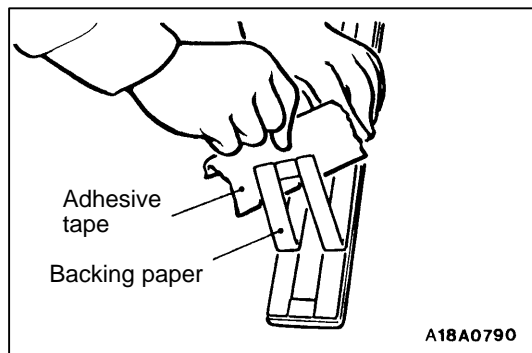


INSTALLATION SERVICE POINTS

▶A◀ AIR DAM, BUMPER MOLDING, FENDER AND DOOR MOLDING INSTALLATION

Double-sided tape affixing to the air dam or the molding (when reusing)

1. Scrape off the double-sided tape with a resin spatula or gasket scraper.
2. Wipe off the air dam or the molding adhesion surface and clean it with a shop towel moistened with isopropyl alcohol.
3. Affix the specified [double sided tape](#) to the air dam or the molding.



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 air dam or the molding.

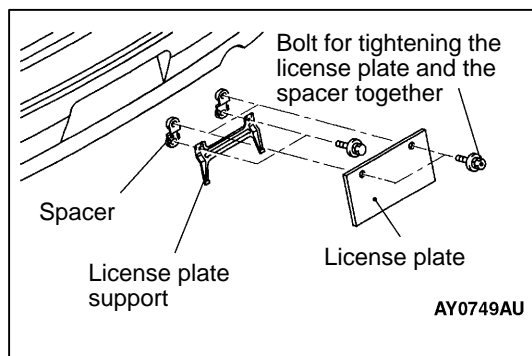
NOTE

If it is hard to affix the double-sided tape in winter, heat the application surfaces at both the vehicle body and the air dam or the molding.

Body 40 – 60 °C

Air dam or molding 20 – 30 °C

Apply pressure fully to the air dam or the molding.



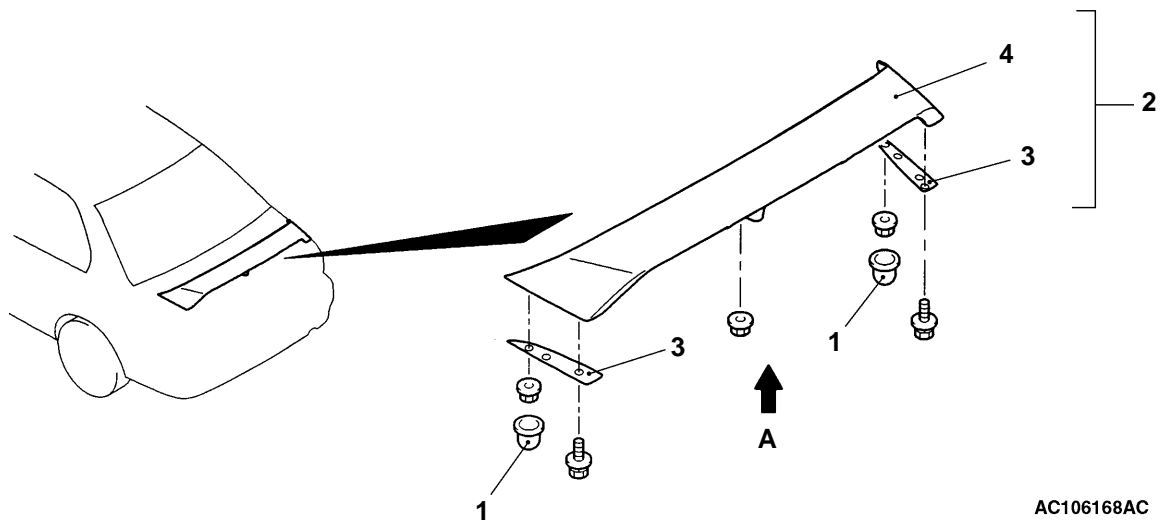
►B◄ REAR AIR DAM INSTALLATION

If the rear air dam is installed to the vehicle with no rear air dam, install the spacers to the back of the license plate and the license plate support as shown in the illustration. The bolt to tighten the license plate and the spacer together has be the one with 6 mm diameter, 22 to 25 mm length, 1mm pitch.

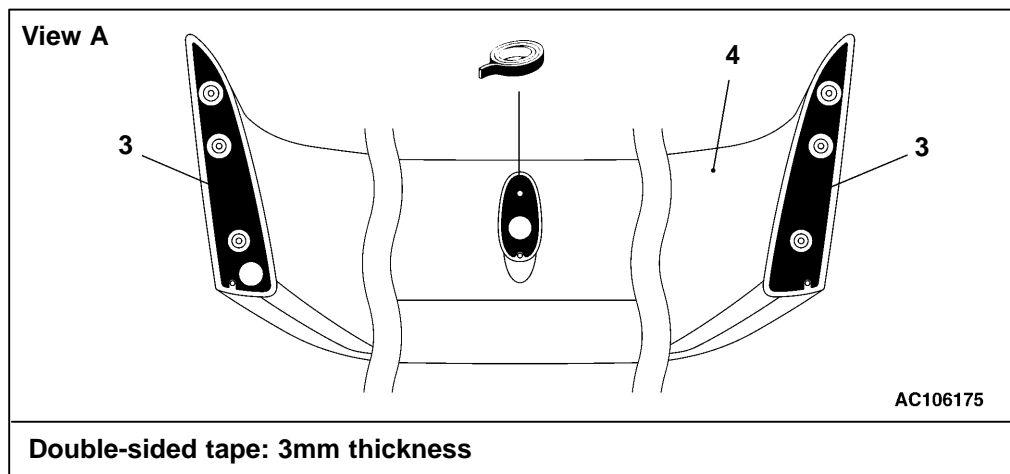
CAUTION: If the bolt with less then 22 mm in length is used, the license plate may come off.

REAR SPOILER

REMOVAL AND INSTALLATION



AC106168AC



Double-sided tape: 3mm thickness

Removal steps

- Trunk lid bumper
- 1. Cap
- 2. Rear spoiler assembly
- 3. Gasket
- High-mounted stop lamp

4. Rear spoiler

NOTE

For the removal and installation service points, Air dam, bumper molding, fender and door molding.

WINDSHIELD WIPER AND WASHER

SERVICE SPECIFICATIONS

Item	Standard value
Stop position of the windshield wiper arm/blade assembly (distance between the edge of the wiper blade and the end of the deck garnish) mm	34 ± 5

ON-VEHICLE SERVICE

WINDSHIELD INTERMITTENT WIPER INSPECTIONS

- (1) Check the change in the intermittent time of the wiper operation by using the windshield intermittent wiper volume.
- (2) Check whether the intermittent time of the wiper operation can be changed corresponding to the vehicle speed when the vehicle is running with the windshield intermittent wiper volume in a fixed position. <where fitted>
- (3) Carry out [troubleshooting](#) if any of them is faulty.

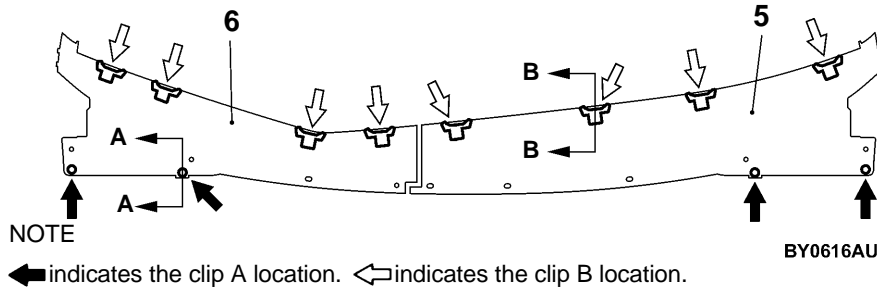
WINDSHIELD WIPER AND WASHER

REMOVAL AND INSTALLATION

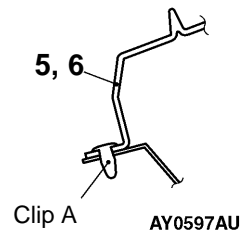
MAIN

Group
51

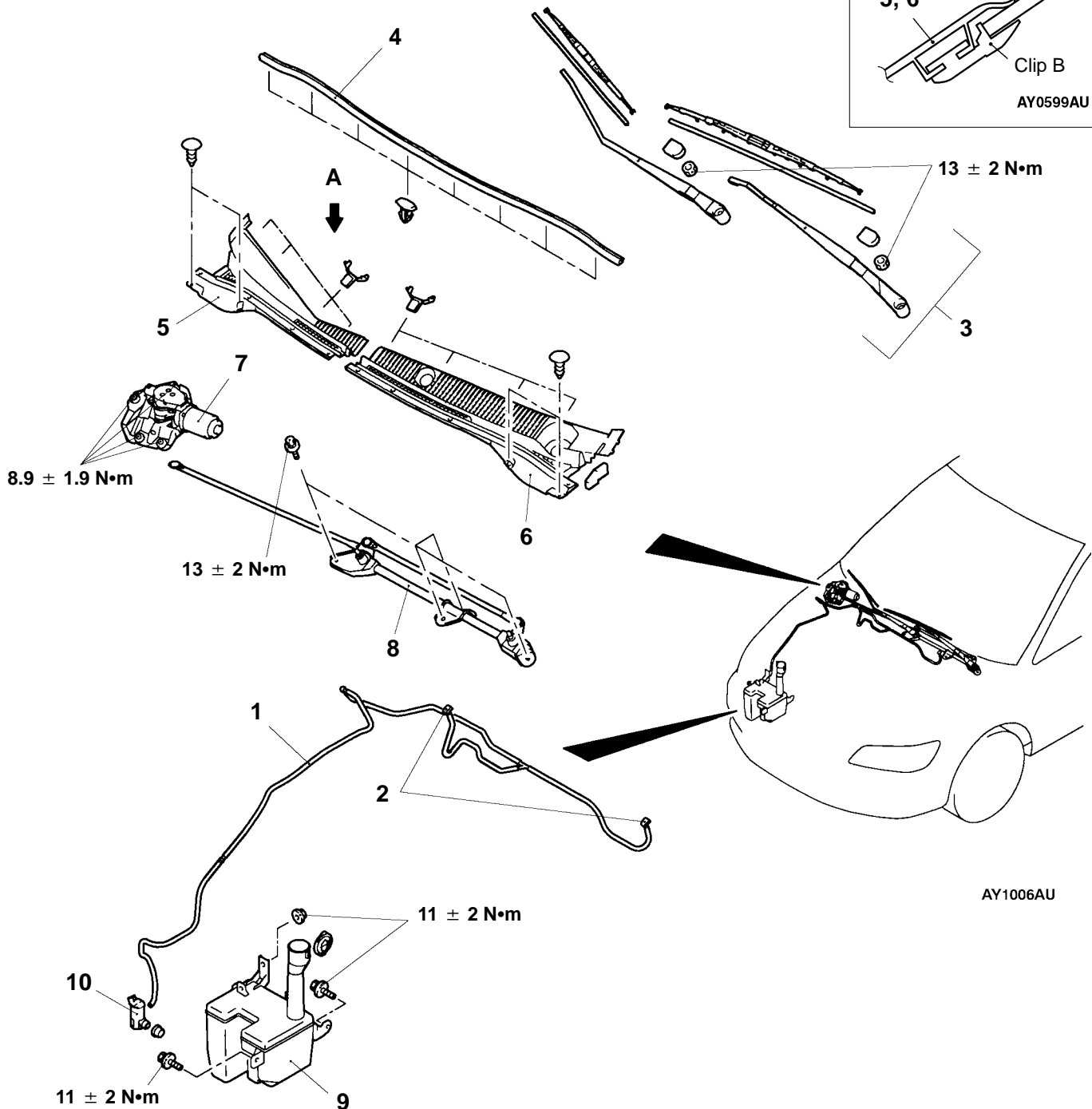
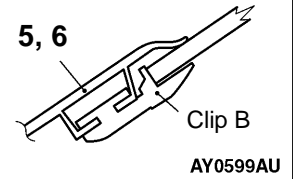
View A



Section A – A



Section B – B



Removal steps for washer hose

- Front splash shield
1. Washer hose

Removal steps for windshield washer nozzle

- Connection of washer hose
2. Windshield washer nozzle

Removal steps for windshield wiper motor assembly and link assembly

3. Wiper arm/blade assembly
4. Hood weather strip

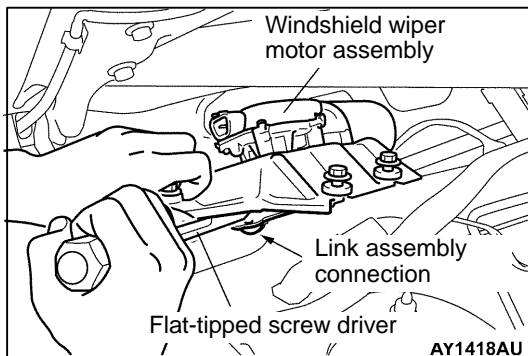


5. Front deck garnish (driver's side)
6. Front deck garnish (passenger's side)
7. Windshield wiper motor assembly
8. Link assembly

Removal steps for washer tank and windshield washer motor assembly

- Side undercover (RH)
 - Front splash shield
 - Connection of front washer hose
9. Washer tank assembly
 10. Washer motor

NOTE: Refer to [Column Switch](#) for removal and installation of wiper washer switch.

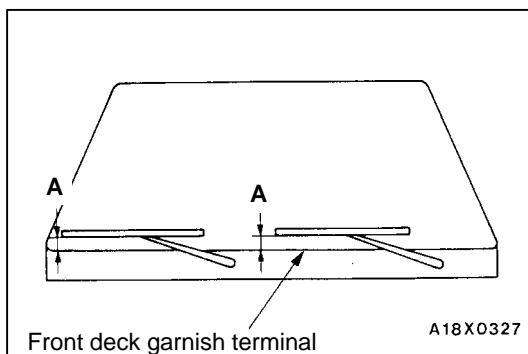


REMOVAL SERVICE POINT

WINDSHIELD WIPER MOTOR ASSEMBLY REMOVAL

1. Remove the windshield wiper motor assembly mounting bolt.
2. Use the flat-tipped screw driver to disengage the link between the windshield wiper motor assembly and the link assembly to remove the windshield wiper motor assembly.

CAUTION: Be careful not to damage the windshield glass when the windshield wiper motor assembly is removed.

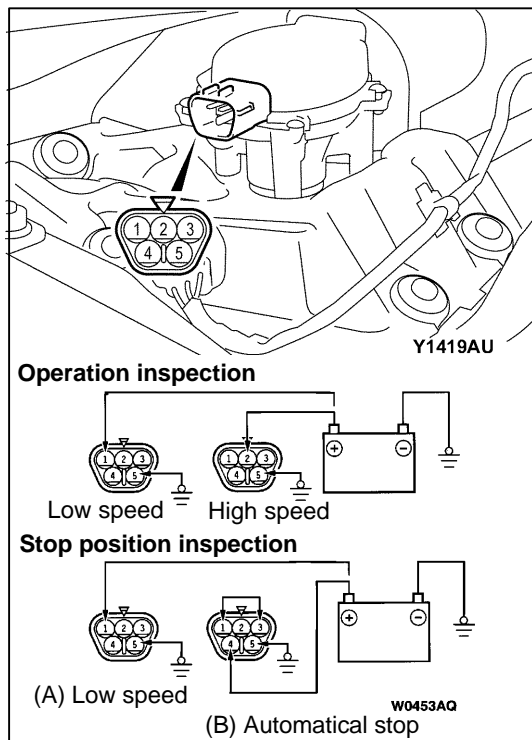


INSTALLATION SERVICE POINT

WIPER ARM/BLADE ASSEMBLY INSTALLATION

Assemble the parts so that the edge of the wiper blade can stop in the specified position (standard value).

Standard value:(A) 34 ± 5 mm



INSPECTIONS

1. INSPECTION OF WINDSHIELD WIPER MOTOR

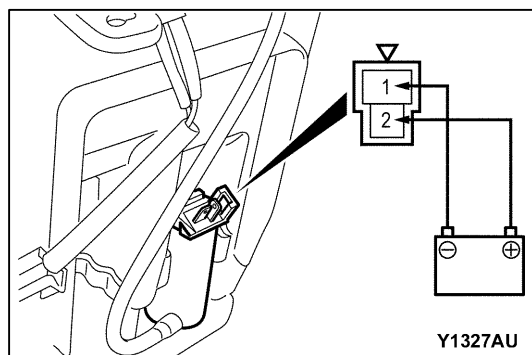
Inspection of windshield wiper motor is conducted by removing the harness connector with the motor attached to the vehicle.

- **Operation inspection of windshield wiper motor rotation in a low or high speed**

Connect the battery to the windshield wiper motor to inspect the operation of motor rotation in a low or high speed

- **Inspection of windshield wiper motor stop position**

- (1) Connect the battery to the windshield wiper motor to rotate the motor in a low speed as shown in the illustration (A) and disconnect the battery during rotation to stop the motor.
- (2) Connect between the terminals and the battery as shown in the illustration (B) and confirm whether the motor stops at the automatic stop position after rotating in a low speed.



2. INSPECTION OF WASHER MOTOR

- (1) The inspection of washer motor is conducted with the washer hose connected after removing the washer tank assembly and pouring water in the washer tank.
- (2) Check that the water is supplied with strong pressure after energizing terminal number 2 with battery voltage and earthing terminal number 1.

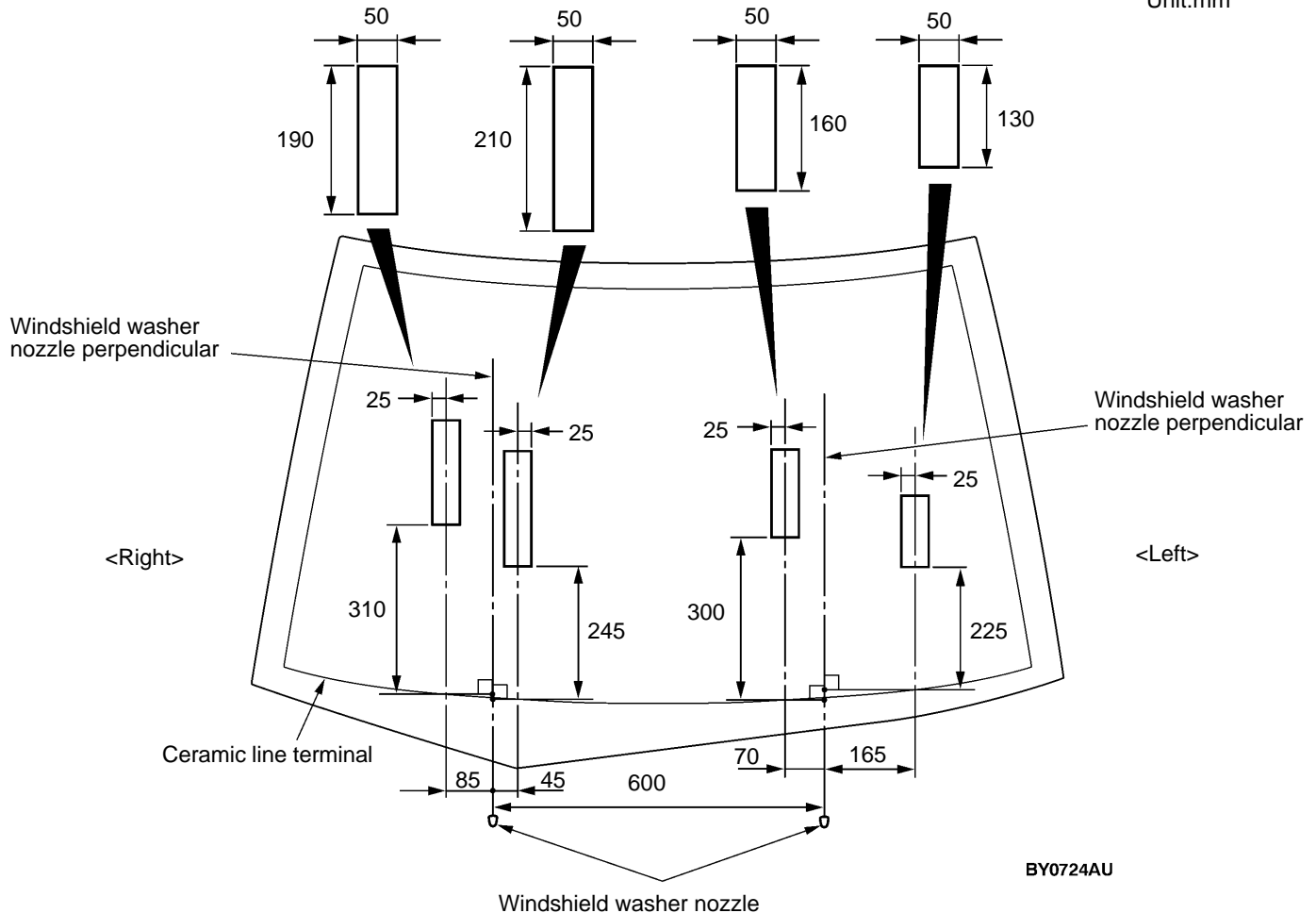
3. INSPECTION OF WINDSHIELD WASHER NOZZLE INJECTION POSITION

Move the nozzle to adjust the position so that the injection can be done in an area shown in the illustration.

Caution

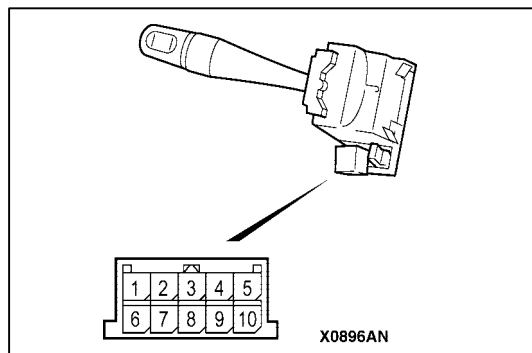
On R.H. drive vehicles, the illustration is symmetrical.

Unit:mm



4. INSPECTION OF WINDSHIELD WIPER/WASHER SWITCH

The effectiveness of windshield wiper/washer switch can be judged by input signal inspection.

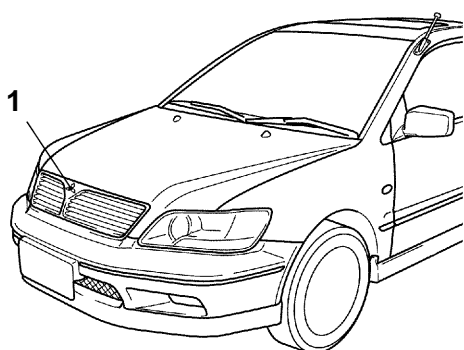


5. INSPECTION OF WINDSHIELD INTERMITTENT WIPER VOLUME

Check that the resistance varies between 0 and 1 k Ω when the windshield intermittent volume is turned from FAST to SLOW by after measuring resistance between connector terminals 4 and 6 at the column switch.

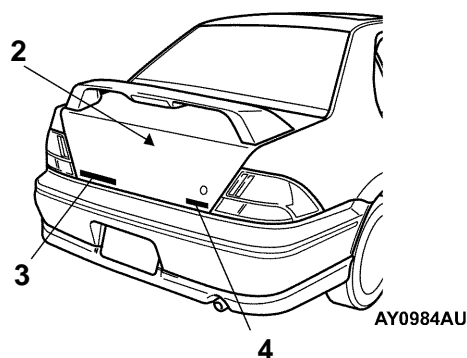
MARKS

REMOVAL AND INSTALLATION



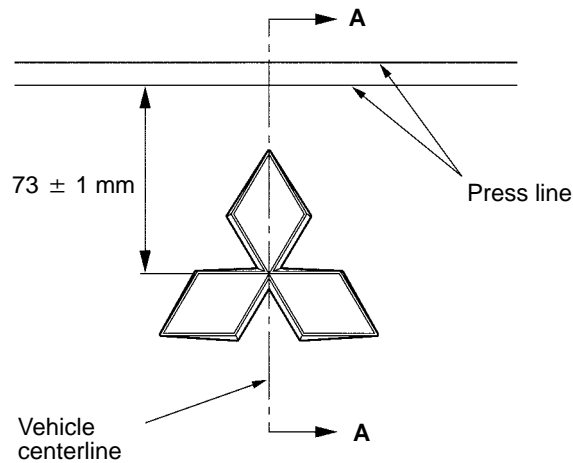
AY1294AU

- 1. Three-diamond mark
- 2. Three-diamond mark

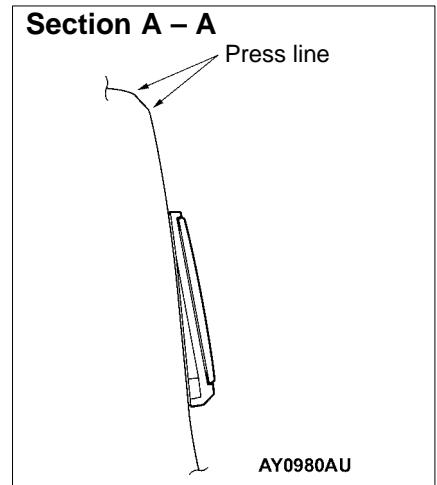
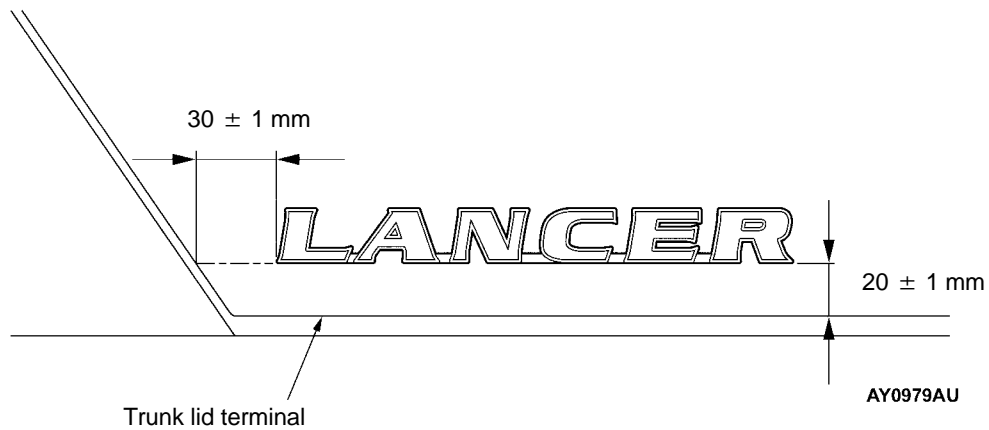


AY0984AU

- 3. Lancer mark
- 4. Grade mark

INSTALLATION SERVICE POINT**►A◄ ATTACHMENT OF EACH MARK****1. ATTACHED POSITION****(2) Three-diamond mark**

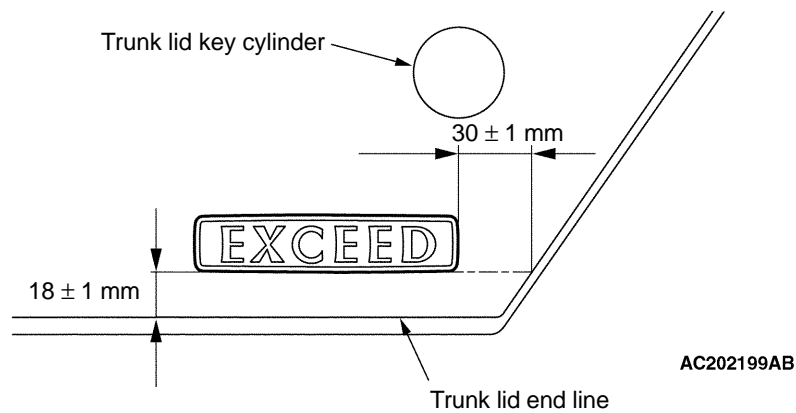
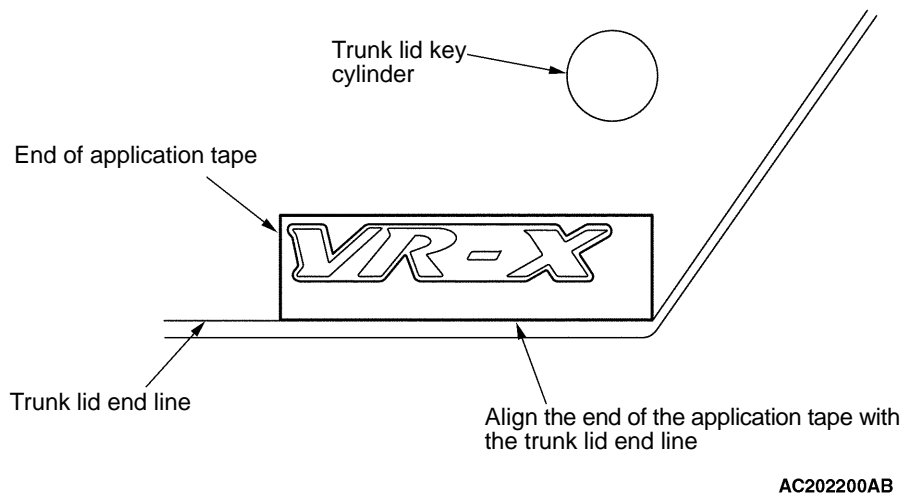
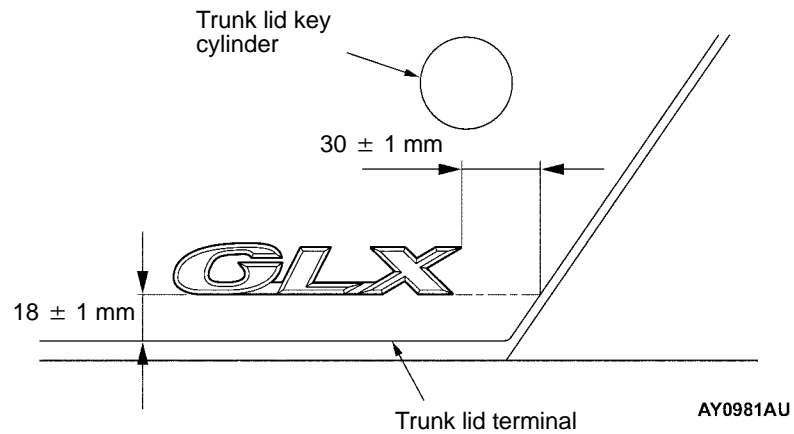
AY0978AU

**(3) Lancer mark**

AY0979AU

(4) Grade mark

Indicates the sample of GLX, VR-X or EXCEED. Adjust the bottom and right end of other grades to the measurement of this grade.



2.INSTALLATION STEPS

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.

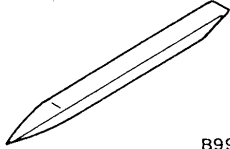
Caution

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

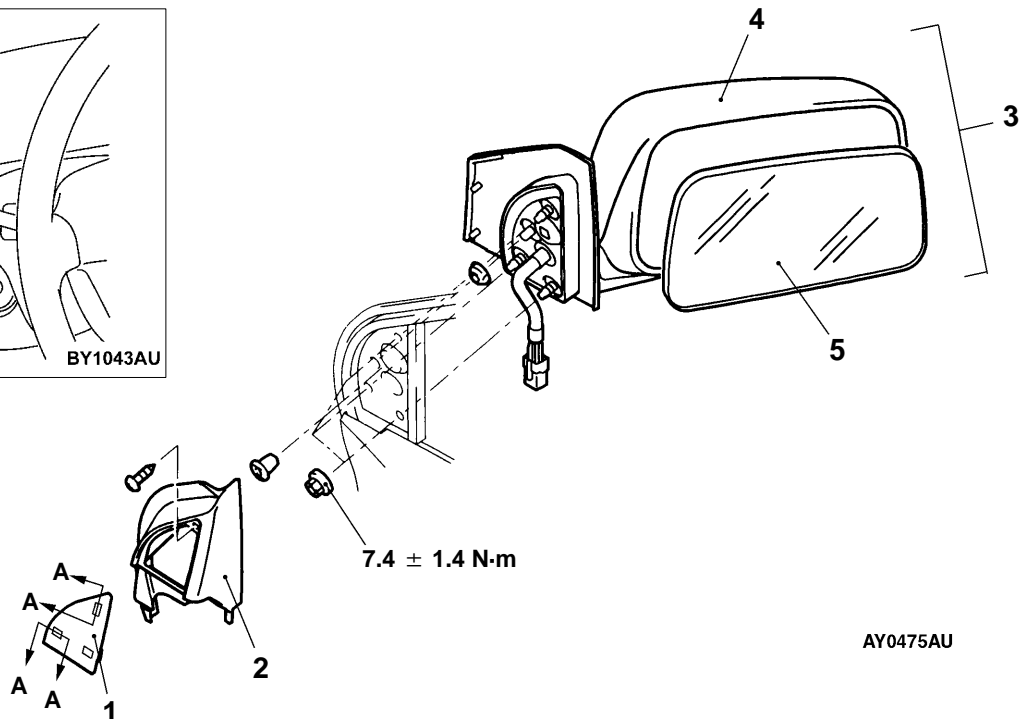
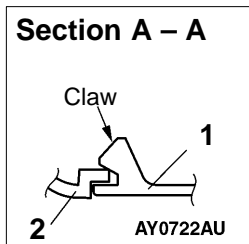
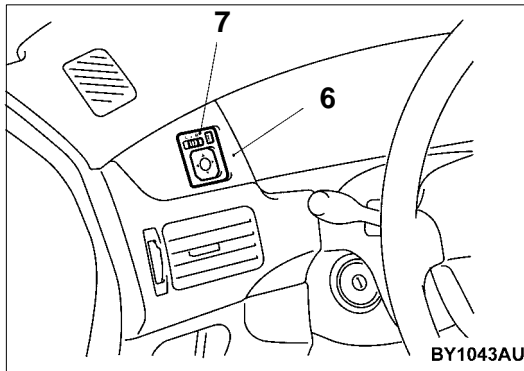
If the surrounding temperature is lower than 20°C, the marks and the places on the body where the marks are to be attached should be heated to 20 – 38°C.

OUTSIDE MIRROR

SPECIAL TOOL

Tool	Number	Name	Application
 B990784	MB990784	Ornament remover	Removal of power remote control outside mirror switch

REMOVAL AND INSTALLATION

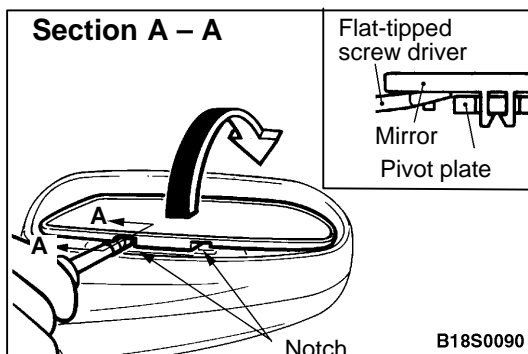


Removal steps for outside mirror

1. Cover
2. Delta inner cover
3. Outside mirror assembly
4. Outside mirror
5. Mirror

Removal steps for remote control outside mirror switch

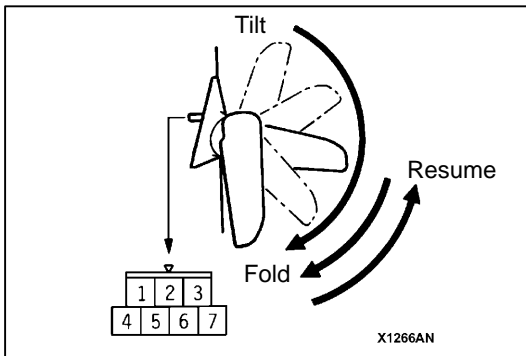
6. Instrument panel ornament (Refer to [Instrument Panel.](#))
7. Remote control mirror switch



REMOVAL SERVICE POINT

◀A▶ REMOVAL OF MIRROR

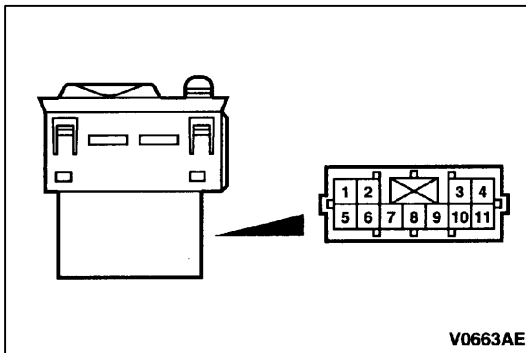
Tilt the mirror upward, insert the flat-tipped screw driver wrapped around with the protection tape between the notch located behind the mirror and pivot plate, and pry off the mirror.



INSPECTIONS

Operation inspection of mirror with power retractable function

Battery connection terminal					Operation of mirror or mirror assembly
2	3	5	6	7	
		⊖		⊕	Up
		⊕		⊖	Down
		⊕	⊖		Left
		⊖	⊕		Right
⊖	⊕				Resume or tilt forward " fold position
⊕	⊖				Fold " resume position

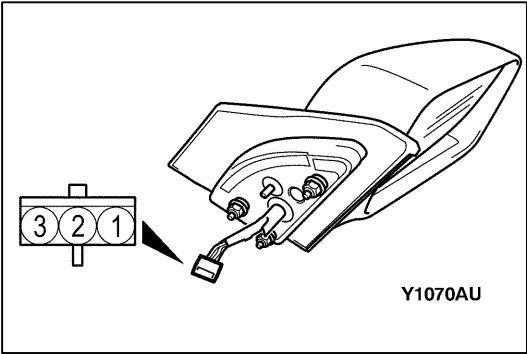


Continuity inspection of power remote control mirror switch

Switch	Switch position	Terminal number										
		Left					Right					
		1	6	9	10	11	1	2	3	6	9	4
Mirror adjustment switch	Up	○	○			○	○	○	○	○		
	Down		○	○			○	○	○	○		
	Left	○		○	○		○	○		○	○	
	Right	○	○				○	○	○	○		
Mirror retracting switch	Resume or fold			○	○			○				○
Illumination											○	○

NOTE

Only the vehicles with electric retractable door mirror are equipped with the mirror retracting switch and illumination.



REMOTE CONTROLLED MIRROR ASSEMBLY CHECK

BATTERY CONNECTION TERMINAL			DIRECTION OPERATION
1	2	3	
⊖		⊕	Up
⊕		⊖	Down
⊖	⊕		Right
⊕	⊖		Left