

GLASS/WINDOWS/MIRRORS

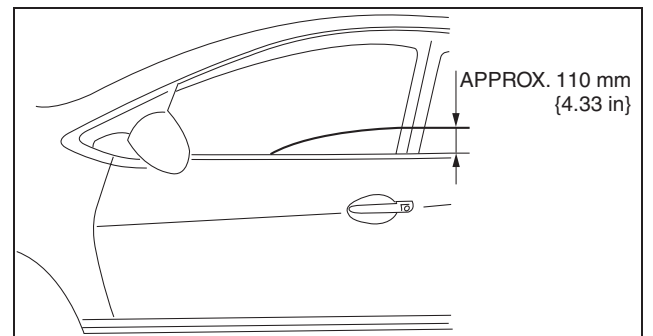
8	Power window main switch (See 09-12-21 POWER WINDOW MAIN SWITCH REMOVAL/INSTALLATION [3HB].) (See 09-12-22 POWER WINDOW MAIN SWITCH INSPECTION [3HB].) (See 09-12-27 POWER WINDOW SYSTEM INITIALIZATION PROCEDURE.) (See 09-12-27 TWO-STEP DOWN FUNCTION OPERATIVE/NON-OPERATIVE SWITCHING PROCEDURE.) (See 09-12-28 DOOR GLASS POSITION CHANGE PROCEDURE.)
9	Power window subswitch (See 09-12-24 POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION [3HB].) (See 09-12-26 POWER WINDOW SUBSWITCH INSPECTION [3HB].)
10	Quarter window glass (See 09-12-41 QUARTER WINDOW GLASS REMOVAL [3HB].) (See 09-12-42 QUARTER WINDOW GLASS INSTALLATION [3HB].)
11	Rear window glass (See 09-12-32 REAR WINDOW GLASS REMOVAL.) (See 09-12-36 REAR WINDOW GLASS INSTALLATION.) (See 09-12-53 FILAMENT INSPECTION.) (See 09-12-53 FILAMENT REPAIR.)

FRONT DOOR GLASS REMOVAL/INSTALLATION

1. To access the glass installation bolt, position the front door glass so that the distance from the top of the front door glass to the upper part of the front beltline molding is **approx. 110 mm {4.33 in}**.
2. Disconnect the negative battery cable.
3. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
4. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
5. Remove the front door speaker. (See 09-20-6 FRONT DOOR SPEAKER REMOVAL/INSTALLATION.)
6. Remove the hole cover.
7. Remove the bolts.

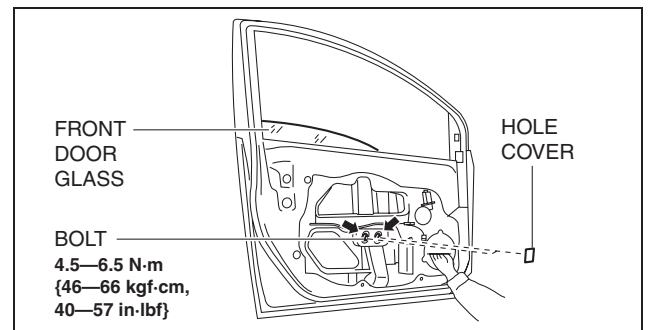
Caution

- If the bolts are removed without supporting the front door glass, the front door glass may fall off and be damaged. Remove the bolts while inserting your hand into the front door speaker installation hole to support the front door glass.



id09120000100

am2zzw0000439



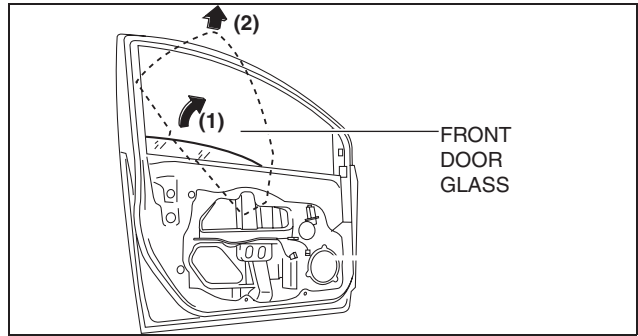
am2zzw0000046

GLASS/WINDOWS/MIRRORS

8. Lift up the front door glass, tilt it in the direction of arrow (1) shown in the figure, then remove it in the direction of arrow (2).
9. Install in the reverse order of removal.

Caution

- If the bolts are installed without supporting the front door glass, the front door glass may fall off and be damaged. When installing the front door glass, align the glass edge with the front door glass guide by hand through the speaker installation hole, and then install the bolts.

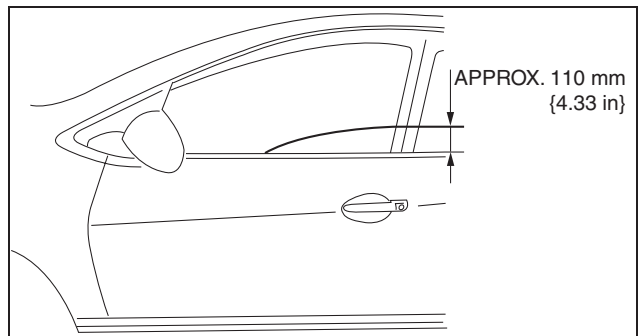


am2zzw000046

FRONT DOOR GLASS REMOVAL/INSTALLATION [3HB]

id091200001z3

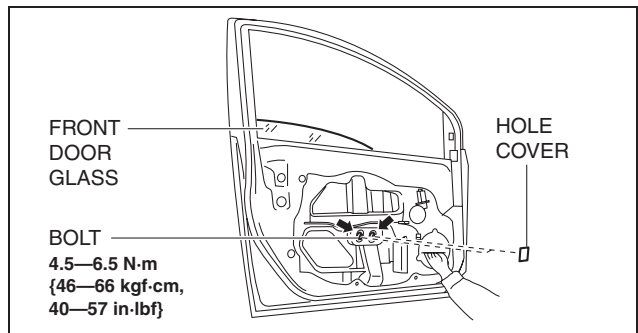
1. To access the glass installation bolt, position the front door glass so that the distance from the top of the front door glass to the upper part of the front beltline molding is **approx. 110 mm {4.33 in}**.
2. Disconnect the negative battery cable.
3. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
4. Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
5. Remove the front door speaker. (See 09-20-6 FRONT DOOR SPEAKER REMOVAL/INSTALLATION.)
6. Remove the hole cover.
7. Remove the bolts.



am2zzw0000439

Caution

- If the bolts are removed without supporting the front door glass, the front door glass may fall off and be damaged. Remove the bolts while inserting your hand into the front door speaker installation hole to support the front door glass.

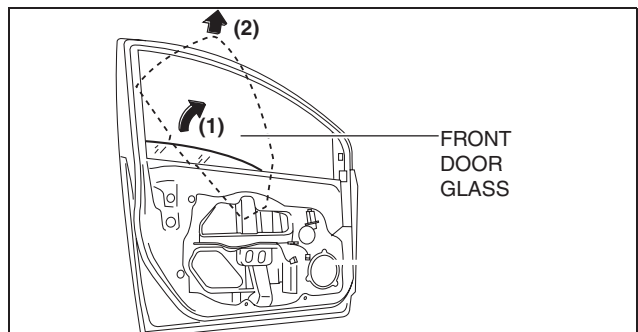


am2zzw000046

8. Lift up the front door glass, tilt it in the direction of arrow (1) shown in the figure, then remove it in the direction of arrow (2).
9. Install in the reverse order of removal.

Caution

- If the bolts are installed without supporting the front door glass, the front door glass may fall off and be damaged. When installing the front door glass, align the glass edge with the front door glass guide by hand through the speaker installation hole, and then install the bolts.



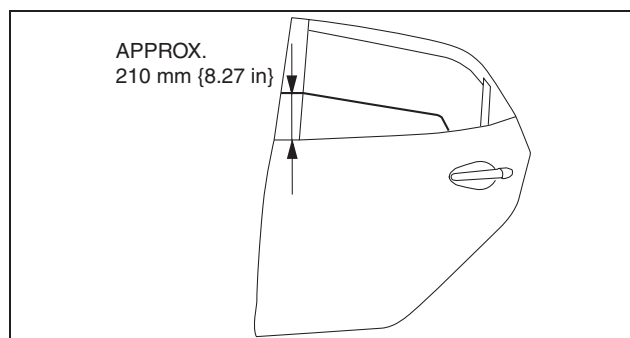
am2zzw000046

GLASS/WINDOWS/MIRRORS

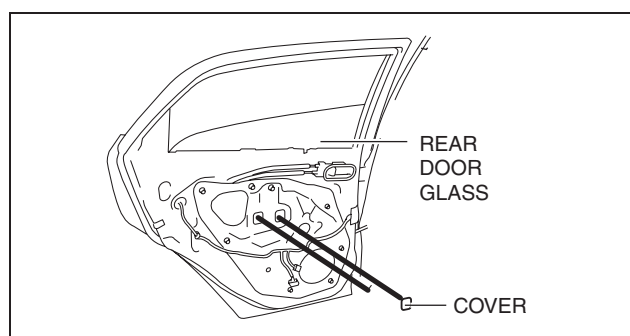
REAR DOOR GLASS REMOVAL/INSTALLATION

id09120000300

1. To access the glass installation bolt, position the rear door glass so that the distance from the top of the rear door glass to the upper part of the rear beltline molding is **approx. 210 mm {8.27 in}**.
2. Disconnect the negative battery cable.
3. Remove the sail inner garnish. (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
4. Remove the rear door garnish. (See 09-16-21 REAR DOOR GARNISH REMOVAL/INSTALLATION.)
5. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
6. Remove the rear door speaker. (See 09-20-8 REAR DOOR SPEAKER REMOVAL/INSTALLATION.)
7. Remove the rear door glass guide and glass run channel as a single unit. (See 09-12-10 Rear Door Glass Guide Removal Note.)
8. Remove the hole cover.



am2zzw0000439

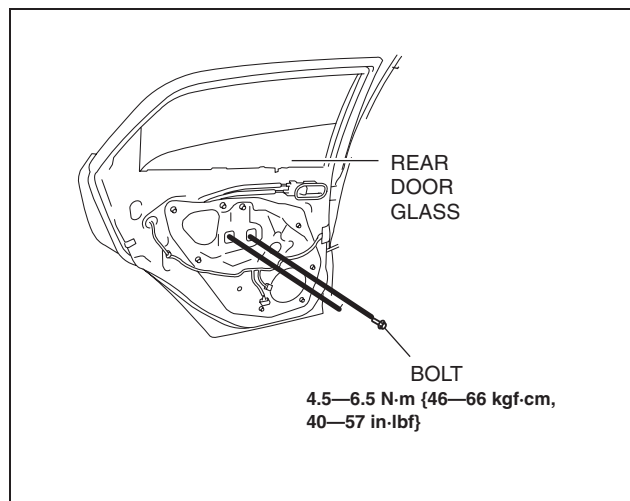


am2zzw0000434

9. Remove the bolts.

Caution

- If the bolts are removed without supporting the rear door glass, the rear door glass may fall off and be damaged. Remove the bolts while inserting your hand into the rear door speaker installation hole to support the rear door glass.

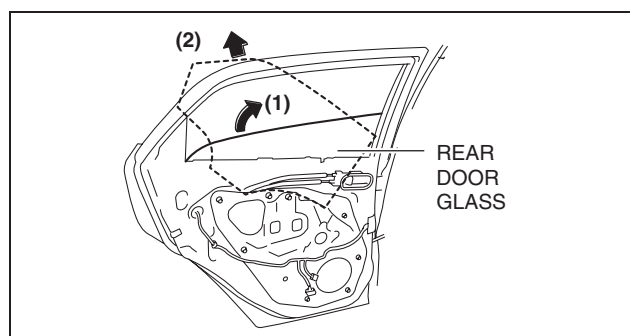


am2zzw0000434

10. Lift up the rear door glass, tilt it in the direction of arrow (1) shown in the figure, then remove it in the direction of arrow (2).
11. Install in the reverse order of removal.

Caution

- If the bolts are installed without supporting the rear door glass, the rear door glass may fall off and be damaged. When installing the rear door glass, align the glass edge with the rear door glass guide by hand through the speaker installation hole, and then install the bolts.

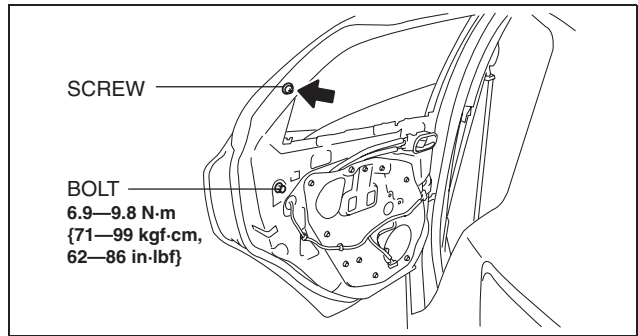


am2zzw000047

GLASS/WINDOWS/MIRRORS

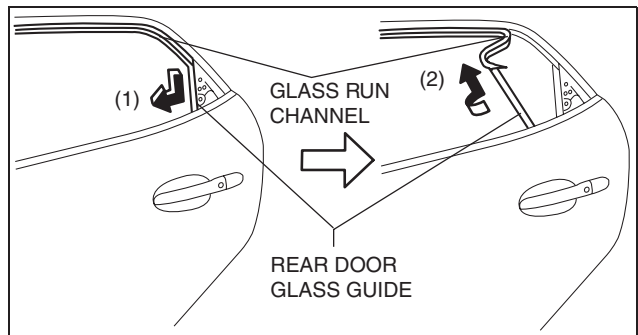
Rear Door Glass Guide Removal Note

1. Pull up the rear door weatherstrip and remove the screw.
2. Remove the bolt.



am2zzw0000047

3. Slide the rear door glass guide in the direction of the arrow shown in the figure.
4. While rotating the rear door glass guide in the direction of the arrow shown in the figure, pull out the rear door glass guide and the glass run channel as a single unit from the rear door.

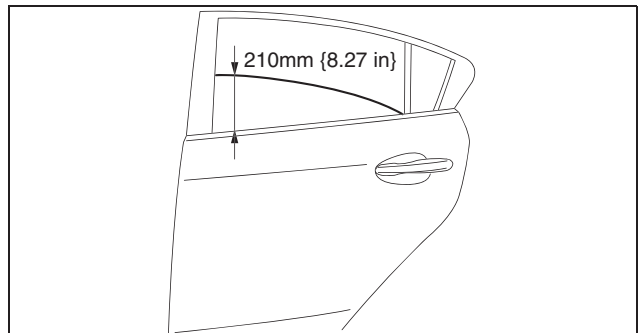


am2zzw0000047

REAR DOOR GLASS REMOVAL/INSTALLATION [4SD]

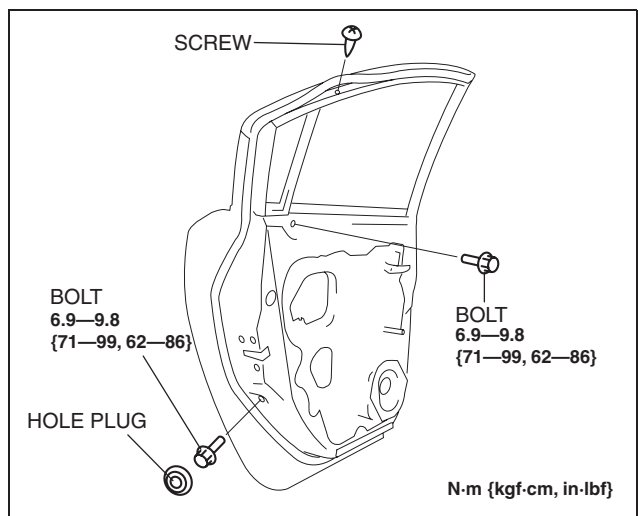
id091200000381

1. Fully lower the rear door glass.
2. Remove the rear beltline molding. (See 09-16-10 REAR BELTLINE MOLDING REMOVAL/INSTALLATION.)
3. To access the glass installation bolt, position the rear door glass so that the distance from the top of the rear door glass to the upper part of the rear beltline molding is **approx. 210 mm {8.27 in}**.
4. Disconnect the negative battery cable.
5. Remove the sail inner garnish. (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
6. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)



am2ccw0000020

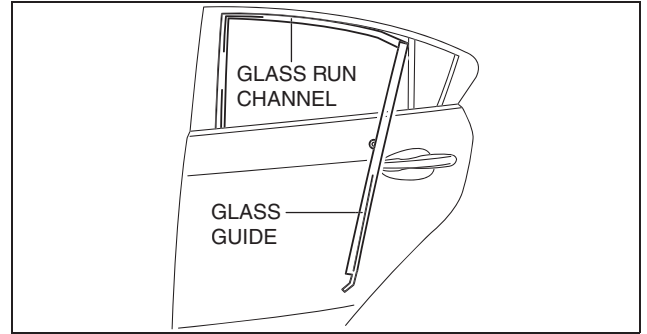
7. Remove the bolts and screw.



am3zzw0000191

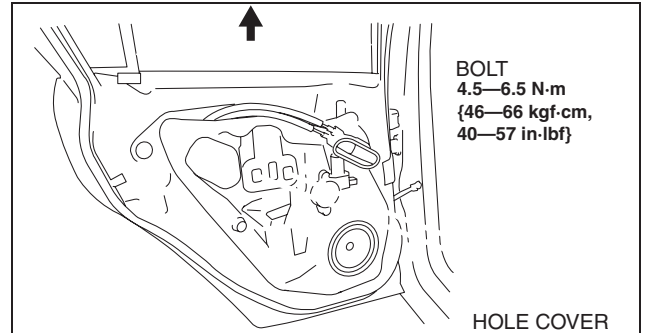
GLASS/WINDOWS/MIRRORS

8. Remove the rear door glass guide and glass run channel as a single unit.
9. Remove the hole cover.



am2ccw0000020

10. Remove the screw.
11. Lift the rear door glass up and remove while tilting it.
12. Install in the reverse order of removal.

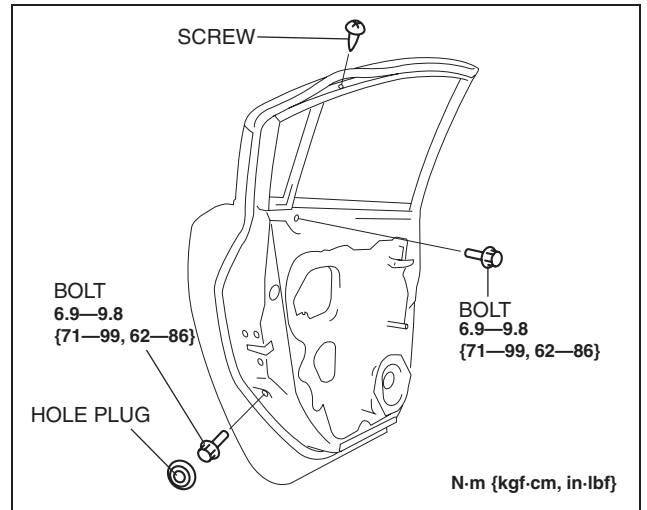


am2zzw0000501

REAR DOOR QUARTER GLASS REMOVAL/INSTALLATION [4SD]

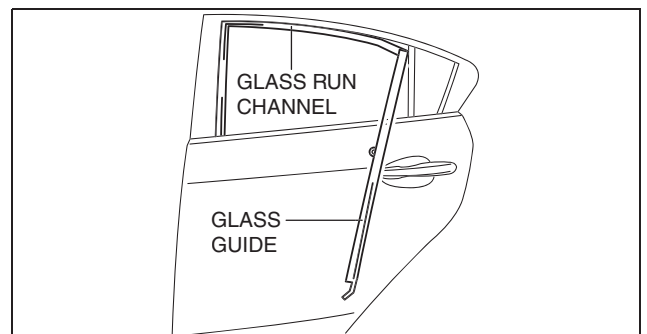
id091200005681

1. Disconnect the negative battery cable.
2. Remove the sail inner garnish. (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the rear beltline molding. (See 09-16-10 REAR BELTLINE MOLDING REMOVAL/INSTALLATION.)
4. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
5. Remove the bolts and screw.



am3zzw0000275

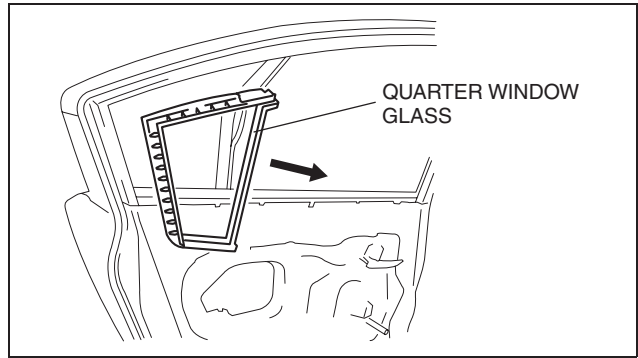
6. Remove the rear door glass guide and glass run channel as a single unit.



am2ccw0000020

GLASS/WINDOWS/MIRRORS

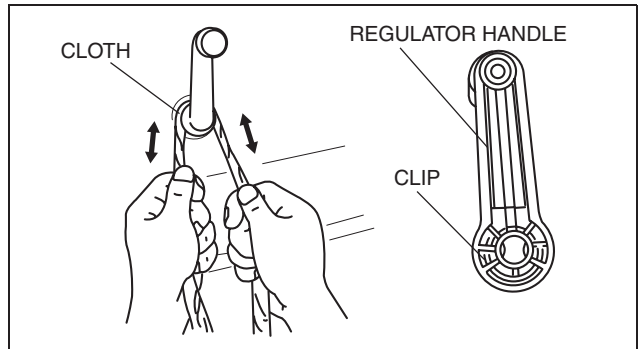
7. Remove the rear door quarter glass.
8. Install in the reverse order of removal.



am3zzw0000275

REGULATOR HANDLE REMOVAL

1. Using a cloth, remove the regulator handle installation clip and remove the regulator handle.

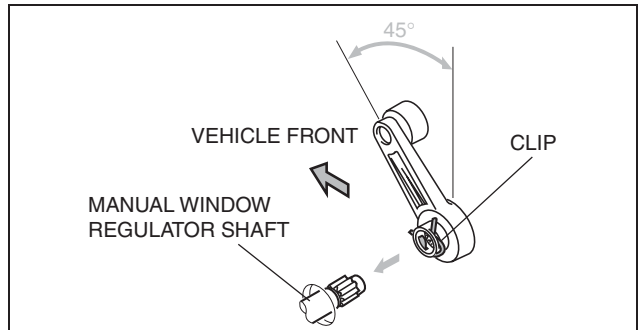


id091200009600

am2zzw0000426

REGULATOR HANDLE INSTALLATION

1. Fully raise the door glass.
2. Install the clip to the regulator handle.
3. Install the regulator handle while tilting it as shown in the figure and press it onto the shaft.

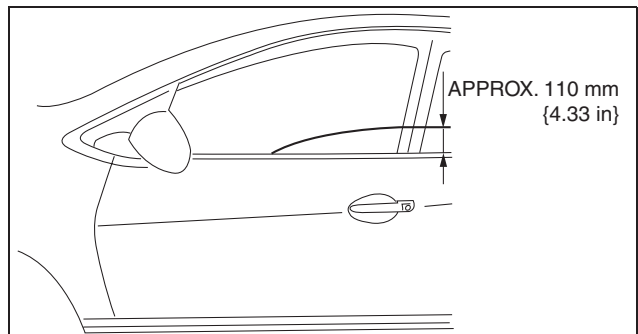


id091200009700

am2zzw0000347

FRONT POWER WINDOW REGULATOR REMOVAL/INSTALLATION

1. To access the glass installation bolt, position the front door glass so that the distance from the top of the front door glass to the upper part of the front beltline molding is **approx. 110 mm {4.33 in}**.
2. Disconnect the negative battery cable.
3. Remove the following parts:
 - (1) Inner garnish (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
 - (2) Front door trim (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
 - (3) Front door speaker (See 09-20-6 FRONT DOOR SPEAKER REMOVAL/INSTALLATION.)
 - (4) Front door glass (See 09-12-7 FRONT DOOR GLASS REMOVAL/INSTALLATION.)
 - (5) Front power window motor (See 09-12-17 POWER WINDOW MOTOR REMOVAL/INSTALLATION.)

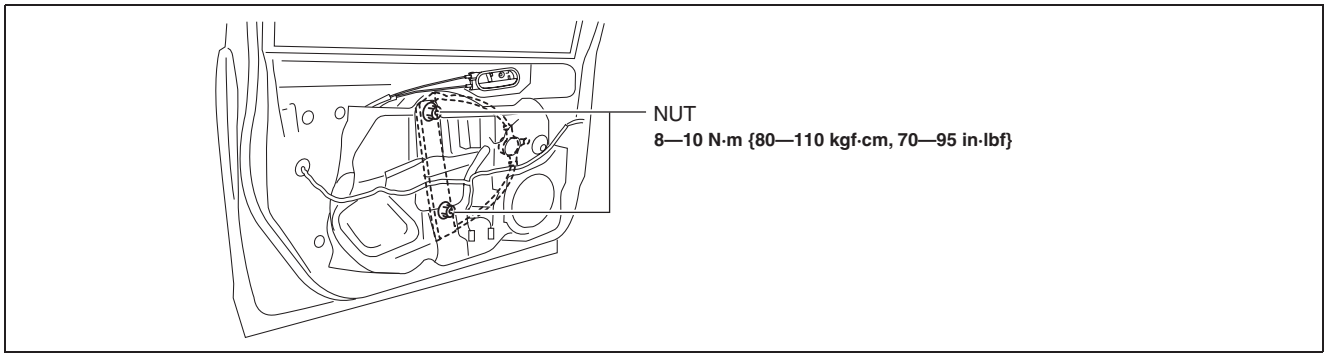


id091200001100

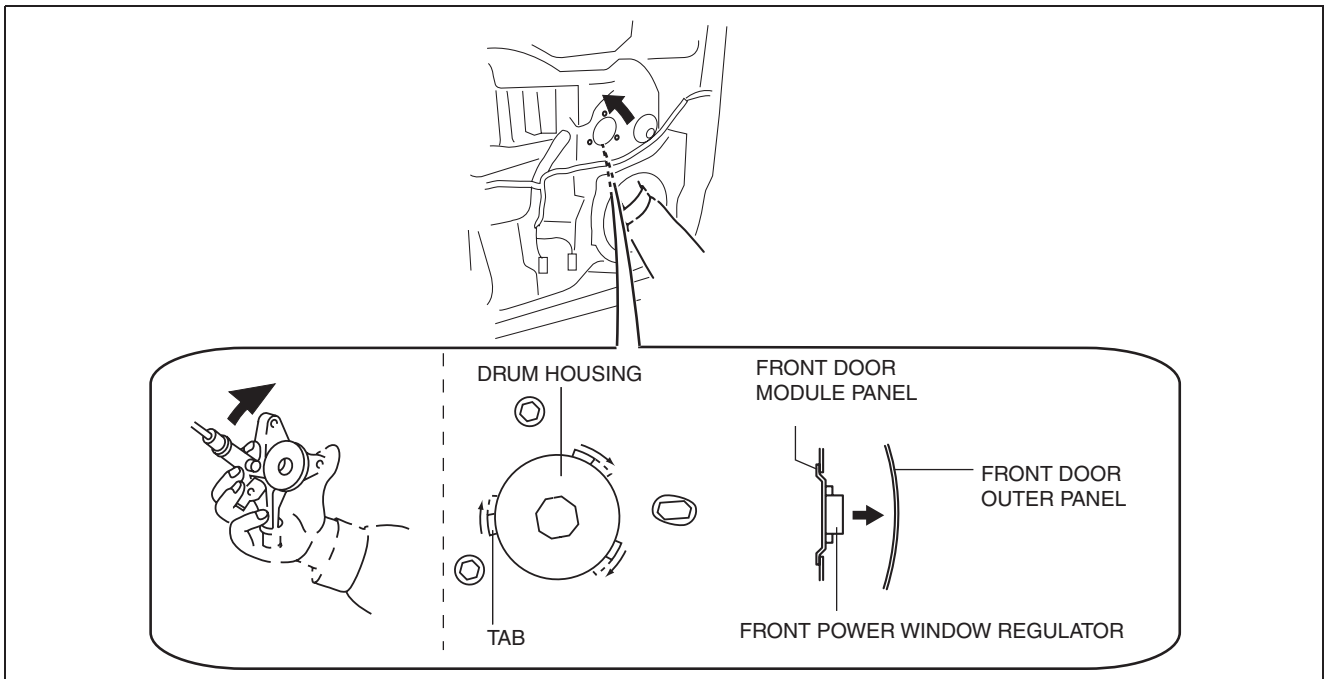
am2zzw0000440

GLASS/WINDOWS/MIRRORS

4. Remove the nuts.



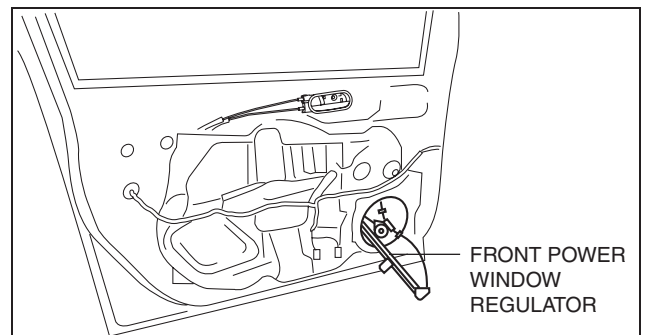
5. Insert a hand through the front door speaker installation hole and rotate the drum housing in the direction of the arrow shown in the figure to detach the tabs from the front door module panel.



6. Remove the front power window regulator from the speaker installation hole.
7. Install in the reverse order of removal.

Caution

- When installing, do not allow the cable to come out from the drum housing.

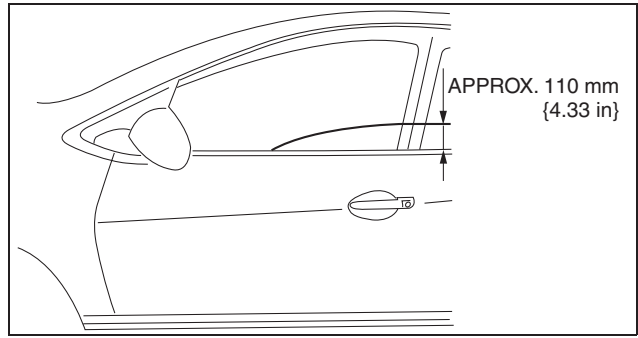


GLASS/WINDOWS/MIRRORS

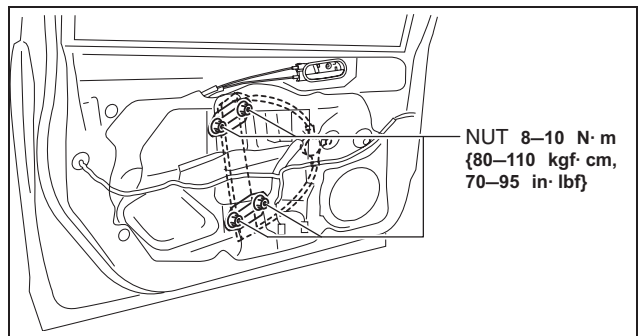
FRONT POWER WINDOW REGULATOR REMOVAL/INSTALLATION [3HB]

id0912000011z3

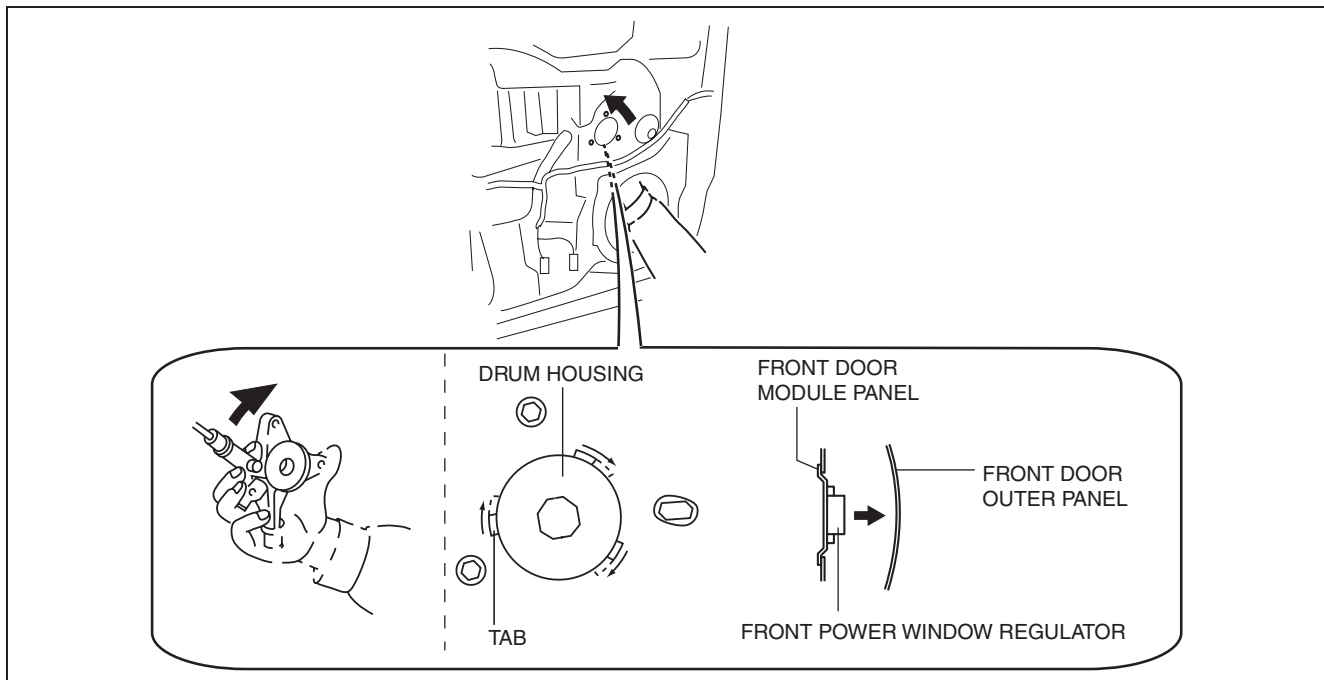
1. To access the glass installation bolt, position the front door glass so that the distance from the top of the front door glass to the upper part of the front beltline molding is **approx. 110 mm {4.33 in}**.
2. Disconnect the negative battery cable.
3. Remove the following parts:
 - (1) Inner garnish (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
 - (2) Front door trim (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
 - (3) Front door speaker (See 09-20-6 FRONT DOOR SPEAKER REMOVAL/INSTALLATION.)
 - (4) Front door glass (See 09-12-8 FRONT DOOR GLASS REMOVAL/INSTALLATION [3HB].)
 - (5) Front power window motor (See 09-12-18 POWER WINDOW MOTOR REMOVAL/INSTALLATION [3HB].)
4. Remove the nuts.
5. Insert a hand through the front door speaker installation hole and rotate the drum housing in the direction of the arrow shown in the figure to detach the tabs from the front door module panel.



am2zzw0000440



am2zzw0000338



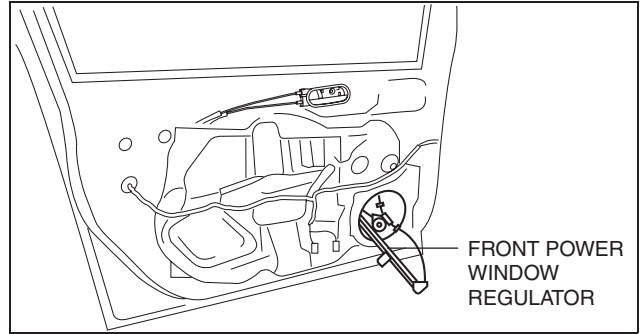
am2zzw0000502

GLASS/WINDOWS/MIRRORS

6. Remove the front power window regulator from the speaker installation hole.
7. Install in the reverse order of removal.

Caution

- When installing, do not allow the cable to come out from the drum housing.

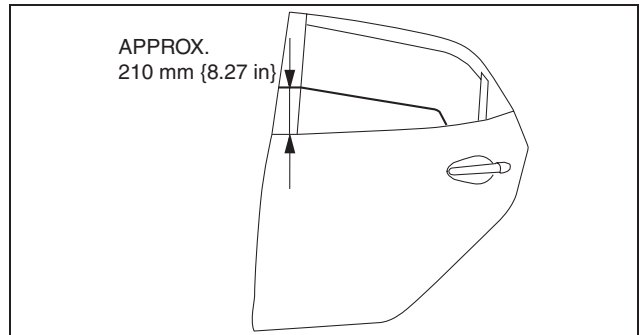


am2zzw000047

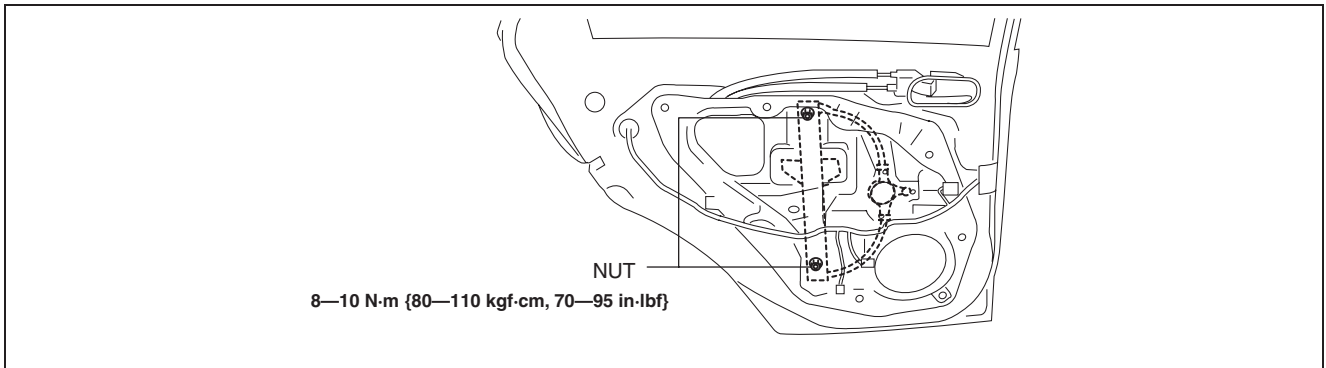
REAR POWER WINDOW REGULATOR REMOVAL/INSTALLATION

id091200001200

1. To access the glass installation bolt, position the rear door glass so that the distance from the top of the rear door glass to the upper part of the rear beltline molding is **approx. 210 mm {8.27 in}**.
2. Disconnect the negative battery cable.
3. Remove the following parts:
 - (1) Sail inner garnish (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
 - (2) Rear door garnish (See 09-16-21 REAR DOOR GARNISH REMOVAL/INSTALLATION.)
 - (3) Rear door trim (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
 - (4) Rear door speaker (See 09-20-8 REAR DOOR SPEAKER REMOVAL/INSTALLATION.)
 - (5) Rear door glass (See 09-12-9 REAR DOOR GLASS REMOVAL/INSTALLATION.)
4. Remove the nuts.



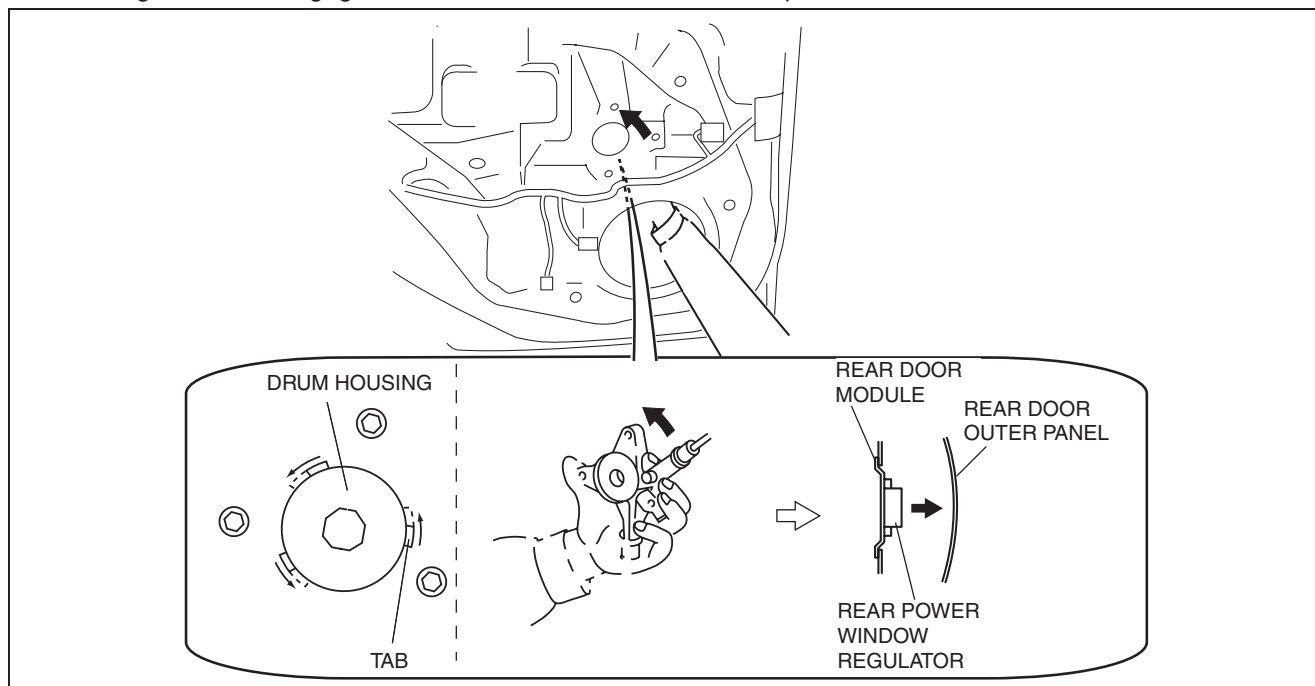
am2zzw0000440



am2zzw0000481

GLASS/WINDOWS/MIRRORS

5. Insert your hand through the rear door speaker installation hole, rotate the drum housing in the direction shown in the figure and disengage the tabs from the rear door module panel.

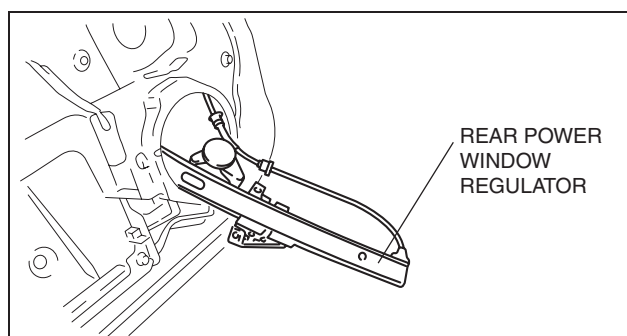


am2zzw0000232

6. Remove the rear power window regulator from the rear speaker installation hole.
7. Install in the reverse order of removal.

Caution

- When installing, do not allow the cable to come out from the drum housing.

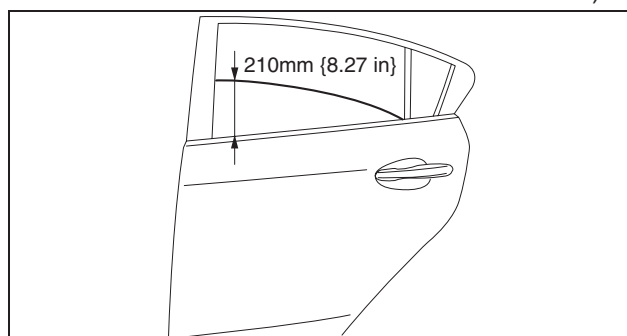


am2zzw0000047

REAR POWER WINDOW REGULATOR REMOVAL/INSTALLATION [4SD]

id091200001281

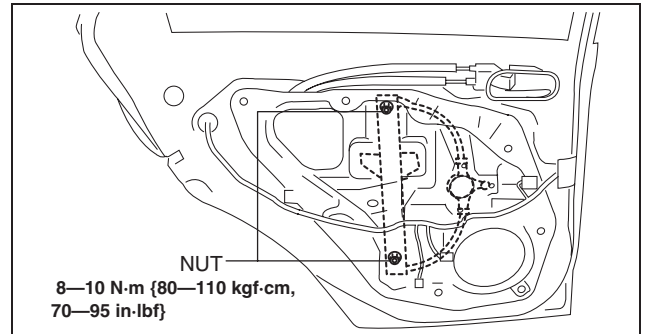
1. Fully lower the rear door glass.
2. Remove the rear beltline molding. (See 09-16-10 REAR BELTLINE MOLDING REMOVAL/INSTALLATION.)
3. To access the glass installation bolt, position the rear door glass so that the distance from the top of the rear door glass to the upper part of the rear beltline molding is **approx. 210 mm {8.27 in}**.
4. Remove the sail garnish. (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
5. Disconnect the negative battery cable.
6. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
7. Remove the rear door speaker. (See 09-20-8 REAR DOOR SPEAKER REMOVAL/INSTALLATION.)
8. Remove the rear door glass. (See 09-12-9 REAR DOOR GLASS REMOVAL/INSTALLATION.)



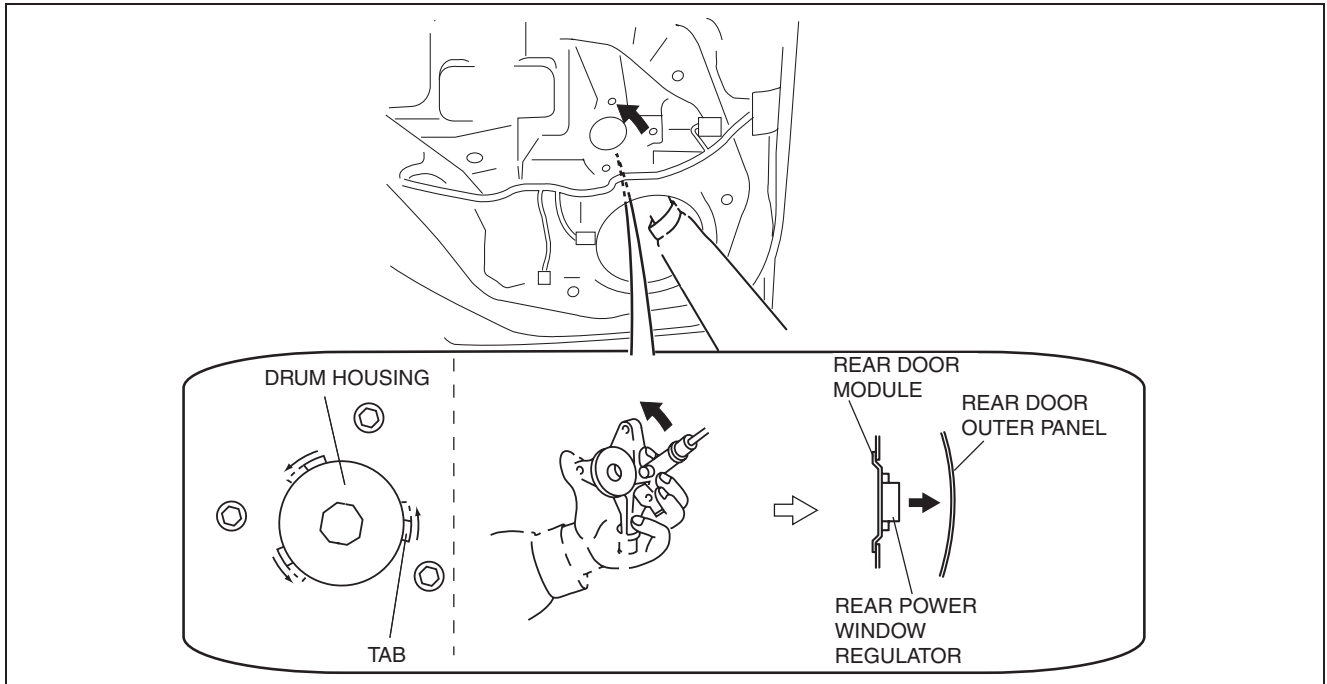
am2zzw0000496

GLASS/WINDOWS/MIRRORS

9. Remove the nuts.
10. Insert your hand through the rear door speaker installation hole, rotate the drum housing in the direction shown in the figure and disengage the tabs from the rear door module panel.



am2zzw0000491

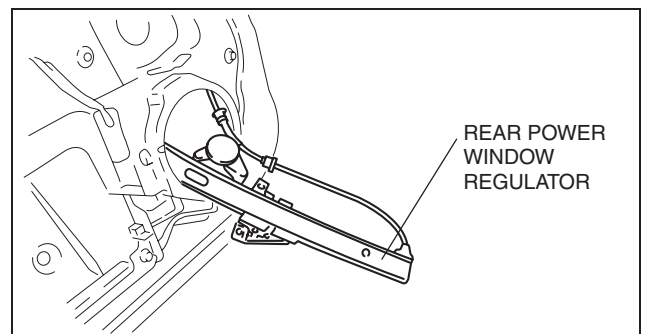


am2zzw0000232

11. Remove the rear power window regulator from the rear speaker installation hole.
12. Install in the reverse order of removal.

Caution

- When installing, do not allow the cable to come out from the drum housing.



am2zzw0000047

POWER WINDOW MOTOR REMOVAL/INSTALLATION

id091200001400

Front Power Window Motor

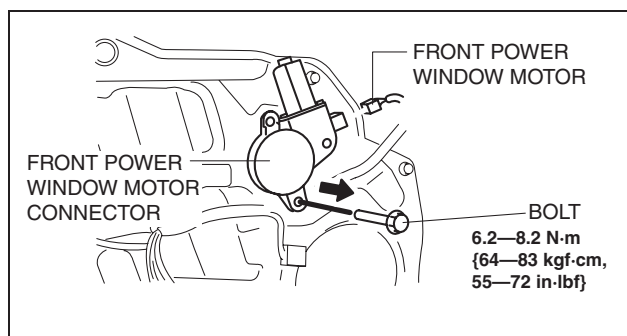
1. Disconnect the negative battery cable.
2. Remove the inner garnish (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)

GLASS/WINDOWS/MIRRORS

4. Disconnect the front power window motor connector, remove the bolt, then remove the front power window motor from the front power window regulator drum in the direction of the arrow shown in the figure.
5. Install in the reverse order of removal.

Note

- When installing the front power window motor to the front power window regulator drum, the drum housing hooks may detach from the door module panel. If this happens, remove the front door speaker, insert your hand in the speaker installation hole, connect the drum housing hooks, and while supporting the drum housing, install the front power window motor to the drum.



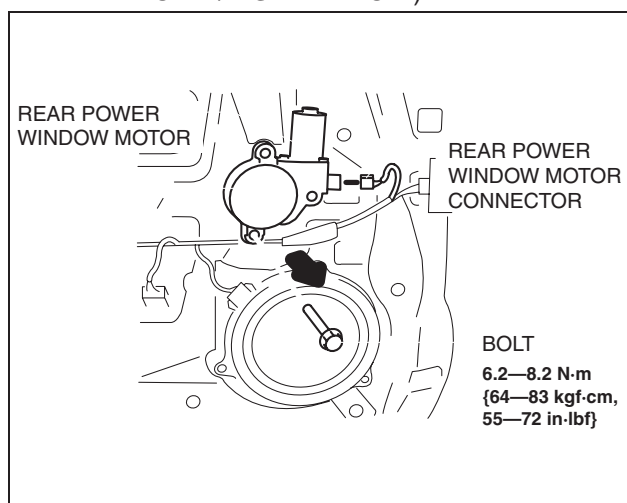
am2zzw0000247

Rear Power Window Motor

1. Disconnect the negative battery cable.
2. Remove the sail inner garnish. (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
4. Disconnect the rear power window motor connector, remove the bolt, then remove the power window motor from the power window regulator drum.
5. Install in the reverse order of removal.

Note

- When installing the rear power window motor to the rear power window regulator drum, the drum housing hooks may detach from the door module panel. If this happens, remove the door speaker, insert your hand in the speaker installation hole, connect the drum housing hooks, and while supporting the drum housing, install the rear power window motor to the drum.



am2zzw0000506

POWER WINDOW MOTOR REMOVAL/INSTALLATION [3HB]

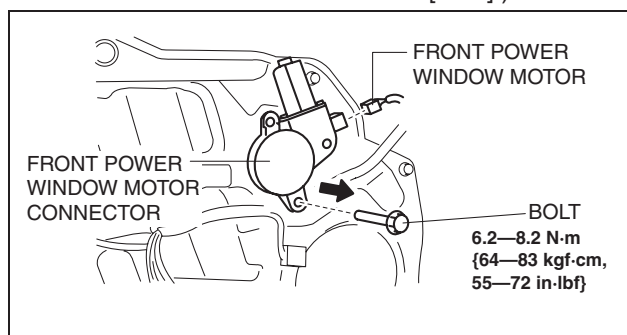
id0912000014z3

Front Power Window Motor

1. Disconnect the negative battery cable.
2. Remove the inner garnish (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Disconnect the front power window motor connector, remove the bolt, then remove the front power window motor from the front power window regulator drum in the direction of the arrow shown in the figure.
5. Install in the reverse order of removal.

Note

- When installing the front power window motor to the front power window regulator drum, the drum housing hooks may detach from the door module panel. If this happens, remove the front door speaker, insert your hand in the speaker installation hole, connect the drum housing hooks, and while supporting the drum housing, install the front power window motor to the drum.



am2zzw0000338

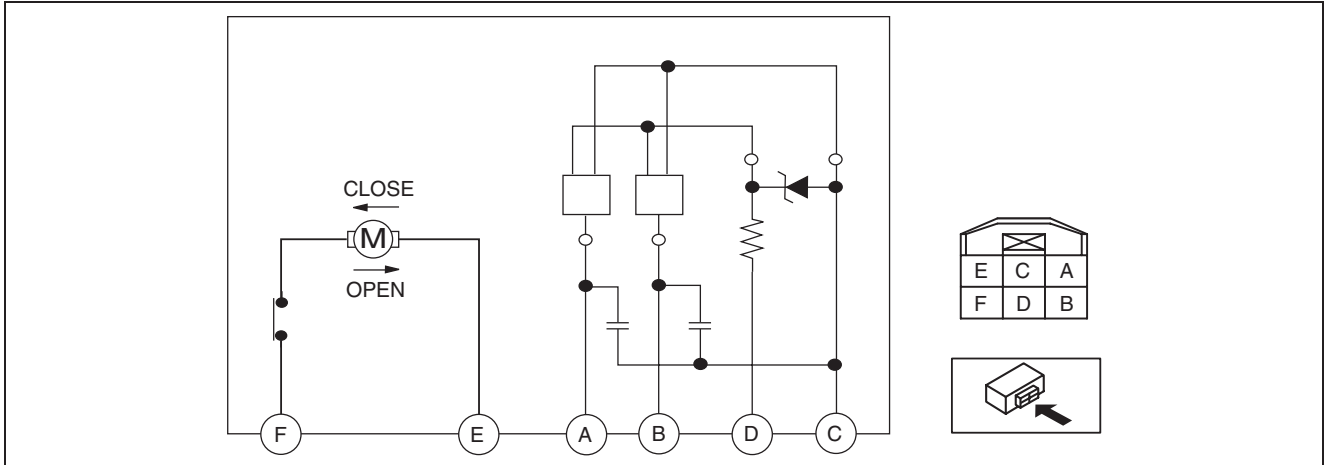
GLASS/WINDOWS/MIRRORS

POWER WINDOW MOTOR INSPECTION

id091200001700

Driver's Side

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Disconnect the power window motor connector.
5. Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.



am2zzw0000446

- If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	Ground	B+
Close	B+	Ground

6. Connect the battery positive voltage to power window motor terminal D and connect terminal C to ground.
7. Operate the power window motor and measure the voltage at terminals A and B.
 - If there is any malfunction, replace the power window motor.

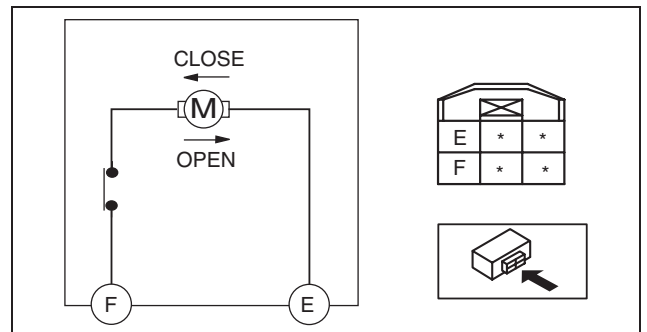
Voltage

Pulse: max. 5 V/min. 0 V

Passenger's Side

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Disconnect the power window motor connector.
5. Apply battery positive voltage and connect the ground to the power window motor terminals, and then inspect the power window motor operation.
 - If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	Ground	B+
Close	B+	Ground



am2zzw0000447

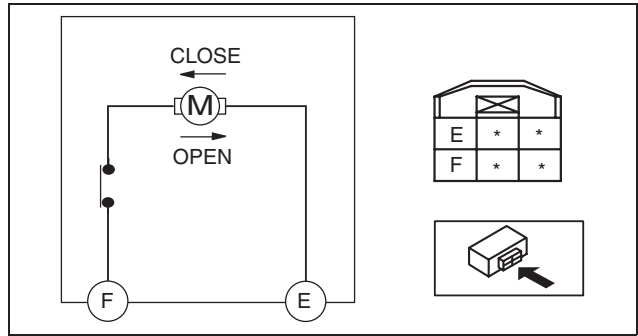
Rear Side

1. Disconnect the negative battery cable.
2. Remove the sail inner garnish. (See 09-17-53 SAIL INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the Rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
4. Disconnect the power window motor connector.

GLASS/WINDOWS/MIRRORS

- Apply battery positive voltage and connect the ground to the power window motor terminals, and then inspect the power window motor operation.
 - If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	Ground	B+
Close	B+	Ground



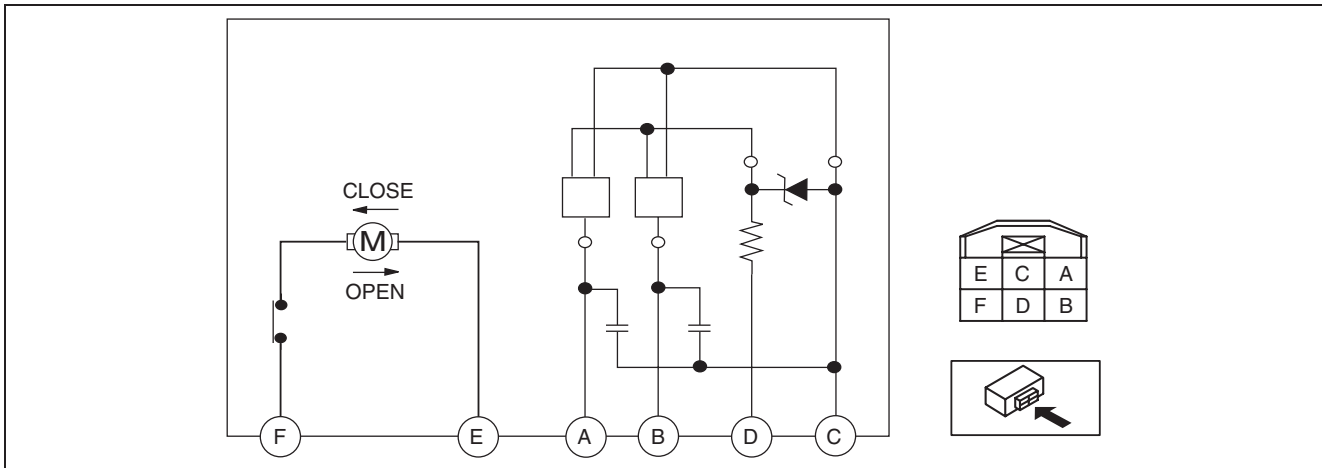
am2zzw0000447

POWER WINDOW MOTOR INSPECTION [3HB]

id0912000017z3

Driver's Side

- Disconnect the negative battery cable.
- Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
- Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
- Disconnect the power window motor connector.
- Apply battery positive voltage and connect the ground to power window motor terminals E and F, and then inspect the power window motor operation.



am2zzw0000447

- If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	Ground	B+
Close	B+	Ground

- Connect the battery positive voltage to power window motor terminal D and connect terminal C to ground.
- Operate the power window motor and measure the voltage at terminals A and B.
 - If there is any malfunction, replace the power window motor.

Voltage

Pulse: max. 5 V/min. 0 V

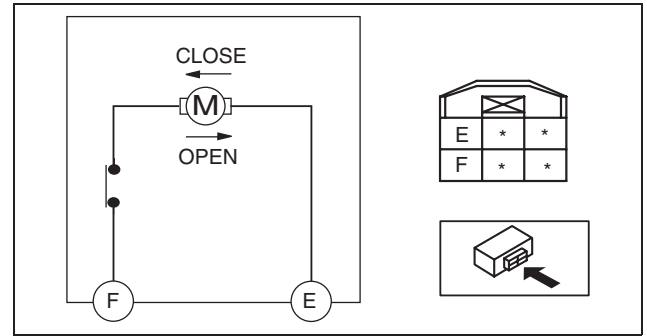
Passenger's Side

- Disconnect the negative battery cable.
- Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
- Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
- Disconnect the power window motor connector.

GLASS/WINDOWS/MIRRORS

5. Apply battery positive voltage and connect the ground to the power window motor terminals, and then inspect the power window motor operation.
 - If the power window motor does not operate as indicated in the table, replace it.

Operation	Terminal	
	E	F
Open	Ground	B+
Close	B+	Ground



am2zzw0000447

POWER WINDOW MAIN SWITCH REMOVAL/INSTALLATION

id091200002000

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the driver's side front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window main switch. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Install in the reverse order of removal.

POWER WINDOW MAIN SWITCH REMOVAL/INSTALLATION [3HB]

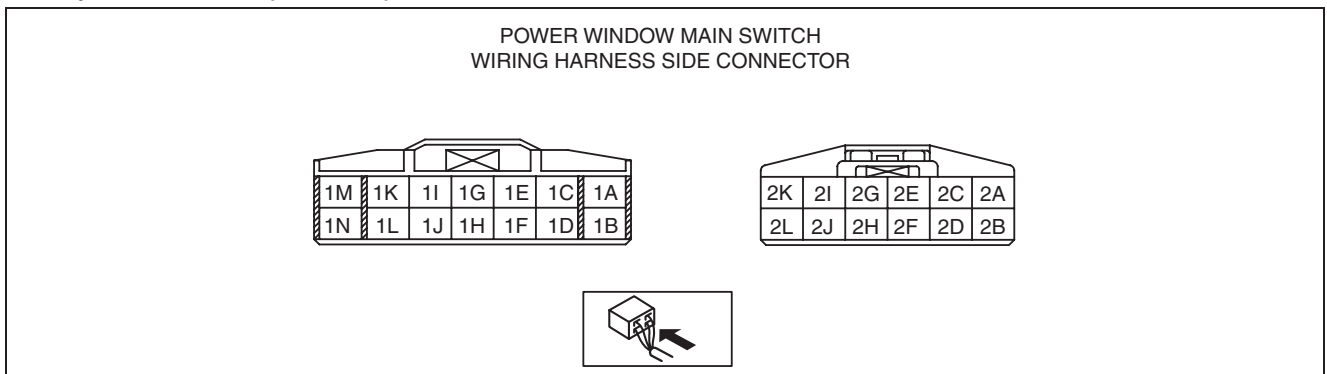
id0912000020z3

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the driver's side front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Remove the power window main switch. (See 09-17-63 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY [3HB].)
5. Install in the reverse order of removal.

POWER WINDOW MAIN SWITCH INSPECTION

id091200002100

1. Turn the ignition switch to the ON position.
2. Verify that the door glass (driver's side) can be operated for **approx. 43 s** after the ignition switch is turned to the LOCK position.
 - If the door glass (driver's side) cannot be operated for **approx. 43 s** after the ignition switch is turned to the LOCK position, or if the door glass (driver's side) can still be operated after **approx. 43 s**, replace the power window main switch.
3. Disconnect the negative battery cable.
4. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
5. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
6. Remove the switch panel. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
7. Connect the power window main switch connector.
8. Connect the negative battery cable.
9. Measure the voltage at each terminal.
 - If the voltage is not as specified in the terminal voltage table, inspect the parts under Inspection item(s) and related wiring harnesses.
10. If the system does not work normally even though the inspection items or related wiring harnesses do not have any malfunction, replace the power window main switch.



am2zzw0000510

GLASS/WINDOWS/MIRRORS

Terminal Voltage Table (Reference)

Terminal	Signal name	Connected to	Measurement condition	Voltage (V)	Inspection item (s)
1A	Sensor ground	Power window motor (driver's side)	Under any condition	1.0 or less	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
1B	GND	Body ground	Under any condition	1.0 or less	<ul style="list-style-type: none"> Related wiring harness
1C	Window close signal	Power window motor (RR)	Door glass (RR) closing	B+	<ul style="list-style-type: none"> Power window motor (RR) Related wiring harness
			Other	1.0 or less	
1D	Pulse 1	Power window motor (driver's side)	Door glass (driver's side) operating	Alternates between 1.0 or less and 5	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
1E	Window open signal	Power window motor (RR)	Door glass (RR) opening	B+	<ul style="list-style-type: none"> Power window motor (RR) Related wiring harness
			Other	1.0 or less	
1F	Sensor power supply	Power window motor (driver's side)	Switch the ignition to ON	B+	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
			Switch the ignition to off	1.0 or less	
1G	Window open signal	Power window motor (LR)	Door glass (LR) opening	B+	<ul style="list-style-type: none"> Power window motor (LR) Related wiring harness
			Other	1.0 or less	
1H	Pulse 2	Power window motor (driver's side)	Door glass (driver's side) operating	Alternates between 1.0 or less and 5	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
1I	Window close signal	Power window motor (LR)	Door glass (LR) closing	B+	<ul style="list-style-type: none"> Power window motor (LR) Related wiring harness
			Other	1.0 or less	
1J	Window close signal	Power window motor (driver's side)	Door glass (driver's side) closing	B+	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
			Other	1.0 or less	
1K	Door open/close signal	BCM	Terminal used for communication therefore determination based on terminal voltage inspection not possible.		<ul style="list-style-type: none"> BCM Related wiring harness
1L	Window open signal	Power window motor (driver's side)	Door glass (driver's side) opening	B+	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
			Other	1.0 or less	
1M	IG1	P.WIND 30 A fuse	Switch the ignition to ON	B+	<ul style="list-style-type: none"> P.WIND 30 A fuse Related wiring harness
			Switch the ignition to off	1.0 or less	
1N	Power supply	P.WIND 20 A fuse	Under any condition	B+	<ul style="list-style-type: none"> P.WIND 20 A fuse Related wiring harness
2A*1	Window open signal	Power window motor (passenger's side)	Door glass (passenger's side) opening	B+	<ul style="list-style-type: none"> Power window motor (passenger's side) Related wiring harness
2B*1			Other	1.0 or less	
2K*2	Window open signal	Power window motor (passenger's side)	Door glass (passenger's side) opening	B+	<ul style="list-style-type: none"> Power window motor (passenger's side) Related wiring harness
2L*2			Other	1.0 or less	

*1 : L.H.D.

*2 : R.H.D.

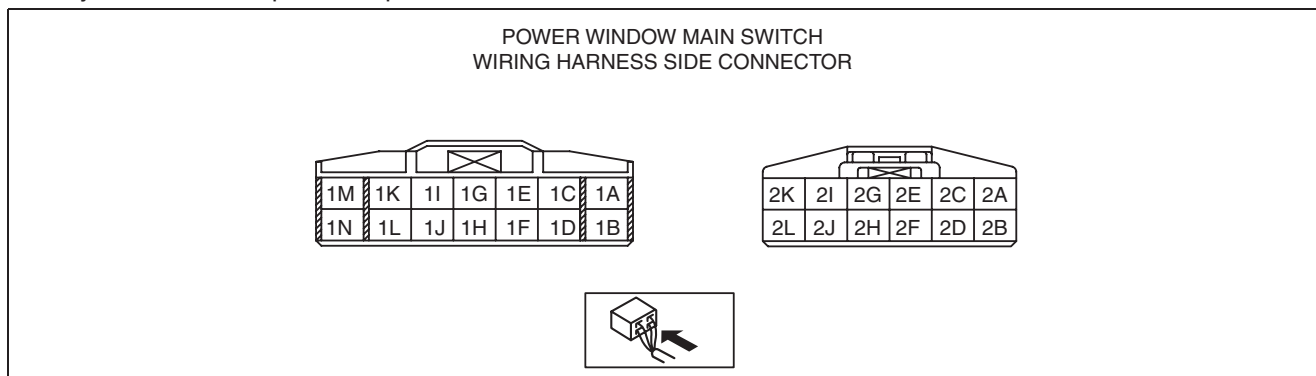
POWER WINDOW MAIN SWITCH INSPECTION [3HB]

id0912000021z3

- Turn the ignition switch to the ON position.
- Verify that the door glass (driver's side) can be operated for **approx. 43 s** after the ignition switch is turned to the LOCK position.
 - If the door glass (driver's side) cannot be operated for **approx. 43 s** after the ignition switch is turned to the LOCK position, or if the door glass (driver's side) can still be operated after **approx. 43 s**, replace the power window main switch.
- Disconnect the negative battery cable.
- Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
- Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
- Remove the switch panel. (See 09-17-63 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY [3HB].)
- Connect the power window main switch connector.

GLASS/WINDOWS/MIRRORS

8. Connect the negative battery cable.
9. Measure the voltage at each terminal.
 - If the voltage is not as specified in the terminal voltage table, inspect the parts under Inspection item(s) and related wiring harnesses.
10. If the system does not work normally even though the inspection items or related wiring harnesses do not have any malfunction, replace the power window main switch.



am2zzw0000510

Terminal Voltage Table (Reference)

Terminal	Signal name	Connected to	Measurement condition	Voltage (V)	Inspection item (s)
1A	Sensor ground	Power window motor (driver's side)	Under any condition	1.0 or less	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
1B	GND	Body ground	Under any condition	1.0 or less	<ul style="list-style-type: none"> Related wiring harness
1D	Pulse 1	Power window motor (driver's side)	Door glass (driver's side) operating	Alternates between 1.0 or less and 5	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
1F	Sensor power supply	Power window motor (driver's side)	Switch the ignition to ON	B+	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
			Switch the ignition to off	1.0 or less	
1H	Pulse 2	Power window motor (driver's side)	Door glass (driver's side) operating	Alternates between 1.0 or less and 5	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
1J	Window close signal	Power window motor (driver's side)	Door glass (driver's side) closing	B+	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
			Other	1.0 or less	
1K	Door open/close signal	BCM	Terminal used for communication therefore determination based on terminal voltage inspection not possible.		<ul style="list-style-type: none"> BCM Related wiring harness
1L	Window open signal	Power window motor (driver's side)	Door glass (driver's side) opening	B+	<ul style="list-style-type: none"> Power window motor (driver's side) Related wiring harness
			Other	1.0 or less	
1M	IG1	P.WIND 30 A fuse	Switch the ignition to ON	B+	<ul style="list-style-type: none"> P.WIND 30 A fuse Related wiring harness
			Switch the ignition to off	1.0 or less	
1N	Power supply	P.WIND 20 A fuse	Under any condition	B+	<ul style="list-style-type: none"> P.WIND 20 A fuse Related wiring harness
2A ^{*1}	Window open signal	Power window motor (passenger's side)	Door glass (passenger's side) opening	B+	<ul style="list-style-type: none"> Power window motor (passenger's side) Related wiring harness
2B ^{*1}			Other	1.0 or less	
2K ^{*2}	Window open signal	Power window motor (passenger's side)	Door glass (passenger's side) opening	B+	<ul style="list-style-type: none"> Power window motor (passenger's side) Related wiring harness
2L ^{*2}			Other	1.0 or less	

*1 : L.H.D.

*2 : R.H.D.

GLASS/WINDOWS/MIRRORS

POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION

id091200002200

Passenger's Side

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window subswitch. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Install in the reverse order of removal.

Rear

1. Disconnect the negative battery cable.
2. Remove the sail garnish. (See 09-16-7 SAIL GARNISH REMOVAL/INSTALLATION.)
3. Remove the rear door garnish. (See 09-16-21 REAR DOOR GARNISH REMOVAL/INSTALLATION.)
4. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
5. Remove the power window subswitch. (See 09-17-66 REAR DOOR TRIM DISASSEMBLY/ASSEMBLY.)
6. Install in the reverse order of removal.

POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION [4SD]

id091200002281

Passenger's Side

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window subswitch. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Install in the reverse order of removal.

Rear

1. Disconnect the negative battery cable.
2. Remove the sail garnish. (See 09-16-7 SAIL GARNISH REMOVAL/INSTALLATION.)
3. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window subswitch. (See 09-17-66 REAR DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Install in the reverse order of removal.

POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION [3HB]

id0912000022z3

Passenger's Side

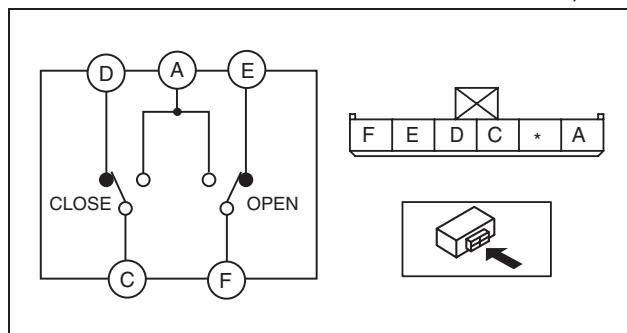
1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Remove the power window subswitch. (See 09-17-63 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY [3HB].)
5. Install in the reverse order of removal.

POWER WINDOW SUBSWITCH INSPECTION

id091200002300

Passenger's Side

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window subswitch. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Verify that the continuity is as indicated in the table using a tester.
 - If not as indicated in the table, replace the power window subswitch.



am2zzw0000247

GLASS/WINDOWS/MIRRORS

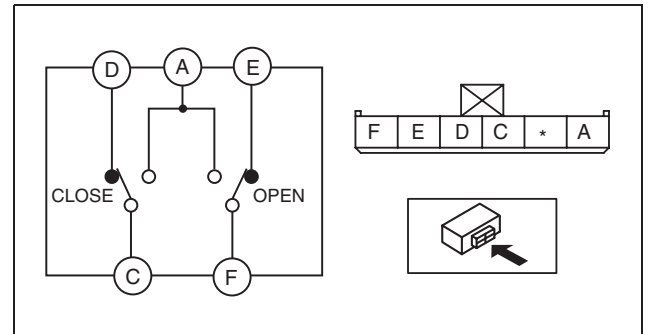
○—○ : Continuity

Switch Position	Terminal				
	A	C	D	E	F
CLOSE	○—○			○—○	
OFF		○—○		○—○	
OPEN	○—○	○—○			○—○

am2zzw0000213

Rear

1. Disconnect the negative battery cable.
2. Remove the sail garnish. (See 09-16-7 SAIL GARNISH REMOVAL/INSTALLATION.)
3. Remove the rear door garnish. (See 09-16-21 REAR DOOR GARNISH REMOVAL/INSTALLATION.)
4. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
5. Remove the power window subswitch. (See 09-17-66 REAR DOOR TRIM DISASSEMBLY/ASSEMBLY.)
6. Verify that the continuity is as indicated in the table using a tester.
 - If not as indicated in the table, replace the power window subswitch.



am2zzw0000247

○—○ : Continuity

Switch Position	Terminal				
	A	C	D	E	F
CLOSE	○—○			○—○	
OFF		○—○		○—○	
OPEN	○—○	○—○			○—○

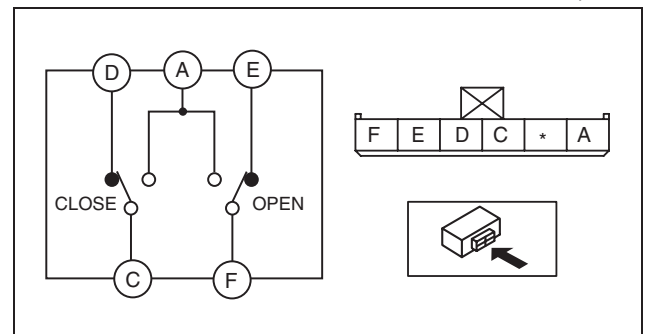
am2zzw0000213

POWER WINDOW SUBSWITCH INSPECTION [4SD]

id091200002381

Passenger's Side

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window subswitch. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Verify that the continuity is as indicated in the table using a tester.
 - If not as indicated in the table, replace the power window subswitch.



am2zzw0000247

GLASS/WINDOWS/MIRRORS

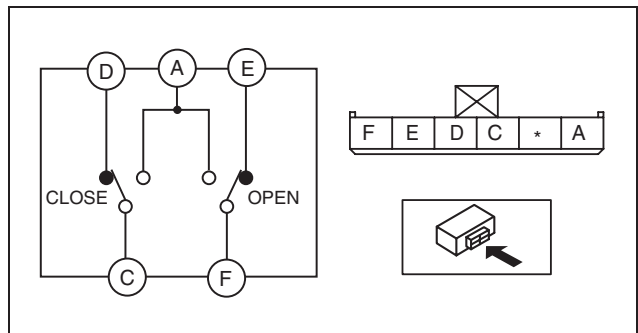
○—○ : Continuity

Switch Position	Terminal				
	A	C	D	E	F
CLOSE	○—○			○—○	
OFF		○—○		○—○	
OPEN	○—○	○—○			○—○

am2zzw0000213

Rear

1. Disconnect the negative battery cable.
2. Remove the sail garnish. (See 09-16-7 SAIL GARNISH REMOVAL/INSTALLATION.)
3. Remove the rear door trim. (See 09-17-65 REAR DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power window subswitch. (See 09-17-66 REAR DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Verify that the continuity is as indicated in the table using a tester.
 - If not as indicated in the table, replace the power window subswitch.



am2zzw0000247

○—○ : Continuity

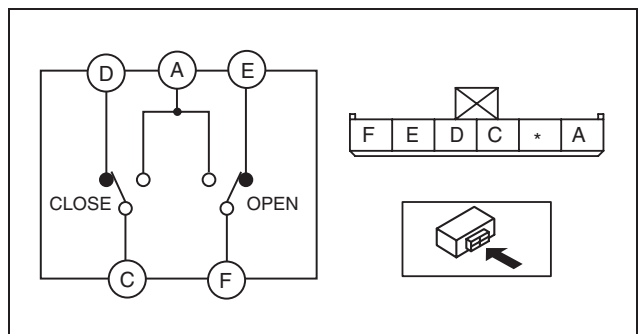
Switch Position	Terminal				
	A	C	D	E	F
CLOSE	○—○			○—○	
OFF		○—○		○—○	
OPEN	○—○	○—○			○—○

am2zzw0000213

POWER WINDOW SUBSWITCH INSPECTION [3HB]

id0912000023z3

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Remove the power window subswitch. (See 09-17-63 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY [3HB].)
5. Verify that the continuity is as indicated in the table using a tester.
 - If not as indicated in the table, replace the power window subswitch.



am2zzw0000247

GLASS/WINDOWS/MIRRORS

○—○ : Continuity

Switch Position	Terminal				
	A	C	D	E	F
CLOSE	○—○	○—○		○—○	○—○
OFF		○—○	○—○	○—○	○—○
OPEN	○—○	○—○	○—○		○—○

am2zzw0000213

POWER WINDOW SYSTEM INITIALIZATION PROCEDURE

id091200004100

Note

- If the following operations have been performed, initial setting is reset, and auto up/down and two-step down operation are disabled. Therefore, performing initial setting is necessary.
 - Negative battery cable is disconnected.
 - Power window main switch connector is disconnected.
 - Power window system power supply fuse is removed.

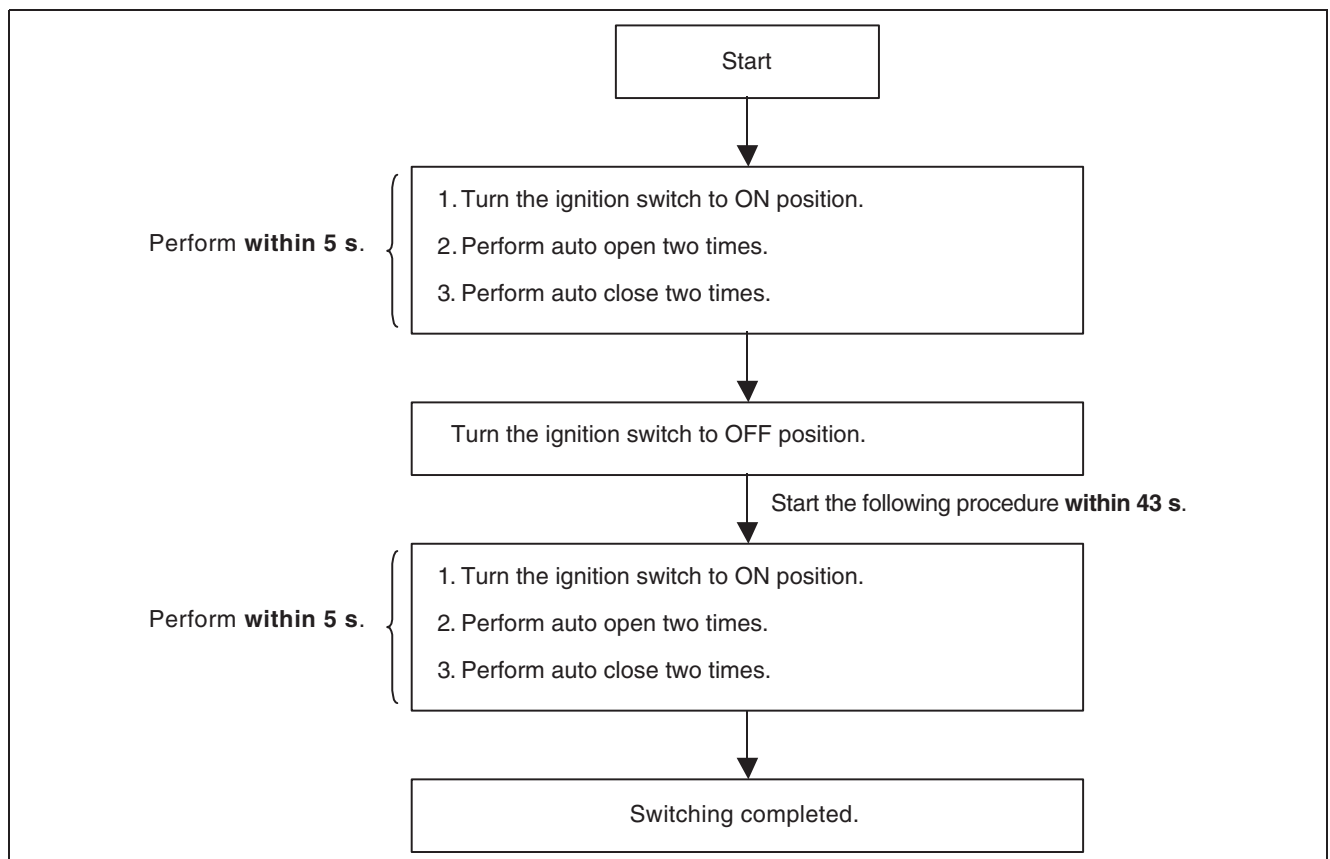
1. Turn the ignition switch to the ON position.
2. Press the driver's seat switch to fully open the door glass.
3. Pull up the driver's seat switch to the manual-up position to fully close the door glass and keep holding the switch up at the position for **approx. 2 s**.

TWO-STEP DOWN FUNCTION OPERATIVE/NON-OPERATIVE SWITCHING PROCEDURE

id091200004200

Note

- By following the procedure below, the two-step down function is switched to non-operative when it is operative, and to operative when it is non-operative.



acxuww00001670

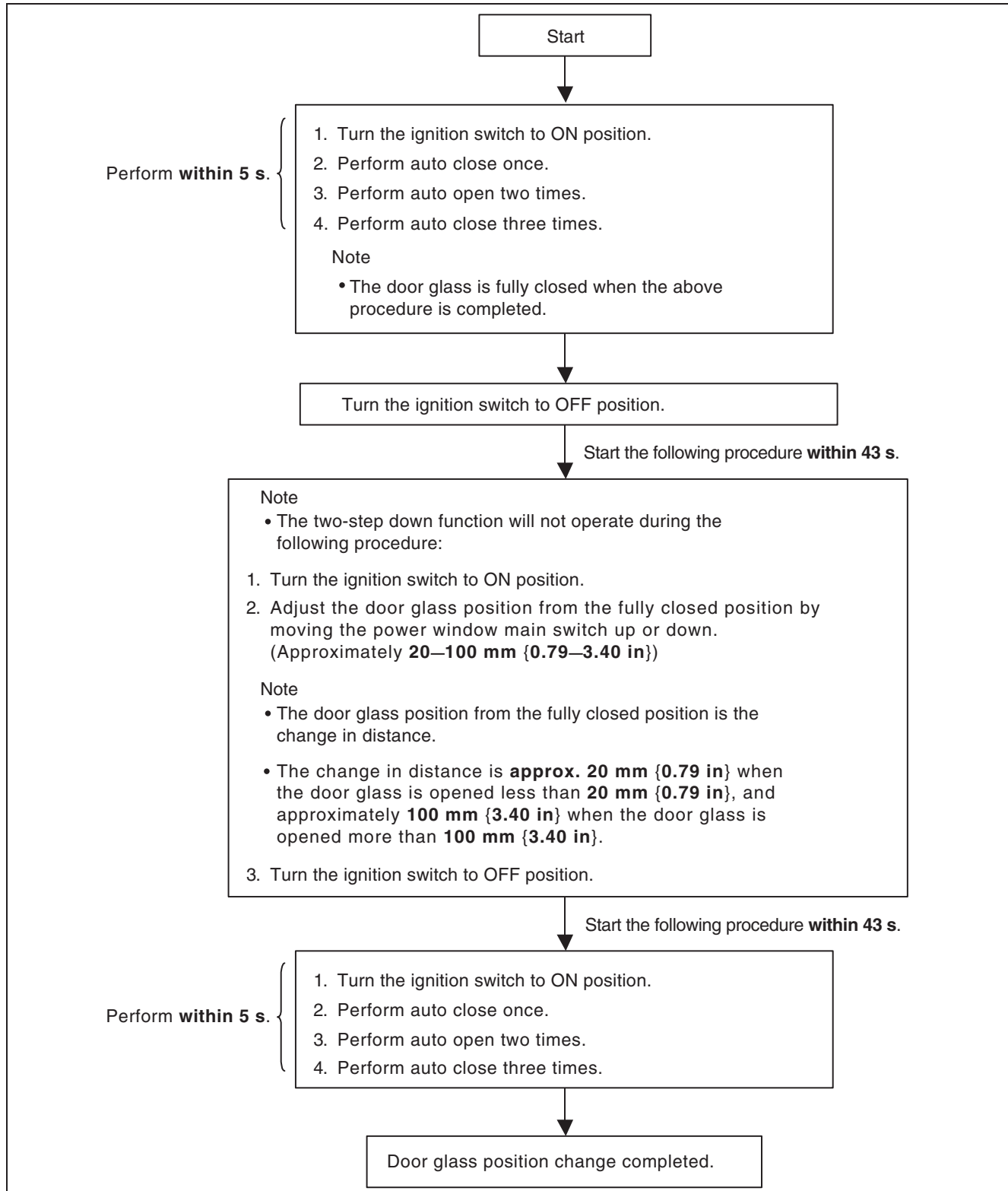
GLASS/WINDOWS/MIRRORS

DOOR GLASS POSITION CHANGE PROCEDURE

id091200004400

Note

- After performing the following procedure, verify that the two-step down function operates normally and the door glass position has changed. If the two-step down function does not operate or the door glass position has not changed, the procedure was not performed properly. Repeat the procedure from the beginning.



acxuuw00001671

GLASS/WINDOWS/MIRRORS

WINDSHIELD REMOVAL

id091200000500

1. Disconnect the negative battery cable.
2. Remove the following parts:
 - (1) Windshield wiper arm and blade (See 09-19-7 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
 - (2) Cowl grille (See 09-16-5 COWL GRILLE REMOVAL/INSTALLATION.)
 - (3) Cowl panel (See 09-10-23 COWL PANEL REMOVAL/INSTALLATION.)
 - (4) Rain sensor (vehicles with rain sensor) (See 09-19-28 RAIN SENSOR REMOVAL/INSTALLATION.)
 - (5) Rear view mirror (See 09-12-54 REARVIEW MIRROR REMOVAL.)
 - (6) A-pillar trim (See 09-17-42 A-PILLAR TRIM REMOVAL/INSTALLATION.)
 - (7) Sunvisor (See 09-17-80 SUNVISOR REMOVAL/INSTALLATION.)
 - (8) Assist handle (See 09-17-80 ASSIST HANDLE REMOVAL/INSTALLATION.)
 - (9) Interior light (See 09-18-43 INTERIOR LIGHT REMOVAL/INSTALLATION.)
3. Set the headliner out of the way.
4. Apply protective tape along the edge of the body.

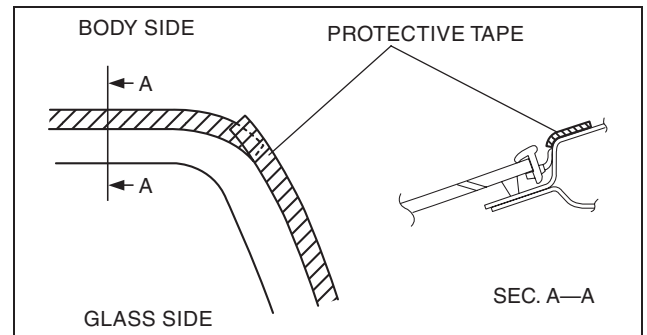
Note

- Overlap and adhere the protective tape to the corners to prevent damage.

5. Remove the windshield molding by pulling it outward.

Note

- If the windshield molding is difficult to remove, warm the windshield molding using a hot air blower.
- The windshield molding is a replacement part.



Not Reusing Windshield

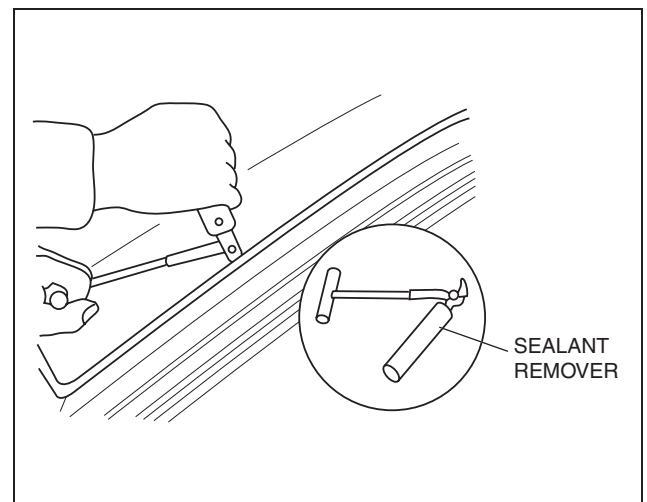
Note

- If it is difficult to cut sealant, use piano wire and follow the procedure under “Reusing Windshield”.

Warning

- Using piano wire with bare hands can cause injury. Always wear gloves when using piano wire.

1. Cut out the sealant all around the glass using a sealant remover.
2. Remove the windshield.



Reusing Windshield

Warning

- Using piano wire with bare hands can cause injury. Always wear gloves when using piano wire.

Caution

- Because the lens for rainfall/illumination level detection is integrated with the windshield, the auto

GLASS/WINDOWS/MIRRORS

wiper/auto light systems may not operate correctly if the lens is damaged. When removing the windshield, be careful not to damage the lens. If the lens is damaged, replace the windshield.

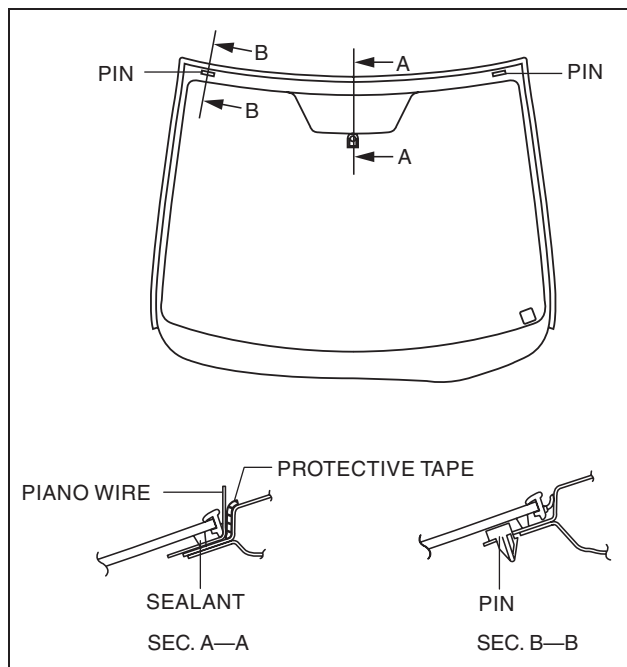
Note

- Before removing the windshield from the body, mark the position of the windshield by affixing tape to the windshield and body panel.

- Avoiding the pin on the inside of the vehicle, insert piano wire which has been cut to sufficient length.
- Wind each end of piano wire around a bar.

Note

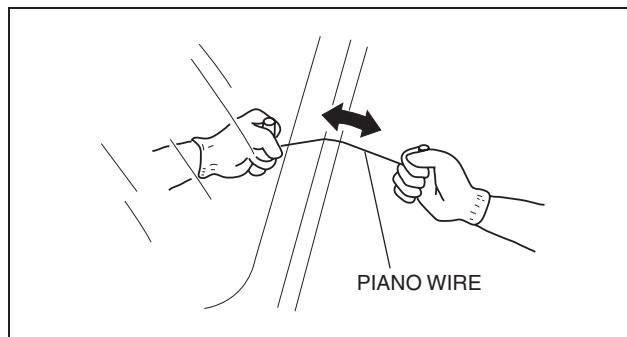
- Use a long sawing action to spread the work over the whole length of piano wire to prevent it from breaking due to localized heating.



- Secure one end of piano wire, and while pulling the other end, cut the sealant around the windshield.
- Pinch the pin from the inside of the vehicle and detach it.
- Remove the windshield.
- If the pin is damaged, remove the pin.

Note

- Before removing the pin from the windshield glass, place an alignment mark on the windshield.



WINDSHIELD INSTALLATION

id091200000700

Warning

- Using a utility knife with bare hands can cause injury. Always wear gloves when using a utility knife.

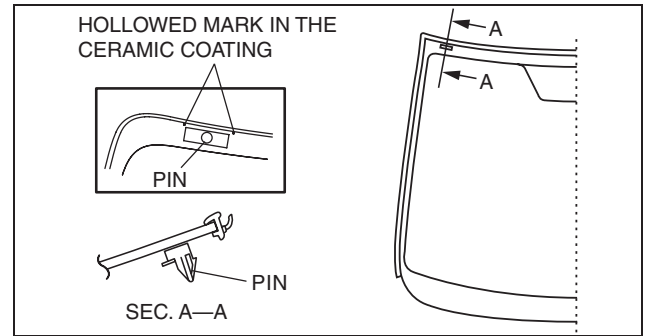
Caution

- If a door is opened or closed when all the window glass is closed, the resulting change in air pressure could cause the sealant to crack preventing the proper installation of the windshield. Keep the door glass opened until the windshield installation is completed.
- If the rain sensor is replaced with a new one, the reflection rate when the ignition switch is turned to the ON position the first time is memorized as a condition that no rainfall is on the windshield. Therefore, remove water and dirt from the windshield before turning the ignition switch to the ON position. Perform the rain sensor initial setting in the following cases: (See 09-19-31 RAIN SENSOR INITIAL SETTING.)
 - The windshield is replaced and the rain sensor is reused.
 - The auto wiper system does not operate correctly after the windshield is installed.

- Remove the sealant along the perimeter of the glass using a utility knife. (When reusing the glass)

GLASS/WINDOWS/MIRRORS

- Clean and degrease an **approx. 50 mm {2.0 in}** wide strip along the perimeter of the windshield.
- Inspect the glass for cracks. If it is cracked, chamfer it using sandpaper.
- Align the alignment marks made before removal and install the pin to the windshield referring to the figure. (Reusing glass, pin removed)



am2zzw0000209

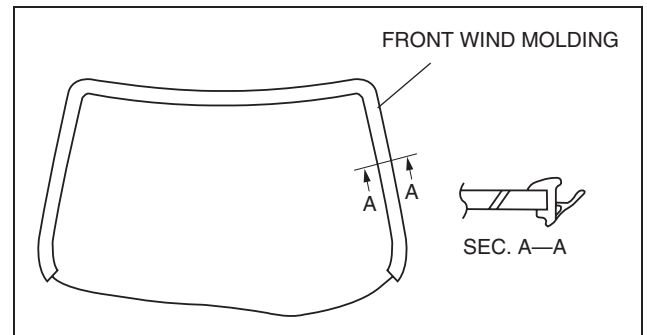
- Install the windshield molding.
- Apply glass primer on the glass as shown in the figure, then allow it to dry for **approx. 30 min.**

Caution

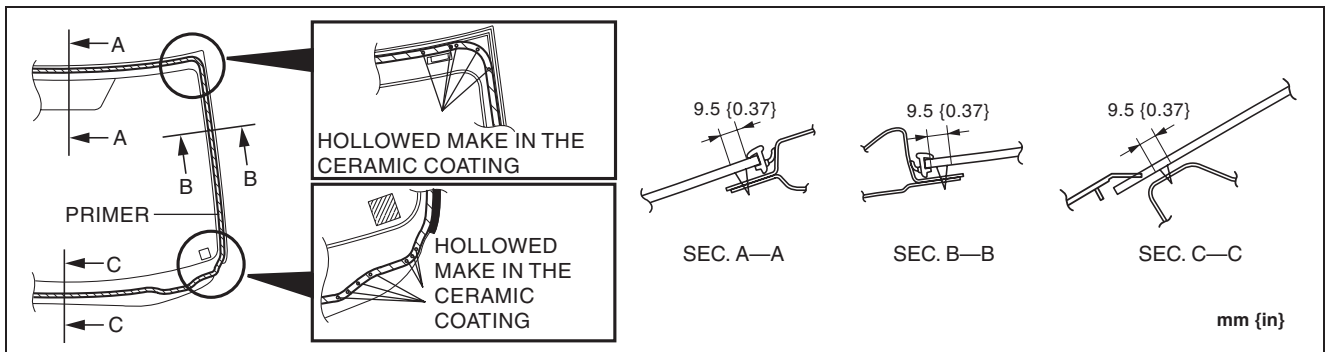
- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.

Note

- Apply primer to the hollowed marks in the ceramic coating.



am2zzw0000209

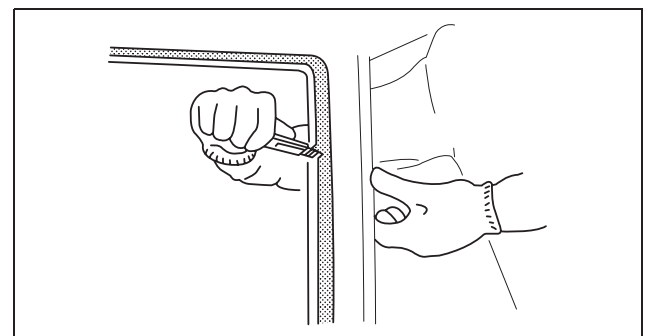


am2zzw0000247

- Cut away the old sealant using a utility knife so that **1—2 mm {0.04—0.07 in}** thickness of sealant remains along the perimeter of the frame.
- If the sealant has come off completely in any one place, apply some primer after degreasing, and allow it **approx. 30 min** to dry. Then apply **2 mm {0.08 in}** thickness of new sealant.

Caution

- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.



avejiw00001067

- Clean and degrease along the perimeter of the bonding area on the body.
- Apply body primer on the body as shown in the figure, then allow it to dry for **approx. 30 min.**

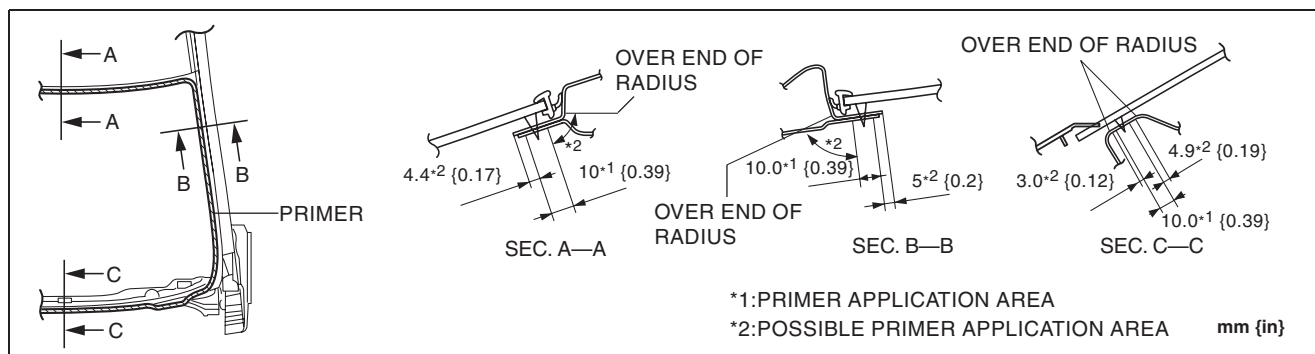
Caution

- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.

GLASS/WINDOWS/MIRRORS

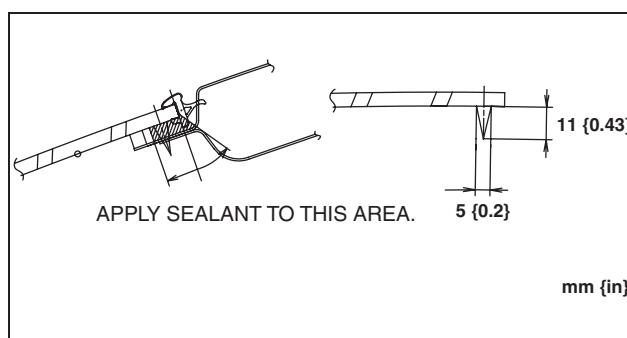
Note

- Apply primer to the hollowed marks in the ceramic coating.



am2zzw0000247

11. Apply sealant to the area of the glass surface as shown in the figure.
12. Insert the positioning pins to the body and install the windshield.



am2zzw0000247

13. Verify that the clearance between the A-pillar and the roof is within the range shown in the figure, and press along the perimeter of the glass.
14. Install the headliner.
15. Install the following parts:

- (1) Interior light (See 09-18-43 INTERIOR LIGHT REMOVAL/INSTALLATION.)
- (2) Assist handle (See 09-17-80 ASSIST HANDLE REMOVAL/INSTALLATION.)
- (3) Sunvisor (See 09-17-80 SUNVISOR REMOVAL/INSTALLATION.)
- (4) A-pillar trim (See 09-17-42 A-PILLAR TRIM REMOVAL/INSTALLATION.)
- (5) Rearview mirror (See 09-12-57 REARVIEW MIRROR INSTALLATION.)
- (6) Rain sensor (vehicles with rain sensor) (See 09-19-28 RAIN SENSOR REMOVAL/INSTALLATION.)
- (7) Cowl panel (See 09-10-23 COWL PANEL REMOVAL/INSTALLATION.)
- (8) Cowl grille (See 09-16-5 COWL GRILLE REMOVAL/INSTALLATION.)
- (9) Windshield wiper arm and blade (See 09-19-7 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION.)

16. Allow the sealant to harden completely.

Sealant hardening time: 24 h

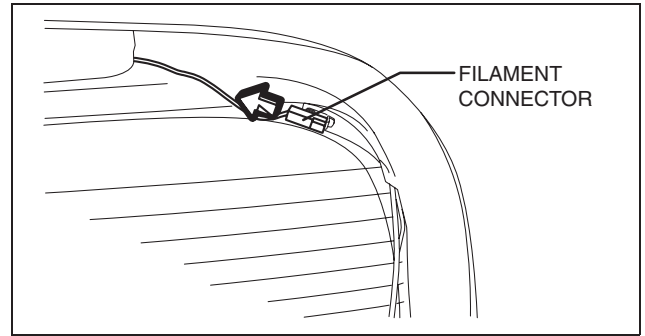
REAR WINDOW GLASS REMOVAL

id091200000600

1. Disconnect the negative battery cable.
2. Remove the following parts:
 - (1) Rear wiper arm and blade (See 09-19-17 REAR WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
 - (2) Liftgate lower trim (See 09-17-79 LIFTGATE LOWER TRIM REMOVAL/INSTALLATION.)
 - (3) Rear spoiler (See 09-16-17 REAR SPOILER REMOVAL.)
 - (4) High-mount brake light (See 09-18-28 HIGH-MOUNT BRAKE LIGHT REMOVAL/INSTALLATION.)

GLASS/WINDOWS/MIRRORS

3. Disconnect the filament connector.

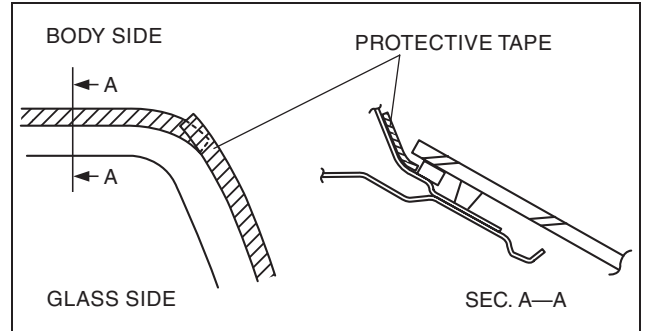


am2zzw0000439

4. Apply protective tape along the edge of the body.

Note

- Overlap and adhere the protective tape to the corners to prevent damage.



am2zzw0000210

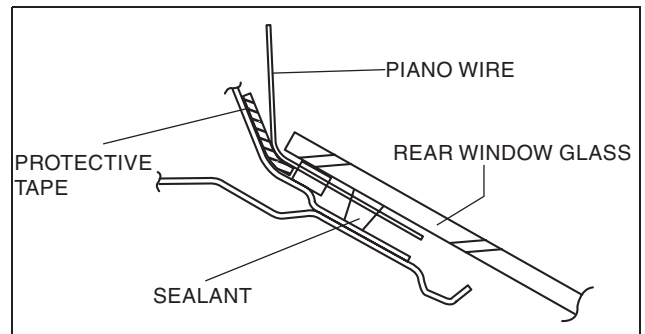
5. Avoiding the pin on the inside of the vehicle, insert piano wire which has been cut to sufficient length.

Warning

- **Using piano wire with bare hands can cause injury. Always wear gloves when using piano wire.**

Note

- Before removing the rear window glass from the body, mark the position of the glass by affixing tape to the glass and body panel.



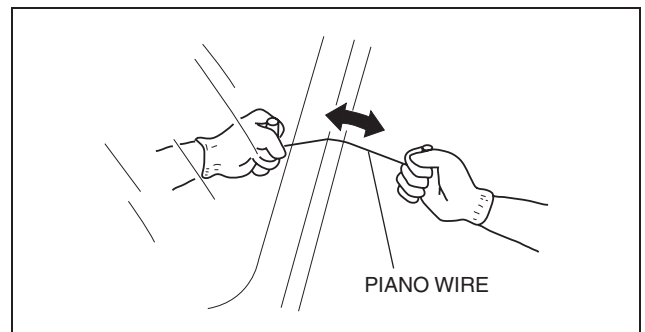
am2zzw0000439

6. Wind each end of piano wire around a bar.

Note

- Use a long sawing action to spread the work over the whole length of piano wire to prevent it from breaking due to localized heating.

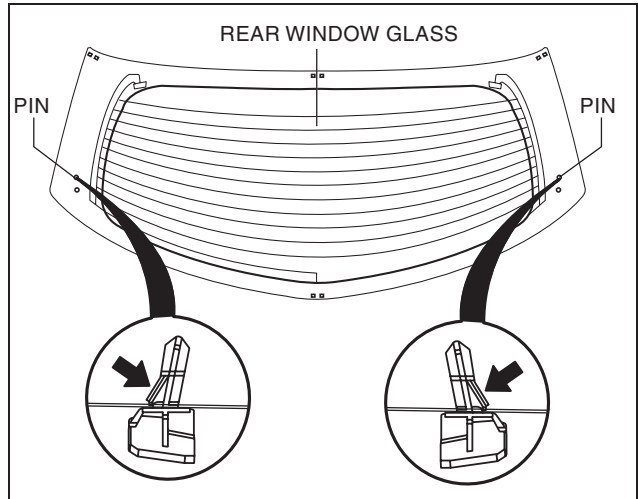
7. Secure one end of piano wire, and while pulling the other end, cut the sealant around the rear window glass.



am2zzw0000210

GLASS/WINDOWS/MIRRORS

8. Pinch the pin from the inside of the vehicle and detach it.
9. Remove the rear window glass.

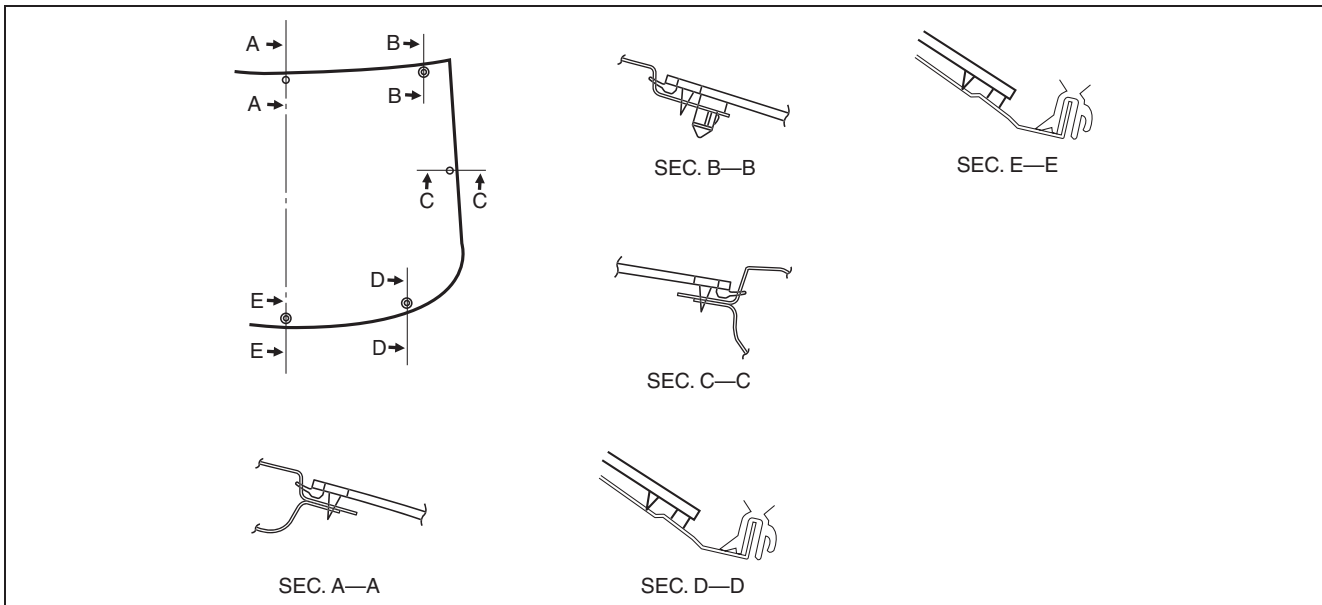


am2zzw0000439

id091200000681

REAR WINDOW GLASS REMOVAL [4SD]

1. Disconnect the negative battery cable.
2. Remove the following parts:
 - (1) Rear seat back (See 09-13-26 REAR SEAT BACK REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].)
 - (2) Rear scuff plate (See 09-17-58 REAR SCUFF PLATE REMOVAL/INSTALLATION.)
 - (3) Tire house trim (See 09-17-66 TIRE HOUSE TRIM REMOVAL/INSTALLATION [4SD].)
 - (4) C-pillar trim (See 09-17-46 C-PILLAR TRIM REMOVAL/INSTALLATION.)
 - (5) Rear package trim (See 09-17-68 REAR PACKAGE TRIM REMOVAL/INSTALLATION [4SD].)
3. Disconnect the filament connector.
4. Set the headliner out of the way.
5. Apply protective tape along the edge of the body.
6. Cut the rear window glass molding lip using a razor.



am2ccw0000021

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

Note

- The rear window glass molding is a replacement part.

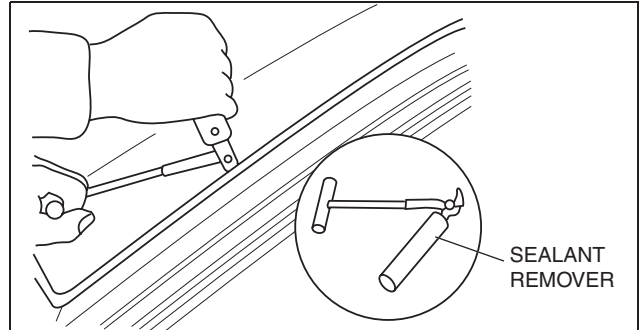
GLASS/WINDOWS/MIRRORS

Not Reusing Rear Window Glass

Note

- For the areas of the sealant that are difficult to cut, use the piano wire and follow the procedure under "Reusing Rear Window Glass".

1. Cut out the sealant all around the glass using a sealant remover.
2. Remove the sealant by pulling it off.
3. Remove the rear window glass.



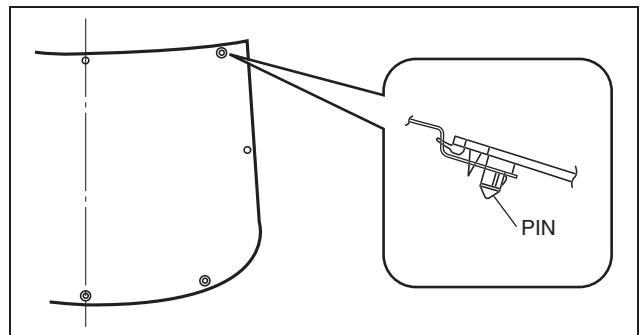
am3zzw0000282

Reusing Rear Window Glass

Note

- Before removing the rear window glass from the body, mark the position of the glass by affixing tape to the glass and body panel.

1. Make a hole through the sealant from the inside of the vehicle using an awl, avoiding the pins.



am2ccw0000021

2. Pass the piano wire, cut to sufficient length, through the hole.

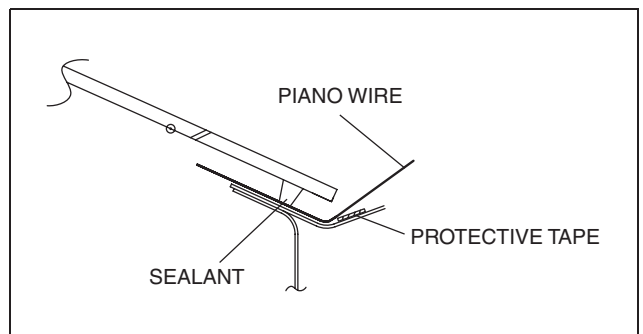
Warning

- Using the piano wire with bare hands can cause injury. Always wear gloves when using the piano wire.**

3. Wind each end of the piano wire around a bar.

Note

- Use a long sawing action to spread the work over the whole length of the piano wire to prevent it from breaking due to localized heating.



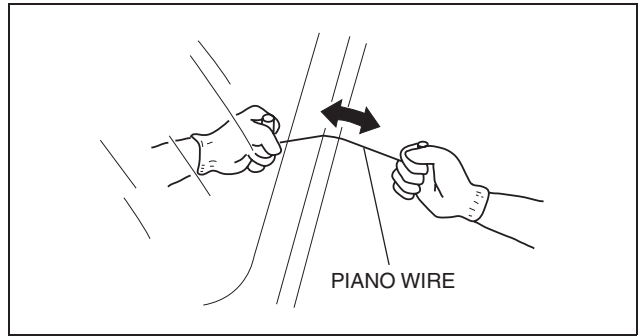
am2ccw0000027

GLASS/WINDOWS/MIRRORS

- Fix one end of the piano wire, and while pulling the other end, cut the sealant around the rear window glass.

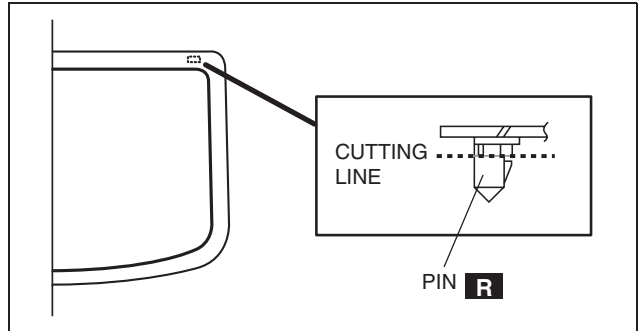
Note

- As the upper part of the pin adheres to the sealant, cut it using the piano wire.



am2ccw0000027

- Cut the pins out.
- Remove the rear window glass.
- Mark the seating positions of the pins and remove the pins from the rear window glass.
- Remove the rear window glass molding from the rear window glass.



am3zzw0000283

REAR WINDOW GLASS INSTALLATION

id09120000800

Warning

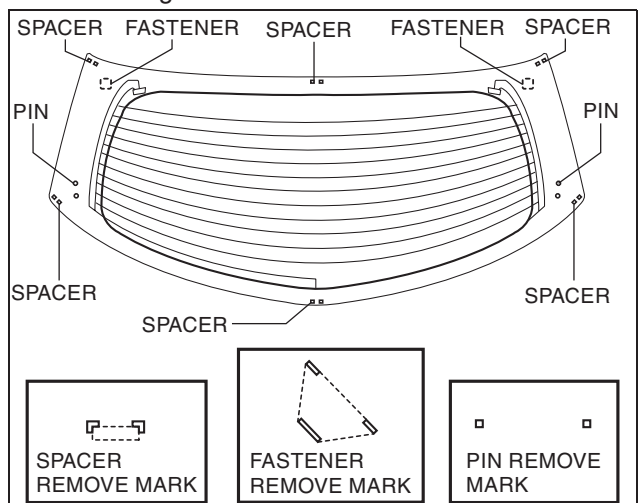
- Using a utility knife with bare hands can cause injury. Always wear gloves when using a utility knife.

Caution

- Proper installation of the glass may be difficult if sealant is cracked or the glass is pushed out by air pressure when a door is opened/closed with all the window glass closed. Keep the door glass open until the rear window glass installation is completed.

- Remove sealant along the perimeter of the glass using a utility knife or scraper. (When reusing the glass)
- Clean and degrease an **approx. 50 mm {2.0 in}** wide strip along the perimeter of the glass.
- Inspect the glass for cracks. If it is cracked, chamfer it using sandpaper.
- Install the spacers, fasteners, and pins to the glass as shown in the figure.

When reusing the glass, align it with the alignment mark placed before the glass was removed.



am2zzw0000211

GLASS/WINDOWS/MIRRORS

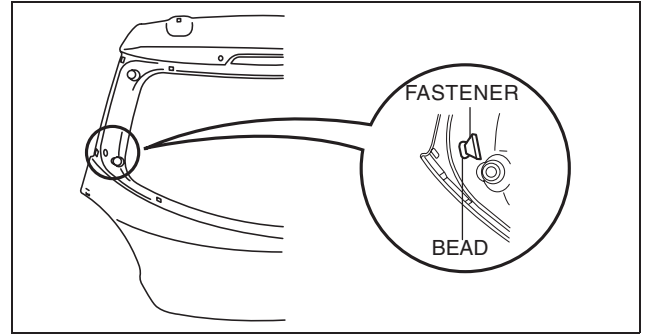
5. Install the fastener to the bead on the body side.
6. Apply glass primer on the glass as shown in the figure then allow it to dry for **approx. 30 min.**

Caution

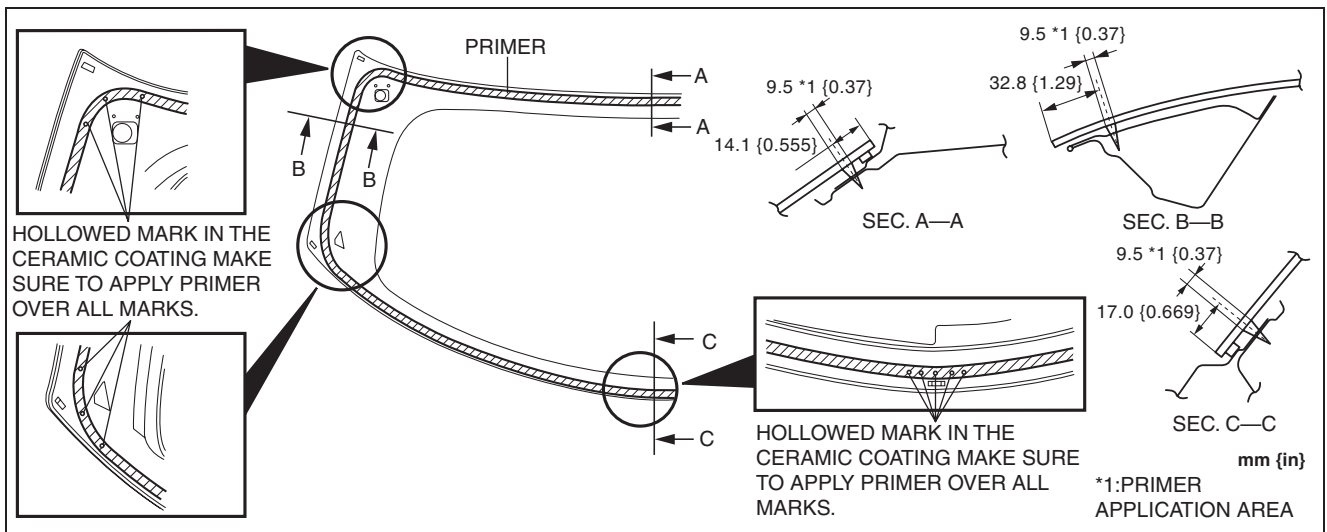
- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.

Note

- Apply primer to the hollowed marks in the ceramic coating.



am2zzw0000211

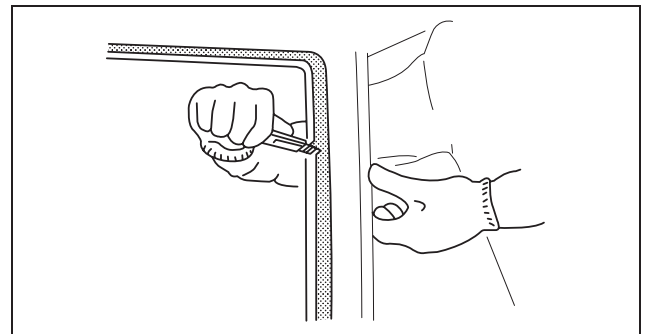


am2zzw0000247

7. Cut away the old sealant using a utility knife or scraper so that **1—2 mm {0.04—0.07 in}** thickness of sealant remains along the perimeter of the frame.
8. Clean and degrease along the perimeter of the bonding area on the body.
9. If the sealant has come off completely in any one place, apply some primer, and allow it to dry for **approx. 30 min.**

Caution

- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.



am2zzw0000424

10. Apply body primer on the body as shown in the figure, then allow it to dry for **approx. 30 min.**

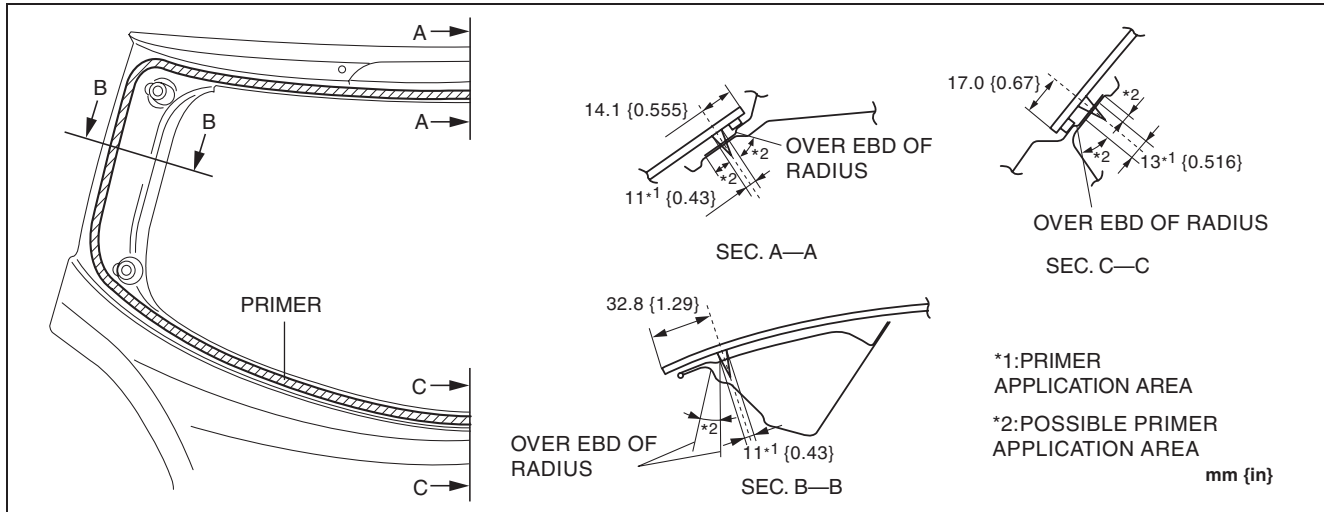
Caution

- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.

Note

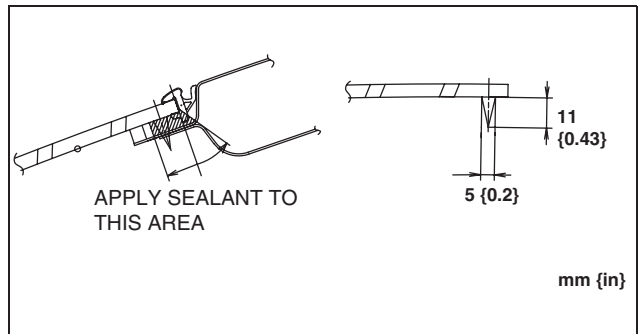
- Apply primer to the hollowed marks in the ceramic coating.

GLASS/WINDOWS/MIRRORS

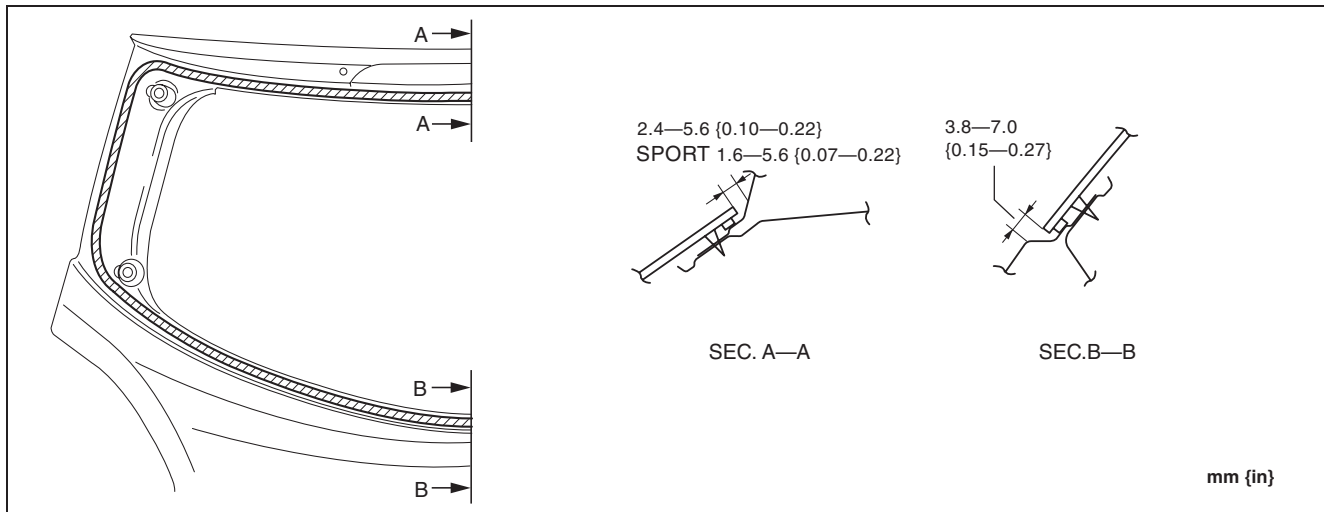


am2zzw0000247

11. Apply sealant to the area of the glass surface as shown in the figure.
12. Install the rear window glass.
13. Verify that the gap at the upper and lower parts of the glass is within the specification shown in the figure, then press along the perimeter of the glass.



am2zzw0000248



am2zzw0000248

14. Connect the filament connector.
15. Install the following parts:
 - (1) High-mount brake light (See 09-18-28 HIGH-MOUNT BRAKE LIGHT REMOVAL/INSTALLATION.)
 - (2) Rear spoiler (See 09-16-19 REAR SPOILER INSTALLATION.)
 - (3) Liftgate lower trim (See 09-17-79 LIFTGATE LOWER TRIM REMOVAL/INSTALLATION.)
 - (4) Rear wiper arm and blade (See 09-19-17 REAR WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
16. Allow the sealant to harden completely.

Sealant hardening time: 24 h

GLASS/WINDOWS/MIRRORS

REAR WINDOW GLASS INSTALLATION [4SD]

id09120000881

Caution

- Proper installation of the rear window glass may be difficult if sealant is cracked or the glass is pushed out by air pressure when a door is opened/closed with all the window glass closed. Leave all the windows open until the rear window glass is installed completely.

1. Cut away the old sealant using a razor so that a 1—2 mm {0.04—0.07 in} thickness of sealant remains along the perimeter of the frame.

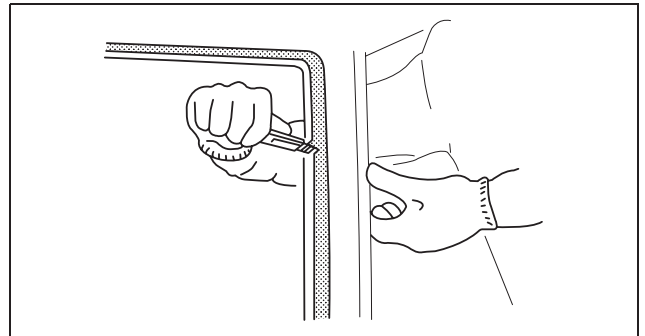
Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

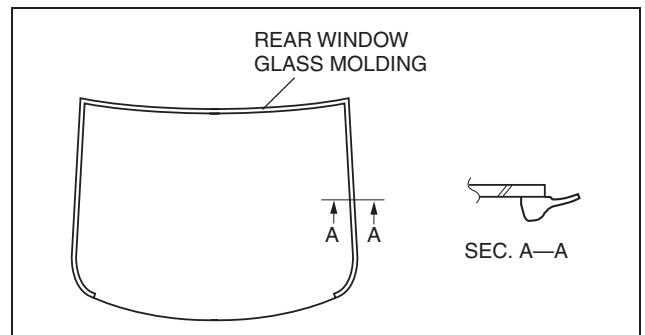
2. If the sealant has come off completely in any one place, apply some primer after degreasing, and allow it to dry for **approx. 30 min.** Then apply a **2 mm {0.08 in}** thickness of sealant.
3. Clean and degrease the perimeter **approx. 50 mm {1.97 in}** from the glass end and the bonding area on the body.
4. If installing a reused rear window glass, install the rear window glass molding according to the following procedure.
 - (1) Clean and degrease the rear window glass molding installation area of the rear window glass.
 - (2) Apply the glass primer to the rear window glass molding installation area of the rear window glass.
5. Apply glass primer on the rear window glass, and body primer on the rear window glass molding as shown in the figure. Allow it to dry for **approx. 30 min.**

Caution

- Keep the area free of dirt and grease, and do not touch the surface. Otherwise, the primer may not properly bond to the surface of the glass and body, which may cause leakage.

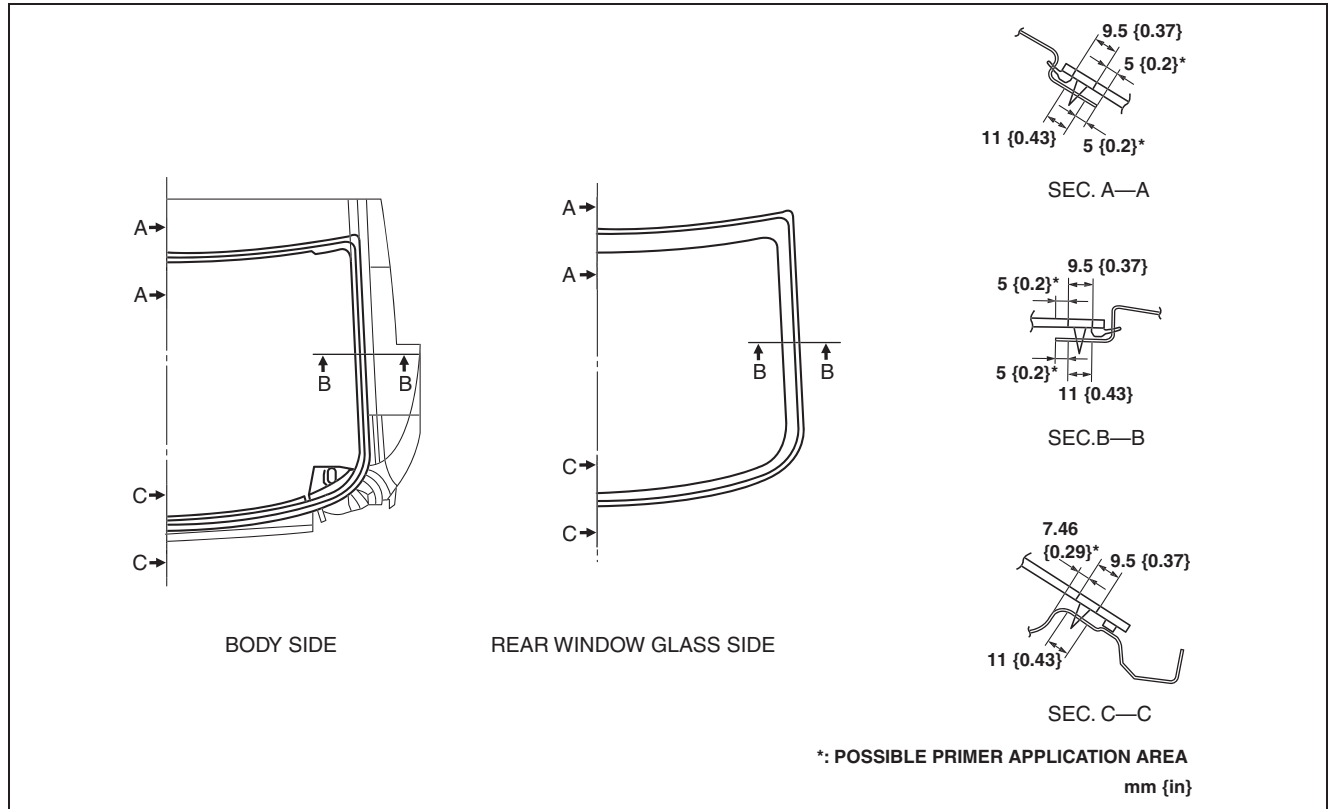


am3zzw0000283



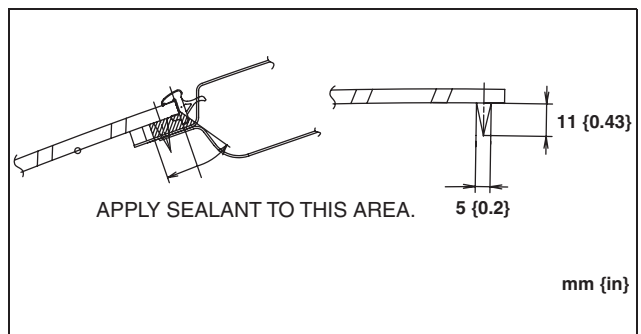
am2ccw0000020

GLASS/WINDOWS/MIRRORS



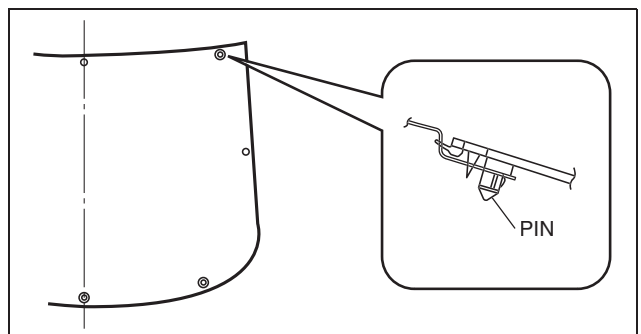
am2ccw0000020

6. Apply sealant to the glass surface as shown in the figure.
7. Insert the positioning pins into the body, then install the rear window.



am2zzw0000247

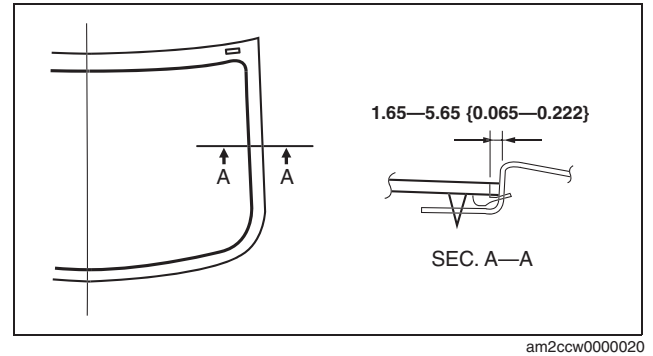
8. Press the rear window pins to engage the tabs to the body.



am2ccw0000020

GLASS/WINDOWS/MIRRORS

9. Press completely along the perimeter of the glass so that the measurement of the molding lip gap is within the specification.
10. Connect the filament connector.
11. Install the following parts:
 - (1) Rear package trim (See 09-17-68 REAR PACKAGE TRIM REMOVAL/INSTALLATION [4SD].)
 - (2) C-pillar trim (See 09-17-46 C-PILLAR TRIM REMOVAL/INSTALLATION.)
 - (3) Tire house trim (See 09-17-66 TIRE HOUSE TRIM REMOVAL/INSTALLATION [4SD].)
 - (4) Rear scuff plate (See 09-17-58 REAR SCUFF PLATE REMOVAL/INSTALLATION.)
 - (5) Rear seat back (See 09-13-26 REAR SEAT BACK REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].)
12. Allow the sealant to harden completely.



Sealant hardening time: 24 h

13. Apply soapy water to the rear window glass molding side and blow air from the interior, then verify that there are no bubbles or air leakage.
 - If there are any bubbles or air leakage, repair the damaged part of the sealant and verify it again.

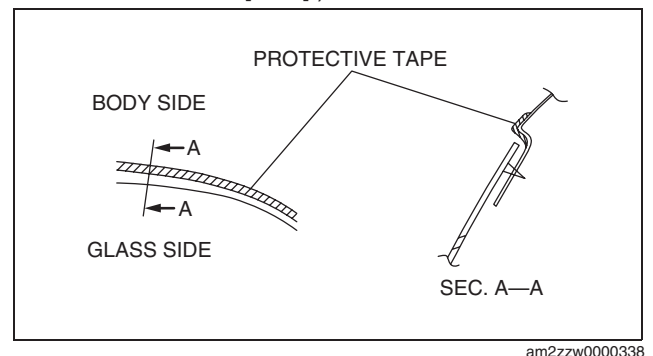
QUARTER WINDOW GLASS REMOVAL [3HB]

id0912000025z3

Warning

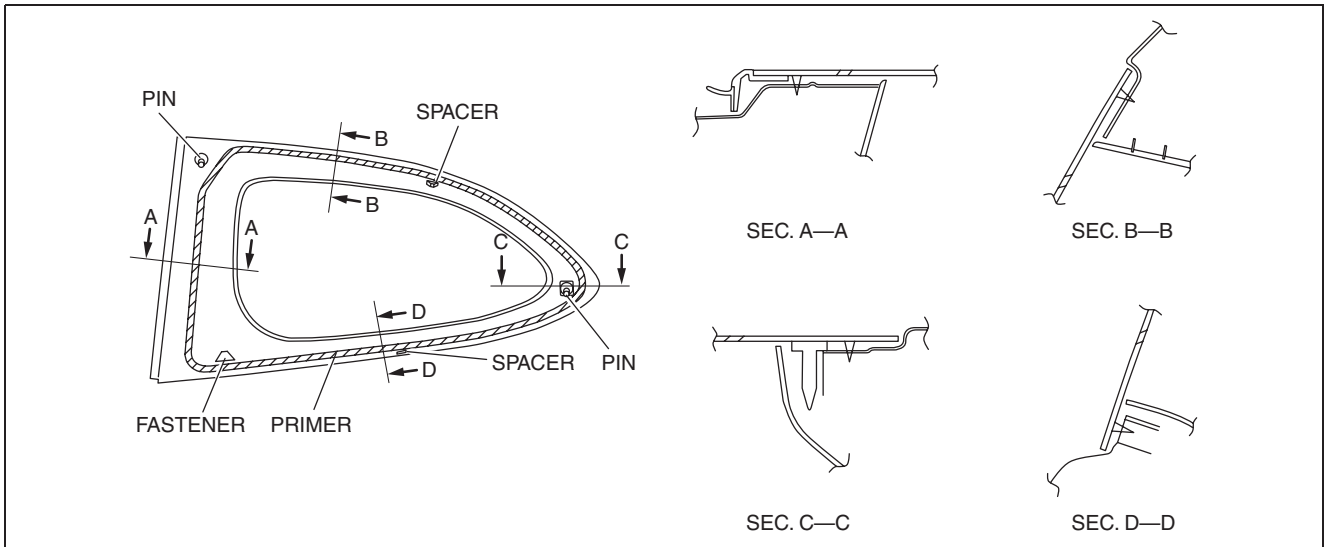
- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.
- Using the piano wire with bare hands can cause injury. Always wear gloves when using the piano wire.

1. Remove the following parts:
 - (1) Partially peel back the seaming welt.
 - (2) Rear seat cushion (See 09-13-27 REAR SEAT BACK REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
 - (3) Rear seat back (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
 - (4) Lower anchor installation bolts on the rear seat belt. (See 08-11-7 REAR SEAT BELT REMOVAL/INSTALLATION [3HB].)
 - (5) Trunk end trim (See 09-17-75 TRUNK END TRIM REMOVAL/INSTALLATION.)
 - (6) Trunk side trim (See 09-17-73 TRUNK SIDE TRIM REMOVAL/INSTALLATION [3HB].)
 - (7) B-pillar upper trim (See 09-17-45 B-PILLAR UPPER TRIM REMOVAL/INSTALLATION [3HB].)
 - (8) C-pillar trim (See 09-17-52 C-PILLAR TRIM REMOVAL/INSTALLATION [3HB].)
2. Apply protective tape along the edge of the body and the quarter window glass.



GLASS/WINDOWS/MIRRORS

- Cut out the sealant all around the glass from inside the vehicle using a sealant remover and the piano wire.



am2zzw0000338

- Pull the quarter window glass outward and detach the pins from the body.

Note

- The pin is a replacement part.

QUARTER WINDOW GLASS INSTALLATION [3HB]

id0912000026z3

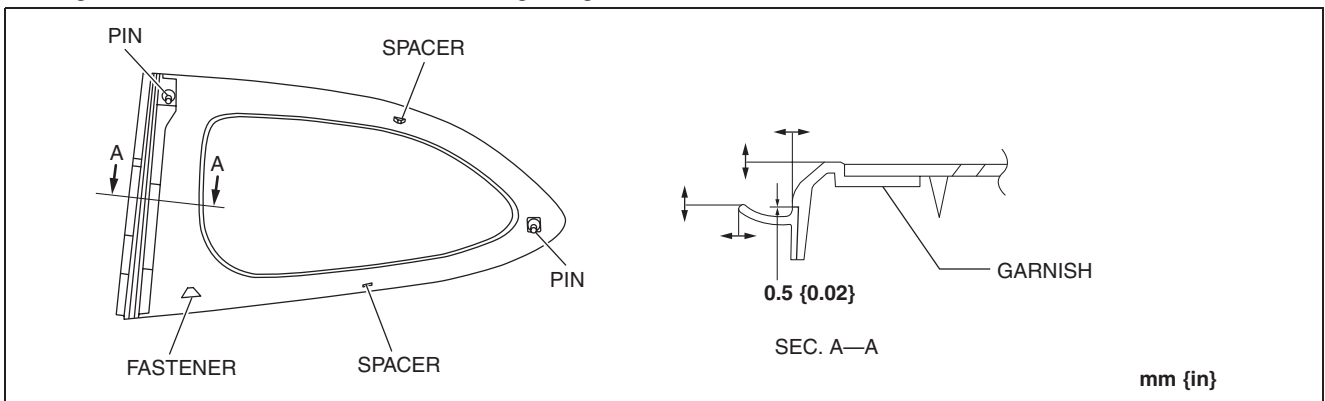
Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

Caution

- If a door is opened or closed when all the window glass is closed, the resulting change in air pressure could cause the sealant to crack preventing the proper installation of the glass. Keep the door glass open until the quarter window glass installation is completed.

- Remove sealant along the perimeter of the glass using a razor or scraper. (when reusing the glass)
- Clean and degrease the ceramic part along the perimeter of the glass.
- Inspect the glass for cracks. If it is cracked, chamfer it using sandpaper.
- If the glass is reused, attach the pins, spacers and garnish to the glass as shown in the figure. Align with the alignment marks marked before removing the glass.



am2zzw0000347

- Apply glass primer along the hollowed marks in the ceramic coating on the new glass, along the sealant tracks on the reused glass, then allow it to dry for **approx. 30 min.**

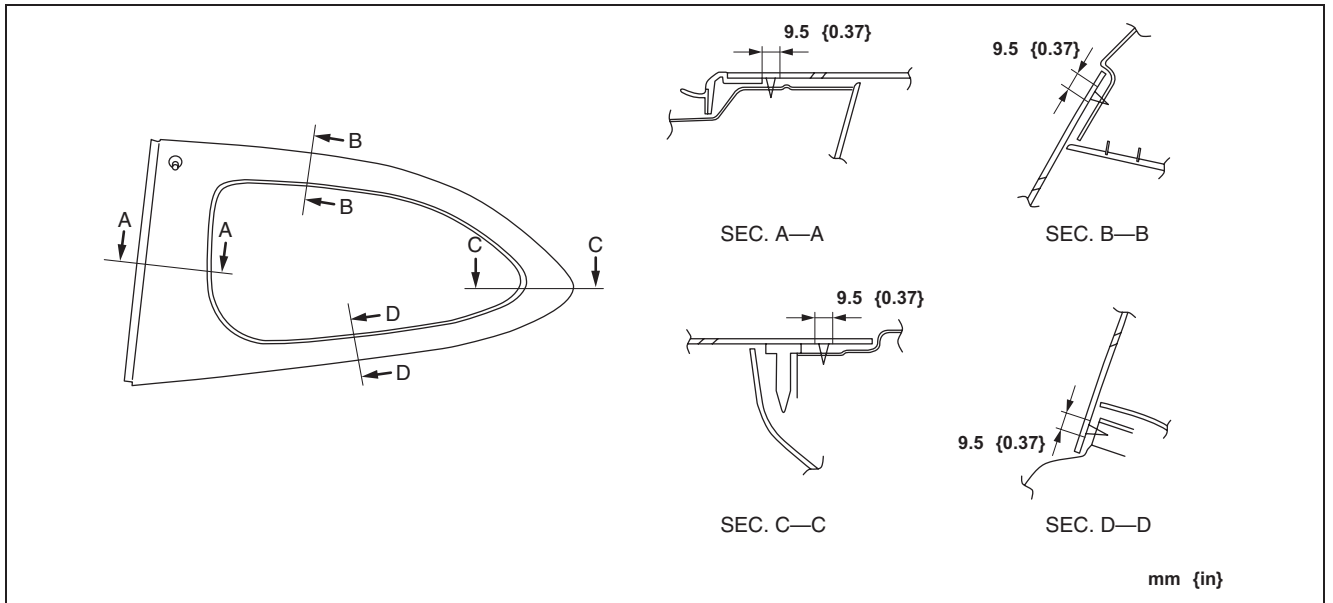
Caution

- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.

GLASS/WINDOWS/MIRRORS

Note

- Apply primer to the hollowed marks in the ceramic coating.

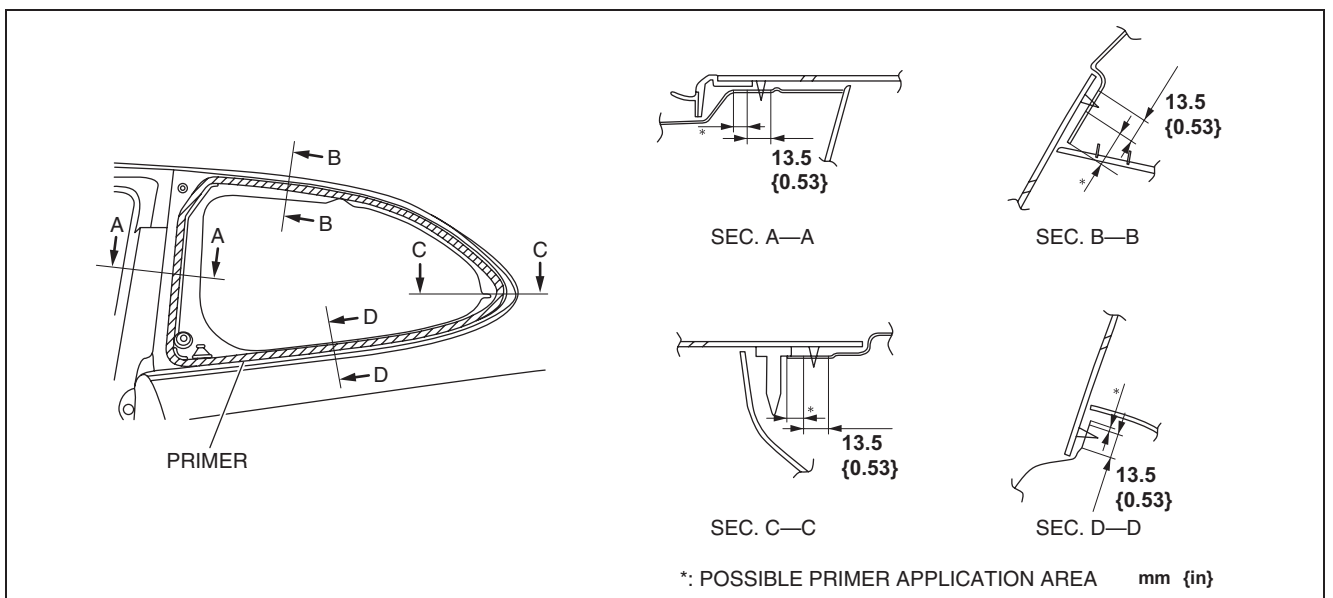


am2zzw0000347

6. Cut away the old sealant using a razor or scraper so that **1—2 mm {0.04—0.07 in}** thickness of sealant remains along the perimeter of the frame.
7. If the sealant has come off completely in any one place, apply some primer after degreasing, and allow it **approx. 30 min** to dry. Then apply **2 mm** thickness of new sealant.
8. Clean and degrease the bonding surface along the perimeter of the body.
9. Apply body primer on the body as shown in the figure, then allow it to dry for **approx. 30 min**.

Caution

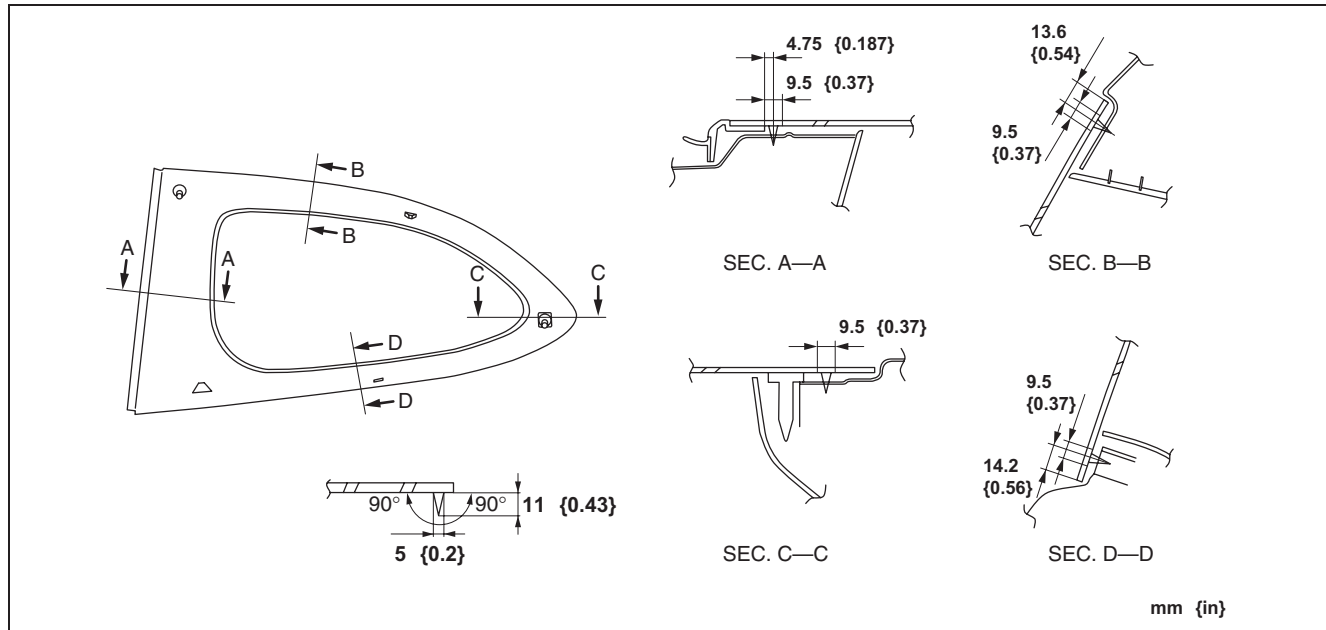
- To prevent weakening of the primer adhesion, keep the bonding surface free of dirt, moisture, and grease. Do not touch the surface with your hand.



am2zzw0000347

GLASS/WINDOWS/MIRRORS

10. After the primer has dried, apply **13.5 mm {0.53 in}** in thickness, **5 mm {0.2 in}** in width of sealant using a sealant gun. Where it is not applied properly, correctly apply it using a spatula.



am2zzw0000347

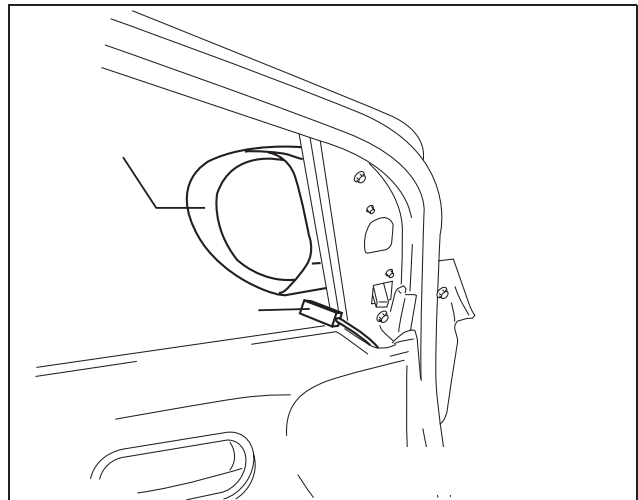
11. Insert the positioning pins to the body and install the quarter window glass.
12. Install the following parts:
- (1) B-pillar upper trim (See 09-17-45 B-PILLAR UPPER TRIM REMOVAL/INSTALLATION [3HB].)
 - (2) C-pillar trim (See 09-17-52 C-PILLAR TRIM REMOVAL/INSTALLATION [3HB].)
 - (3) Trunk side trim (See 09-17-73 TRUNK SIDE TRIM REMOVAL/INSTALLATION [3HB].)
 - (4) Lower anchor installation bolts on the rear seat belt. (See 08-11-7 REAR SEAT BELT REMOVAL/INSTALLATION [3HB].)
 - (5) Trunk end trim (See 09-17-75 TRUNK END TRIM REMOVAL/INSTALLATION.)
 - (6) Rear seat back (See 09-13-27 REAR SEAT BACK REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
 - (7) Rear seat cushion (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
 - (8) Partially peel back the seaming welt.
13. Allow the sealant to harden completely.

Sealant hardening time: 24 h

POWER OUTER MIRROR REMOVAL/INSTALLATION

id091200002400

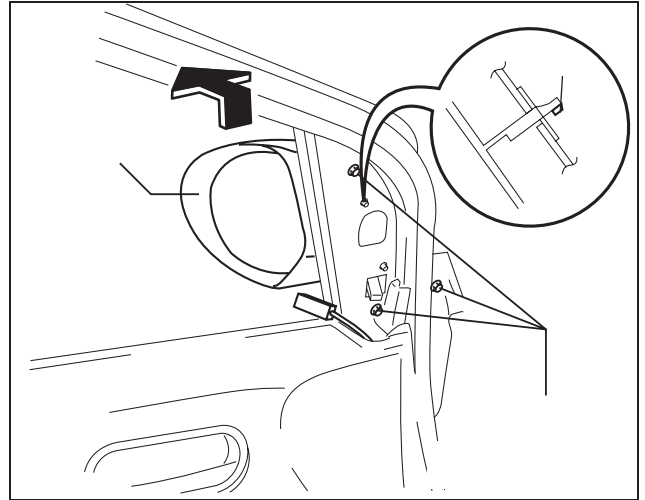
1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Disconnect the power outer mirror connector.



am2zzw0000498

GLASS/WINDOWS/MIRRORS

4. Remove the bolts.
5. Remove the power outer mirror by pulling it in the direction of the arrow shown in the figure to release the tab.
6. Install in the reverse order of removal.



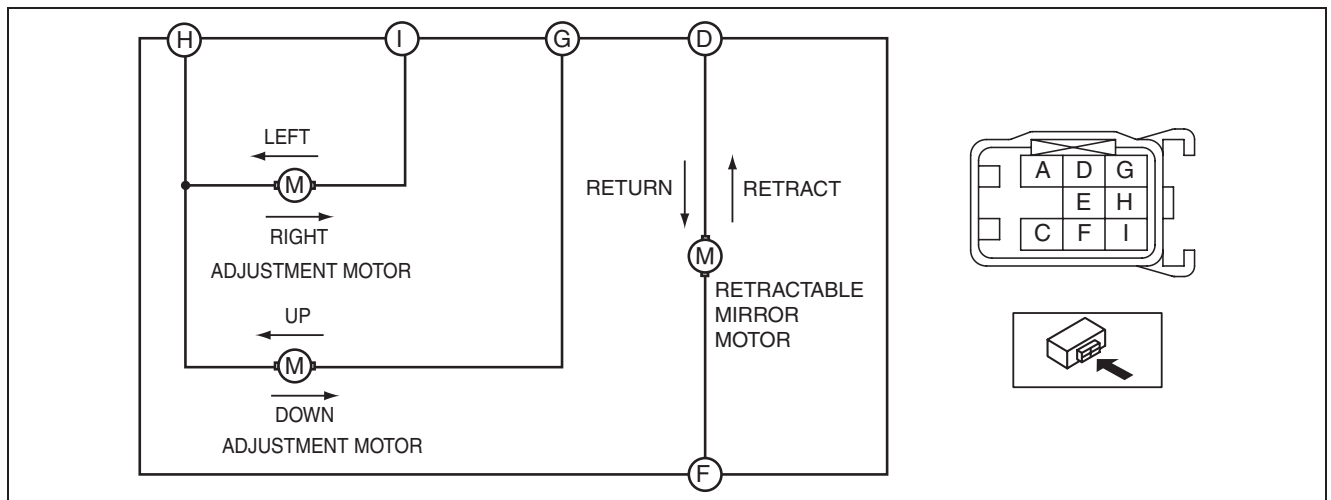
am2zzw0000498

POWER OUTER MIRROR INSPECTION

id091200002700

Mirror glass adjustment, retract/return

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.) (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Remove the power outer mirror. (See 09-12-44 POWER OUTER MIRROR REMOVAL/INSTALLATION.)
5. Apply battery positive voltage to the power outer mirror terminals and inspect the operation of the power outer mirror.



am2zzw0000502

- If not as specified, replace the power outer mirror.

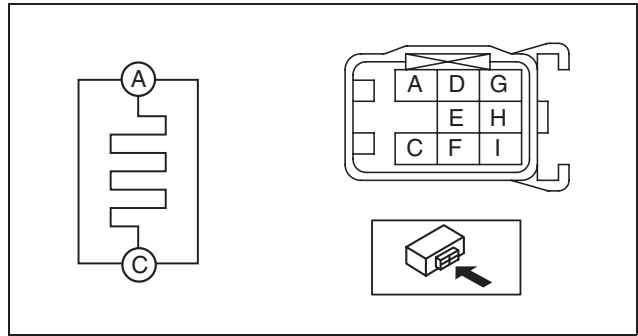
Mirror operation direction	terminal	
	B+	Ground
Up	G	H
Down	H	G
Left	I	H
Right	H	I
Retract	F	D
Return	D	F

Heated outer mirror

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.) (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Remove the power outer mirror. (See 09-12-44 POWER OUTER MIRROR REMOVAL/INSTALLATION.)

GLASS/WINDOWS/MIRRORS

5. Apply battery voltage to power outer mirror connector terminal A, and connect terminal C to ground.



- If not as indicated in the table, or if the resistance is not within the specification, replace the power outer mirror.

○—○ : Resistance

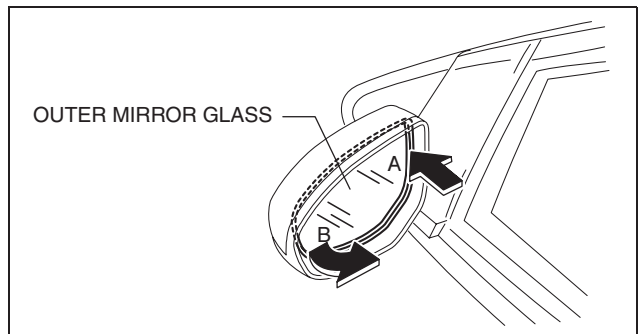
Mirror operation	Terminal	
	A	C
Heater	○—○	○—○

Resistance : 9—15 ohm

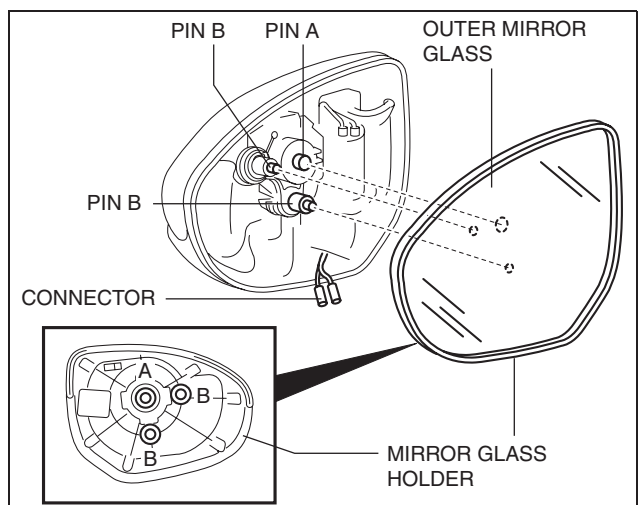
acxwzw0000082

OUTER MIRROR GLASS REMOVAL

1. Disconnect the negative battery cable.
2. Press area A of the outer mirror glass so that area B moves outward.



3. Detach pin A while lifting up the inside of the mirror glass holder.
4. Pull the outer mirror glass and remove pins B.
5. Disconnect the connector. (Vehicles with heated outer mirror)
6. Remove the outer mirror glass.



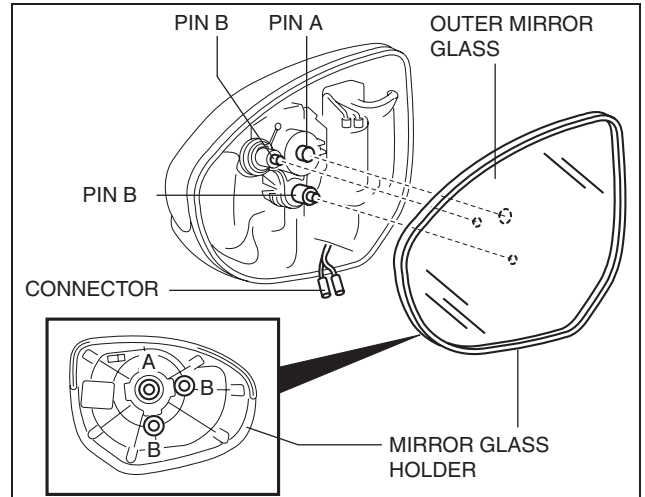
OUTER MIRROR GLASS INSTALLATION

1. Connect the connector to the outer mirror glass. (Vehicles with heated outer mirror)

id091200002900

GLASS/WINDOWS/MIRRORS

2. Press part A on the outer mirror glass and install pin A.
3. Press part B on the outer mirror glass and install pins B.

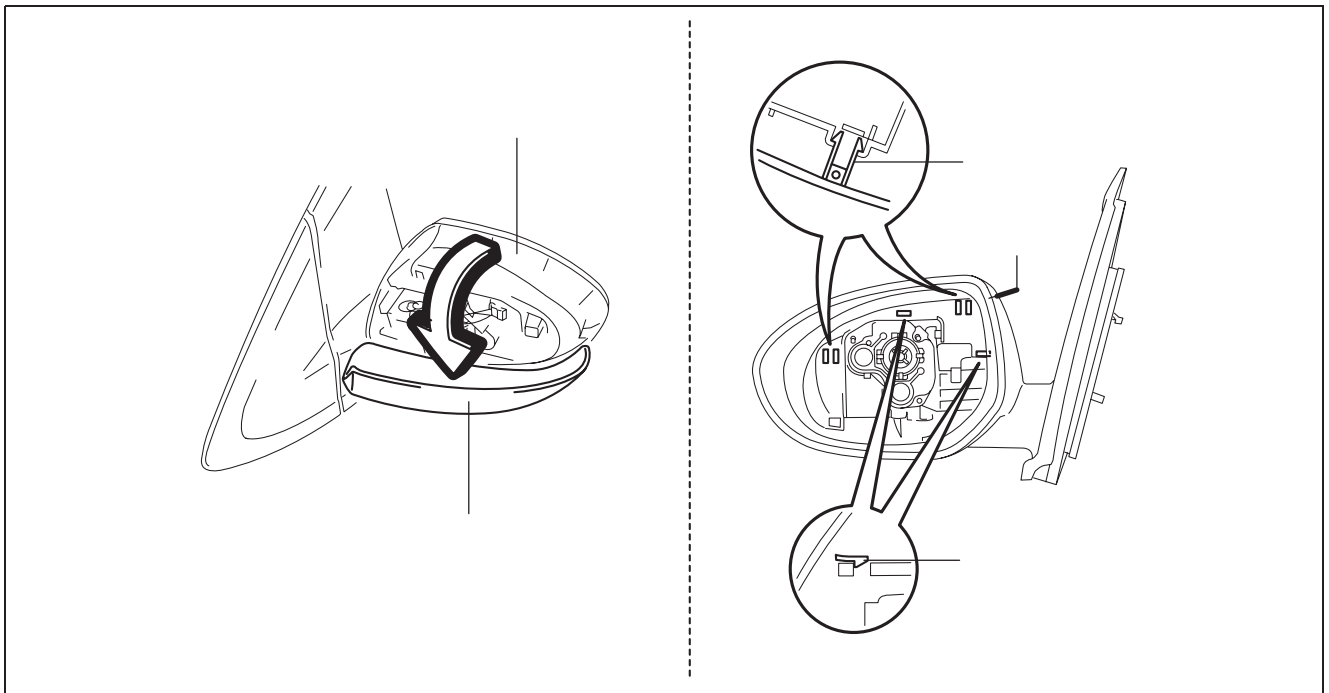


am2zzw0000256

OUTER MIRROR GARNISH REMOVAL

id091200003100

1. Disconnect the negative battery cable.
2. Remove the outer mirror glass from the power outer mirror. (See 09-12-46 OUTER MIRROR GLASS REMOVAL.)
3. Pinch the end of the tab which is visible, and release the tab by pressing it toward the vehicle front (4 locations).



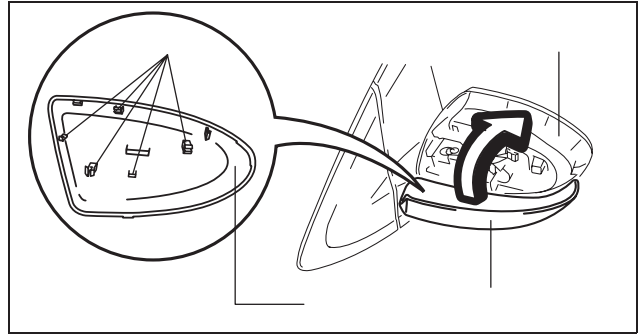
4. Grasp the upper side of the outer mirror garnish and remove it by pulling it in the direction of the arrow.

GLASS/WINDOWS/MIRRORS

OUTER MIRROR GARNISH INSTALLATION

id091200003200

1. Position the outer mirror garnish against the mirror body in the direction of the arrow shown in the figure, and insert the outer mirror garnish tabs (5 locations) into the mirror body.
2. Install the outer mirror garnish so that there are no gaps around the component.
3. Install the outer mirror glass. (See 09-12-46 OUTER MIRROR GLASS INSTALLATION.)



am2zzw0000256

POWER OUTER MIRROR SWITCH REMOVAL/INSTALLATION

id091200003500

Note

- The power outer mirror switch is integrated with the power window main switch.

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (driver-side) (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove the power outer mirror switch. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
5. Install in the reverse order of removal.

POWER OUTER MIRROR SWITCH REMOVAL/INSTALLATION [3HB]

id0912000035z3

Note

- The power outer mirror switch is integrated with the power window main switch.

1. Disconnect the negative battery cable.
2. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
3. Remove the front door trim. (driver-side) (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
4. Remove the power outer mirror switch. (See 09-17-63 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY [3HB].)
5. Install in the reverse order of removal.

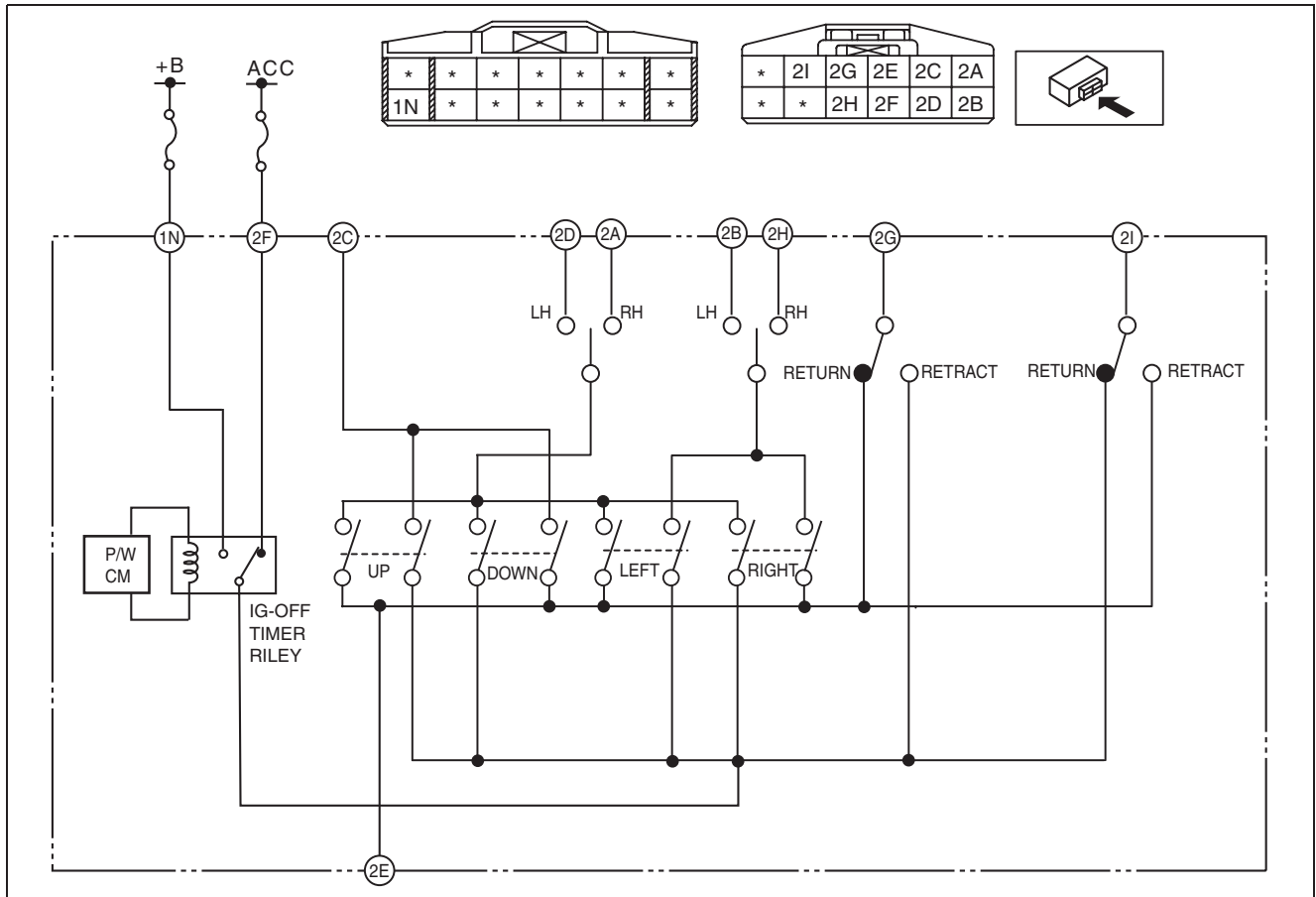
POWER OUTER MIRROR SWITCH INSPECTION

id091200003400

1. Turn the ignition switch to the ON position.
2. Turn the ignition switch to the LOCK position and verify that the power outer mirror switch can be operated for **approx. 43 s**.
 - If the power outer mirror switch cannot be operated for **approx. 43 s** after the ignition switch is turned to the LOCK position, or if the switch can still be operated after **approx. 43 s**, replace the power outer mirror switch.
3. Disconnect the negative battery cable.
4. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
5. Remove the front door trim. (See 09-17-58 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
6. Remove the switch panel. (See 09-17-60 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY.)
7. Using a tester, verify that the continuity between the power outer mirror switch terminals is as indicated in the table.
 - If not as indicated in the table, replace the power outer mirror switch.

GLASS/WINDOWS/MIRRORS

R.H.D.



am2zzw0000502

		Continuity								
OPERATION		2A	2B	2C	2D	2E	2F	2G	2H	2I
LH	UP									
	DOWN									
	LEFT									
	RIGHT									
RH	UP									
	DOWN									
	LEFT									
	RIGHT									
RETRACT SWITCH	RETRACT									
	RETURN									

am2zzw0000383

POWER OUTER MIRROR SWITCH INSPECTION [3HB]

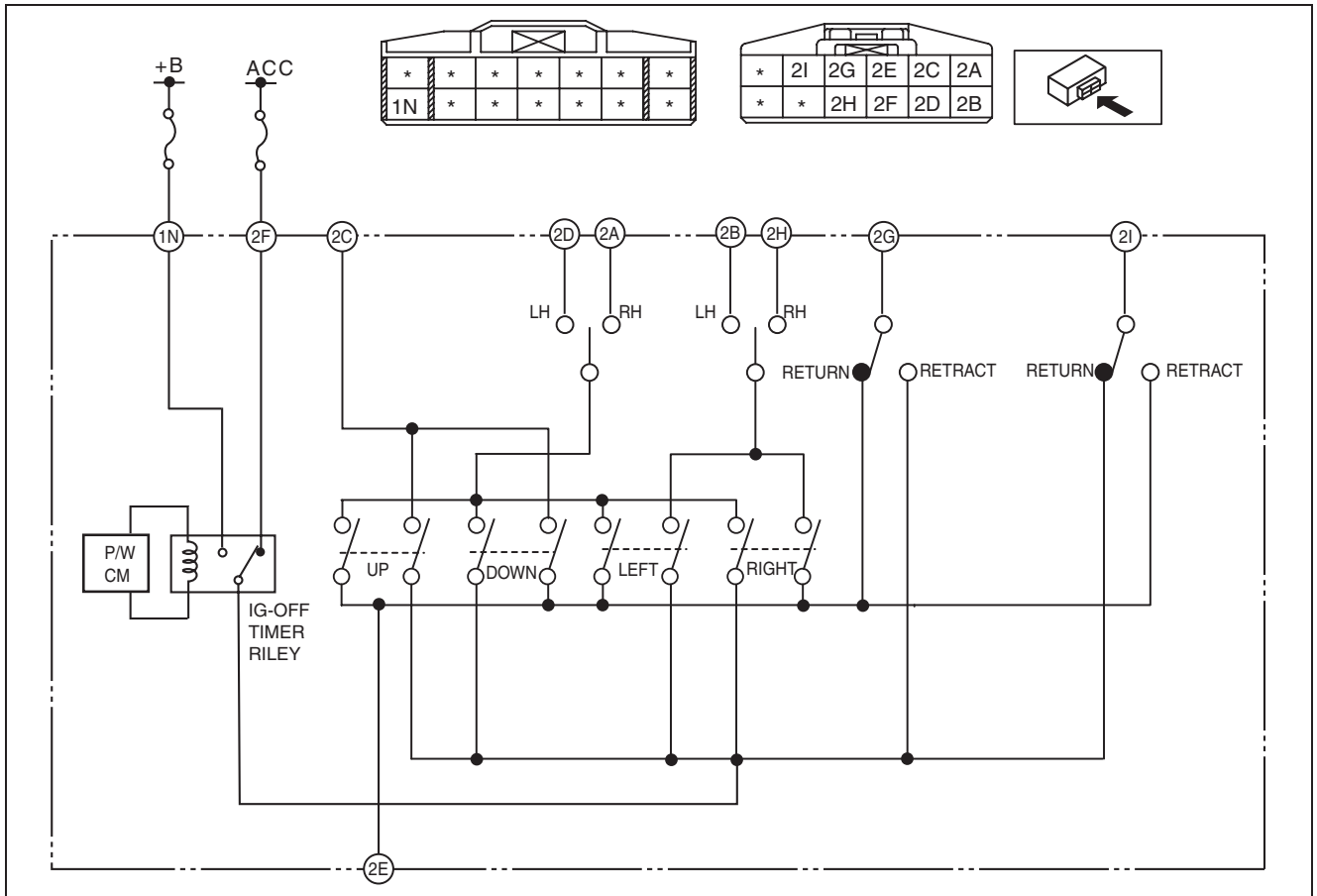
id0912000034z3

1. Turn the ignition switch to the ON position.
2. Turn the ignition switch to the LOCK position and verify that the power outer mirror switch can be operated for approx. 43 s.

GLASS/WINDOWS/MIRRORS

- If the power outer mirror switch cannot be operated for **approx. 43 s** after the ignition switch is turned to the LOCK position, or if the switch can still be operated after **approx. 43 s**, replace the power outer mirror switch.
3. Disconnect the negative battery cable.
 4. Remove the inner garnish. (See 09-17-34 INNER GARNISH REMOVAL/INSTALLATION.)
 5. Remove the front door trim. (See 09-17-59 FRONT DOOR TRIM REMOVAL/INSTALLATION [3HB].)
 6. Remove the switch panel. (See 09-17-63 FRONT DOOR TRIM DISASSEMBLY/ASSEMBLY [3HB].)
 7. Using a tester, verify that the continuity between the power outer mirror switch terminals is as indicated in the table.
- If not as indicated in the table, replace the power outer mirror switch.

R.H.D.



am2zzw0000502

GLASS/WINDOWS/MIRRORS

		:Continuity								
OPERATION		2A	2B	2C	2D	2E	2F	2G	2H	2I
LH	UP									
	DOWN									
	LEFT									
	RIGHT									
RH	UP									
	DOWN									
	LEFT									
	RIGHT									
RETRACT SWITCH	RETRACT									
	RETURN									

am2zzw0000383

FILAMENT INSPECTION

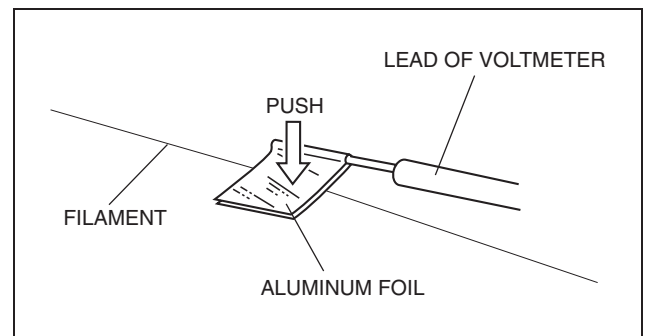
id091200003600

1. Turn the ignition switch to the ON position.
2. Turn the rear window defroster switch on.

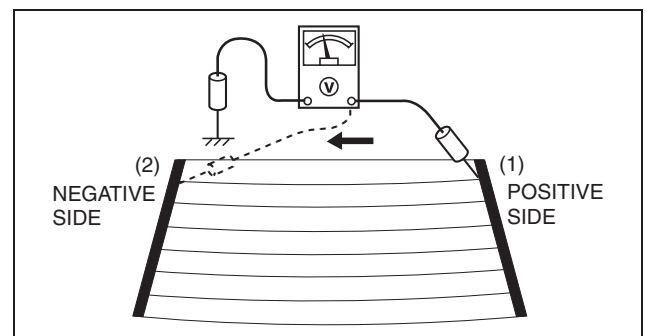
Caution

- Directly touching the rear window defroster filament with the lead of the tester could damage it. Wrap aluminum foil around the end of the lead and inspect the filament by touching it with the foil.
3. Connect the positive lead of the tester to the positive side of each filament and the negative lead to ground.
 4. Gradually slide the positive lead from the positive side to the negative side and verify that the voltage decreases accordingly.
 - If the voltage changes rapidly, the filament has a malfunction. Repair the filament.

Measured part	Voltage (Reference)
(1) to (2)	Approx. 11 V to 0 V



acxuuv00001514



acxuuv00001515

FILAMENT REPAIR

id091200003700

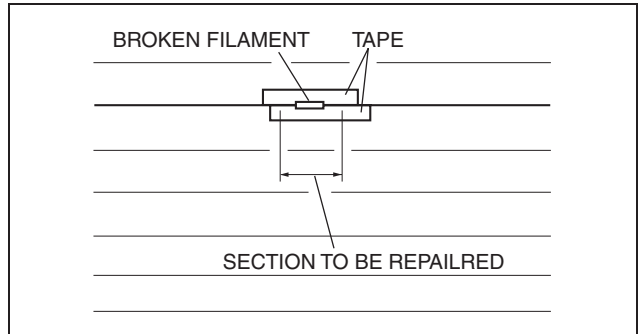
1. Clean the filaments using isopropyl alcohol.

GLASS/WINDOWS/MIRRORS

2. Affix tape along both sides of the filament to be repaired.
3. Apply commercially available silver paint using a fine-tipped tool such as a small brush or a drawing pen.
4. **After 2—3 min**, peel off the tape being careful not to damage the painted area.

Caution

- **Do not operate the rear window defroster until the repaired area is completely dried to prevent a malfunction.**



am2zzw0000502

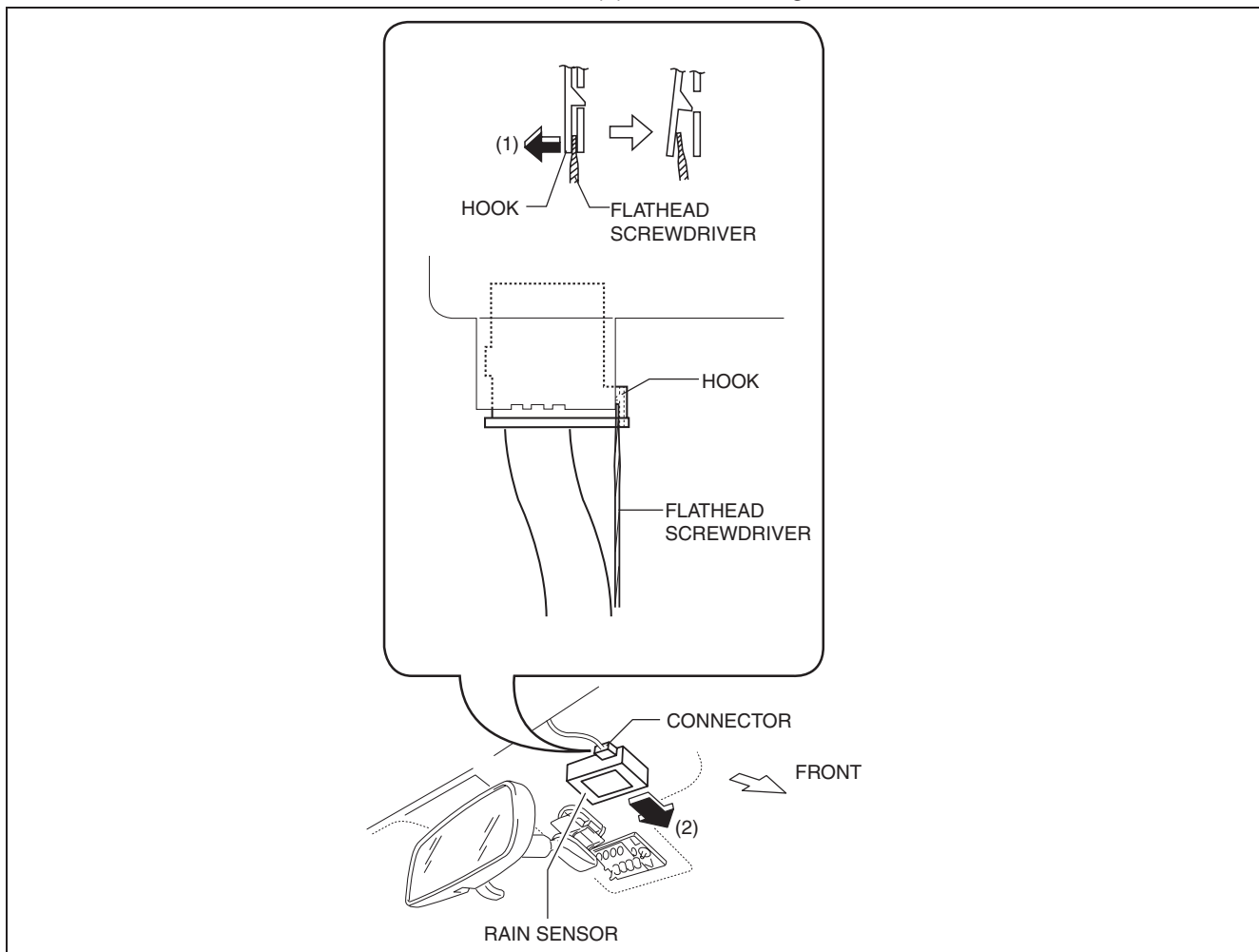
5. Completely dry the repaired area referring the followings:
 - If the room temperature is **25 °C {77 °F}**, leave it for **24 h**.
 - When using a hot air blower, dry for **30 min** at **150 °C {302 °F}**.

REARVIEW MIRROR REMOVAL

id091200004900

Vehicles With Rain Sensor

1. Disconnect the negative battery cable.
2. Remove the rain sensor from the windshield. (See 09-19-28 RAIN SENSOR REMOVAL/INSTALLATION.)
3. Detach the hook in the direction of arrows (1) shown in the figure using a flathead screwdriver.
4. Remove the rain sensor in the direction of arrows (2) shown in the figure.



am2zzw0000363

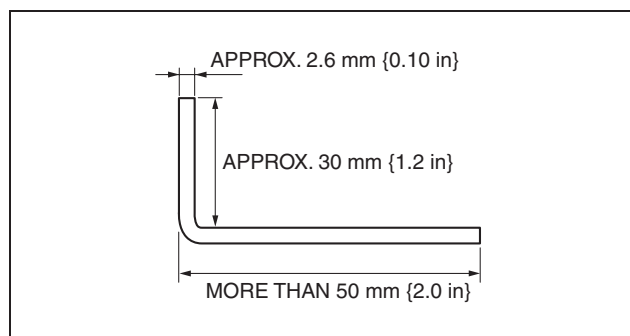
GLASS/WINDOWS/MIRRORS

5. Make a tool as shown in the figure using wire.

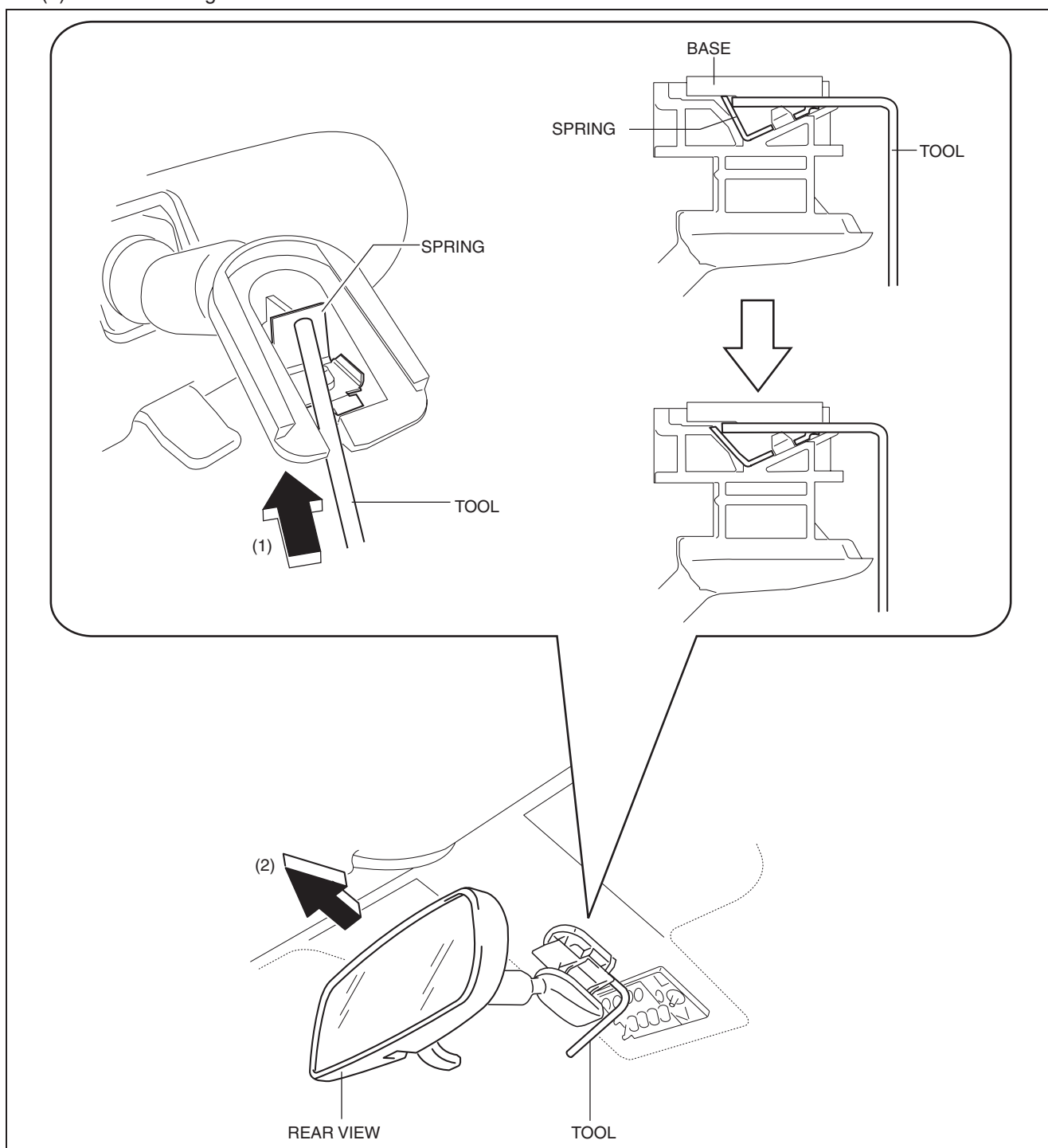
Caution

- Using the tool with bare hands can cause injury. Always wear gloves when using the tool.
- To prevent damage to the lens, do not use a flathead screwdriver.

6. Insert the tool to the position shown in the figure and press the center part of the spring in the direction of arrows (1), and then pull out the rearview mirror toward in the direction of arrows (2) shown in the figure.



am2zzw0000449



am2zzw0000502

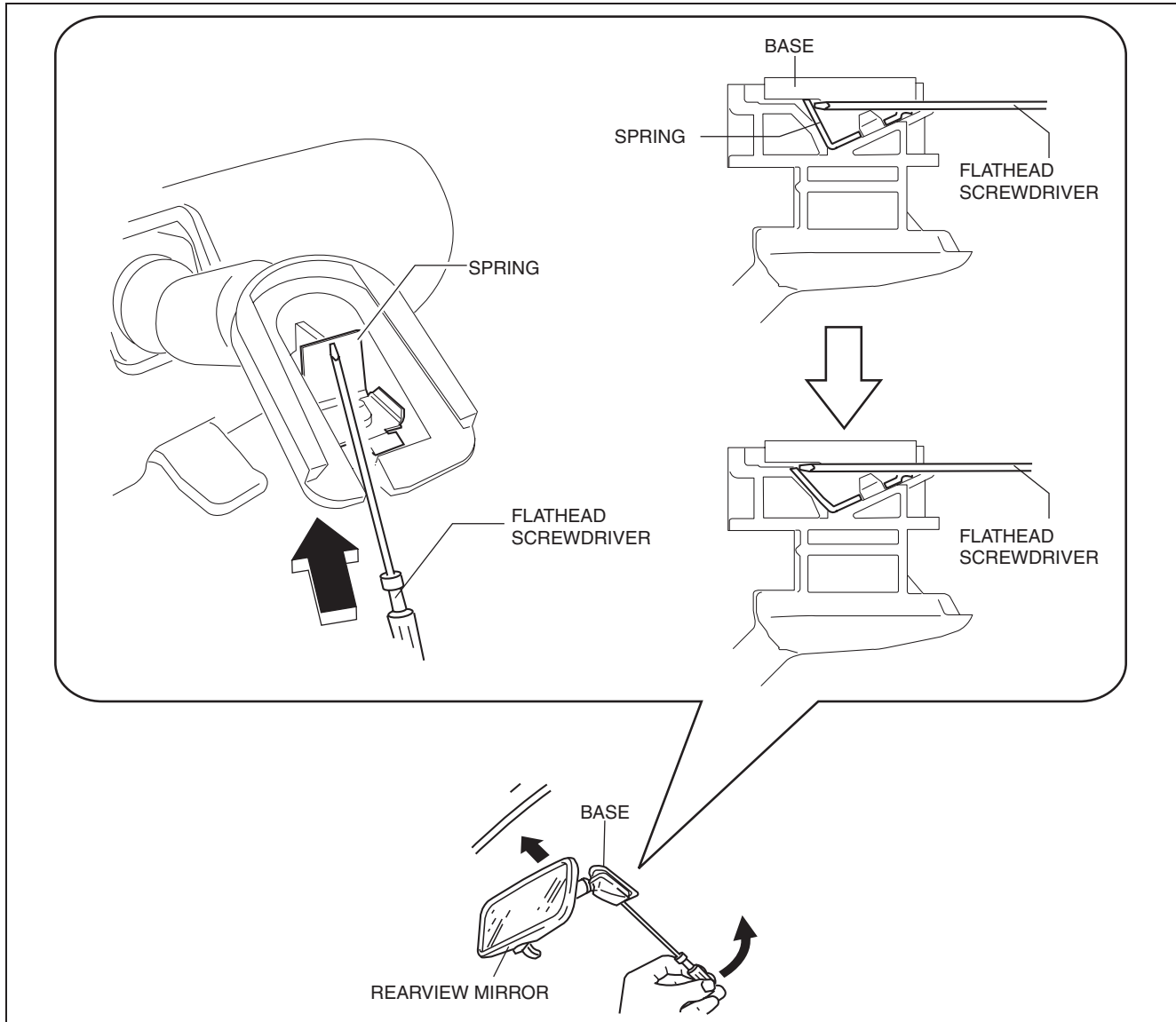
GLASS/WINDOWS/MIRRORS

Caution

- Perform the procedure while being careful not to damage the lens.
- When removing the rearview mirror, it may hit the headliner and cause a damage. Hold the rearview mirror with hands and be careful not to contact it with the headliner.

Vehicles Without Rain Sensor

1. Insert a flathead screwdriver between the rearview mirror and base.
2. Insert a tape-wrapped flathead screwdriver to the position shown in the figure and press the center part of the spring.



am2zzw0000441

3. Pull out the rearview mirror toward the vehicle rear.

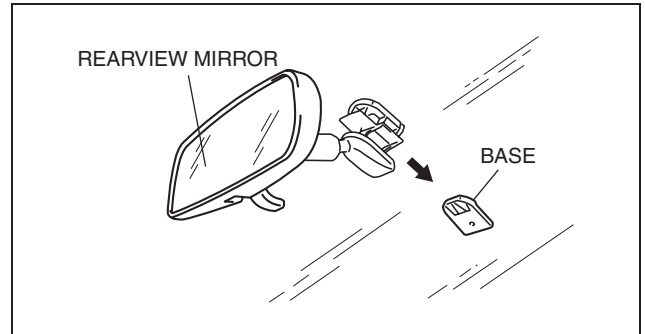
GLASS/WINDOWS/MIRRORS

REARVIEW MIRROR INSTALLATION

id091200005000

Vehicles With Rain Sensor

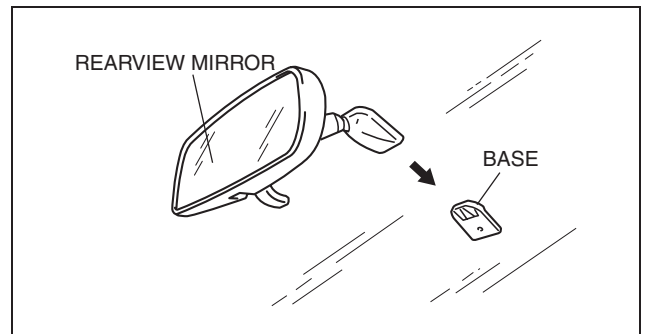
1. Install the rearview mirror to the base.
2. Install the rain sensor. (See 09-19-28 RAIN SENSOR REMOVAL/INSTALLATION.)



am2zzw0000235

Vehicles Without Rain Sensor

1. Install the rearview mirror to the base.



am2zzw0000235

BASE REMOVAL

id091200005300

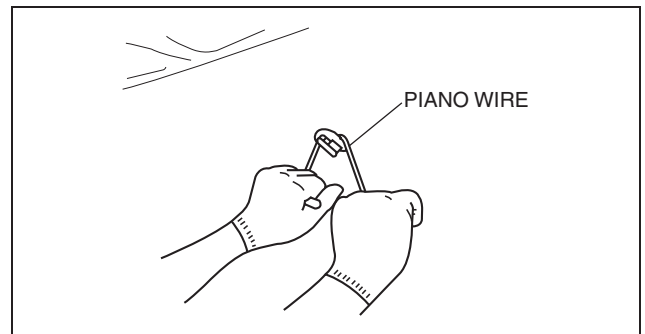
1. Disconnect the negative battery cable.
2. Remove the rain sensor. (Vehicles with rain sensor.) (See 09-19-28 RAIN SENSOR REMOVAL/INSTALLATION.)
3. Remove the rearview mirror. (See 09-12-54 REARVIEW MIRROR REMOVAL)
4. Wind each end of a piano wire around a bar.

Warning

- Using the piano wire with bare hands can cause injury. Always wear gloves when using the piano wire.

Note

- Use a long sawing action to spread the work over the whole length of the piano wire to prevent it from breaking.



acxuuw00001981

5. Fix one end of the piano wire, and while pulling the other end, cut the sealant to remove the base.

BASE INSTALLATION

id091200005400

1. Cut away all of the original sealant using a razor.

Warning

- Using a razor with bare hands can cause injury. Always wear gloves when using a razor.

2. Clean and degrease the ceramic coating on the glass and the base.

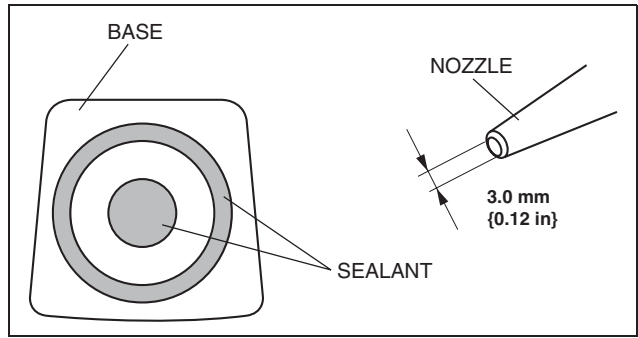
Caution

- Keep the area free of dirt and grease, and do not touch the surface. Otherwise, the primer may not properly bond to the surface of the glass.

3. Apply primer to the bonding area of the glass and the base.

GLASS/WINDOWS/MIRRORS

4. Use only glass primer on the glass, and body primer on the base. Allow the primer to dry for **approx. 30 min.**
5. Apply **3.0 mm {0.12 in}** layer of sealant to the base.

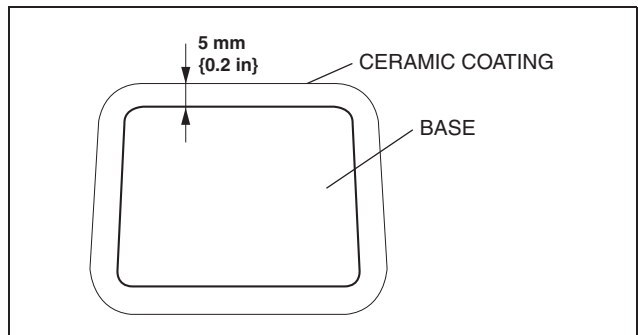


acxuuw00001982

6. Center the base in the ceramic coating and press it onto the glass.
7. Use isopropyl alcohol to remove any excess repair sealant.

Hardening time of sealant

Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min	Approx. 2 h



acxuuw00001983

8. Install the rearview mirror.

09-13 SEATS

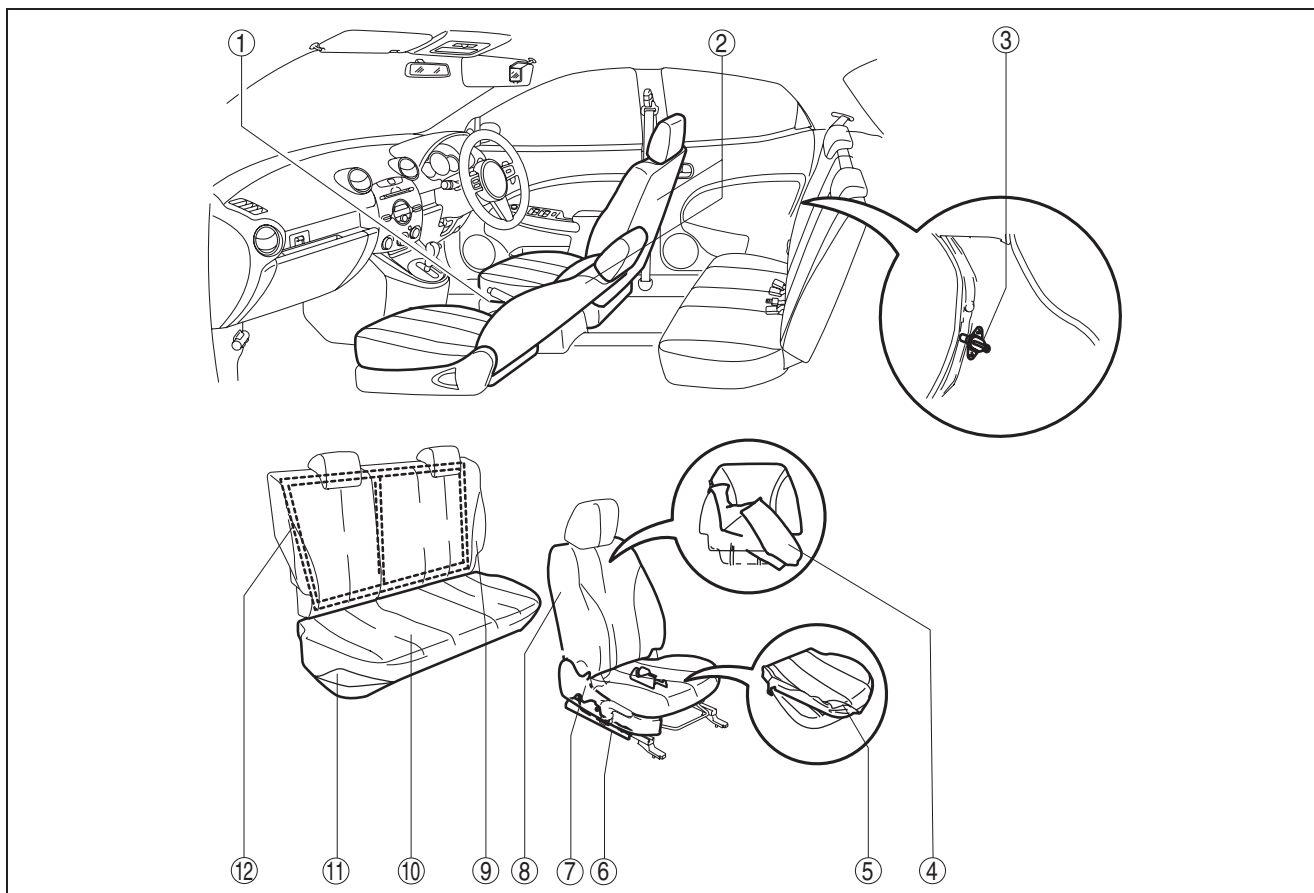
SEAT LOCATION INDEX	09-13-2	FRONT SEAT CUSHION TRIM	
R.H.D.	09-13-3	REMOVAL/INSTALLATION	09-13-22
FRONT SEAT REMOVAL/INSTALLATION		FRONT SEAT SIDE COVER	
[AutoAlliance (AAT) Thailand		REMOVAL/INSTALLATION	09-13-22
manufactured vehicles].....	09-13-4	R.H.D.	09-13-24
R.H.D.	09-13-5	FRONT SEAT RAIL COVER	
FRONT SEAT REMOVAL/INSTALLATION		REMOVAL/INSTALLATION	09-13-26
[Except AutoAlliance (AAT) Thailand		R.H.D.	09-13-26
manufactured vehicles].....	09-13-6	REAR SEAT BACK	
R.H.D.	09-13-8	REMOVAL/INSTALLATION	
FRONT SEAT BACK COMPONENT		[AutoAlliance (AAT) Thailand	
REMOVAL/INSTALLATION [VEHICLES		manufactured vehicles]	09-13-26
WITH SIDE AIR BAGS].....	09-13-9	REAR SEAT BACK	
Band Installation Note	09-13-10	REMOVAL/INSTALLATION [Except	
FRONT SEAT BACK COMPONENT		AutoAlliance (AAT) Thailand	
REMOVAL/INSTALLATION [VEHICLES		manufactured vehicles]	09-13-27
WITHOUT SIDE AIR BAGS].....	09-13-10	REAR SEAT BACK FRAME	
FRONT SEAT BACK TRIM		REMOVAL/INSTALLATION	09-13-28
REMOVAL/INSTALLATION [VEHICLES		REAR SEAT CUSHION	
WITH SIDE AIR BAGS].....	09-13-11	REMOVAL/INSTALLATION	09-13-31
R.H.D.	09-13-13	REAR SEAT CUSHION TRIM	
Band Installation Note	09-13-16	REMOVAL/INSTALLATION	09-13-31
Holder Bracket Installation Note.....	09-13-16	REAR SEAT BACK STRIKER	
FRONT SEAT BACK TRIM		REMOVAL/INSTALLATION	09-13-31
REMOVAL/INSTALLATION [VEHICLES		SEAT WARMER SWITCH	
WITHOUT SIDE AIR BAGS].....	09-13-19	REMOVAL/INSTALLATION	09-13-32
R.H.D.	09-13-20	SEAT WARMER SWITCH	
		INSPECTION	09-13-32
		SEAT WARMER UNIT INSPECTION	09-13-33

SEATS

SEAT LOCATION INDEX

R.H.D.

id091300424300



am2zzw0000511

1	Seat warmer switch (See 09-13-32 SEAT WARMER SWITCH REMOVAL/INSTALLATION.) (See 09-13-32 SEAT WARMER SWITCH INSPECTION.)
2	Front seat (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
3	Rear seat back striker (See 09-13-31 REAR SEAT BACK STRIKER REMOVAL/INSTALLATION.)
4	Front seat back trim (See 09-13-11 FRONT SEAT BACK TRIM REMOVAL/INSTALLATION [VEHICLES WITH SIDE AIR BAGS].) (See 09-13-19 FRONT SEAT BACK TRIM REMOVAL/INSTALLATION [VEHICLES WITHOUT SIDE AIR BAGS].)
5	Front seat cushion trim (See 09-13-22 FRONT SEAT CUSHION TRIM REMOVAL/INSTALLATION.)
6	Front seat rail cover (See 09-13-26 FRONT SEAT RAIL COVER REMOVAL/INSTALLATION.)

7	Front seat side cover (See 09-13-22 FRONT SEAT SIDE COVER REMOVAL/INSTALLATION.)
8	Front seat back component (See 09-13-9 FRONT SEAT BACK COMPONENT REMOVAL/INSTALLATION [VEHICLES WITH SIDE AIR BAGS].) (See 09-13-10 FRONT SEAT BACK COMPONENT REMOVAL/INSTALLATION [VEHICLES WITHOUT SIDE AIR BAGS].)
9	Rear seat back (See 09-13-26 REAR SEAT BACK REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-27 REAR SEAT BACK REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
10	Rear seat cushion (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
11	Rear seat cushion trim (See 09-13-31 REAR SEAT CUSHION TRIM REMOVAL/INSTALLATION.)
12	Rear seat back frame (See 09-13-28 REAR SEAT BACK FRAME REMOVAL/INSTALLATION.)

SEATS

FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles]

id0913004244z3

Warning

- Handling a front seat (with built-in side air bag) improperly can accidentally operate (deploy) the air bag, which may seriously injure you. Read the service warnings before handling a front seat (with built-in side air bag).

Caution

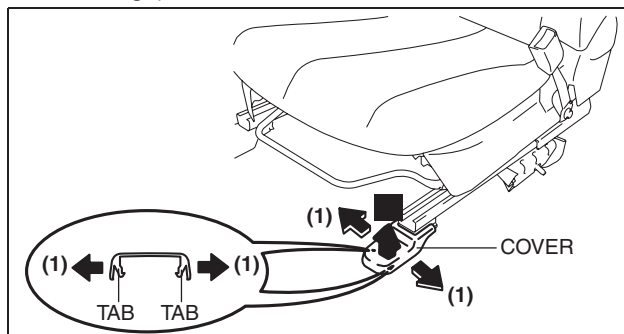
- After removing a front seat, do not operate the slider lever. If the slider lever is operated, the left and right slide positions will deviate, and the slide adjuster may be damaged after the front seat is installed.
- Verify that there are no malfunctions in the sliding mechanism after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean rag so as not to damage or soil the seat.

Note

- When removing the front seat out of the vehicle or putting it back in, it can be performed smoothly by removing the headrest.

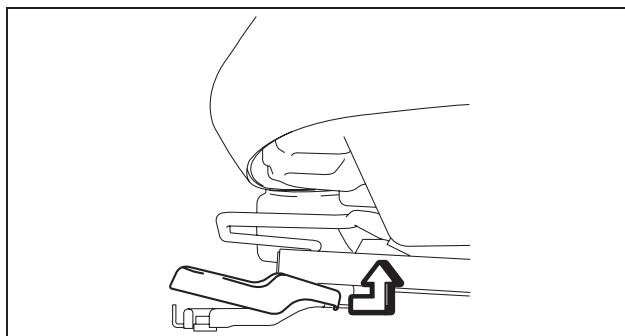
R.H.D.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**. (Vehicles with side air bags)
3. Disconnect the negative battery cable. (Vehicles without side air bags)
4. Using a fastener remover, widen the front cover in the direction of arrow (1) shown in the figure to release the tabs, then raise the cover in the direction of arrow (2).



am2zzw0000243

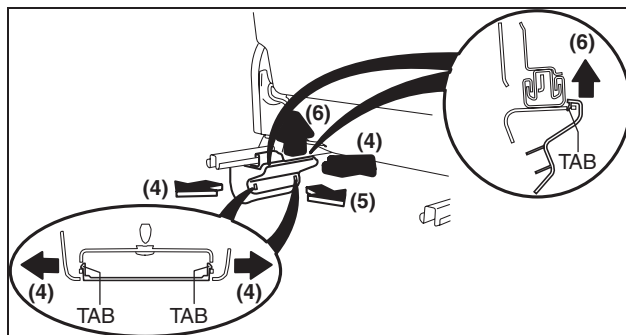
5. Remove the front cover in the direction of arrow (3) shown in the figure.



adejjw00003315

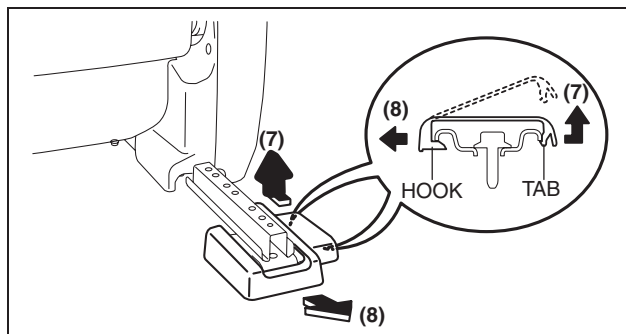
SEATS

6. Using a fastener remover, widen the rear inner cover in the direction of arrow (4) shown in the figure to release the tabs, then pull the cover in the direction of arrow (5).
7. Remove the rear inner cover in the direction of arrow (6) shown in the figure.



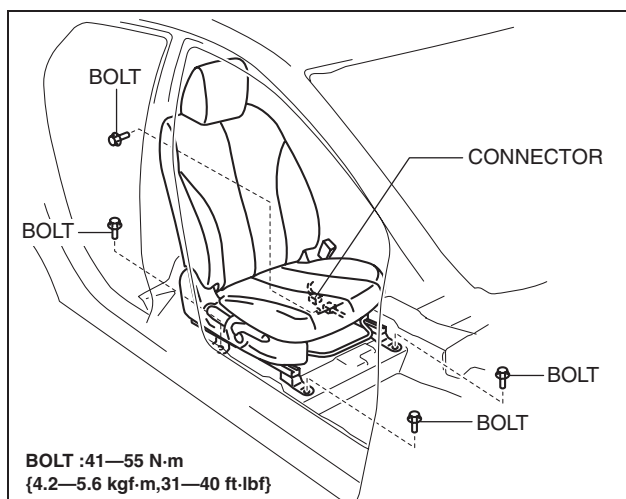
am2zzw0000243

8. Using a fastener remover, widen the rear outer cover in the direction of arrow (7) shown in the figure to release the tab, then remove the cover by pulling it in the direction of arrow (8).



am2zzw0000243

9. Disconnect the connector.
10. Remove the bolts, then remove the front seat.
11. Install in the reverse order of removal.



am2zzw0000444

FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles]

id0913004244z4

Warning

- Handling a front seat (with built-in side air bag) improperly can accidentally operate (deploy) the air bag, which may seriously injure you. Read the service warnings before handling a front seat (with built-in side air bag).

Caution

- After removing a front seat, do not operate the slider lever. If the slider lever is operated, the left and right slide positions will deviate, and the slide adjuster may be damaged after the front seat is installed.
- Verify that there are no malfunctions in the sliding mechanism after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean rag so as not to damage or soil the seat.

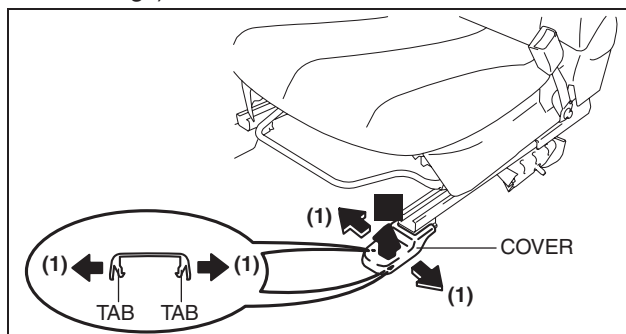
Note

- When removing the front seat out of the vehicle or putting it back in, it can be performed smoothly by removing the headrest.

SEATS

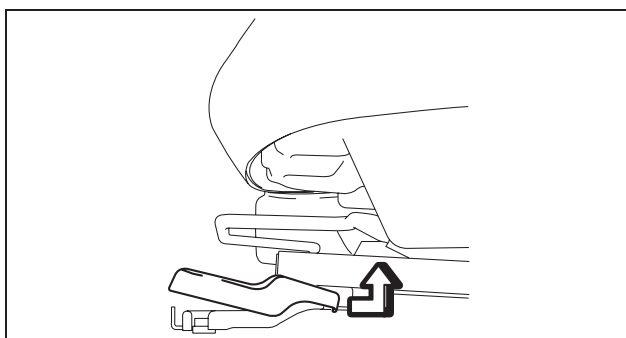
R.H.D.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**. (Vehicles with side air bags)
3. Disconnect the negative battery cable. (Vehicles without side air bags)
4. Using a fastener remover, widen the front cover in the direction of arrow (1) shown in the figure to release the tabs, then raise the cover in the direction of arrow (2).



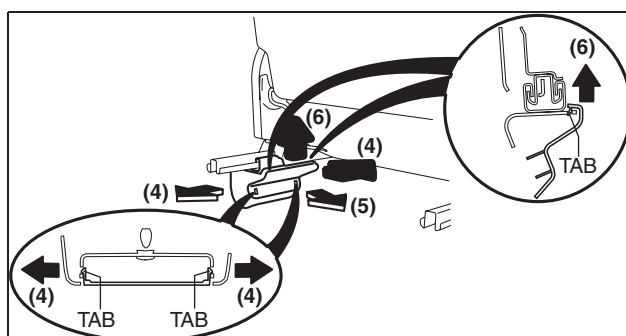
am2zzw0000243

5. Remove the front cover in the direction of arrow (3) shown in the figure.



adejjw00003315

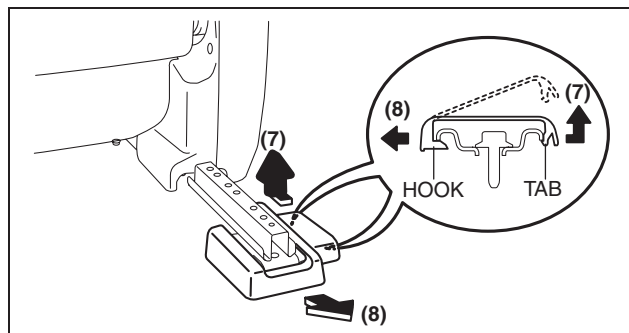
6. Using a fastener remover, widen the rear inner cover in the direction of arrow (4) shown in the figure to release the tabs, then pull the cover in the direction of arrow (5).
7. Remove the rear inner cover in the direction of arrow (6) shown in the figure.



am2zzw0000243

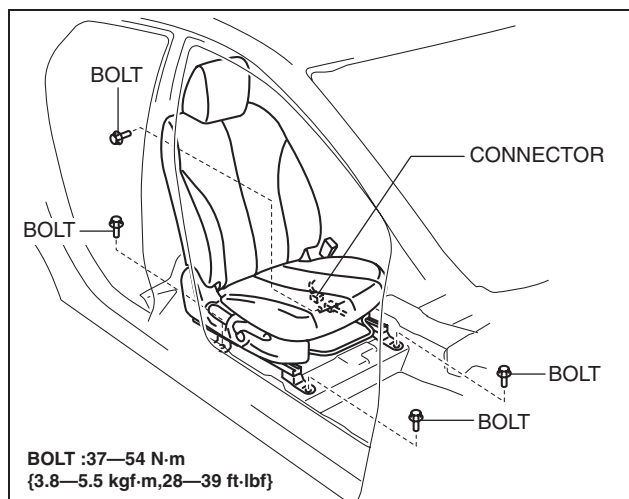
SEATS

8. Using a fastener remover, widen the rear outer cover in the direction of arrow (7) shown in the figure to release the tab, then remove the cover by pulling it in the direction of arrow (8).



am2zzw0000243

9. Disconnect the connector.
10. Remove the bolts, then remove the front seat.
11. Install in the reverse order of removal.



am2zzw0000444

FRONT SEAT BACK COMPONENT REMOVAL/INSTALLATION [VEHICLES WITH SIDE AIR BAGS]

id091300428837

Warning

- Handling a front seat improperly can accidentally operate (deploy) the air bag, which may seriously injure you. Read the service warnings before handling a front seat (with built-in side air bag).

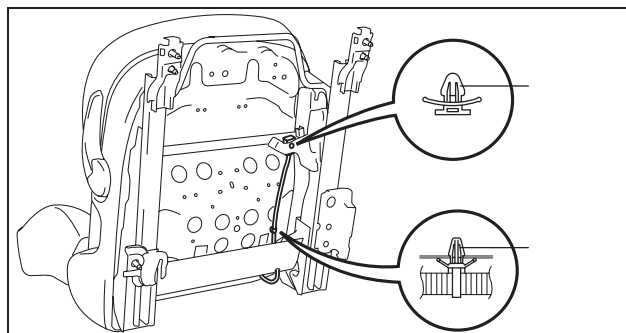
Caution

- After removing a front seat, do not operate the slider lever. If the slider lever is operated, the left and right slide positions will deviate, and the slide adjuster may be damaged after the front seat is installed.
- Verify that there are no malfunctions in the sliding mechanism after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean rag so as not to damage or soil the seat.

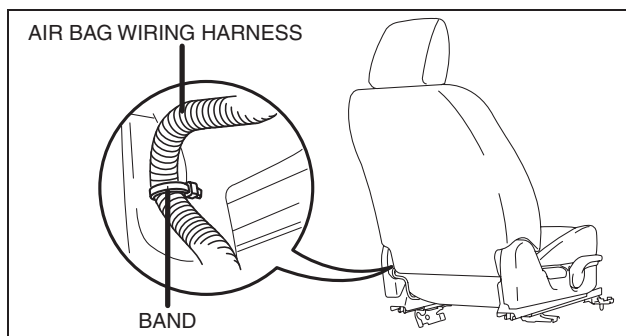
1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**.
3. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
4. Remove the headrest.
5. Remove the front seat side cover. (See 09-13-22 FRONT SEAT SIDE COVER REMOVAL/INSTALLATION.)

SEATS

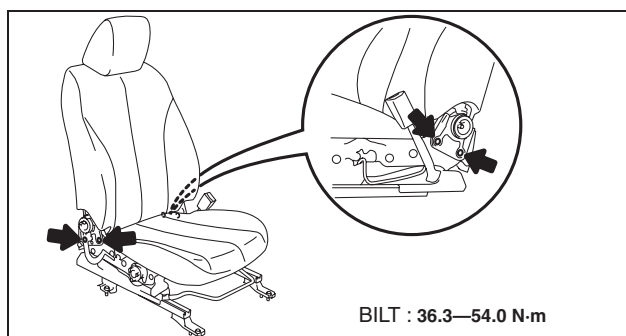
6. Detach clip A shown in the figure.
7. Cut clip B shown in the figure.



8. Cut the band securing the side air bag wiring harness. (See 09-13-10 Band Installation Note.)

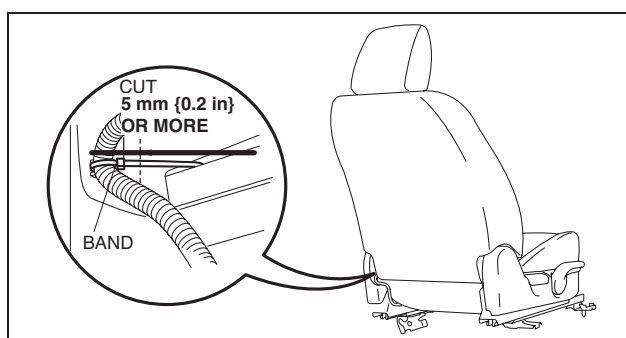


9. Remove the bolts, then remove the front seat back component.
10. Install in the reverse order of removal.



Band Installation Note

1. Install the band with the end pointed to the front.
2. Cut off the end of the band at the position shown in the figure.



FRONT SEAT BACK COMPONENT REMOVAL/INSTALLATION [VEHICLES WITHOUT SIDE AIR BAGS]

id091300428838

Caution

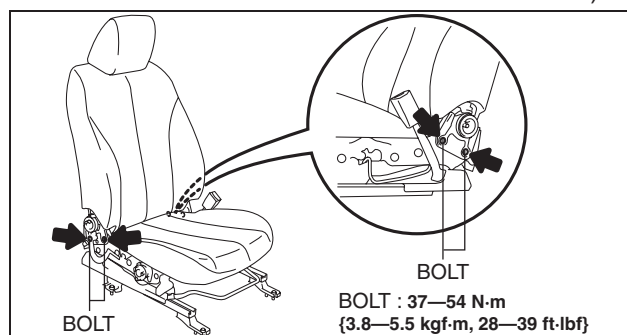
- After removing a front seat, do not operate the slider lever. If the slider lever is operated, the left and right slide positions will deviate, and the slide adjuster may be damaged after the front seat is installed.
- Verify that there are no malfunctions in the sliding mechanism after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean rag so as not to damage or soil the seat.

1. Disconnect the negative battery cable.

09-13-10

SEATS

2. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
3. Remove the headrest.
4. Remove the front seat side cover. (See 09-13-22 FRONT SEAT SIDE COVER REMOVAL/INSTALLATION.)
5. Remove the bolts, then remove the front seat back component.
6. Install in the reverse order of removal.



am2zzw0000515

FRONT SEAT BACK TRIM REMOVAL/INSTALLATION [VEHICLES WITH SIDE AIR BAGS]

id091300487737

Warning

- Handling a front seat (with built-in side air bag) improperly can accidentally operate (deploy) the air bag, which may seriously injure you. Read the service warnings before handling a front seat (with built-in side air bag).

Caution

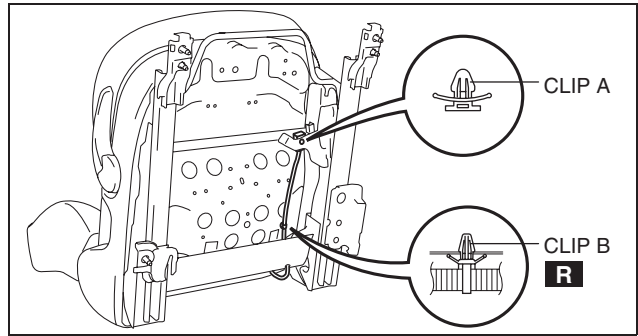
- After removing a front seat, do not operate the slider lever. If the slider lever is operated, the left and right slide positions will deviate, and the slide adjuster may be damaged after the front seat is installed.
- Verify that there are no malfunctions in the sliding mechanism after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean rag so as not to damage or soil the seat.

R.H.D.

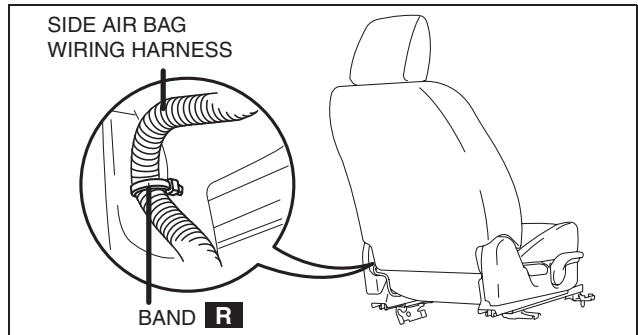
1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**.
3. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
4. Remove the headrest.

SEATS

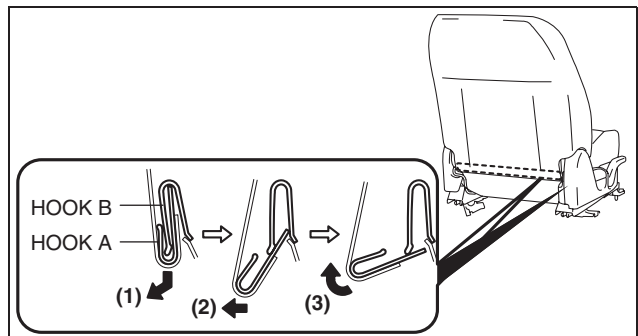
5. Detach clip A shown in the figure.
6. Cut clip B shown in the figure.



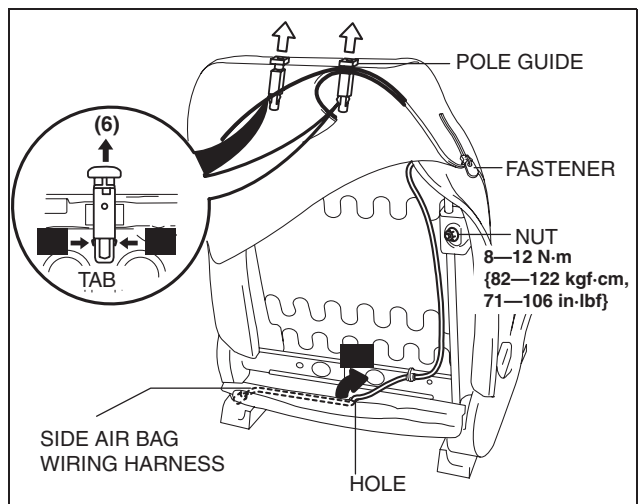
7. Cut the band securing the side air bag wiring harness. (See 09-13-16 Band Installation Note.)



8. Slide hook A in the order shown in the figure to detach it from hook B.

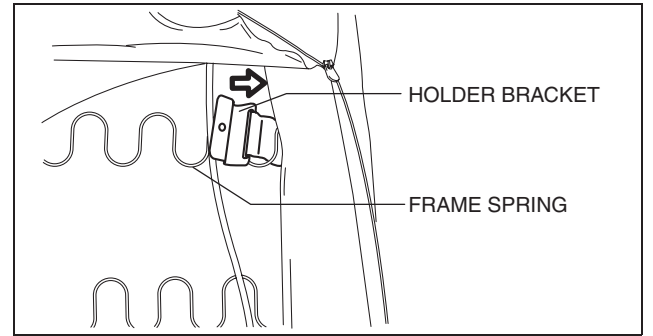


9. Open the fastener.
10. Pull out the side air bag wiring harness from the hole of the seat back trim and seat back pad by pulling it in the direction of arrow (4) shown in the figure.
11. Partially peel back the front seat back trim, release the pole guide tabs in the direction of arrow (5) shown in the figure, then pull the pole guide out in the direction of arrow (6).
12. Remove the nut.



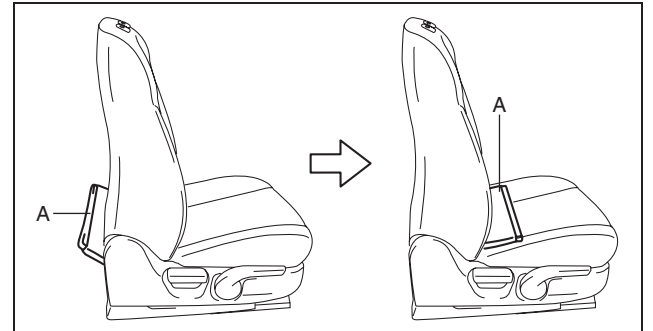
SEATS

13. Press in the holder bracket to the seat back pad being careful not to catch the frame spring. (See 09-13-16 Holder Bracket Installation Note.)



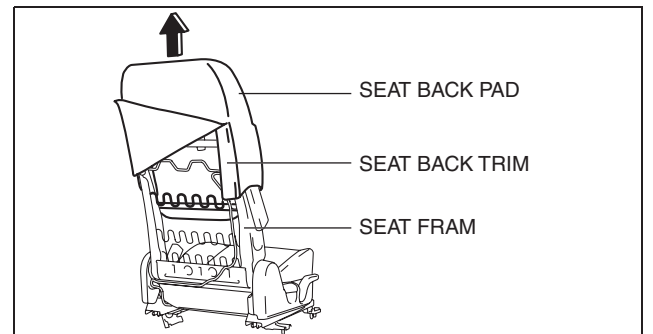
am2zzw0000207

14. Pull out part A shown in the figure to the front.



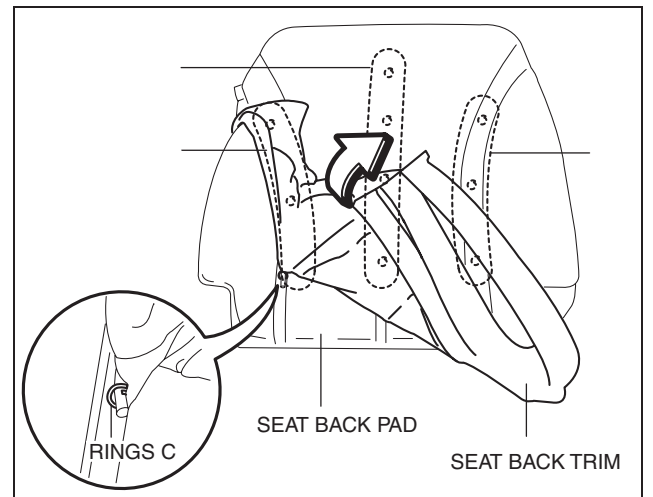
adejjw00001864

15. Remove the seat back trim and the seat back pad as a single unit from the seat frame by pulling them in the direction of the arrow.



am2zzw0000207

16. Partially peel back the seat back trim from the seat back pad, remove rings C in the order of (7), (8), (9) shown in the figure, then remove the seat back trim.
17. Install in the reverse order of removal.



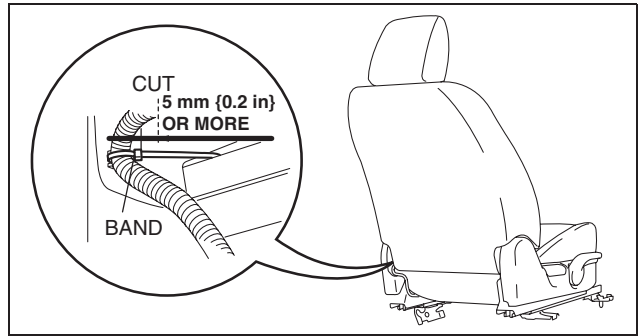
am2zzw0000207

SEATS

Band Installation Note

R.H.D.

1. Install the band with the end pointed to the front.
2. Cut the band end so that the length of the band end is **5 mm or less** from the securing point.



adejjw00003319

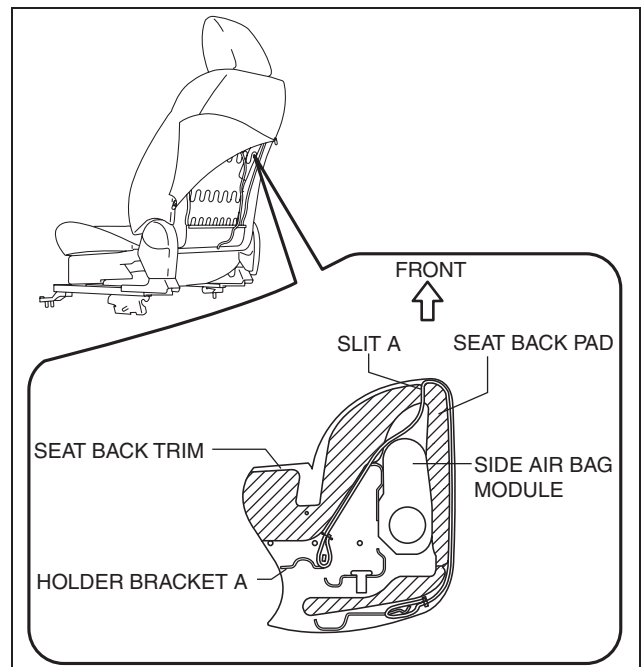
Holder Bracket Installation Note

R.H.D.

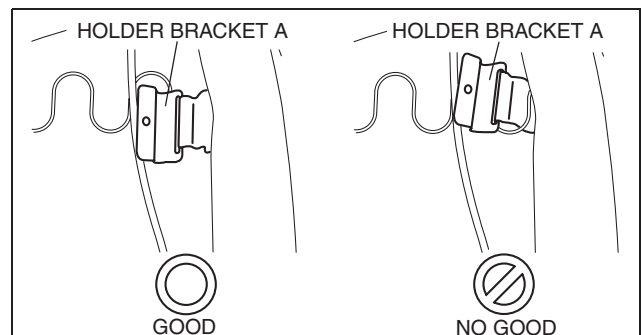
1. Pass holder bracket A through slit A of the seat back pad.

Caution

- Set the holder bracket A with the sleeve not caught in the seat frame spring.



am2zzw0000245



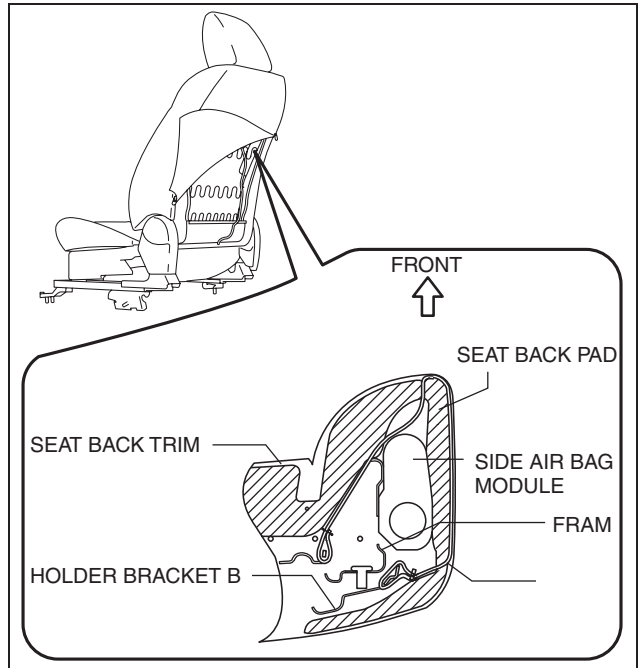
am2zzw0000498

SEATS

- Pass holder bracket B through slit B of the seat back pad.

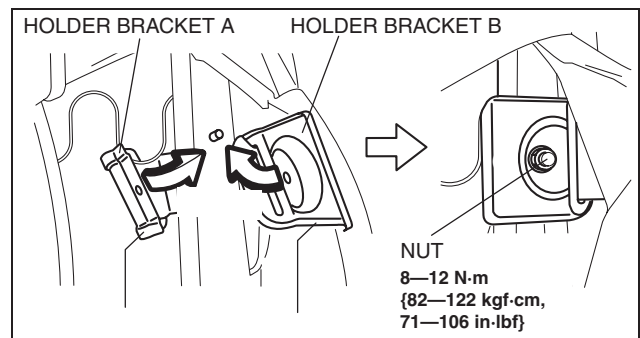
Caution

- Install it without twisting the sleeve.



am2zzw0000245

- Assemble the holder bracket A to the frame.(1)
- Assemble the holder bracket B to the frame.(2)
- Install holder bracket A and B to the frame using the nut.(3)



am2zzw0000208

FRONT SEAT BACK TRIM REMOVAL/INSTALLATION [VEHICLES WITHOUT SIDE AIR BAGS]

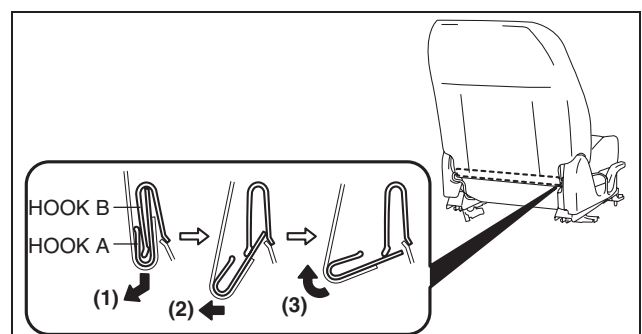
id091300487738

Caution

- After removing a front seat, do not operate the slider lever. If the slider lever is operated, the left and right slide positions will deviate, and the slide adjuster may be damaged after the front seat is installed.
- Verify that there are no malfunctions in the sliding mechanism after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean rag so as not to damage or soil the seat.

R.H.D.

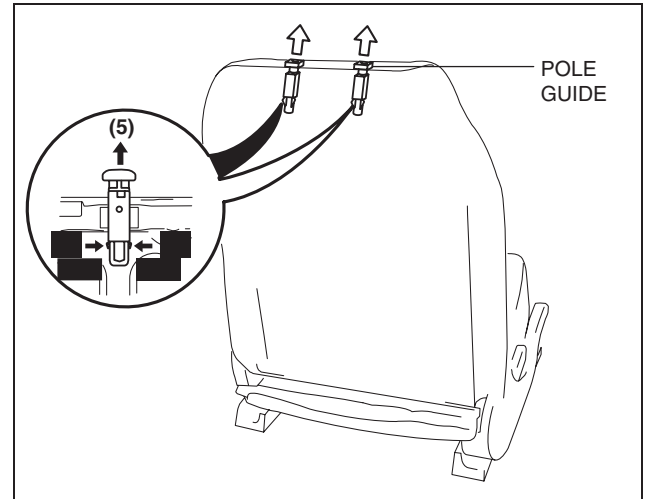
- Disconnect the negative battery cable.
- Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
- Remove the headrest.
- Slide hook A in the order of (1), (2), (3) shown in the figure to detach it from hook B.



am2zzw0000246

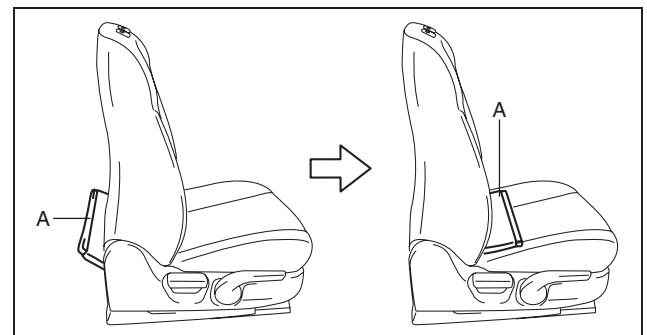
SEATS

5. Partially peel back the front seat back pad, release the pole guide tabs in the direction of arrow (4) shown in the figure, then pull the pole guide out in the direction of arrow (5).



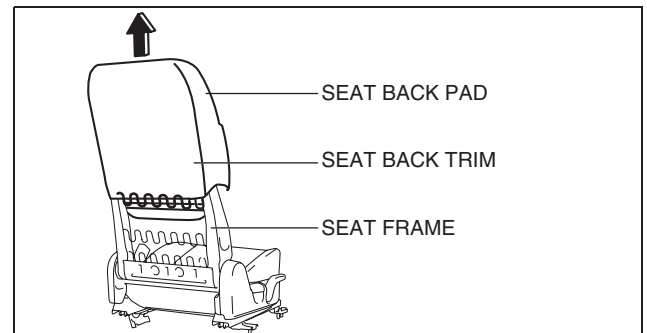
am2zzw0000246

6. Pull out part A of the seat back pad to the front of the seat.



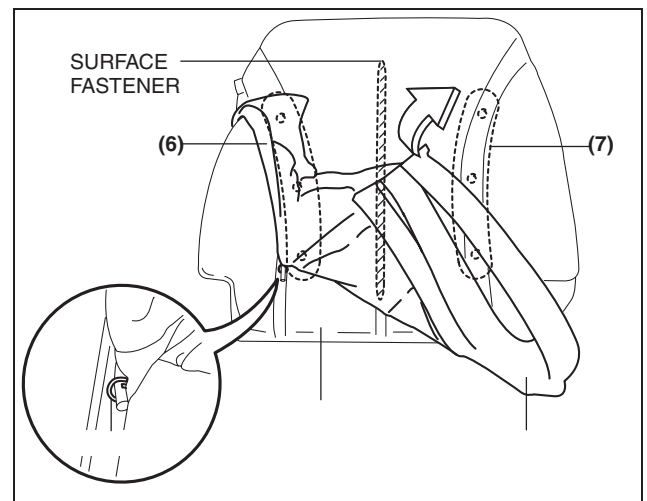
adejjw00001864

7. Remove the seat back trim and the seat back pad as a single unit from the seat frame by pulling them in the direction of the arrow.



am2zzw0000378

8. Partially peel back the seat back trim from the seat back pad, remove rings C in the order of (6), (7) shown in the figure, remove the surface fastener, then remove the seat back trim.
9. Install in the reverse order of removal.



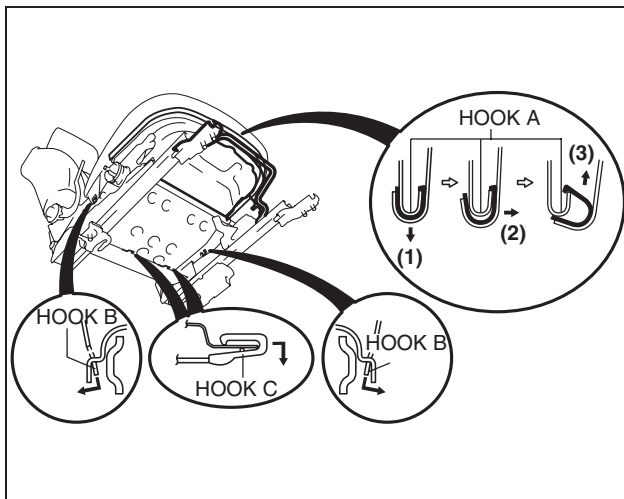
am2zzw0000375

SEATS

FRONT SEAT CUSHION TRIM REMOVAL/INSTALLATION

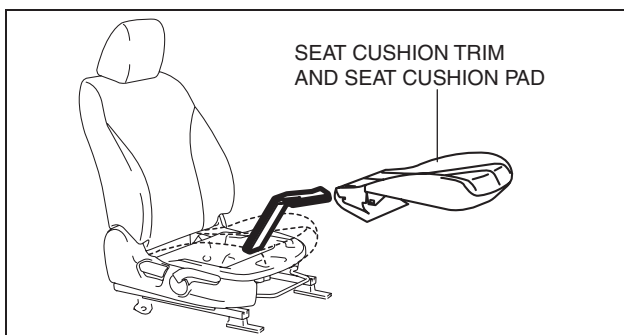
id091300487800

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**. (Vehicles with side air bags)
3. Disconnect the negative battery cable. (Vehicles without side air bags)
4. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
5. Remove the front seat side cover. (See 09-13-22 FRONT SEAT SIDE COVER REMOVAL/INSTALLATION.)
6. Detach hook A by sliding it in the order of (1), (2), and (3) as shown in the figure.
7. Detach hook B and C in the direction of the arrow shown in the figure.



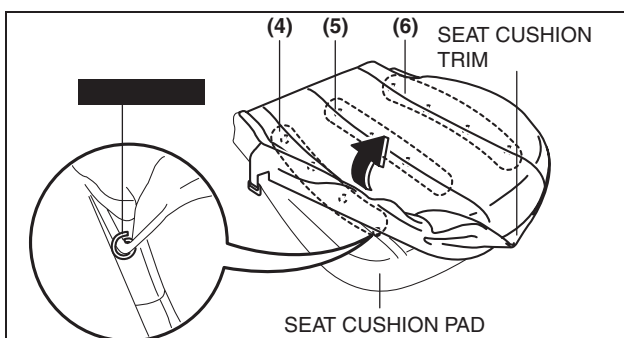
am2zzw0000246

8. Remove the seat cushion trim and the seat cushion pad from the seat frame as a single unit.



am2zzw0000498

9. Remove rings C in the order of (4), (5), and (6) as shown in the figure, then remove the seat cushion trim from the seat cushion pad in the direction of the arrow shown in the figure.
10. Install in the reverse order of removal.



am2zzw0000375

FRONT SEAT SIDE COVER REMOVAL/INSTALLATION

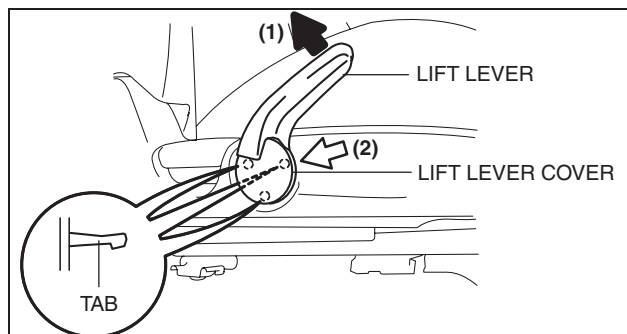
id091300433300

R.H.D.

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**. (Vehicles with side air bags)
3. Disconnect the negative battery cable. (Vehicles without side air bags)
4. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)

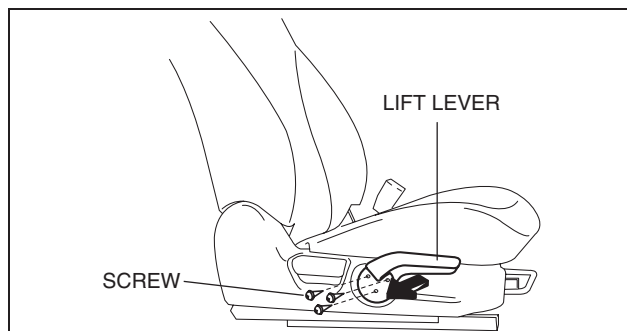
SEATS

5. Operate the lift lever in the direction of arrow (1) shown in the figure. (Right side of the driver's seat) (Vehicles with seat lifter)
6. Insert a fastener remover from the position of arrow (2) shown in the figure, and remove the lift lever cover by disengaging the tab. (Right side of the driver's seat) (Vehicles with seat lifter)



am2zzw0000213

7. Remove the screws, then remove the lift lever in the direction of the arrow. (Right side of the driver's seat) (Vehicles with seat lifter)

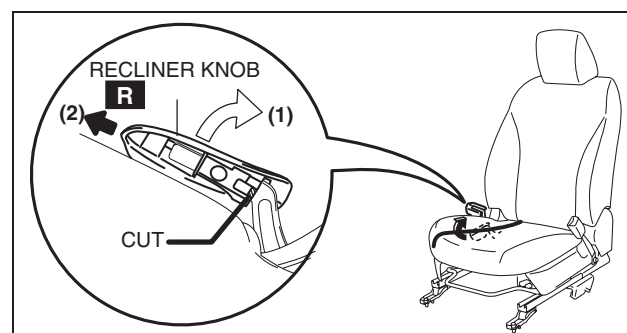


am2zzw0000377

8. After operating the recliner knob in the upward direction (1), cut the area indicated in the figure, then remove the recliner knob in the direction of arrow (2).

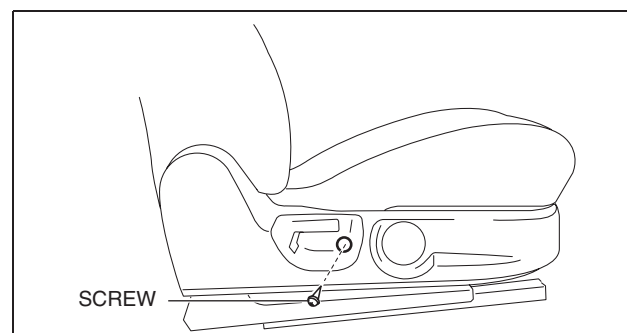
Caution

- The seat back folds forward when the recliner knob is operated. Be careful when operating the recliner knob.



adejjw00002335

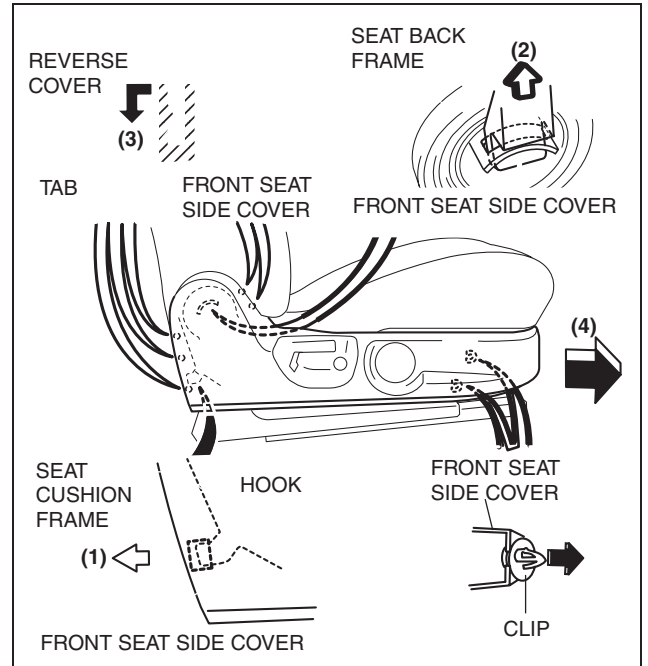
9. Remove the screw.



am2zzw0000377

SEATS

10. Pull the front seat side cover in the order of (1), (2), (3) shown in the figure to disengage the clip, hook and tab.
11. Remove the front seat side cover from the hook by sliding the front seat side cover in the direction of arrow (4) shown in the figure.
12. Install in the reverse order of removal.



am2zzw0000377

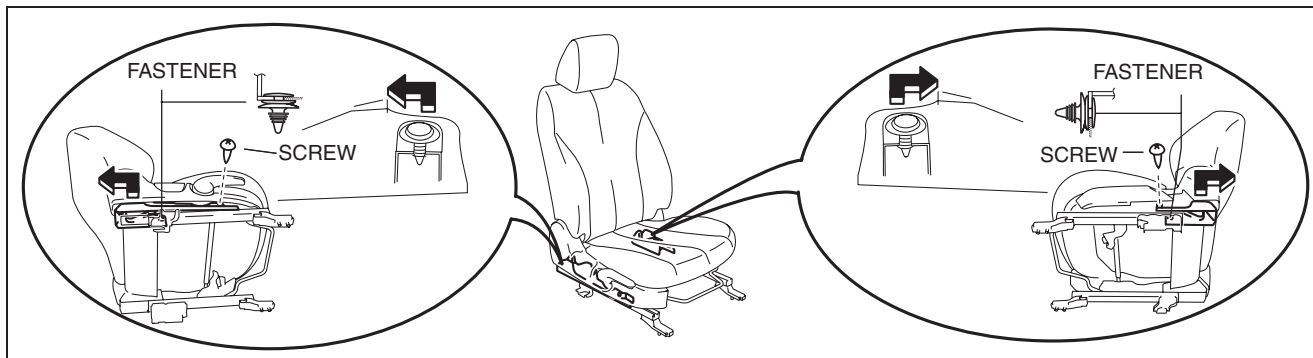
SEATS

FRONT SEAT RAIL COVER REMOVAL/INSTALLATION

id091300555500

R.H.D.

1. Remove the screws.



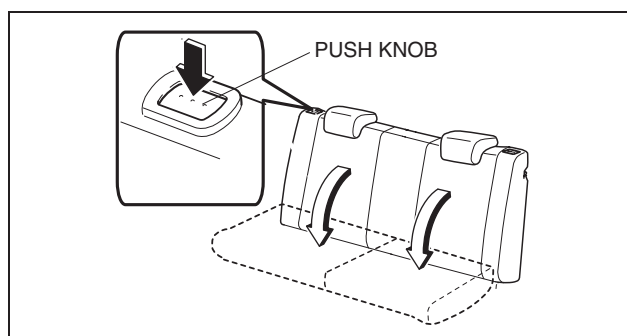
am2zzw0000377

2. Slide the front seat rail cover in the direction of the arrow shown in the figure to remove it from the fasteners.
3. Remove the front seat rail cover.
4. Install in the reverse order of removal.

REAR SEAT BACK REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles]

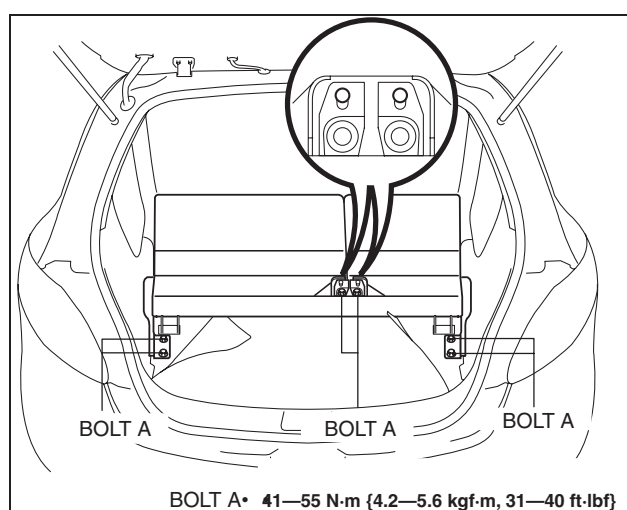
id0913004260z3

1. Remove the rear seat cushion. (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
2. Remove the rear buckle installation bolt.
3. Press the push knob to fold the rear seat back.



am2zzw0000058

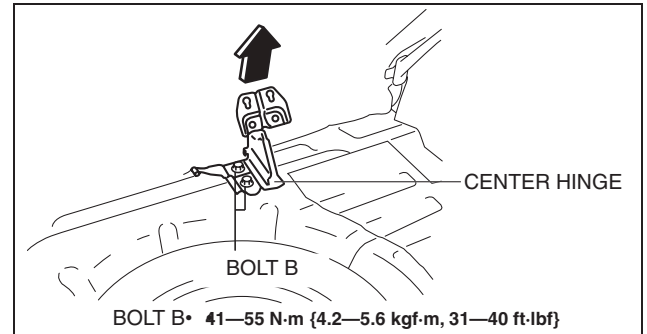
4. Remove bolts A.
5. Remove the rear seat back from the rear seat bracket by pulling the rear seat back in the direction of the arrow shown in the figure.



am2zzw0000445

SEATS

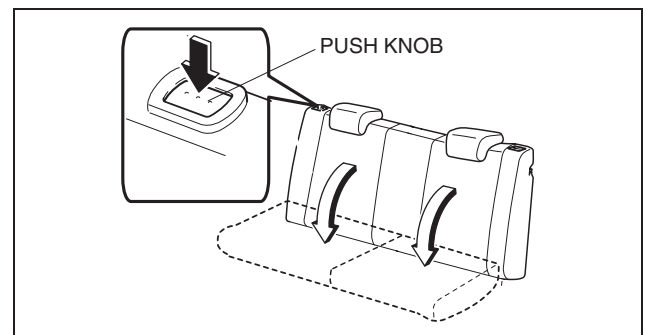
6. Remove bolts B and remove the center hinge.
7. Install in the reverse order of removal.



REAR SEAT BACK REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles]

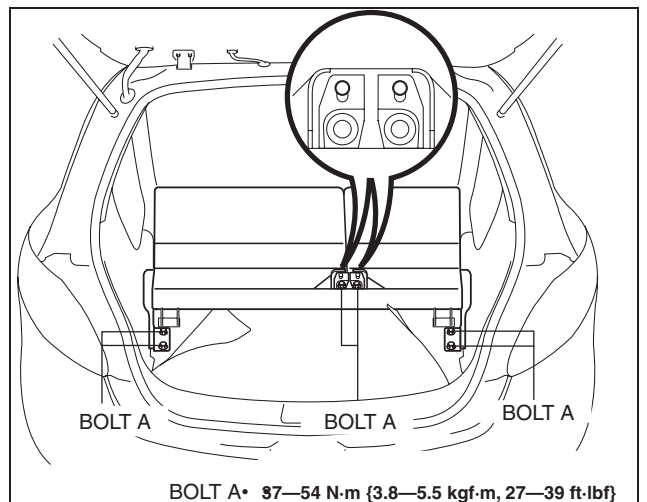
id0913004260z4

1. Remove the rear seat cushion. (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
2. Remove the rear buckle installation bolt.
3. Press the push knob to fold the rear seat back.



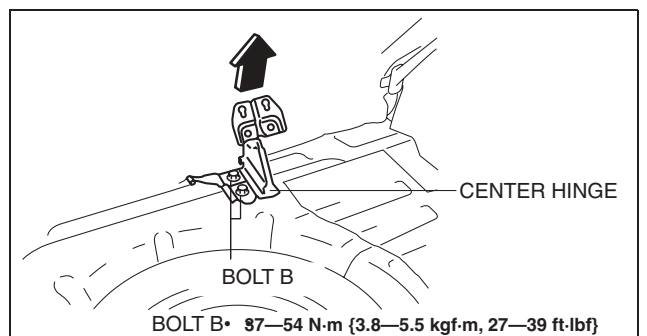
am2zzw0000058

4. Remove bolts A.
5. Remove the rear seat back from the rear seat bracket by pulling the rear seat back in the direction of the arrow shown in the figure.



am2zzw0000445

6. Remove bolts B and remove the center hinge.
7. Install in the reverse order of removal.



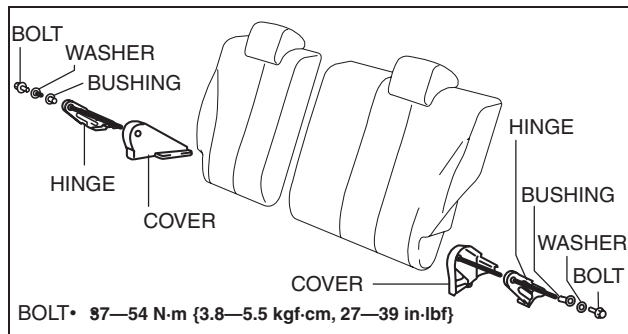
am2zzw0000445

SEATS

REAR SEAT BACK FRAME REMOVAL/INSTALLATION

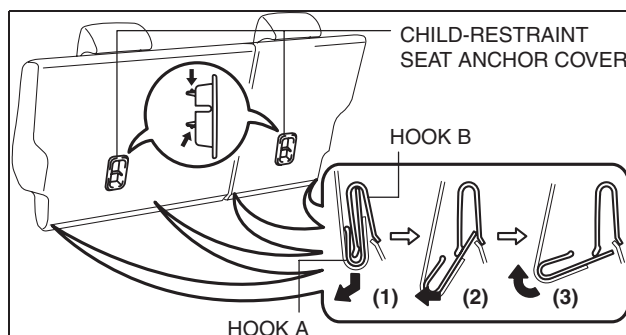
id091300450000

1. Remove the rear seat cushion. (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
2. Remove the rear buckle installation bolt.
3. Remove the rear seat back. (See 09-13-26 REAR SEAT BACK REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-27 REAR SEAT BACK REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
4. Remove the bolt, then remove the bushing, washer, hinge, and the cover.



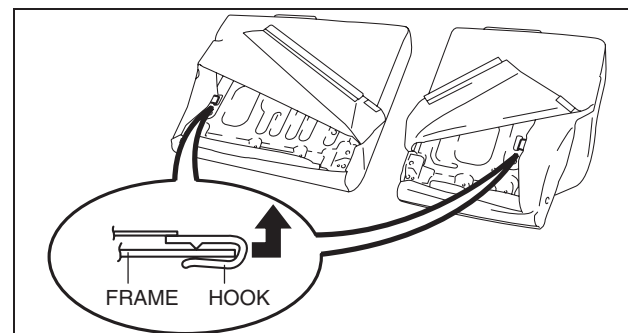
adejjw00001878

5. Remove the child-restraint seat anchor covers.
6. Slide hooks A in the order of (1), (2), (3) shown in the figure to detach them from hooks B.



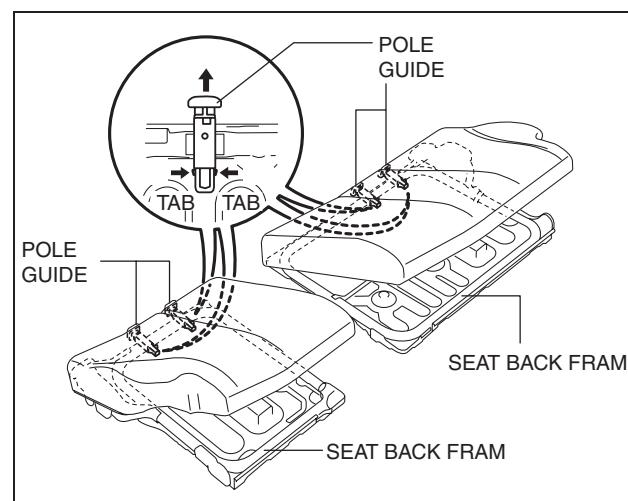
adejjw00003478

7. Move the hooks in the direction of the arrow shown in the figure to remove them from the frame.



am2zzw0000220

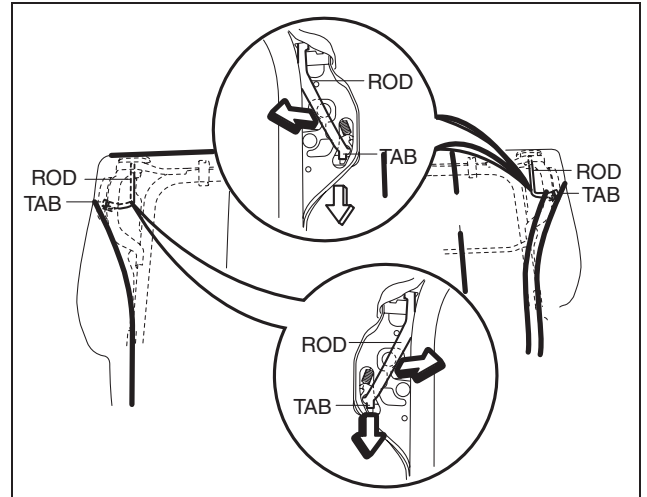
8. Peel back the rear seat trim, release the pole guide tabs in the direction of arrow (4) shown in the figure, then pull out the pole guides in the direction of arrow (5).



am2zzw0000221

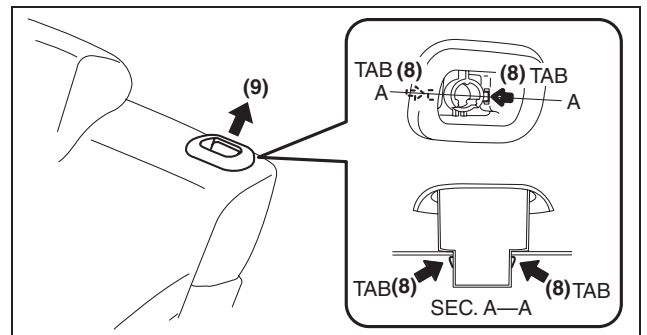
SEATS

9. Release the tab of the rod by pulling it in the direction of arrow (6) shown in the figure.
10. Release the rod from the frame by pulling it in the direction of arrow (7) shown in the figure.



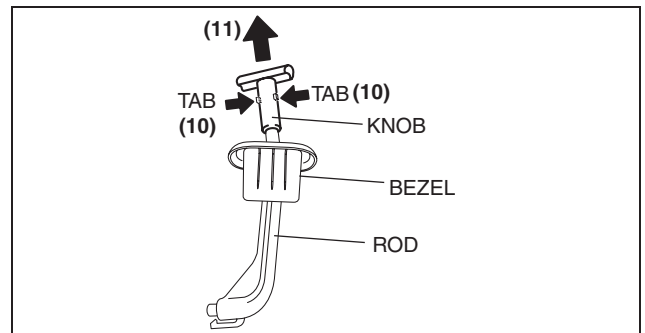
am2zzw0000377

11. While releasing the tabs of the bezel in the direction of arrow (8) shown in the figure, remove the bezel, recliner knob, and rod as a single unit by pulling them in the direction of arrow (9).



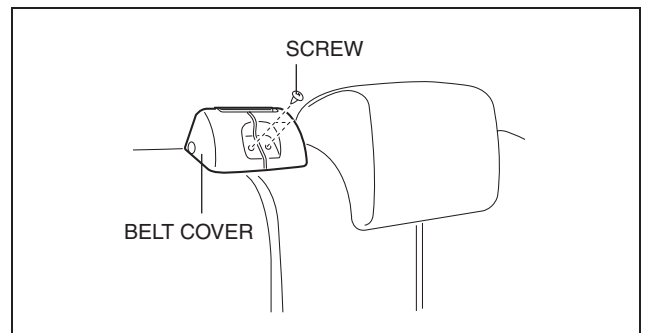
am2zzw0000377

12. While releasing the tabs of the recliner knob in the direction of arrow (10) shown in the figure, pull the recliner knob in the direction of arrow (11) to disassemble the recliner knob, bezel, and the rod.



am2zzw0000221

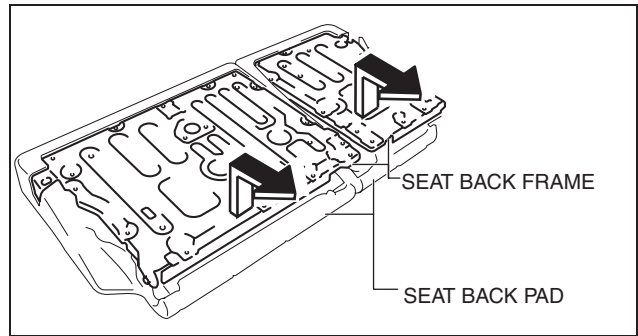
13. Remove the screws, then remove the belt cover.



am2zzw0000059

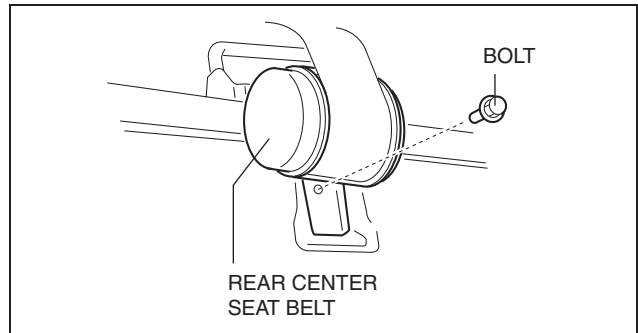
SEATS

14. Remove the seat back frame from the seat back pad by pulling it in the direction of the arrow.



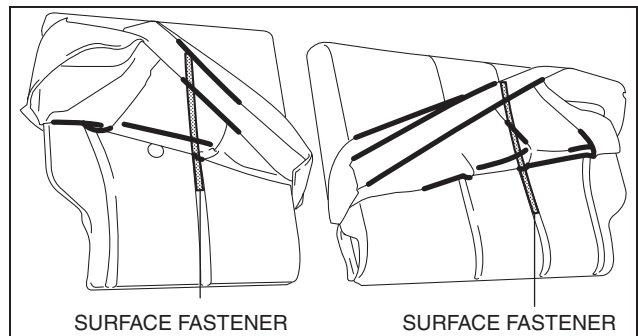
am2zzw0000377

15. Remove the bolt, then remove the rear center seat belt.



am2zzw0000059

16. Remove the seat back trim from the seat back pad by peeling off the surface fastener while opening the seat back trim.
17. Install in the reverse order of removal.



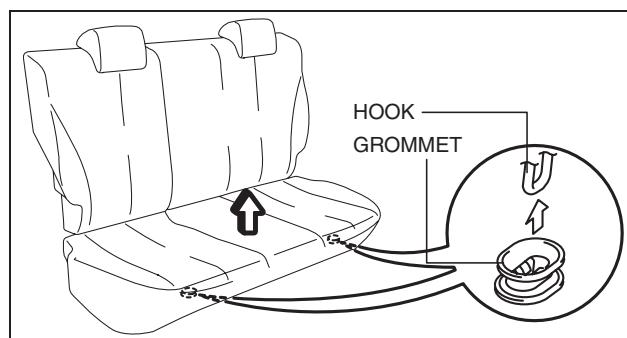
adejjw00001886

SEATS

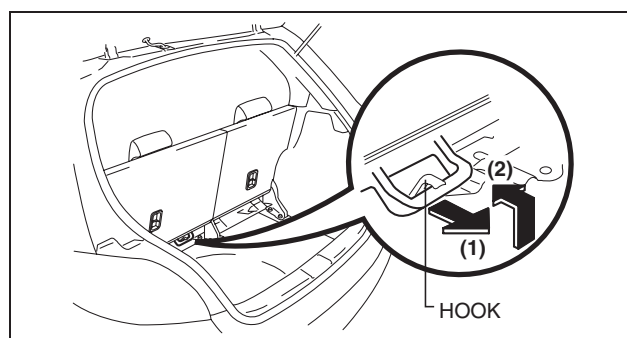
REAR SEAT CUSHION REMOVAL/INSTALLATION

id091300555800

1. Detach the hooks from the grommets by pulling the rear seat cushion in the direction of the arrow shown in the figure.



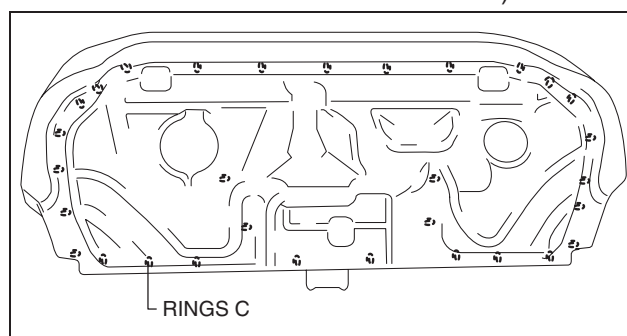
2. From the backside of the seat, detach the hook in the direction of arrow (1) shown in the figure, then remove the rear seat cushion by pulling it in the direction of arrow (2).
3. Install in the reverse order of removal.



REAR SEAT CUSHION TRIM REMOVAL/INSTALLATION

id091300455800

1. Remove the rear seat cushion. (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
2. Remove rings C, then remove the seat cushion trim from the seat cushion pad.
3. Install in the reverse order of removal.



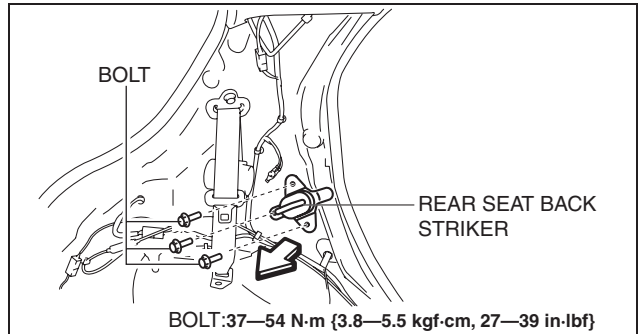
REAR SEAT BACK STRIKER REMOVAL/INSTALLATION

id091300426400

1. Disconnect the negative battery cable.
2. Remove the rear scuff plate. (See 09-17-58 REAR SCUFF PLATE REMOVAL/INSTALLATION.)
3. Remove the rear seat back. (See 09-13-26 REAR SEAT BACK REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-27 REAR SEAT BACK REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
4. Remove the rear seat cushion. (See 09-13-31 REAR SEAT CUSHION REMOVAL/INSTALLATION.)
5. Remove the trunk end trim. (See 09-17-75 TRUNK END TRIM REMOVAL/INSTALLATION.)
6. Remove the trunk side trim. (See 09-17-70 TRUNK SIDE TRIM REMOVAL/INSTALLATION.) (See 09-17-73 TRUNK SIDE TRIM REMOVAL/INSTALLATION [3HB])
7. C-pillar trim (See 09-17-46 C-PILLAR TRIM REMOVAL/INSTALLATION) (See 09-17-52 C-PILLAR TRIM REMOVAL/INSTALLATION [3HB])

SEATS

8. Remove the bolts, then remove the rear seat back striker in the direction of the arrow shown in the figure.
9. Install in the reverse order of removal.

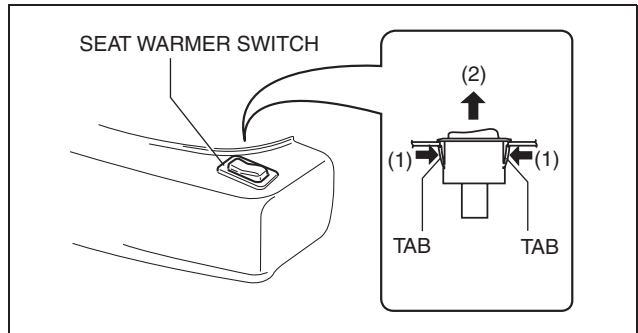


am2zzw0000449

SEAT WARMER SWITCH REMOVAL/INSTALLATION

id091300716000

1. Disconnect the negative battery cable.
2. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
3. Remove the front seat side cover. (See 09-13-22 FRONT SEAT SIDE COVER REMOVAL/INSTALLATION.)
4. While pressing the tab of the arrow (1) shown in the figure, remove the seat warmer switch in the direction of the arrow (2).
5. Install in the reverse order of removal.



am2zzw0000201

SEAT WARMER SWITCH INSPECTION

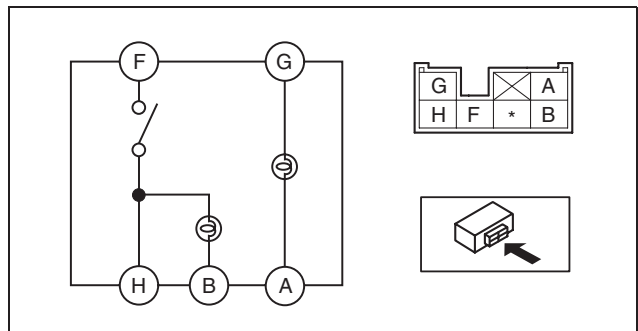
id091300716100

1. Disconnect the negative battery cable.
2. Remove the seat warmer switch. (See 09-13-32 SEAT WARMER SWITCH REMOVAL/INSTALLATION.)
3. Inspect for continuity between the seat warmer switch terminals using an ohmmeter.
 - If not as specified, replace the seat warmer switch.

○—○ : Continuity ○⊗○ : Bulb

Switch position	Terminal				
	B	H	F	A	G
ON	○⊗○	○—○	○—○	○⊗○	○—○
OFF	○⊗○	○—○		○⊗○	○—○

am2zzw0000201



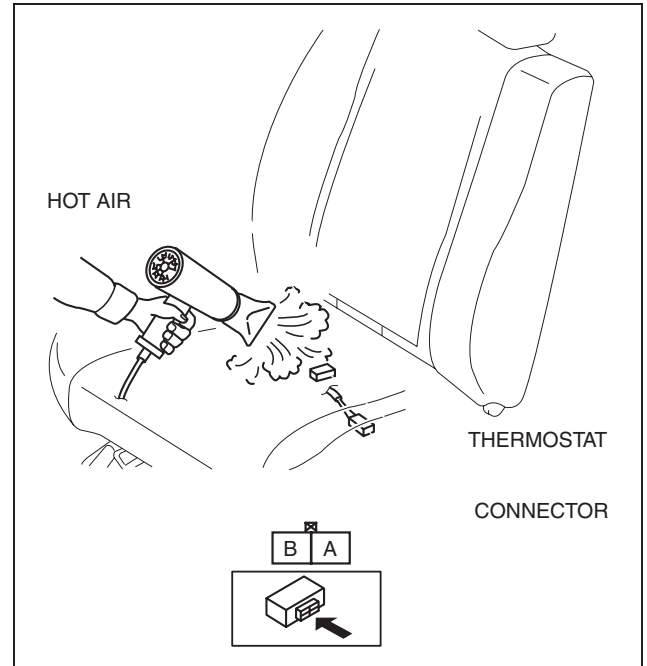
am2zzw0000203

SEATS

SEAT WARMER UNIT INSPECTION

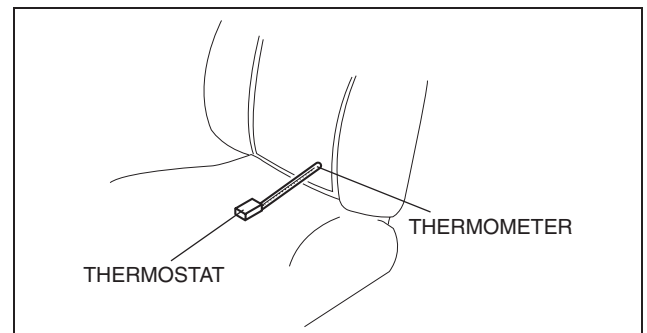
id091300716200

1. Turn the ignition to the LOCK position.
2. Disconnect the negative battery cable and wait **1 min or more**. (Vehicles with side air bags)
3. Disconnect the negative battery cable. (Vehicles without side air bags)
4. Remove the front seat. (See 09-13-4 FRONT SEAT REMOVAL/INSTALLATION [AutoAlliance (AAT) Thailand manufactured vehicles].) (See 09-13-6 FRONT SEAT REMOVAL/INSTALLATION [Except AutoAlliance (AAT) Thailand manufactured vehicles].)
5. Remove the front seat cushion trim. (See 09-13-22 FRONT SEAT CUSHION TRIM REMOVAL/INSTALLATION.)
6. While inspecting for continuity between the connector terminals A and B, use a dryer to warm the thermostat of the seat warmer unit on seat cushion.



am2zzw0000202

7. When the indication on the ohmmeter is no continuity, turn off the dryer, then use a thermometer to measure the temperature of the thermostat.
8. Verify that the temperature is **approx. 29 °C {84 °F}**.



am2zzw0000202

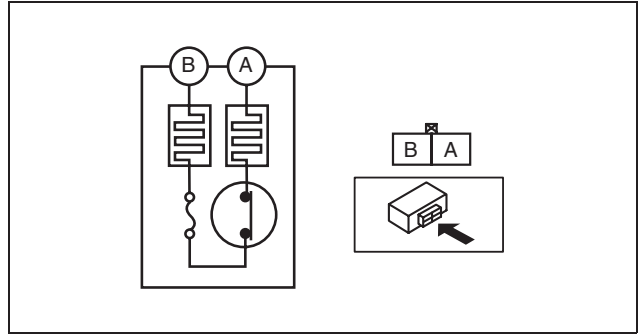
9. Verify that there is continuity between terminals of the seat warmer unit's connector using an ohmmeter when temperature drops to **approx. 20 °C {68 °F}**.

Thermostat temperature	Terminal	
	A	B
More than approx. 29 °C {84 °F}		
Less than approx. 20 °C {68 °F}	○—○	○—○

am2zzw0000202

SEATS

- If not as indicated in the table, replace the front seat cushion.



am2zzw0000203

09-14 SECURITY AND LOCKS

SECURITY AND LOCKS LOCATION

INDEX	09-14-3
Locks and Openers	09-14-3
Keyless Entry System and Immobilizer System [Advanced Keyless and Start System]	09-14-9
Keyless Entry System and Immobilizer System [Keyless Entry System]	09-14-15
Theft-deterrent System	09-14-16
FRONT OUTER HANDLE	
REMOVAL/INSTALLATION	09-14-17
5HB, 4SD	09-14-17
3HB	09-14-20
Outer handle bracket Installation Note	09-14-22
REAR OUTER HANDLE	
REMOVAL/INSTALLATION	09-14-23
Handle Protector Installation Note	09-14-27
Outer handle bracket Installation Note	09-14-27
INNER HANDLE	
REMOVAL/INSTALLATION	09-14-27
Front Inner Handle	09-14-27
Rear inner handle(5HB, 4SD)	09-14-27
BONNET LATCH AND RELEASE LEVER	
REMOVAL/INSTALLATION	09-14-28
Bonnet latch	09-14-28
Bonnet release lever	09-14-29
BONNET RELEASE CABLE	
REMOVAL/INSTALLATION	09-14-30
BONNET LATCH SWITCH	
INSPECTION	09-14-31
FUEL-FILLER LID OPENER CABLE	
REMOVAL/INSTALLATION [4SD]	09-14-32
R.H.D.	09-14-34
FUEL-FILLER LID OPENER AND LEVER	
REMOVAL/INSTALLATION [4SD]	09-14-36
Fuel-filler Lid Opener	09-14-36
Fuel-filler Lid Opener Lever	09-14-39
FUEL-FILLER LID OPENER CABLE	
REMOVAL/INSTALLATION [5HB]	09-14-40
R.H.D.	09-14-40
FUEL-FILLER LID OPENER AND LEVER	
REMOVAL/INSTALLATION [5HB]	09-14-43
Fuel-filler Lid Opener	09-14-43
Fuel-filler Lid Opener Lever	09-14-46
FUEL-FILLER LID OPENER CABLE	
REMOVAL/INSTALLATION [3HB]	09-14-47
R.H.D.	09-14-47
FUEL-FILLER LID OPENER AND LEVER	
REMOVAL/INSTALLATION [3HB]	09-14-51
Fuel-filler Lid Opener	09-14-51
Fuel-filler Lid Opener Lever	09-14-54
FRONT DOOR KEY CYLINDER	
REMOVAL/INSTALLATION	09-14-55
5HB, 4SD	09-14-55
3HB	09-14-59
FRONT DOOR KEY CYLINDER SWITCH	
INSPECTION	09-14-62
FRONT DOOR LATCH AND LOCK ACTUATOR	
REMOVAL/INSTALLATION	09-14-63
5HB, 4SD	09-14-63
3HB	09-14-65
FRONT DOOR LATCH AND LOCK ACTUATOR INSPECTION	09-14-67
R.H.D.	09-14-70
FRONT DOOR LOCK ACTUATOR INSPECTION	09-14-72
FRONT DOOR LATCH SWITCH INSPECTION	09-14-74
DOOR LOCK-LINK SWITCH INSPECTION	09-14-75
Font Door Lock-link Inspection	09-14-75
Rear Door Lock-link Inspection	09-14-77
DOOR LOCK STRIKER	
REMOVAL/INSTALLATION	09-14-78
REAR DOOR LATCH AND LOCK ACTUATOR	
REMOVAL/INSTALLATION	09-14-79
5HB	09-14-79
4SD	09-14-79
REAR DOOR LATCH AND LOCK ACTUATOR INSPECTION	09-14-80
Double Locking System	09-14-81
Power Door Lock System	09-14-82
REAR DOOR LATCH SWITCH INSPECTION	09-14-83
5HB	09-14-83
4SD	09-14-84
REAR DOOR LOCK ACTUATOR INSPECTION	09-14-85
5HB	09-14-85
4SD	09-14-87
LIFTGATE LATCH AND LOCK ACTUATOR	
REMOVAL/INSTALLATION	09-14-88
LIFTGATE LATCH AND LOCK ACTUATOR INSPECTION	09-14-89
LIFTGATE LOCK ACTUATOR INSPECTION	09-14-89
LIFTGATE LATCH SWITCH INSPECTION	09-14-90
LIFTGATE OPENER SWITCH	
REMOVAL/INSTALLATION	09-14-91
LIFTGATE OPENER SWITCH INSPECTION	09-14-92
LIFTGATE LOCK STRIKER	
REMOVAL/INSTALLATION	09-14-93
TRUNK LID LATCH MANUAL RELEASE PROCEDURE	09-14-93
TRUNK LID LATCH AND RELEASE ACTUATOR	
REMOVAL/INSTALLATION	09-14-94
TRUNK LID LATCH AND RELEASE ACTUATOR INSPECTION	09-14-94
TRUNK LID RELEASE ACTUATOR INSPECTION	09-14-95
TRUNK LID LATCH SWITCH INSPECTION	09-14-96
TRUNK LID OPENER SWITCH	
REMOVAL/INSTALLATION	09-14-97
TRUNK LID OPENER SWITCH INSPECTION	09-14-97

TRUNK LID LOCK STRIKER	
REMOVAL/INSTALLATION.....	09-14-98
KEYLESS CONTROL MODULE	
REMOVAL/INSTALLATION [ADVANCED	
KEYLESS AND START SYSTEM]	09-14-98
KEYLESS CONTROL MODULE	
INSPECTION [ADVANCED KEYLESS	
AND START SYSTEM]	09-14-99
Terminal Voltage Table (Reference) ...	09-14-99
Generated pulse (reference)	09-14-101
KEYLESS CONTROL MODULE	
CONFIGURATION [ADVANCED	
KEYLESS AND START SYSTEM]	09-14-102
THEFT-DETERRENT SIREN	
REMOVAL/INSTALLATION.....	09-14-102
5HB	09-14-102
3HB	09-14-103
THEFT-DETERRENT SIREN	
INSPECTION	09-14-104
5HB	09-14-104
3HB	09-14-106
THEFT-DETERRENT HORN	
REMOVAL/INSTALLATION.....	09-14-107
5HB	09-14-107
4SD	09-14-108
KEYLESS RECEIVER	
REMOVAL/INSTALLATION [ADVANCED	
KEYLESS AND START SYSTEM]	09-14-108
KEYLESS RECEIVER	
REMOVAL/INSTALLATION [KEYLESS	
ENTRY SYSTEM]	09-14-109
KEYLESS RECEIVER INSPECTION	
[ADVANCED KEYLESS AND	
START SYSTEM].....	09-14-109
Terminal Voltage Table (Reference) ...	09-14-110
KEYLESS RECEIVER INSPECTION	
[KEYLESS ENTRY SYSTEM].....	09-14-110
4-pin Connector Type.....	09-14-110
6-pin Connector Type.....	09-14-110
THEFT-DETERRENT CONTROL MODULE	
REMOVAL/INSTALLATION.....	09-14-111
THEFT-DETERRENT CONTROL MODULE	
INSPECTION	09-14-112
Except AutoAlliance Thailand (AAT)	
manufactured vehicles	09-14-112
AutoAlliance Thailand (AAT)	
manufactured vehicles	09-14-116
Generated pulse (reference)	09-14-117
TRANSMITTER BATTERY	
REPLACEMENT [KEYLESS ENTRY	
SYSTEM].....	09-14-118
TRANSMITTER ID CODE	
REGISTRATION [KEYLESS ENTRY	
SYSTEM].....	09-14-120
ADVANCED KEY BATTERY	
REPLACEMENT [ADVANCED KEYLESS	
AND START SYSTEM]	09-14-122
ADVANCED KEY ID CODE	
REGISTRATION [ADVANCED KEYLESS	
AND START SYSTEM]	09-14-123
Two Programmed Advanced Keys	
Available.....	09-14-123
Using the M-MDS.....	09-14-124
CLEARING ADVANCED KEY	
[ADVANCED KEYLESS AND START	
SYSTEM]	09-14-124
CUSTOMIZED FUNCTION SETTING	
PROCEDURE [ADVANCED KEYLESS	
AND START SYSTEM].....	09-14-125
KEYLESS ANTENNA	
REMOVAL/INSTALLATION [ADVANCED	
KEYLESS AND START SYSTEM].....	09-14-125
3HB, 5HB	09-14-125
4SD	09-14-127
KEYLESS BEEPER	
REMOVAL/INSTALLATION [ADVANCED	
KEYLESS AND START SYSTEM].....	09-14-130
3HB, 5HB	09-14-130
4SD	09-14-131
KEYLESS BEEPER INSPECTION	
[ADVANCED KEYLESS AND START	
SYSTEM]	09-14-131
REQUEST SWITCH	
REMOVAL/INSTALLATION [ADVANCED	
KEYLESS AND START SYSTEM].....	09-14-132
REQUEST SWITCH INSPECTION	
[ADVANCED KEYLESS AND START	
SYSTEM]	09-14-132
COIL ANTENNA	
REMOVAL/INSTALLATION [ADVANCED	
KEYLESS AND START SYSTEM].....	09-14-133
COIL ANTENNA REMOVAL/INSTALLATION	
[KEYLESS ENTRY SYSTEM]	09-14-133
STEERING LOCK UNIT ID CODE	
REGISTRATION [ADVANCED KEYLESS	
AND START SYSTEM].....	09-14-134
INTRUDER SENSOR	
REMOVAL/INSTALLATION	09-14-135
INTRUDER SENSOR INSPECTION.....	09-14-135
Terminal Voltage Table (Reference) ...	09-14-136
Continuity Inspection Of Short Wiring Harness	
Connector	09-14-136
IMMOBILIZER SYSTEM-RELATED PARTS	
PROGRAMMING [ADVANCED KEYLESS	
AND START SYSTEM].....	09-14-136
Foreword	09-14-136
Selection of Procedure for Immobilizer	
System-Related Parts	
Programming.....	09-14-137
M-MDS Connecting Procedure	09-14-137
No.1 Additional Key Programming	
Procedure (Using Two Valid Keys) ...	09-14-138
No. 2 Additional Key Programming	
Procedure (Using the M-MDS)	09-14-139
No.3 Additional Key Programming	
Procedure Changing	09-14-140
No.4 Programming Procedure Due to	
PCM Replacement	09-14-141
No.5 Programming Procedure Due to	
Steering Lock Unit Replacement.....	09-14-142
No.6 Programming Procedure Due to	
Keyless Control Module	
Replacement.....	09-14-144
No.7 Programming Procedure Due to	
Simultaneous Replacement of Immobilizer	
System-related Parts (PCM, Keyless	
Control Module, and Steering	
Lock Unit)	09-14-147

IMMOBILIZER SYSTEM-RELATED PARTS**PROGRAMMING [KEYLESS ENTRY****SYSTEM]..... 09-14-150**

Foreword 09-14-150

Selection of Procedure for Immobilizer

System-Related Parts Programming . 09-14-150

M-MDS Connecting Procedure 09-14-151

No.1 Additional Key Programming

Procedure (Using Two Valid Keys) . . . 09-14-151

No. 2 Additional Key Programming

Procedure (Using the M-MDS)..... 09-14-152

No.3 Additional Key Programming

Procedure Changing.....09-14-153

No.4 Programming Procedure Due to

PCM Replacement09-14-154

No.5 Programming Procedure Due to

Instrument Cluster Replacement.09-14-155

No.6 Programming Procedure Due to

Simultaneous Replacement of

Immobilizer System-related Parts

(PCM and Instrument Cluster)09-14-156

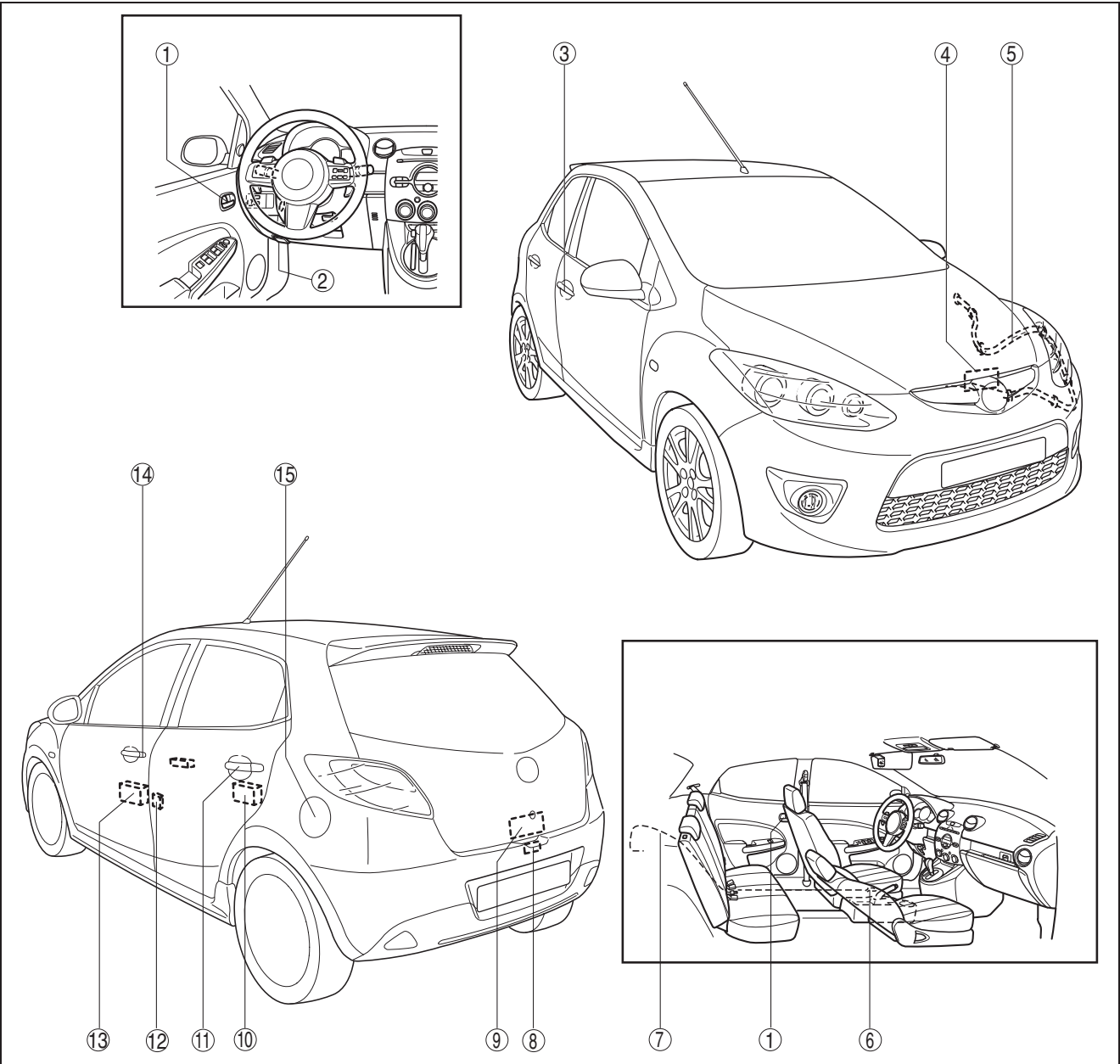
SECURITY ACCESS PROCEDURE09-14-158

SECURITY AND LOCKS

SECURITY AND LOCKS LOCATION INDEX

id091400428600

Locks and Openers 5HB



am2zzw0000348

1	Inner handle (See 09-14-27 INNER HANDLE REMOVAL/ INSTALLATION.)
---	---

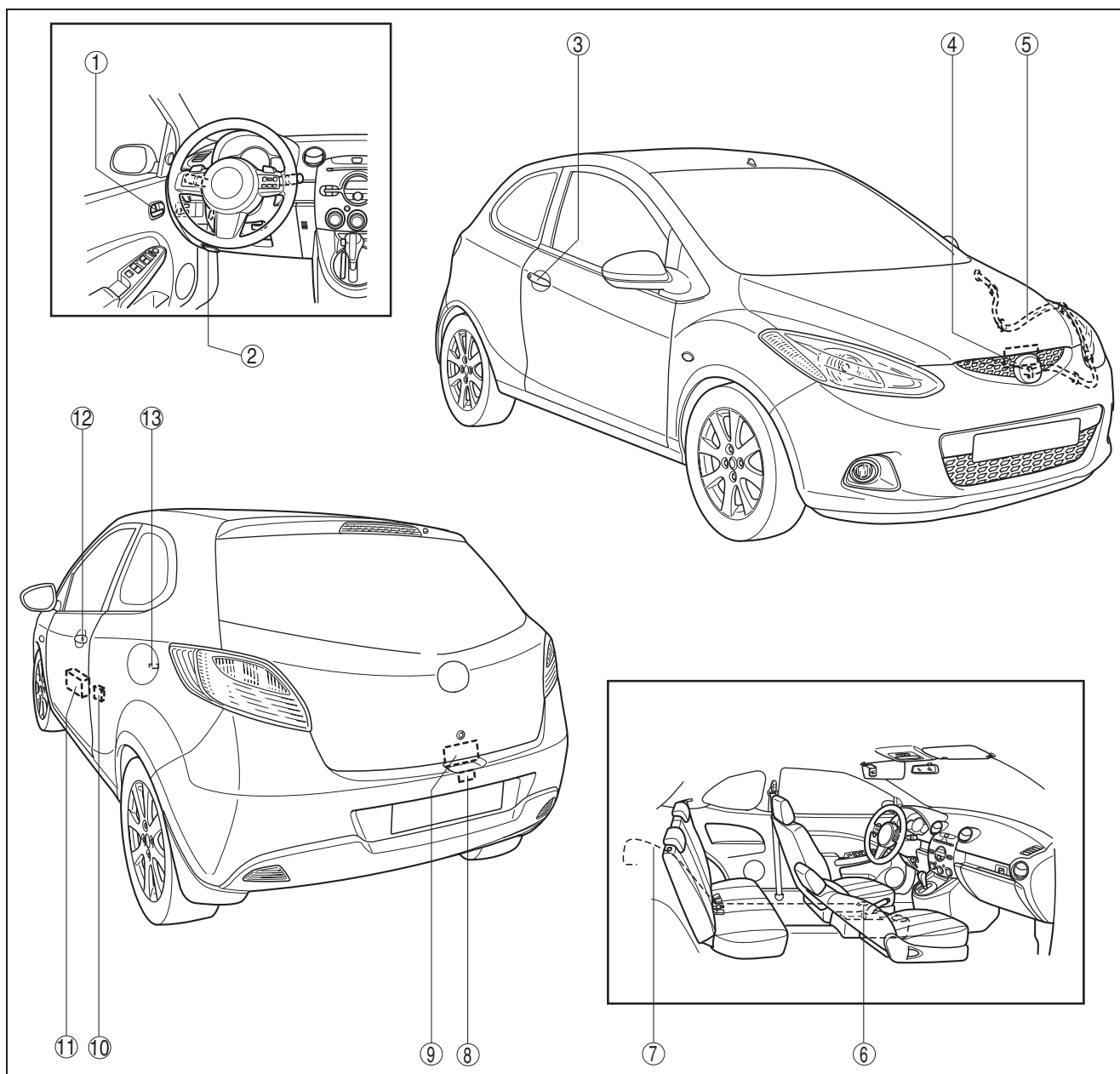
SECURITY AND LOCKS

2	Bonnet release lever (See 09-14-28 BONNET LATCH AND RELEASE LEVER REMOVAL/INSTALLATION.)
3	Front outer handle (See 09-14-17 FRONT OUTER HANDLE REMOVAL/INSTALLATION.)
4	Bonnet latch (See 09-14-28 BONNET LATCH AND RELEASE LEVER REMOVAL/INSTALLATION.)
5	Bonnet release cable (See 09-14-30 BONNET RELEASE CABLE REMOVAL/INSTALLATION.)
6	Fuel-filler lid opener lever (See 09-14-43 FUEL-FILLER LID OPENER AND LEVER REMOVAL/INSTALLATION [5HB].)
7	Fuel-filler lid opener cable (See 09-14-40 FUEL-FILLER LID OPENER CABLE REMOVAL/INSTALLATION [5HB].)
8	Liftgate lock striker (See 09-14-93 LIFTGATE LOCK STRIKER REMOVAL/INSTALLATION.)
9	Liftgate latch and lock actuator (See 09-14-88 LIFTGATE LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-89 LIFTGATE LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-90 LIFTGATE LATCH SWITCH INSPECTION.) (See 09-14-89 LIFTGATE LOCK ACTUATOR INSPECTION.)
10	Rear door latch and lock actuator (See 09-14-79 REAR DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-80 REAR DOOR LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-83 REAR DOOR LATCH SWITCH INSPECTION.)
11	Rear outer handle (See 09-14-23 REAR OUTER HANDLE REMOVAL/INSTALLATION.)
12	Door lock striker (See 09-14-78 DOOR LOCK STRIKER REMOVAL/INSTALLATION.)
13	Front door latch and lock actuator (See 09-14-63 FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-67 FRONT DOOR LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-74 FRONT DOOR LATCH SWITCH INSPECTION.) (See 09-14-72 FRONT DOOR LOCK ACTUATOR INSPECTION.) (See 09-14-75 DOOR LOCK-LINK SWITCH INSPECTION.) (See 09-14-62 FRONT DOOR KEY CYLINDER SWITCH INSPECTION.)
14	Front door key cylinder (See 09-14-55 FRONT DOOR KEY CYLINDER REMOVAL/INSTALLATION.)

15	Fuel-filler lid opener (See 09-14-43 FUEL-FILLER LID OPENER AND LEVER REMOVAL/INSTALLATION [5HB].)
----	---

SECURITY AND LOCKS

3HB



am2zzw0000328

1	Inner handle (See 09-14-27 INNER HANDLE REMOVAL/INSTALLATION.)
2	Bonnet release lever (See 09-14-28 BONNET LATCH AND RELEASE LEVER REMOVAL/INSTALLATION.)
3	Front outer handle (See 09-14-17 FRONT OUTER HANDLE REMOVAL/INSTALLATION.)
4	Bonnet latch (See 09-14-28 BONNET LATCH AND RELEASE LEVER REMOVAL/INSTALLATION.)
5	Bonnet release cable (See 09-14-30 BONNET RELEASE CABLE REMOVAL/INSTALLATION.)

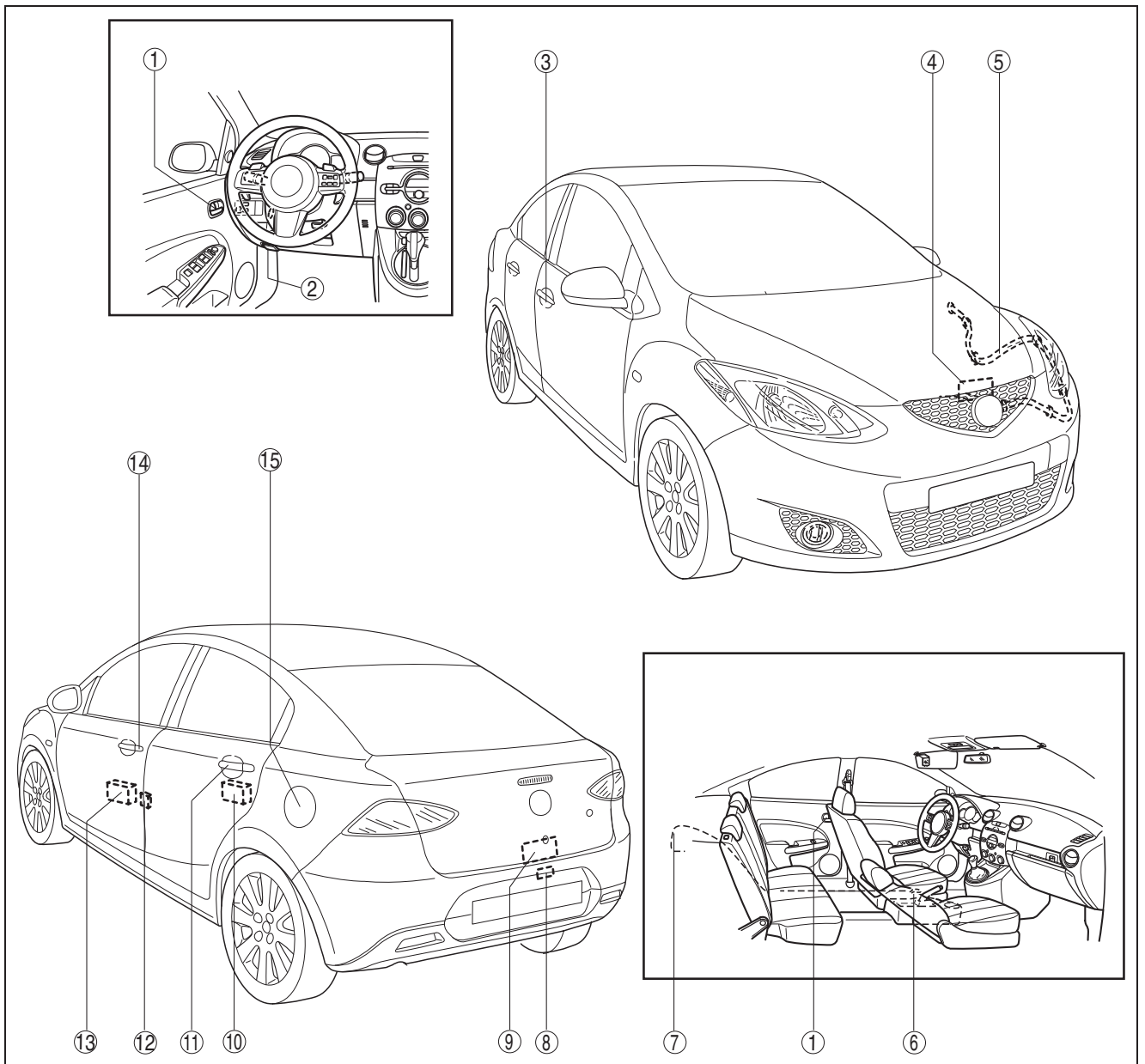
6	Fuel-filler lid opener lever (See 09-14-51 FUEL-FILLER LID OPENER AND LEVER REMOVAL/INSTALLATION [3HB].)
7	Fuel-filler lid opener cable (See 09-14-47 FUEL-FILLER LID OPENER CABLE REMOVAL/INSTALLATION [3HB].)
8	Liftgate lock striker (See 09-14-93 LIFTGATE LOCK STRIKER REMOVAL/INSTALLATION.)
9	Liftgate latch and lock actuator (See 09-14-88 LIFTGATE LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-89 LIFTGATE LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-90 LIFTGATE LATCH SWITCH INSPECTION.) (See 09-14-89 LIFTGATE LOCK ACTUATOR INSPECTION.)

SECURITY AND LOCKS

10	Door lock striker (See 09-14-78 DOOR LOCK STRIKER REMOVAL/INSTALLATION.)
11	Front door latch and lock actuator (See 09-14-63 FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/ INSTALLATION.) (See 09-14-67 FRONT DOOR LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-74 FRONT DOOR LATCH SWITCH INSPECTION.) (See 09-14-72 FRONT DOOR LOCK ACTUATOR INSPECTION.) (See 09-14-75 DOOR LOCK-LINK SWITCH INSPECTION.) (See 09-14-62 FRONT DOOR KEY CYLINDER SWITCH INSPECTION.)
12	Front door key cylinder (See 09-14-55 FRONT DOOR KEY CYLINDER REMOVAL/INSTALLATION.)
13	Fuel-filler lid opener (See 09-14-51 FUEL-FILLER LID OPENER AND LEVER REMOVAL/INSTALLATION [3HB].)

SECURITY AND LOCKS

4SD



am2ccw0000017

1	Inner handle (See 09-14-27 INNER HANDLE REMOVAL/INSTALLATION.)
2	Bonnet release lever (See 09-14-28 BONNET LATCH AND RELEASE LEVER REMOVAL/INSTALLATION.)
3	Front outer handle (See 09-14-17 FRONT OUTER HANDLE REMOVAL/INSTALLATION.)
4	Bonnet latch (See 09-14-28 BONNET LATCH AND RELEASE LEVER REMOVAL/INSTALLATION.)
5	Bonnet release cable (See 09-14-30 BONNET RELEASE CABLE REMOVAL/INSTALLATION.)

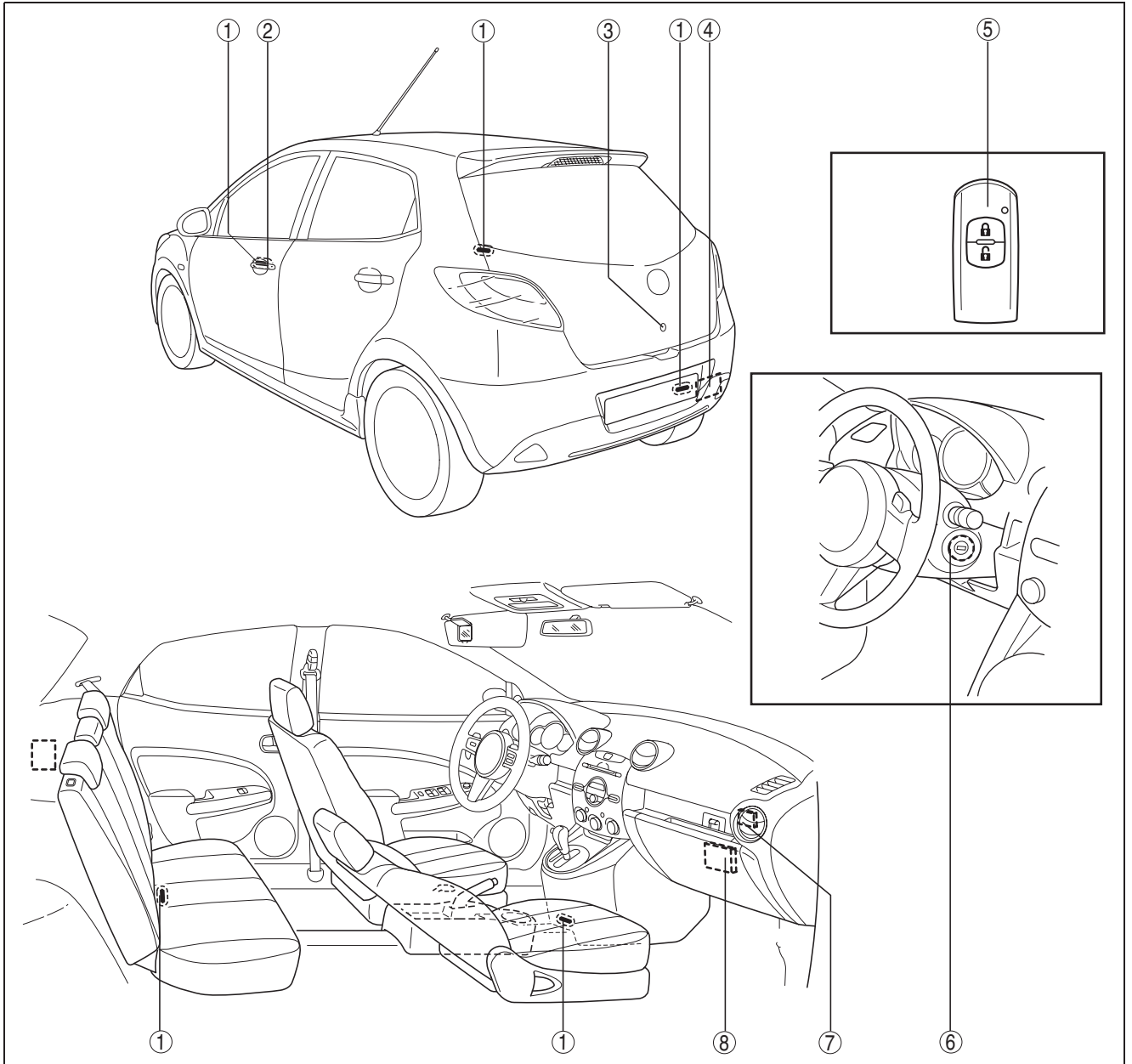
6	Fuel-filler lid opener lever (See 09-14-36 FUEL-FILLER LID OPENER AND LEVER REMOVAL/INSTALLATION [4SD].)
7	Fuel-filler lid opener cable (See 09-14-32 FUEL-FILLER LID OPENER CABLE REMOVAL/INSTALLATION [4SD].)
8	Trunk lid lock striker (See 09-14-98 TRUNK LID LOCK STRIKER REMOVAL/INSTALLATION.)
9	Trunk lid latch and release actuator (See 09-14-94 TRUNK LID LATCH AND RELEASE ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-94 TRUNK LID LATCH AND RELEASE ACTUATOR INSPECTION.) (See 09-14-90 LIFTGATE LATCH SWITCH INSPECTION.) (See 09-14-95 TRUNK LID RELEASE ACTUATOR INSPECTION.)

SECURITY AND LOCKS

10	Rear door latch and lock actuator (See 09-14-79 REAR DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-80 REAR DOOR LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-83 REAR DOOR LATCH SWITCH INSPECTION.)
11	Rear outer handle (See 09-14-23 REAR OUTER HANDLE REMOVAL/INSTALLATION.)
12	Door lock striker (See 09-14-78 DOOR LOCK STRIKER REMOVAL/INSTALLATION.)
13	Front door latch and lock actuator (See 09-14-63 FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.) (See 09-14-67 FRONT DOOR LATCH AND LOCK ACTUATOR INSPECTION.) (See 09-14-74 FRONT DOOR LATCH SWITCH INSPECTION.) (See 09-14-72 FRONT DOOR LOCK ACTUATOR INSPECTION.) (See 09-14-75 DOOR LOCK-LINK SWITCH INSPECTION.) (See 09-14-62 FRONT DOOR KEY CYLINDER SWITCH INSPECTION.)
14	Front door key cylinder (See 09-14-55 FRONT DOOR KEY CYLINDER REMOVAL/INSTALLATION.)
15	Fuel-filler lid opener (See 09-14-36 FUEL-FILLER LID OPENER AND LEVER REMOVAL/INSTALLATION [4SD].)

SECURITY AND LOCKS

Keyless Entry System and Immobilizer System [Advanced Keyless and Start System] 5HB



am2zzw0000328

1	Keyless antenna (See 09-14-125 KEYLESS ANTENNA REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].)
2	Request switch (See 09-14-132 REQUEST SWITCH REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-132 REQUEST SWITCH INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
3	Liftgate opener switch (See 09-14-91 LIFTGATE OPENER SWITCH REMOVAL/INSTALLATION.) (See 09-14-92 LIFTGATE OPENER SWITCH INSPECTION.)

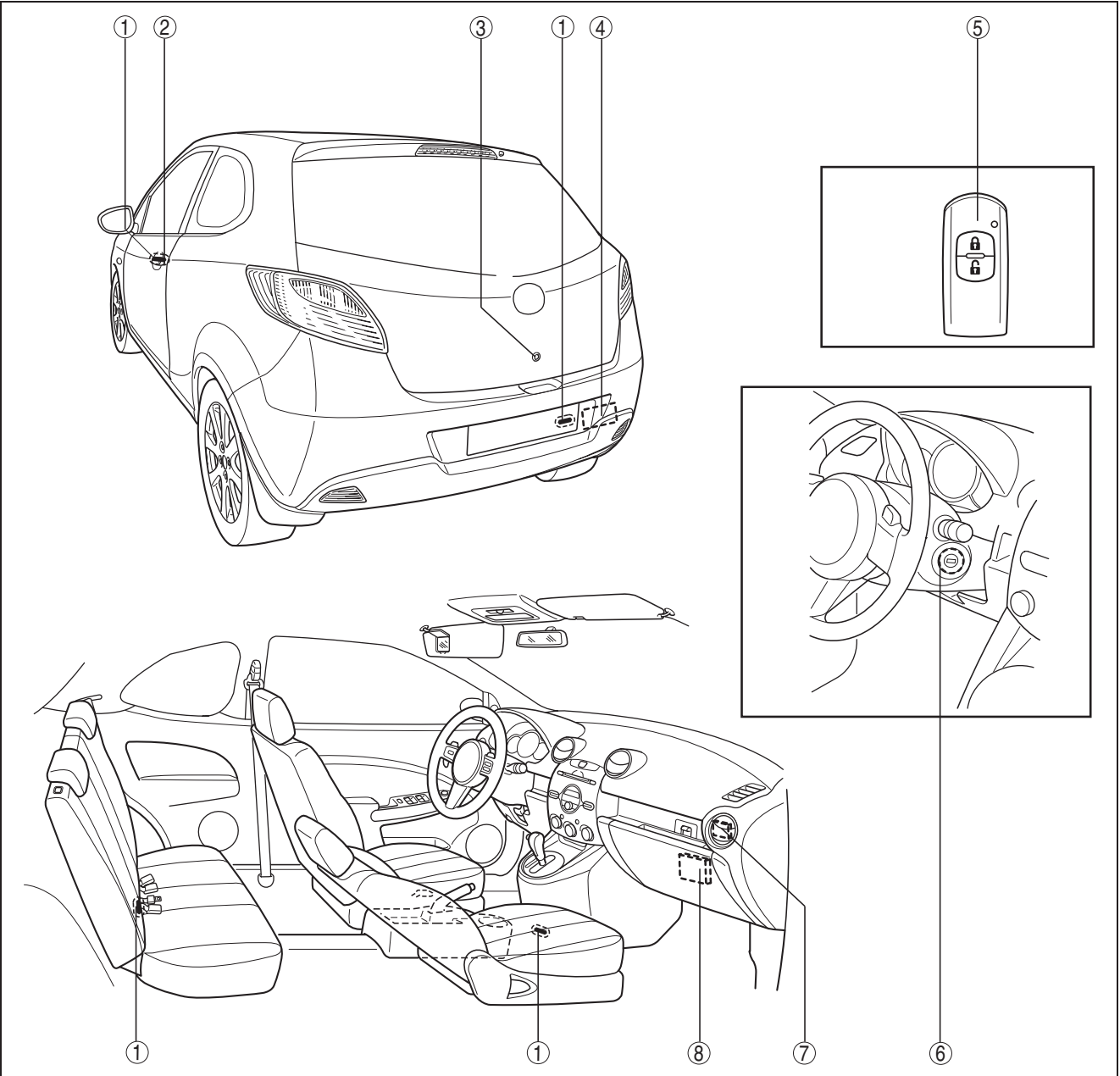
4	Keyless beeper (See 09-14-130 KEYLESS BEEPER REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-131 KEYLESS BEEPER INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
5	Advanced key (See 09-14-123 ADVANCED KEY ID CODE REGISTRATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-124 CLEARING ADVANCED KEY [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-122 ADVANCED KEY BATTERY REPLACEMENT [ADVANCED KEYLESS AND START SYSTEM].)

SECURITY AND LOCKS

6	Coil antenna (See 09-14-133 COIL ANTENNA REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].)
7	Keyless receiver (See 09-14-108 KEYLESS RECEIVER REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-109 KEYLESS RECEIVER INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
8	Keyless control module (See 09-14-98 KEYLESS CONTROL MODULE REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-99 KEYLESS CONTROL MODULE INSPECTION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-134 STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-102 KEYLESS CONTROL MODULE CONFIGURATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-125 CUSTOMIZED FUNCTION SETTING PROCEDURE [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-136 IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-158 SECURITY ACCESS PROCEDURE.)

SECURITY AND LOCKS

3HB



am2zzw0000328

1	Keyless antenna (See 09-14-125 KEYLESS ANTENNA REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].)
2	Request switch (See 09-14-132 REQUEST SWITCH REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-132 REQUEST SWITCH INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
3	Liftgate opener switch (See 09-14-91 LIFTGATE OPENER SWITCH REMOVAL/INSTALLATION.) (See 09-14-92 LIFTGATE OPENER SWITCH INSPECTION.)

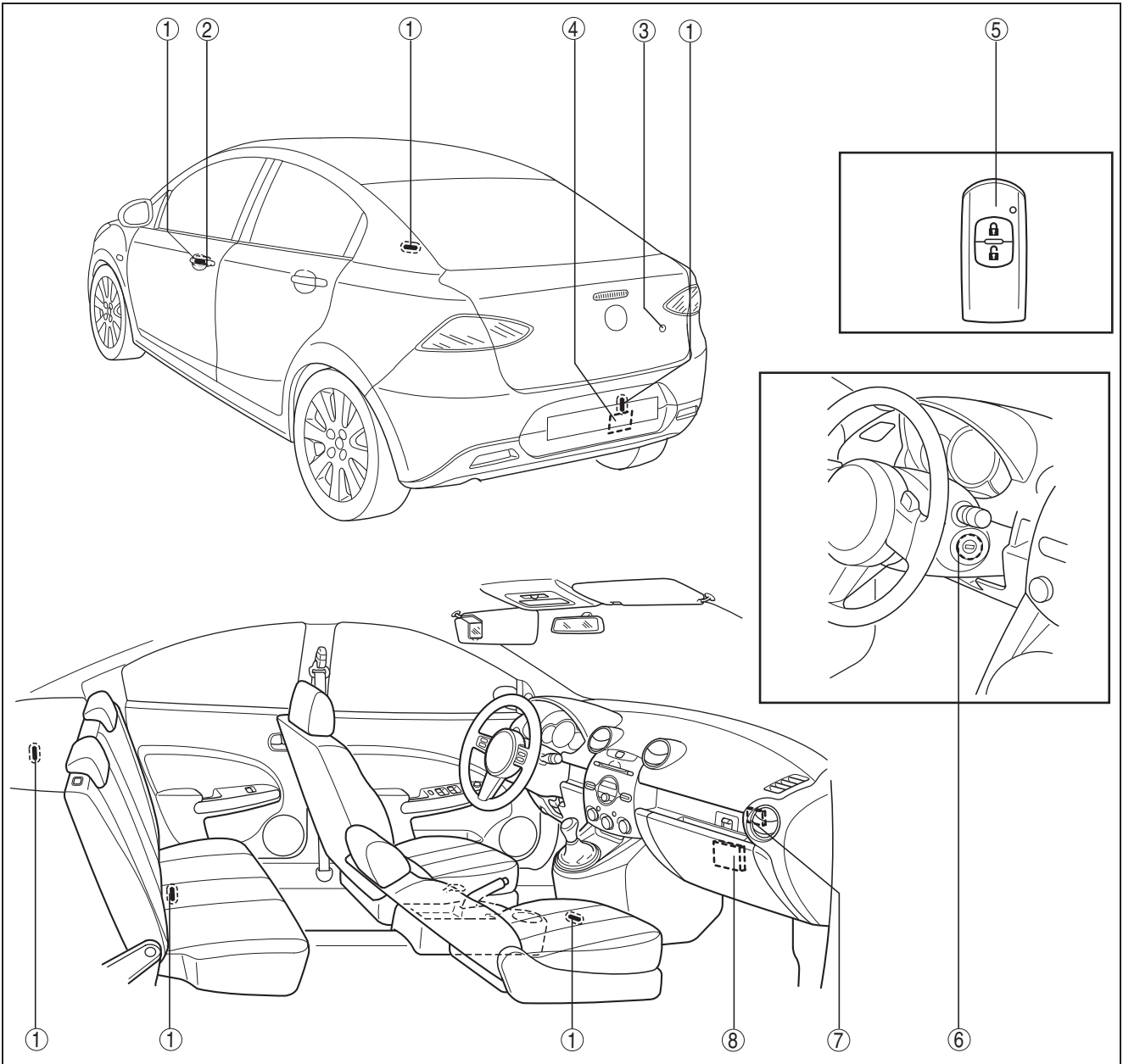
4	Keyless beeper (See 09-14-130 KEYLESS BEEPER REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-131 KEYLESS BEEPER INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
5	Advanced key (See 09-14-123 ADVANCED KEY ID CODE REGISTRATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-124 CLEARING ADVANCED KEY [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-122 ADVANCED KEY BATTERY REPLACEMENT [ADVANCED KEYLESS AND START SYSTEM].)

SECURITY AND LOCKS

6	Coil antenna (See 09-14-133 COIL ANTENNA REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].)
7	Keyless receiver (See 09-14-108 KEYLESS RECEIVER REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-109 KEYLESS RECEIVER INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
8	Keyless control module (See 09-14-98 KEYLESS CONTROL MODULE REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-99 KEYLESS CONTROL MODULE INSPECTION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-134 STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-102 KEYLESS CONTROL MODULE CONFIGURATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-125 CUSTOMIZED FUNCTION SETTING PROCEDURE [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-136 IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-158 SECURITY ACCESS PROCEDURE.)

SECURITY AND LOCKS

4SD



am2ccw0000017

1	Keyless antenna (See 09-14-125 KEYLESS ANTENNA REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].)
2	Request switch (See 09-14-132 REQUEST SWITCH REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-132 REQUEST SWITCH INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
3	Trunk lid opener switch (See 09-14-97 TRUNK LID OPENER SWITCH REMOVAL/INSTALLATION.) (See 09-14-97 TRUNK LID OPENER SWITCH INSPECTION.)

4	Keyless beeper (See 09-14-130 KEYLESS BEEPER REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-131 KEYLESS BEEPER INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
5	Advanced key (See 09-14-123 ADVANCED KEY ID CODE REGISTRATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-124 CLEARING ADVANCED KEY [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-122 ADVANCED KEY BATTERY REPLACEMENT [ADVANCED KEYLESS AND START SYSTEM].)

SECURITY AND LOCKS

6	Coil antenna (See 09-14-133 COIL ANTENNA REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].)
7	Keyless receiver (See 09-14-108 KEYLESS RECEIVER REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-109 KEYLESS RECEIVER INSPECTION [ADVANCED KEYLESS AND START SYSTEM].)
8	Keyless control module (See 09-14-98 KEYLESS CONTROL MODULE REMOVAL/INSTALLATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-99 KEYLESS CONTROL MODULE INSPECTION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-134 STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-102 KEYLESS CONTROL MODULE CONFIGURATION [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-125 CUSTOMIZED FUNCTION SETTING PROCEDURE [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-136 IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [ADVANCED KEYLESS AND START SYSTEM].) (See 09-14-158 SECURITY ACCESS PROCEDURE.)