
EXTERIOR

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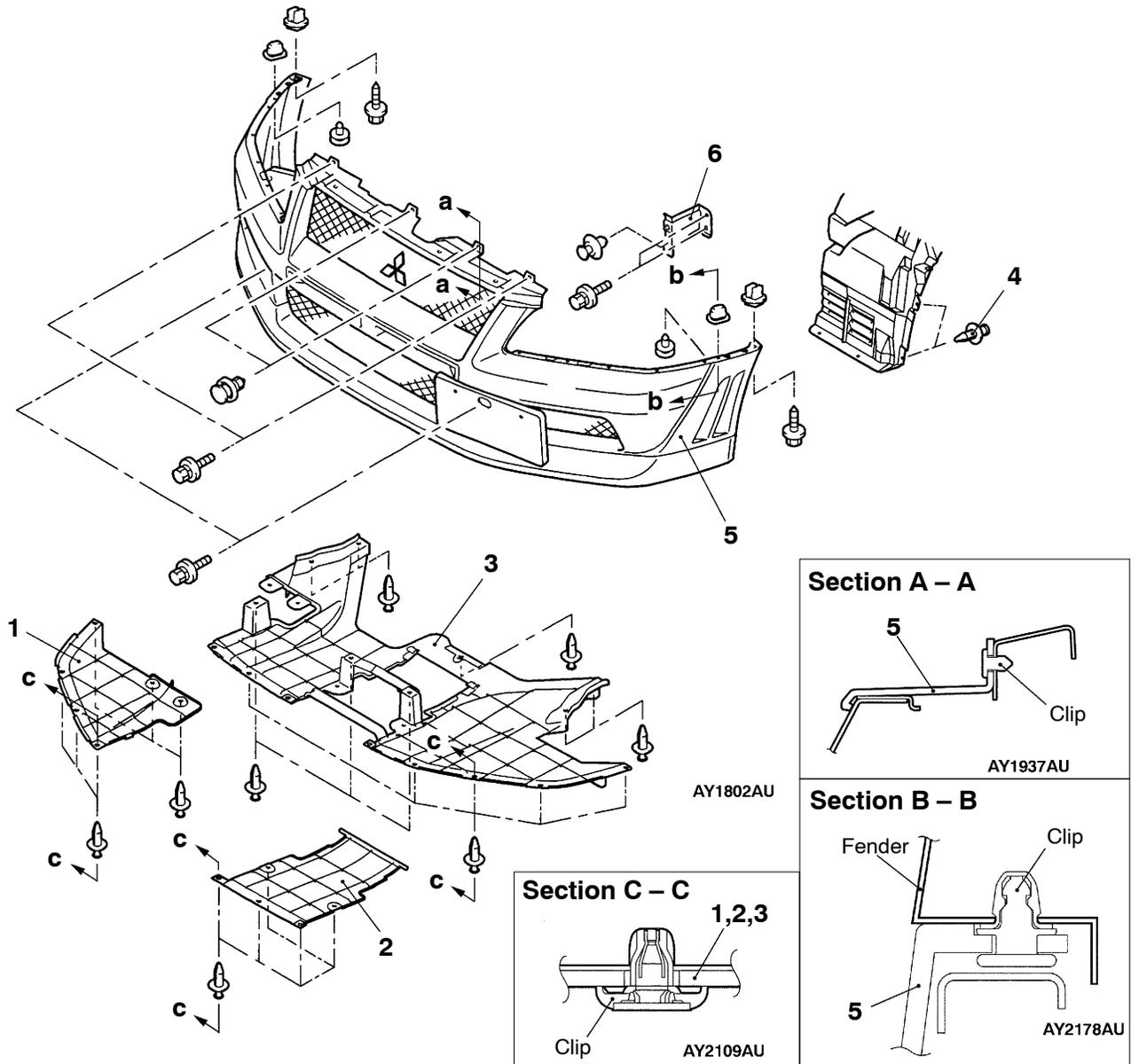
FRONT BUMPER

ADHESIVE

Application	Brand
Front air dam	Double-sided tape [10 mm width 1.2 mm thickness]

FRONT BUMPER

REMOVAL AND INSTALLATION

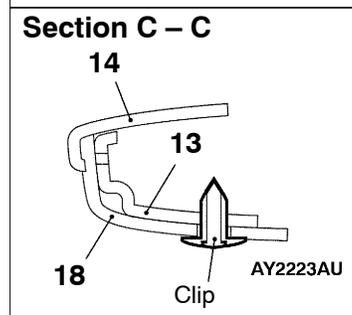
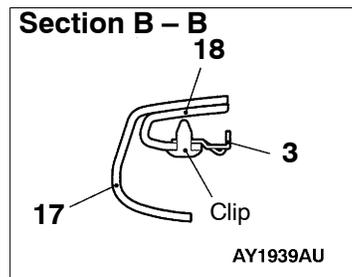
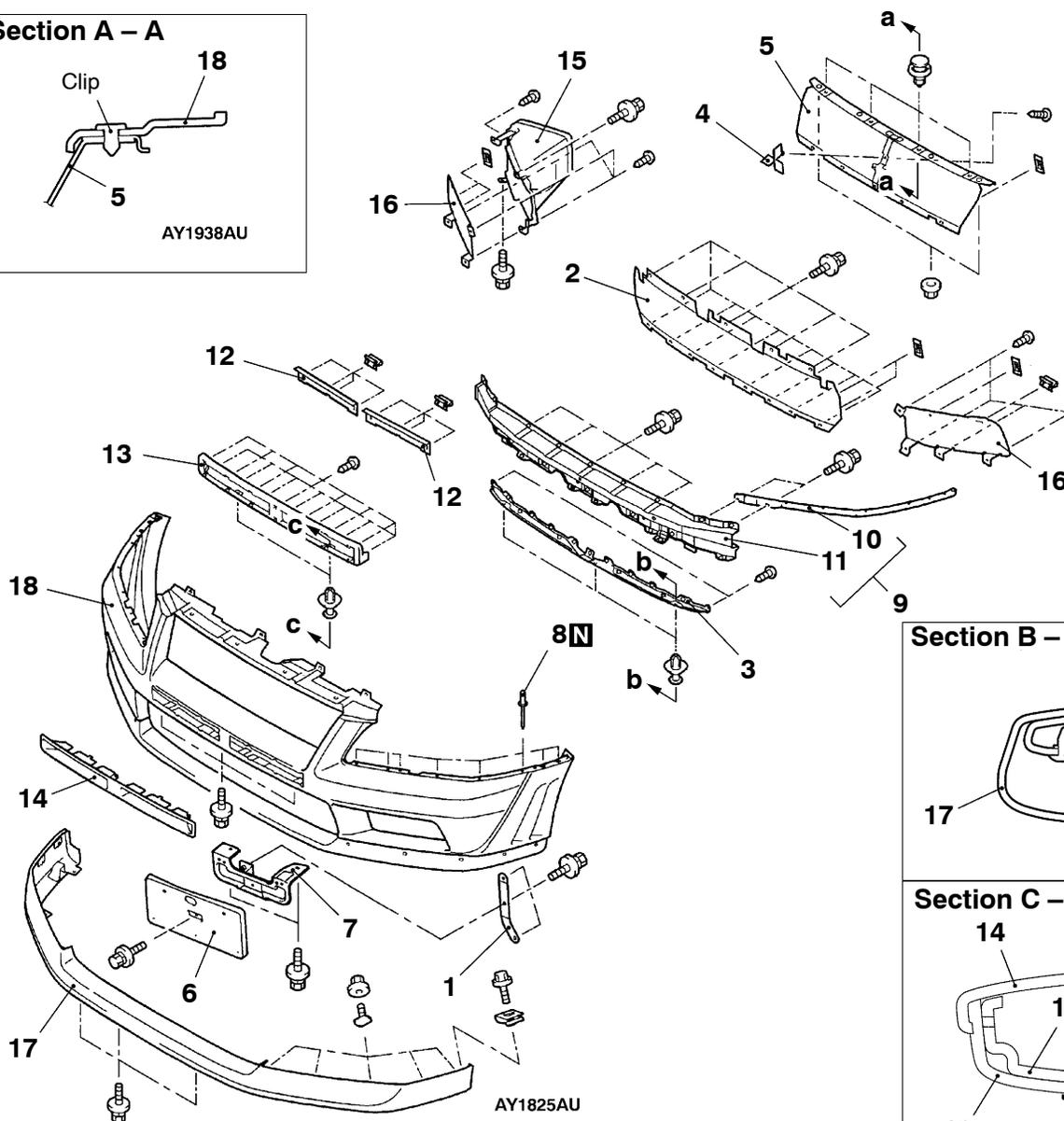
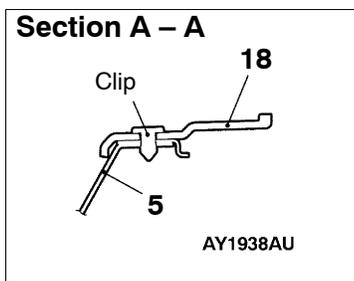


Removal steps

1. Side under cover
2. Center under cover
3. Front under cover
4. Splash shield installation clip

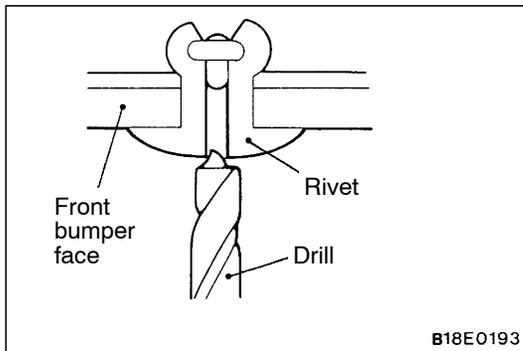
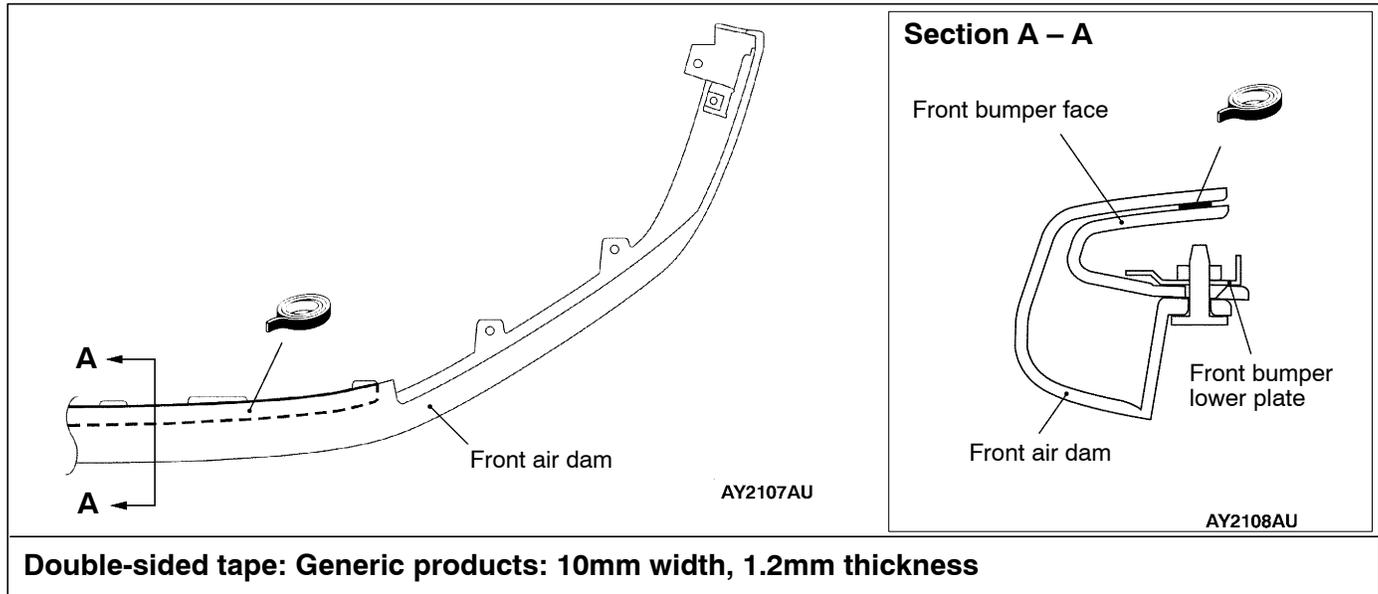
- Water spray hose connection (Refer to Group 15.)
- 5. Front bumper assembly
- 6. Front bumper stay

DISASSEMBLY AND REASSEMBLY



Disassembly steps

- | | | |
|---------|--|--|
| | 1. Front bumper plate | 10. Front bumper side blade |
| ▶C◀ | 2. Front bumper center net | 11. Front bumper center reinforcement
● Water spray hose and nozzle
(Refer to GROUP 15.) |
| | 3. Front bumper lower plate | 12. Bezel net |
| | 4. Three-diamond mark | 13. Inner bracket |
| | 5. Front bumper upper reinforcement assembly | 14. Front bumper bezel |
| | 6. License plate garnish | 15. Oil cooler duct |
| | 7. License plate bracket | 16. Front bumper side net |
| ◀A▶ ▶B▶ | 8. Rivet | 17. Front air dam |
| | 9. Front bumper side blade and front center reinforcement assembly | 18. Front bumper face |
| | | ◀B▶ ▶A▶ |



DISASSEMBLY SERVICE POINTS

◀A▶ RIVET REMOVAL

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

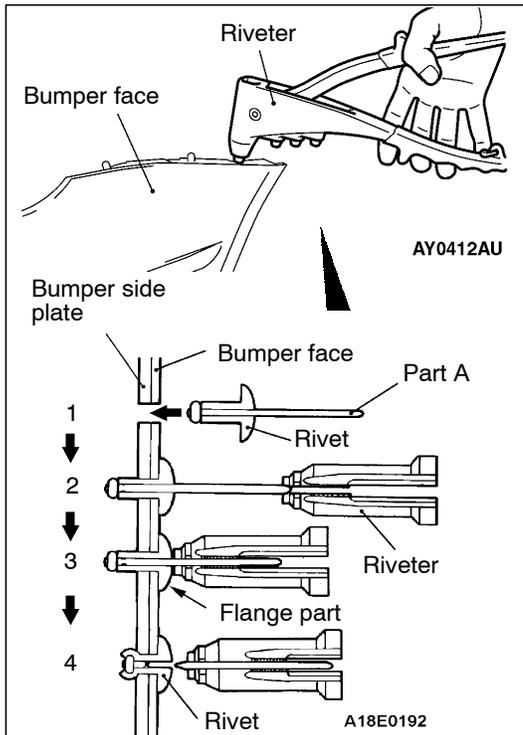
◀B▶ FRONT AIR DAM REMOVAL

The same procedures are applied as that of the removal of side air dam. (Refer to P.51-10.)

REASSEMBLY SERVICE POINTS

▶A◀ FRONT AIR DAM INSTALLATION

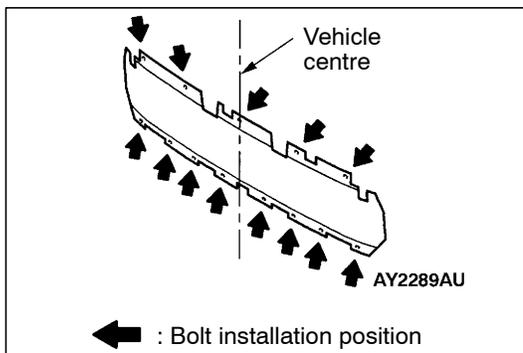
The same procedures are applied as that of the installation of side air dam. (Refer to P.51-10.)



►B◄ RIVET INSTALLATION

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. Maneuver 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.



◄C► FRONT BUMPER CENTER NET REMOVAL

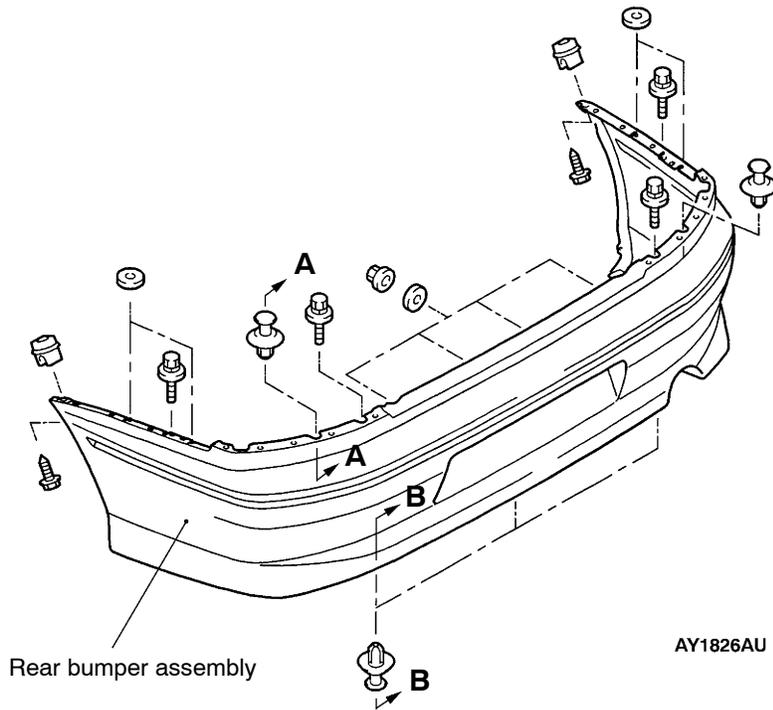
Tighten the front bumper center net mounting bolt from the vehicle centre line.

REAR BUMPER

REMOVAL AND INSTALLATION

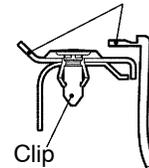
Pre-removal and post-installation operations

- Removal and installation of rear combination lamp (Refer to GROUP 54A.)
- Removal and installation of rear end trim, washer tank lid and AYC reservoir tank lid (Refer to GROUP 52A – Trim.)
- Removal and installation of rear splash shield



Section A – A

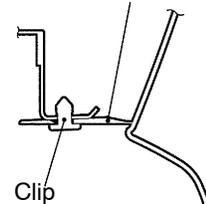
Rear bumper assembly



AY1940AU

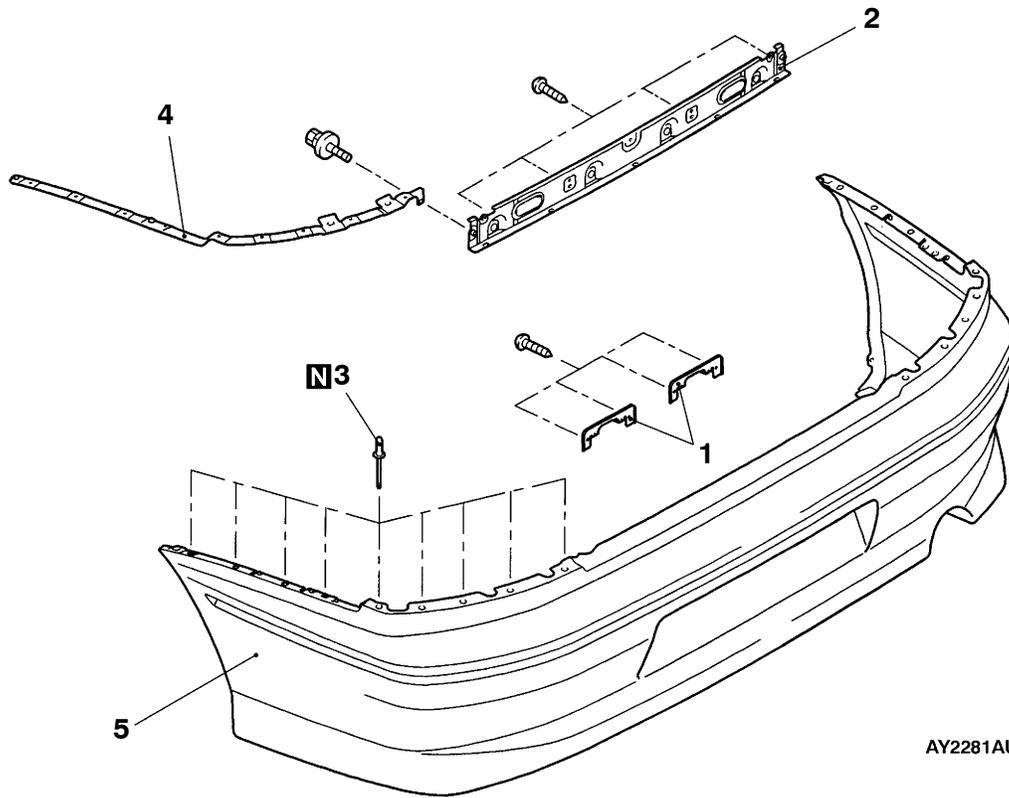
Section B – B

Rear bumper assembly



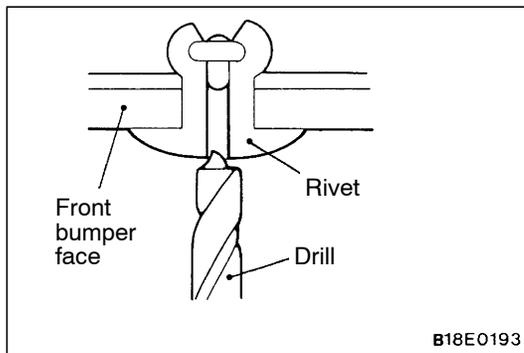
AY1941AU

DISASSEMBLY AND REASSEMBLY



Disassembly steps

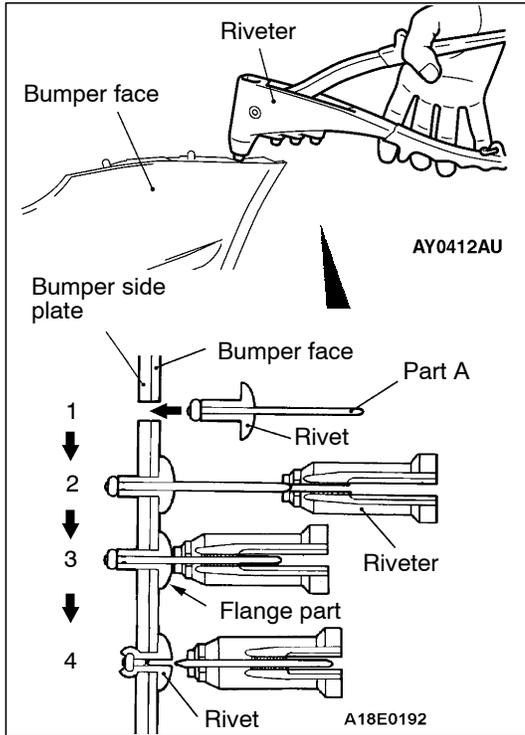
- | | |
|-------------------------------------|---------------------------|
| 1. License plate bracket | 4. Rear bumper side plate |
| 2. Rear bumper center reinforcement | 5. Rear bumper face |
| 3. Rivet | |



DISASSEMBLY SERVICE POINTS

◀▶ RIVET REMOVAL

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



REASSEMBLY SERVICE POINTS

▶◀ RIVET INSTALLATION

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

1. Insert the rivet into the main materials (rear bumper face and rear bumper side plate.)
2. Insert the recommended tool into Part A of the rivet.
3. Maneuver 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.

SIDE AIR DAM, MOLDING AND GARNISH

SPECIAL TOOL

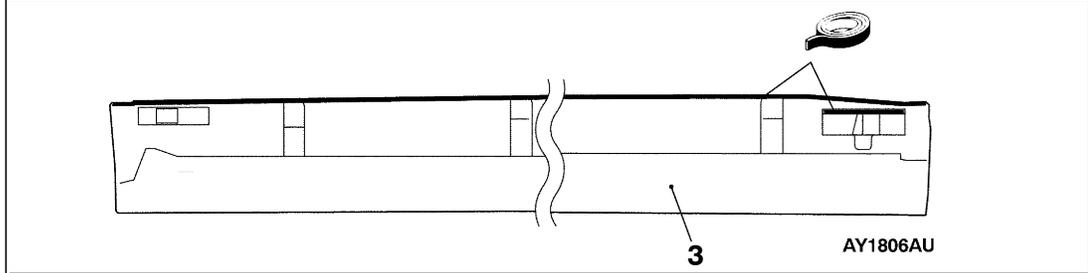
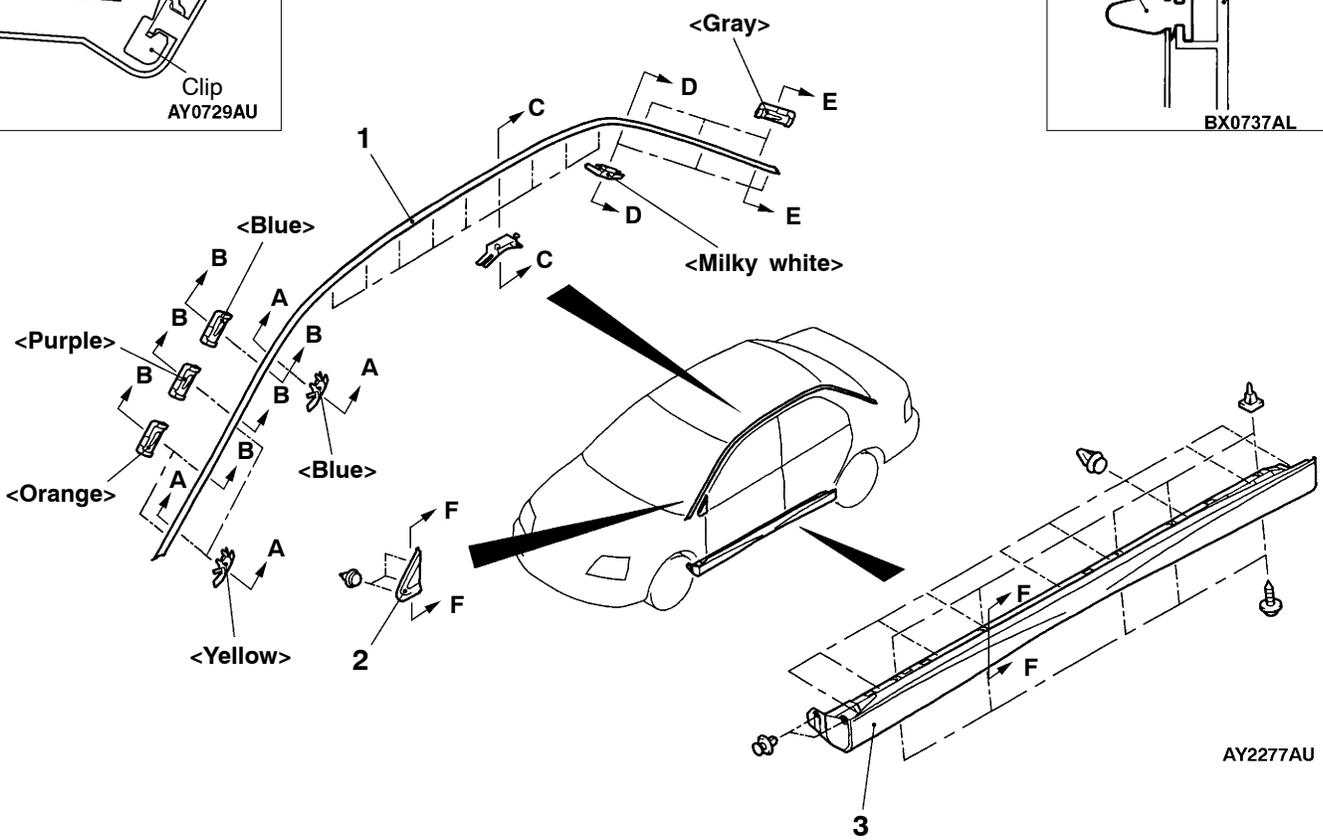
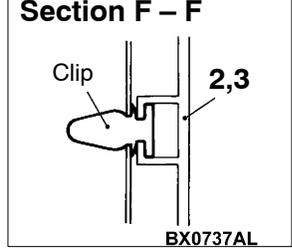
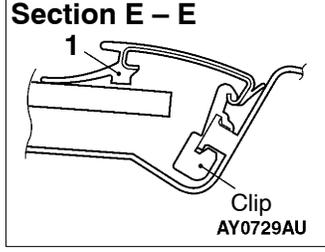
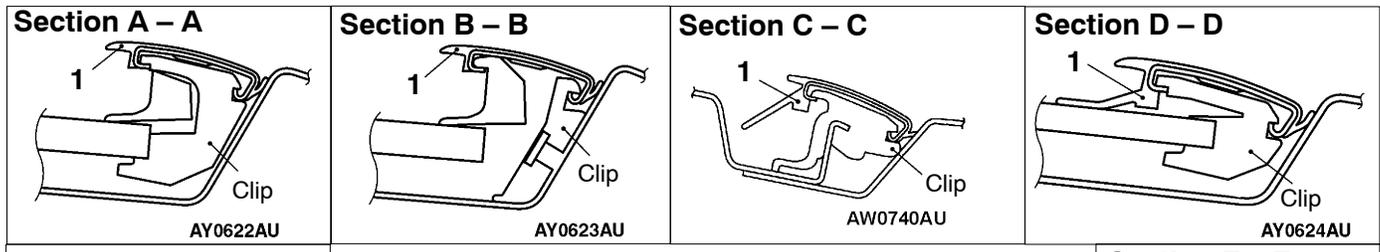
Tool	Number	Name	Application
<p>B990449</p>	MB990449	Window molding remover	Removal of roof drip molding

ADHESIVE

Application	Brand
Side air dam	Double-sided tape [5 mm width 1.2 mm thickness]

SIDE AIR DAM, MOLDING AND GARNISH

REMOVAL AND INSTALLATION



Double-sided tape: Generic products: 5mm width, 1.2mm thickness

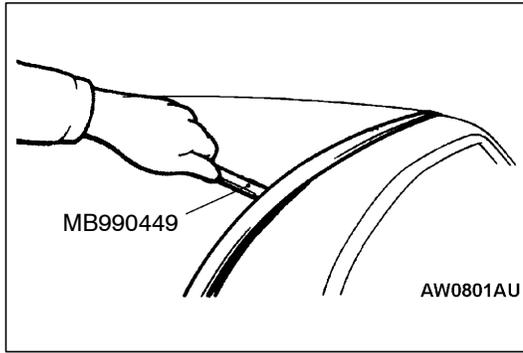
NOTE: Refer to P.51-14 for more information regarding removal and installation of front deck garnish.



1. Roof drip molding
2. Delta outer garnish



3. Side air dam



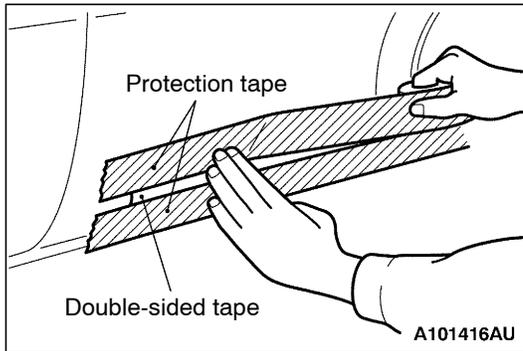
REMOVAL SERVICE POINTS

◀A▶ ROOF DRIP MOLDING REMOVAL

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

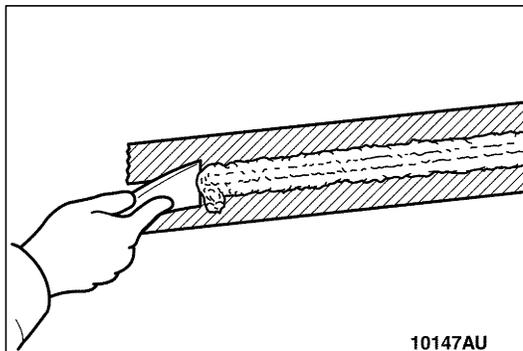
Caution

Do not use the deformed mold again.

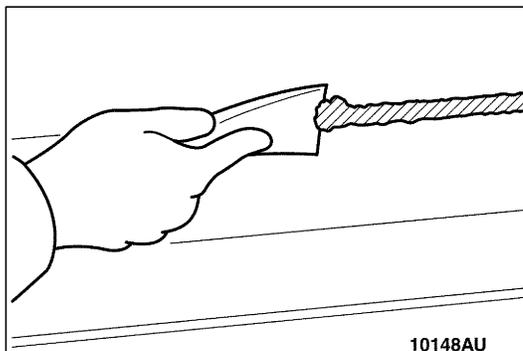


◀B▶ SIDE AIR DAM REMOVAL

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.

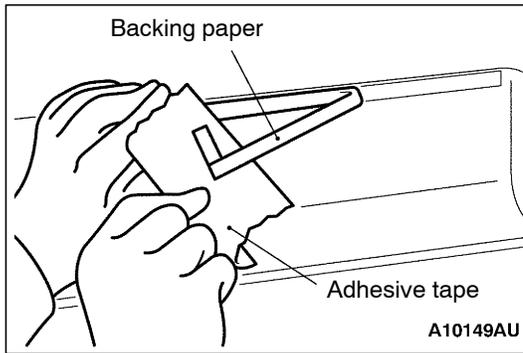


INSTALLATION SERVICE POINTS

▶A◀ SIDE AIR DAM INSTALLATION

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

1. Scrape off the double-sided tape with a resin spatula or gasket scraper.
2. Wipe off the side air dam adhesion surface and clean it with a shop towel moistened with isopropyl alcohol.
3. Affix the specified double sided tape to the side air dam. (Refer to P.51-9.)



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. (Refer to P.51-9.)

5. Install the side air dam.

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 air dam.

Body 40 - 60 °C

Side air dam 20 - 30 °C

Apply pressure fully to the side air dam.

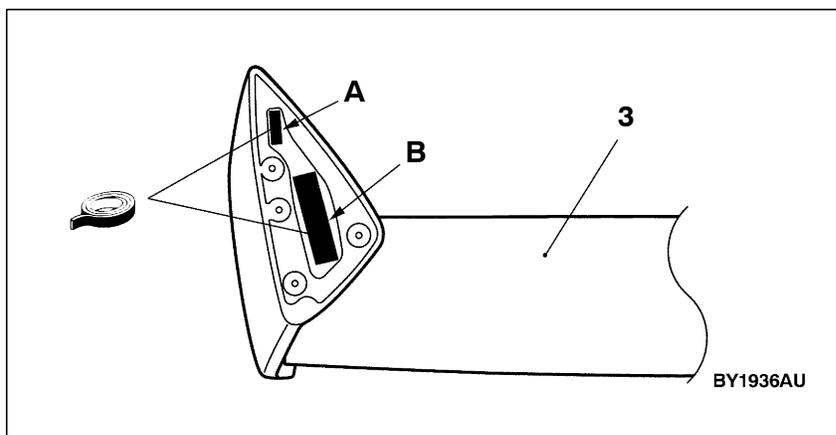
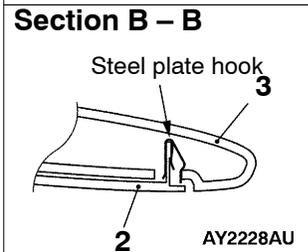
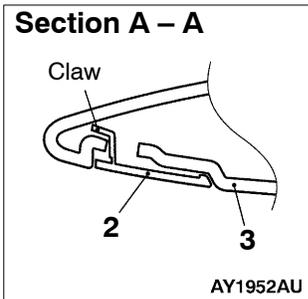
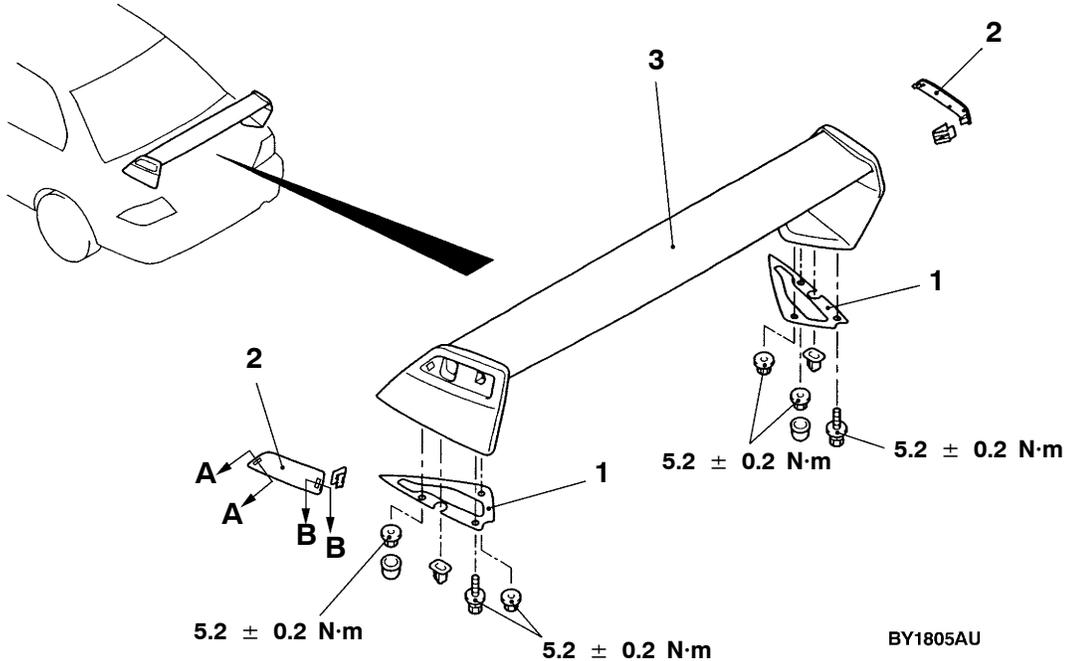
REAR SPOILER

ADHESIVE

Application	Brand
Rear spoiler	Double-sided tape [15 mm width 1.2 mm thickness, 30 mm width 1.2 mm thickness]

REAR SPOILER

REMOVAL AND INSTALLATION



Double-sided tape:
Generic products: A : 15mm width, 1.2mm thickness,
 B : 30mm width, 1.2mm thickness

Removal steps

- Trunk lid bumper
(Refer to Group 42.)
- 1. Gasket
- 2. Cap
- 3. Rear spoiler

NOTE:

The removal and installation service points are the same as SIDE AIR DAM , MOLDING AND GARNISH.
(Refer to P.51-10)



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

TROUBLESHOOTING

The windshield wiper-washer is controlled by the smart wiring system (SWS). Refer to Group 54B for troubleshooting.

NOTE

If ETACS-ECU is faulty, the windshield wiper can be operable in LO mode only as the fail-safe function. (Normally the windshield wiper is operable when the ignition switch is turned to the ACC position. When the fail-safe function is enabled, it is operable only when the ignition switch is turned to the ON position.)

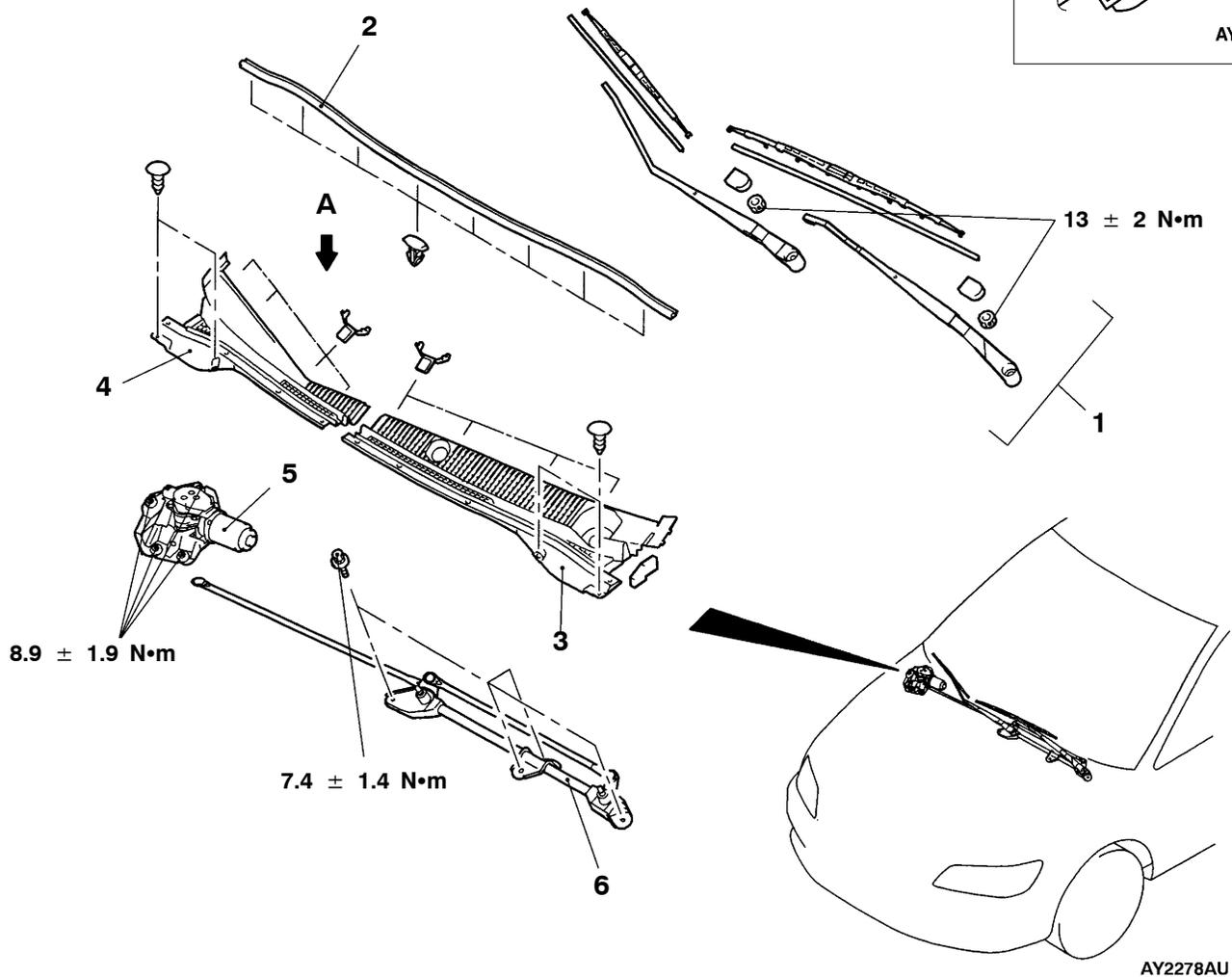
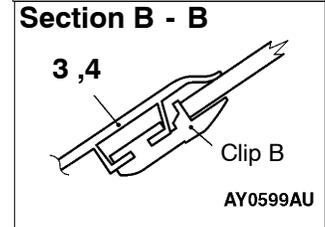
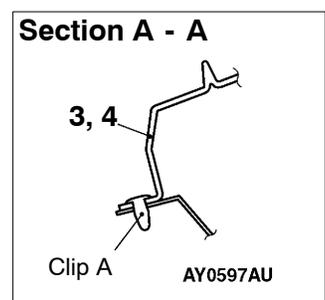
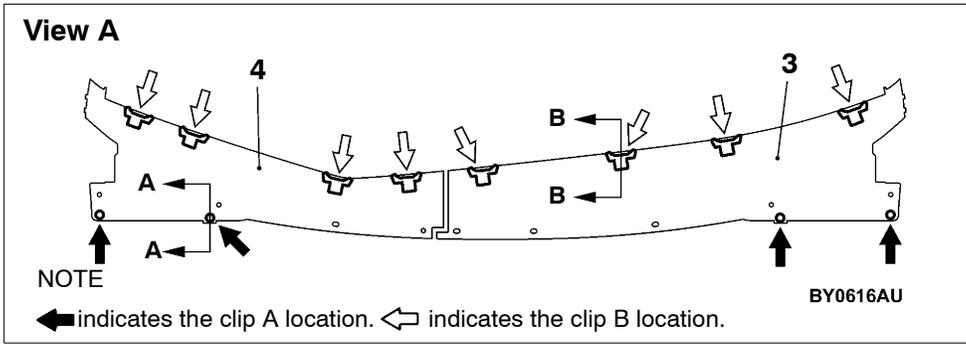
ON-VEHICLE SERVICE

WINDSHIELD INTERMITTENT WIPER INSPECTIONS

- (1) Check the change in the intermittent time of the wiper operation by using the windshield intermittent wiper volume.
- (2) Carry out troubleshooting if any of them is faulty. (Refer to Group 54B.)

WINDSHIELD WIPER AND WASHER

REMOVAL AND INSTALLATION



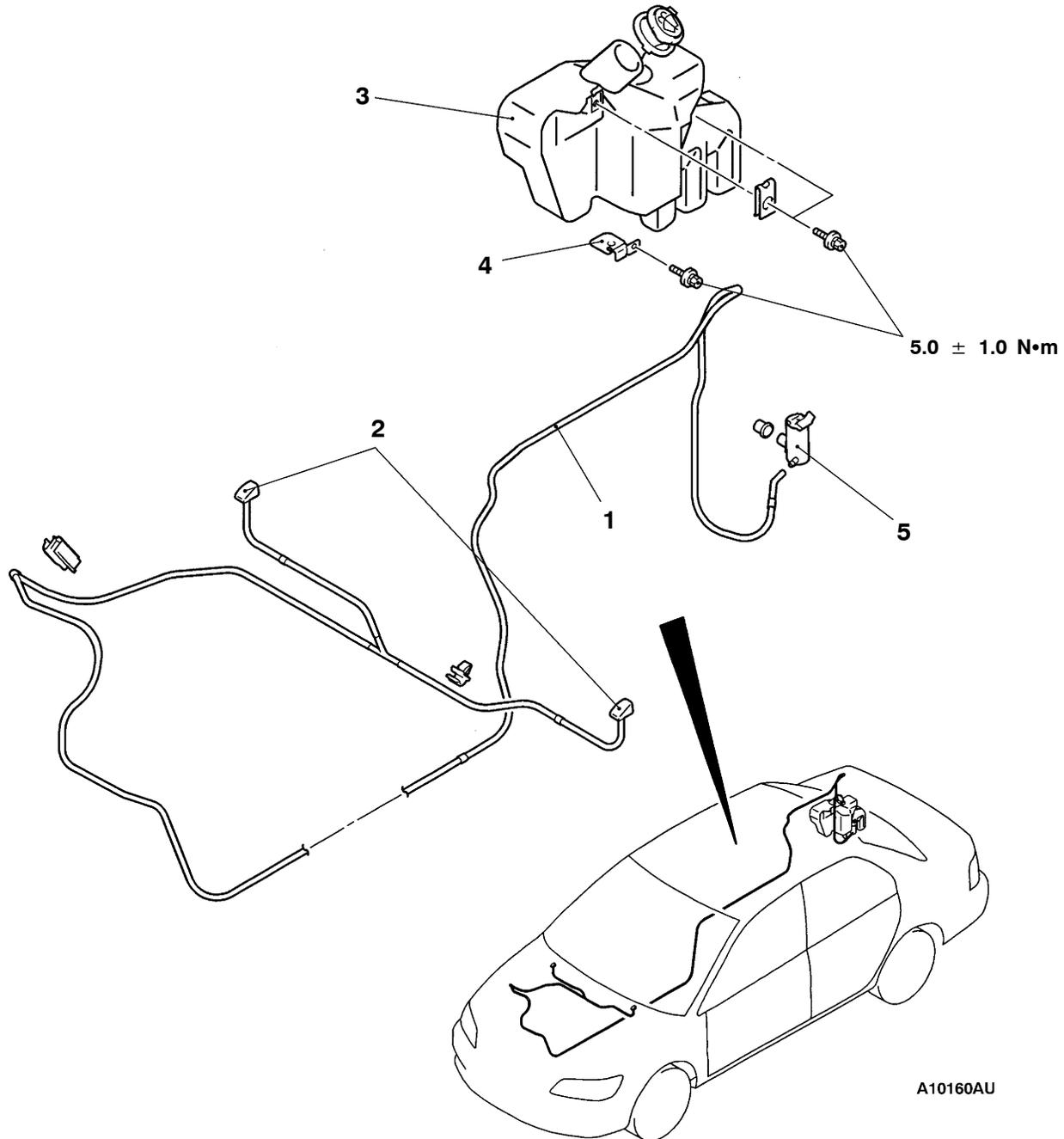
Windshield wiper motor assembly and link assembly removal steps



1. Wiper arm/blade assembly
2. Hood weather strip
3. Front deck garnish (driver's side)



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



NOTE: Refer to P.51-19 for more information regarding removal and installation of rear washer nozzle.

Washer hose removal steps

- Splash shield <Right side> (Refer to GROUP 42 – Fender.)
 - Cowl side trim, front scuff plate, center pillar trim, lower, rear scuff plate (Refer to GROUP 52A – Trim.)
 - Rear seat (Refer to GROUP 52A – Seat.)
1. Washer hose

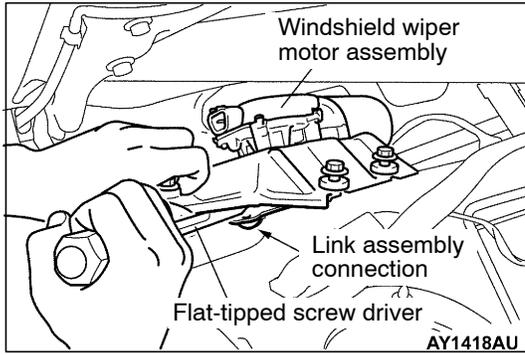
Windshield washer nozzle removal steps

- Connection of washer hose
2. Windshield washer nozzle

Washer tank and windshield washer motor assembly removal steps

- Rear end trim, trunk side trim (Refer to GROUP 52A – Trim.)
 - Connection of front washer hose
3. Washer tank assembly
 4. Washer tank bracket
 5. Washer motor

NOTE: Refer to GROUP 54A– Column Switch for removal and installation of wiper washer switch.



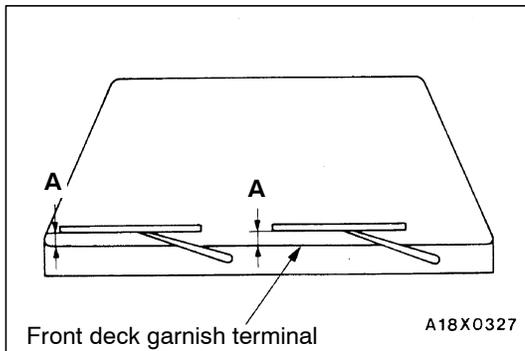
REMOVAL SERVICE POINT

◀A▶ 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.

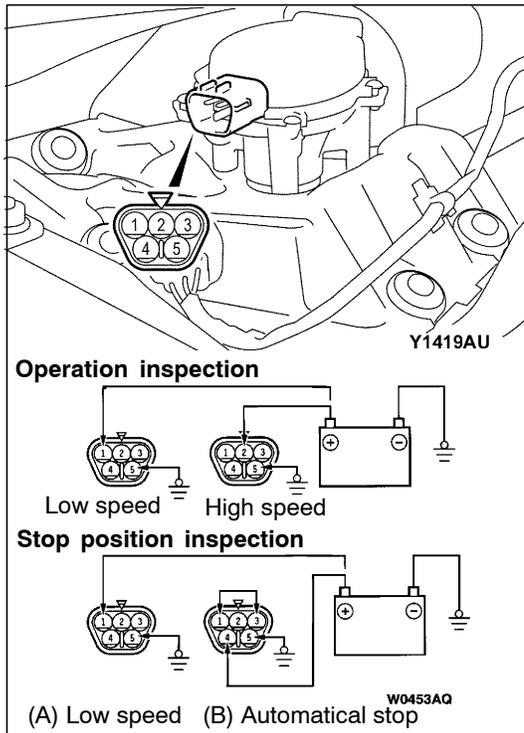


INSTALLATION SERVICE POINT

▶A◀ 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

WINDSHIELD WIPER MOTOR CHECK

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

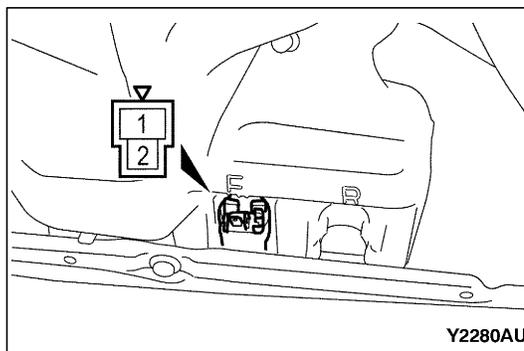
- **Operation inspection of windshield wiper motor rotation in a low or high speed**

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.



FRONT WASHER MOTOR CHECK

(1) The inspection of front washer motor is conducted with the washer hose connected after removing the washer tank assembly and pouring water in the washer tank.

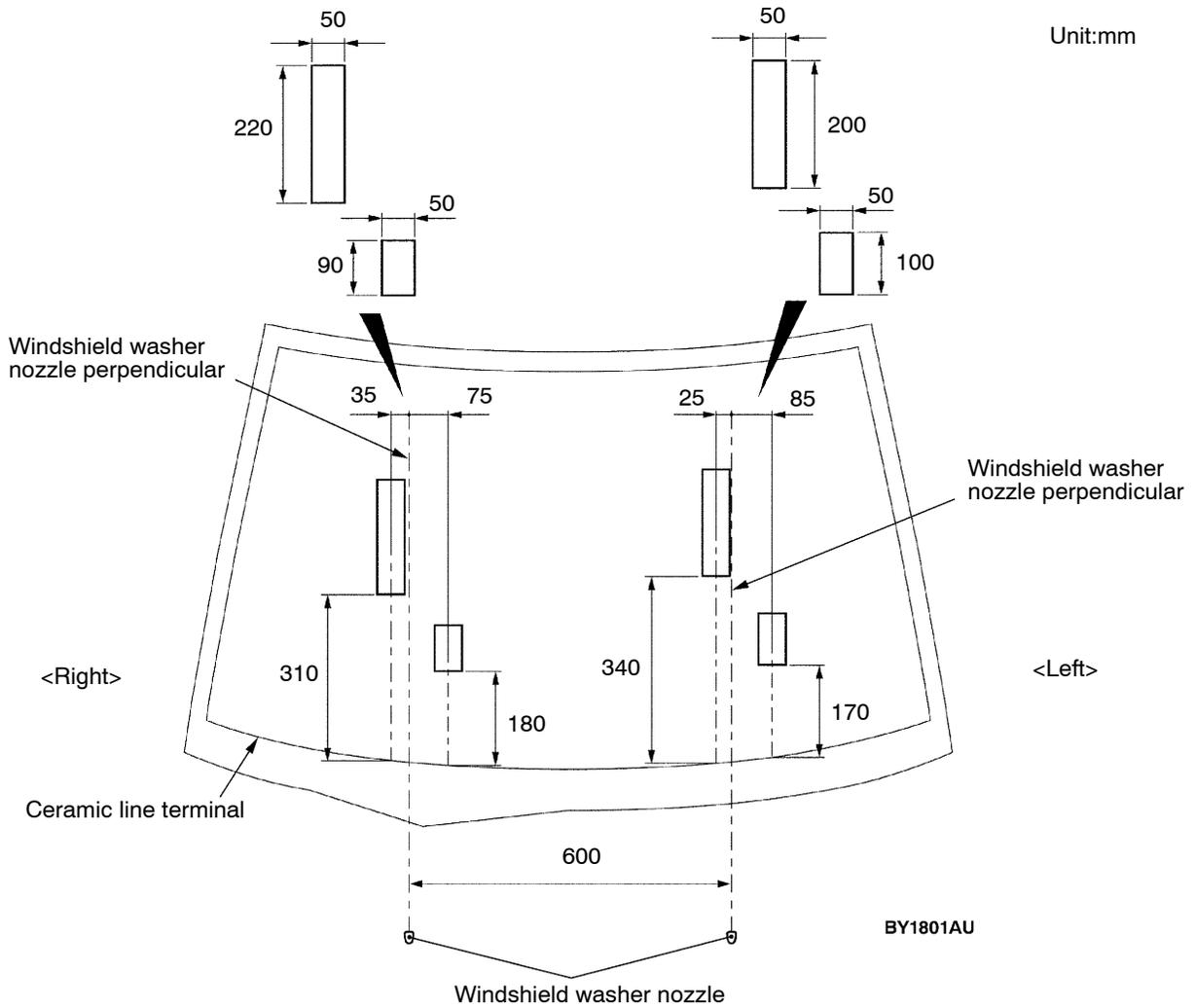
(2) Check that the water is supplied with strong pressure after energizing terminal number 2 with battery voltage and earthing terminal number 1.

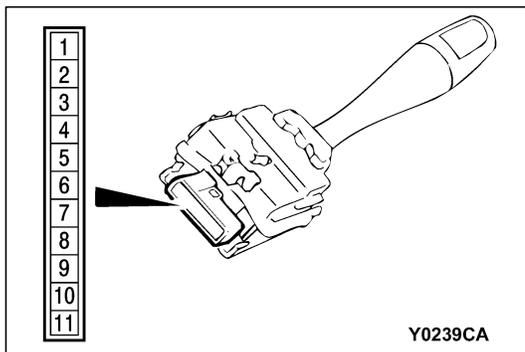
WINDSHIELD WASHER NOZZLE INJECTION POSITION CHECK

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.





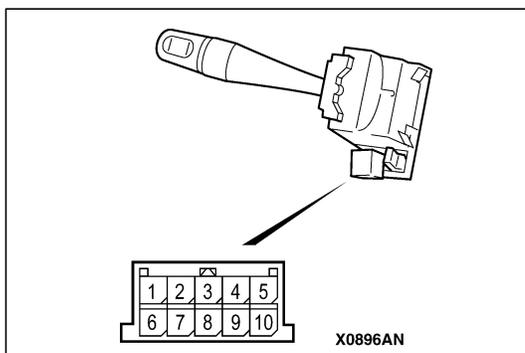
WINDSHIELD WIPER AND WINDSHIELD WASHER SWITCH AND WINDSHIELD INTERMITTENT WIPER INTERVAL ADJUSTING KNOB CHECK

<L.H.drive vehicles>

- (1) Windshield wiper and washer switch, rear wiper and washer switch.

Switch position	Terminal No.					
	6	7	8	9	10	11
OFF						
Windshield wiper mist switch ON	○					○
Windshield intermittent wiper switch ON	○				○	
Windshield low-speed wiper switch ON	○			○		
Windshield high-speed wiper switch ON	○		○			
Windshield washer switch ON	○	○				

- (2) Windshield intermittent wiper interval adjusting knob
Measure the resistance value at terminal numbers 3 and 6. The resistance value should rise smoothly from approximately 0 Ω (“FAST” position) to apporoximately 1 kΩ (“SLOW” position).



WINDSHIELD INTERMITTENT WIPER INTERVAL ADJUSTING KNOB CHECK

<R.H.drive vehicles>

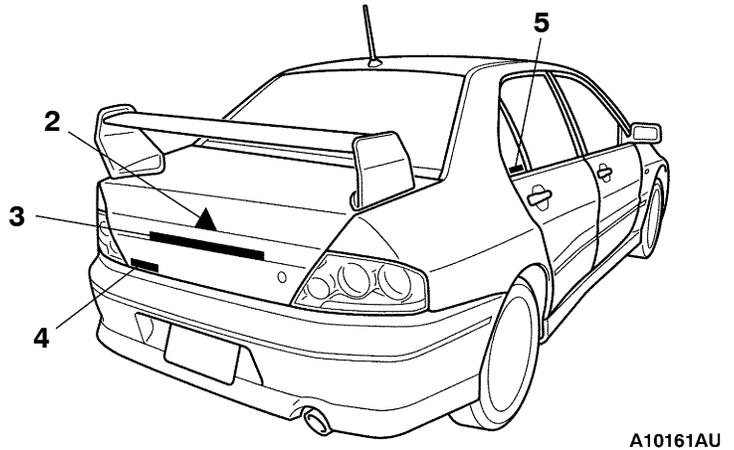
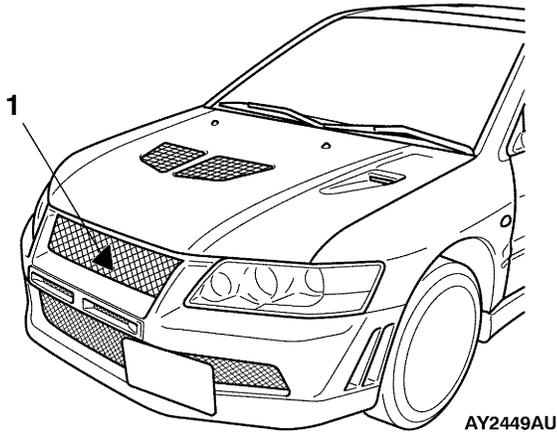
Measure the resistance value at terminal numbers 4 and 6. The resistance value should rise smoothly from approximately 0 W (“FAST” position) to approximately 1 kW (“SLOW” position).

NOTE

The windshield washer switch and windshield wiper switch is integrated in the column-ECU, so can not be checked as an individual part. However, its operation can be checked by the input signal check. (GROUP 54B - Troubleshooting.)

MARKS

REMOVAL AND INSTALLATION



- ▶A◀ 1. Three-diamond mark
 ▶A◀ 2. Three-diamond mark
 ▶A◀ 3. Evolution-VII mark

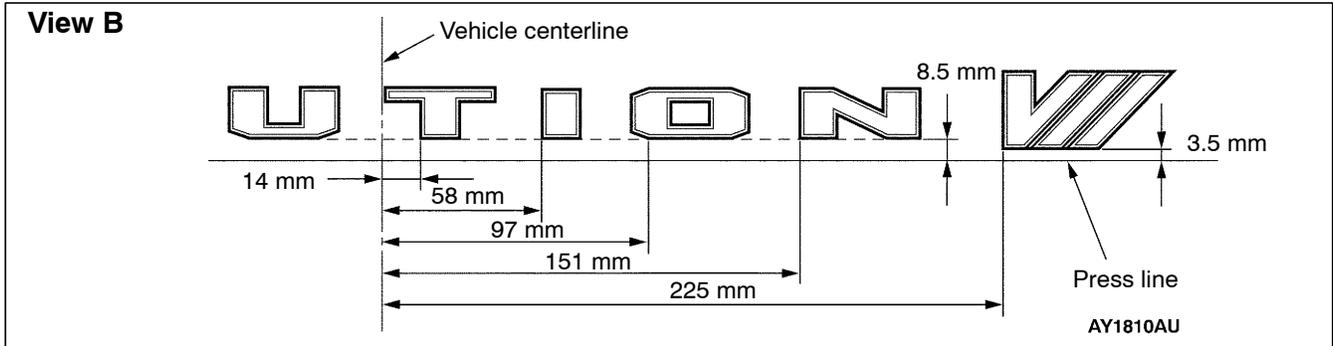
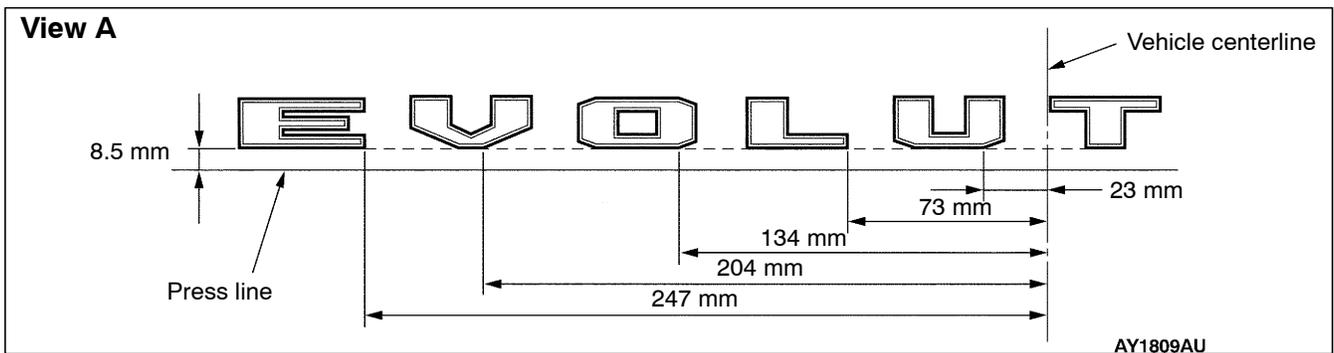
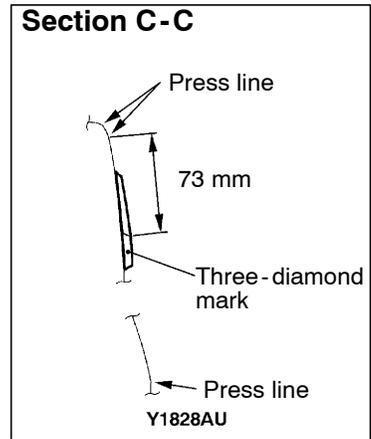
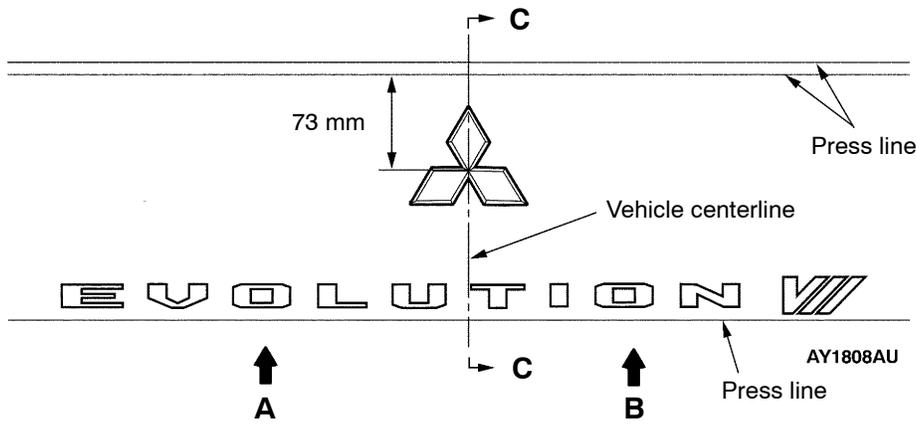
- ▶A◀ 4. LANCER mark
 ▶A◀ 5. RECARO decal <RS-II>

INSTALLATION SERVICE POINT

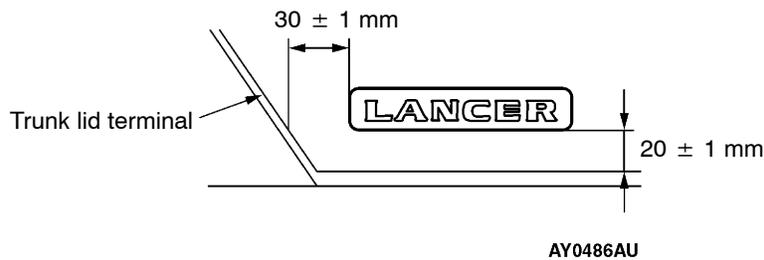
▶A◀ ATTACHMENT OF EACH MARK

1. ATTACHED POSITION

(2) Three-diamond mark, (3) Evolution-VII mark

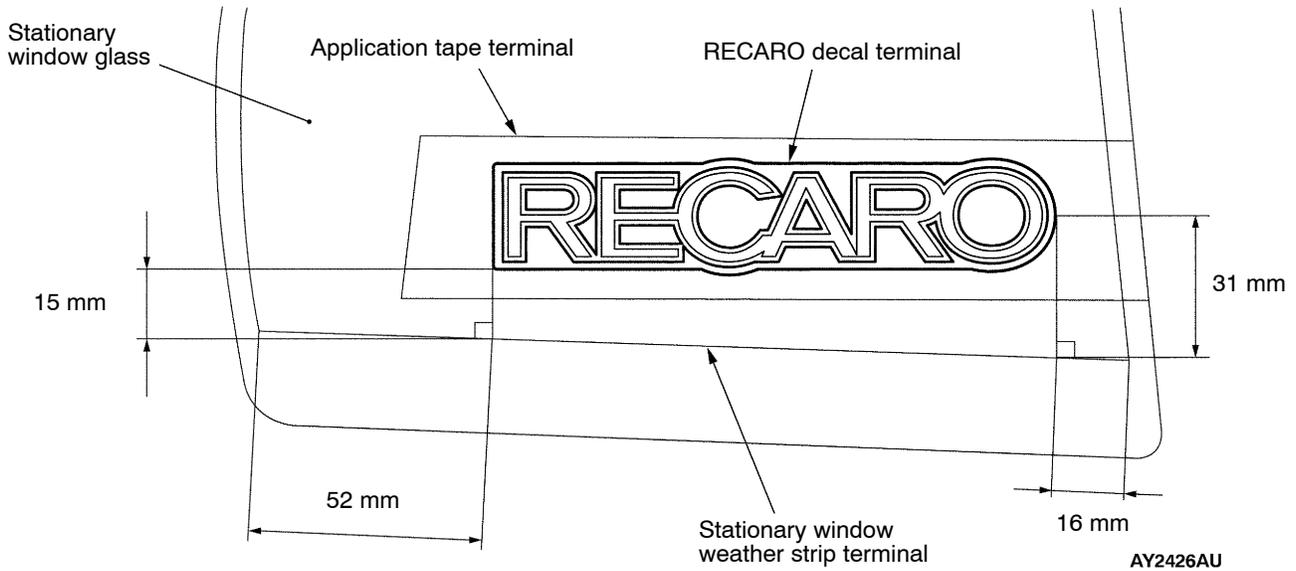


(4) Lancer mark

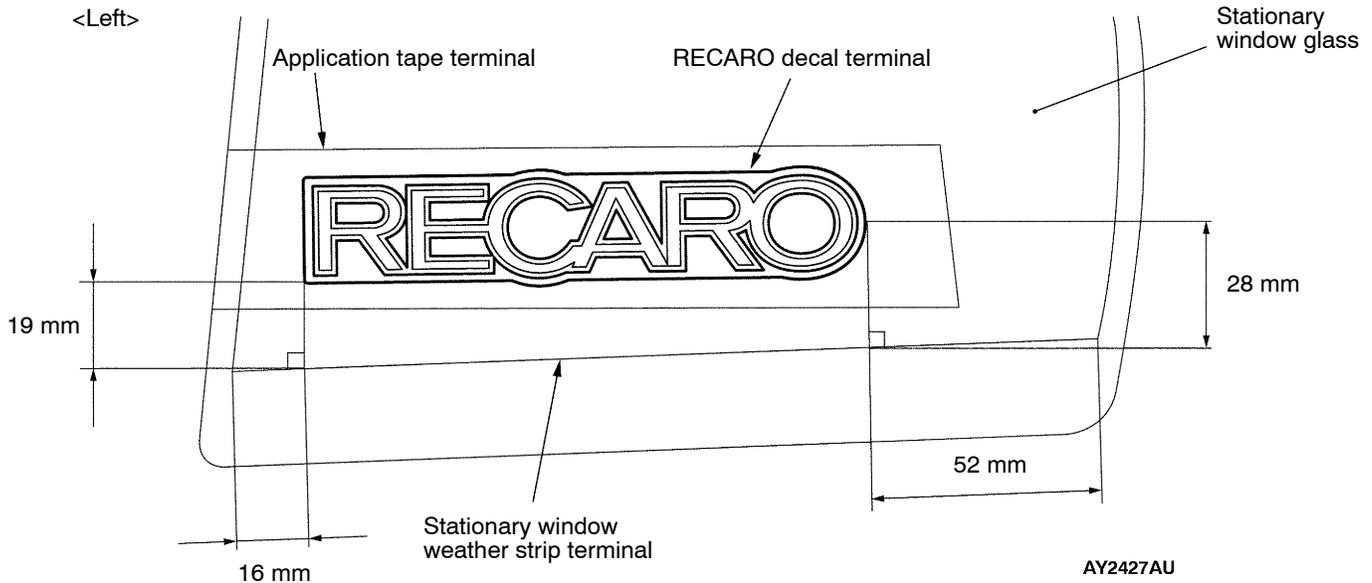


(5) RECARO decal <RS-II>

<Right>



<Left>

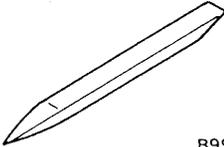
**2. Installation steps**

- (1) Remove grease on the marked surface of the body with unlead gasoline.
- (2) Peel off the protection sheet on the back of the mark to paste it on the installation position.

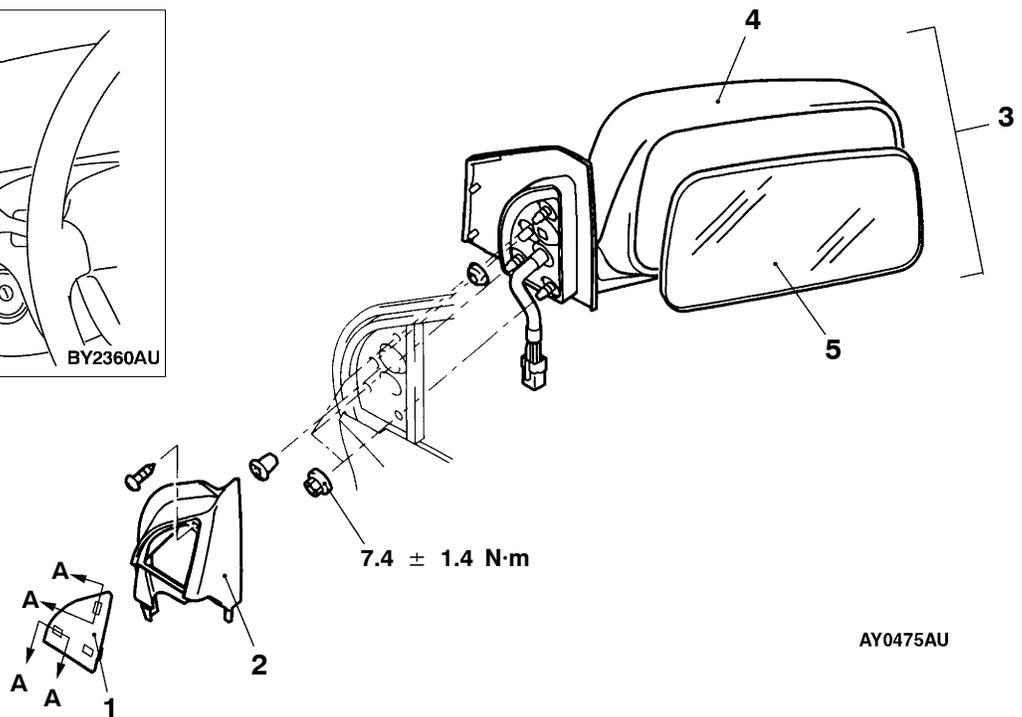
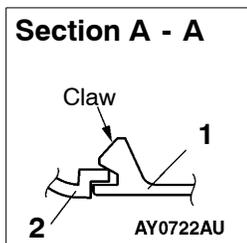
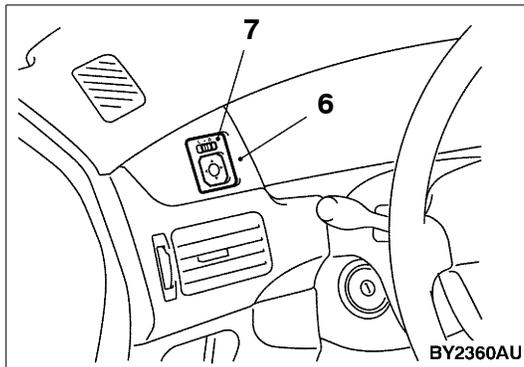
Caution

- 1) Carry out the operation in a dust-free place where the room temperature is between 20 and 38.
- 2) If the room temperature is below 20, heat the mark and the body (pasted area) between 20 and 30.
- 3) Be sure to pressure the mark immediately after the pasting is done.

OUTSIDE MIRROR SPECIAL TOOL

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

OUTSIDE MIRROR REMOVAL AND INSTALLATION



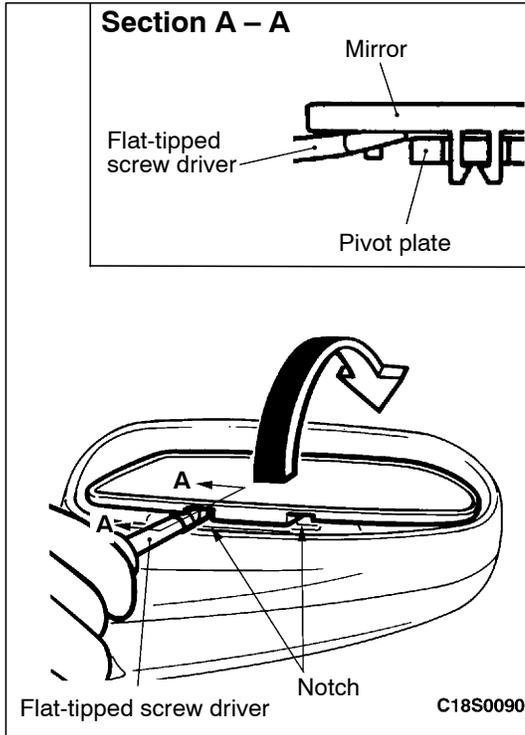
Outside mirror removal steps

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

Remote control outside mirror switch removal steps

6. Instrument panel ornament (Refer to GROUP 52A - Instrument Panel.)
7. Remote control mirror switch

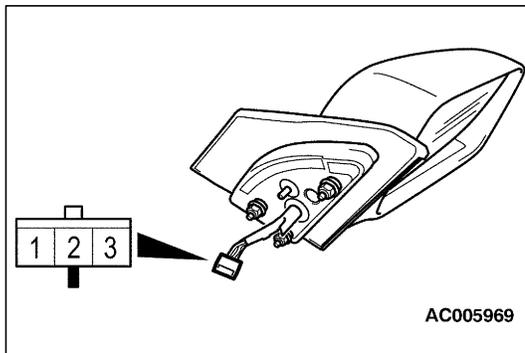




REMOVAL SERVICE POINT

◀A▶ MIRROR REMOVAL

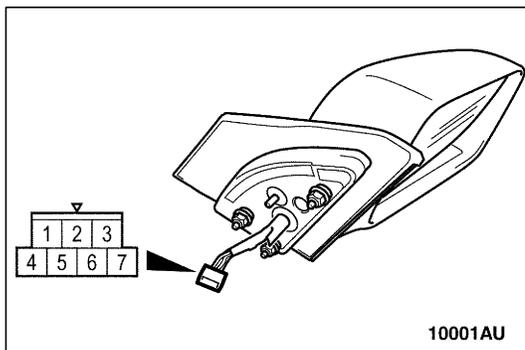
Tilt the mirror upward, insert the flat-tipped screw driver wrapped around with the protection tape between the notch located behind the mirror and pivot plate, and pry off the mirror.



INSPECTIONS

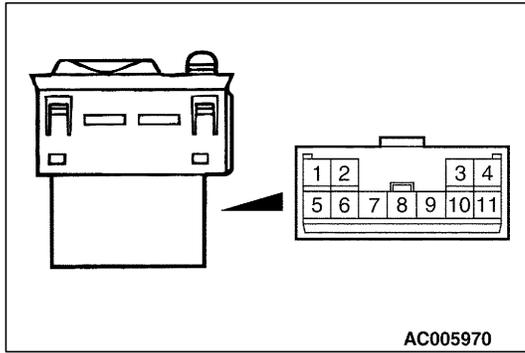
**REMOTE CONTROLLED MIRROR ASSEMBLY CHECK
<RS-II>**

Battery connection terminal			Operation of mirror
1	2	3	
⊖		⊕	Up
⊕		⊖	Down
⊖	⊕		Right
⊕	⊖		Left



THERMAL PRINTED WIRE FUNCTION CHECK

For vehicles with thermal printed wires, check that there is continuity between terminals (1) and (4).



CONTINUITY INSPECTION OF POWER REMOTE CONTROL MIRROR SWITCH<RS-II>

Switch	Switch position	Terminal number									
		Left					Right				
		1	6	9	10	11	1	2	3	6	9
Mirror adjustment switch	Up	○	○	○	○	○		○	○	○	○
	Down	○	○	○	○	○		○	○	○	○
	Left	○	○	○	○	○	○	○		○	○
	Right	○	○	○	○	○	○	○		○	○

NOTES