

GROUP 51

EXTERIOR

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FRONT BUMPER ASSEMBLY

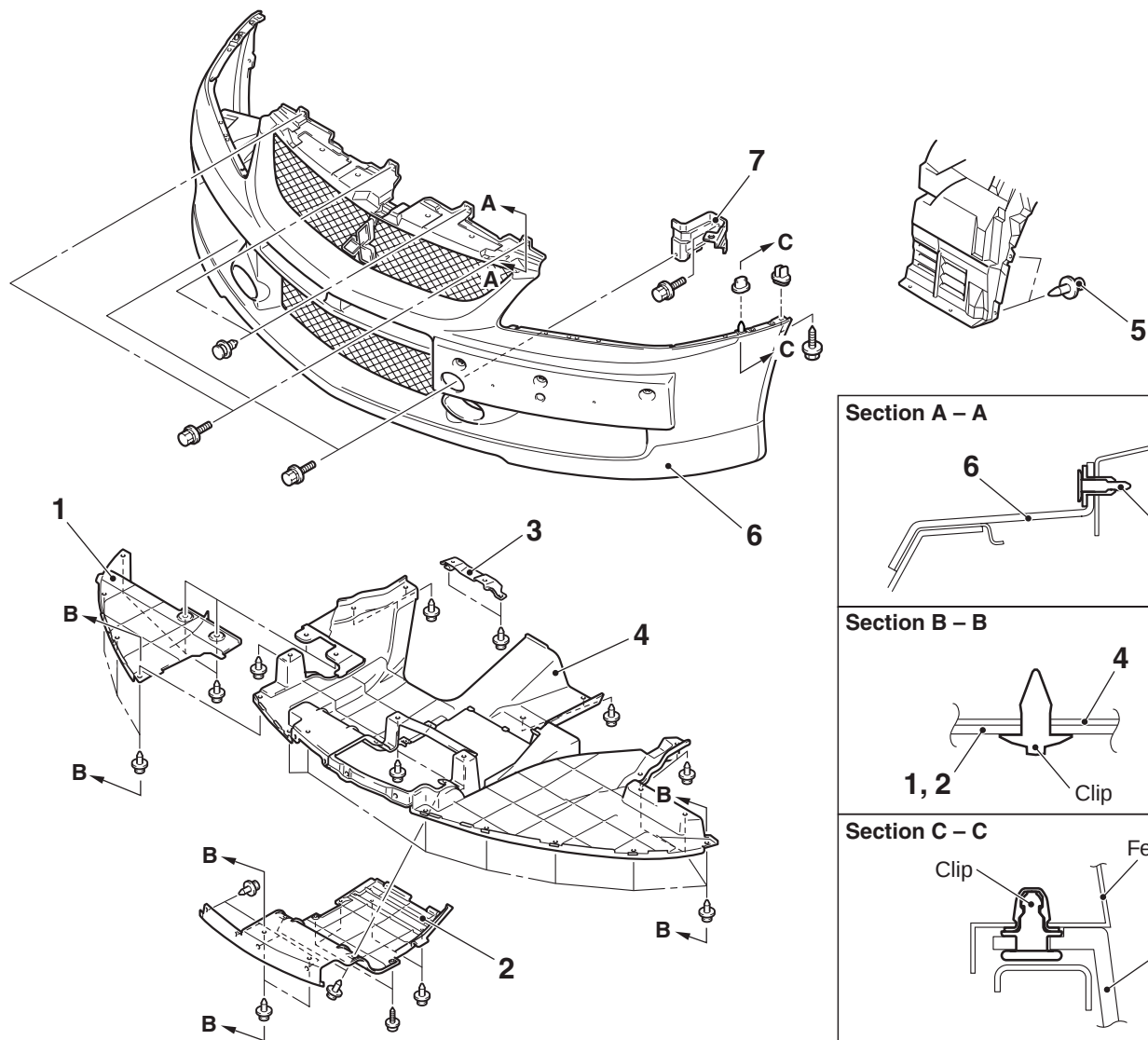
ADHESIVE

M1511000501195

Item	Specification
Front three-diamond mark	Double-sided tape: Generic products 0.8 mm thickness

REMOVAL AND INSTALLATION

M1511001401113

**Removal steps**

1. Side under cover
2. Centre under cover
3. Under cover centre bracket
4. Front under cover

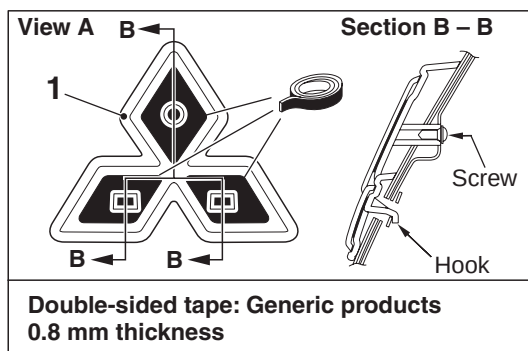
Removal steps (Continued)

5. Splash shield mounting clips
 - Water spray hose connection
6. Front bumper assembly
7. Front bumper stay assembly

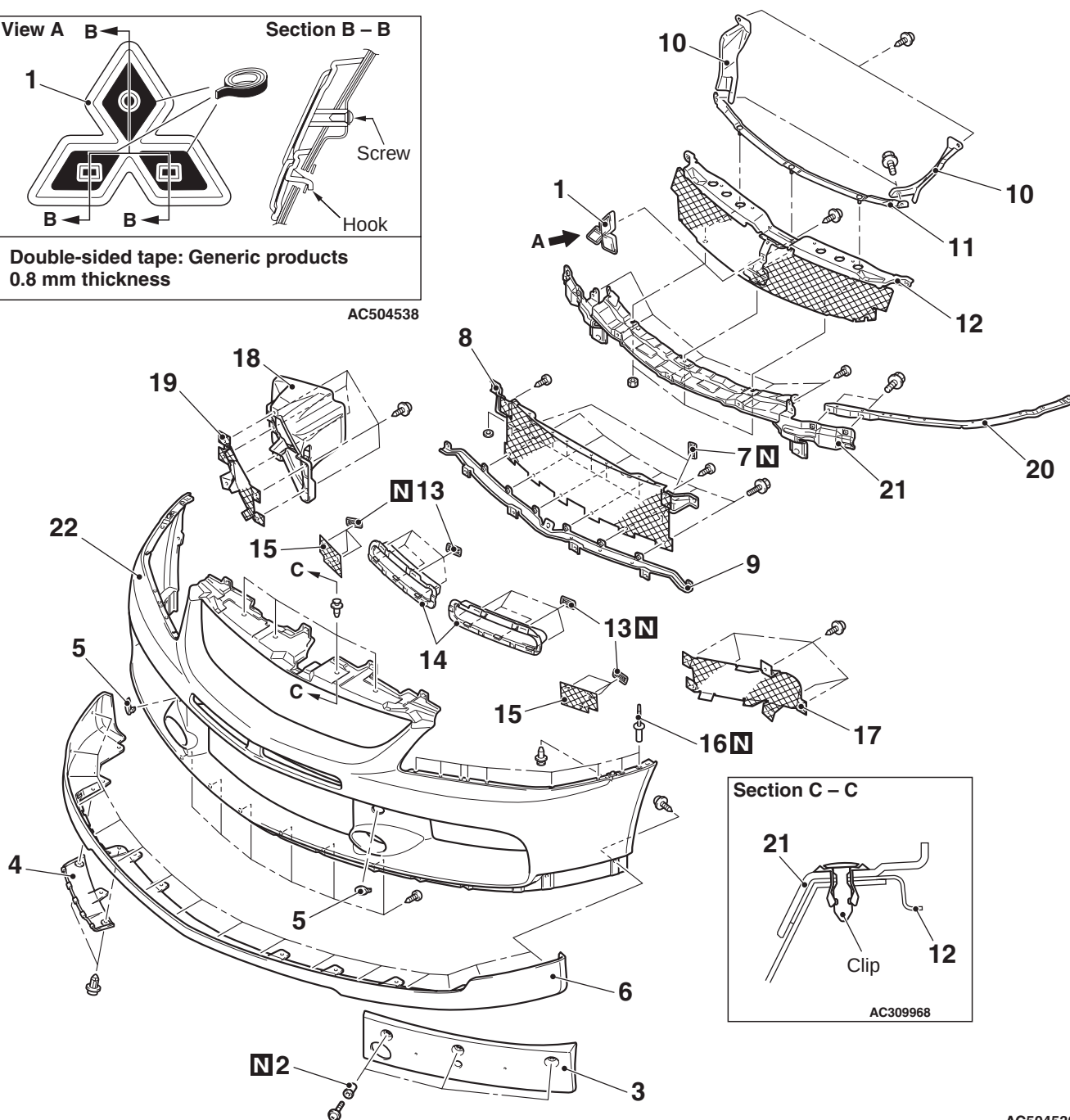
AC504541AB

DISASSEMBLY AND REASSEMBLY

M1511001601117



AC504538



AC504539AB

Disassembly steps

1. Front three-diamond mark
2. Front bumper nut
3. Front licence plate garnish
4. Front bumper cover A
5. Front bumper cover B
6. Air dam skirt panel
7. Clip A
8. Front bumper centre net
9. Front bumper lower plate
10. Grille side cover
11. Front bumper upper plate

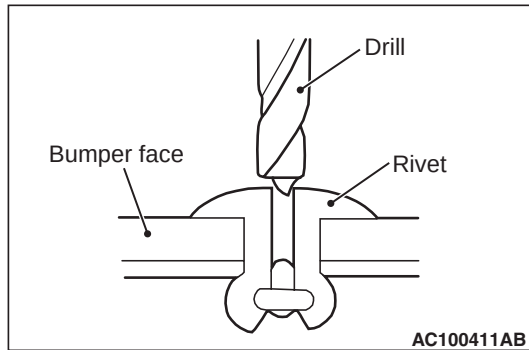
<<A>> >>A<<

Disassembly steps (Continued)

12. Front bumper upper support
13. Clip B
14. Air intake cover
15. Front bumper net
16. Rivets
17. Bumper side net (LH)
18. Oil cooler duct (RH)
19. Bumper side net (RH)
20. Front bumper side plate
21. Front bumper upper reinforcement
22. Front bumper face

DISASSEMBLY SERVICE POINT

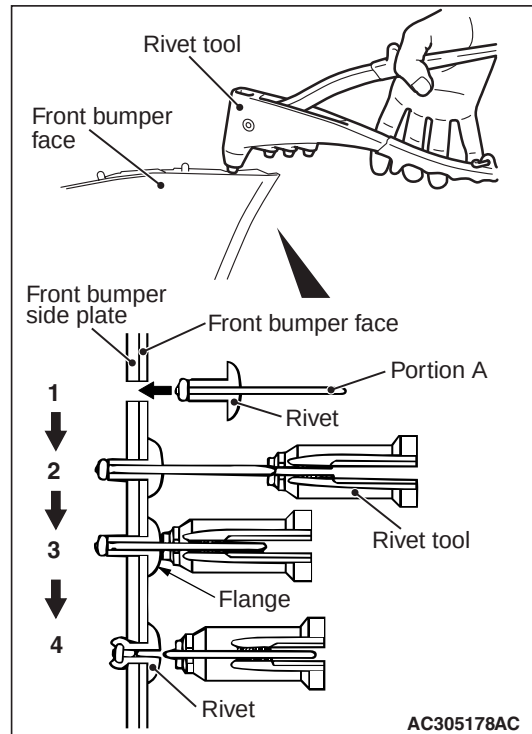
<<A>> RIVETS REMOVAL



Use a drill (4.0 mm) to make a hole in the rivet to break it, and then remove the rivet.

ASSEMBLY SERVICE POINT

>>A<< RIVETS ASSEMBLY



Use the rivet tool shown in the illustration to attach the rivet by the following procedures.

1. Insert the rivet into the front bumper face and front bumper side plate.
2. Place the rivet tool over portion A of the rivet.
3. While pushing the flange surface of the rivet with the rivet tool, press the handle of the tool.
4. The thin part of portion A is cut out and the rivet is held in position.

REAR BUMPER ASSEMBLY

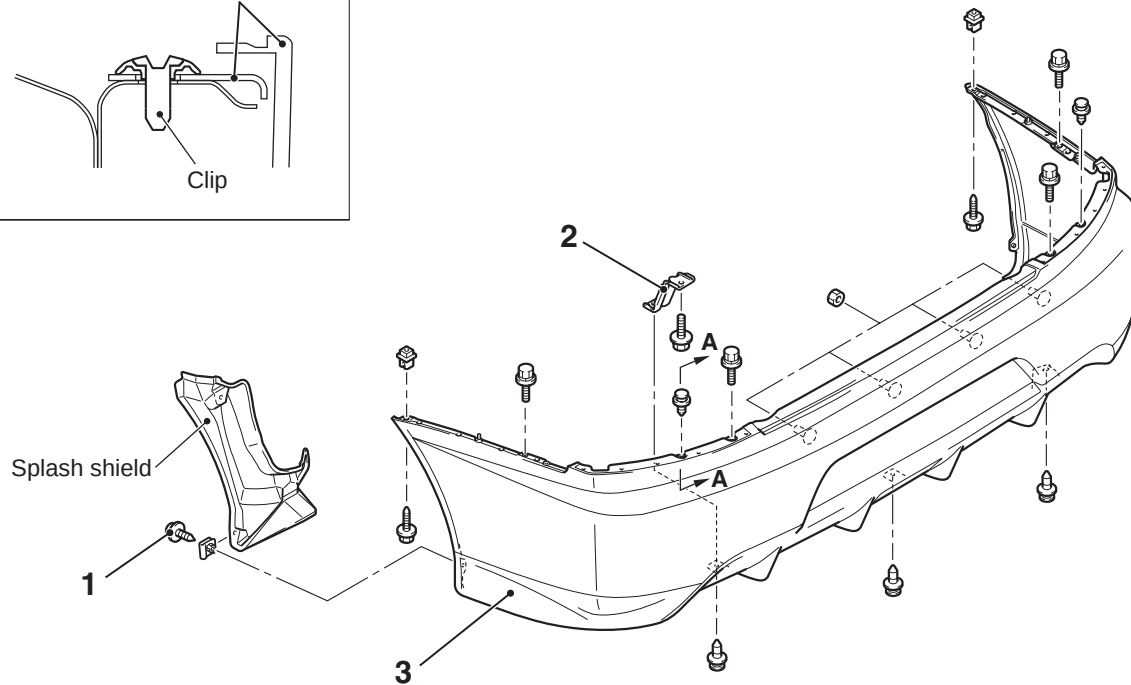
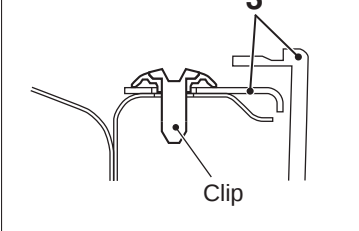
REMOVAL AND INSTALLATION

M1511001901011

Pre-removal and Post-installation Operation

- Rear Combination Lamp Removal and Installation (Refer to GROUP 54A, Rear Combination Lamp [P.54A-67.](#))
- Rear End Trim Removal and Installation (Refer to GROUP 52A, Trims [P.52A-10.](#))
- Trunk Room Side Trim Lid Removal and Installation (Refer to GROUP 52A, Trims [P.52A-10.](#))

Section A – A



Removal steps

1. Splash shield mounting screw

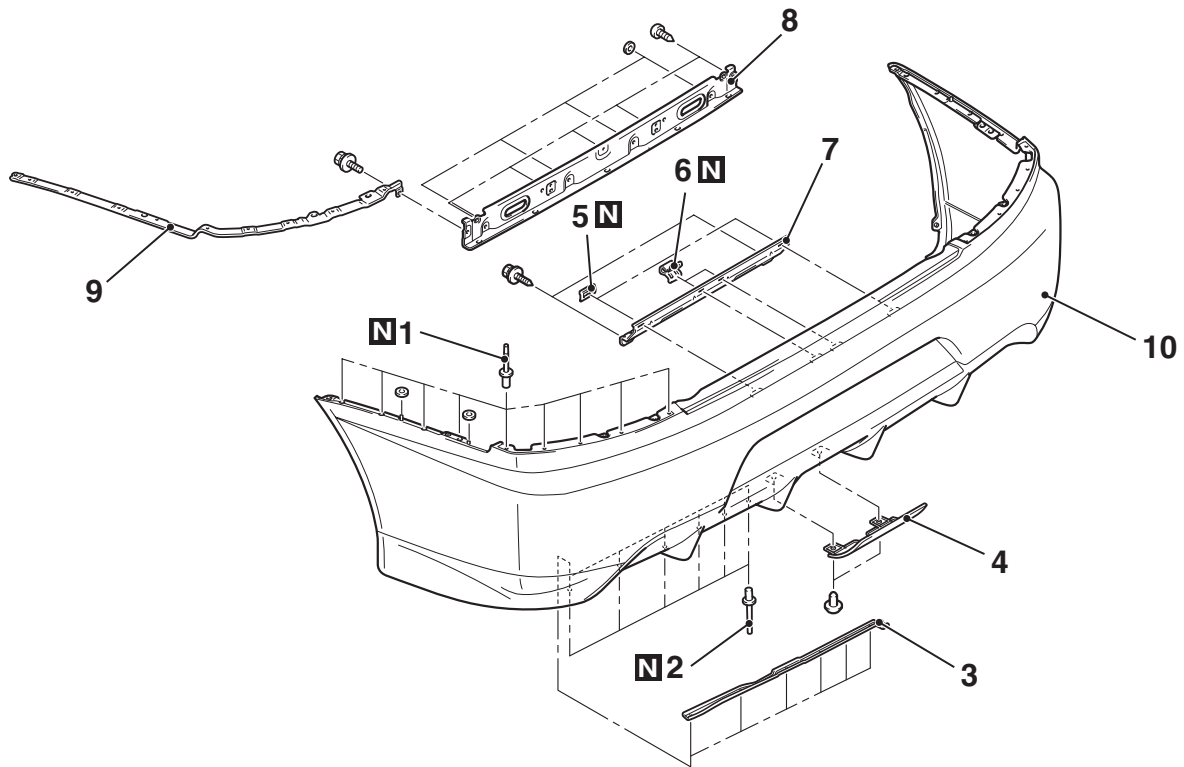
Removal steps (Continued)

2. Rear bumper bracket
3. Rear bumper assembly

AC504546AB

DISASSEMBLY AND REASSEMBLY

M1511002100639



AC504547AB

Disassembly steps

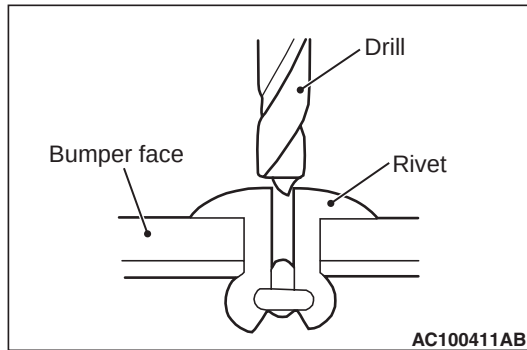
- <<A>> >>A<< 1. Rivets A
 <<A>> >>A<< 2. Rivets B
 • Licence plate lamp assembly
 3. Rear bumper face support side reinforcement
 4. Rear bumper under cover

Disassembly steps (Continued)

5. Clip A
 6. Clip B
 7. Licence plate lamp bracket
 8. Rear bumper reinforcement
 9. Rear bumper side plate
 10. Rear bumper face

DISASSEMBLY SERVICE POINT

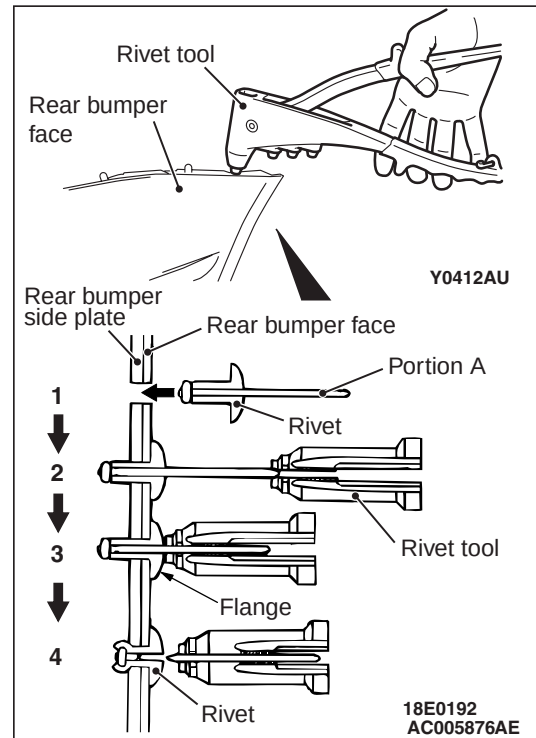
<<A>> RIVETS A AND B REMOVAL



Use a drill (4.0 mm) to make a hole in the rivet to break it, and then remove the rivet.

ASSEMBLY SERVICE POINT

>>A<< RIVETS A AND B ASSEMBLY



Use the rivet tool shown in the illustration to attach the rivet by the following procedures.

1. Insert the rivet into the rear bumper face and rear bumper side plate.
2. Place the rivet tool over portion A of the rivet.
3. While pushing the flange surface of the rivet with the rivet tool, press the handle of the tool.
4. The thin part of portion A is cut out and the rivet is held in position.

SIDE AIR DAM

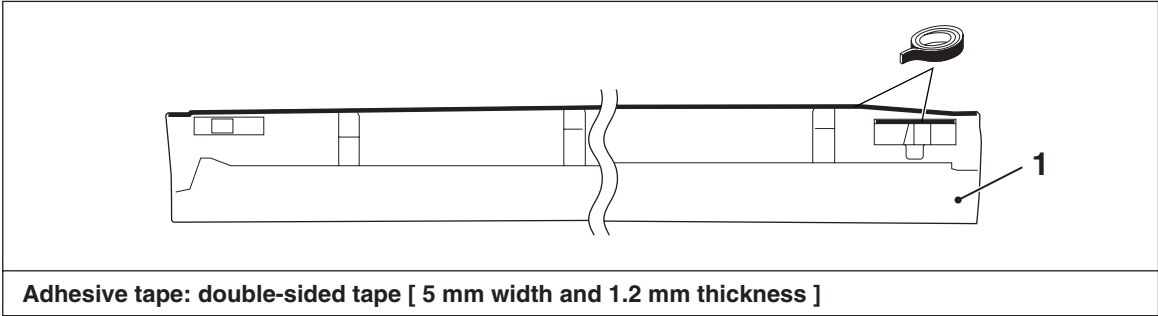
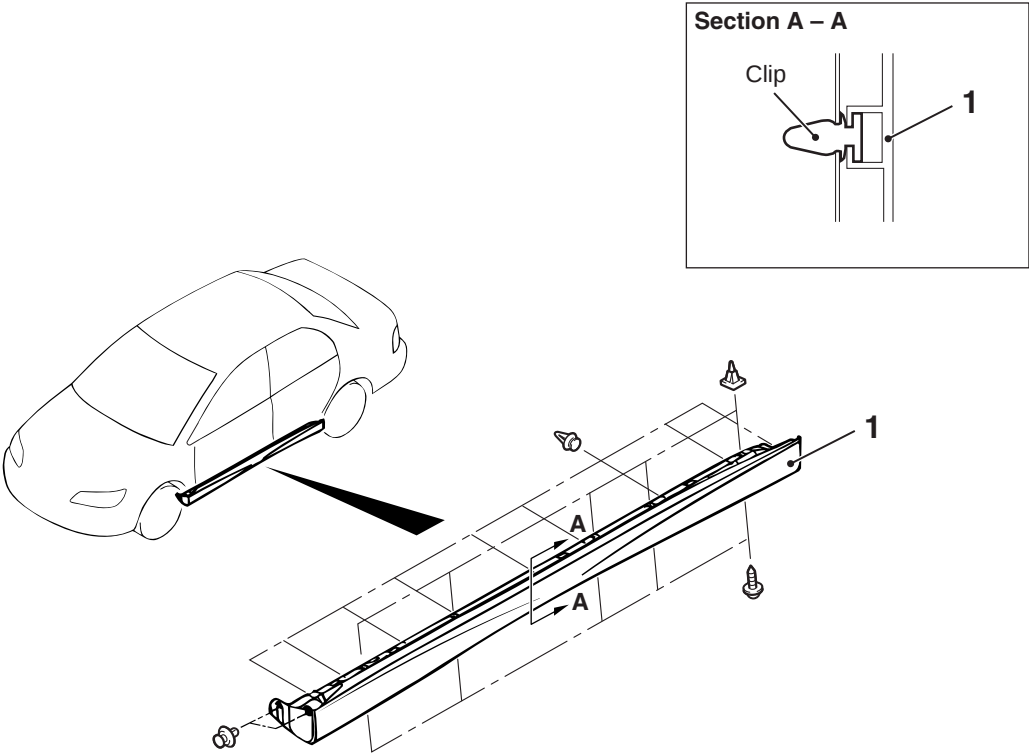
ADHESIVE

M1511000500932

Item	Specification
Side air dam	Double-sided tape: General products 5 mm width and 1.2 mm thickness

REMOVAL AND INSTALLATION

M1511005500153



AC310080 AB

REMOVAL

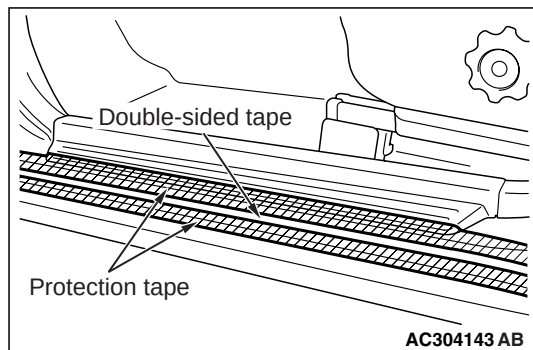
<<A>> >>A<< 1. Side air dam

REMOVAL SERVICE POINT

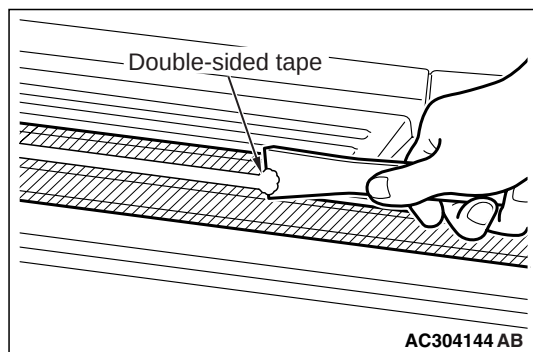
<<A>> SIDE AIR DAM REMOVAL

Gently lift and remove the side air dam. If there is any double-sided tape remaining on the side air dam, remove according to the following instructions.

<Remove double-sided tape remaining on the body surface>

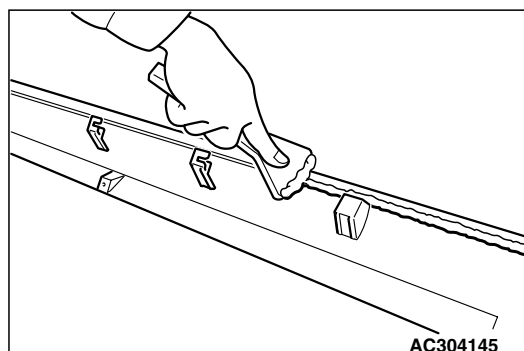


1. Attach protection tape all the way along the edges of the double-sided tape which is still adhering to the body.



2. Scrape off the double-sided tape with a resin spatula as possible.
3. Peel off the protection tape.
4. Wipe the body surface and clean it with a rag moistened with isopropyl alcohol.

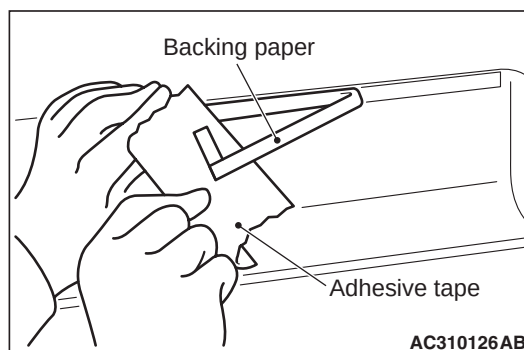
<Remove double-sided tape remaining on side air dam and adhere double-sided tape (when re-using side air dam)>



1. Scrape off the double-sided tape on the side air dam with a resin spatula as possible.
2. Wipe the side sill garnish surface and clean it with a rag moistened with isopropyl alcohol.
3. Remove only a small portion of the residual adhesive.
4. Adhere the double-sided tape as specified on the side air dam.

INSTALLATION SERVICE POINT

>>A<< SIDE AIR DAM INSTALLATION.

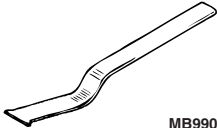


1. Tear off the double-sided tape backing paper.
NOTE: If you attach the adhesive tape to the edge of the backing paper, it will be easy to tear off.
2. Install the side air dam.
NOTE: If the double-sided tape is difficult to affix in cold temperature, etc., warm the bonding surfaces of the body and side air dam to about 40 – 60 °C before affixing the tape.
3. Firmly press in the side air dam.

GARNISHES AND MOULDINGS

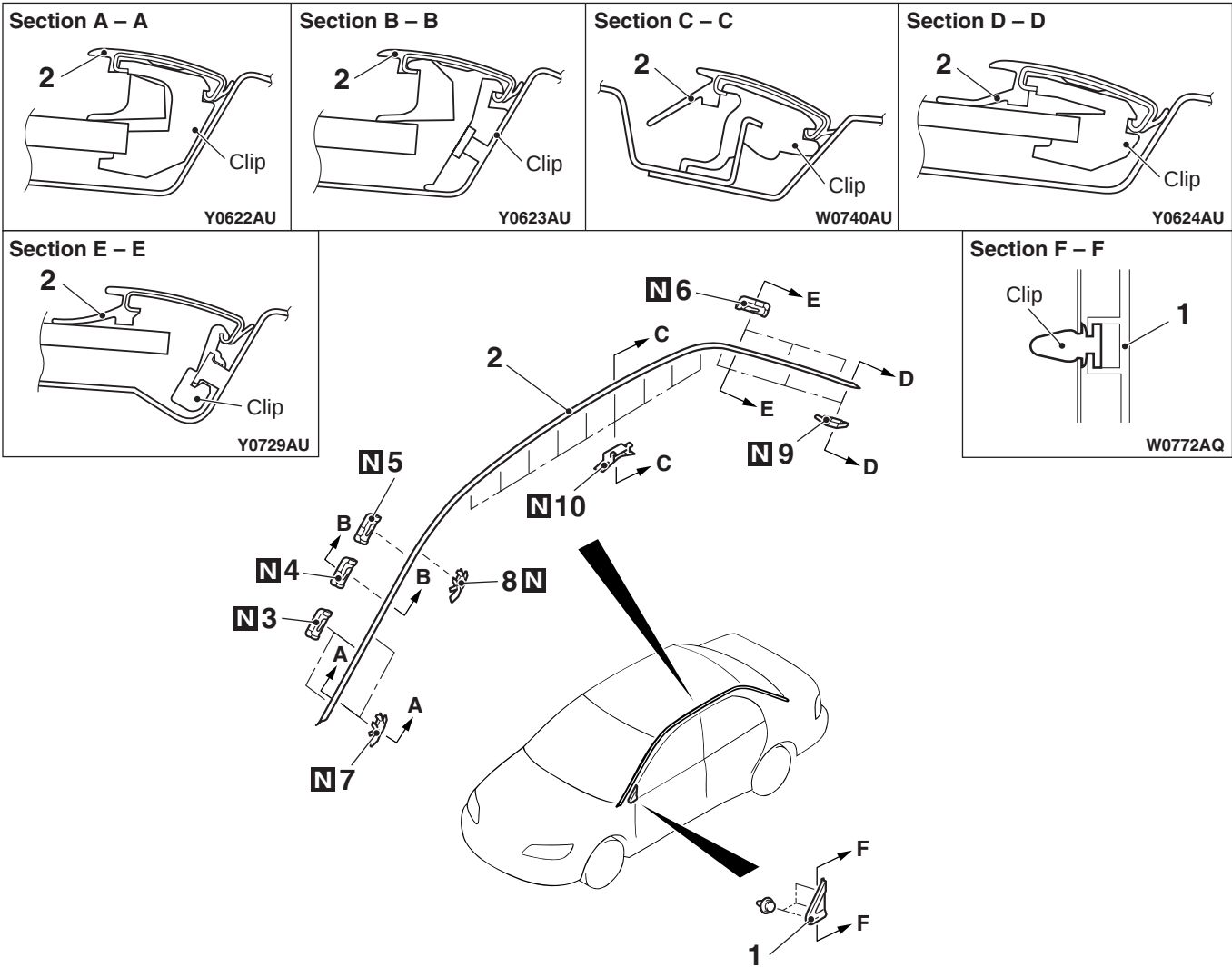
SPECIAL TOOL

M1511000601136

Tool	Number	Name	Use
	MB990449	Window moulding remover	Removal of drip moulding

REMOVAL AND INSTALLATION

M1511004400238



AC310124AB

Removal

1. Delta outer garnish

Roof drip moulding removal steps

- <<A>> >>C<< 2. Roof drip moulding
>>B<< 3. Front drip moulding clip A
>>B<< 4. Front drip moulding clip B
>>B<< 5. Front drip moulding clip C

Roof drip moulding removal steps

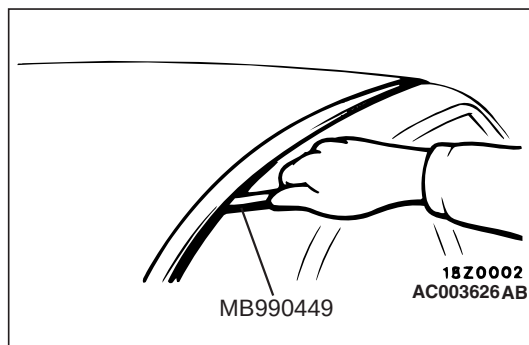
- >>B<< 6. Rear drip moulding clip
>>A<< 7. Drip moulding clip A
>>A<< 8. Drip moulding clip B
>>A<< 9. Drip moulding clip C
10. Roof drip moulding clip

REMOVAL SERVICE POINT

<<A>> ROOF DRIP MOULDING REMOVAL

⚠ CAUTION

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



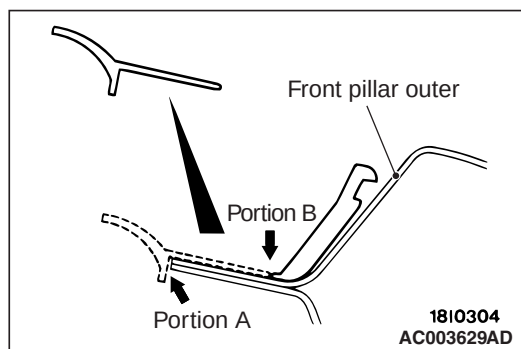
Use special tool window moulding remover (MB990449) to pry out the moulding.

INSTALLATION SERVICE POINTS

>>A<< DRIP MOULDING CLIP C/DRIP MOULDING CLIP B/DRIP MOULDING CLIP A INSTALLATION

1. The drip moulding clips A, B and C differ according to where they are used, so check the identification colour before installation.

Applicable location	Identification colour
Drip moulding clip A	Yellow
Drip moulding clip B	Blue
Drip moulding clip C	Milky white



2. After installing the clip to the front pillar outer in alignment with its portion A, cut from portion B.

>>B<< REAR DRIP MOULDING CLIP/FRONT DRIP MOULDING CLIP C/FRONT DRIP MOULDING CLIP B/FRONT DRIP MOULDING CLIP A INSTALLATION

The front drip moulding clips A, B, C and rear drip moulding clip differ according to where they are used, so check the identification colour before installation.

Applicable location	Identification colour
Front drip moulding clip A	Orange
Front drip moulding clip B	Purple
Front drip moulding clip C	Blue
Rear drip moulding clip	Grey

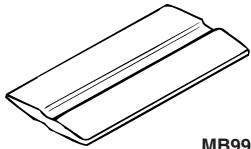
>>C<< ROOF DRIP MOULDING INSTALLATION

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

DOOR SASH TAPE

SPECIAL TOOL

M1511000601664

Tool	Number	Name	Use
 MB990528	MB990528	Stripe tape spatula	Installation of door sash tape

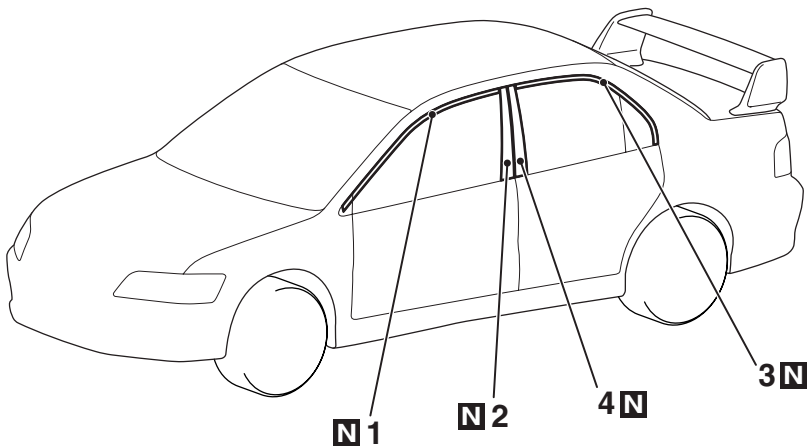
DOOR SASH TAPE

REMOVAL AND INSTALLATION

M1511024100176

Pre-removal and Post-installation Operation

- Door Trim Assembly Removal and Installation (Refer to GROUP 52A P.52A-12).
- Door Beltline Weatherstrip Inner Removal and Installation (Refer to GROUP 42 P.42-33).
- Door Opening Weatherstrip Outer Removal and Installation (Refer to GROUP 42 P.42-33).
- Door Window Glass Runchannel Removal and Installation (Refer to GROUP 42 P.42-33).
- Door Beltline Moulding Removal and Installation (Refer to GROUP 42 P.42-33).



AC403531AB

Removal steps

- <<A>> >>A<< 1. Front door sash tape upper
<<A>> >>A<< 2. Front door sash tape rear

- <<A>> >>A<< 3. Rear door sash tape upper
<<A>> >>A<< 4. Rear door sash tape front

REMOVAL SERVICE POINT

<<A>> DOOR SASH TAPES REMOVAL

⚠ CAUTION

Pay attention to keep from getting burned by hot door panel or tapes.

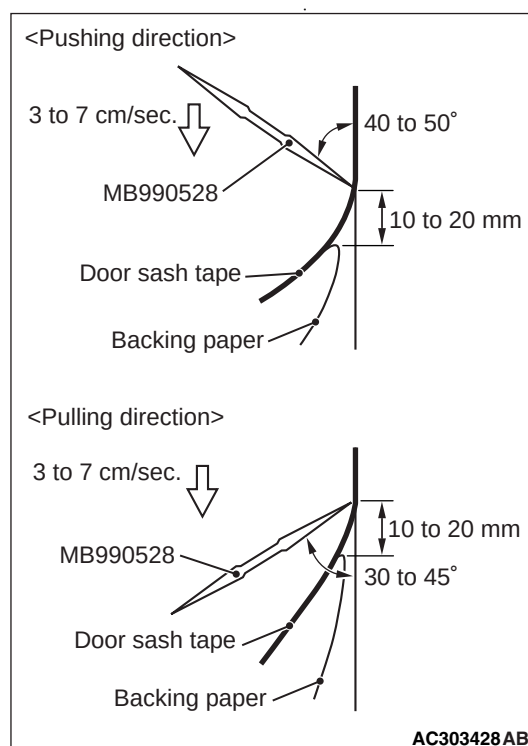
1. Use a hair drier to warm the tape.
2. Peel the tip of the tape with your finger, and then peel off the tape parallel to the application surface.

INSTALLATION SERVICE POINT

>>A<< DOOR SASH TAPES INSTALLATION

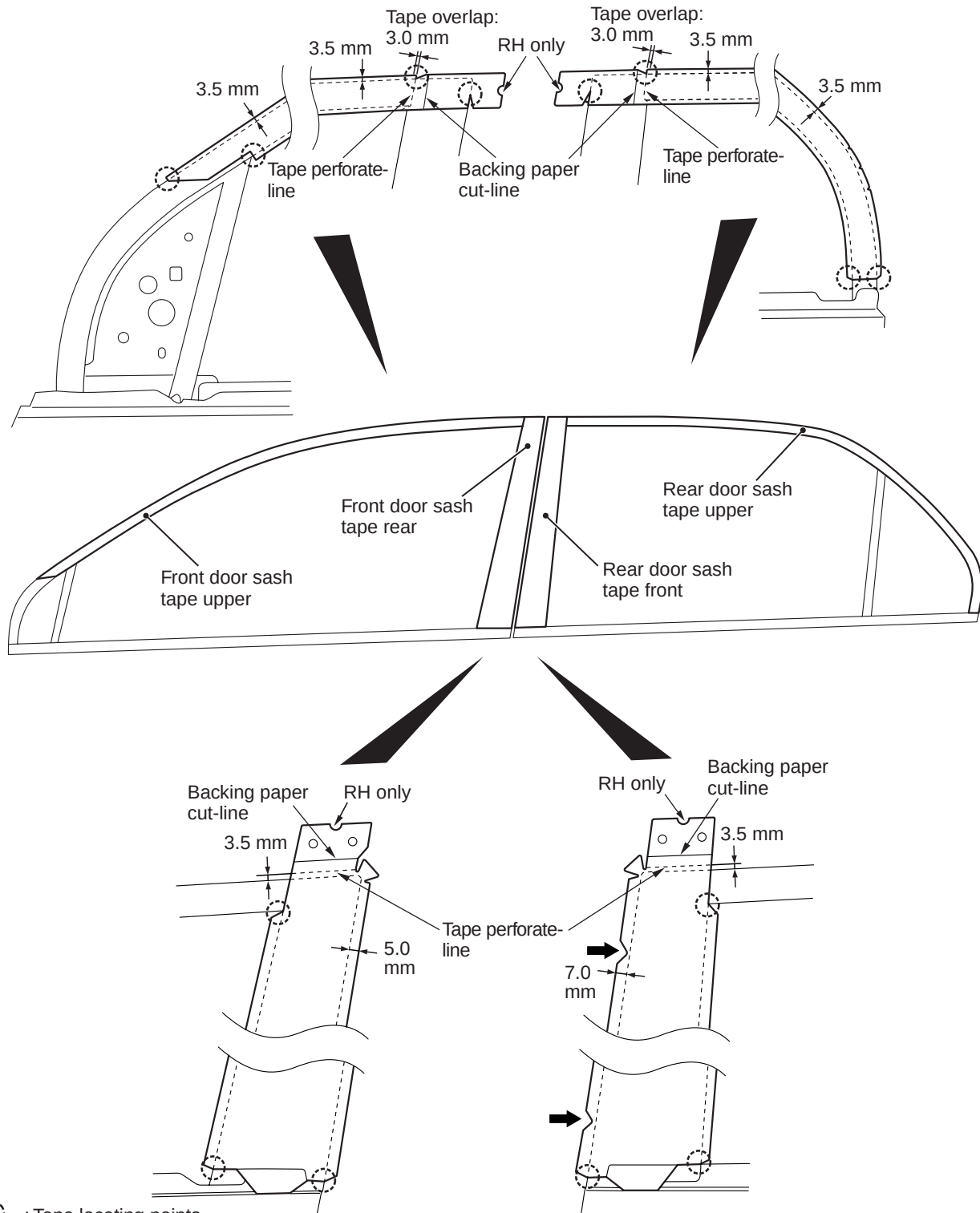
⚠ CAUTION

- The ambient temperature should be 20 to 30°C. Ensure that the working area is clean. Ideally, the tape application should be done at ambient temperature of 25°C.
- If ambient temperature is less than 15°C, heat the tape and application surface to a temperature of 20 to 30°C. If ambient temperature is 35°C or higher, cool down them. The adhesive property of the tape is deteriorated at low temperature, so the tape may come adrift easily. Meanwhile, it gets softened at hot temperature.
- When beginning to apply the tape, pay particular attention. If the end of the tape cannot be applied to the specified position with an accuracy of less than 1 mm, it may cause the poor appearance or adhesion.



Use the special tool stripe tape spatula (MB990528) to apply the tape with a steady pace and pressure. If you do not apply the tape with a steady pace or pressure, or abort the application, a shallow groove (lateral groove called as "Shock line") may be present on the tape surface. Meanwhile, if you apply it too quickly, air bubbles may be formed under the tape.

1. Wrap a soft cloth (synthetic fibre) around the tip of the special tool.
2. Use isopropyl alcohol to degrease the tape application surface.
3. Wipe away dirt from the tape.



○ : Tape locating points

➡ : T-stud for door opening weatherstrip attaching locations (5 pieces in all).

4. Apply the door sash tapes according to the procedures shown below.

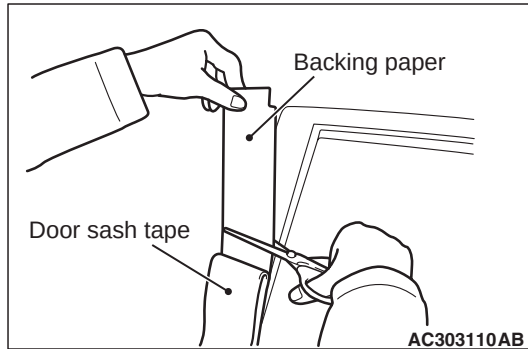
(1) Align a tape with specified application position.
If necessary, use a magnet to secure it.

NOTE:

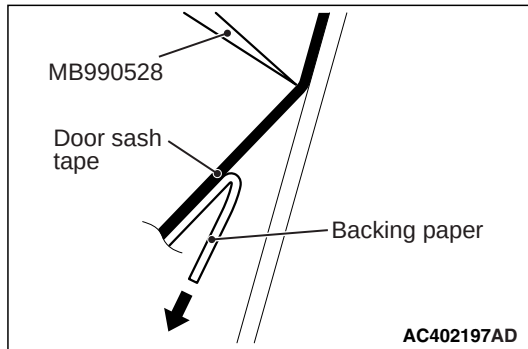
- Align the front door sash tape upper at the rear end.
- Align the rear door sash tape upper at the front end.
- Align the front door sash tape rear/rear door sash tape front at the upper end.

AC403580AC

- (2) As for the front/rear door sash tape upper, peel off the backing paper under the tape by the backing paper cut-line and apply the tape temporarily.



- (3) Peel off the backing paper and cut it as necessary.

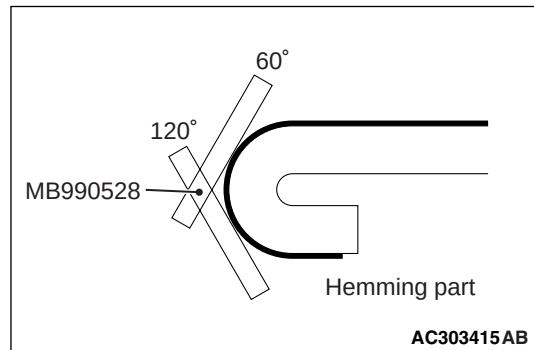


- (4) While peeling off the remaining backing paper, press the tape by a special tool (MB990528).

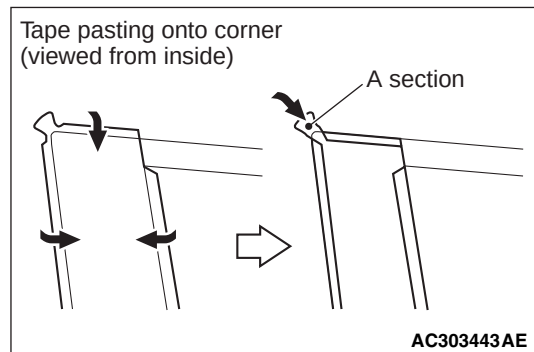
NOTE:

- Apply the front door sash tape upper from rear to front.
- Apply the rear door sash tape upper from front to rear.
- Apply the front door sash tape rear/rear door sash tape front from top to bottom.

- (5) As for the front door sash tape rear/rear door sash tape front, peel off the application tape in the direction of 180° from bottom to top.
- (6) Remove unnecessary part of the tape at tape perforate-line.



- (7) Press the folded area of the tape at 3 steps securely(60°, 120° and holding), rolling in toward the vehicle inside direction.



- (8) As for the front door sash tape rear/rear door sash tape front, roll in the A section of the tape upper corner toward the vehicle inside with your palm securely.

REAR SPOILER

ADHESIVE

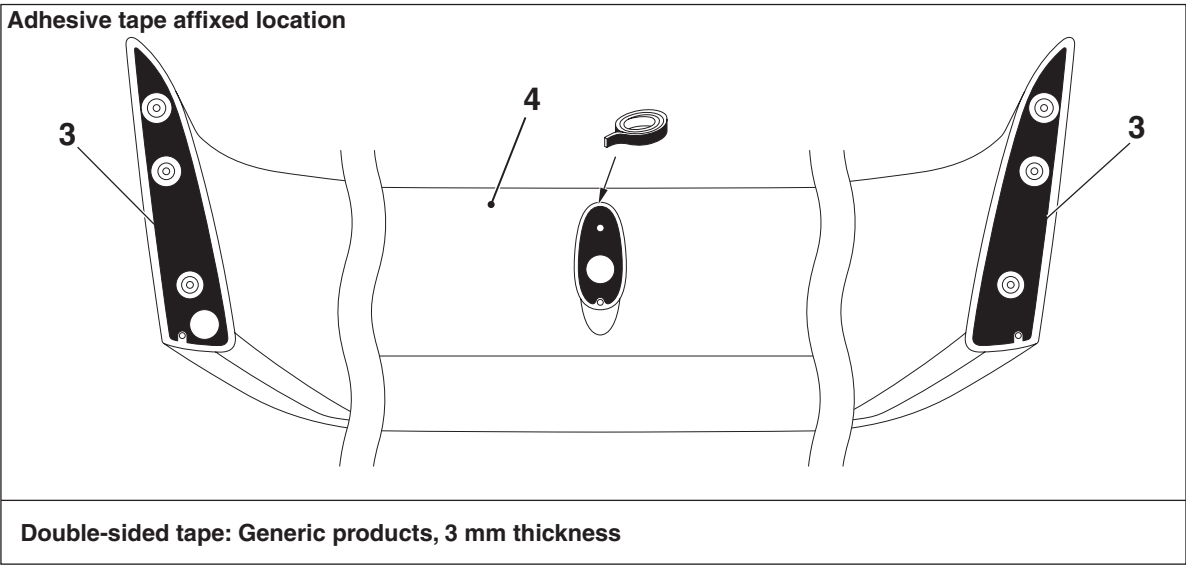
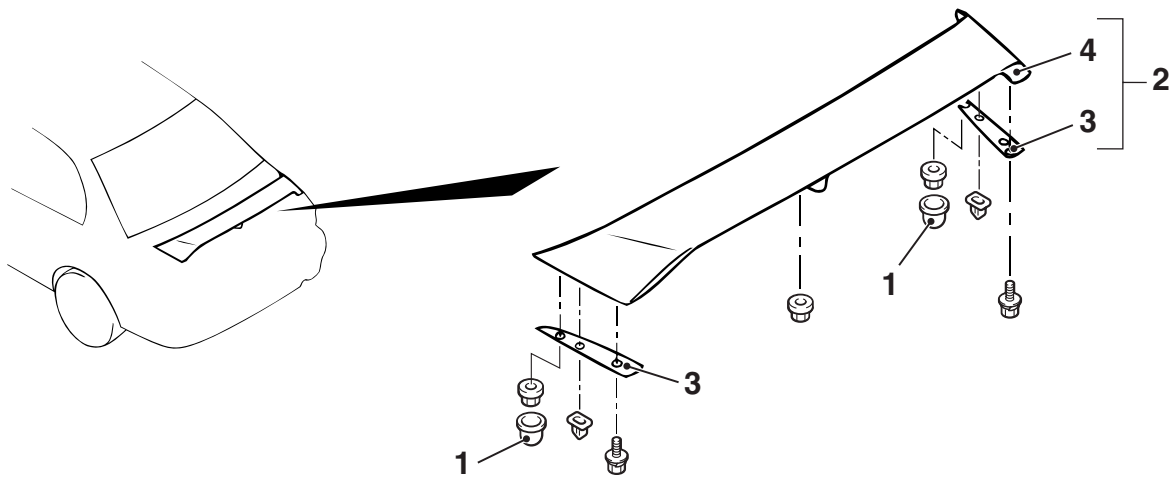
M1511000500512

Item	Specification
Rear spoiler assembly <Type A>	Double-sided tape: Generic products 3 mm thickness
Rear spoiler assembly <Type B>	Double-sided tape: Generic products 1.6 mm thickness

REMOVAL AND INSTALLATION

M1511006100211

<TYPE A>



AC310062AC

Removal steps

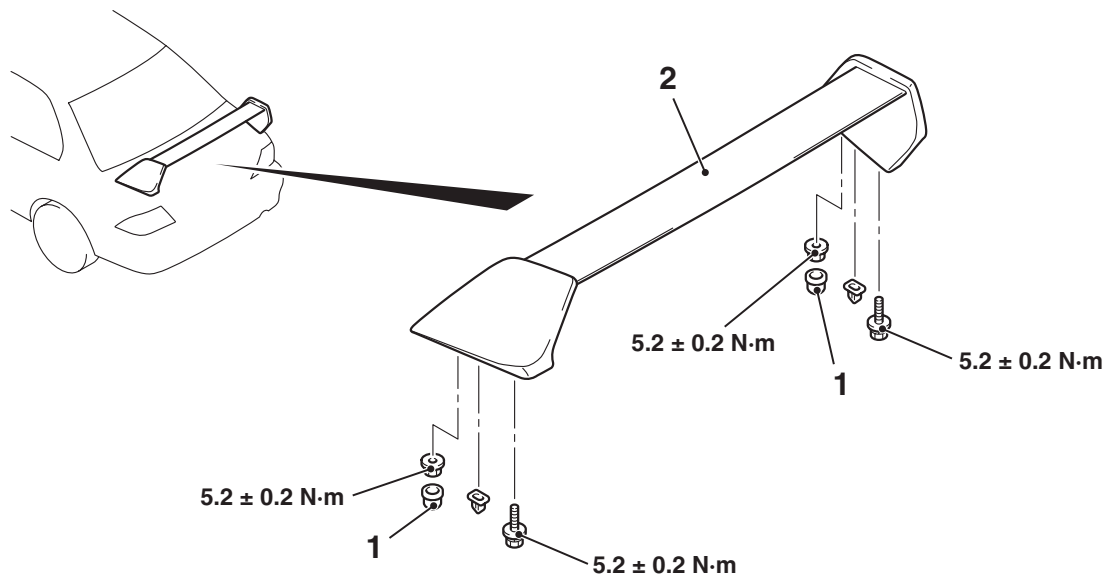
- Trunk lid bumper (Refer to GROUP 42, Trunk Lid [P.42-37](#)).
1. Cap
2. Rear spoiler assembly
3. Gasket

<<A>> >>A<<

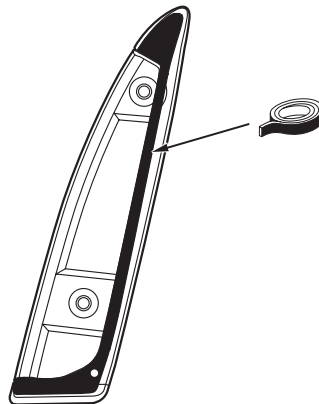
Removal steps (Continued)

4. Rear spoiler
- High-mounted stop lamp (Refer to GROUP 54A, High-mounted Stop Lamp [P.54A-69](#)).

<Type B>



Adhesive tape affixed location



Double-sided tape: Generic products, 1.6 mm thickness

AC504553AB

Removal steps

- Trunk lid bumper (Refer to GROUP 42, Trunk Lid [P.42-37](#)).

1. Cap
2. Rear spoiler assembly

<<A>> >>A<<

REMOVAL SERVICE POINT

**<<A>> REAR SPOILER ASSEMBLY
REMOVAL**

Remove by the same procedure as described in SIDE AIR DAM REMOVAL (Refer to [P.51-8](#)).

INSTALLATION SERVICE POINT

**>>A<< REAR SPOILER ASSEMBLY
INSTALLATION**

Install by the same procedure as described in SIDE AIR DAM INSTALLATION (Refer to [P.51-8](#)).

WINDSHIELD WIPER AND WASHER

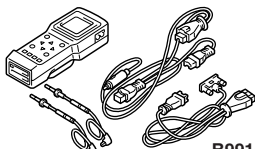
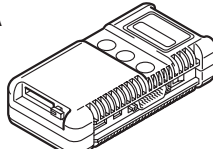
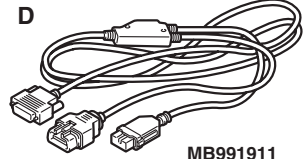
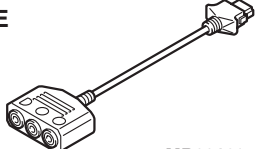
SERVICE SPECIFICATION

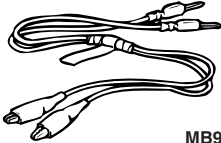
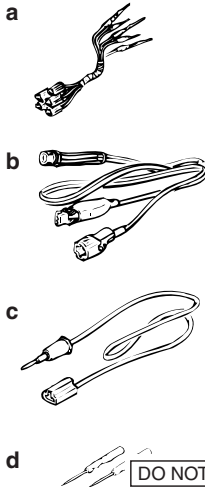
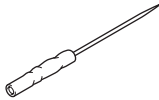
M1511000300422

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	69 ± 5

SPECIAL TOOLS

M1511000601783

Tool	Number	Name	Use
 B991502	MB991502	M.U.T.-II sub assembly	Check the windshield intermittent wiper interval
A  MB991824	MB991955 A: MB991824 B: MB991827 C: MB991910 D: MB991911 E: MB991825 F: MB991826	M.U.T.-III sub-assembly A: Vehicle Communication Interface (V. C. I.) B: M.U.T.-III USB cable C: M.U.T.-III main harness A (Vehicles with CAN communication system) D: M.U.T.-III main harness B (Vehicles without CAN communication system) E: M.U.T.-III measurement adapter F: M.U.T.-III trigger harness	Check the windshield intermittent wiper interval ⚠ CAUTION M.U.T.-III main harness B (MB991911) should be used. M.U.T.-III main harness A should not be used for this vehicle.
B  MB991827			
C  MB991910			
D  MB991911			
E  MB991825			
F  MB991826 MB991955			

Tool	Number	Name	Use
 MB991529	MB991529	Diagnosis code check harness	Input signal check by using a voltmeter
 a b c d DO NOT USE MB991223	MB991223 a. MB991219 b. MB991220 c. MB991221 d. MB991222	Harness set a. Check harness b. LED harness c. LED harness adapter d. Probe	Continuity check and voltage measurement at harness wire or connector a. For checking connector pin contact pressure b. For checking power supply circuit c. For checking power supply circuit d. For connecting a locally sourced tester
 MB992006	MB992006	Extra fine probe	Continuity check and voltage measurement at harness wire or connector

TROUBLESHOOTING

M1511000700323

The windshield wiper and washer are controlled by the Smart Wiring System (SWS). For troubleshooting, refer to GROUP 54B, Troubleshooting [P.54B-13](#) or GROUP 54C, Troubleshooting [P.54C-4](#).

NOTE: Even when the ETACS-ECU has failed, the windshield wiper can work at low speed as fail-safe mode. (Normally, the windshield wiper operates when the ignition switch is at the "ACC" position. But, if it enters the fail-safe mode, the wiper can operate only when the ignition switch is at the "ON" position.)

ON-VEHICLE SERVICE

WINDSHIELD INTERMITTENT WIPER INSPECTION

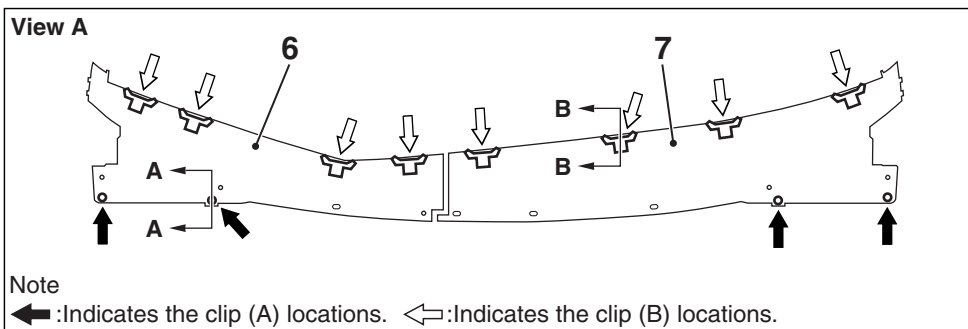
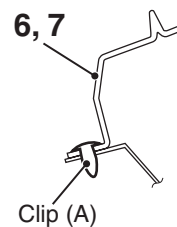
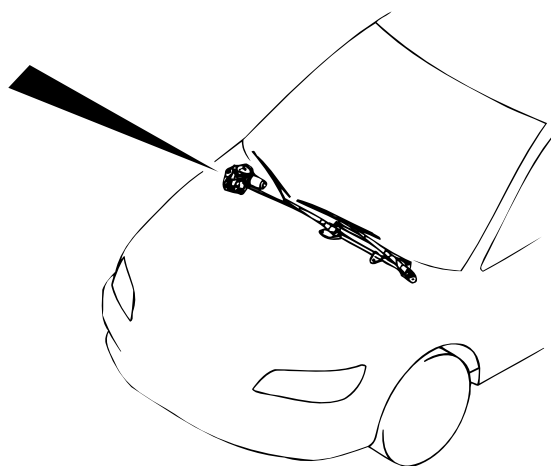
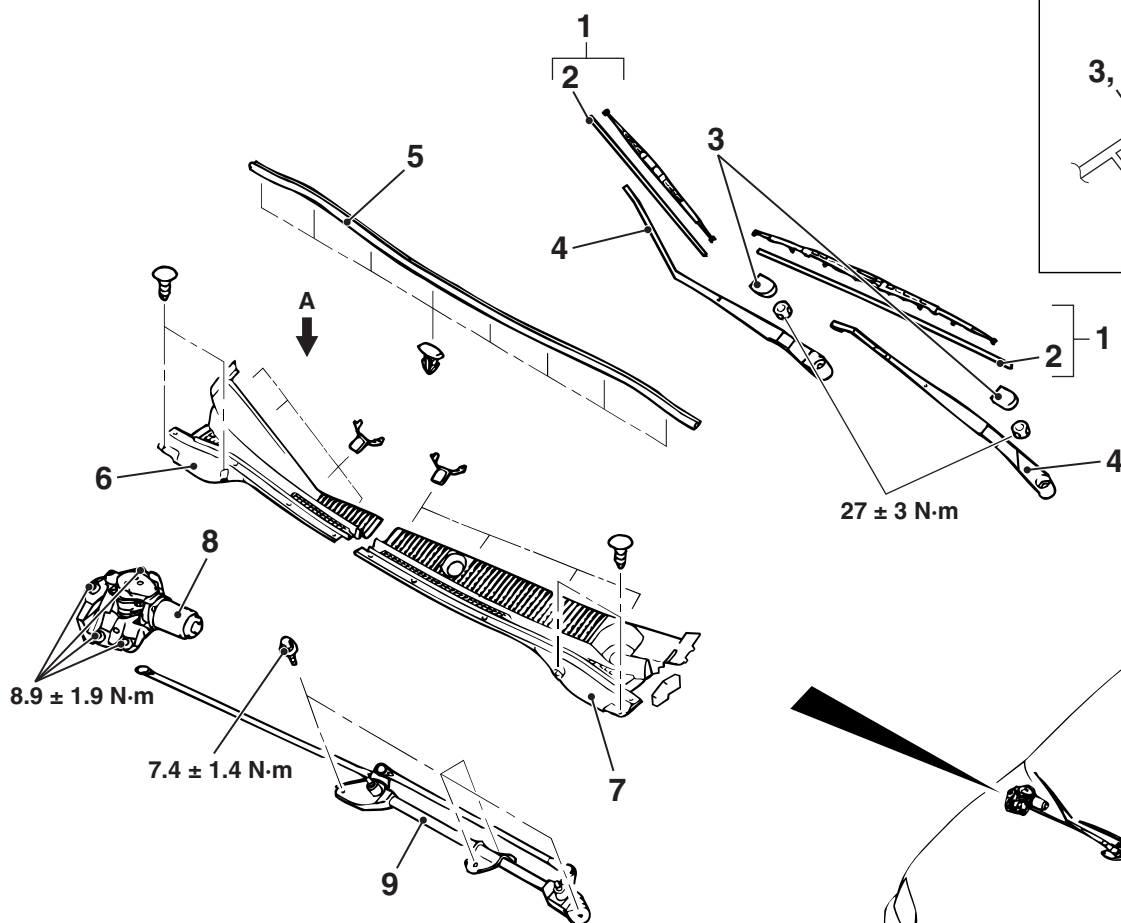
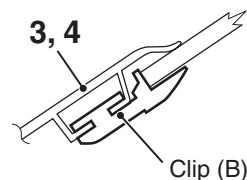
M1511021900054

1. If the windshield intermittent wiper interval adjusting knob is operated, the wiper interval should change.
2. Holding the windshield intermittent wiper interval adjusting knob, input the simulated vehicle speed with M.U.T.-II / III and check that the wiper interval changes as the vehicle speed changes.
3. If not, carry out the troubleshooting (Refer to GROUP 54B, Troubleshooting [P.54B-13](#) or GROUP 54C, Troubleshooting [P.54C-4](#)).

WINDSHIELD WIPER

REMOVAL AND INSTALLATION

M1511007900209

**Section A – A****Section B – B**

AC211876AF

Wiper blade assembly removal steps

- >>B<< 1. Wiper blade assembly
 >>A<< 2. Wiper blade

Windshield wiper motor and link assembly removal steps

3. Cover
 4. Wiper arm

<<A>>

Windshield wiper motor and link assembly removal steps (Continued)

5. Hood weather strip
 6. Front deck garnish (Passenger's side)
 7. Front deck garnish (Driver's side)
 8. Windshield wiper motor assembly
 9. Link assembly

NOTE: For removal and installation of the wiper and washer switch, refer to GROUP 54A, Column switch P.54A-73.

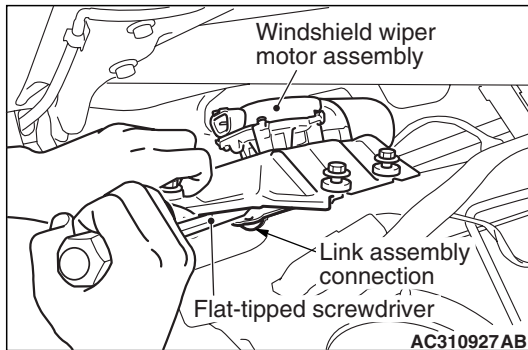
REMOVAL SERVICE POINT

<<A>> WINDSHIELD WIPER MOTOR ASSEMBLY REMOVAL

1. Remove the windshield wiper motor assembly mounting bolts.

CAUTION

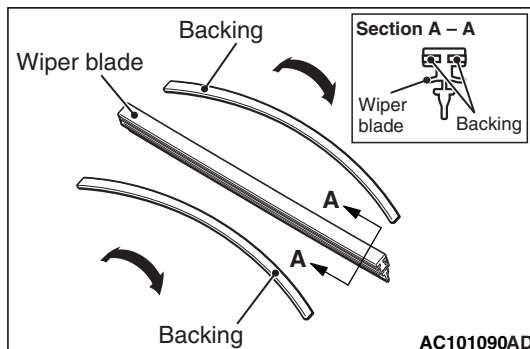
Be careful not to damage the windshield glass when removing the windshield wiper motor assembly.



2. Use the flat-tipped screwdriver to disengage the link between the windshield wiper motor assembly and the link assembly.

INSTALLATION SERVICE POINTS

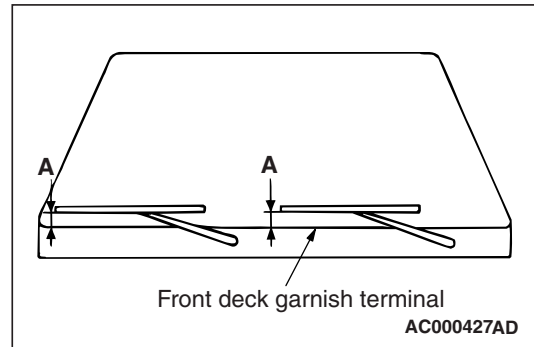
>>A<< WIPER BLADE INSTALLATION



CAUTION

Ensure that the backings are bent in the shown direction, and then install the backings to the wiper blade.

>>B<< WIPER BLADE ASSEMBLY INSTALLATION



Install the wiper blade at the specified position (standard value).

Standard value: (A) 69 ± 5 mm

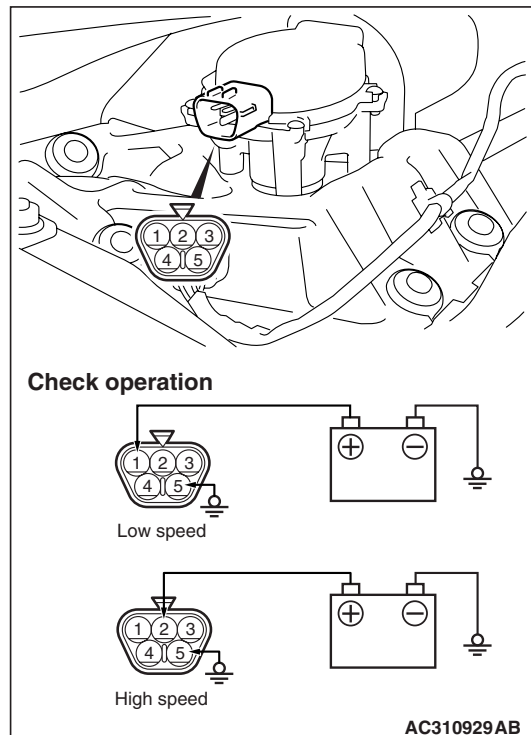
INSPECTION

M1511008000209

FRONT WIPER MOTOR CHECK

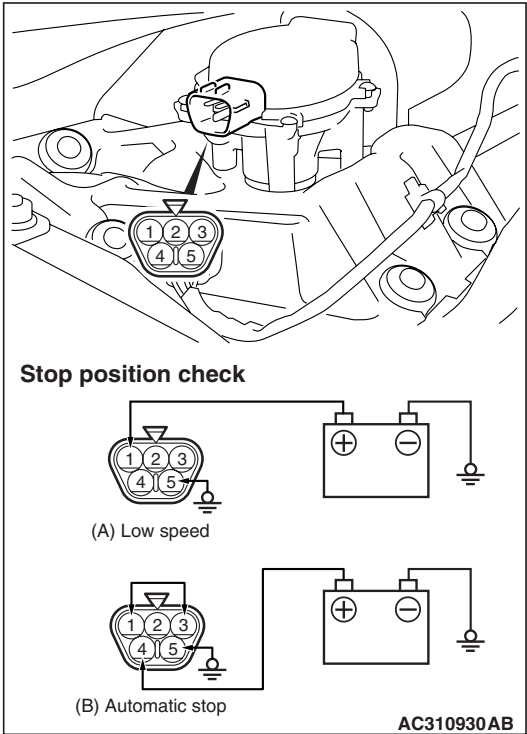
Inspect the windshield wiper motor by removing the harness connector with the motor attached to the vehicle.

WIPER MOTOR AT LOW OR HIGH SPEED OPERATION



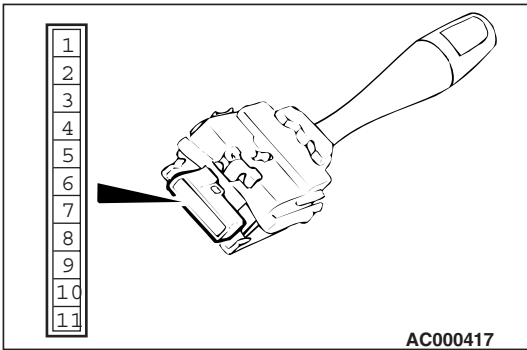
Connect the battery to the windshield wiper motor to inspect the operation of motor rotation in low or high speed.

WIPER MOTOR AT STOP POSITION
OPERATION



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.

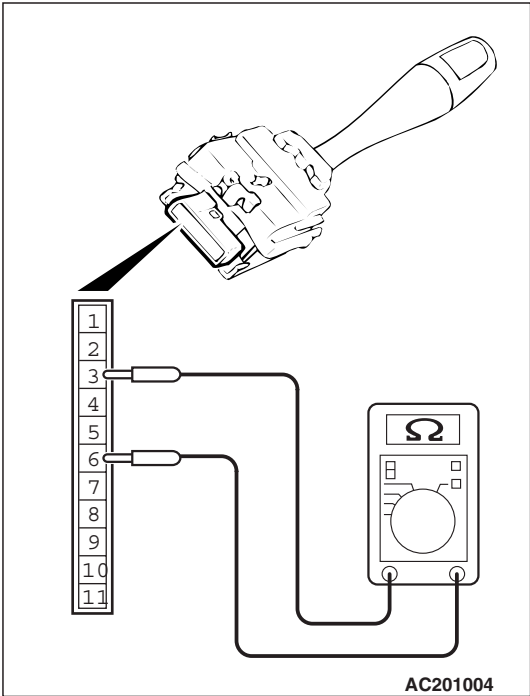
WINDSHIELD WIPER AND WINDSHIELD
WASHER SWITCH CHECK



Check continuity between the switch terminals.

Switch position	Tester connection	Specified condition
OFF	6 – 11, 6 – 10, 6 – 9, 6 – 8, 6 – 7	Open circuit
Windshield mist wiper switch	6 – 11	Less than 2 ohms
Windshield intermittent wiper switch	6 – 10	
Windshield low-speed wiper switch	6 – 9	
Windshield high-speed wiper switch	6 – 8	
Windshield washer switch	6 – 7	

WINDSHIELD INTERMITTENT WIPER
VOLUME CHECK

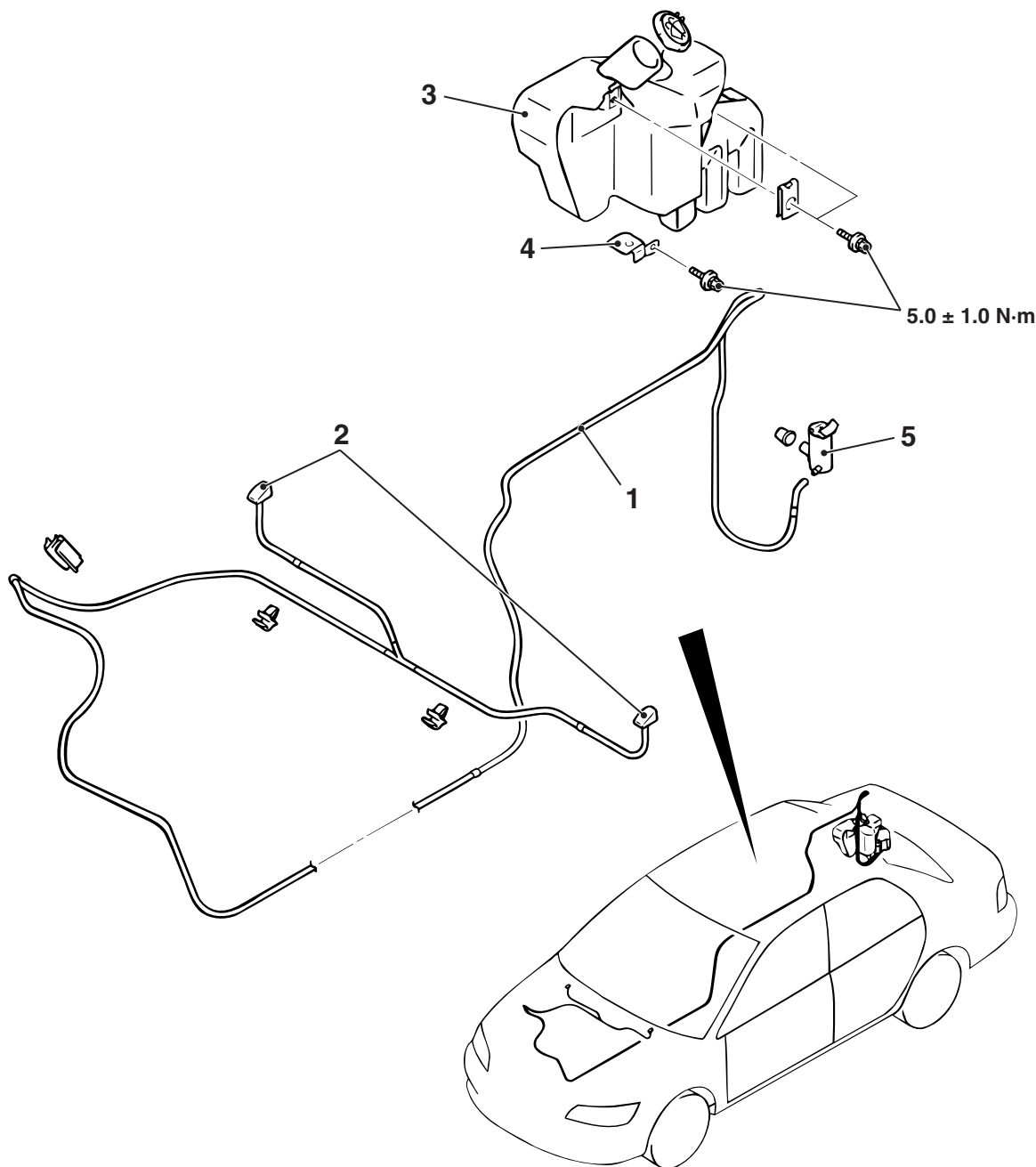


Check that the resistance varies between 0 and 1 k Ω when the windshield intermittent volume is turned from FAST to SLOW after measuring resistance between connector terminals 3 and 6 at the column switch.

WINDSHIELD WASHER

REMOVAL AND INSTALLATION

M1511008200407



AC310066 AB

Washer hose removal steps

- Splash shield <Right side> (Refer to GROUP 42, Fender [P.42-6](#)).
 - Cowl side trim, front scuff plate, centre pillar trim, lower, rear scuff plate (Refer to GROUP 52A, Trim [P.52A-10](#)).
 - Rear seat (Refer to GROUP 52A, Seat [P.52A-20](#)).
1. Front washer hose

Windshield washer nozzle removal steps

- Connection of washer hose
2. Windshield washer nozzle

Washer tank and washer motor removal steps

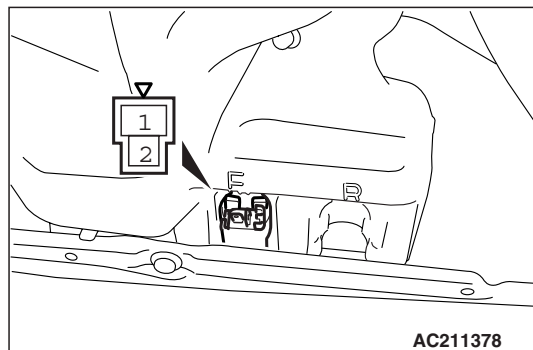
- Rear end trim, trunk side trim (Refer to GROUP 52A, Trim [P.52A-10](#)).
 - Connection of front washer hose
3. Washer tank assembly
 4. Washer tank bracket
 5. Front washer motor

NOTE: For removal and installation of the wiper and washer switch, refer to GROUP 54A, Column switch P.54A-73.

INSPECTION

FRONT WASHER MOTOR CHECK

M1511008300200



1. Remove the washer tank assembly with the washer hose attached. Then fill the washer tank with water.
2. Check to see that the water is vigorously sprayed. When connecting the positive battery terminal to terminal number 2 and terminal number 1 to the negative battery terminal.

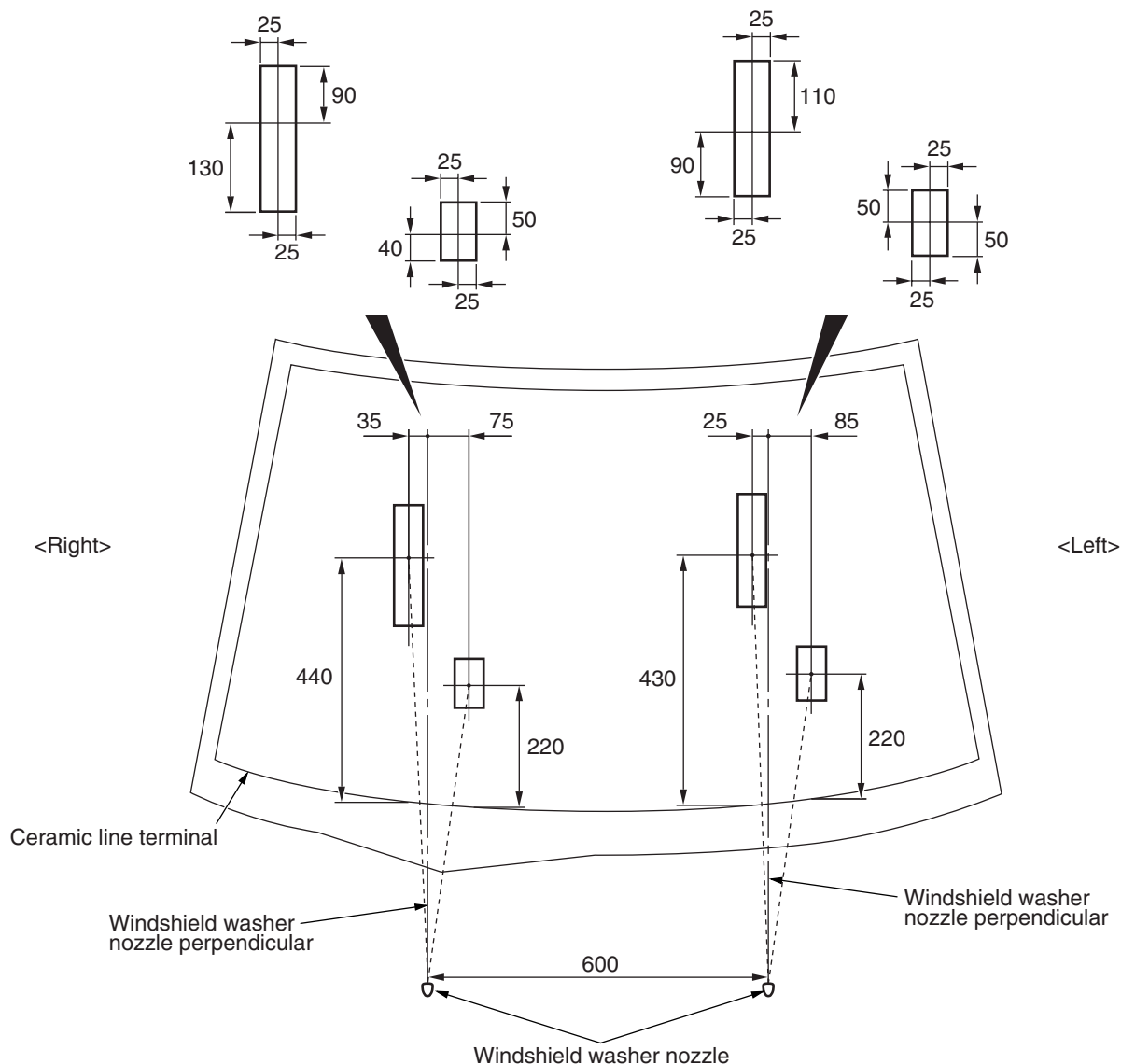
WINDSHIELD WASHER FLUID EJECTION CHECK

Move the nozzle to adjust the position so that the spray is in the area shown in the illustration.

CAUTION

On RH drive vehicles, the illustration is symmetrical.

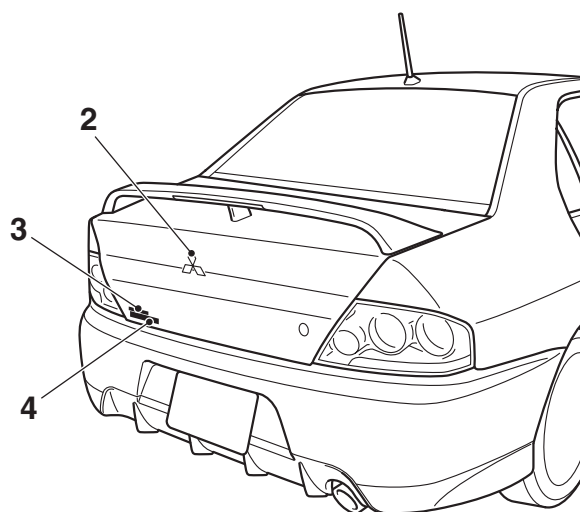
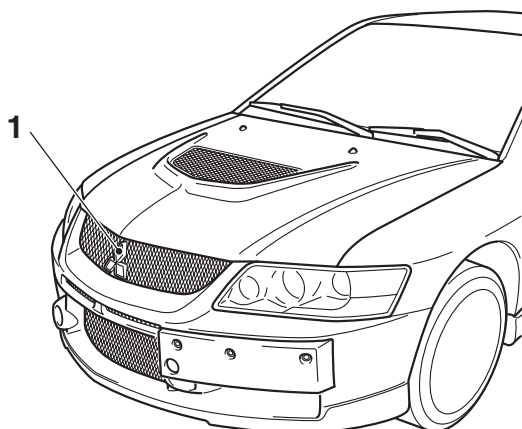
Units: mm



MARK

REMOVAL AND INSTALLATION

M1511011801424



AC504528AC

Removal

1. Front three-diamond mark (Refer to [P.51-3](#)).
- >>A<< 2. Rear three-diamond mark

Removal (Continued)

- >>A<< 3. LANCER mark
- >>A<< 4. Evolution mark

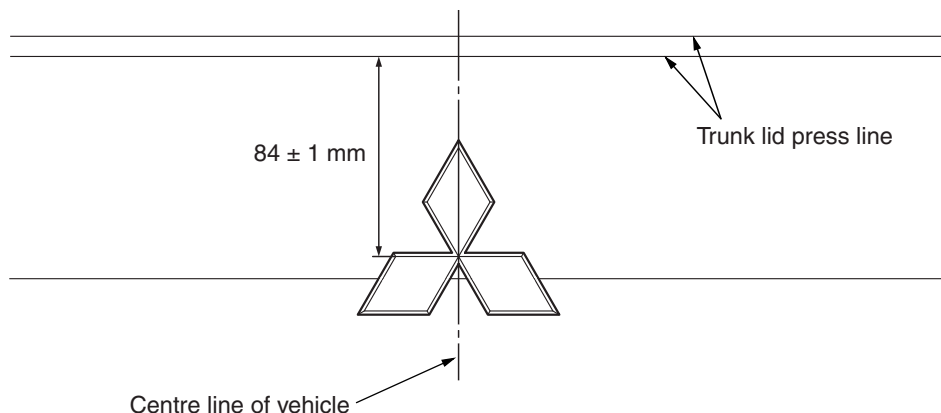
INSTALLATION SERVICE POINT

>>A<< MARK APPLICATION

1. Installation position

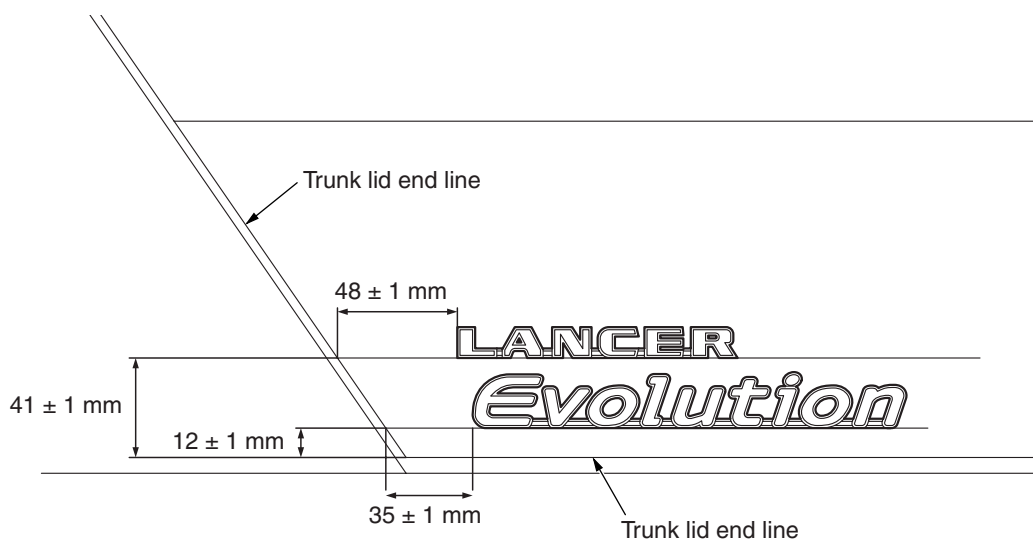
Rear three-diamond mark

Attach each mark to the position shown in the illustration.



AC309915AF

LANCER mark, Evolution mark



AC210731AE

2. Installation procedure

- (1) Use 3M ATD Part number 8906 or equivalent to clean the mark installation surfaces on the body.

CAUTION

When attaching the marks, the ambient temperature should be 20 – 38°C and the air should be completely free of dust. If the ambient temperature is lower than 20°C, the marks and the places on the vehicle body where the marks are to be attached should be heated to 20 – 38°C.

- (2) Peel off the protection sheet on the back of the marks to paste it on the installation position.

DOOR MIRROR

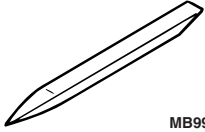
SERVICE SPECIFICATION

M1511000300347

Item	Standard value
Heated door mirror operation current Ω	5.9 – 7.8

SPECIAL TOOL

M1511000601103

Tool	Number	Name	Use
 MB990784	MB990784	Ornament remover	Removal of remote controlled mirror switch

TROUBLESHOOTING

DIAGNOSIS TROUBLESHOOTING FLOW

M1511014600169

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points [P.00-5](#).

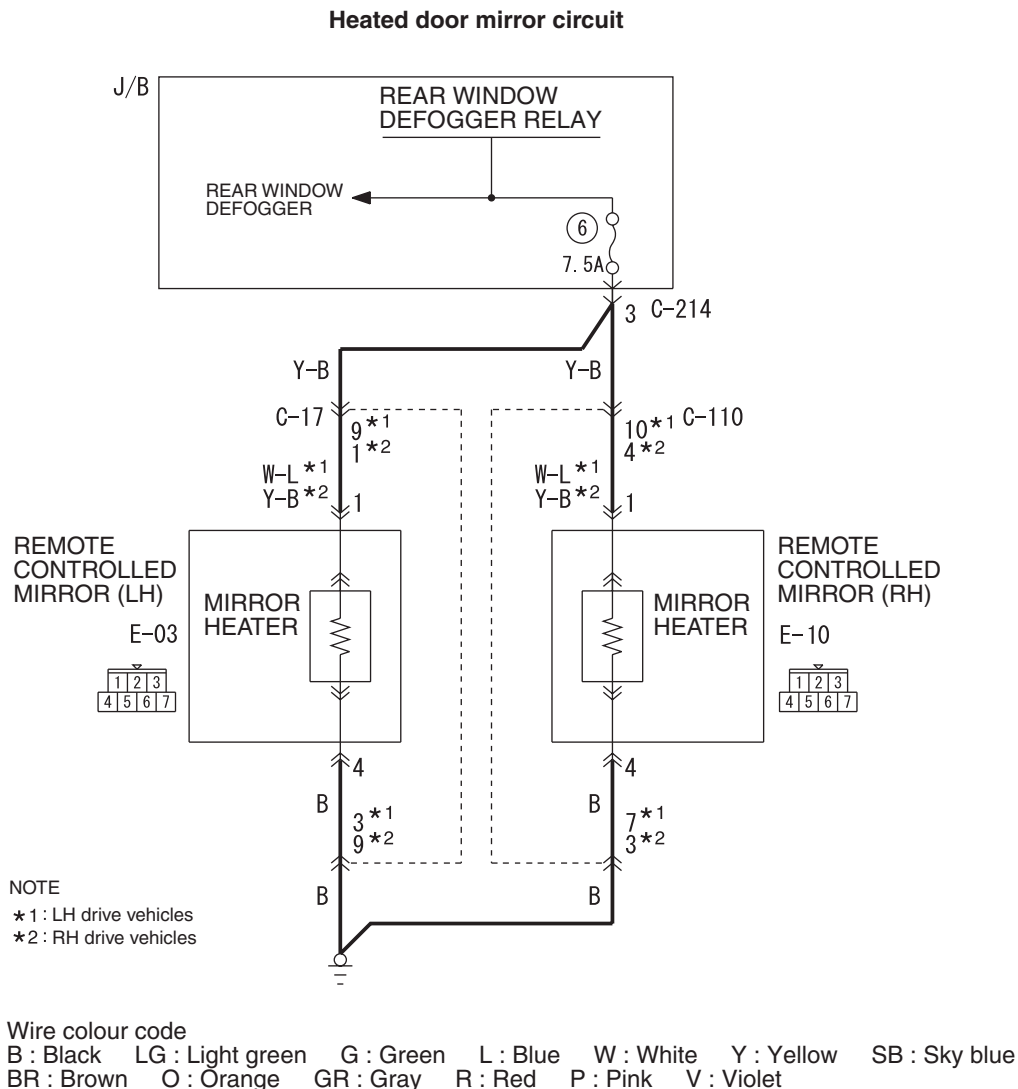
TROUBLE SYMPTOM CHART

M1511015000245

Symptom	Inspection procedure	Reference page
All heated door mirrors do not operate	1	P.51-28
Right or left heated door mirror does not operate	2	P.51-29

SYMPTOM PROCEDURES

Inspection Procedure 1: All Heated Door Mirrors do not Operate



W4J51E001A

COMMENTS ON TROUBLE SYMPTOM

The heated door mirrors should work for approximately 11 minutes when the rear defogger switch is turned on. If the mirror heater does not work for the specified period, the defogger relay circuit (heated door mirror power supply circuit) may be defective.

PROBABLE CAUSE

- Damaged harness wire and connector

DIAGNOSIS PROCEDURE

STEP 1. Check the rear window defogger.

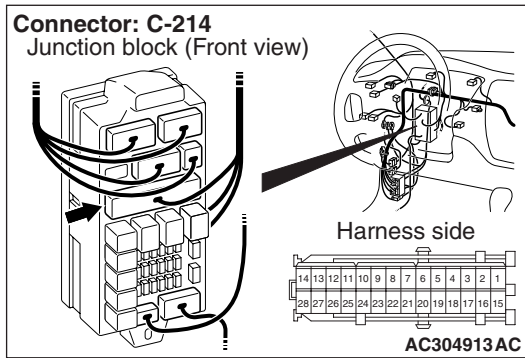
Check that the rear window defogger system should work normally.

Q: Is the check result normal?

YES : Go to Step 2.

NO : Troubleshoot the rear window defogger (Refer to GROUP 55, Troubleshooting P.55-63).

STEP 2. Connector check: C-214 junction block connector



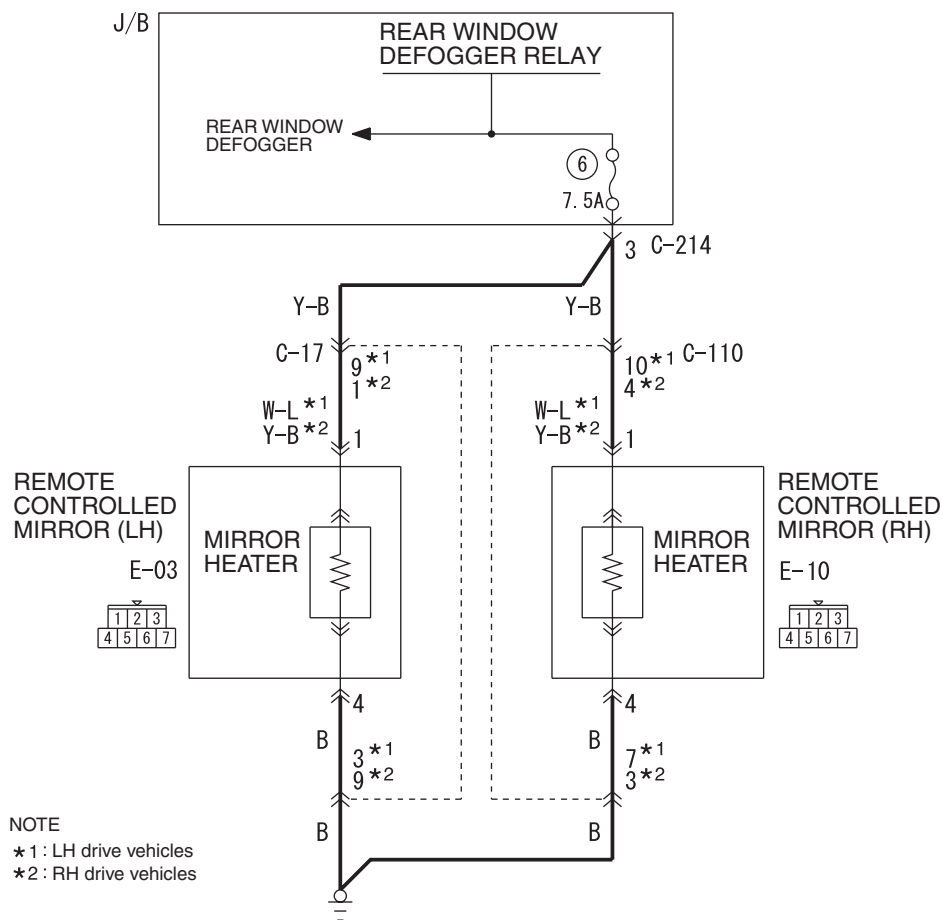
Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction P.00-5).

NO : Repair the defective connector.

Inspection Procedure 2: Right or Left Heated Door Mirror does not Operate

Heated door mirror circuit



Wire colour code

B : Black LG : Light green G : Green L : Blue W : White Y : Yellow SB : Sky blue
BR : Brown O : Orange GR : Gray R : Red P : Pink V : Violet

COMMENTS ON TROUBLE SYMPTOM

If either of the heated door mirrors does not work, the door mirror assembly may be defective.

PROBABLE CAUSES

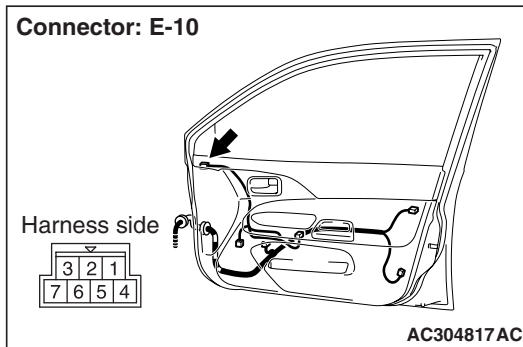
- Malfunction of the door mirror assembly
- Damaged harness wires and connectors

DIAGNOSIS PROCEDURE**STEP 1. Verify the operation of each heated door mirror.**

Q: Which door mirror does not heat?

Door mirror (RH) : Go to Step 2.

Door mirror (LH) : Go to Step 9.

STEP 2. Connector check: E-10 door mirror assembly (RH) connector

Q: Is the check result normal?

YES : Go to Step 3.

NO : Repair the defective connector.

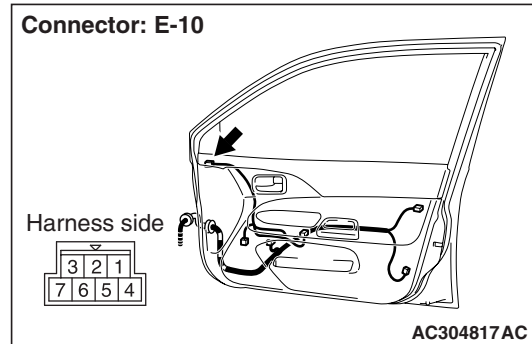
STEP 3. Check the door mirror assembly (RH).

Check that the heater element of the door mirror assembly (RH) is in good condition (Refer to P.51-36).

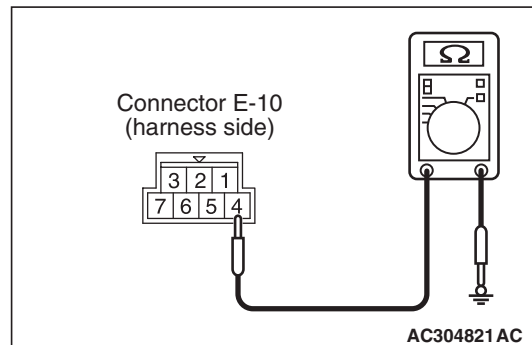
Q: Is the check result normal?

YES : Go to Step 4.

NO : Replace the door mirror assembly (RH).

STEP 4. Resistance measurement at the E-10 door mirror assembly (RH) connector.

(1) Disconnect the connector, and measure at the wiring harness side.



(2) Resistance between E-10 door mirror assembly connector terminal No.4 and body earth

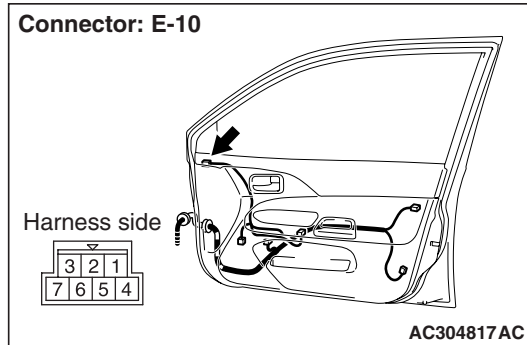
OK: 2 Ω or less

Q: Is the check result normal?

YES : Go to Step 6.

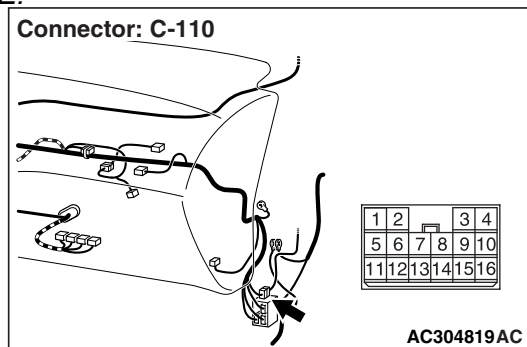
NO : Go to Step 5.

STEP 5. Check the wiring harness between E-10 door mirror assembly (RH) connector terminal No.4 and body earth.



- Check the earth wires for open circuit.

NOTE:



Prior to the wiring harness inspection, check intermediate connector C-110 and repair if necessary.

Q: Is the check result normal?

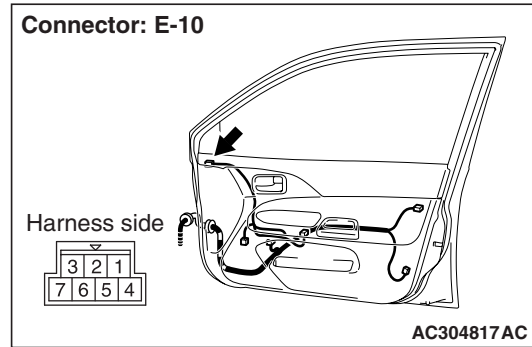
YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction [P.00-5](#)).

NO : Repair the wiring harness.

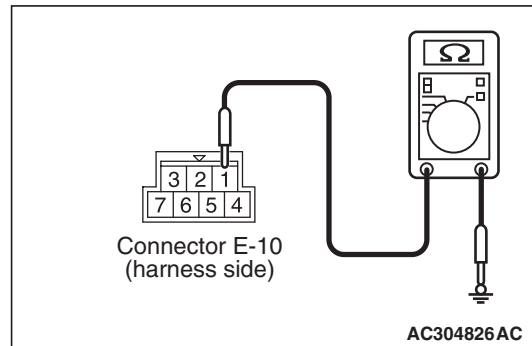
STEP 6. Voltage measurement at the E-10 door mirror assembly (RH) connector.

(1) Turn the ignition switch to the ON position.

(2) Rear window defogger switch: ON



(3) Disconnect the connector, and measure at the wiring harness side.



(4) Voltage between E-10 door mirror assembly connector terminal No.1 and body earth

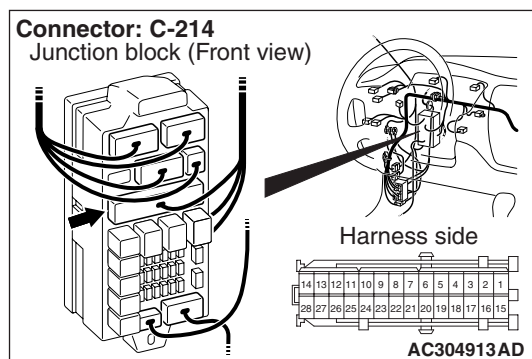
OK: System voltage

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction [P.00-5](#)).

NO : Go to Step 7.

STEP 7. Connector check: C-214 junction block connector

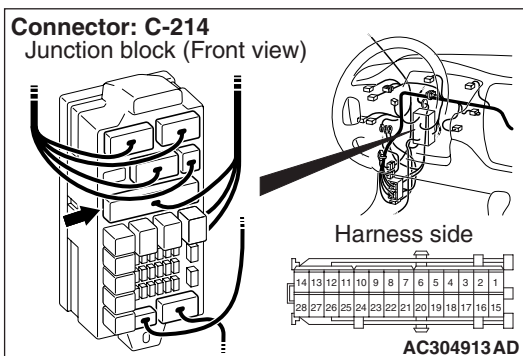
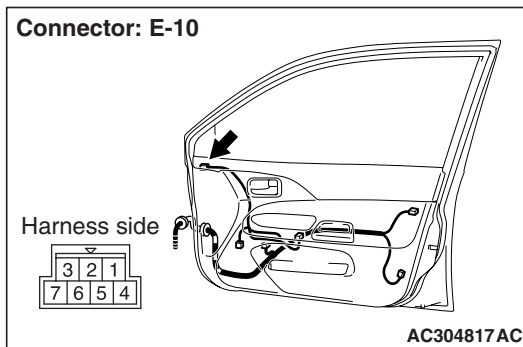


Q: Is the check result normal?

YES : Go to Step 8.

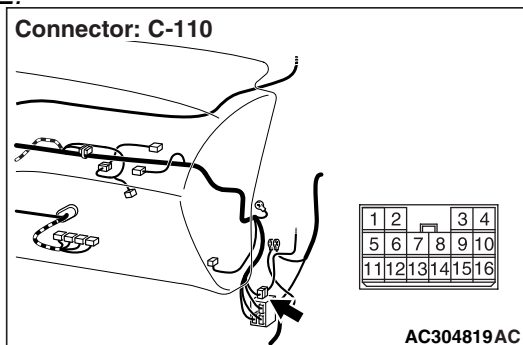
NO : Repair the defective connector.

STEP 8. Check the wiring harness between E-10 door mirror assembly (RH) connector terminal No.1 and C-214 junction block connector terminal No.3.



- Check the power supply line for open circuit.

NOTE:



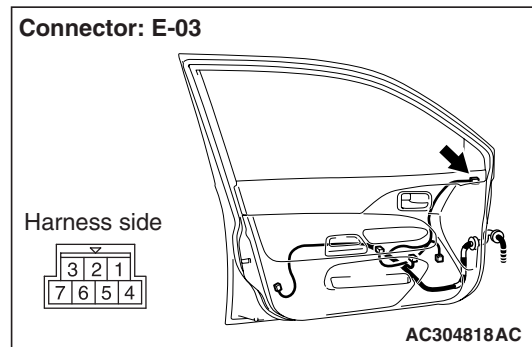
Prior to the wiring harness inspection, check intermediate connector C-110 and repair if necessary.

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction [P.00-5](#)).

NO : Repair the wiring harness.

STEP 9. Connector check: E-03 door mirror assembly (LH) connector



Q: Is the check result normal?

YES : Go to Step 10.

NO : Repair the defective connector.

STEP 10. Check the door mirror assembly (LH).

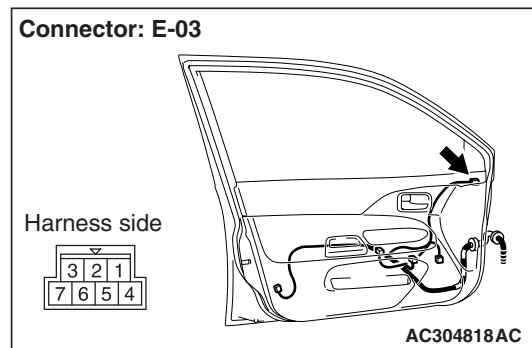
Check that the heater element of the door mirror assembly (LH) is in good condition (Refer to [P.51-36](#)).

Q: Is the check result normal?

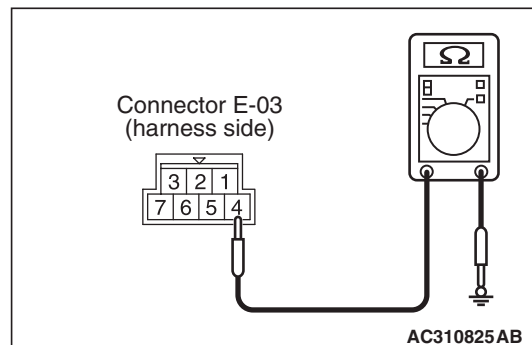
YES : Go to Step 11.

NO : Replace the door mirror assembly (LH).

STEP 11. Resistance measurement at the E-03 door mirror assembly (LH) connector.



- (1) Disconnect the connector, and measure at the wiring harness side.



- (2) Resistance between E-03 door mirror assembly connector terminal No.4 and body earth

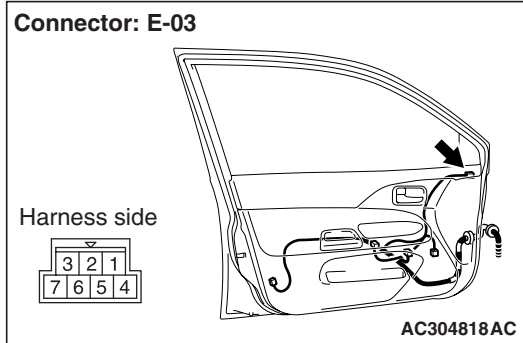
OK: 2 Ω or less

Q: Is the check result normal?

YES : Go to Step 14.

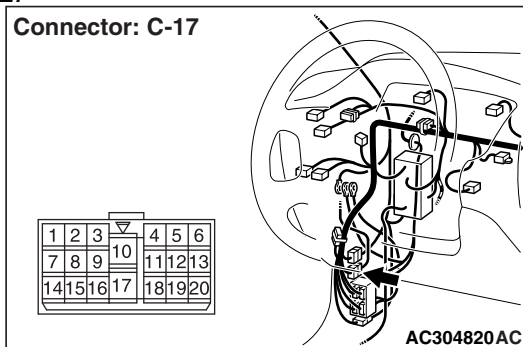
NO : Go to Step 12.

STEP 12. Check the wiring harness between E-03 door mirror assembly (LH) connector terminal No.4 and body earth.



- Check the earth wires for open circuit.

NOTE:



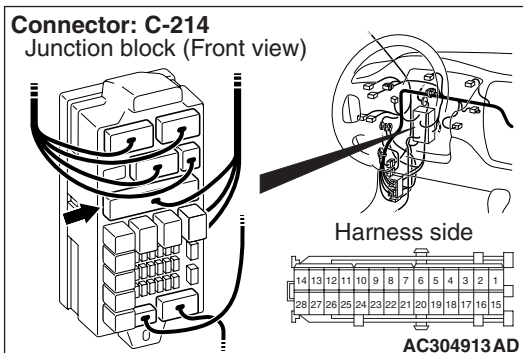
Prior to the wiring harness inspection, check intermediate connector C-17 and repair if necessary.

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction P.00-5).

NO : Repair the wiring harness.

STEP 13. Connector check: C-214 junction block connector



Q: Is the check result normal?

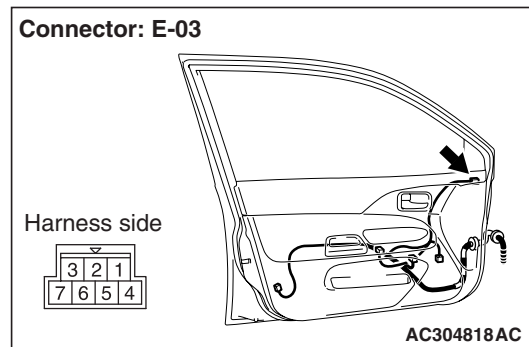
YES : Go to Step 14.

NO : Repair the defective connector.

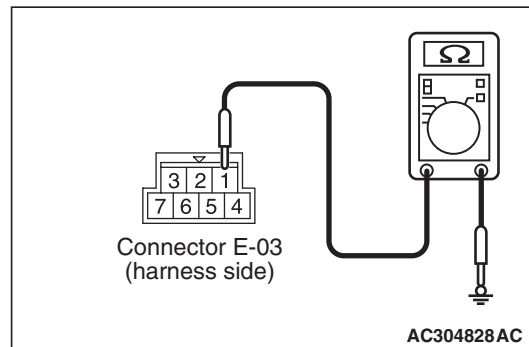
STEP 14. Measure the voltage at the E-03 door mirror assembly (LH) connector.

(1) Turn the ignition switch to the ON position.

(2) Rear window defogger switch: ON



(3) Disconnect the connector, and measure at the wiring harness side.



(4) Voltage between E-03 door mirror assembly connector terminal No.1 and body earth

OK: System voltage

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction P.00-5).

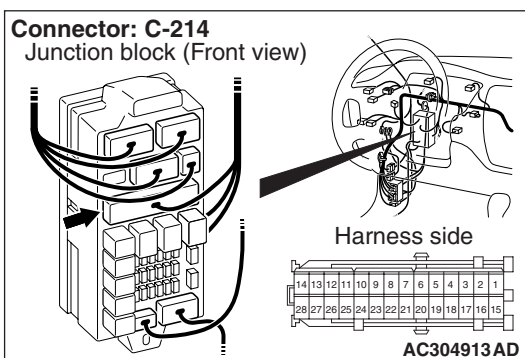
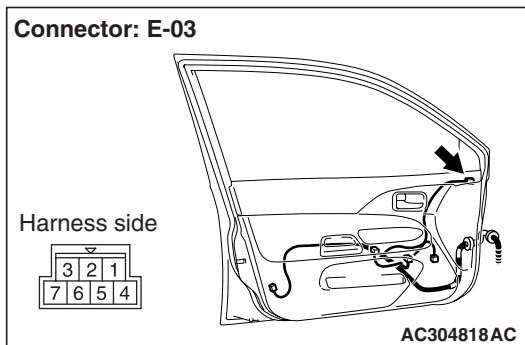
NO : Go to Step 15.

STEP 15. Check the wiring harness between E-03 door mirror assembly (LH) connector terminal No.1 and C-214 junction block connector terminal No.3.

Q: Is the check result normal?

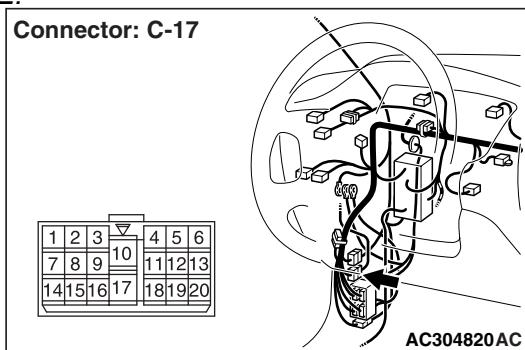
YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction [P.00-5](#)).

NO : Repair the wiring harness.



- Check the power supply line for open circuit.

NOTE:

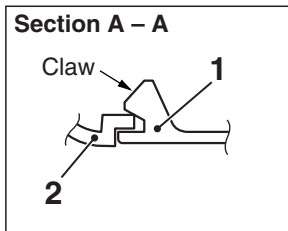
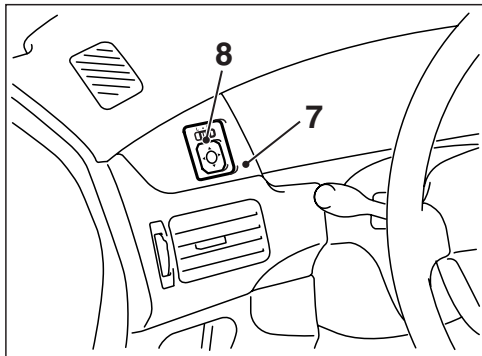


Prior to the wiring harness inspection, check intermediate connector C-17 and repair if necessary.

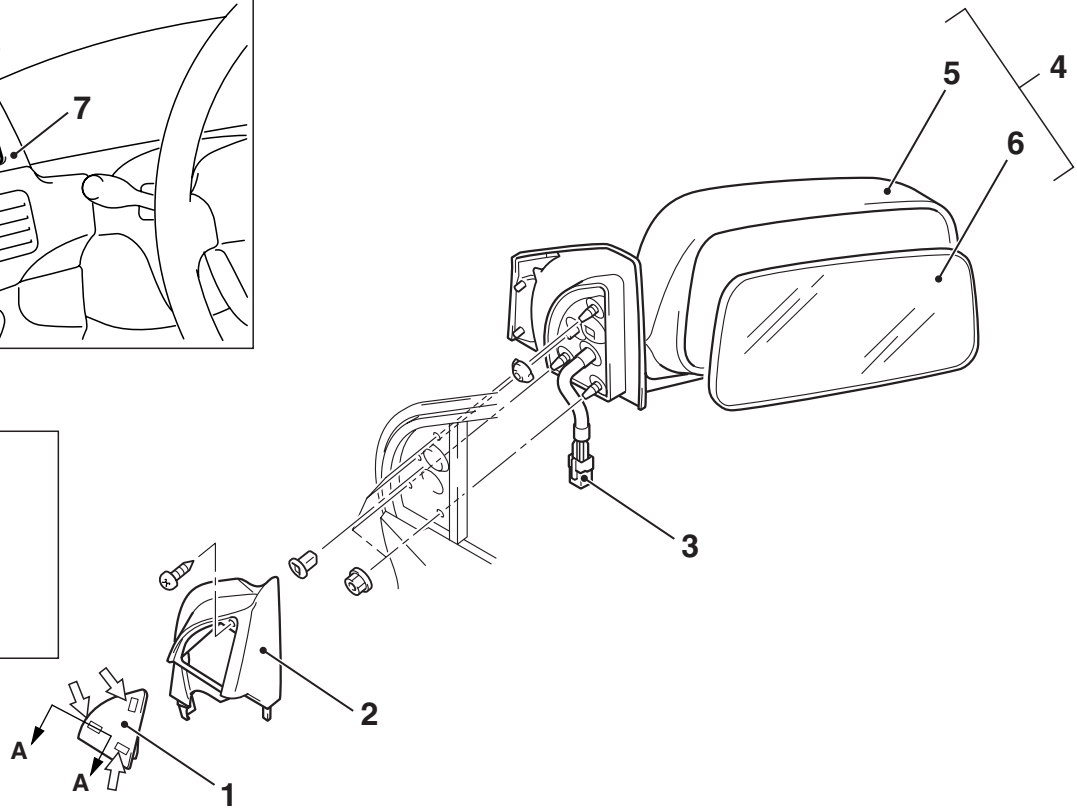
DOOR MIRROR

REMOVAL AND INSTALLATION

M1511006400461



Note
← : Claw positions



Door mirror removal steps

1. Cover
2. Delta inner cover
3. Harness connector
4. Door mirror assembly
5. Door mirror body assembly
6. Mirror

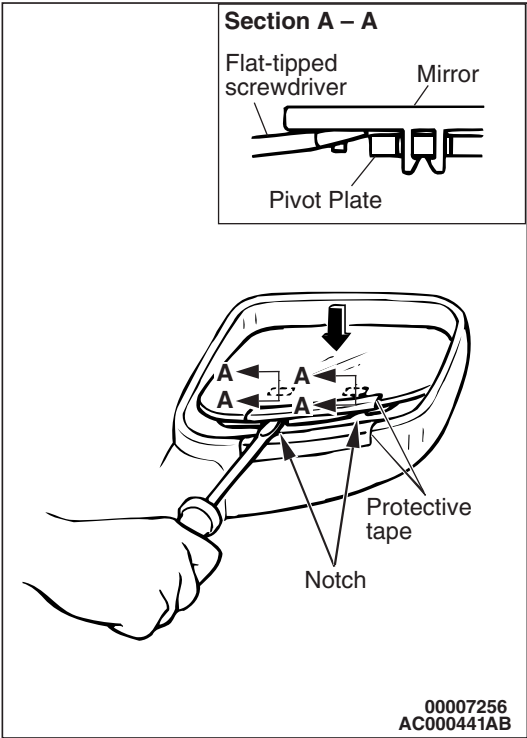
<<A>> >>A<<

AC304733AC

Remote controlled mirror switch removal steps

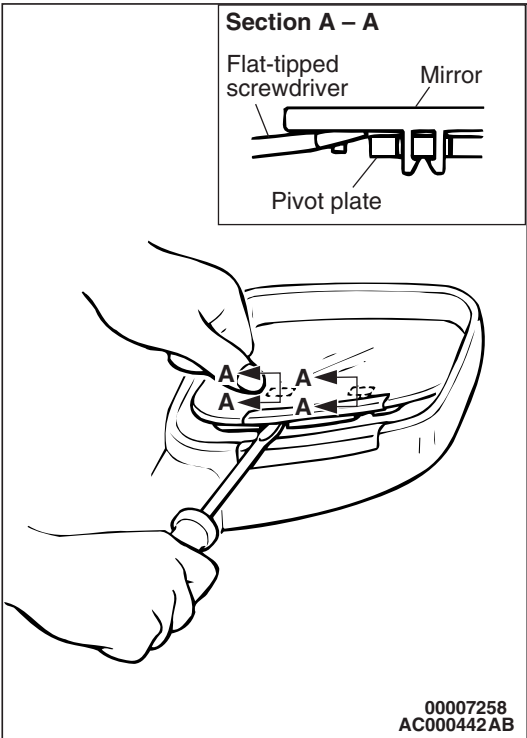
7. Instrument panel ornament (Refer to GROUP 52A, Instrument Panel [P.52A-2](#)).
8. Remote controlled mirror switch

REMOVAL SERVICE POINT
<<A>> MIRROR REMOVAL



Push the top of the mirror with your hand to tilt it and attach the protective tape as shown in the illustration. Then insert a flat-tipped screwdriver in between the notch at the rear of the mirror and the pivot plate, and disengage the bottom of the mirror.

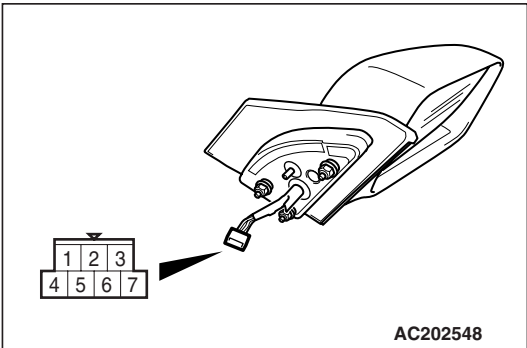
INSTALLATION SERVICE POINT
>>A<< MIRROR INSTALLATION



While supporting the clip position on the underside of the pivot plate with a flat-tipped screwdriver, press the clip at the front of the mirror to engage the bottom of the mirror.

INSPECTION

ELECTRIC REMOTE CONTROL MIRROR
OPERATION CHECK

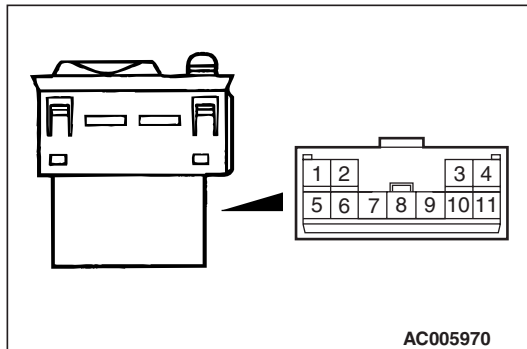


Check that the mirror moves as described in the table when each terminal is connected to the battery.

M1511006500372

Battery connection	Direction operation
- Connect terminal 5 to the negative battery terminal. - Connect terminal 7 to the positive battery terminal.	Mirror glass should face upward
- Connect terminal 7 to the negative battery terminal. - Connect terminal 5 to the positive battery terminal.	Mirror glass should face downward
- Connect terminal 5 to the negative battery terminal. - Connect terminal 6 to the positive battery terminal.	Mirror glass should face to the right
- Connect terminal 6 to the negative battery terminal. - Connect terminal 5 to the positive battery terminal.	Mirror glass should face to the left

DOOR MIRROR CONTROL SWITCH CONTINUITY CHECK

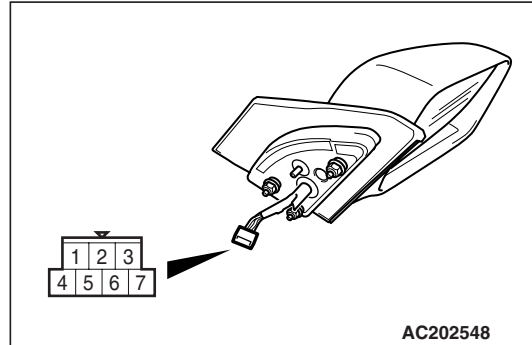


Switch position		Tester connection	Specified condition
OFF		9 – 2, 9 – 3, 9 – 6, 9 – 10, 9 – 11, 1 – 2, 1 – 3, 1 – 6, 1 – 10, 1 – 11	Open circuit
Left side	OFF	9 – 6, 9 – 10, 9 – 11, 1 – 6, 1 – 10, 1 – 11	Open circuit
	Up	1 – 6, 9 – 11	Less than 2 ohms
	Down	1 – 11, 6 – 9	
	Right	1 – 6, 9 – 10	
	Left	1 – 10, 6 – 9	
Right side	OFF	9 – 2, 9 – 3, 9 – 6, 1 – 2, 1 – 3, 1 – 6	Open circuit
	Up	1 – 6, 3 – 9	Less than 2 ohms
	Down	1 – 3, 6 – 9	
	Right	1 – 6, 2 – 9	
	Left	1 – 2, 6 – 9	

HEATED DOOR MIRROR CHECK

⚠ CAUTION

When relocating the car between locations with extremely different temperatures (warm and cold), leave the car in the location for a while to adapt to the temperature prior to checking it.



The resistance value between door mirror connector terminals 1 and 4 should meet the standard value with the ambient temperature at a steady 25°C.

Standard value: 5.9 – 7.8 Ω

NOTES