SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : INFORMATION	ISSUE NO. : MSB-12EX42-001	DATE : 2012-12-14
SUBJECT : G42A BODY		<Destination/Model> (EUR/THAILAND) <M/Y> 13
GROUP : BODY		MIRAGE /SPACE STAR(A03A)

1. Description:

See the attached document for the information about the change of mention in the applicable service manual.

2. Applicable manual:

Destination	Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
EU	2013 SPACE STAR Workshop Manual	CA0E13E1-CD(ENG) CA0F13E1-CD(FRE) CA0G13E1-CD(GER) CA0I13E1-CD(ITA) CA0S13E1-CD(SPA)	ADJUSTMENT OF CLEARANCE AROUND HOOD (M421-00-720-60200-01) DOOR ADJUSTMENT (M423-00-090-56500-01) DOOR LATCH ASSEMBLY INSPECTION (M423-00-471-67400-01) LOOSE PANEL REMOVAL AND INSTALLATION (M421-00-311-37201-01)	Attached sheet 2
THAILAND	2013 MIRAGE Workshop Manual	PWFE1201R	ADJUSTMENT OF CLEARANCE AROUND HOOD (M421-00-720-60200-01) HOOD REMOVAL AND INSTALLATION (M421-00-162-32900-01) DOOR ADJUSTMENT (M423-00-090-56500-01) DOOR LATCH ASSEMBLY INSPECTION (M423-00-471-67400-01) LOOSE PANEL REMOVAL AND INSTALLATION (M421-00-311-37200-01)	Attached sheet 3

3. Details:

See the attached document

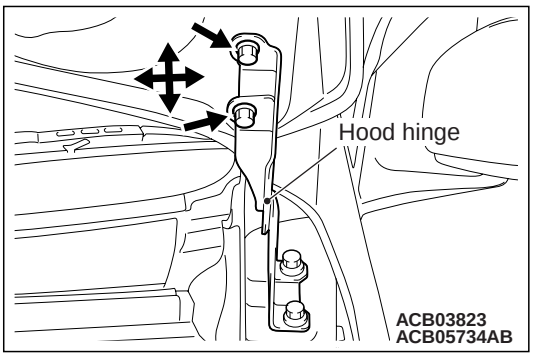
Attached sheet 2 (1/4)

HOOD

ON-VEHICLE SERVICE

ADJUSTMENT OF CLEARANCE AROUND HOOD

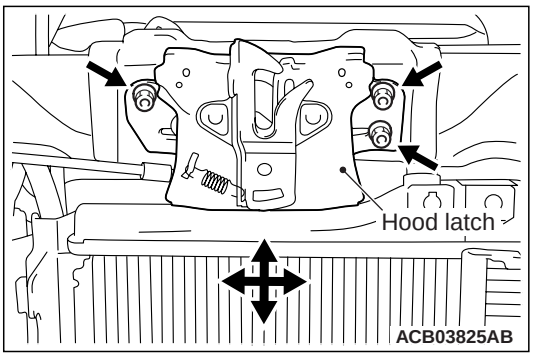
M1421007200602



1. Loosen the hood hinge mounting bolts but do not remove them. Move the hood hinge back/forth and left/right to align the clearance around hood.
2. After the adjustment, tighten the hood hinge mounting bolts to ~~9.5 ± 3.5 N·m~~ <Incorrect> 23 ± 6 N·m <Correct>.

ADJUSTMENT OF HOOD LEVEL AND HOOD STRIKER ENGAGEMENT

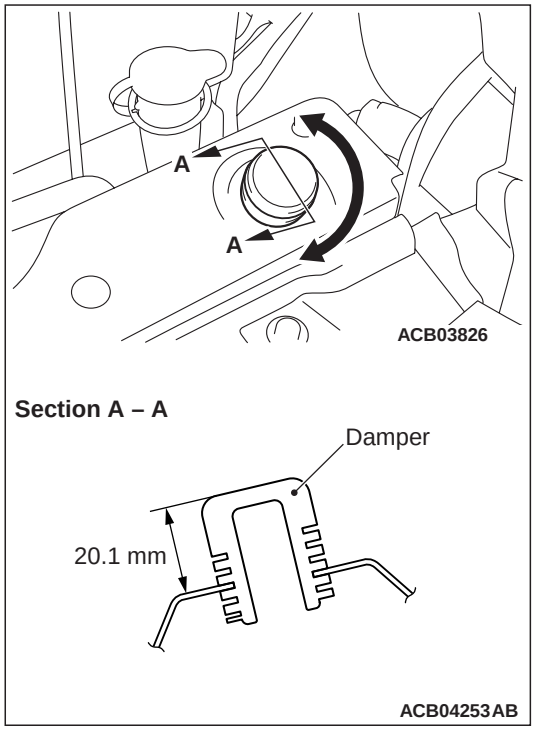
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1. Loosen the hood latch mounting bolts but do not remove them. Move the hood latch up/down and left/right to align the hood level and adjust the hood striker engagement.
2. After the adjustment, tighten the hood latch mounting bolts to 9.0 ± 1.0 N·m.

ADJUSTMENT OF HOOD HEIGHT

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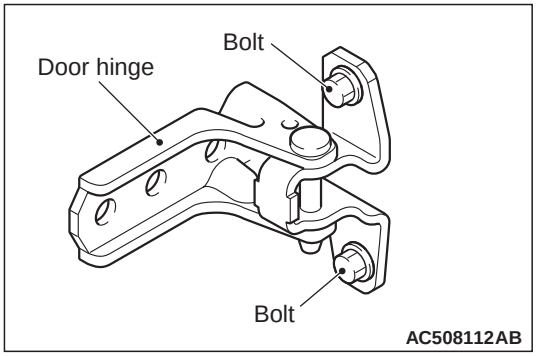


Turn the damper to the dimension shown in the figure to adjust the hood height. If the hood height is still not even, turn the damper again until the height is even. The damper height is altered by roughly 4 mm when the damper is rotated once.

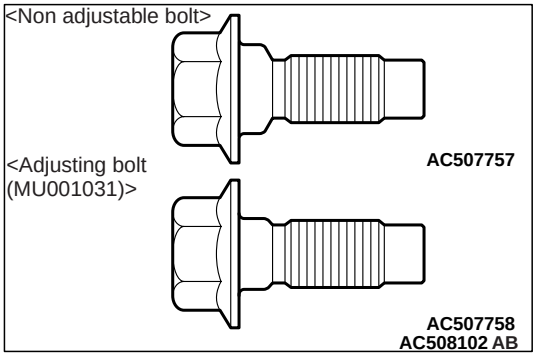
NOTE: If a rattling noise is heard due to the vibration of the hood when the vehicle is being driven, adjust the damper height until the damper is seated on the hood.

(3) Remove the centre pillar trim <Rear door> (Refer to GROUP 52A – Interior Trim).
(4) Use the door hinge adjusting wrench (Special tool: MB991163) to loosen the body-side door hinge mounting bolts (mounting nuts for the door upper hinge of the rear door).
(5) Move the door to adjust the clearance between the door and the body is even.

2. When the door is not flush with the body surface:



(1) Loosen the door-side hinge mounting bolts.
(2) Move the door to adjust so that the door is flush with the body surface.



(3) If adjustment is not possible, replace the door-side door hinge mounting bolt with the adjustment bolt (MU001031).

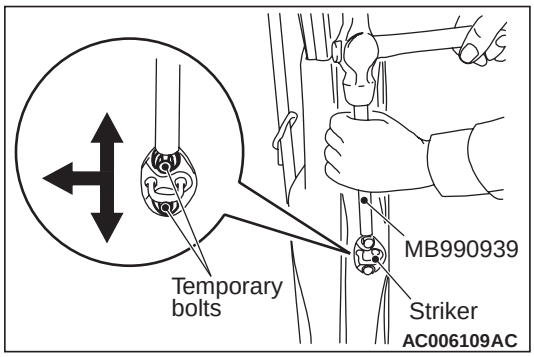
NOTE: If the adjustment bolt has been already installed, reuse it.

(4) Move the door to adjust so that the door is flush with the body surface.
(5) Tighten the door-side door hinge mounting bolt to the specified torque.

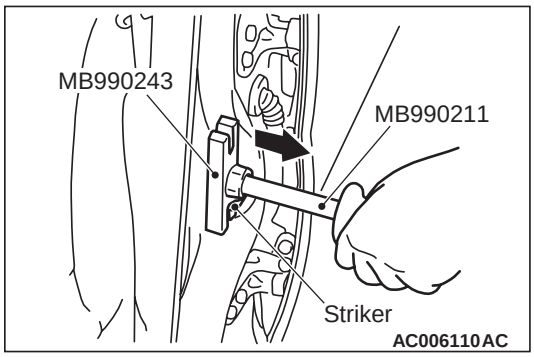
Tightening torque: 27 ± 6 N·m

3. When the door is stiff to close and open:

⚠ CAUTION
To adjust the striker, always turn the ignition switch to "LOCK" (OFF).



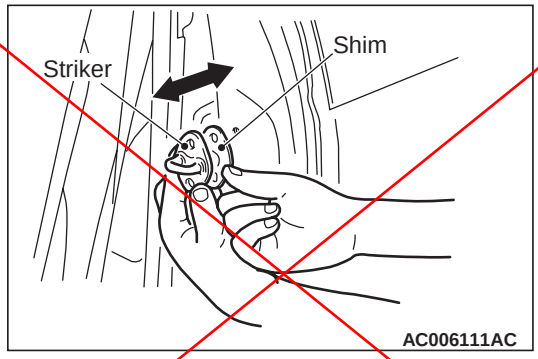
(1) Adjustment using the striker (toward the inside of the vehicle and vertical direction):
Install a temporary bolt instead of the striker mounting bolt, and use the remover bar (Special tool: MB990939) and a hammer to tap the temporary bolt to the desired direction.



(2) Adjustment by using the striker (toward the outside of the vehicle):
Using the following tools, pull the striker toward the outside of the vehicle to adjust.

- Slide hammer (MB990211)
- Body puller (MB990243)

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(3) Adjustment using shims: (forward and rearward)
Increase or decrease the number of shims so that the striker engages with the door latch properly.

Attached sheet 2 (3/4)

ACTUATOR OPERATION CHECK <FRONT RH AND REAR RH>

Claw position	Door inside handle lock knob position	Battery connection	Door inside handle lock knob operation
Full-latch	Lock	• Connect terminal 4 to negative battery terminal. • Connect terminal 3 to positive battery terminal.	Knob moves from "Lock" to "Unlock" position.
Full-latch	Unlock	• Connect terminal 4 to positive battery terminal. • Connect terminal 3 to negative battery terminal.	Knob moves from "Unlock" to "Lock" position.

ACTUATOR OPERATION CHECK <FRONT LH AND REAR LH>

Claw position	Door inside handle lock knob position	Battery connection	Door inside handle lock knob operation
Full-latch	Lock	• Connect terminal 1 to negative battery terminal. • Connect terminal 2 to positive battery terminal.	Knob moves from "Lock" to "Unlock" position.
Full-latch	Unlock	• Connect terminal 1 to positive battery terminal. • Connect terminal 2 to negative battery terminal.	Knob moves from "Unlock" to "Lock" position.

ACTUATOR SWITCH CHECK <FRONT RH>

Claw position	Door inside handle lock knob position	Tester connection	Specified condition
Full-latch	Lock	7 – 9	No continuity
Full-latch	Unlock	7 – 9	Continuity exists (2 Ω or less)

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ACTUATOR SWITCH CHECK <FRONT LH: VEHICLES WITH KOS>

Claw position	Door inside handle lock knob position	Tester connection	Specified condition
Full-latch	Lock	6 – 8	No continuity
Full-latch	Unlock	6 – 8	Continuity exists (2 Ω or less)

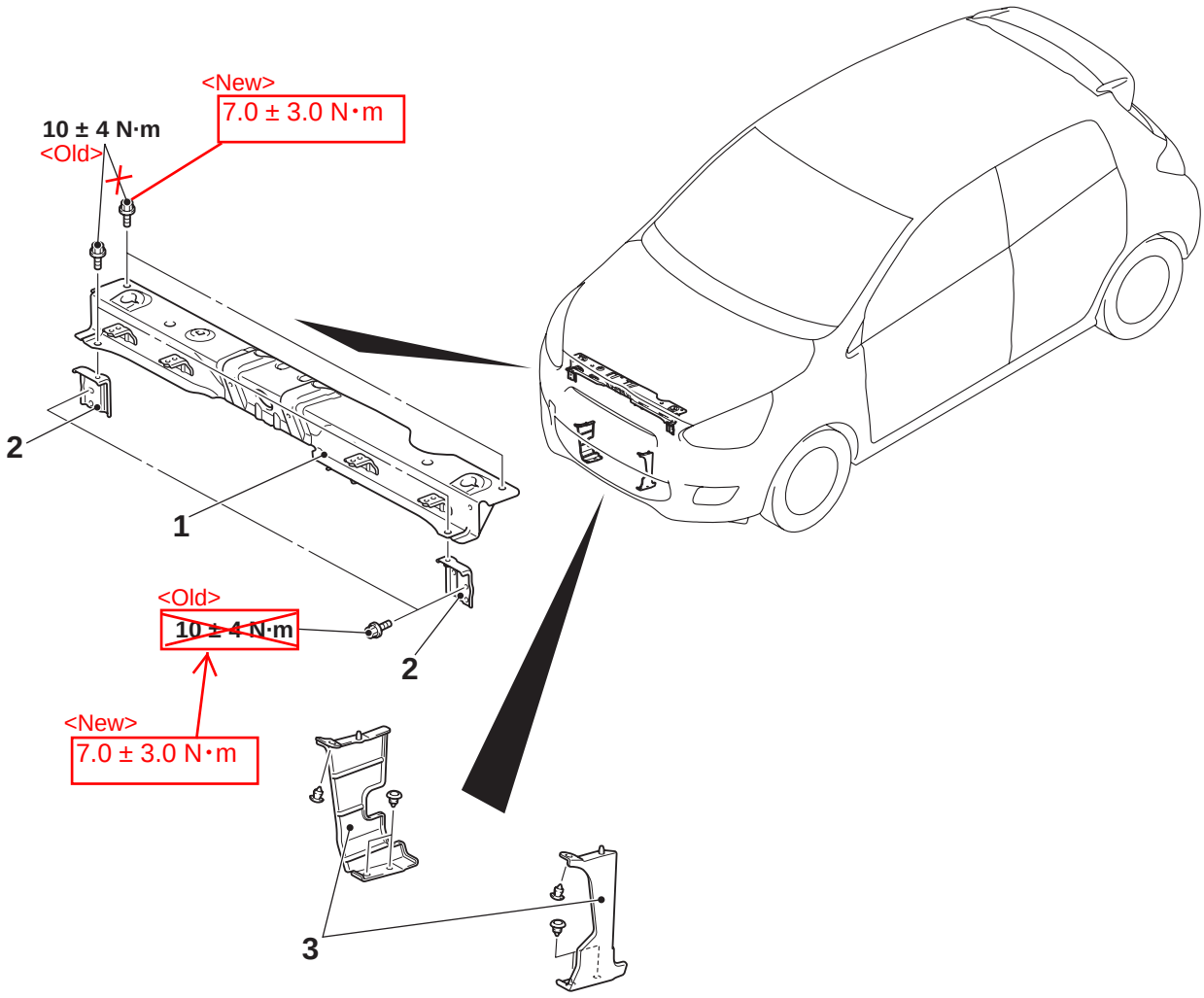
LOOSE PANEL

REMOVAL AND INSTALLATION

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⚠ CAUTION

- **Disconnect the battery (–) terminal and wait for 60 seconds or more before starting work. Insulate the disconnected (–) terminal by wrapping a tape.**
- **Handle the front impact sensor with sufficient caution, and do not drop the sensor or allow contact with water, oil, or others. If a dent, crack, deformation and others are discovered, replace it with a new one.**



ACB03500AB

Headlamp support panel upper removal steps

- Front bumper assembly (Refer to GROUP 51 – Front Bumper Assembly and Radiator Grille .)
- Hood latch, hood lock release cable (front side) and damper (Refer to GROUP 42A – Hood .)
- Front impact sensor (Refer to GROUP 52B – Front impact sensor .)

Headlamp support panel upper removal steps (Continued)

1. Headlamp support panel upper
- Headlamp assembly (Refer to GROUP 54A – Headlamp .)
2. Headlamp support bracket

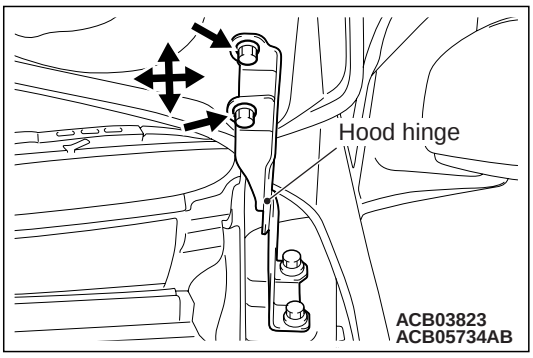
Attached sheet 3 (1/6)

HOOD

ON-VEHICLE SERVICE

ADJUSTMENT OF CLEARANCE AROUND HOOD

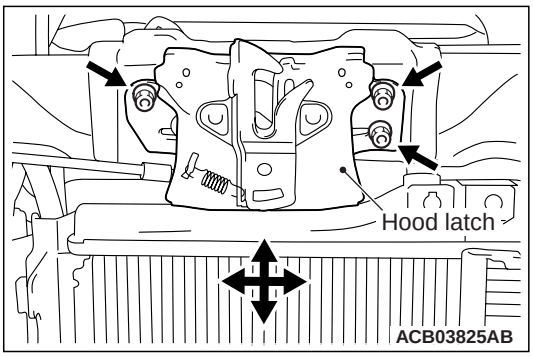
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1. Loosen the hood hinge mounting bolts but do not remove them. Move the hood hinge back/forth and left/right to align the clearance around hood.
2. After the adjustment, tighten the hood hinge mounting bolts to ~~9.5 ± 3.5 N·m~~ <Incorrect> 23 ± 6 N·m <Correct>.

ADJUSTMENT OF HOOD LEVEL AND HOOD STRIKER ENGAGEMENT

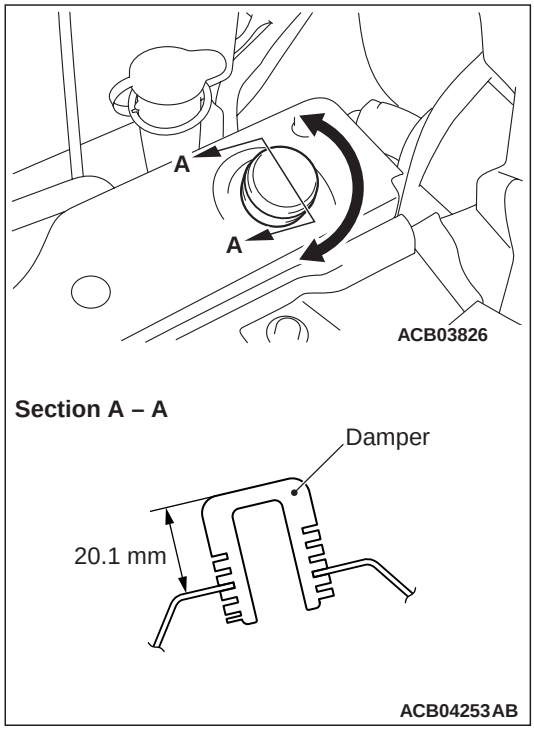
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1. Loosen the hood latch mounting bolts but do not remove them. Move the hood latch up/down and left/right to align the hood level and adjust the hood striker engagement.
2. After the adjustment, tighten the hood latch mounting bolts to 9.0 ± 1.0 N·m.

ADJUSTMENT OF HOOD HEIGHT

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Turn the damper to the dimension shown in the figure to adjust the hood height. If the hood height is still not even, turn the damper again until the height is even. The damper height is altered by roughly 4 mm when the damper is rotated once.

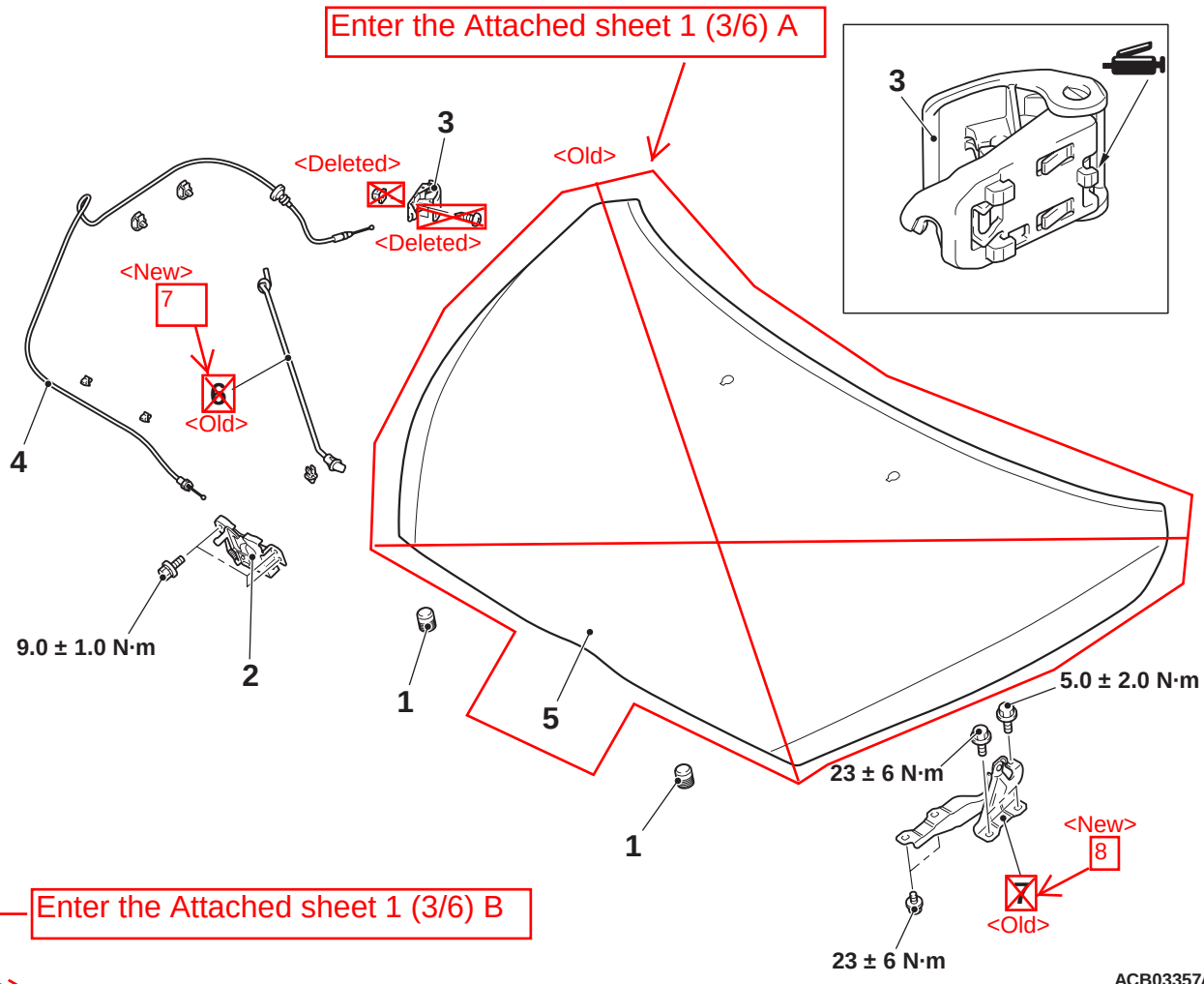
NOTE: If a rattling noise is heard due to the vibration of the hood when the vehicle is being driven, adjust the damper height until the damper is seated on the hood.

HOOD

REMOVAL AND INSTALLATION

M1421001602329

Post-installation operation
- Clearance check around the hood (Refer to .)
- Adjustment of the hood level and hood striker engagement (Refer to .)
- Adjustment of hood height (Refer to .)



Enter the Attached sheet 1 (3/6) B

Damper removal
1. Damper

Hood latch and hood lock release cable removal steps
2. Hood latch
3. Hood lock release handle
- Cowl side trim <driver's side> (Refer to GROUP 52A – Interior Trim .)
- Front splash shield <driver's side> (Refer to .)

4. Hood lock release cable

<Added> <<A>>

<New> 5. Hood insulator 6. Hood

Hood removal steps
- Windshield washer hose and washer nozzles (Refer to GROUP 51 – Windshield Washer .)

<Old> 5. ~~Hood~~

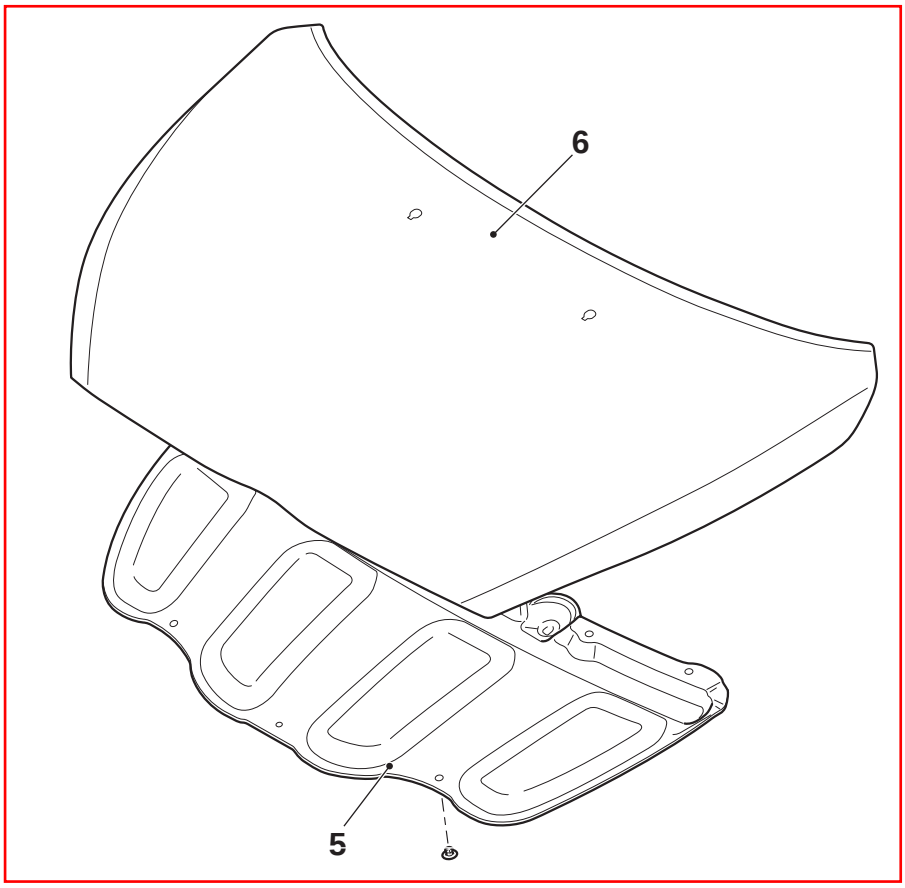
<New> 7. <Old> 6. ~~Hood support rod~~

Hood hinge removal

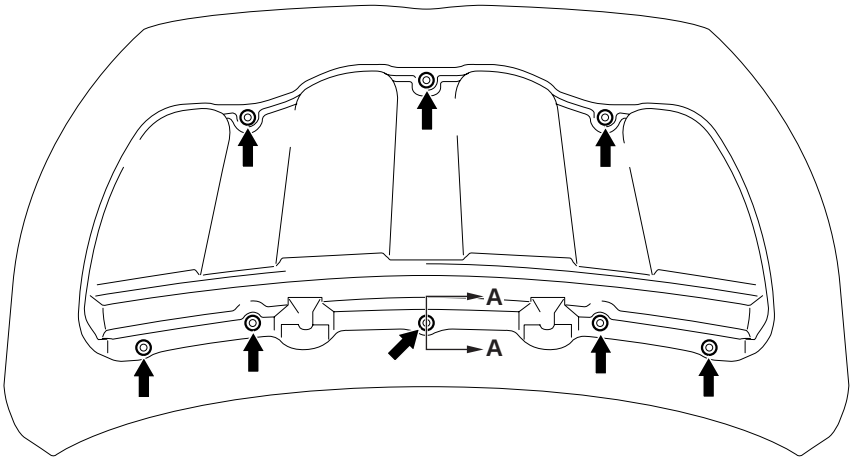
<New> 8. <Old> 7. ~~Hood hinge~~

Enter the Attached sheet 1 (3/6) C

<New>
A



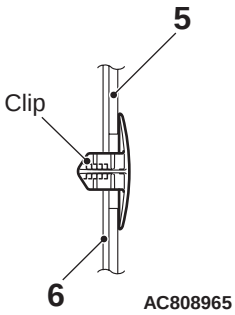
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B



NOTE
: Clip positions

ACC01845

Section A – A



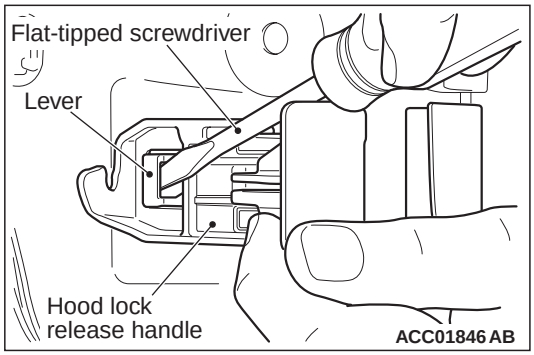
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C

REMOVAL SERVICE POINT

<<A>> HOOD LOCK RELEASE HANDLE REMOVAL



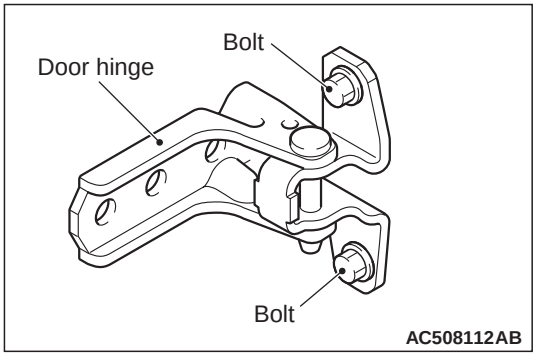
ACC01846 AB

1. Insert a flat-tipped screwdriver as shown.
2. Pull up the lever.
3. Slide the hood lock release handle out to remove.

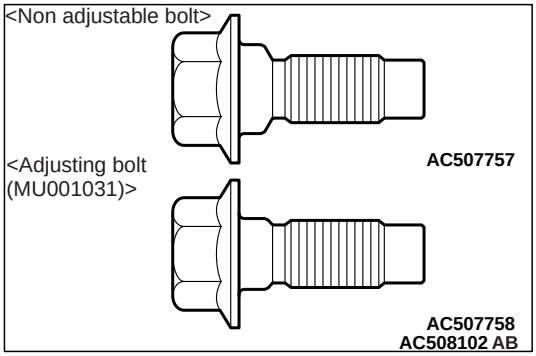
Attached sheet 3 (4/6)

(3) Remove the centre pillar trim <Rear door> (Refer to GROUP 52A – Interior Trim).
(4) Use the door hinge adjusting wrench (Special tool: MB991163) to loosen the body-side door hinge mounting bolts (mounting nuts for the door upper hinge of the rear door).
(5) Move the door to adjust the clearance between the door and the body is even.

2. When the door is not flush with the body surface:



(1) Loosen the door-side hinge mounting bolts.
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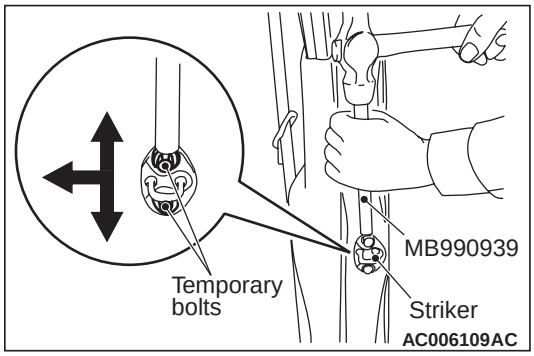
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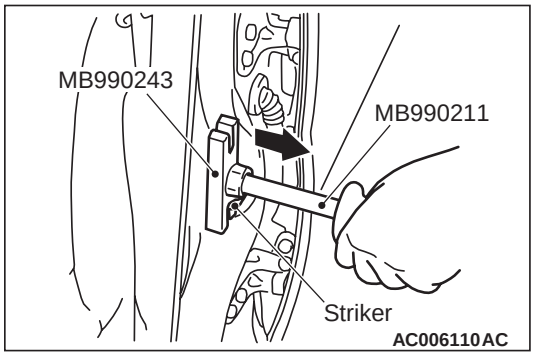
(4) Move the door to adjust so that the door is flush with the body surface.
(5) Tighten the door-side door hinge mounting bolt to the specified torque.

Tightening torque: 27 ± 6 N·m

3. When the door is stiff to close and open:



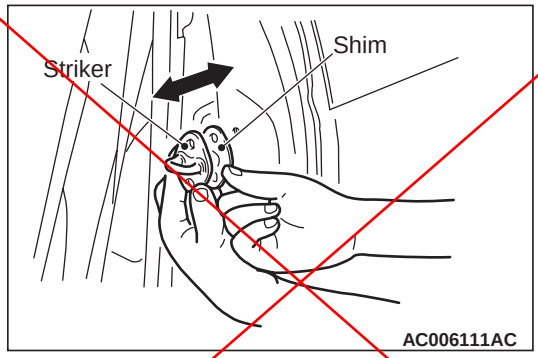
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- Body puller (MB990243)

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(3) Adjustment using shims: (forward and rearward)
Increase or decrease the number of shims so that the striker engages with the door latch properly.

ACTUATOR OPERATION CHECK <FRONT RH AND REAR RH>

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ACTUATOR OPERATION CHECK <FRONT LH AND REAR LH>

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ACTUATOR SWITCH CHECK <FRONT RH>

Claw position	Door inside handle lock knob position	Tester connection	Specified condition
Full-latch	Lock	7 – 9	No continuity
Full-latch	Unlock	7 – 9	Continuity exists (2 Ω or less)

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ACTUATOR SWITCH CHECK <FRONT LH: VEHICLES WITH KOS>

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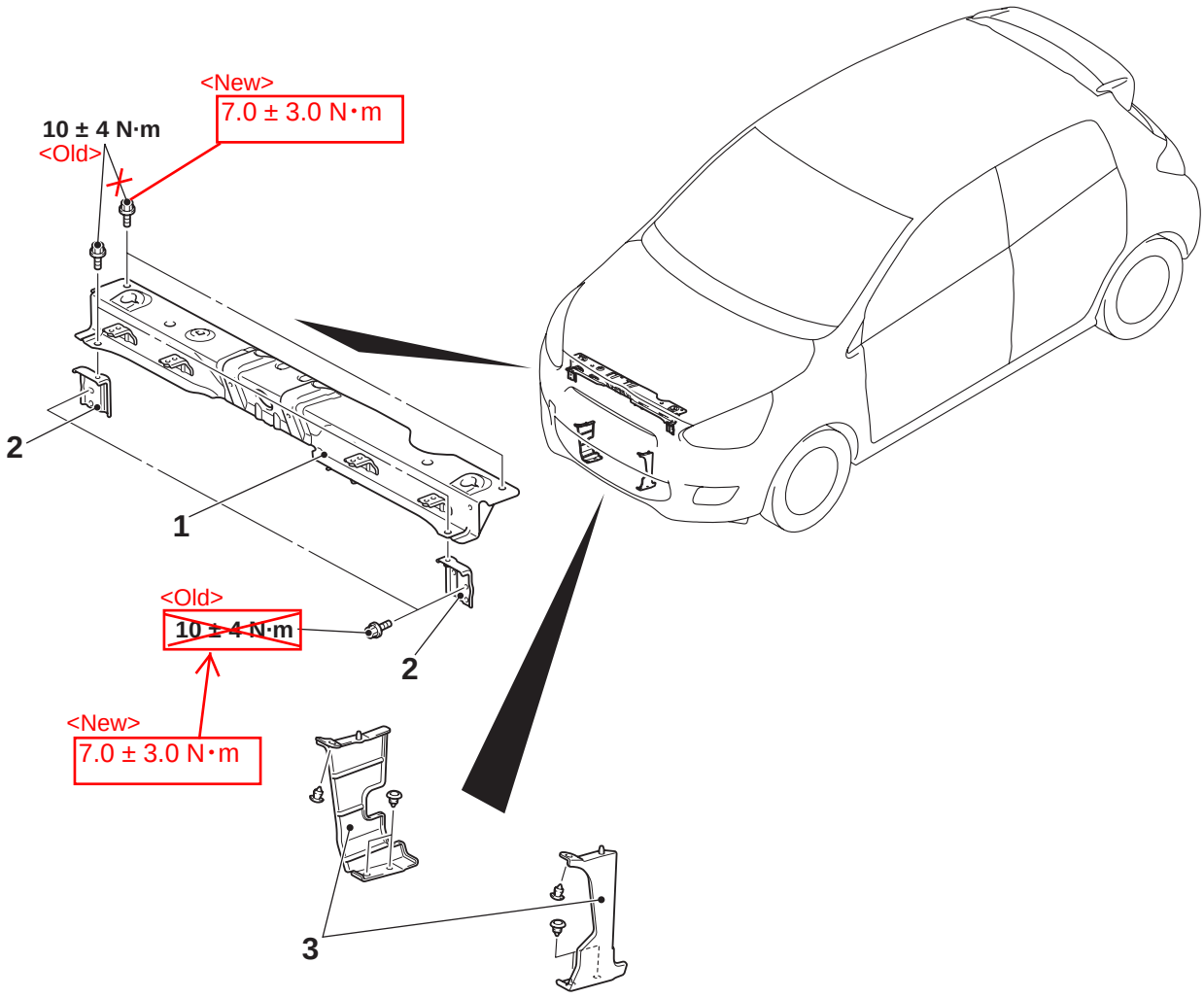
LOOSE PANEL

REMOVAL AND INSTALLATION

M1421003101372

⚠ CAUTION

- **Disconnect the battery (–) terminal and wait for 60 seconds or more before starting work. Insulate the disconnected (–) terminal by wrapping a tape.**
- **Handle the front impact sensor with sufficient caution, and do not drop the sensor or allow contact with water, oil, or others. If a dent, crack, deformation and others are discovered, replace it with a new one.**



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Headlamp support panel upper removal steps

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- Hood latch, hood lock release cable (front side) and damper (Refer to GROUP 42A – Hood .)
- Front impact sensor (Refer to GROUP 52B – Front impact sensor .)

Headlamp support panel upper removal steps (Continued)

1. Headlamp support panel upper
   - Headlamp assembly (Refer to GROUP 54A – Headlamp .)
2. Headlamp support bracket