

2007 Mazda MX-5 Miata Sport

2007 ACCESSORIES & BODY, CAB Body Panels - MX-5 Miata

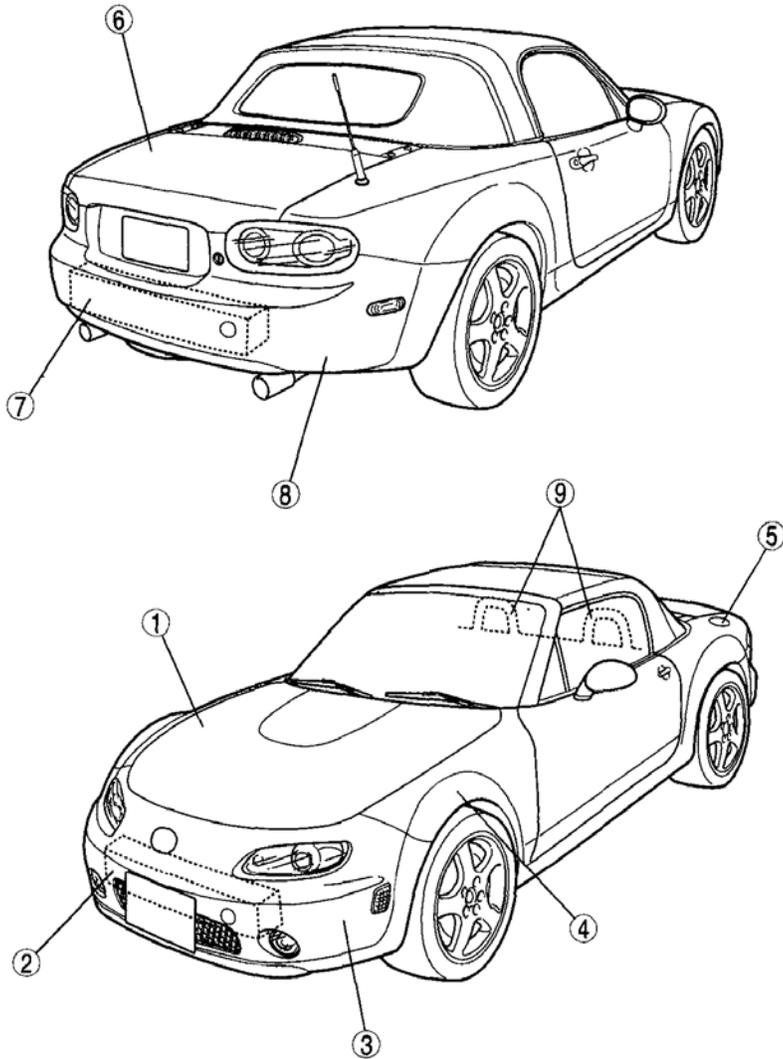
2007 ACCESSORIES & BODY, CAB

Body Panels - MX-5 Miata

BODY PANELS LOCATION INDEX

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1	Hood
3	Front bumper
4	Front fender panel
5	Fuel-filter lid
6	Trunk lid
7	Rear bumper reinforcement
8	Rear bumper
9	Seat Back Crossmember Assembly

E5U910ZW1001

Fig. 1: Identifying Location Of Body Panel Components

Courtesy of MAZDA MOTORS CORP.

FUEL-FILLER LID REMOVAL/INSTALLATION

1. Remove the bolts.
2. Remove the fuel-filler lid.
3. Install in the reverse order of removal.
4. Adjust the fuel-filler lid. (See **FUEL-FILLER LID ADJUSTMENT** .)

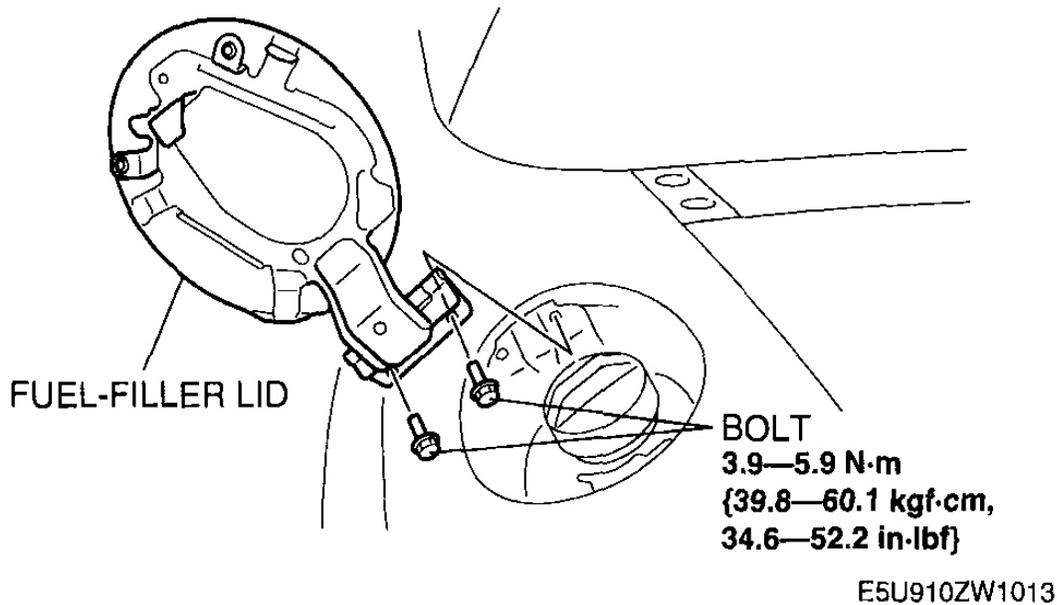


Fig. 2: Removing Fuel-Filler Lid (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

FUEL-FILLER LID ADJUSTMENT

1. Measure the gap and height difference between the fuel-filler lid and the body.
2. Loosen the fuel-filler lid installation bolts, and adjust the fuel-filler lid.

Standard clearance

- a. 1.7-3.7 mm {0.07-0.14 in}
- b. -0.5 -1.5 mm {-0.02-0.05 in}
- c. -1.0-1.0 mm {0.04-0.03 in}
- d. -0.75-1.25 mm {-0.03-0.04 in}

3. Tighten the bolts.

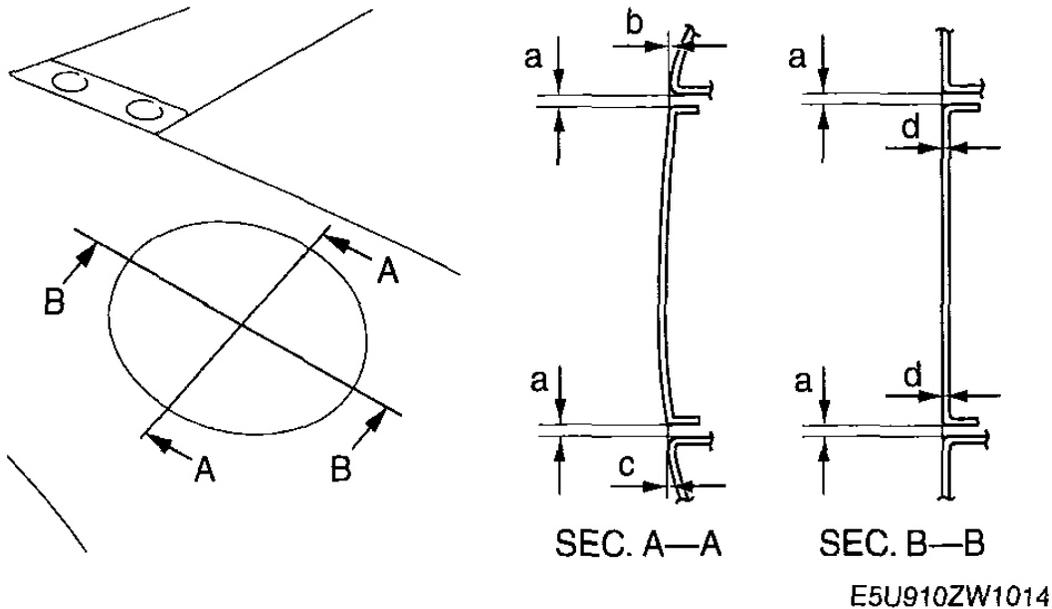


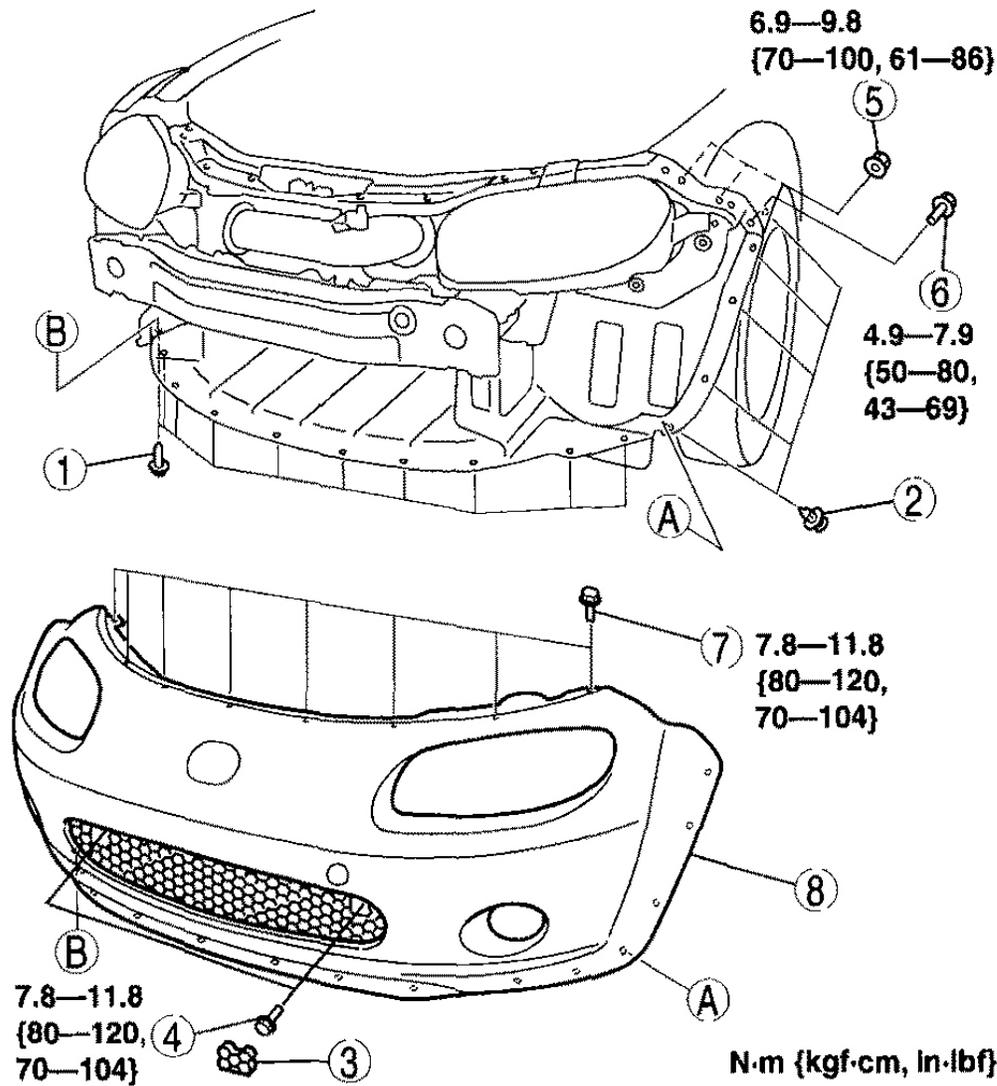
Fig. 3: Identifying Gap & Height Difference Between Fuel-Filler Lid & Body
 Courtesy of MAZDA MOTORS CORP.

FRONT BUMPER REMOVAL/INSTALLATION

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Disconnect the front fog light connectors for vehicles with front fog lights.
3. Disconnect the side marker light connectors.
4. Remove in the order indicated in **Fig. 4** .

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1	Screw A
2	Fastener A
3	Cover
4	Bolt A
5	Nut
6	Bolt B
7	Bolt C
8	Front bumper

Fig. 4: Removing/Installing Front Bumper (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

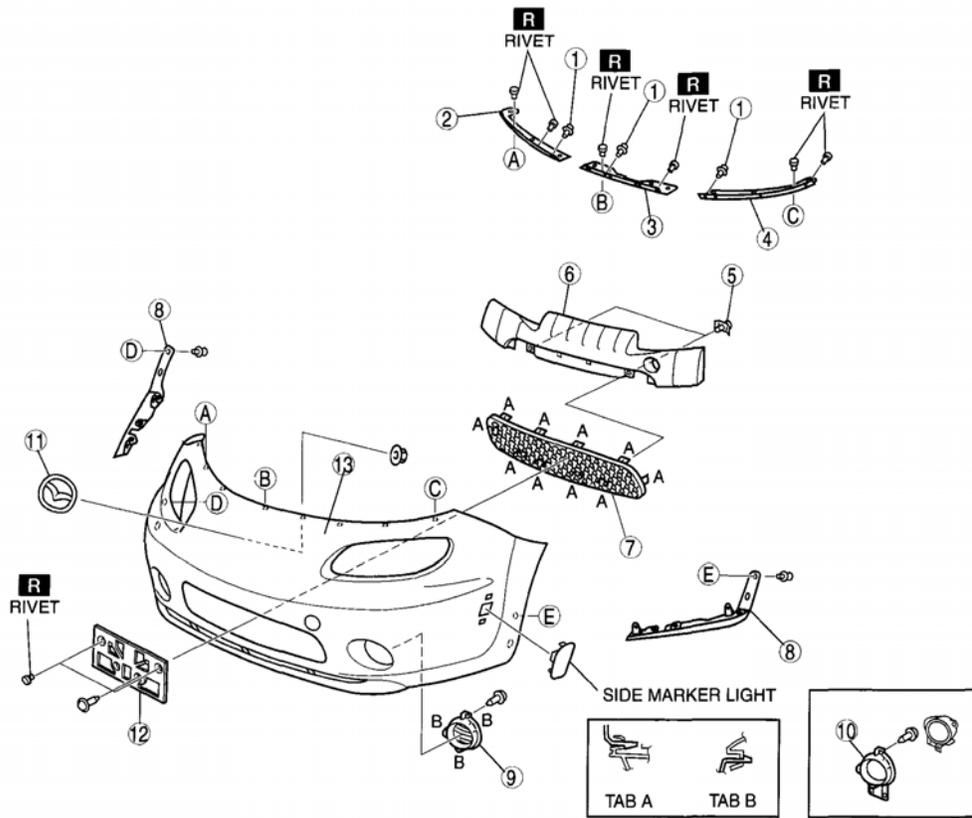
5. Install in the reverse order of removal.
6. Adjust the front fog light aiming for vehicles with the front fog lights. (See **FRONT FOG LIGHT AIMING** .)

FRONT BUMPER DISASSEMBLY/ASSEMBLY

1. To disassemble the front bumper, remove the following parts:
 1. Front fog lights (Vehicles with the front fog lights) (See **FRONT FOG LIGHT REMOVAL/INSTALLATION** .)
 2. Front side marker light. (See **FRONT SIDE MARKER LIGHT REMOVAL/INSTALLATION** .)
2. Disassemble in the order indicated in **Fig. 5** .

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1	Fastener
2	Set plate RH
3	Set plate CTR
4	Set plate LH
5	Clip
6	Energy absorbing form
7	Front bumper mesh

8	Air dam skirt
9	Lamp hole cover (Vehicles without the front fog lights)
10	Lamp hole cover (Vehicles with the front fog lights)
11	Ornament
12	License plate holder
13	Front bumper fascia

Fig. 5: Disassembling/Assembling Front Bumper
 Courtesy of MAZDA MOTORS CORP.

3. Assemble in the reverse order of disassembly.

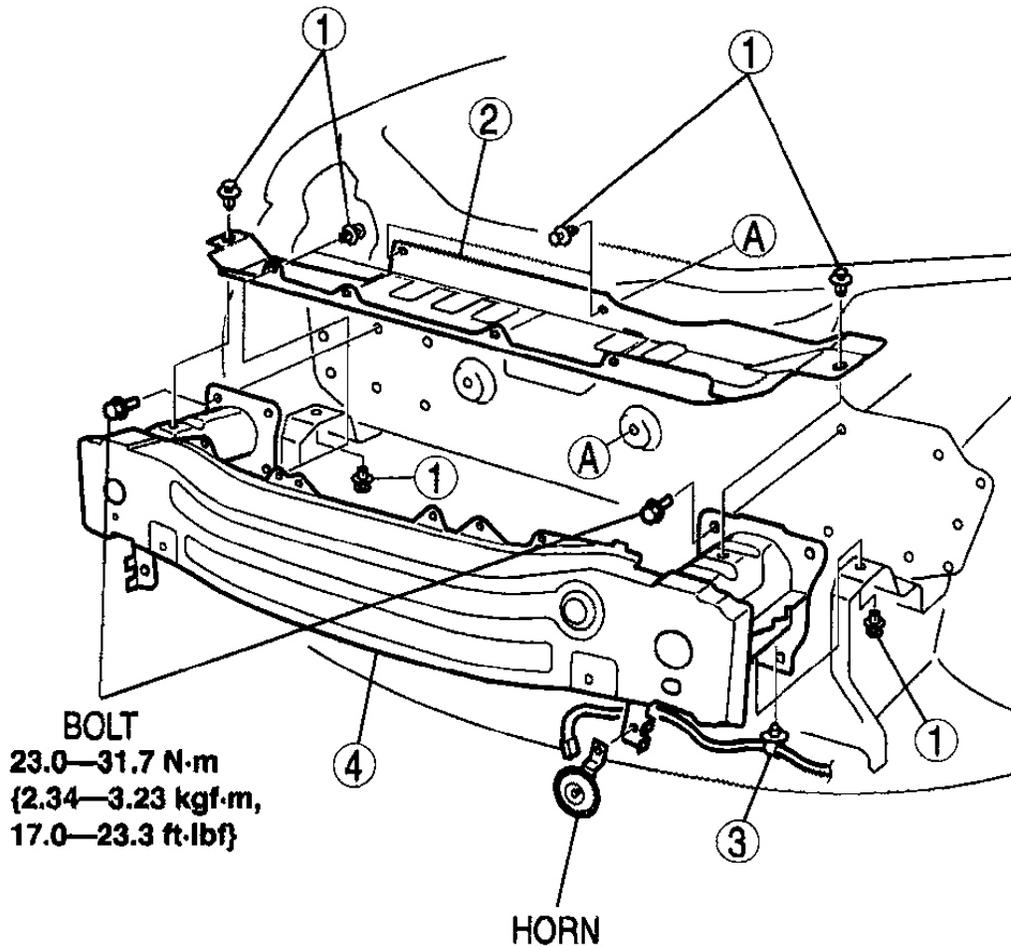
FRONT BUMPER REINFORCEMENT REMOVAL/INSTALLATION

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Remove the front bumper. (See **FRONT BUMPER REMOVAL/INSTALLATION** .)
3. Remove the front combination light. (See **FRONT COMBINATION LIGHT REMOVAL/INSTALLATION** .)
4. Remove the fresh air duct. (See **INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [LF]** .)
5. Remove the horn. (See **HORN REMOVAL/INSTALLATION** .)

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6. Remove in the order indicated in **Fig. 6**.



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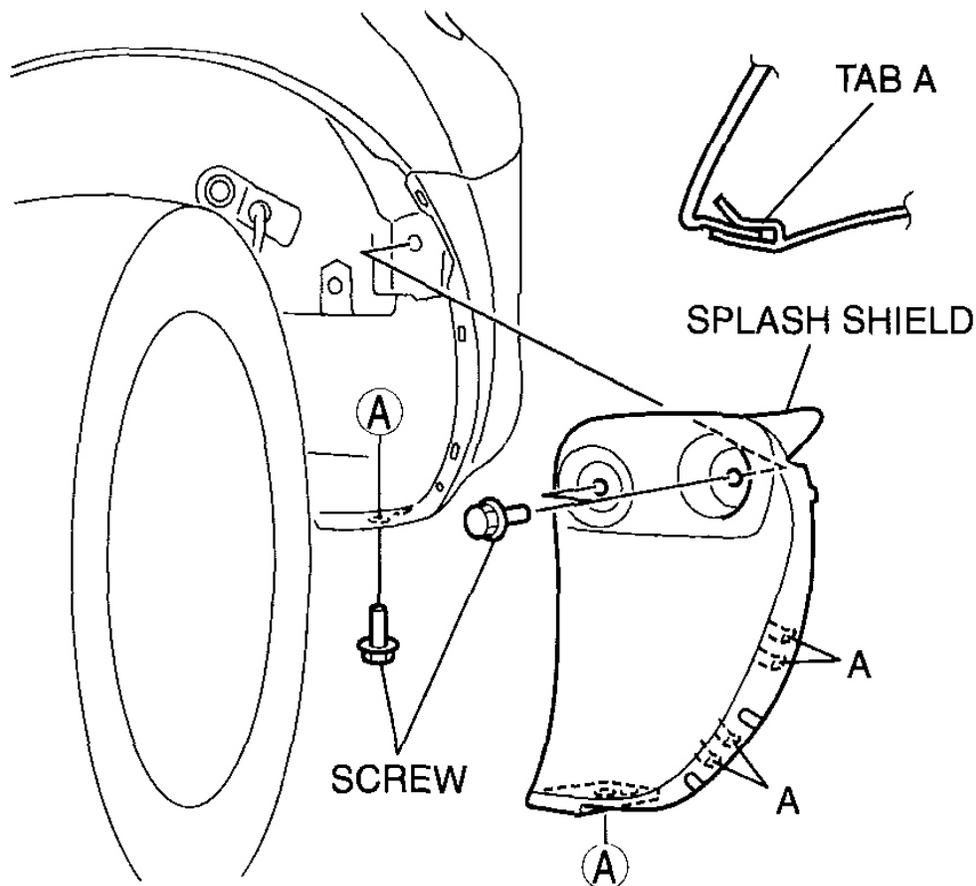
1	Clip
2	Shroud seal plate
3	Harness clip
4	Front bumper reinforcement

Fig. 6: Removing/Installing Front Bumper Reinforcement (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

7. Install in the reverse order of removal.

REAR BUMPER REMOVAL/INSTALLATION

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Remove the trunk end trim. (See **TRUNK END TRIM REMOVAL/INSTALLATION** .)
3. Remove the partition board. (See **PARTITION BOARD REMOVAL/INSTALLATION** .)
4. Remove the trunk side trim. (See **TRUNK SIDE TRIM REMOVAL/INSTALLATION** .)
5. Remove the rear combination lights. (See **REAR COMBINATION LIGHT REMOVAL/INSTALLATION** .)
6. Remove the screws.
7. Splash shield, detach tabs A, and then remove the splash shield.



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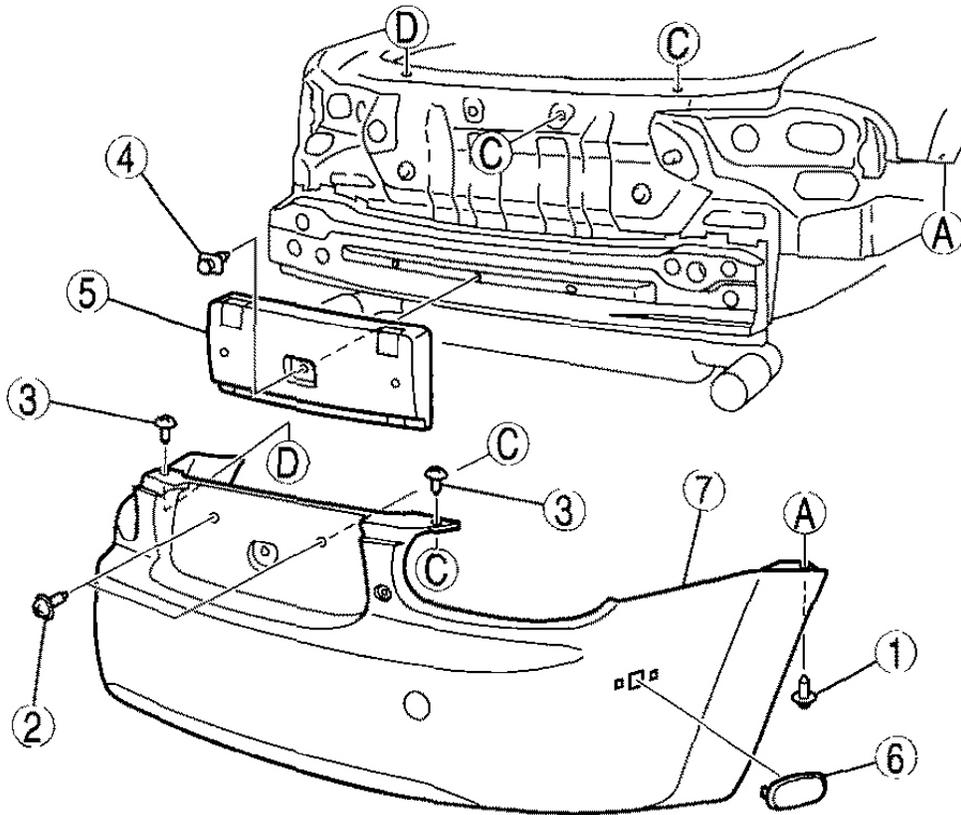
Fig. 7: Removing Splash Shield

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Courtesy of MAZDA MOTORS CORP.

8. Remove in the order indicated in the table.



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1	Screw A
2	Screw B
3	Screw C
4	Fastener A
5	Fastener B
6	Energy absorbing form
7	Reflector
8	Rear bumper

Fig. 8: Removing Rear Bumper
Courtesy of MAZDA MOTORS CORP.

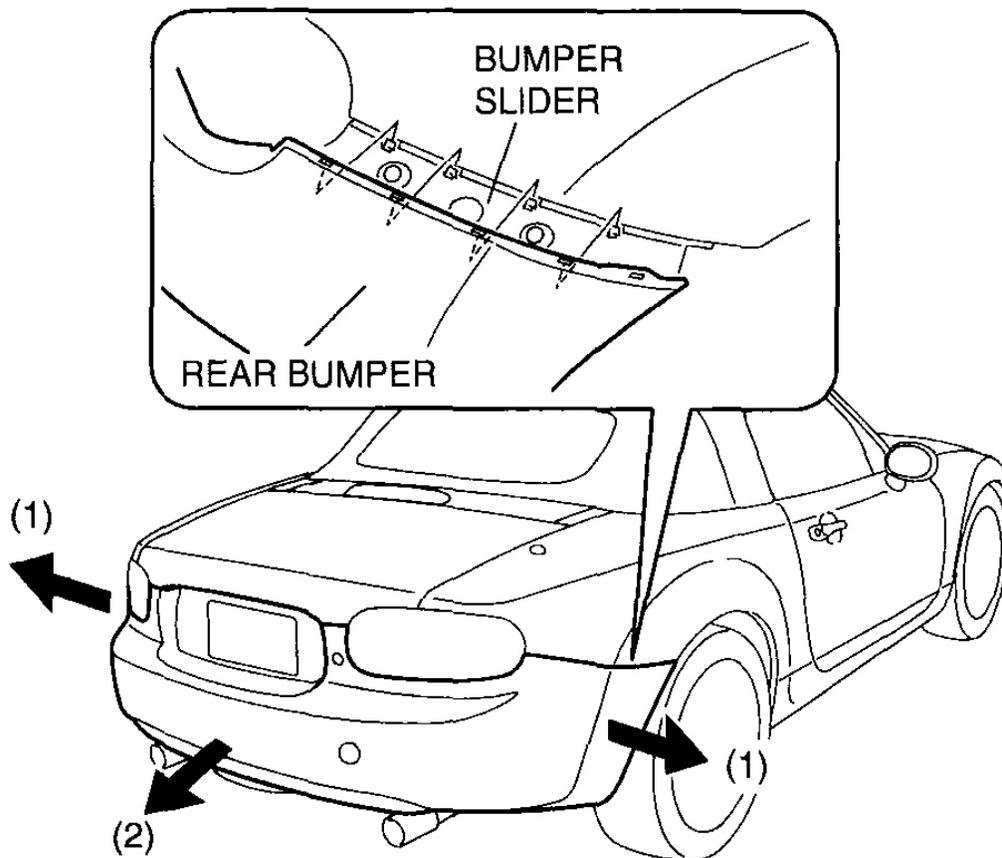
9. Install in the reverse order of removal.

REAR BUMPER REMOVAL NOTE

1. Pull the rear bumper ends (wheel arch) outward to detach from the bumper slider.

CAUTION:

- When detaching the rear bumper from the bumper slider, the rear bumper could fall and be damaged. Secure the rear bumper so that it does not fall.



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Fig. 9: Pulling Rear Bumper Ends (Wheel Arch) Outward From Bumper Slider
Courtesy of MAZDA MOTORS CORP.

REAR BUMPER INSTALLATION NOTE

1. Spread the rear bumper ends (wheel arches) apart.
2. Attach the rear bumper to the body.
3. Press the rear bumper connecting area into the body to engage with the bumper slider.

REFLECTOR REMOVAL NOTE

1. Lift the reflector up in the direction of the arrow, then unhook it from rear bumper.

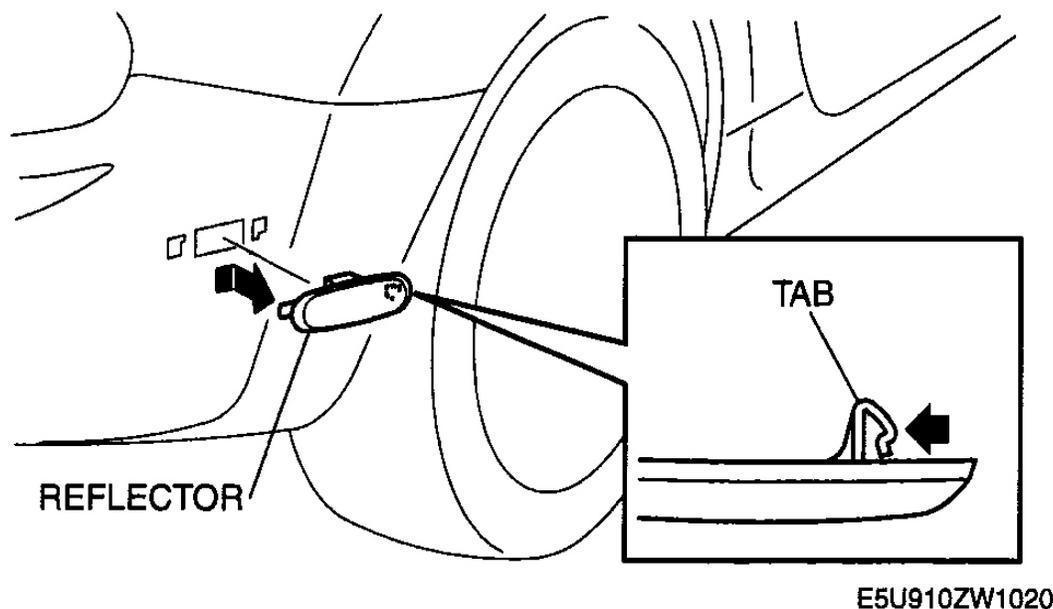
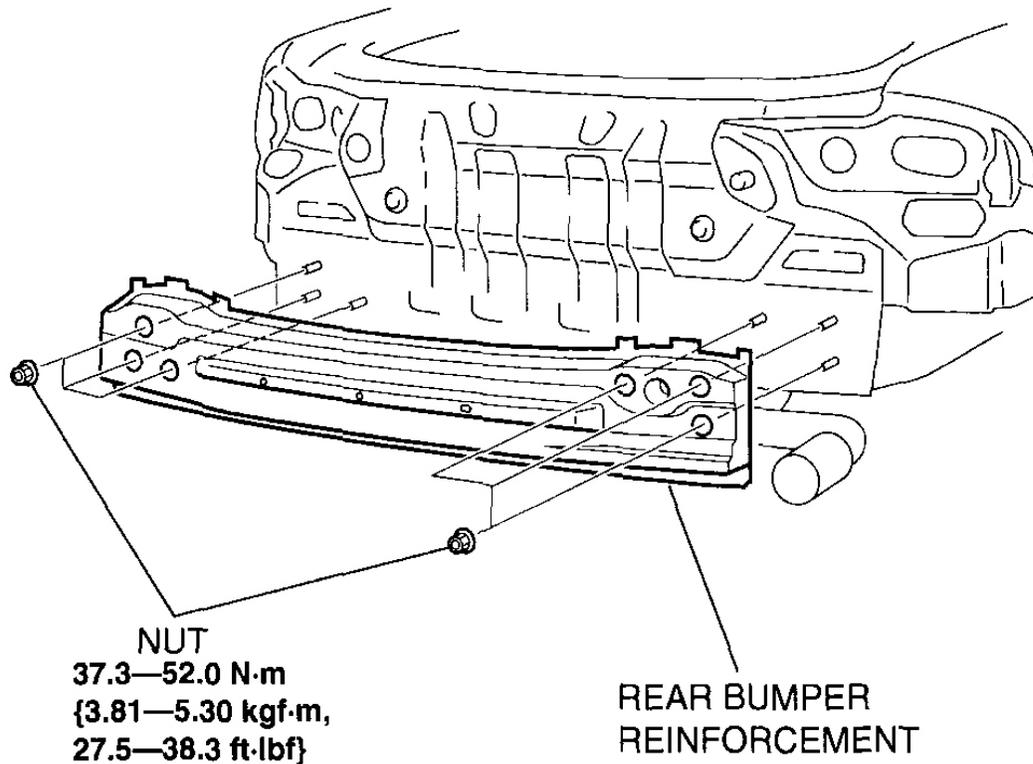


Fig. 10: Identifying Reflector
Courtesy of MAZDA MOTORS CORP.

REAR BUMPER REINFORCEMENT REMOVAL/INSTALLATION

1. Remove the following parts:
 1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
 2. Trunk end trim (See **TRUNK END TRIM REMOVAL/INSTALLATION** .)
 3. Partition board. (See **PARTITION BOARD REMOVAL/INSTALLATION** .)
 4. Trunk side trim. (See **TRUNK SIDE TRIM REMOVAL/INSTALLATION** .)
 5. Rear combination lights. (See **REAR COMBINATION LIGHT REMOVAL/INSTALLATION** .)
 6. Rear bumper (See **REAR BUMPER REMOVAL/INSTALLATION** .)

2. Remove the nuts, then remove the rear bumper reinforcement.
3. Install in the reverse order of removal.



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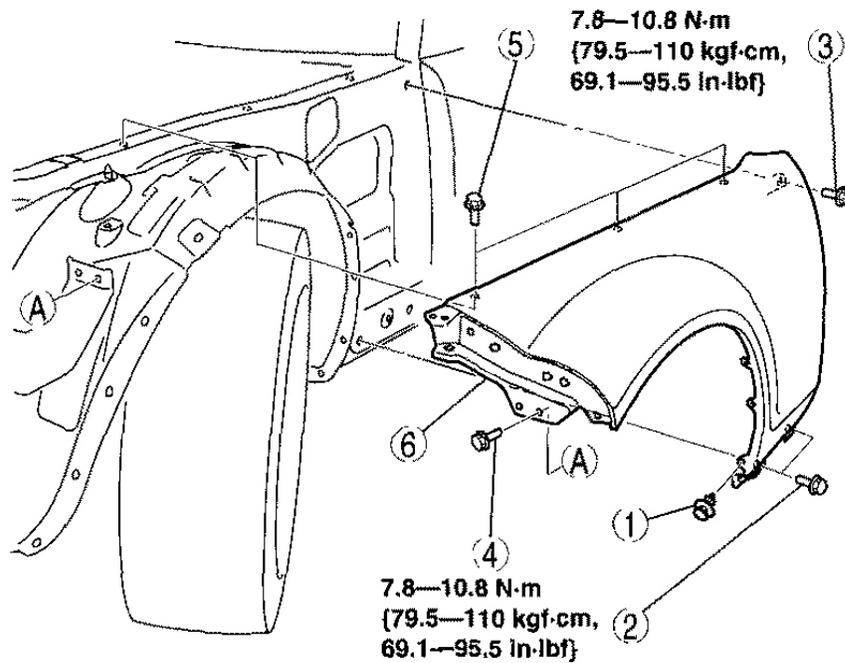
Fig. 11: Removing Rear Bumper Reinforcement (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

FRONT FENDER PANEL REMOVAL/INSTALLATION

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Remove the front bumper. (See **FRONT BUMPER REMOVAL/INSTALLATION** .)
3. Remove the front combination lights. (See **FRONT COMBINATION LIGHT REMOVAL/INSTALLATION** .)
4. Remove the side step molding (See **SIDE STEP MOLDING REMOVAL** .) (See **SIDE STEP MOLDING INSTALLATION** .)
5. Remove in the order indicated in **Fig. 12** .

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1	Fastener
2	Bolt A
3	Bolt B
4	Bolt C
5	Bolt D
6	Front fender panel

Fig. 12: Removing/Installing Front Fender Panel (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

6. Install in the reverse order of removal.

HOOD REMOVAL/INSTALLATION

WARNING: • Removing the hood without proper support can be dangerous. The

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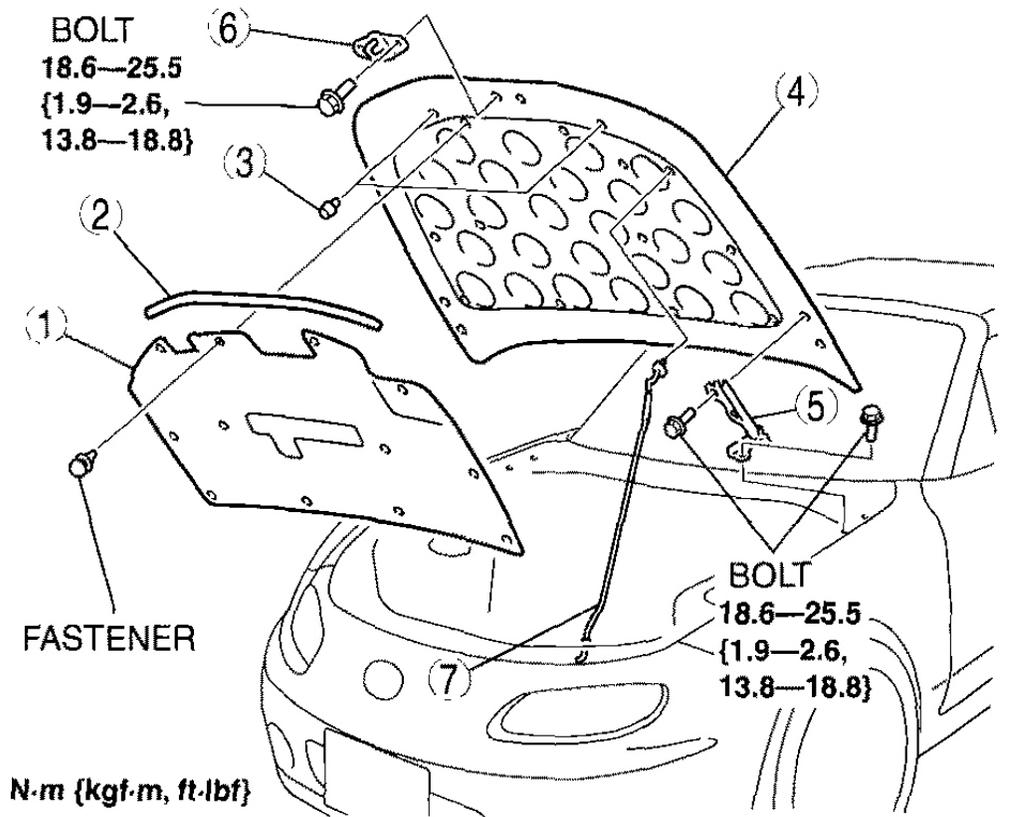
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hood may fall and injure you. Always perform the following procedure with at least another person.

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. To remove the hood hinge, remove the following parts:
 1. Front bumper (See **FRONT BUMPER REMOVAL/INSTALLATION** .)
 2. Front combination lights (See **FRONT COMBINATION LIGHT REMOVAL/INSTALLATION** .)
 3. Side step molding (See **SIDE STEP MOLDING REMOVAL** .) (See **SIDE STEP MOLDING INSTALLATION** .)
 4. Front fender panel (See **FRONT FENDER PANEL REMOVAL/INSTALLATION** .)
3. Remove in the order indicated in **Fig. 13** .

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1	Hood insulator
2	Shroud seal weatherstrip
3	Cushion rubber
4	Hood
5	Hood hinge
6	Hood striker
7	Hood stay

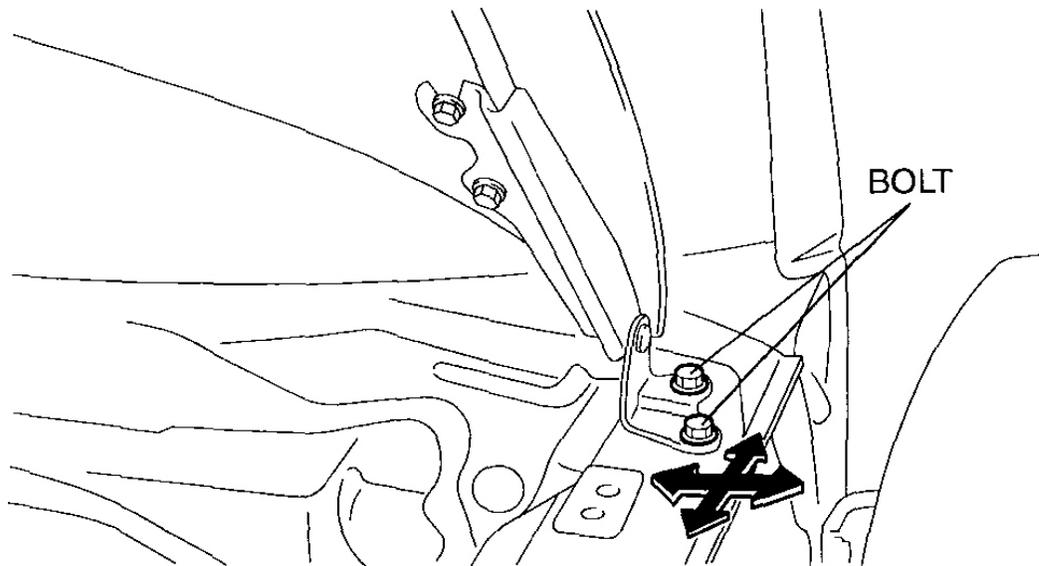
Fig. 13: Removing/Installing Hood (With Torque Specifications)
 Courtesy of MAZDA MOTORS CORP.

4. Install in the reverse order of removal.
5. Adjust the hood. (See **HOOD ADJUSTMENT** .)

HOOD ADJUSTMENT

GAP ADJUSTMENT

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Remove the following parts:
 1. Front bumper (See **FRONT BUMPER REMOVAL/INSTALLATION** .)
 2. Front combination lights (See **FRONT COMBINATION LIGHT REMOVAL/INSTALLATION** .)
 3. Side step molding (See **SIDE STEP MOLDING REMOVAL** .) (See **SIDE STEP MOLDING INSTALLATION** .)
 4. Front fender panel (See **FRONT FENDER PANEL REMOVAL/INSTALLATION** .)
3. Loosen the hood hinge installation bolts and adjust the hood.
4. Tighten the bolts.



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Fig. 14: Adjusting Hood Hinge
Courtesy of MAZDA MOTORS CORP.

5. Verify that the gap between the hood and the body is within the specification.

Standard clearance

- a. 3.5-6.5 mm {0.14-0.25 in}

b. 3.0-5.0 mm {0.12-0.19 in}

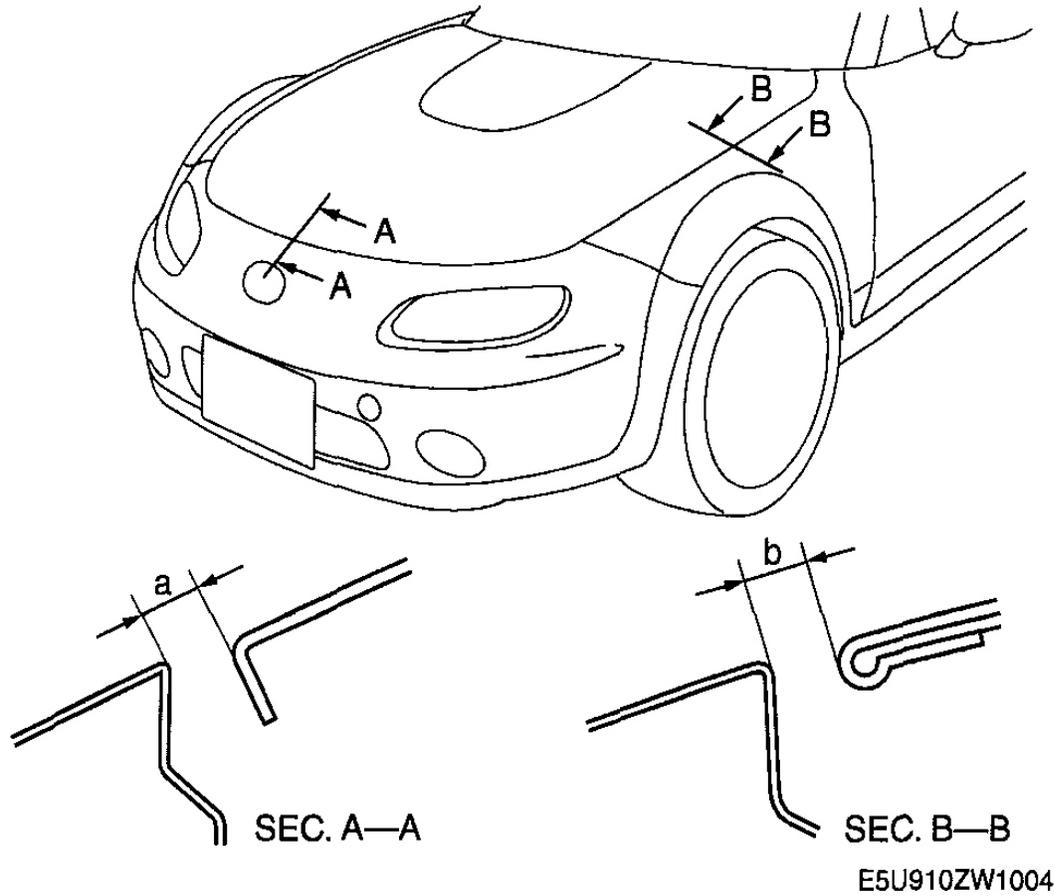


Fig. 15: Identifying Gap Between Hood & Body
Courtesy of MAZDA MOTORS CORP.

HEIGHT DIFFERENCE ADJUSTMENT

1. Turn the stop rubber to adjust the height of the hood.

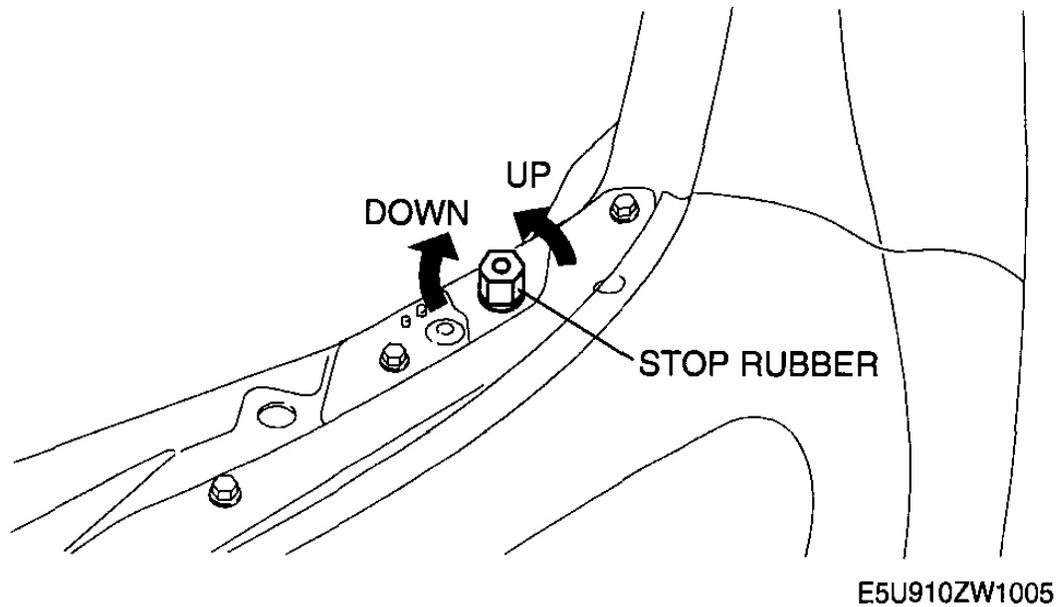


Fig. 16: Turning Stop Rubber To Adjust Height Of Hood
Courtesy of MAZDA MOTORS CORP.

2. Verify that the height difference between the hood and the body is within the specification.

Standard clearance

- a. -1.0-2.0 mm {-0.04-0.07 in}
- b. -1.5-1.5 mm {-0.06-0.05 in}
- c. -0.5-1.5 mm {-0.02-0.05 in}

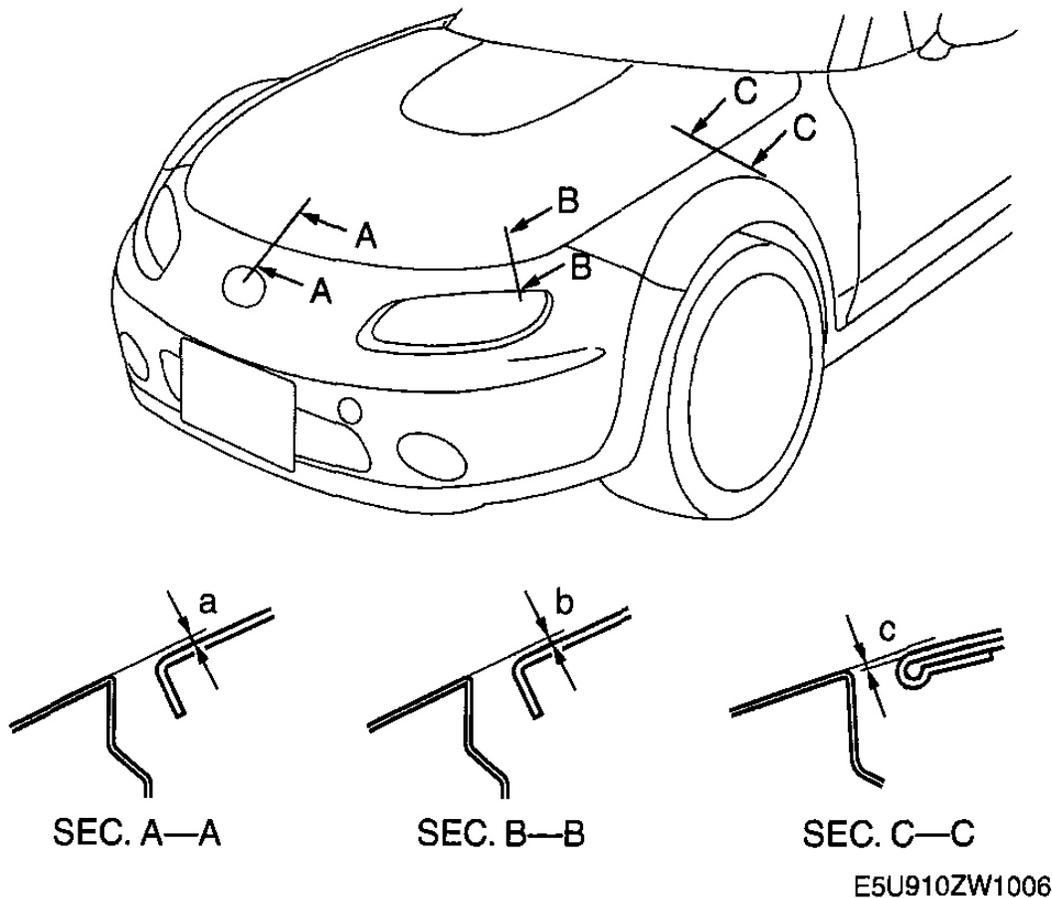


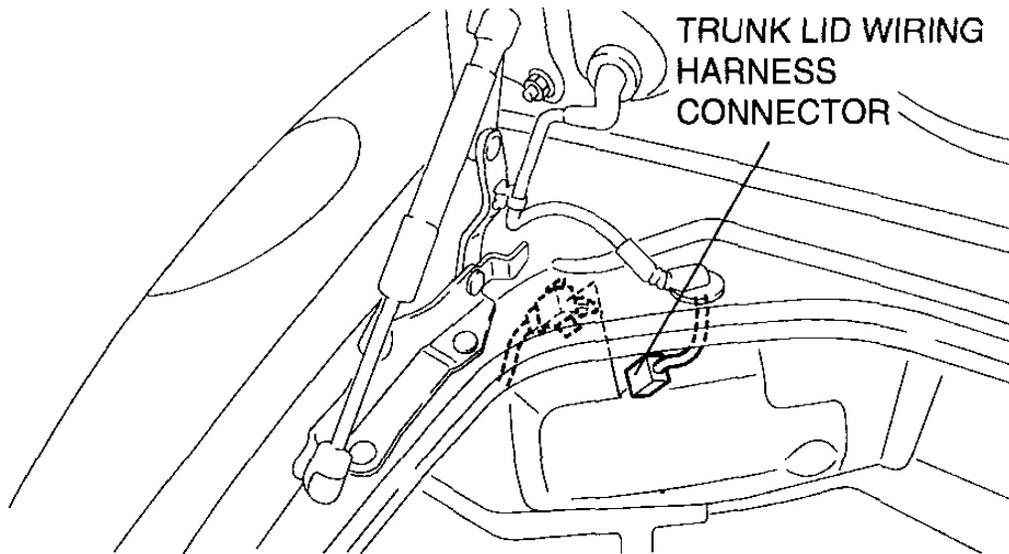
Fig. 17: Identifying Height Difference Between Hood & Body
Courtesy of MAZDA MOTORS CORP.

TRUNK LID REMOVAL/INSTALLATION

WARNING:

- Removing the stay damper without supporting the trunk lid can be dangerous. The trunk lid may fall and injure you. Be sure to open the trunk lid completely and support it securely before removing the stay damper.

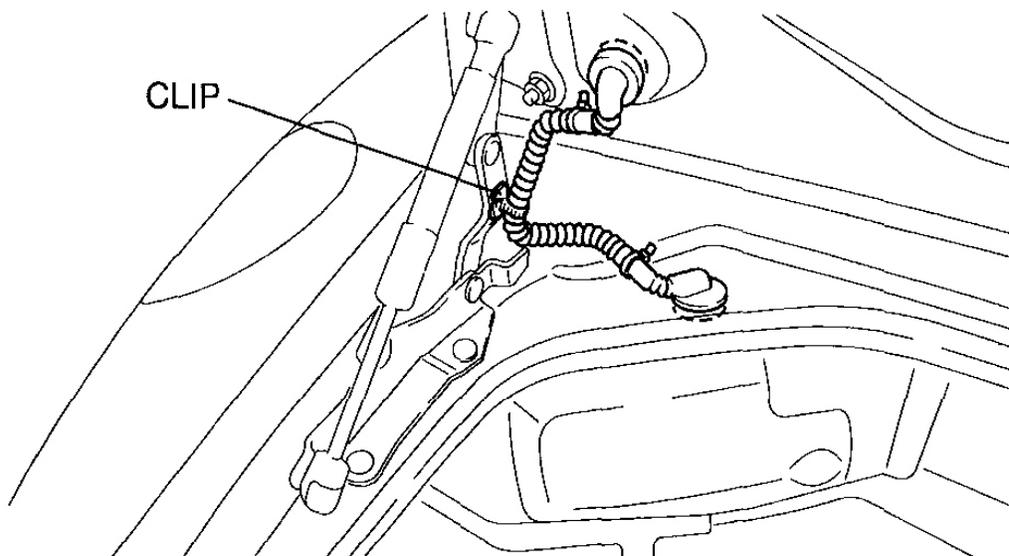
1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Disconnect the trunk lid wiring harness connector, then take the trunk lid harness out from the vehicle.



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Fig. 18: Disconnecting Trunk Lid Wiring Harness Connector
Courtesy of MAZDA MOTORS CORP.

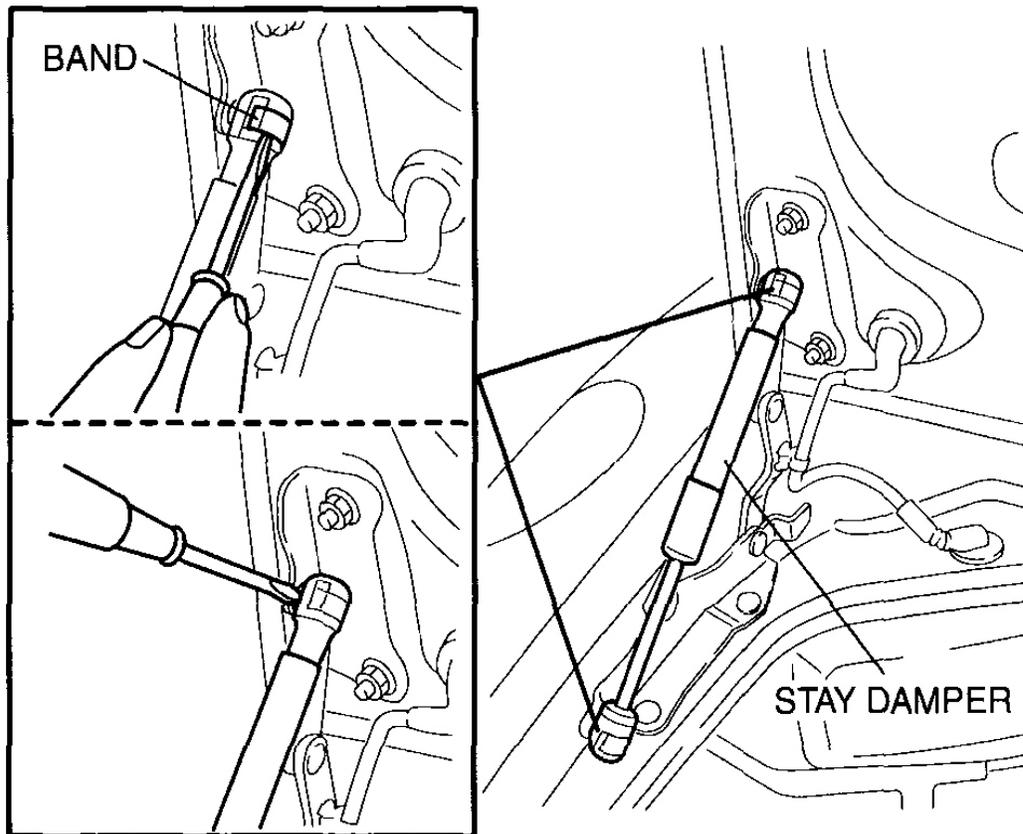
3. Remove the clips that secure the trunk lid wiring harness.



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Fig. 19: Removing Trunk Lid Wiring Harness Clips
Courtesy of MAZDA MOTORS CORP.

4. Pry off the stay damper band using a flathead screwdriver.
5. Pry out the connecting part of the stay damper and the hinge with a flathead screwdriver to disconnect them, then remove the stay damper.



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Fig. 20: Prying Out Connecting Part Of Stay Damper & Hinge With Flathead Screwdriver
Courtesy of MAZDA MOTORS CORP.

6. Remove nuts A, then remove the trunk lid.
7. Remove nuts B, then remove the trunk lid hinge.
8. Install in the reverse order of removal.
9. Adjust the trunk lid. (See **TRUNK LID ADJUSTMENT**)

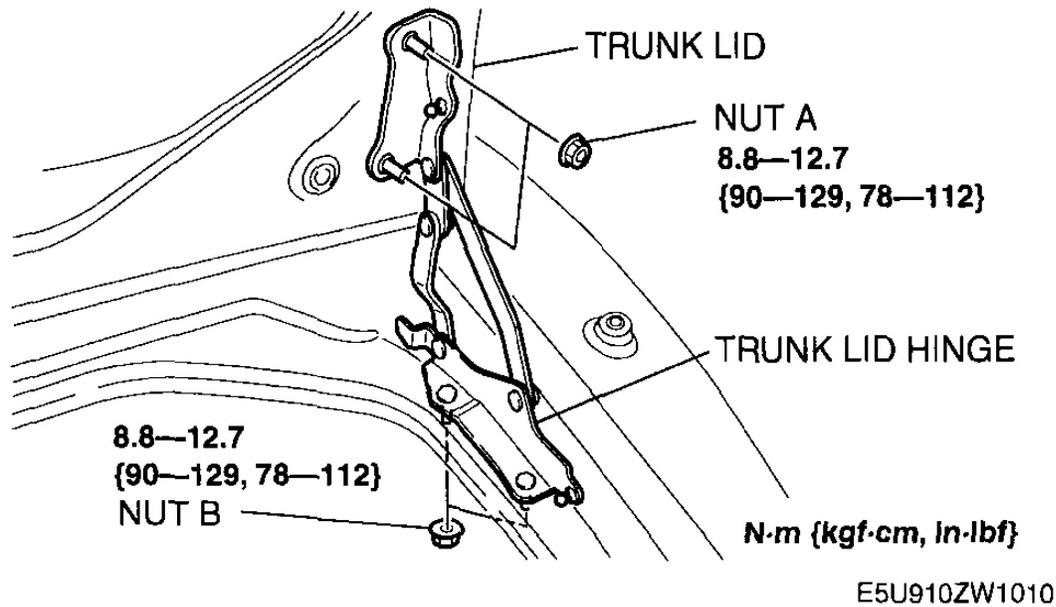


Fig. 21: Removing Trunk Lid Hinge (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

TRUNK LID ADJUSTMENT

1. Measure the gap and height difference between the trunk lid and the body.
2. Loosen the trunk lid hinge installation nuts or the trunk lid lock striker installation screws, and adjust the trunk lid.

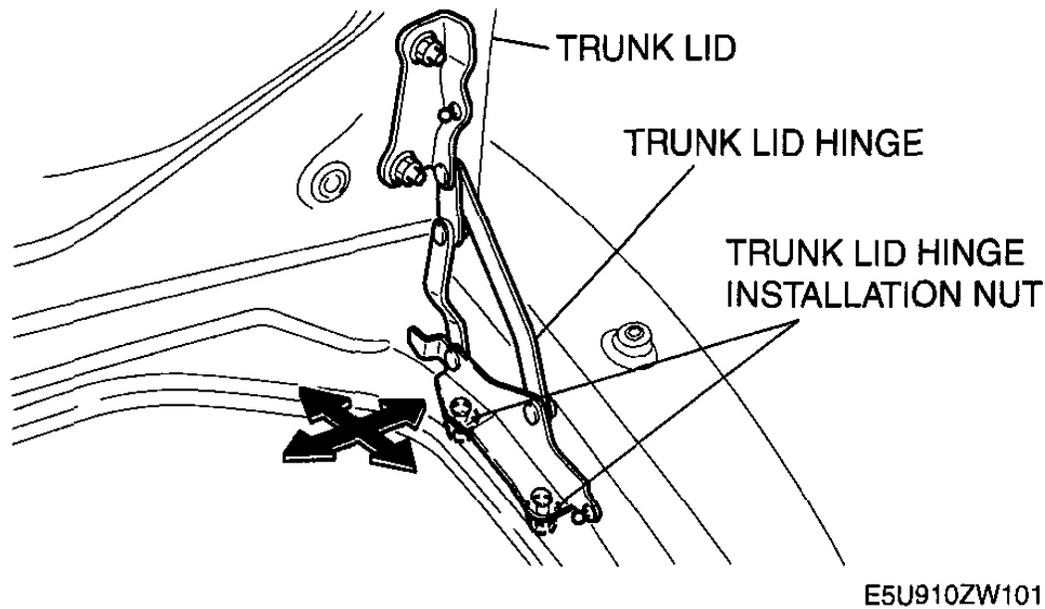


Fig. 22: Adjusting Trunk Lid
Courtesy of MAZDA MOTORS CORP.

Standard clearance

- a. **4.5-7.5 mm {0.18-0.29 in} (Except Power Retractable Hardtop) 5.5-8.5 mm {0.22-0.33 in} (Power Retractable Hardtop)**
 - b. **5.0-9.0 mm {0.20-0.35 in}**
 - c. **3.0-6.0 mm {0.12-0.23 in} (Except Power Retractable Hardtop) 4.0-8.0 mm {0.16-0.31 in} (Power Retractable Hardtop)**
 - d. **3.0-5.0 mm {0.12-0.19 in}**
3. Tighten the nuts.

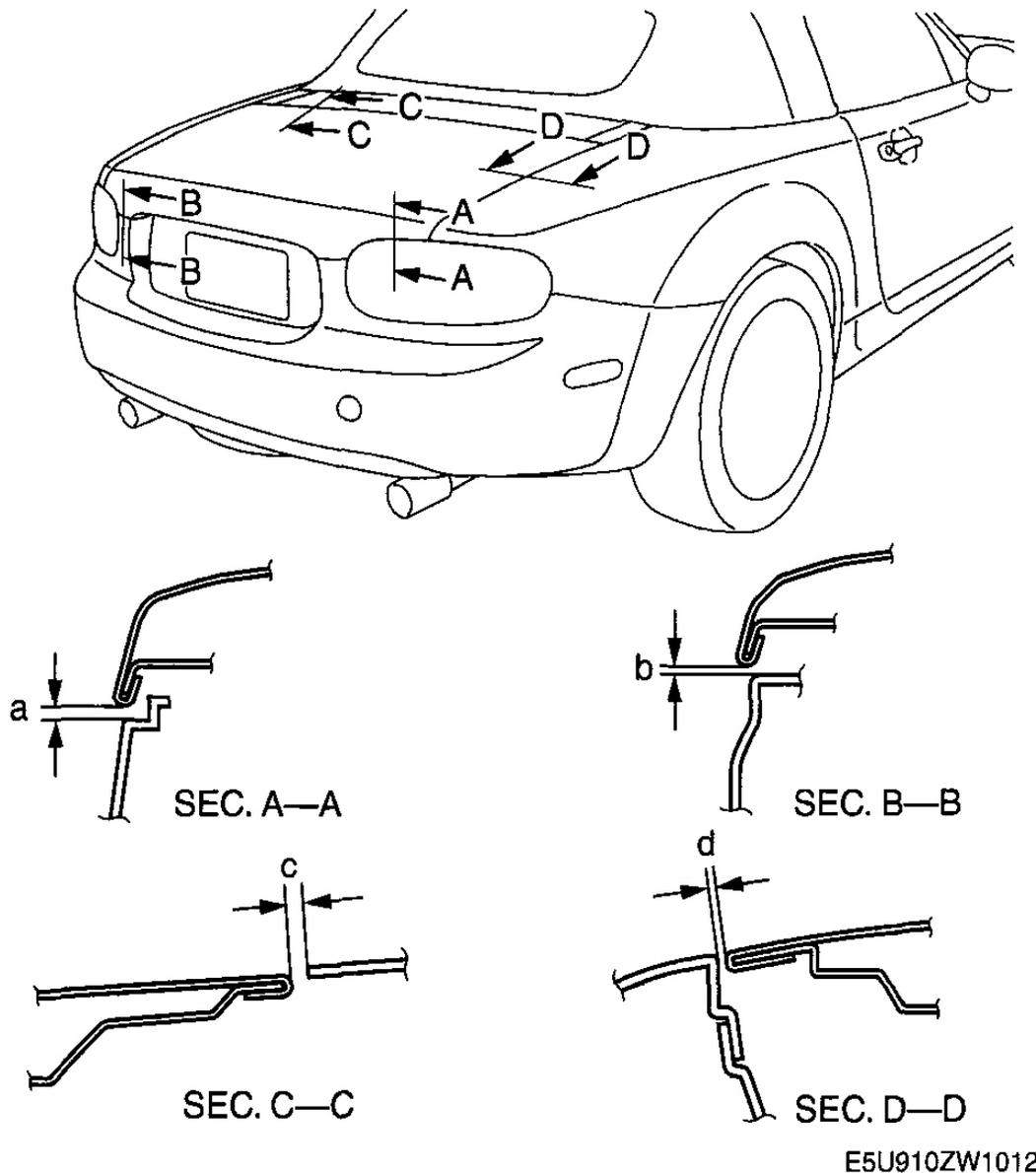


Fig. 23: Identifying Trunk Lid Standard Clearance
Courtesy of MAZDA MOTORS CORP.

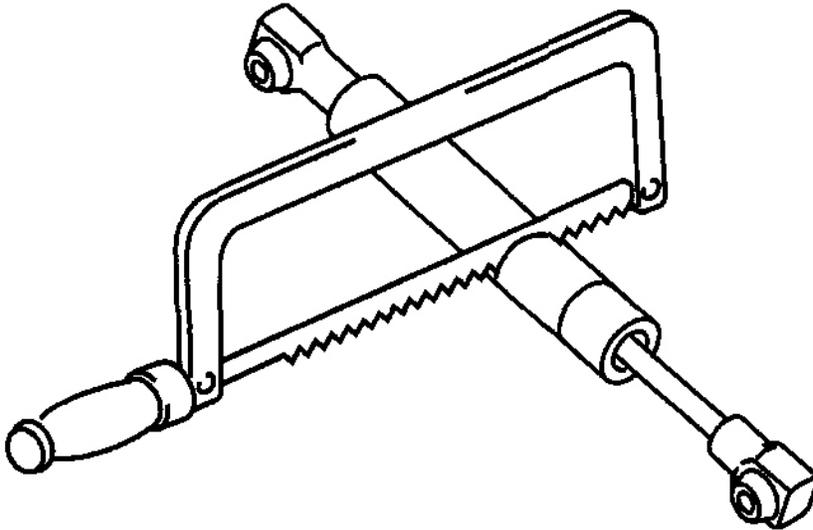
STAY DAMPER DISPOSAL

NOTE:

- The gas in the stay damper is colorless, odorless, and non-toxic.

1. Wear protective eye wear.

2. Lay the stay damper flat.
3. Saw **2-3 mm {0.08-0.11 in}** into the stay damper using a hacksaw, and allow the gas to escape from the stay damper.
4. Verify that the gas has escaped from the stay damper.
5. Discard the stay damper.



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Fig. 24: Cutting Into Stay Damper Using Hacksaw
Courtesy of MAZDA MOTORS CORP.

SEAT BACK CROSSMEMBER ASSEMBLY REMOVAL/INSTALLATION

1. Disconnect the negative battery cable. (See **BATTERY REMOVAL/INSTALLATION [LF]** .)
2. Remove the console. (See **CONSOLE REMOVAL/INSTALLATION** .)
3. Remove the quarter trim. (See **QUARTER TRIM REMOVAL/INSTALLATION** .)
4. Remove the scuff plate. (See **SCUFF PLATE REMOVAL/INSTALLATION** .)
5. Remove the tire house trim. (See **TIRE HOUSE TRIM REMOVAL/INSTALLATION** .)
6. Remove the aeroboard. (See **AEROBOARD REMOVAL/INSTALLATION** .)
7. Remove the seat back bar garnish. (See **SEAT BACK BAR GARNISH REMOVAL/INSTALLATION** .)
8. Remove the open hook lever. (See **BACK TRIM REMOVAL/INSTALLATION** .)

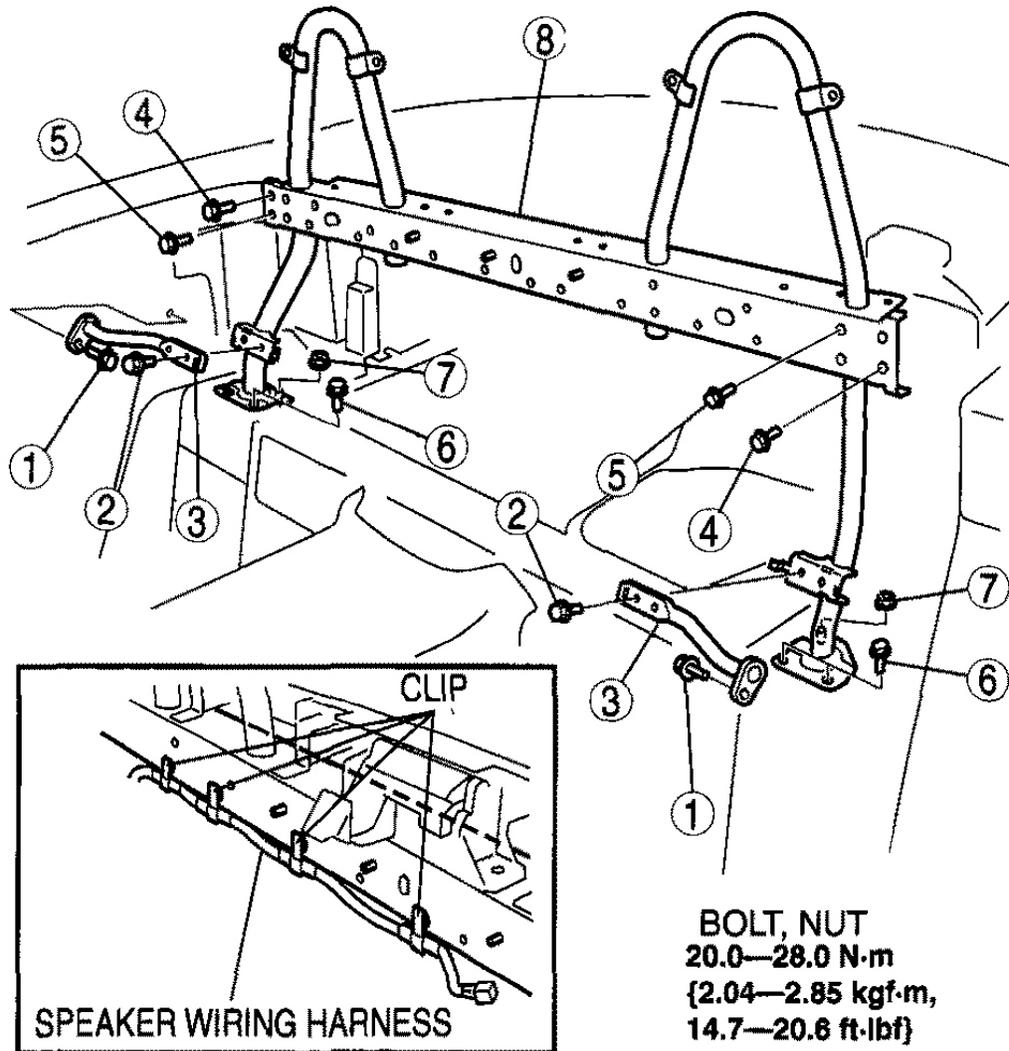
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9. Remove the back trim. (See **BACK TRIM REMOVAL/INSTALLATION** .)
10. Remove the open hook. (See **OPEN HOOK REMOVAL/INSTALLATION[ADVANCED KEYLESS SYSTEM]** .)
11. Remove the rear speaker. (See **REAR SPEAKER REMOVAL/INSTALLATION** .)
12. Remove the seat belt set plate. (See **SEAT BELT REMOVAL/INSTALLATION** .)
13. Remove the clips, then remove the speaker wiring harness.
14. Remove in the order indicated in **Fig. 25** .

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1	Bolt A
2	Bolt B
3	Junction
4	Bolt C
5	Bolt D
6	Bolt E
7	Nut
8	Seat Back Crossmember Assembly

Fig. 25: Removing/Installing Seat Back Crossmember Assembly (With Torque Specifications)
Courtesy of MAZDA MOTORS CORP.

15. Half open the power retractable hardtop

CAUTION: If the seat back crossmember component is removed with the power retractable hardtop fully opened, it may contact the middle roof and damage the roof. Half open the power retractable hardtop before removing the seat back crossmember component.

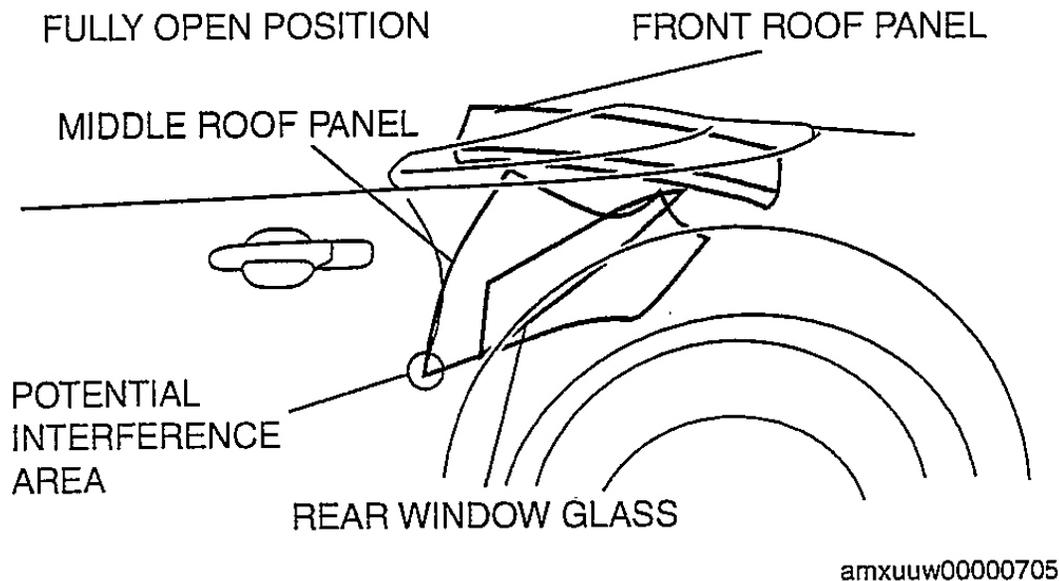


Fig. 26: Power Retractable Hardtop

16. Remove the clips, then remove the speaker wiring harness.
17. Remove in the order indicated in the table.
18. Install in the reverse order of removal.

SEAT BACK CROSSMEMBER ASSEMBLY INSTALLATION NOTE

1. After temporarily tightening all of the bolts and nuts, tighten them to the specified torque. Tightening Torque: 20.0-28.0 N.m {2.04-2.85 kgf.m, 14.7-20.6 lb.ft}