

AIR BAG SYSTEM

CLOCK SPRING INSPECTION

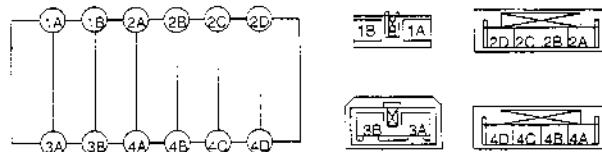
X5U810W07

1. Remove the clock spring. (Refer to 08-10 CLOCK SPRING REMOVAL/INSTALLATION.)
2. Inspect for continuity between the clock spring terminals by using an ohmmeter.

: Continuity

Step	Terminal										
	1A	1B	2A	2B	2C	3A	3B	4A	4B	4C	4D
1											
2											
3											
4											
5											
6											

X5U810WAK



X5U810WAL

Note

- When terminals 3A and 3B are disconnected from the vehicle's main harness, they are shorted to prevent unexpected air bag deployment.

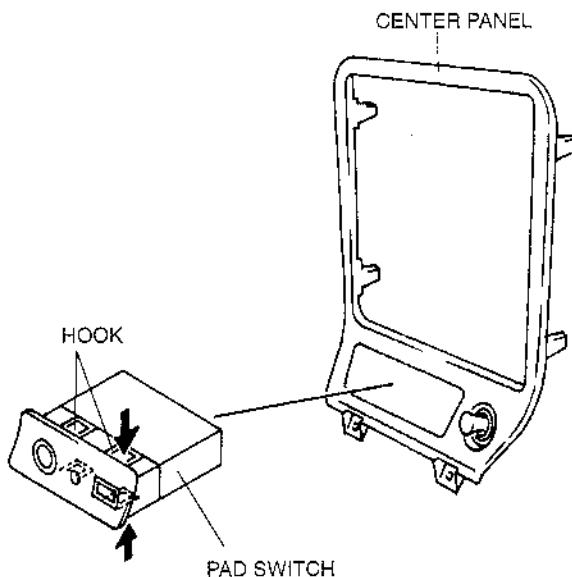
3. If not as specified, replace the clock spring.

PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION

X5U810W08

1. Disconnect the negative battery cable.
2. Remove the center panel. (Refer to 09-17 CENTER PANEL REMOVAL/INSTALLATION.)
3. Push the hooks of PAD switch and pull the switch out.

4. Install in the reverse order of removal.



X5U810WB4

AIR BAG SYSTEM

PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH INSPECTION

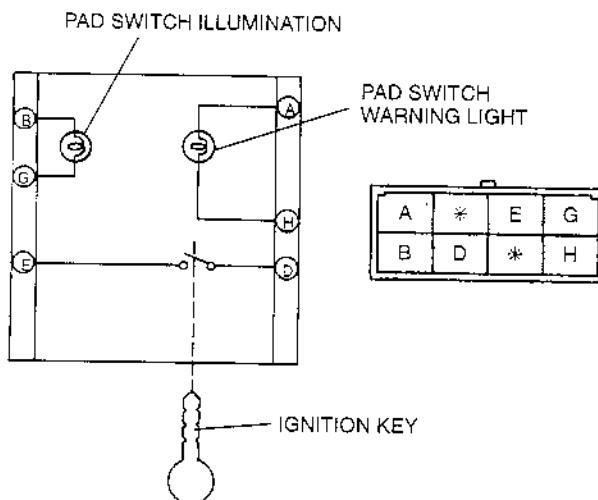
X5U810W1C

1. Disconnect the negative battery cable.
2. Remove the center panel. (Refer to 09-17 CENTER PANEL REMOVAL/INSTALLATION.)
3. Confirm that the PAD switch warning light bulb and the PAD switch illumination bulb are okay.
4. If the bulbs go out, replace them with new ones.
5. Inspect for continuity between PAD switch terminals by using an ohmmeter.

○—○ : Continuity ○—○—○ : Bulb

Switch position	Terminal					
	A	H	B	G	D	E
ON	○—○—○	○—○—○				
OFF	○—○—○	○—○—○			○—○	○—○

X5U810WB6



X5U810WB7

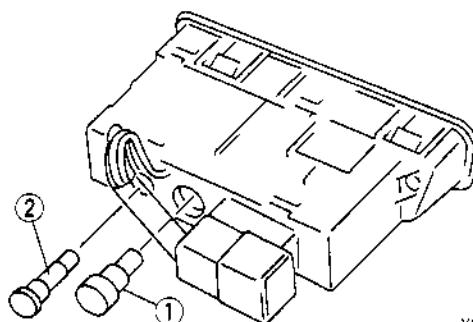
6. If not as specified, replace the PAD switch.

PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH WARNING LIGHT BULB AND PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH ILLUMINATION BULB REMOVAL/INSTALLATION

X5U810W09

1. Disconnect the negative battery cable.
2. Remove the center panel. (Refer to 09-17 CENTER PANEL REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

1	PAD switch warning light bulb
2	PAD switch illumination bulb



X5U810WB5

AIR BAG SYSTEM

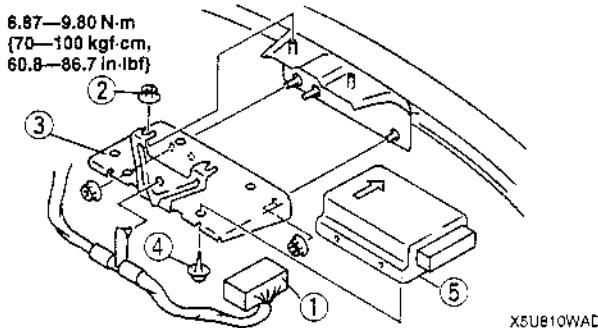
SAS CONTROL MODULE REMOVAL/INSTALLATION

X5U810W04

Warning

- Handling the SAS control module improperly can accidentally deploy the air bag modules and which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the SAS control module. (Refer to 08-10 AIR BAG SYSTEM SERVICE WARNINGS.)

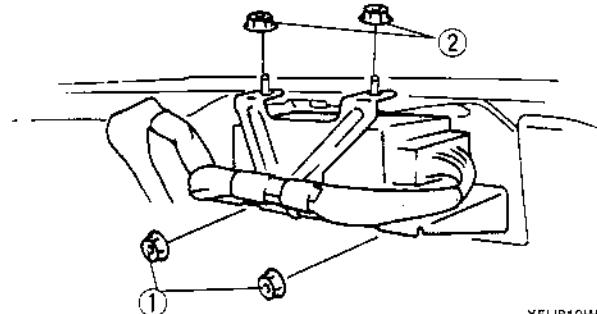
- Turn the ignition switch to LOCK.
- Disconnect the negative battery cable and wait for more than 1 minute to allow the backup power supply of the SAS control module to deplete its stored power.
- Remove the dashboard. (Refer to 09-17 DASHBOARD REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.
- Install in the reverse order of removal.
- Turn the ignition switch to ON.
- Verify that the air bag system warning light illuminates for approximately 6 seconds then goes off.
- If the air bag system warning light remains on, off, or repeats flashing after servicing, there are malfunctions in the system. Carry out the inspection again. (Refer to 08-01 AIR BAG SYSTEM ON-BOARD DIAGNOSIS.)



1	Connector
2	Nut ☞ Installation note
3	Bracket
4	Screw
5	SAS unit

Nut Installation Note

- Tighten the nuts in the order shown in the figure.



X5U810WAE

AIR BAG MODULE DEPLOYMENT AUTHORIZATION PROCEDURES

X5U810W1

- After installing a new SAS control module, verify that the air bag system warning light flashes continuously approximately 6 seconds after the ignition switch is turned to ON.
- If a diagnostic trouble code is indicated, perform the appropriate AIR BAG SYSTEM ON-BOARD DIAGNOSIS. (Refer to 08-01 AIR BAG SYSTEM ON-BOARD DIAGNOSIS.)
- Turn the ignition switch to LOCK then back to ON while the air bag system warning light is flashing continuously. If the procedures have been performed correctly, the air bag system warning light illuminates, then goes off after approximately 6 seconds.
- If it does not go off, perform the deployment authorization procedure again.

AIR BAG SYSTEM

AIR BAG MODULE DEPLOYMENT PROCEDURES

Warning

- A live (undeployed) air bag module may accidentally deploy when it is disposed of and cause serious injury. Do not dispose of a live (undeployed) air bag module. If the SSTs (Deployment Tool and Harness Adapter) are not available, consult the nearest Mazda representative for assistance.

X5U81CW12

Note

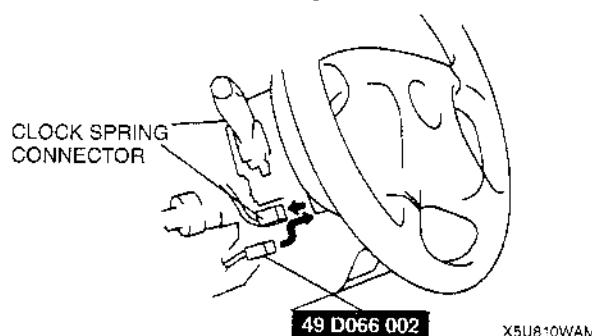
- When disposing of a deployed air bag, refer to AIR BAG MODULE DISPOSAL PROCEDURES. (Refer to 08-10 AIR BAG MODULE DISPOSAL PROCEDURES.)

Deployment Procedures for Inside of Vehicle

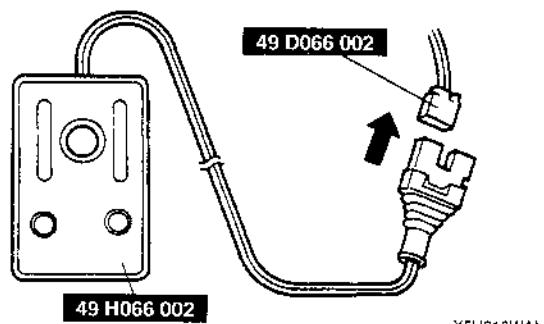
1. Inspect the SST (Deployment Tool). (Refer to 08-10 INSPECTION OF SST (DEPLOYMENT TOOL).)
2. Move the vehicle to an open space, away from strong winds, and close all of the vehicle's doors and windows.
3. Turn the ignition switch to LOCK.
4. Disconnect the negative battery cable and wait for more than 1 minute to allow the backup power supply of the SAS control module to deplete its stored power.

Driver-side air bag module

1. Remove the column cover.
2. Disconnect the clock spring connector.
3. Connect the SST (Harness Adapter) to the clock spring as shown in the figure.



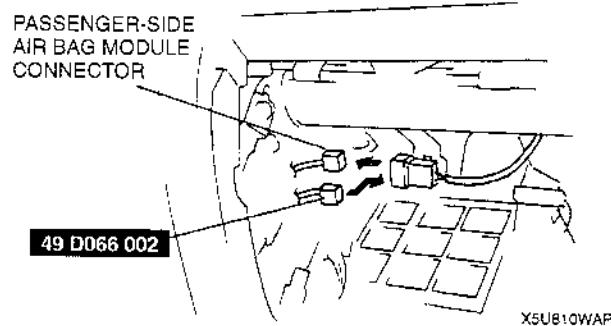
4. Connect the SST (Deployment Tool) to the SST (Harness Adapter).



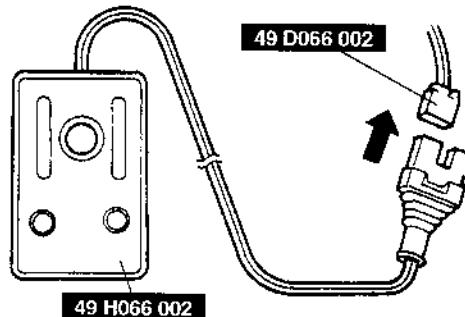
5. Connect the red clip of the SST (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the SST (Deployment Tool) is illuminated.
7. Make sure all persons are standing at least 6 m {20 ft} away from the vehicle.
8. Press the activation switch on the SST (Deployment Tool) to deploy the air bag module.

Passenger-side air bag module

1. Remove the glove compartment.
2. Disconnect the passenger-side air bag module connector.
3. Connect the SST (Harness Adapter) to the passenger-side air bag module as shown in the figure.



4. Connect the SST (Deployment Tool) to the SST (Harness Adapter).



5. Connect the red clip of the SST (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the SST (Deployment Tool) is illuminated.
7. Make sure all persons are standing at least 6 m {20 ft} away from the vehicle.
8. Press the activation switch on the SST (Deployment Tool) to deploy the air bag module.

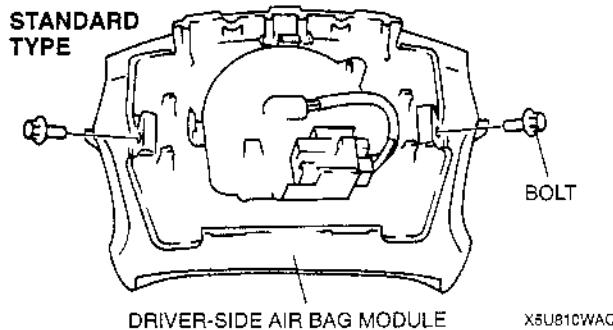
AIR BAG SYSTEM

Deployment Procedures for Outside of Vehicle

1. Inspect the **SST** (Deployment Tool). (Refer to 08-10 INSPECTION OF SST (DEPLOYMENT TOOL).)
2. Turn the ignition switch to LOCK.
3. Disconnect the negative battery cable and wait for more than **1 minute** to allow the backup power supply of the SAS control module to deplete its stored power.

Driver-side air bag module

1. Remove the driver-side air bag module. (Refer to 08-10 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. For the standard type, install the bolts to the driver-side air bag module.

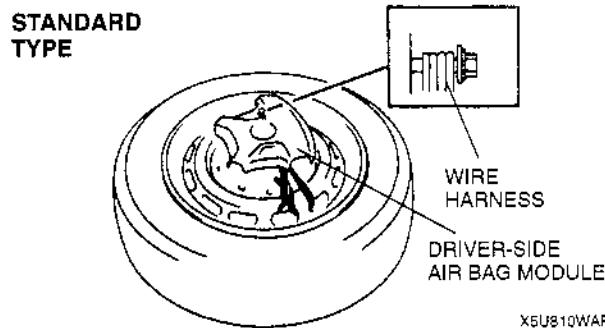


X5U810WAQ

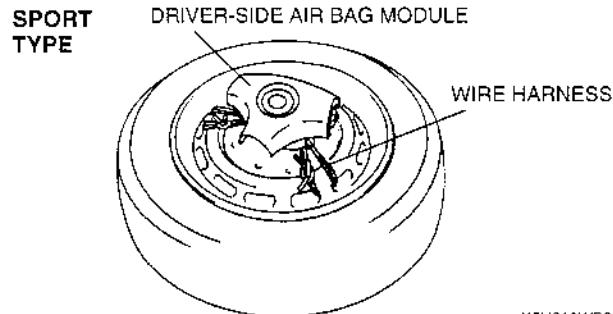
Warning

- If the air bag module is not properly installed to the tire wheel, serious injury may occur when the module is deployed. When installing the air bag module to the tire wheel, make sure the front of the module is facing up.

3. Place the driver-side air bag module on the center of the tire wheel with the front of the module facing up. To secure the standard type air bag module to the tire wheel, wrap the wire harness through the wheel and around the bolt at least 4 times. To secure the sport type air bag module to the tire wheel, wrap the wire harness through the wheel and the bolt installation hole at least 4 times.

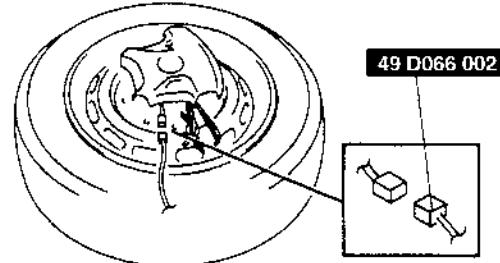


X5U810WAR



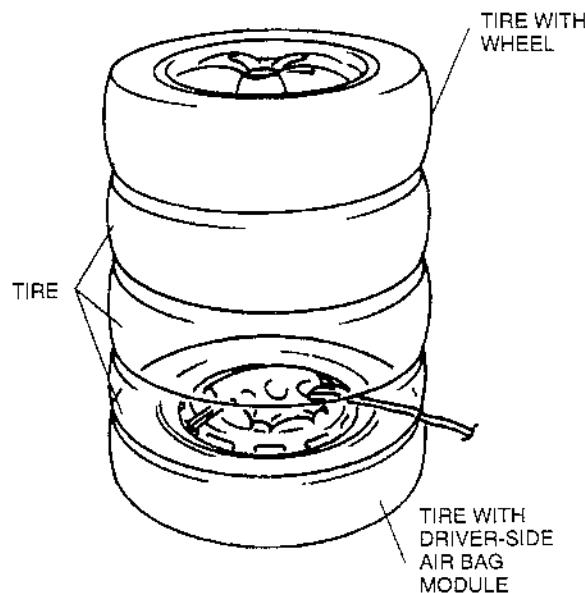
X5U810WB8

4. Connect the **SST** (Harness Adapter) to the driver-side air bag module as shown in the figure.



X5U810WAS

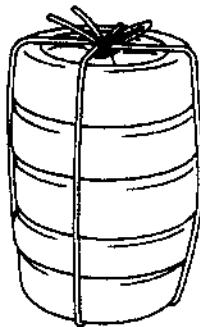
5. Stack 3 tires on top of the tire with the attached air bag module. Stack a tire that has a wheel on top of the 4 tires.



X5U810WAT

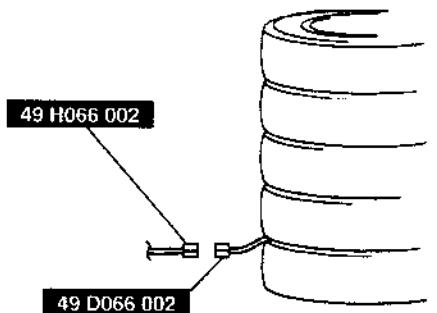
AIR BAG SYSTEM

6. Tie all tires together with wire.



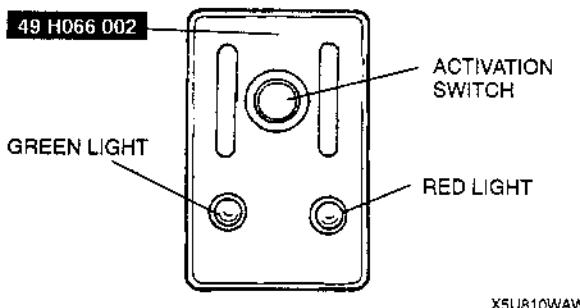
X5UB10WAU

7. Connect the **SST** (Deployment Tool) to the **SST** (Harness Adapter).



X5UB10WAV

8. Connect the red clip of the **SST** (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
9. Verify that the red light on the **SST** (Deployment Tool) is illuminated.



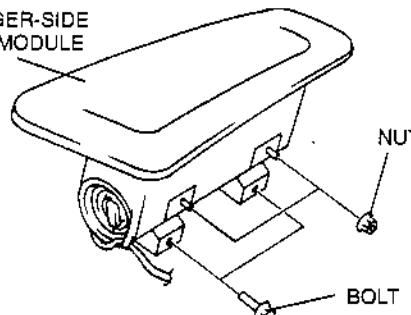
X5UB10WAW

10. Make sure all persons are standing at least **6 m** (**20 ft**) away from the tire.
11. Press the activation switch on the **SST** (Deployment Tool) to deploy the air bag module.

Passenger-side air bag module

1. Remove the passenger-side air bag module.
(Refer to 08-10 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Install the bolts or nuts to the passenger-side air bag module.

PASSENGER-SIDE
AIR BAG MODULE

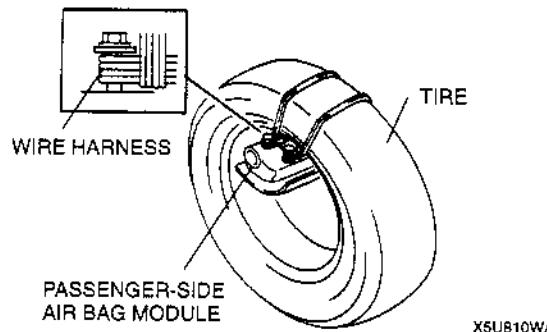


X5UB10WAZ

Warning

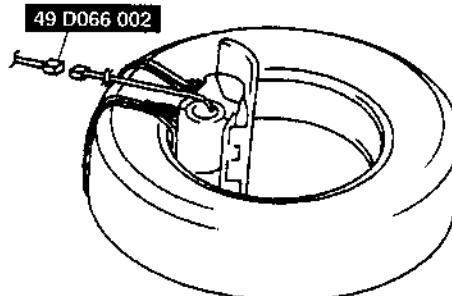
- If the air bag module is not properly installed to the tire wheel, serious injury may occur when the module is deployed. When installing the air bag module to the tire wheel, make sure the center of the module is facing the center of the tire.

3. Tie the air bag module to the tire with the center of the module facing the center of the tire. Wrap the wire harness through the tire and around the air bag module bolt or nut at least 4 times.



X5UB10WAX

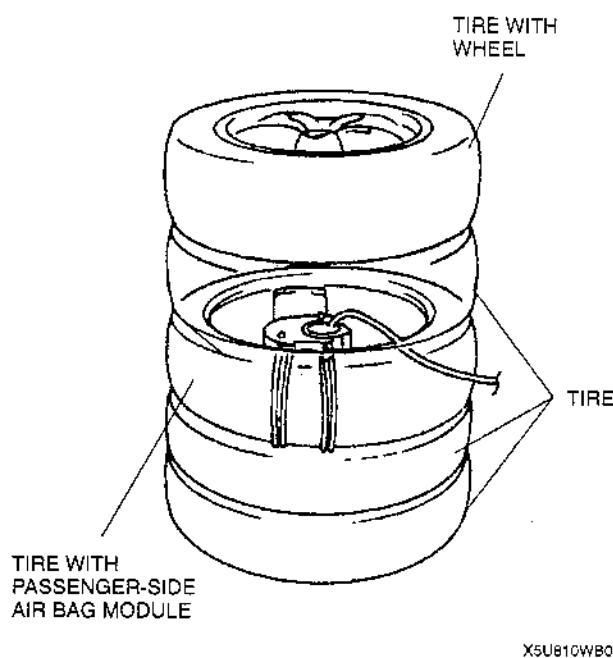
4. Connector the **SST** (Harness Adapter) to the passenger-side air bag module as shown.



X5UB10WAY

AIR BAG SYSTEM

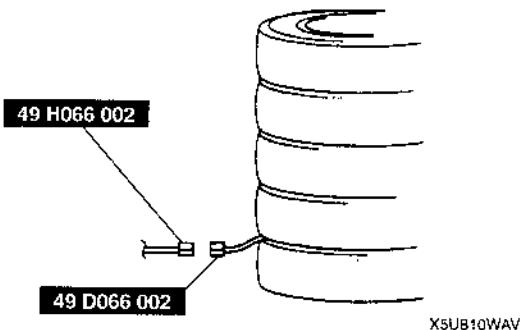
5. Stack the tire with the attached passenger-side air bag module on top of 2 tires. Stack a tire on top of the 3 tires. Stack a tire that has a wheel on top of the 4 tires.



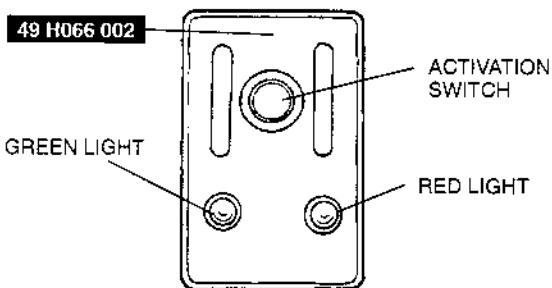
6. Tie all tires together with wire.



7. Connect the **SST** (Deployment Tool) to the **SST** (Harness Adapter).



8. Connect the red clip of the **SST** (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
9. Verify that the red light on the **SST** (Deployment Tool) is illuminated.



10. Make sure all persons are standing at least **6 m {20 ft}** away from the vehicle.
11. Press the activation switch on the **SST** (Deployment Tool) to deploy the passenger-side air bag module.

AIR BAG MODULE DISPOSAL PROCEDURES

X5U810W13

Warning

- Before scrapping a vehicle with a live (undeployed) air bag module, deploy the air bag module. Never dispose of a live (undeployed) air bag module.

Warning

- The air bag is very hot immediately after it deploys. You can get burned. Do not touch the air bag module for at least 15 minutes after deployment.

Warning

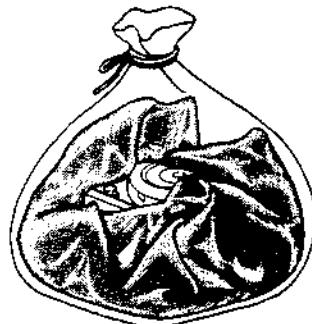
- Pouring water on a deployed air bag is dangerous. The water will mix with the residual gasses to form a gas that can make breathing difficult. Do not pour water on the deployed air bag module.

Warning

- A deployed air bag module may contain deposits of sodium hydroxide, a caustic byproduct of the gas-generated combustion. If this substance gets into your eyes or on your hands, it can cause irritation and itching. When handling a deployed air bag module, wear gloves and safety glasses.

AIR BAG SYSTEM

1. Put on gloves and safety glasses.
2. Put the deployed air bag module in a plastic bag, seal it, and then dispose of it.
3. Wash your hands after removing your gloves.

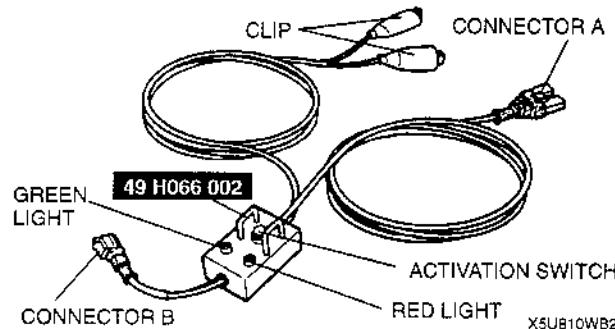


X5UB10WB1

INSPECTION OF SST (DEPLOYMENT TOOL)

X5UB10W14

- Use the **SST** (Deployment Tool) to deploy a live air bag module before disposing of it.
- Before connecting the **SST** (Deployment Tool) to the clock spring or passenger-side air bag module, inspect the operation of the **SST** (Deployment Tool).

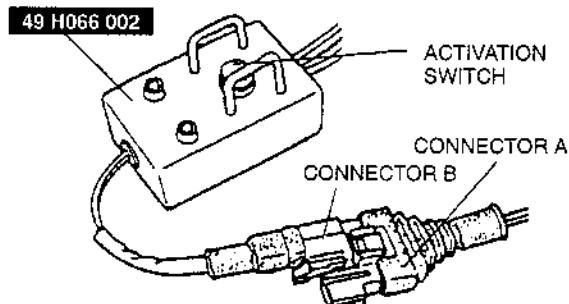


X5UB10WB2

Inspection Procedure

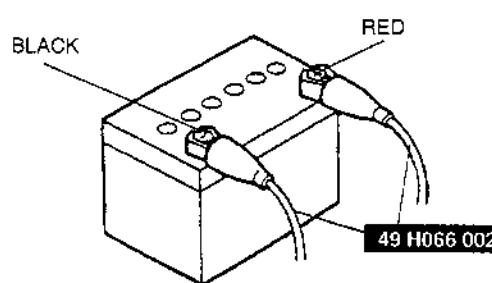
1. Follow the steps below to verify that the **SST** (Deployment Tool) is operating correctly.

Step	Inspection procedure	Light condition	
		Green	Red
1	Connect red clip to positive battery terminal and black clip to negative battery terminal.	On	Off
2	Connect connectors A and B of SST (Deployment Tool).	Off	On
3	Press activation switch.	On	Off



X5UB10WB3

2. If not as specified, do not use the **SST** (Deployment Tool) because it may cause the air bag to unexpectedly deploy upon connection to the air bag module.



08-11 SEAT BELT

SEAT BELT INSPECTION	08-11-1
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ELR	08-11-1
ALR	08-11-1

Seat Belt Switch	08-11-1
SEAT BELT REMOVAL/INSTALLATION ..	08-11-2
BUCKLE REMOVAL/INSTALLATION ..	08-11-2

SEAT BELT INSPECTION

Belt

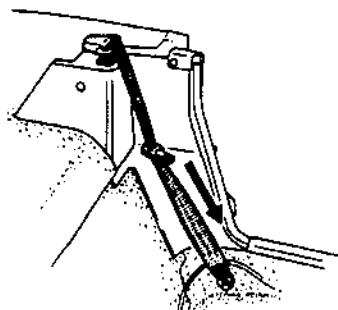
1. Inspect the webbing for scars, tears, and wear.
2. Inspect the fittings for deformation and damage.
3. If a problem is found, replace the seat belt.

ELR

Caution

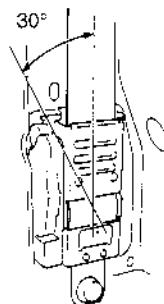
- If the load limiter mechanism operates, the belt will no longer withdraw and retract normally. Replace the belt if the load limiter mechanism operates.

1. Verify that the belt can be pulled out smoothly, and that it moves smoothly when worn.
2. Verify that the retractor locks when the belt is quickly pulled.



X5U811WA1

3. Remove the retractor. (Refer to 08-11 SEAT BELT REMOVAL/INSTALLATION.)
4. Hold the retractor as it would be installed.
5. Slowly incline the retractor while pulling out the belt.
6. Verify that the retractor locks at approximately 30° inclination.



X5U811WA2

- X5U811W02
7. If not as specified, replace the seat belt.

ALR

1. Pull the belt out fully and the lock mode changes from ELR to ALR.
2. Verify that retractor makes a clicking sound as the belt slowly retracts. If no sound is heard, the lock mode has not changed to ALR. If necessary, repeat the above step 1.
3. Verify that the belt locks when pulled.
4. Verify that the lock mode changes to ELR when the belt fully retracts.
5. If not as specified, replace the seat belt.

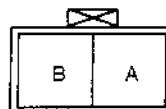
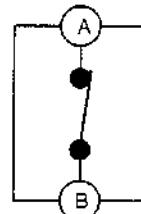
Seat Belt Switch

1. Remove the driver's side quarter trim. (Refer to 09-17 QUARTER TRIM REMOVAL/INSTALLATION.)
2. Disconnect the seat belt switch connector.
3. Slide the driver's side seat backward as far as possible.
4. Inspect for continuity between the seat belt switch terminals by using an ohmmeter.

○—○ : Continuity

Test condition	Terminal	
	A	B
Insert the tongue into the buckle		
Unbuckle the seat belt and allow it to retract fully	○	○

X5U811WA4



X5U811WA5

5. If not as specified, replace the seat belt.

SEAT BELT

SEAT BELT REMOVAL/INSTALLATION

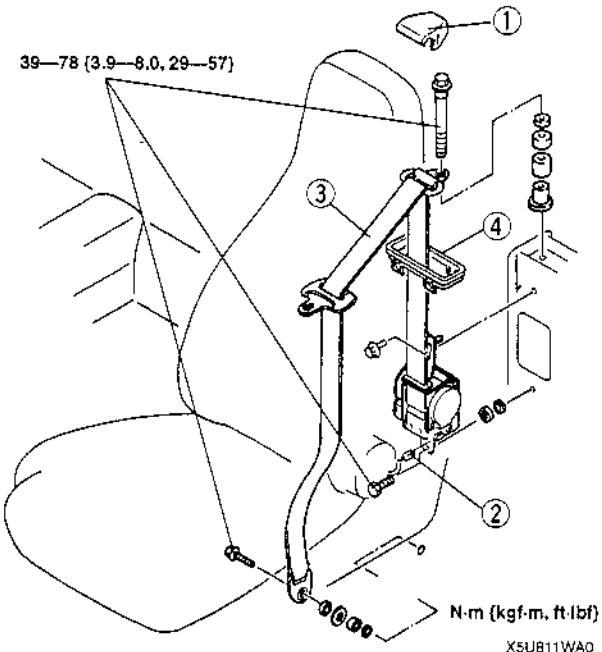
X5U811WC1

Caution

- The ELR has a spring that will unwind if the retractor's cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

1	Anchor cover
2	Seat belt switch connector
3	Seat belt
4	Bezel

- Disconnect the negative battery cable.
- Remove the quarter trim. (Refer to 09-17 QUARTER TRIM REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.
- Install in the reverse order of removal.

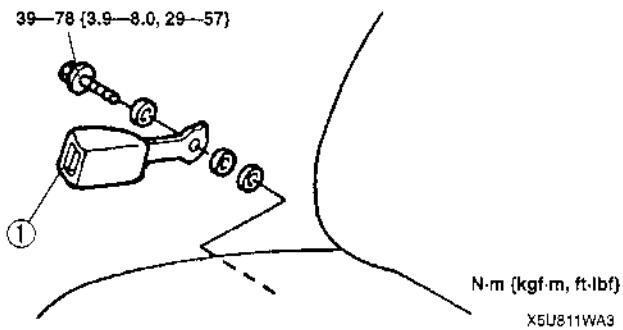


BUCKLE REMOVAL/INSTALLATION

X5U811W04

- Remove as indicated in the table.
- Install in the reverse order of removal.

1	Buckle
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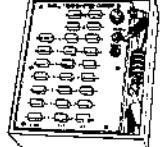
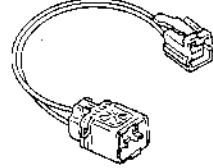


08-60 SERVICE TOOLS

08 RESTRAINTS SST 08-60-1

08 RESTRAINTS SST

XSUB60W01

49 H066 002 Deployment tool  TH066002X	49 0839 285 Fuel & Thermometer Checker  T0839285X	49 D066 002 Harness adapter  TD066002X
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BODY & ACCESSORIES

09
SECTION

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09-10 BODY PANELS

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FUEL-FILLER LID ADJUSTMENT

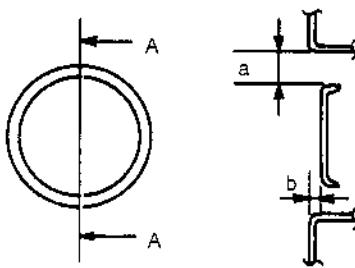
1. Measure the gap and height between the fuel-filler lid and the body panel.

X5U910W09

2. If not as specified, loosen the fuel-filler lid installation bolts and reposition the fuel-filler lid.
3. Tighten the fuel-filler lid installation bolts.

Clearance

- a: 2.5—4.5 mm {0.10—0.17 in}
b: -0.5—1.5 mm {-0.01—0.05 in}

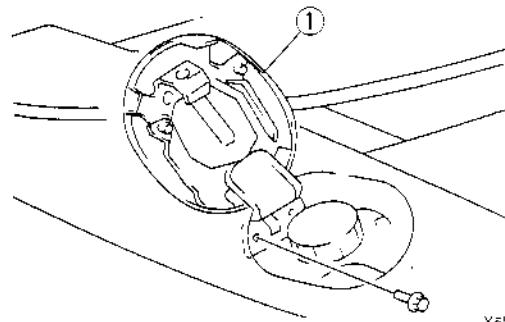


X5U910WAB

BODY PANELS

FUEL-FILLER LID REMOVAL/INSTALLATION

1. Remove in the order indicated in the table.
2. Install in the reverse order of removal.
3. Adjust the fuel-filler lid. (Refer to 09-10 FUEL-FILLER LID ADJUSTMENT.)



X5U910W08

X5U910WAA

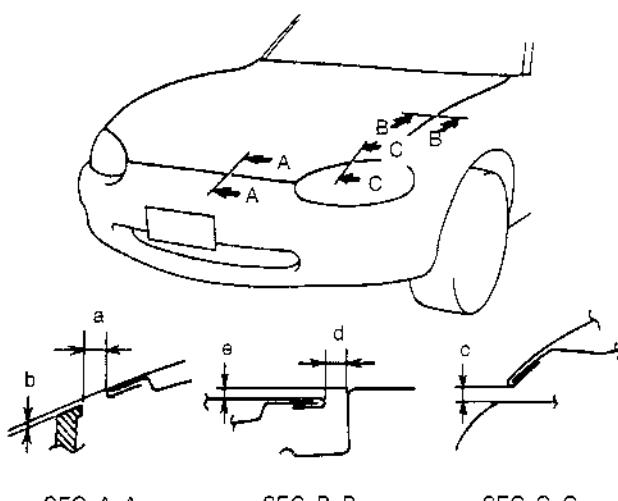
1 Fuel-filler lid

HOOD ADJUSTMENT

1. Measure the gap and height between the hood and the body.

Clearance

- a: 3.8—6.2 mm {0.15—0.24 in}
- b: -2.5—0.5 mm {-0.098—0.019 in}
- c: 5.0—10.0 mm {0.20—0.39 in}
- d: 3.8—6.2 mm {0.15—0.24 in}
- e: -1.5—0.5 mm {-0.059—0.019 in}

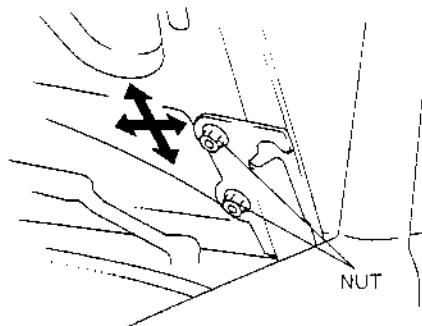


X5U910WA1

2. If not as specified, adjust the gap and height.
3. Adjust the hood lock after the hood has been aligned. (Refer to 09-14 HOOD LOCK ADJUSTMENT.)

Gap Adjustment

1. Loosen the hood installation nuts and reposition the hood.



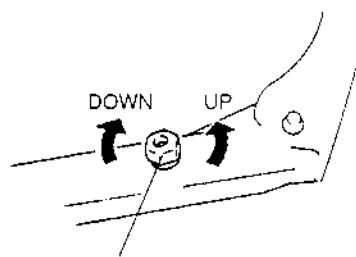
X5U910W02

X5U910WA2

2. Tighten the hood installation nuts.

Height Adjustment

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



X5U910WA3

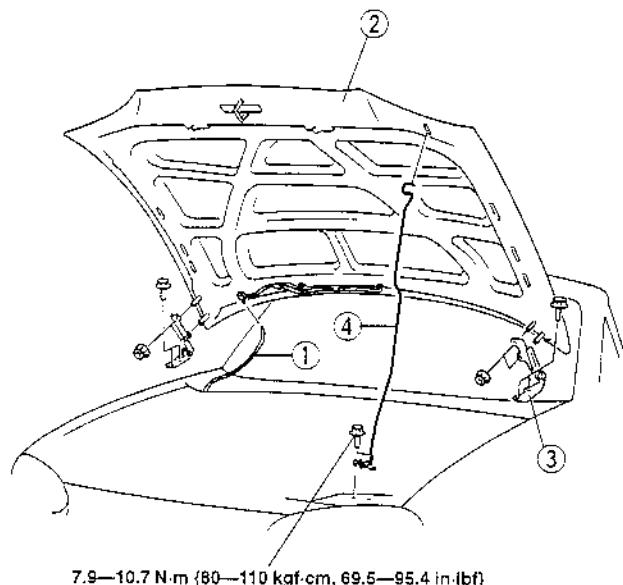
HOOD REMOVAL/INSTALLATION

X5U910W01

Warning

- The hood may fall and injure you. Always perform these procedures together with at least another person.

- To remove the hood hinge, remove the front fender panel. (Refer to 09-10 FRONT FENDER PANEL REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.
- Install in the reverse order of removal.
- Adjust the hood. (Refer to 09-10 HOOD ADJUSTMENT.)



X5U910WA0

1	Windshield washer pipe
2	Hood
3	Hood hinge
4	Hood stay

09

TRUNK LID ADJUSTMENT

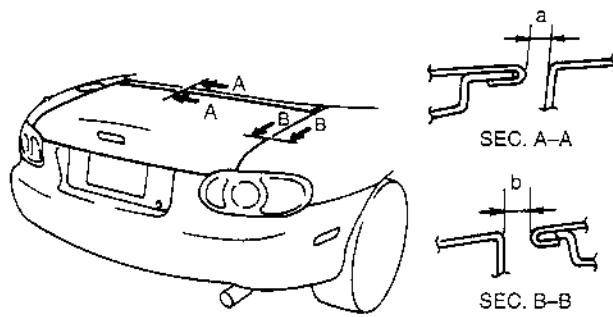
X5U910W05

Clearance

- Measure the gap between the trunk lid and the body panel.

Clearance

- a: 3.5–6.5 mm {0.14–0.25 in}
 b: 3.8–6.2 mm {0.15–0.24 in}



- If not as specified, loosen the trunk lid installation nuts and reposition the trunk lid.
- Tighten the trunk lid installation nuts.

Tightening torque

7.9–10.7 N·m
 {80–110 kgf·cm, 69.5–95.4 in·lbf}

- Adjust the trunk lid striker after the trunk lid has been aligned. (Refer to 09-14 TRUNK LID LOCK ADJUSTMENT.)

Tension

- Slide the balance spring to the desired position as described below by using a tape-wrapped screwdriver.

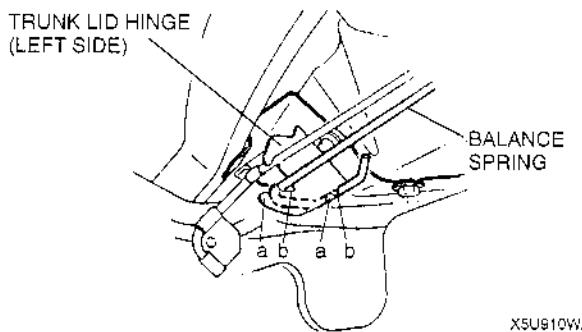
Note

- The trunk lid should rise 50–300 mm {2.0–11.8 in} when the trunk lid is unlocked.

Tension	Hook bracket	Set position	
		a	b
Standard	Right side	○	
	Left side		○
Increase	Right side	○	
	Left side	○	
Decrease	Right side		○
	Left side		○

○ : Position

BODY PANELS



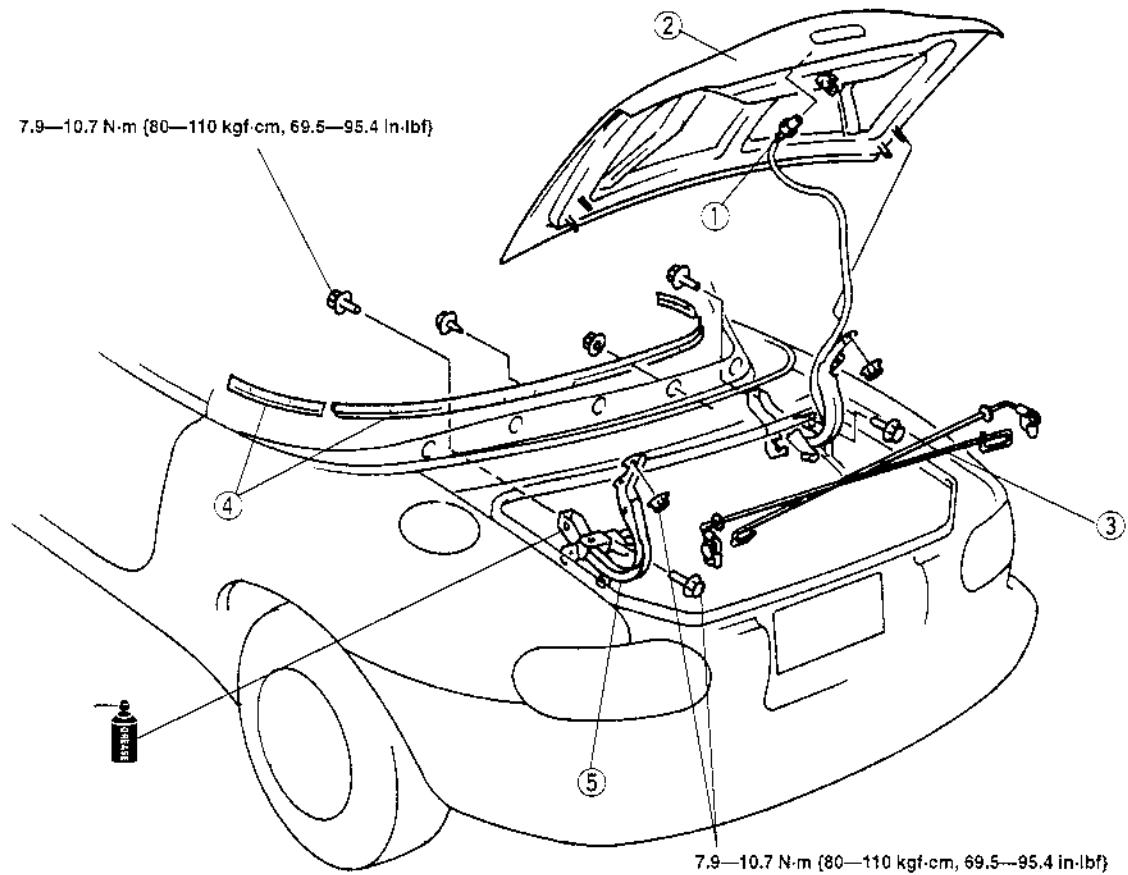
TRUNK LID REMOVAL/INSTALLATION

X5U910W04

Warning

- Removing the balance spring without supporting the trunk lid can be dangerous. The trunk lid may fall and injure you. Open the trunk lid fully and support it before removing the balance spring. Perform these procedures together with another person.

1. Disconnect the negative battery cable.
2. Remove the rear package trim. (Refer to 09-17 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.
5. Adjust the trunk lid. (Refer to 09-10 TRUNK LID ADJUSTMENT.)



1	Bulb
2	Trunk lid
3	Balance spring <small>☞ Removal Note</small>

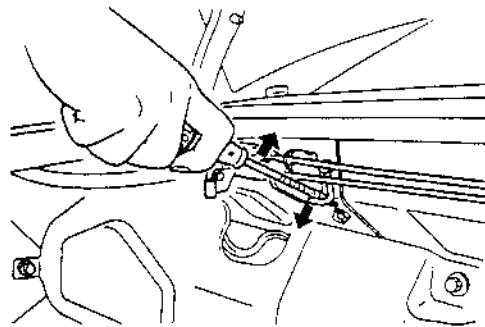
4	Set plate
5	Trunk lid hinge

Balance Spring Removal Note

Note

- The balance springs are under high tension.

- Carefully lift the balance spring by using a tape-wrapped screwdriver.
- Remove the balance spring.

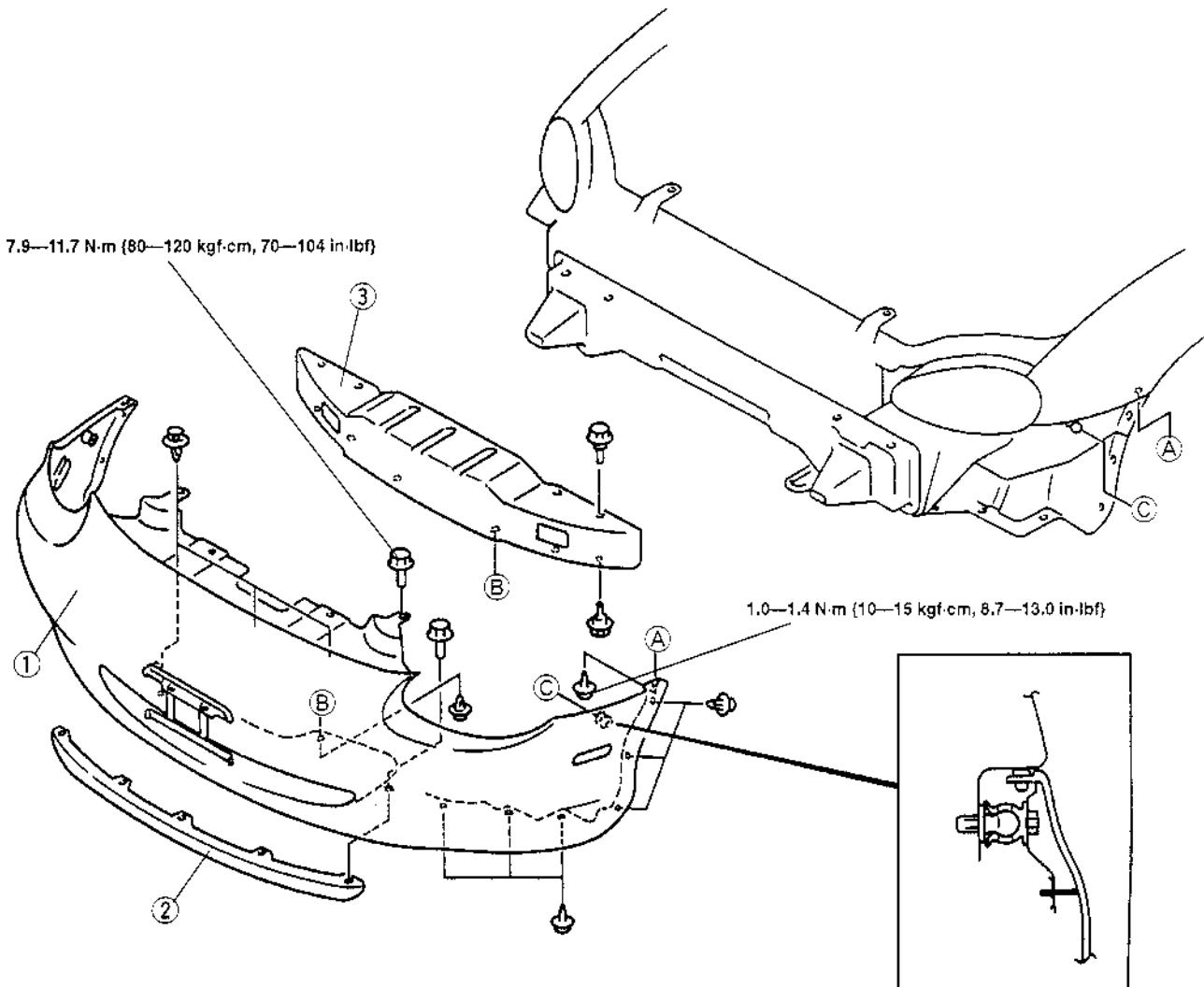


X5U910WA6

FRONT BUMPER REMOVAL/INSTALLATION

X5U910W10

- Disconnect the negative battery cable.
- Remove in the order indicated in the table.
- Install in the reverse order of removal.



09

1	Front bumper
2	Air dam skirt

3	Bumper reinforcement
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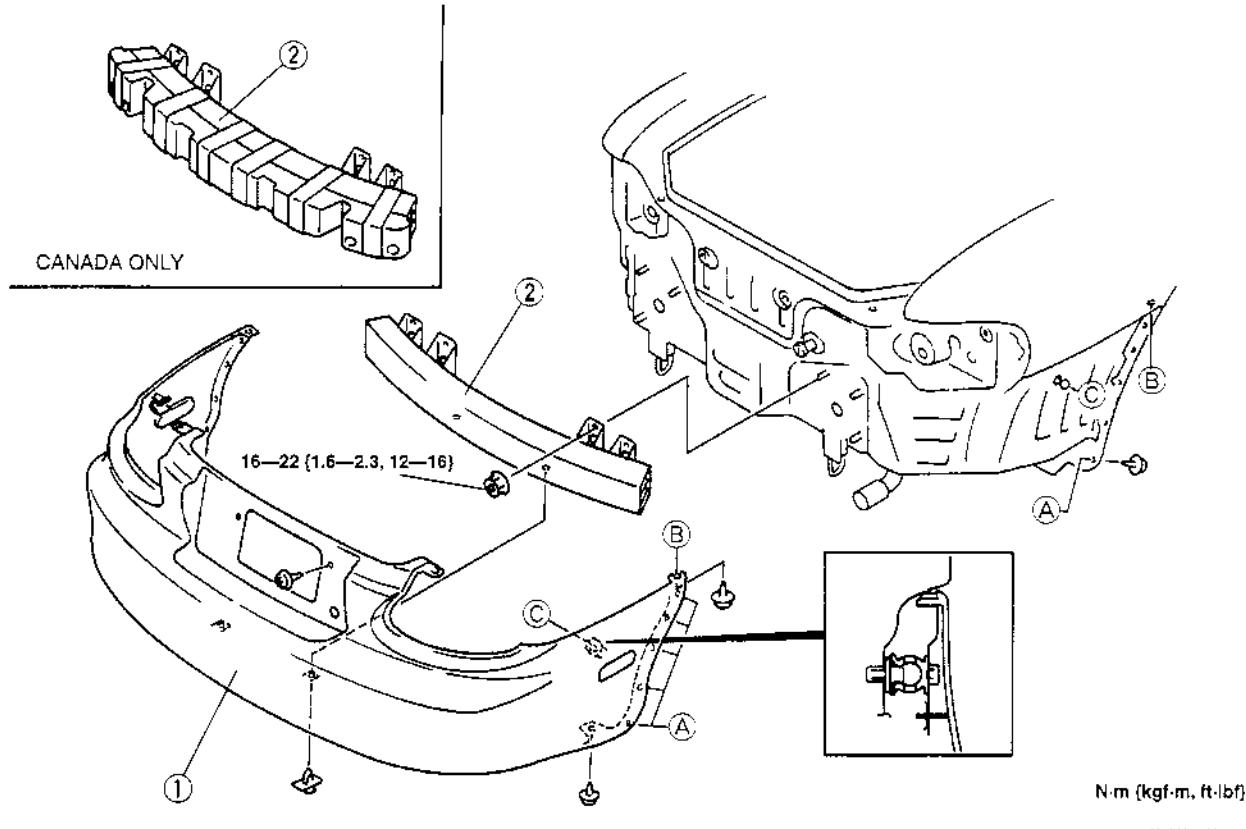
X5U910WAC

BODY PANELS

REAR BUMPER REMOVAL/INSTALLATION

X5U910WC7

1. Disconnect the negative battery cable.
2. Remove the license plate.
3. Remove the rear combination light. (Refer to 09-18 REAR COMBINATION LIGHT REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.



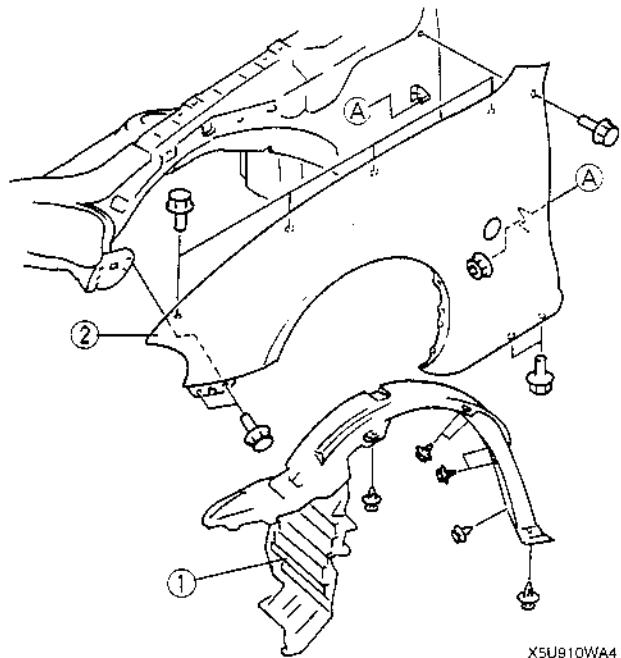
1 Rear bumper

2 Bumper reinforcement

FRONT FENDER PANEL REMOVAL/INSTALLATION

X5U910WC3

1. Disconnect the negative battery cable.
2. Remove the front bumper. (Refer to 09-10 FRONT BUMPER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



X5U910WA4

09

1	Mud guard
2	Front fender panel

09-11 DOORS AND LIFTGATE

DOOR ADJUSTMENT	09-11-1
DOOR REMOVAL/INSTALLATION	09-11-2
Connector Removal Note	09-11-2
Connector Installation Note	09-11-2

DOOR DISASSEMBLY/ASSEMBLY	09-11-3
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DOOR ADJUSTMENT

1. Measure the clearance between the door and body.

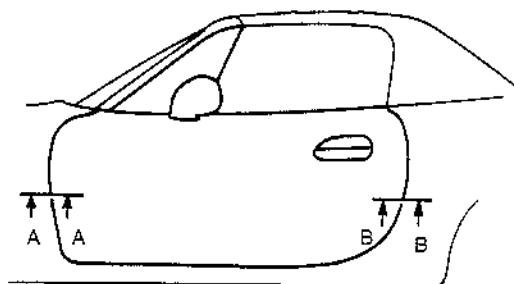
X5U911W01

Clearance

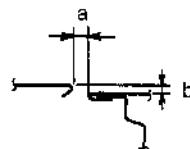
- a: 4.0—6.0 mm {0.16—0.23 in}
 b: -1.0—1.0 mm {-0.039—0.039 in}

2. If not as specified, loosen the door hinge installation bolts or the door lock striker installation screws, and reposition the door.

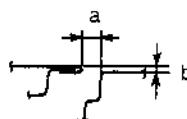
3. Tighten the bolts or screws.



09



SEC. A-A



SEC. B-B

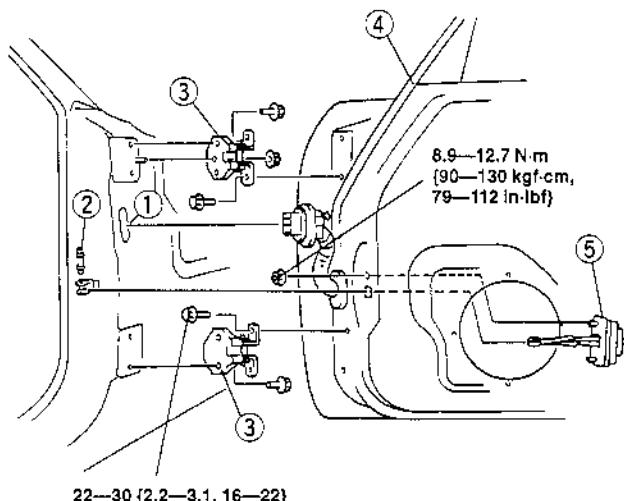
X5U911WA0

DOORS AND LIFTGATE

DOOR REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. To remove the door hinge, remove the front fender panel. (Refer to 09-10 FRONT FENDER PANEL REMOVAL/INSTALLATION.)
3. To remove the checker, remove the door speaker. (Refer to 09-20 DOOR SPEAKER REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.
6. Adjust the door. (Refer to 09-11 DOOR ADJUSTMENT.)

X5U911W02

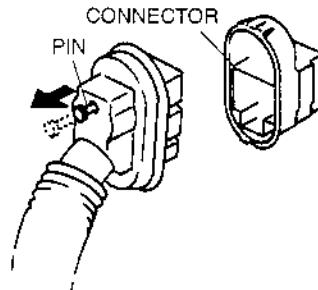


X5U911WA1

1	Connector
	☞ Removal Note
	☞ Installation Note
2	Checker pin
3	Door hinge
4	Door
5	Checker

Connector Removal Note

1. Pull the pin out until it stops.
2. Disconnect the connector.



X5U911WA2

Connector Installation Note

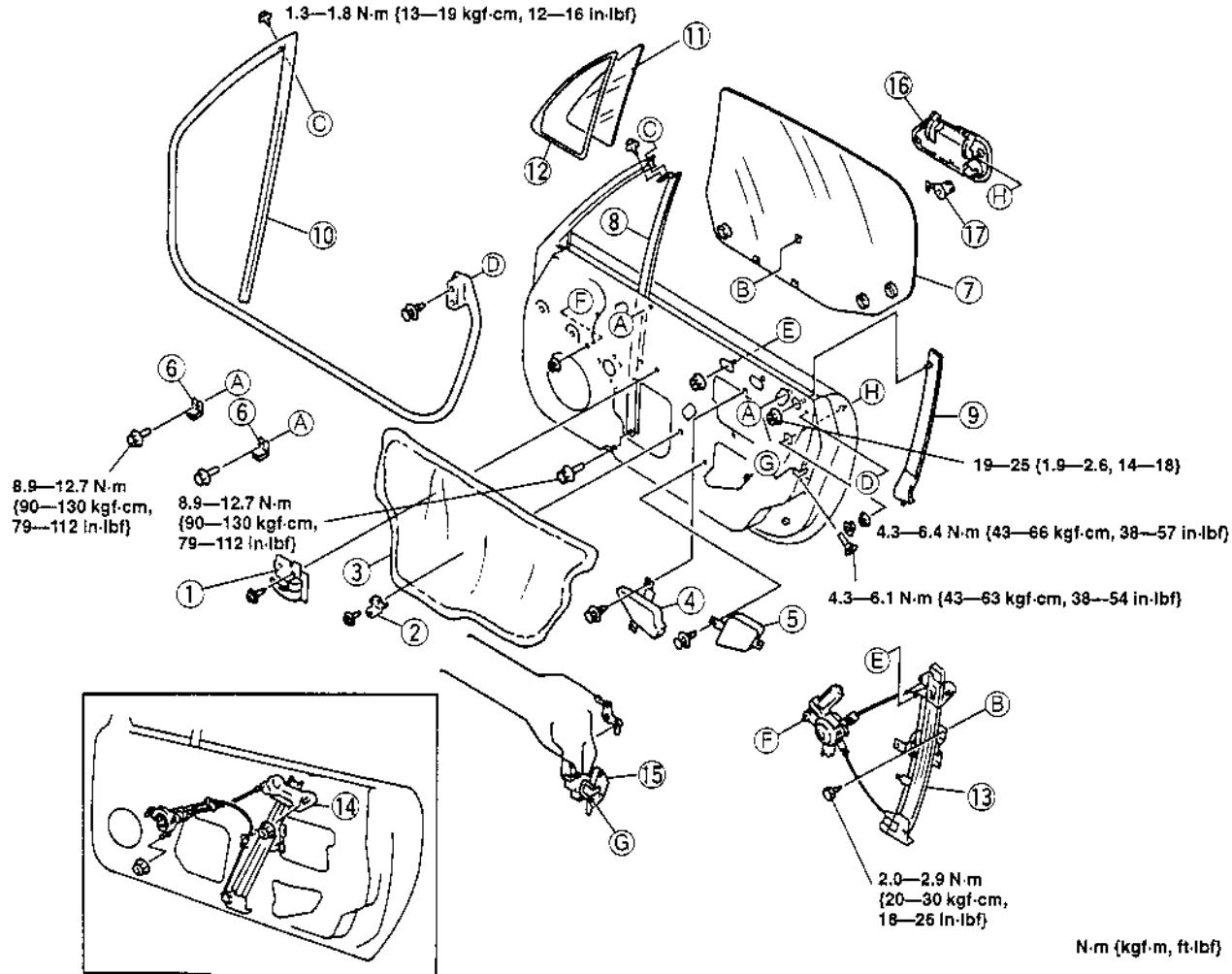
1. Push the pin until it stops.
2. Connect the connector.
3. Repush the pin until it stops and locks the connector.

DOORS AND LIFTGATE

DOOR DISASSEMBLY/ASSEMBLY

X5U911W03

1. Raise the front edge of the door glass 225 mm {8.86 in} from the fully-lowered position.
2. Disconnect the negative battery cable.
3. Remove the door trim. (Refer to 09-17 DOOR TRIM REMOVAL/INSTALLATION.)
4. Disassemble in the order indicated in the table.
5. Assemble in the reverse order of disassembly.
6. Adjust the door glass. (Refer to 09-12 DOOR GLASS ADJUSTMENT.)



X5U911WA3

1	Inner handle
2	Bracket
3	Door screen
4	Pad A
5	Pad B
6	Glass stopper
7	Door glass
8	Front glass guide
9	Rear glass guide

10	Door weatherstrip
11	Door quarter glass
12	Door quarter glass weatherstrip
13	Power window regulator
14	Manual window regulator
15	Door lock
16	Outer handle
17	Door key cylinder

09-12 GLASS/WINDOWS/MIRRORS

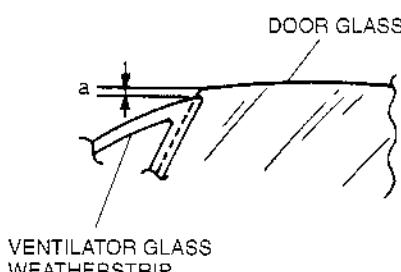
DOOR GLASS ADJUSTMENT	09-12-1
Vertical Adjustment	09-12-2
Forward/Backward Adjustment	09-12-3
Inward/Outward Adjustment	09-12-4
DOOR GLASS AND GUIDE	
REMOVAL/INSTALLATION	09-12-5
POWER WINDOW REGULATOR	
REMOVAL/INSTALLATION	09-12-6
POWER WINDOW REGULATOR	
DISASSEMBLY	09-12-6
POWER WINDOW REGULATOR	
ASSEMBLY	09-12-7
POWER WINDOW MOTOR	
INSPECTION	09-12-8
MANUAL WINDOW REGULATOR	
REMOVAL/INSTALLATION	09-12-9
POWER WINDOW SWITCH	
REMOVAL/INSTALLATION	09-12-9
POWER WINDOW SWITCH	
INSPECTION	09-12-10
REGULATOR HANDLE REMOVAL	09-12-10
REGULATOR HANDLE	
INSTALLATION	09-12-11
REAR WINDOW GLASS REMOVAL	09-12-11
Detachable Hardtop	09-12-11
REAR WINDOW GLASS	
INSTALLATION	09-12-12
Detachable Hardtop	09-12-12
WINDSHIELD REMOVAL	09-12-13
Not Reusing Windshield	09-12-13
Reusing Windshield	09-12-14
WINDSHIELD INSTALLATION	09-12-14
FILAMENT INSPECTION	09-12-16
FILAMENT REPAIR	09-12-17
REAR WINDOW DEFROSTER SWITCH	
REMOVAL/INSTALLATION	09-12-17
REAR WINDOW DEFROSTER SWITCH	
INSPECTION	09-12-17
REAR WINDOW DEFROSTER POWER-CUT	
SWITCH REMOVAL/INSTALLATION	09-12-18
REAR WINDOW DEFROSTER POWER-CUT	
SWITCH INSPECTION	09-12-18
REAR WINDOW DEFROSTER RELAY	
REMOVAL/INSTALLATION	09-12-19
REAR WINDOW DEFROSTER RELAY	
INSPECTION	09-12-19
POWER OUTSIDE MIRROR	
INSPECTION	09-12-19
POWER OUTSIDE MIRROR	
REMOVAL/INSTALLATION	09-12-20
MANUAL OUTSIDE MIRROR	
REMOVAL/INSTALLATION	09-12-21
OUTSIDE MIRROR GLASS REMOVAL	09-12-21
OUTSIDE MIRROR GLASS	
INSTALLATION	09-12-22
POWER OUTSIDE MIRROR SWITCH	
REMOVAL/INSTALLATION	09-12-22
POWER OUTSIDE MIRROR SWITCH	
INSPECTION	09-12-23
REARVIEW MIRROR REMOVAL	09-12-23
REARVIEW MIRROR INSTALLATION	09-12-24
BASE REMOVAL	09-12-24
BASE INSTALLATION	09-12-24

DOOR GLASS ADJUSTMENT

X5U912WC2

1. Adjust the clearance between the upper edge of the door glass and the ventilator glass weatherstrip.

Clearance	Nominate (mm {in})	Minimum (mm {in})	Maximum (mm {in})
a	0 {0}	-0.5 {-0.01}	1.0 {0.03}



X5U912WC7

2. If vehicle has a convertible top, adjust the retainer. (Refer to 09-16 RETAINER ADJUSTMENT.)
3. Adjust the convertible top. (Refer to 09-16 TOP LOCK ADJUSTMENT.)

4. Adjust the detachable hardtop. (Refer to 09-16 TOP LOCK ADJUSTMENT.)
5. Raise the door glass fully and adjust it as there is no clearance with the retainer weatherstrip.
6. Remove the retainer weatherstrip.
7. Adjust the door glass vertically.
8. Adjust the door glass forward/backward.
9. Adjust the door glass inward/outward.
10. Verify the door glass is in correct position when it is fully raised.
11. Install the weatherstrip.
12. Verify the door glass raises and lowers smoothly with the door closed.

Note

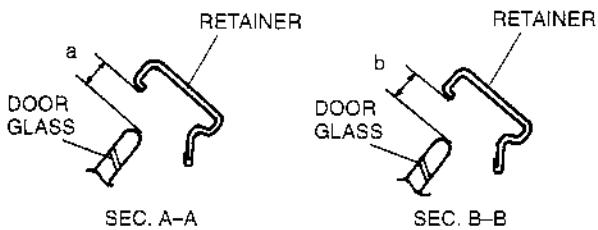
- The front retainer installation hole is named retainer installation hole No.1, and the bottom hole is named retainer installation hole No.8 (convertible top) or retainer installation hole No.6 (detachable hardtop).

GLASS/WINDOWS/MIRRORS

Vertical Adjustment

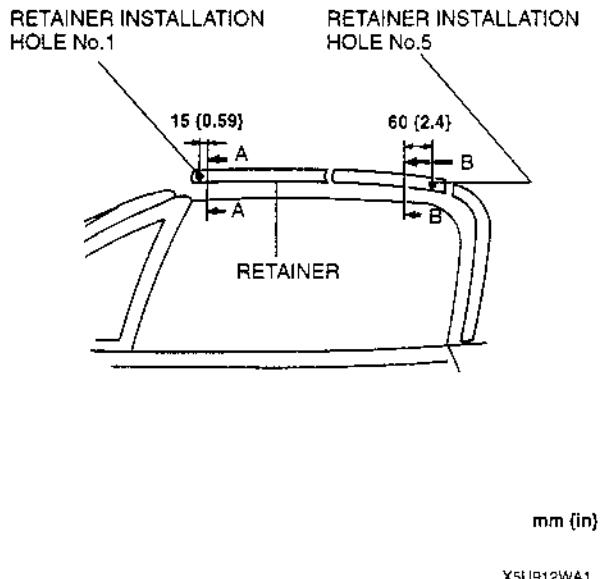
1. Measure the upper edge of the door glass and the retainer.

Clearance	Nominate (mm {in})	Minimum (mm {in})	Maximum (mm {in})
a	9.6 {0.38}	6.6 {0.26}	12.6 {0.49}
b	9.3 {0.37}	6.3 {0.25}	12.3 {0.48}

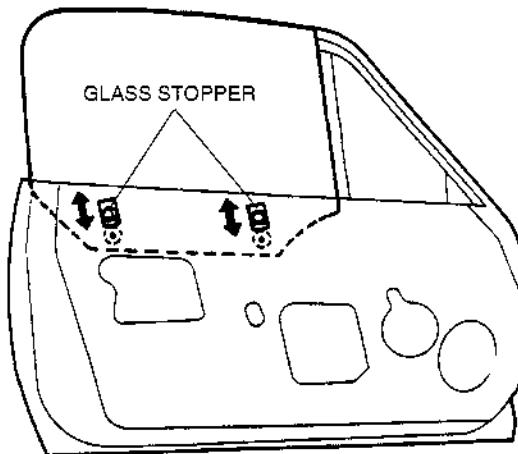


X5U912WA3

CONVERTIBLE TOP

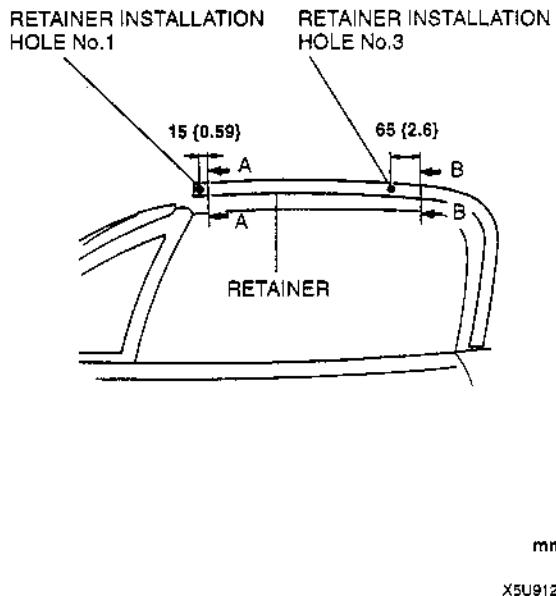


2. If not as specified, loosen the glass stopper installation bolts, move the glass stopper up or down and reposition the door glass.



X5U912WA4

DETACHABLE HARDTOP



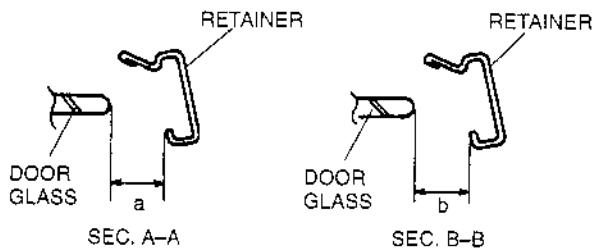
3. Tighten the bolts.

GLASS/WINDOWS/MIRRORS

Forward/Backward Adjustment

- Measure the rear edge of the door glass and the retainer.

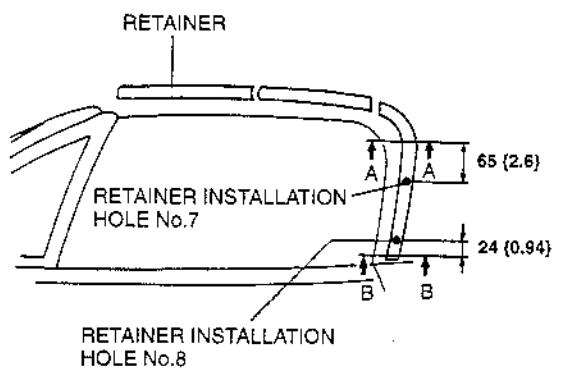
Clearance	Nominal (mm {in})	Minimum (mm {in})	Maximum (mm {in})
a	12.5 {0.492}	9.5 {0.375}	15.5 {0.610}
b	12.1 {0.476}	9.1 {0.359}	15.1 {0.594}



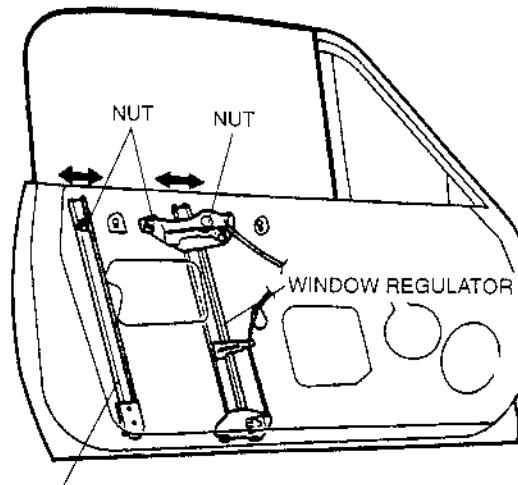
X5U912WA7

CONVERTIBLE TOP

- If not as specified, loosen the upper side of the window regulator installation nuts and that of the rear glass guide installation nuts, move the window regulator and the rear glass guide forward or backward and reposition the door glass.

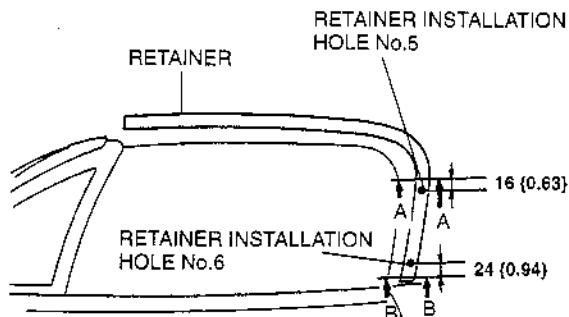


mm (in)
X5U912WAS



X5U912WA8

DETACHABLE HARDTOP



mm (in)
X5U912WAE

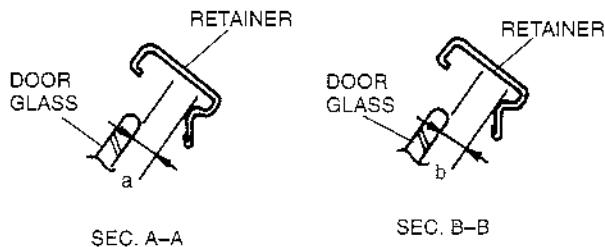
- Tighten the nuts.

GLASS/WINDOWS/MIRRORS

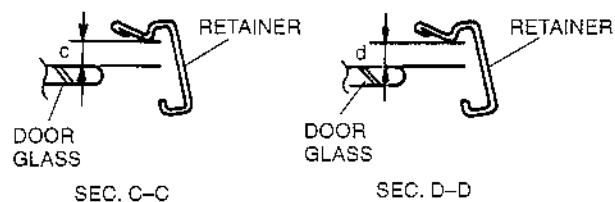
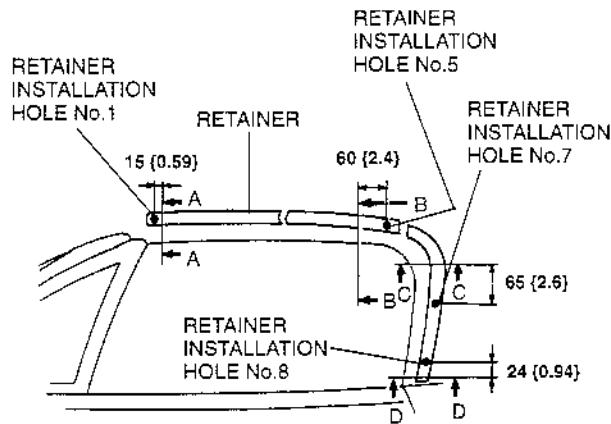
Inward/Outward Adjustment

- Measure the upper and rear edge of the door glass and the retainer.

Clearance	Nominate (mm {in})	Minimum (mm {in})	Maximum (mm {in})
a	9.6 {0.38}	6.6 {0.26}	12.6 {0.49}
b	7.8 {0.31}	4.8 {0.19}	10.8 {0.42}
c	6.2 {0.24}	3.2 {0.13}	9.2 {0.36}
d	10.8 {0.43}	7.8 {0.31}	13.8 {0.54}



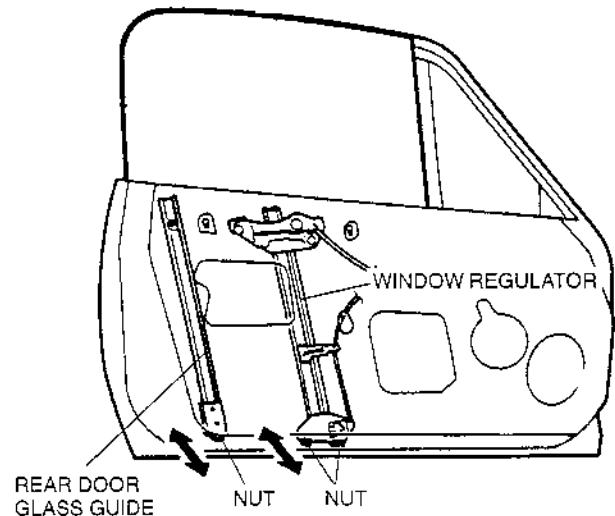
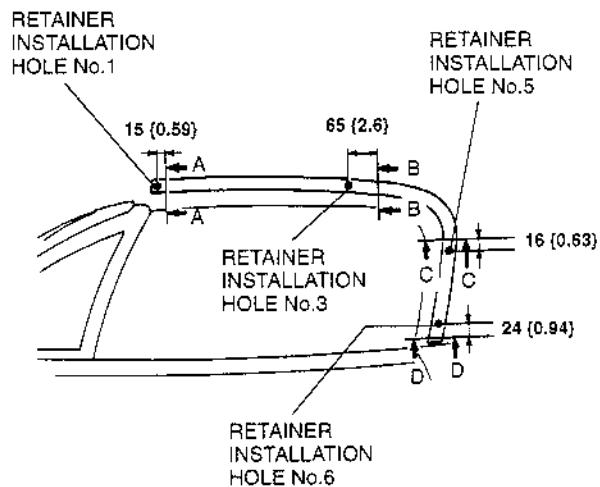
CONVERTIBLE TOP



X5U912WAB

- If not as specified, loosen the lower side of the window regulator installation nuts and that of the rear glass guide installation nuts, move the window regulator and the rear glass guide inward or outward and reposition the door glass.

DETACHABLE HARDTOP



X5U912WAC

- Tighten the nuts.

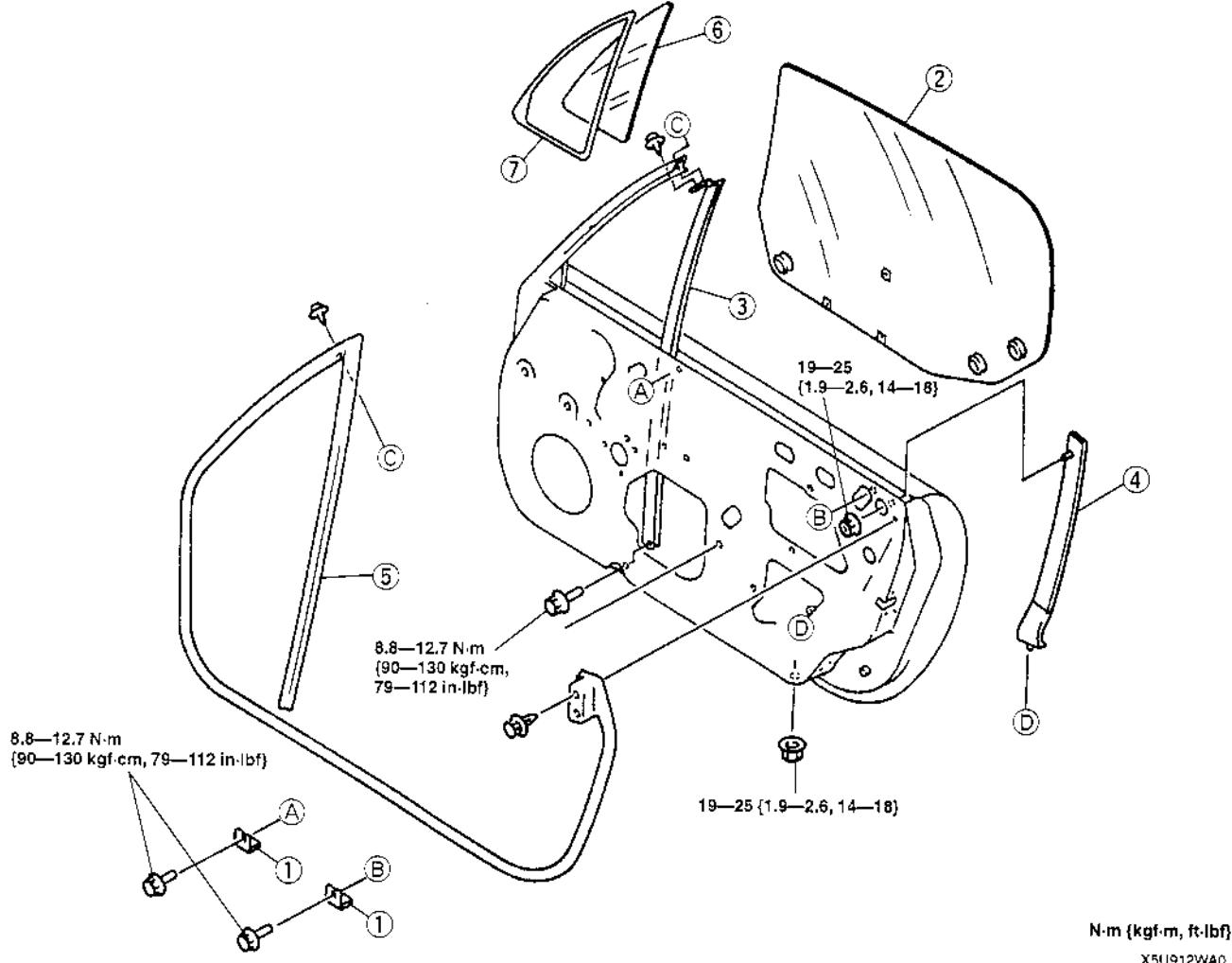
mm {in}
X5U912WAA

GLASS/WINDOWS/MIRRORS

DOOR GLASS AND GUIDE REMOVAL/INSTALLATION

X5U912W01

1. Raise the front edge of the door glass **225 mm {8.86 in}** from the fully-lowered position.
2. Disconnect the negative battery cable.
3. Remove the door screen. (Refer to 09-11 DOOR DISASSEMBLY/ASSEMBLY.)
4. Remove in the order indicated in the table.
5. Install in the reverse order of removal.
6. Adjust the door glass. (Refer to 09-12 DOOR GLASS ADJUSTMENT.)



1	Glass stopper
2	Door glass
3	Front glass guide
4	Rear glass guide

5	Door weatherstrip
6	Ventilator glass
7	Ventilator glass weatherstrip

N·m (kgf·m, ft·lbf)

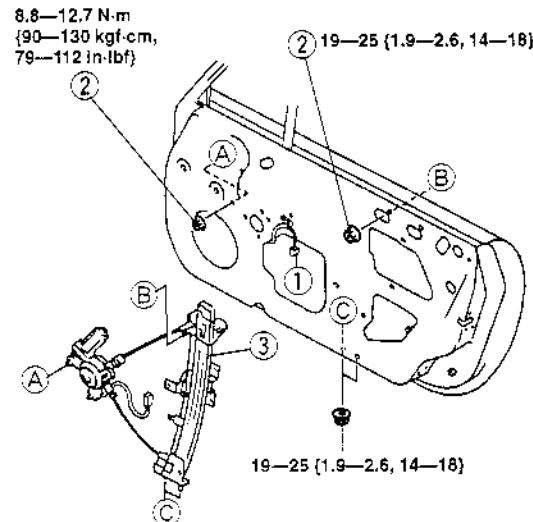
X5U912WA0

GLASS/WINDOWS/MIRRORS

POWER WINDOW REGULATOR REMOVAL/INSTALLATION

X5U912W04

1. Remove the front glass guide. (Refer to 09-12 DOOR GLASS AND GUIDE REMOVAL/INSTALLATION.)
2. Disconnect the negative battery cable.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.
5. Adjust the door glass. (Refer to 09-12 DOOR GLASS ADJUSTMENT.)



N·m (kgf·m, ft·lbf)

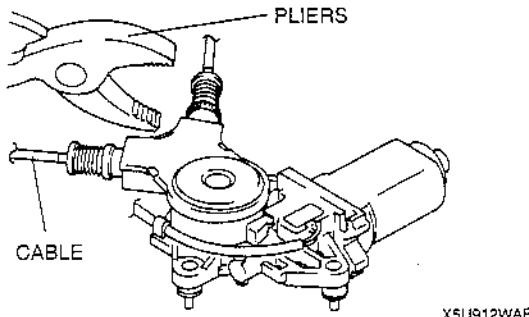
X5U912WAE

1	Connector
2	Nut
3	Power window regulator

POWER WINDOW REGULATOR DISASSEMBLY

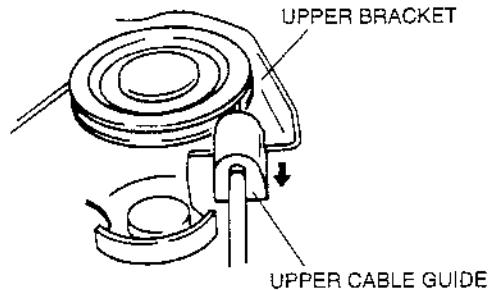
X5U912W05

1. Tighten the adjusting bolt with pliers and loosen the cable.



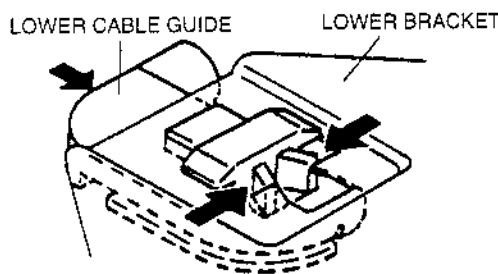
X5U912WAF

3. Disassemble the upper cable guide from the upper bracket.



X5U912WAH

2. Disassemble the lower cable guide from the lower bracket with pliers.

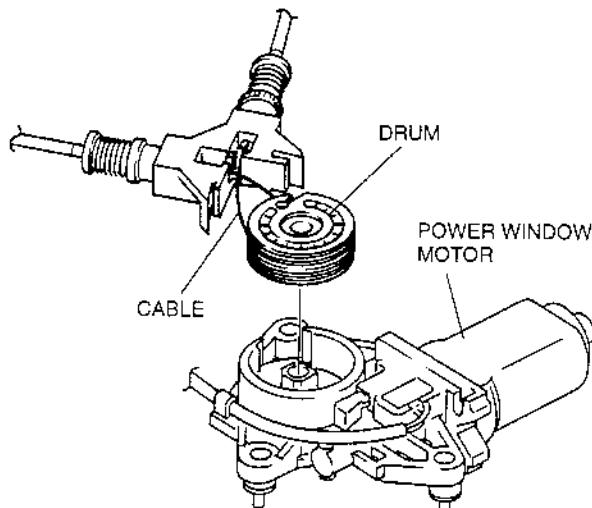


X5U912WAG

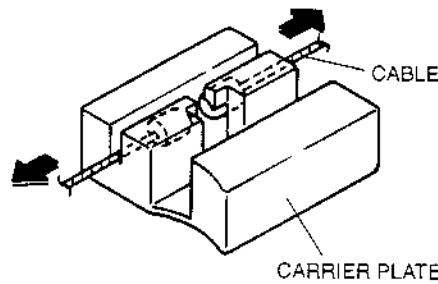
4. Disassemble the drum cover.
5. Take out the drum and disassemble the cable.

GLASS/WINDOWS/MIRRORS

6. Pull the ends of the cables and disassemble from the carrier plate one at a time.



X5U912WAJ

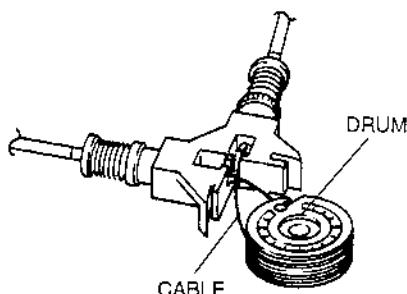


X5U912WAK

7. Disassemble the adjusting bolts.

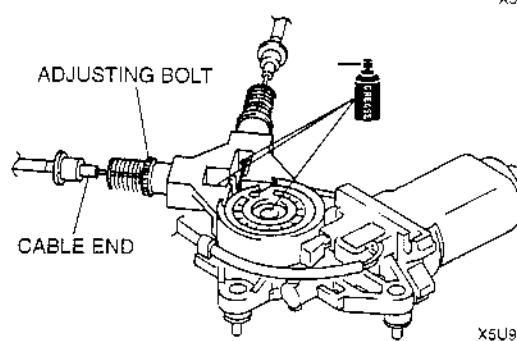
POWER WINDOW REGULATOR ASSEMBLY

1. Tighten the adjusting bolts fully.
2. Assemble the ends of the cables to the carrier plate.
3. Insert the cables into the adjusting bolts.
4. Wind the cable around the top part of the drum three times and the bottom part twice or around the top part twice and the bottom part three times, and assemble into the power window motor. Taking care to prevent the cable from getting caught between the drum and the motor and the motor housing, carefully assemble the cable onto the upper bracket pulley.



X5U912WAL

5. Verify that the ends of the cables are inserted into the adjusting bolts, shift the lower cable guide until a clicking sound is heard, and assemble to the lower bracket.
6. Apply grease to the parts shown in the figure.



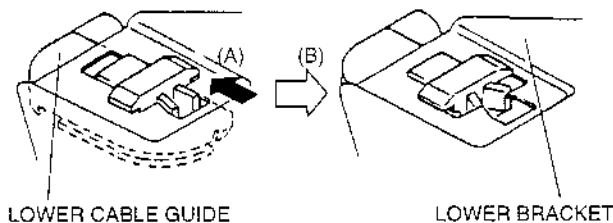
X5U912WAM

7. Assemble the drum cover.
8. For the upper part, pull the (A) part of the cable and for the lower part, pull the (B) part of the cable, and adjust the adjusting bolts making sure the coil springs don't bend.

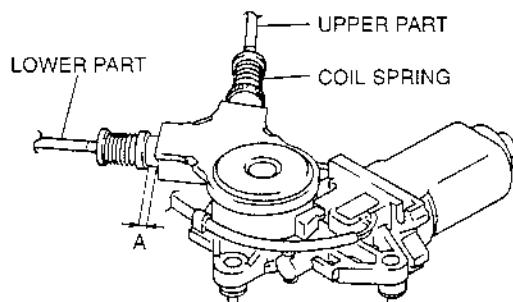
Adjustment range

A: 0.5—7.5 mm {0.1—0.2 in}

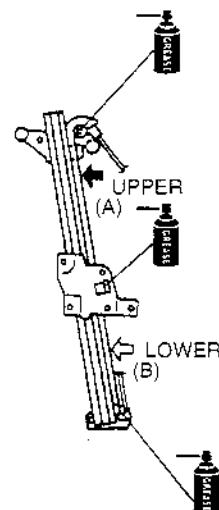
GLASS/WINDOWS/MIRRORS



LOWER CABLE GUIDE **LOWER BRACKET**



X5U912WAN



X5U912WAP

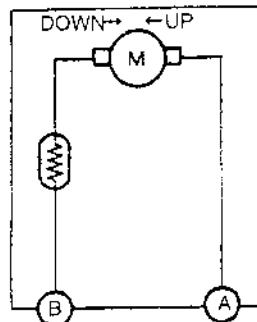
9. Fix the adjusting bolts with the thread lock.
 10. Apply grease to places where the cable moves along the pulley and to the ends of the cables.

11. After assembling, verify that the cable isn't damaged.

POWER WINDOW MOTOR INSPECTION

1. Remove the power window motor. (Refer to 09-12 POWER WINDOW REGULATOR DISASSEMBLY.)
 2. Apply battery positive voltage to the power window motor terminals and inspect the operation of the power window motor.

Connection		Motor operation
B+	GND	
A	B	Turn left (Up)
B	A	Turn right (Down)



X5U912W03

X511912WAD

3. If not as specified, replace the power window motor.

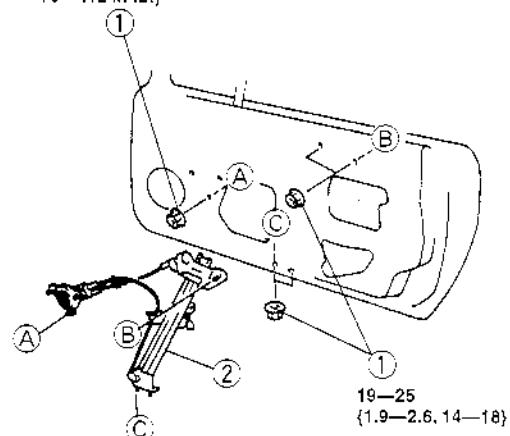
GLASS/WINDOWS/MIRRORS

MANUAL WINDOW REGULATOR REMOVAL/INSTALLATION

1. Remove the front glass guide. (Refer to 09-12 DOOR GLASS AND GUIDE REMOVAL/INSTALLATION.)
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.
4. Adjust the door glass. (Refer to 09-12 DOOR GLASS ADJUSTMENT.)

X5U912WC7

8.8—12.7 N·m
(90—130 kgf·cm,
79—112 in·lbf)



N·m (kgf·m, ft·lbf)

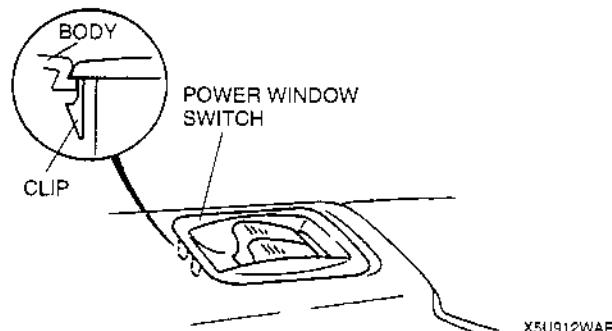
X5U912WAQ

1	Nut
2	Manual window regulator

POWER WINDOW SWITCH REMOVAL/INSTALLATION

X5U912W08

1. Disconnect the negative battery cable.
2. Remove the console. (Refer to 09-12 CONSOLE REMOVAL/INSTALLATION.)
3. Grasp the clip of the power window switch from the reverse side of the console to remove the power window switch.
4. Install in the reverse order of removal.



X5U912WAR

GLASS/WINDOWS/MIRRORS

POWER WINDOW SWITCH INSPECTION

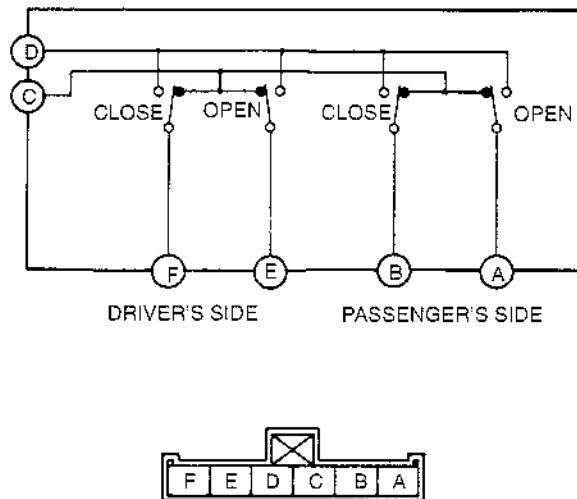
X5U912W10

1. Disconnect the negative battery cable.
2. Remove the power window switch. (Refer to 09-12 POWER WINDOW SWITCH REMOVAL/INSTALLATION.)
3. Inspect for the continuity between the power window switch terminals by using an ohmmeter.

○—○ : Continuity

Switch position		Terminal					
		A	B	C	D	E	F
OFF		○	○	○	○	○	○
Driver's side	Close	○	○	○	○	○	○
	Open	○	○	○	○	○	○
Passenger's side	Close	○	○	○	○	○	○
	Open	○	○	○	○	○	○

X5U912WAS



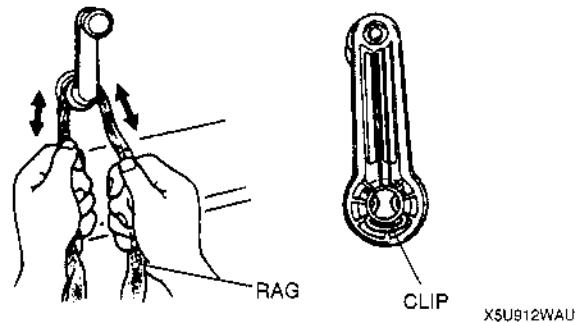
X5U912WAT

4. If not as specified, replace the power window switch.

REGULATOR HANDLE REMOVAL

X5U912W11

1. Remove the regulator handle clip by using a rag as shown.
2. Remove the regulator handle.

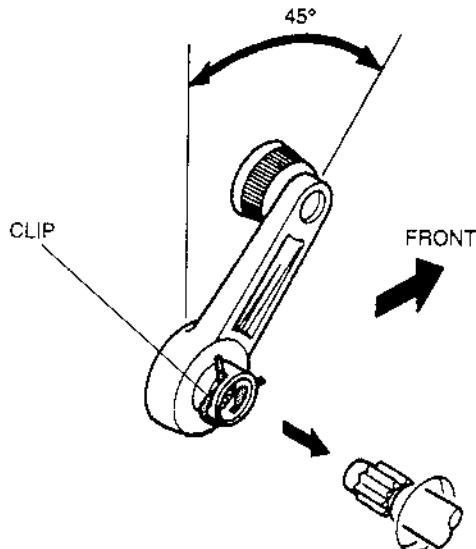


X5U912WAU

REGULATOR HANDLE INSTALLATION

1. Install the clip in the regulator handle.
2. Set the door glass at the fully-raised position and push the regulator handle on as shown.

X5U912W12



X5U912WAV

REAR WINDOW GLASS REMOVAL

Detachable Hardtop

X5U912W13

Note

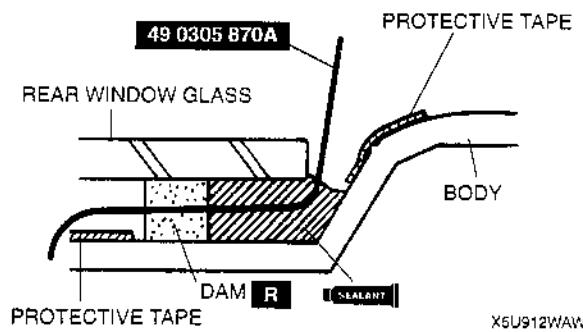
- The rear window molding is a replacement part.

1. Remove the rear window molding.
2. Apply protective tape along the edge of the body to protect it from damage.
3. Remove the rear window glass installation nuts.
4. Make a hole through the sealant and the dam from the inside of the vehicle by using an awl.

Warning

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

5. Pass the SST (piano wire) through the hole.



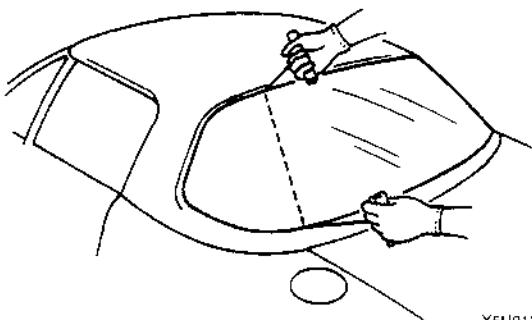
X5U912WAW

6. Wind each end of the SST (piano wire) around a bar.

Note

- Use the entire length of piano wire to prevent it from breaking when cutting through the sealant.

7. Working with another person, saw through the sealant around the edge of the glass.



X5U912WAX

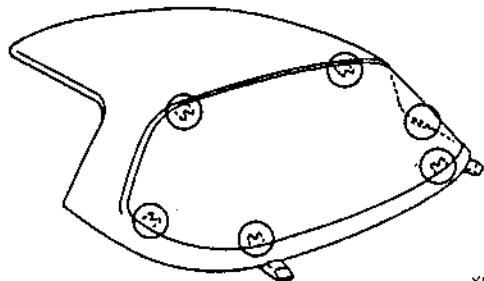
Warning

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

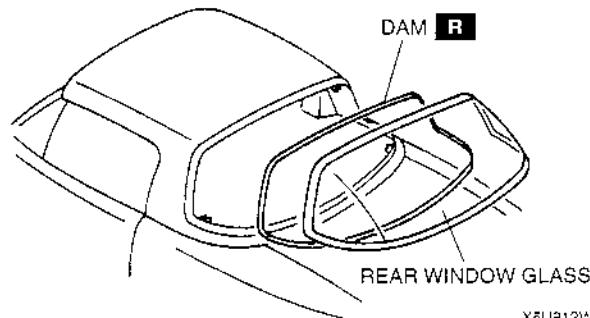
8. Use a razor knife to cut the places of rear window glass installation nuts where the piano wire will not cut.

GLASS/WINDOWS/MIRRORS

O...PLACES PIANO WIRE WILL NOT CUT



X5U912WAY



X5U912WAZ

9. Remove the rear window glass.

10. Remove the dam.

REAR WINDOW GLASS INSTALLATION

X5U912W14

Detachable Hardtop

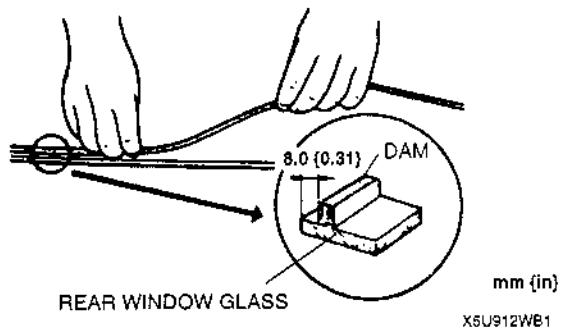
Warning

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

Caution

- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

1. Cut away the old sealant by using a razor knife so that 1—2 mm {0.04—0.07 in} thickness of sealant remains around the circumference of the frame. If all the sealant has come off in any one place, apply some primer after degreasing, and allow it **30 minutes** to dry. Then put on new sealant to create a 2 mm {0.08 in} layer.
2. Clean and degrease an **approximately 5.0 mm {1.97 in}** wide strip around the circumference of the glass and the bonding area on the body.
3. Securely bond a dam around the circumference of the glass **8.0 mm {0.31 in}** from the edge.



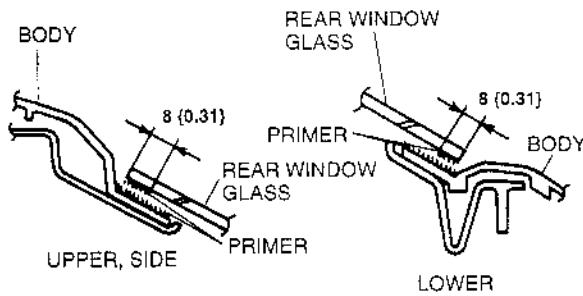
mm (in)

X5U912WB1

Caution

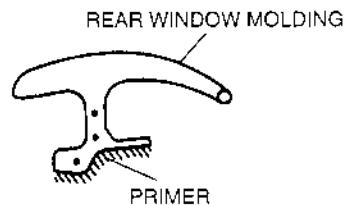
- Keep the area free of dirt and grease, and do not touch the surface or the primer may not properly bond to the surface of the glass and body which may cause leaks to occur.

4. Use a brush to apply primer to the bonding area of the glass, the body and the molding within the region shown. Use only glass primer on the glass, and body primer on the body and the molding. Allow it to dry for **approximately 30 minutes**.

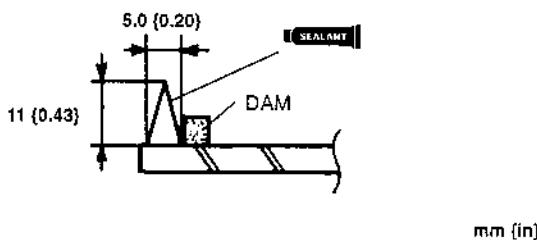


mm (in)

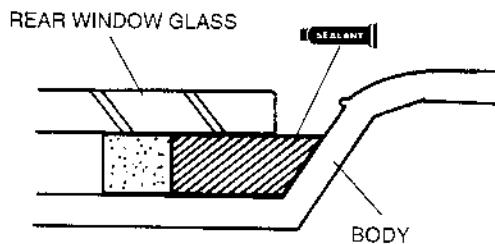
X5U912WB2



5. Once the primer is dry, apply sealant around the entire circumference to fill the gap between the dam and the edge of the glass with a **11.0—13.0 mm {0.44—0.51 in}** high and **5.0 mm {0.20 in}** wide bead of sealant.

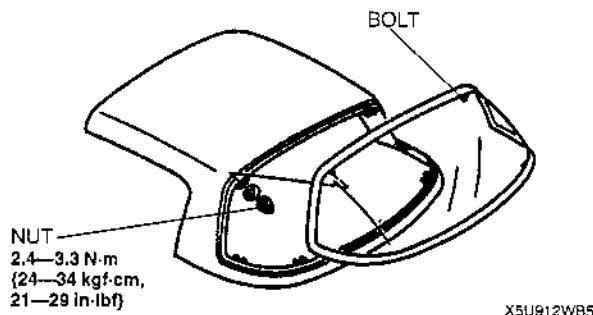


X5U912WB4



X5U912WB6

6. Align the bolts and install the glass onto the body.
7. Press firmly on the glass to compress the sealant.
8. Install the nuts onto the bolts.



9. Use a scraper to smooth away any sealant that oozes out. Add more sealant to any points of poor contact. Adjust the sealant as shown if necessary.

10. Before the surface of the sealant has hardened, install the rear window molding. (Refer to 09–16 REAR WINDOW MOLDING INSTALLATION.)

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

11. Use white gasoline to remove any excess sealant.

WINDSHIELD REMOVAL

1. Remove the rearview mirror. (Refer to 09–12 REARVIEW MIRROR REMOVAL.)
2. Remove the base. (Refer to 09–12 BASE REMOVAL.)
3. Remove the A-pillar trim. (Refer to 09–17 A-PILLAR TRIM REMOVAL/INSTALLATION.)

Note

- The windshield molding is a replacement part.

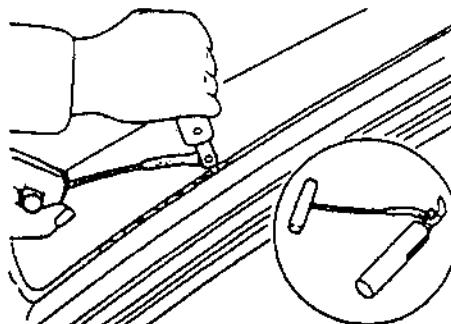
4. Remove the windshield molding. (Refer to 09–17 WINDSHIELD MOLDING REMOVAL.)
5. Remove the cowl grille. (Refer to 09–16 COWL GRILLE REMOVAL/INSTALLATION.)
6. Remove the sunvisor.
7. Remove the striker. (Refer to 09–16 CONVERTIBLE TOP DISASSEMBLY/ASSEMBLY.) (Refer to 09–16 DETACHABLE HARDTOP DISASSEMBLY/ASSEMBLY.)
8. Remove the front header trim. (Refer to 09–17 FRONT HEADER TRIM REMOVAL/INSTALLATION.)
9. Apply protective tape along the edge of the body to protect it from damage.
10. Apply protective tape to the dashboard to protect it from damage.

Not Reusing Windshield

Note

- For the areas of the sealant that are difficult to cut, use the SST (piano wire) and follow the procedures under "Reusing Windshield".

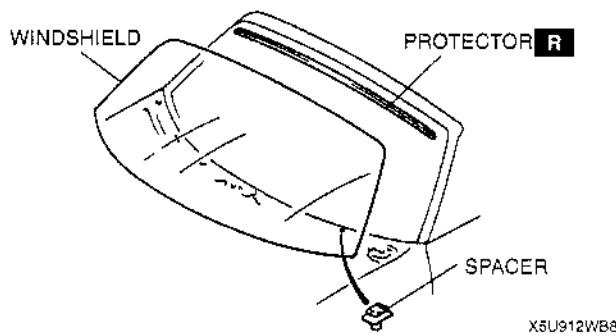
1. Use a tool like that shown in the figure, and insert the blade into the sealant.
2. Pull through the sealant around the edge of the glass.



X5U912WB7

3. Remove the windshield.
4. Remove the protector.
5. Remove the spacers.

GLASS/WINDOWS/MIRRORS



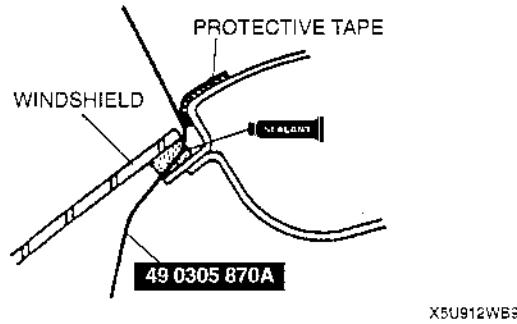
Reusing Windshield

1. Make a hole through the sealant from the inside of the vehicle by using an awl.

Warning

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

2. Pass the SST (piano wire) through the hole.

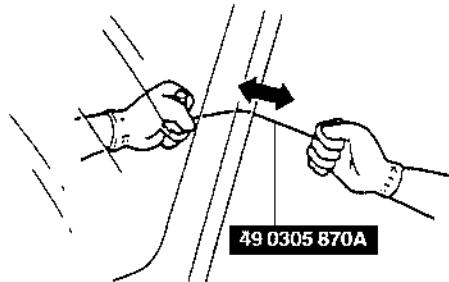


3. Wind each end of the SST (piano wire) around a bar.

Note

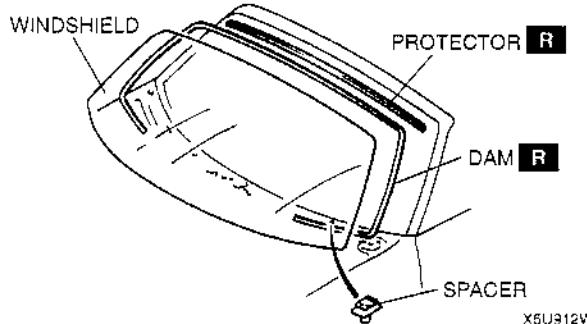
- Use the entire length of piano wire to prevent it from breaking when cutting through the sealant.

4. Working with another person, saw through the sealant around the edge of the glass.



X5U912WBA

5. Remove the windshield.
6. Remove the dam from the windshield.
7. Remove the protector.
8. Remove the spacers.



X5U912WBB

WINDSHIELD INSTALLATION

X5U912W16

Warning

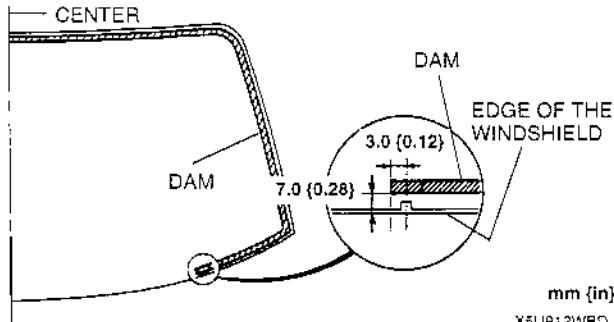
- Using a razor knife with bare hands can cause injury. Always wear gloves when using a razor knife.

Caution

- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

1. Cut away the old sealant by using a razor knife so that 1—2 mm {0.04—0.07 in} thickness of sealant remains around the circumference of the frame. If all the sealant has come off in any one place, apply some primer after degreasing, and allow **30 minutes** to dry. Then put on new sealant to create 2 mm {0.08 in} layer.

2. Clean and degrease an approximately 50.0 mm {1.97 in} wide strip around the circumference of the glass and the bonding area on the body.
3. Securely bond a dam along the circumference of the glass 7.0 mm {0.28 in} from the edge.



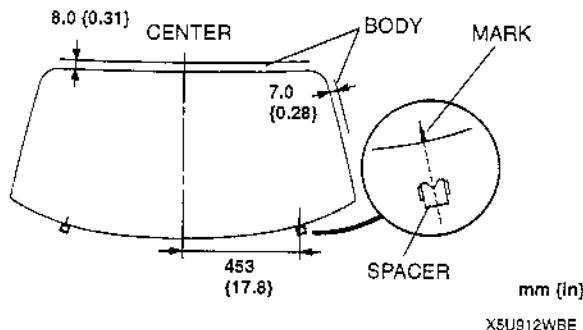
mm (in)

X5U912WBD

4. Install spacers into the hole.
5. Temporarily install the glass onto the body and adjust the glass-to-body clearance.

GLASS/WINDOWS/MIRRORS

6. Make a mark on the glass directly above the V-notch of spacers.

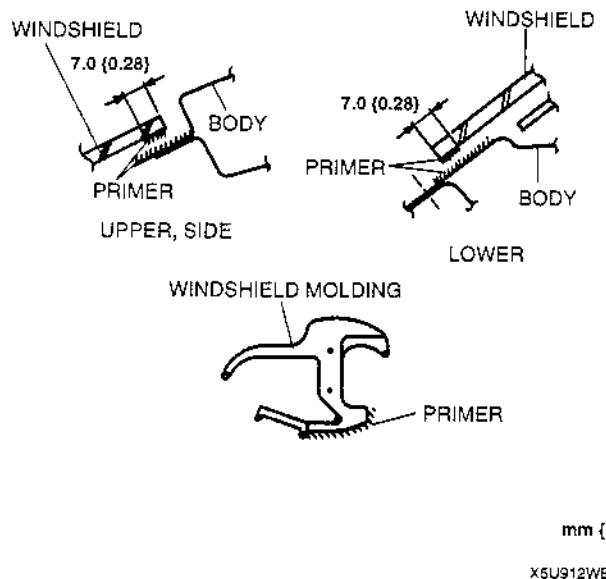


7. Remove the windshield.

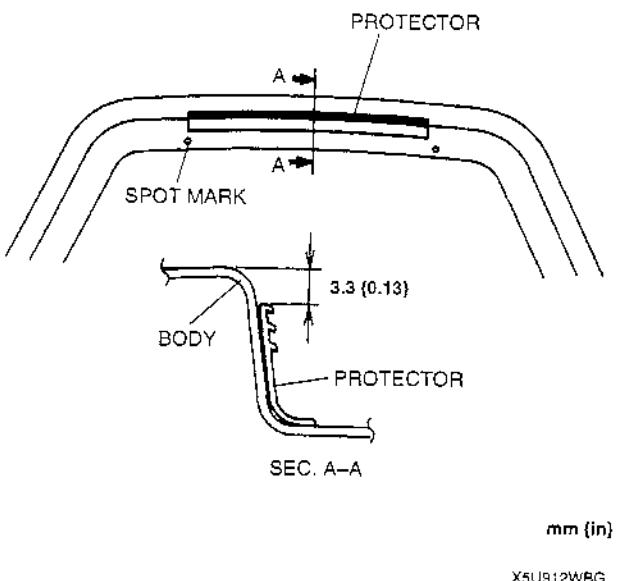
Caution

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

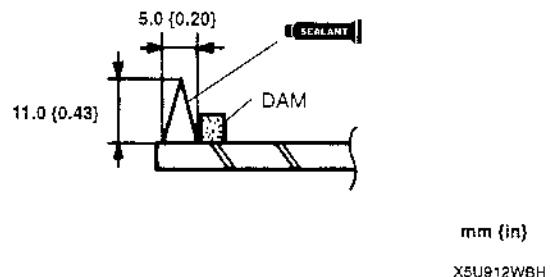
8. Use a brush to apply primer to the bonding area of the glass, the body and the molding within the region shown. Use only glass primer on the glass, and body primer on the body and the molding. Allow it to dry for approximately 30 minutes.



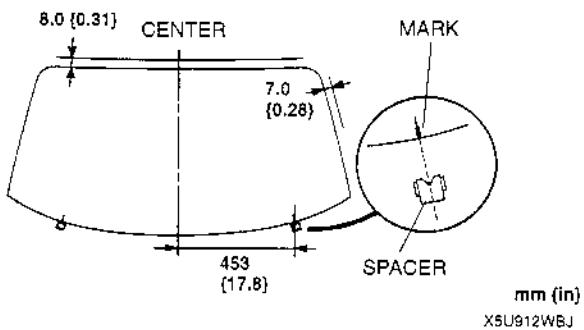
9. Align the edge of the protector to the spot mark.
10. Securely bond the protector to the body as indicated in the figure.



11. Once the primer is dry, apply sealant around the entire circumference to fill the gap between the dam and the edge of the glass measuring 11.0 mm {0.43 in} high and 5.0 mm {0.20 in} wide.

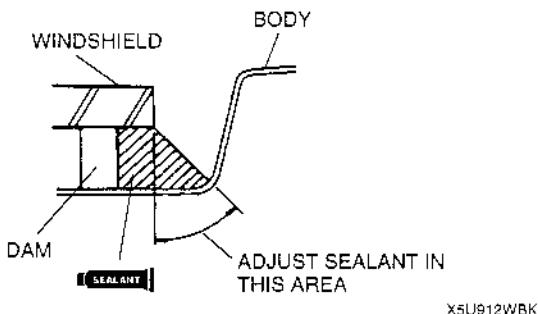


12. Align the glass marks with the V-notches in spacers and install the glass onto the body.
13. Press firmly inward on the glass to compress the sealant.
14. Verify that the gap along the upper edge is 8.0 mm {0.31 in} and side edge is 7.0 mm {0.28 in}.



15. Use a scraper to smooth away any sealant that oozes out. Add more sealant to any points of poor contact. Adjust the sealant as shown if necessary.

GLASS/WINDOWS/MIRRORS



16. Before the surface of the sealant has hardened, install the windshield molding. (Refer to 09-16 WINDSHIELD MOLDING INSTALLATION.)

17. Use white gasoline to remove any excess sealant.
18. Install the front header trim. (Refer to 09-17 FRONT HEADER TRIM REMOVAL/INSTALLATION.)
19. Install the striker. (Refer to 09-16 CONVERTIBLE TOP DISASSEMBLY/ASSEMBLY.) (Refer to 09-16 DETACHABLE HARDTOP DISASSEMBLY/ASSEMBLY.)
20. Install the cowl grille. (Refer to 09-17 COWL GRILLE REMOVAL/INSTALLATION.)
21. Install the A-pillar trim. (Refer to 09-17 A-PILLAR TRIM REMOVAL/INSTALLATION.)
22. Install the base. (Refer to 09-12 BASE INSTALLATION.)
23. Install the rearview mirror. (Refer to 09-12 REARVIEW MIRROR INSTALLATION.)

Hardening time of sealant

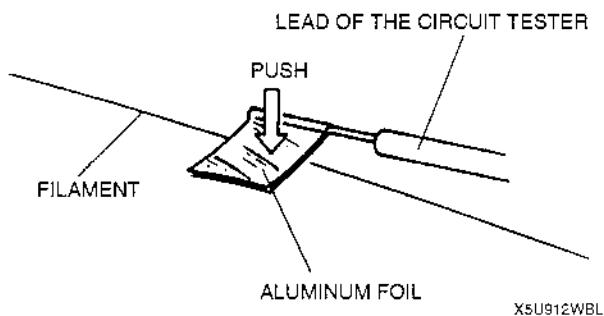
Temperature	Surface hardening time	Time required until car can be put into service
5 °C (41 °F)	Approx. 1.5 h	Approx. 12 h
20 °C (68 °F)	Approx. 1 h	Approx. 4 h
35 °C (95 °F)	Approx. 10 min	Approx. 2 h

FILAMENT INSPECTION

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

Caution

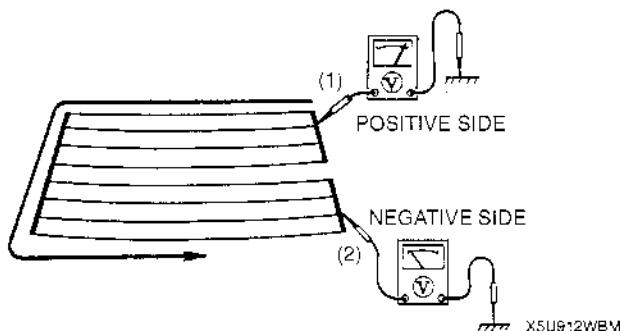
- Directly touching the rear window defroster filament with the lead of the circuit tester will damage it. Wrap aluminum foil around the end of the lead and test the filament by touching it with the foil.



3. Connect the positive (+) lead of the voltmeter to the positive side of each filament and the negative (-) lead to ground.

- X5U912W17
4. Gradually, slide the positive (+) lead from the positive side to the negative side and measure the voltage. Verify that the voltage decrease accordingly.

Measurement place	Voltage (Reference value)
(1) → (2)	Approx. 12 V → Approx. 0 V

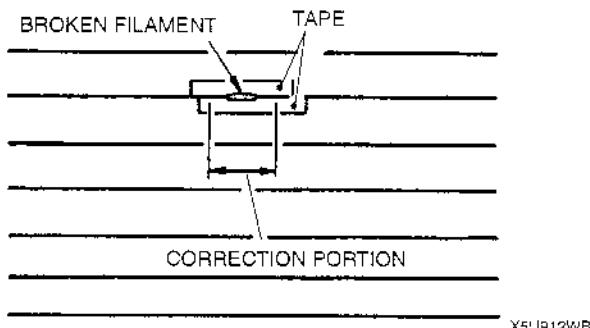


5. If the voltage is not as specified or it changes rapidly, the filament is faulty. Repair the filament.

GLASS/WINDOWS/MIRRORS

FILAMENT REPAIR

1. Use white gasoline to clean around the damaged section of the filament.
2. Attach tape above and below the damaged section of the filament.



X5U912WBN

X5U912W18

3. Using a small brush or marking pen, repair the filament with silver paint or equivalent.
4. After **approximately 2—3 minutes**, carefully remove the tape without disturbing the repaired area.

Caution

- Do not use the rear window defroster until the paint is completely dry. It may cause other malfunctions if it is used before the paint is dry.

5. Use a hot air blower heated to **150 °C {302 °F}** for **30 minutes** or let the paint set for **24 hours** at **25 °C {77 °F}** to allow it to dry completely.

REAR WINDOW DEFROSTER SWITCH REMOVAL/INSTALLATION

X5U912W21

Note

- Rear window defroster switch is together with the fan and rear window defroster switch.

(Refer to 07-40 HEATER CONTROL UNIT DISASSEMBLY/ASSEMBLY.)

REAR WINDOW DEFROSTER SWITCH INSPECTION

X5U912W22

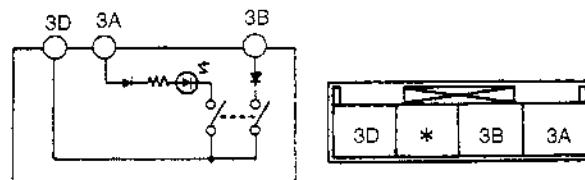
1. Remove the heater control unit. (Refer to 07-40 HEATER CONTROL UNIT REMOVAL.)
2. Inspect for continuity between the rear window defroster switch terminals by using an ohmmeter.

○ → ○ : Diode

Switch position	Terminal	
	3B	3D
Off		
On	○ → ○	

X5U912WBS

3. Connect battery positive voltage to terminal 3A and ground to the terminal 3D.
4. Turn the rear window defroster switch on.
5. Verify that the LED illuminates.
6. If not as specified, replace the fan and rear window defroster switch.



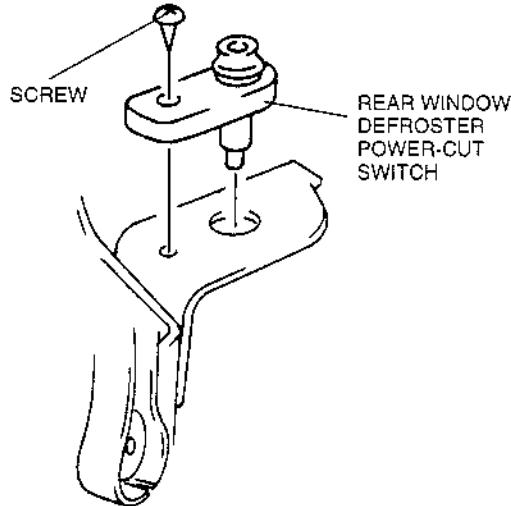
X5U912WBT

GLASS/WINDOWS/MIRRORS

REAR WINDOW DEFROSTER POWER-CUT SWITCH REMOVAL/INSTALLATION

X5U912W35

1. Remove the convertible top. (Refer to 09-16 CONVERTIBLE TOP REMOVAL/INSTALLATION.)
2. Remove the screw to remove the rear window defroster power-cut switch.
3. Install in the reverse order of removal.



X5U912WC9

REAR WINDOW DEFROSTER POWER-CUT SWITCH INSPECTION

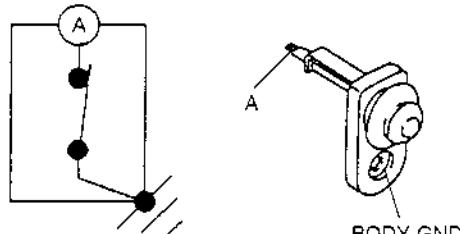
X5U912W36

1. Remove the rear window defroster power-cut switch. (Refer to 09-12 REAR WINDOW DEFROSTER POWER-CUT SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the rear window defroster power-cut switch terminal and a body ground by using an ohmmeter.

○—○ : Continuity

Switch position	Terminal	
	A	Body GND
Pressed		
Released	○	○

X5U912WCB



X5U912WCA

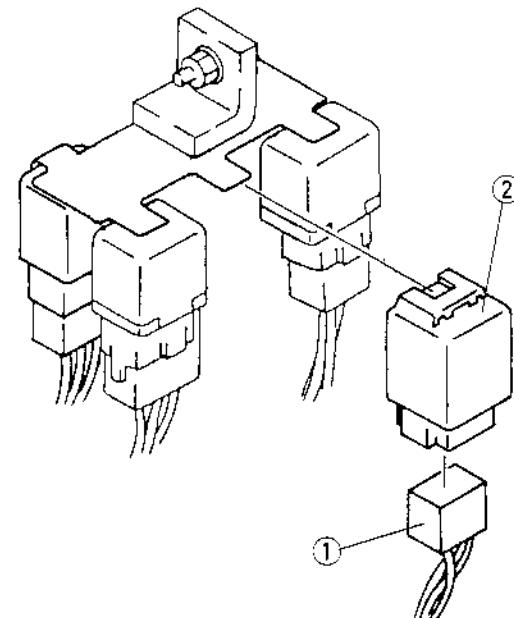
3. If not as specified, replace the door switch.

GLASS/WINDOWS/MIRRORS

REAR WINDOW DEFROSTER RELAY REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

X5U912W19



X5U912WBP

1	Connector
2	Rear window defroster relay

REAR WINDOW DEFROSTER RELAY INSPECTION

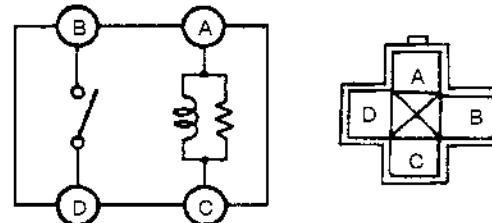
X5U912W20

1. Remove the rear window defroster relay. (Refer to 09-12 REAR WINDOW DEFROSTER RELAY REMOVAL/INSTALLATION.)
2. Inspect for continuity between the rear window defroster relay terminals by using an ohmmeter.

○—○ : Continuity

Step	Terminal			
	A	C	B	D
1	○—○	○—○		
2	B+	GND	○—○	○—○

X5U912WBQ



X5U912WB8

3. If not as specified, replace the rear window defroster relay.

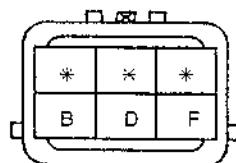
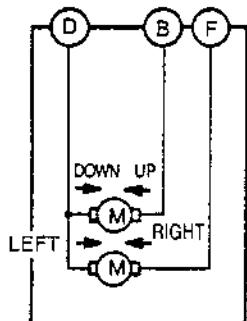
POWER OUTSIDE MIRROR INSPECTION

X5U912W23

1. Remove the door speaker. (Refer to 09-20 DOOR SPEAKER REMOVAL/INSTALLATION.)
2. Disconnect the power outside mirror connector. (Refer to 09-12 POWER OUTSIDE MIRROR REMOVAL/INSTALLATION.)
3. Apply battery positive voltage to the power outside mirror terminals and inspect the operation of the power outside mirror.

Terminal		Mirror operation
B+	GND	
B	D	Up
D	B	Down
D	F	Left
F	D	Right

GLASS/WINDOWS/MIRRORS



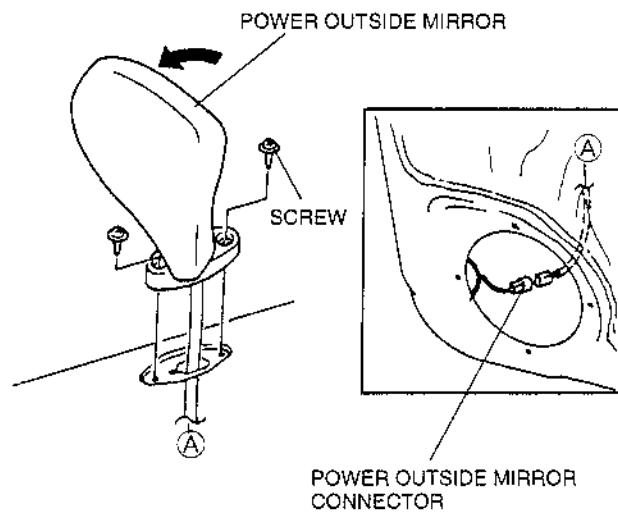
X5U912WBU

4. If not as specified, replace the power outside mirror.

POWER OUTSIDE MIRROR REMOVAL/INSTALLATION

X5U912W24

1. Disconnect the negative battery cable.
2. Remove the door speaker. (Refer to 09-20 DOOR SPEAKER REMOVAL/INSTALLATION.)
3. Disconnect the power outside mirror connector.
4. Turn the power outside mirror forward.
5. Remove the screws.
6. Remove the power outside mirror.
7. Install in the reverse order of removal.



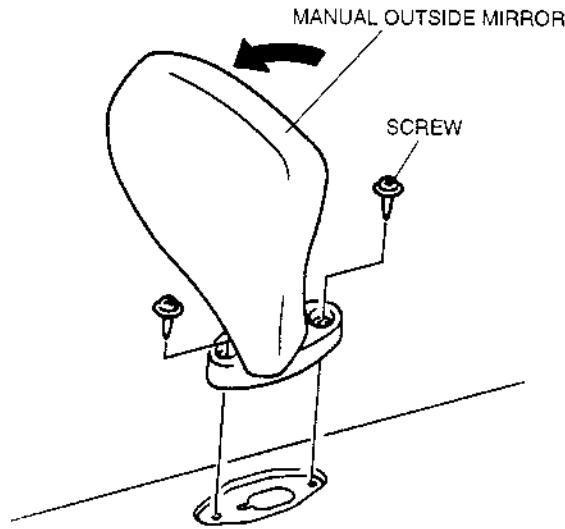
X5U912WBV

GLASS/WINDOWS/MIRRORS

MANUAL OUTSIDE MIRROR REMOVAL/INSTALLATION

X5U912W25

1. Turn the manual outside mirror forward.
2. Remove the screws.
3. Remove the manual outside mirror.
4. Install in the reverse order of removal.

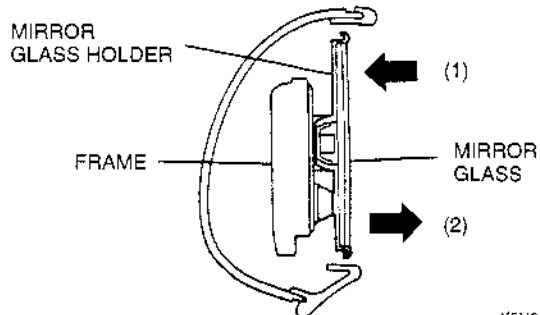


X5U912WBW

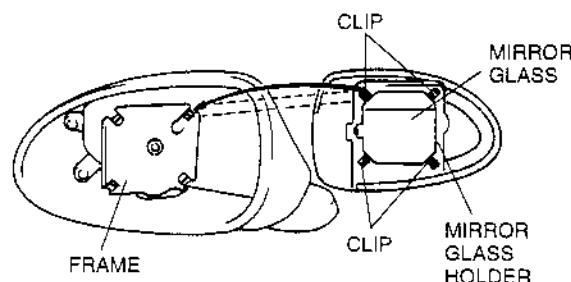
OUTSIDE MIRROR GLASS REMOVAL

X5U912W27

1. Put on gloves and safety glasses.
2. Push the top of the mirror glass (1).
3. Pull the bottom of the mirror glass to disengage clips and remove the mirror glass holder with the mirror glass from the frame (2).



X5U912WBX

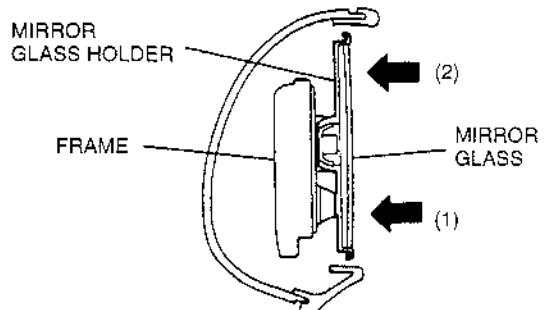


X5U912WC8

GLASS/WINDOWS/MIRRORS

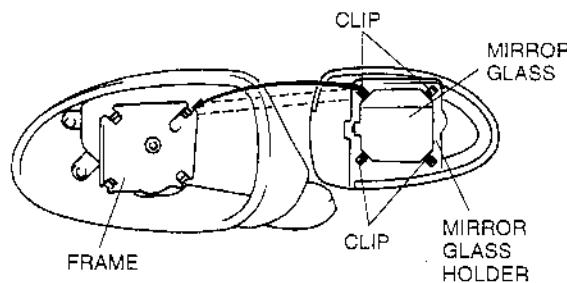
OUTSIDE MIRROR GLASS INSTALLATION

1. Put on gloves and safety glasses.
2. Insert the bottom of the mirror glass holder with the mirror glass into the frame to install the lower clips (1).
3. Press the top of the mirror glass holder with the mirror glass onto the frame to install the upper clips (2).



X5U912WBY

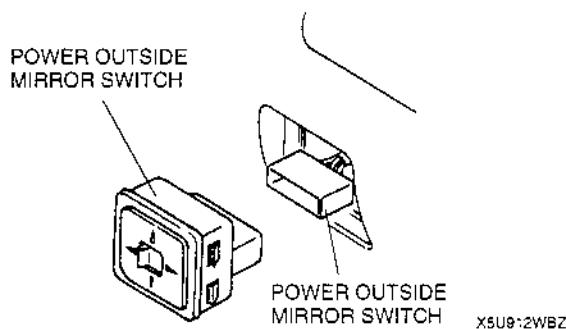
X5U912W28



X5U912WC8

POWER OUTSIDE MIRROR SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Grasp the left and right sides of the power outside mirror switch and push it out to remove it.
4. Disconnect the power outside mirror switch connector.
5. Remove the power outside mirror switch.
6. Install in the reverse order of removal.



X5U912WBZ

X5U912W26

GLASS/WINDOWS/MIRRORS

POWER OUTSIDE MIRROR SWITCH INSPECTION

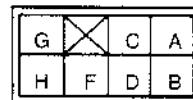
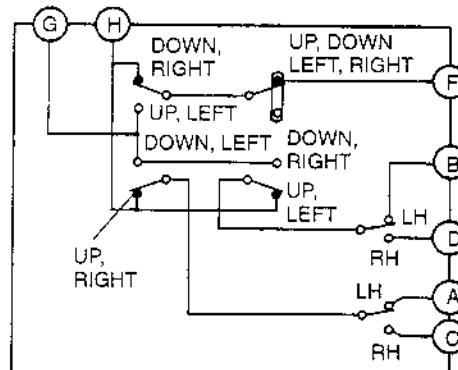
1. Remove the power outside mirror switch. (Refer to 09-12 POWER OUTSIDE MIRROR SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the power outside mirror switch terminals by using an ohmmeter.

○—○ : Continuity

Switch position	Terminal						
	A	B	C	D	F	G	H
LH	Up	○	○		○—○		○
	Down	○	○		○—○		○
	Left	○			○—○		○
	Right	○			○—○		○
RH	Up			○—○	○—○		○
	Down			○—○	○—○		○
	Left			○	○—○		○
	Right			○	○—○		○

X5U912WC0

X5U912W34



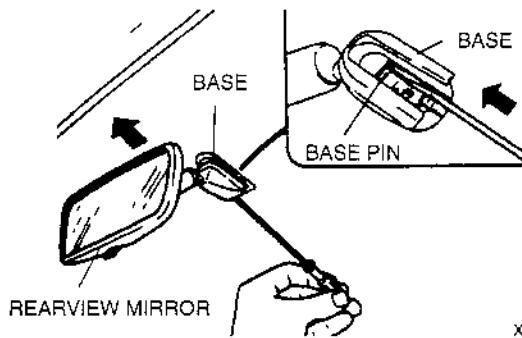
X5U912WC1

3. If not as specified, replace the power outside mirror switch.

REARVIEW MIRROR REMOVAL

X5U912WC29

1. Insert a flathead screwdriver between the mirror and the base.
2. Push the base pin to remove the rearview mirror.



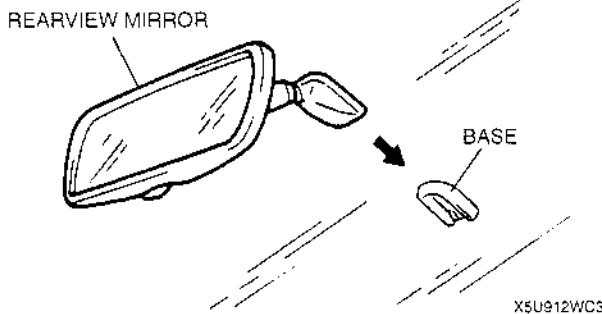
X5U912WC2

GLASS/WINDOWS/MIRRORS

REARVIEW MIRROR INSTALLATION

X5U912W30

- Install the rearview mirror onto the base.



BASE REMOVAL

X5U912W31

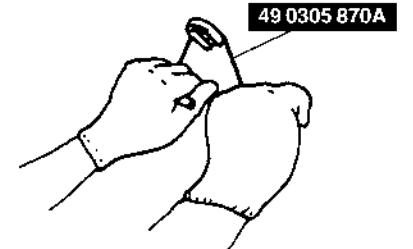
1. Remove the rearview mirror.
2. Wind each end of the SST (piano wire) around a bar.

Warning

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

Note

- Use the entire length of piano wire to prevent it from breaking when cutting through the sealant.



X5U912WC4

BASE INSTALLATION

X5U912W32

Warning

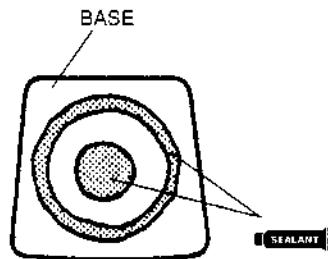
- Using a razor knife with bare hands can cause injury. Always wear gloves when using a razor knife.

1. Cut away all of the original sealant by using a razor knife.
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 or the primer may not properly bond to the surface of the glass.

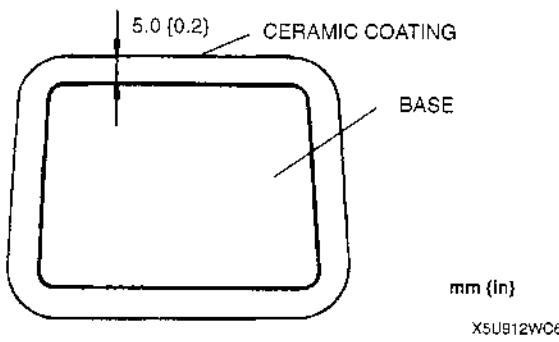
3. Apply primer to the bonding area of the glass and the base. Use only glass primer on the glass, and body primer on the base. Allow the primer to dry for approximately 30 minutes.
4. Apply a height of 3.0 mm {0.12 in} sealant to the base.



X5U912WC5

5. Center the base in the ceramic coating and press it onto the glass.

GLASS/WINDOWS/MIRRORS



X5U912W08

6. Use white gasoline to remove any excess 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

7. Install the rearview mirror.

09-13 SEAT

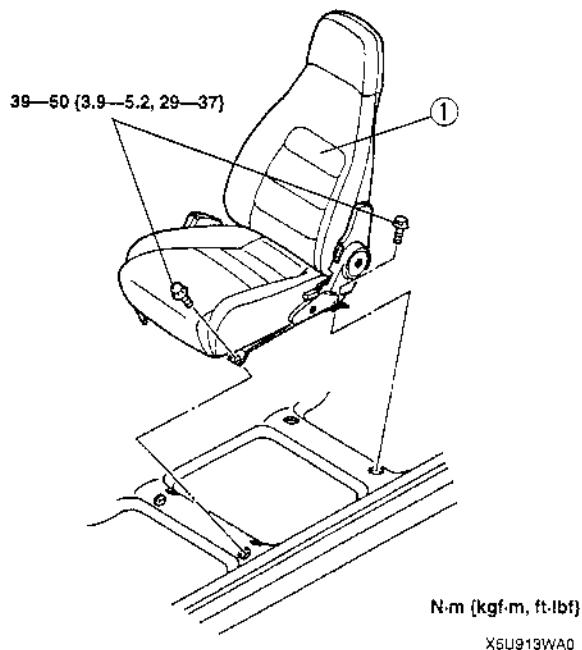
SEAT REMOVAL/INSTALLATION 09-13-1

SEAT DISASSEMBLY/ASSEMBLY 09-13-2

SEAT REMOVAL/INSTALLATION

1. Remove as indicated in the table.
2. Install in the reverse order of removal.

X5J913WC1



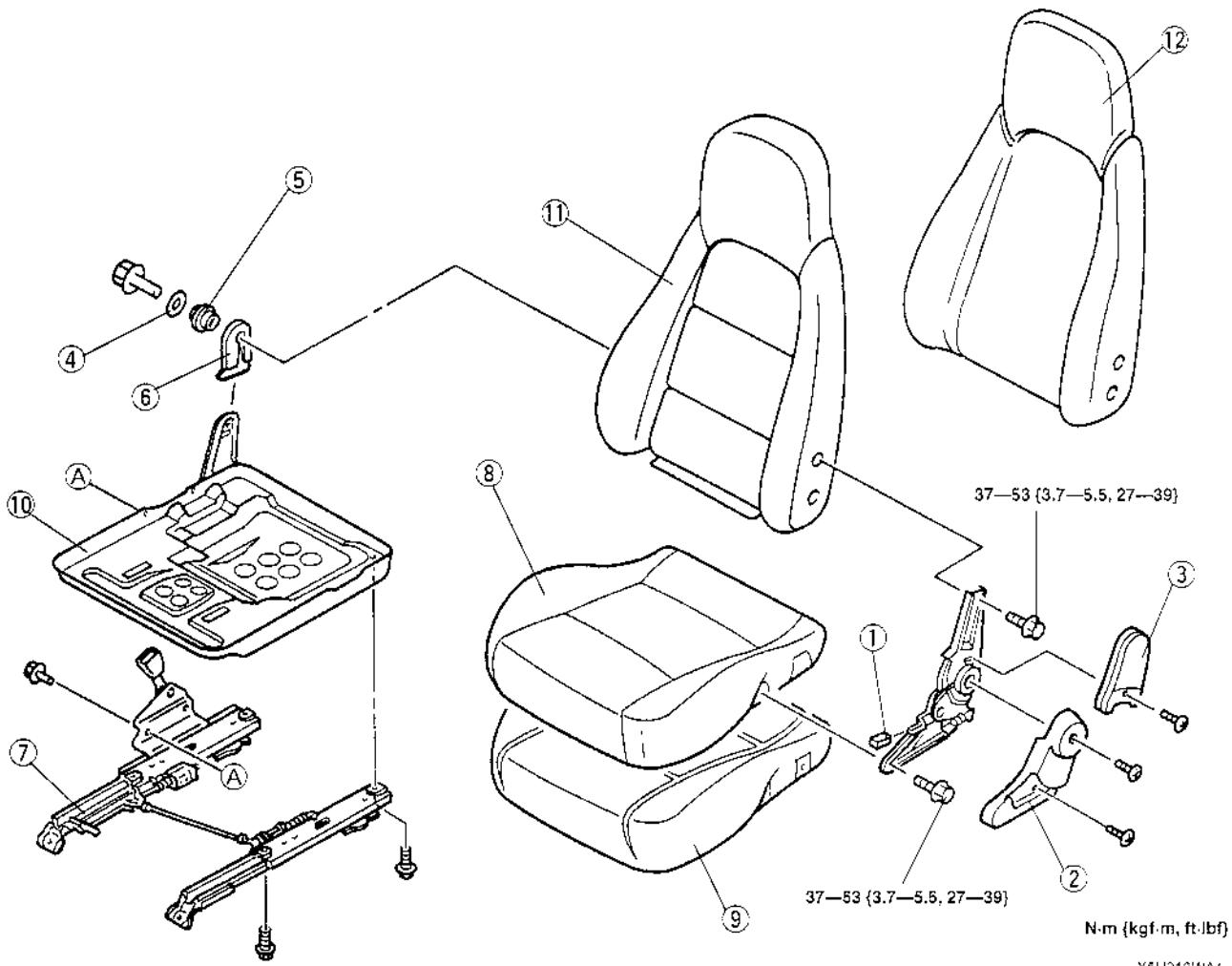
1	Seat
---	------

SEAT

SEAT DISASSEMBLY/ASSEMBLY

X5U913W02

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



N·m (kgf·m, ft·lbf)

X5U913WA1

1	Recliner lever
2	Recliner knuckle cover
3	Side cover
4	Silencer
5	Bushing
6	Hinge cover

7	Slide adjuster
8	Seat cushion trim
9	Seat cushion pad
10	Seat cushion frame
11	Seat back trim
12	Seat back pad and frame

09-14 SECURITY AND LOCKS

DOOR LOCK AND OPENER

REMOVAL/INSTALLATION	09-14-1
DOOR LOCK ACTUATOR INSPECTION	09-14-1
DOOR LOCK-LINK SWITCH INSPECTION	09-14-2
DOOR LOCK STRIKER REMOVAL/INSTALLATION	09-14-2
DOOR LOCK CONTROL MODULE INSPECTION	09-14-3
Terminal Voltage List (Reference)	09-14-3

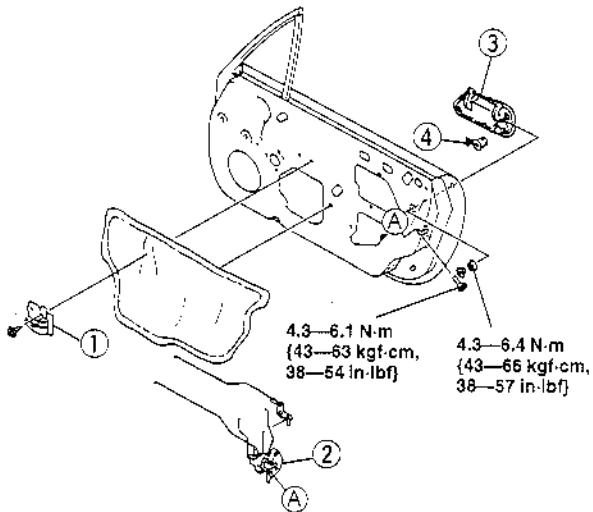
DOOR LOCK CONTROL MODULE

REMOVAL/INSTALLATION	09-14-4
FUEL-FILLER LID OPENER REMOVAL/INSTALLATION	09-14-5
HOOD LOCK AND OPENER REMOVAL/INSTALLATION	09-14-6
TRUNK LID LOCK AND OPENER REMOVAL/INSTALLATION	09-14-6
TRUNK LID STRIKER REMOVAL/INSTALLATION	09-14-7

DOOR LOCK AND OPENER REMOVAL/INSTALLATION

1. Raise the door glass fully.
2. Disconnect negative battery cable.
3. Remove the door trim. (Refer to 09-17 DOOR TRIM REMOVAL/INSTALLATION.)
4. To remove the door lock, remove the rear glass guide. (Refer to 09-11 DOOR DISASSEMBLY/ASSEMBLY.)
5. Remove in the order indicated in the table.
6. Install in the reverse order of removal.

XEU914W01



X5U914WA0

1	Inner handle
2	Door lock
3	Outer handle
4	Door key cylinder

DOOR LOCK ACTUATOR INSPECTION

Note

- The door lock actuator is together with the passenger's side door lock.

1. Remove the passenger's side door trim. (Refer to 09-17 DOOR TRIM REMOVAL/INSTALLATION.)
2. Remove the door screen.
3. Disconnect the door lock actuator connector.

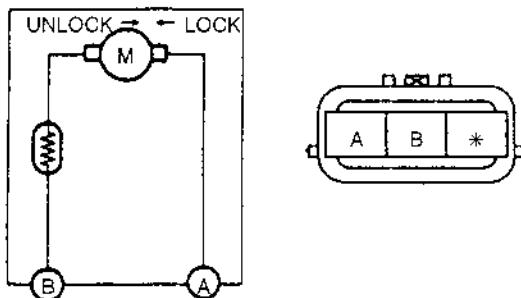
4. Apply battery positive voltage to the door lock actuator terminals and inspect the operation of the door lock actuator.

X5U914W02

SECURITY AND LOCKS

Connection		Actuator operation
B+	GND	
A	B	Lock
B	A	Unlock

5. If not as specified, replace the passenger's side door lock.



X5U914WA1

DOOR LOCK-LINK SWITCH INSPECTION

X5U914W03

Note

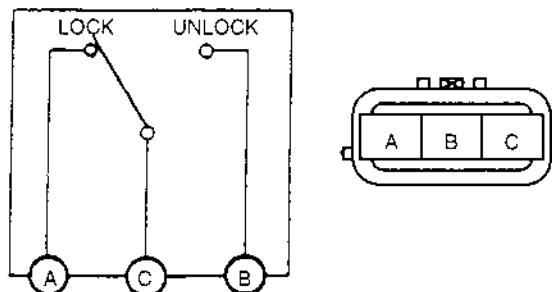
- The door lock-link switch is together with the driver's side door lock.

- Remove the driver's side door trim. (Refer to 09-17 DOOR TRIM REMOVAL/INSTALLATION.)
- Remove the door screen.
- Disconnect the door lock-link switch connector.
- Inspect for continuity between the door lock-link switch terminals by using an ohmmeter.

○—○ : Continuity

Lock knob position	Terminal		
	A	C	B
Lock	○	—○	
Unlock		○—○	

X5U914WA2



X5U914WA3

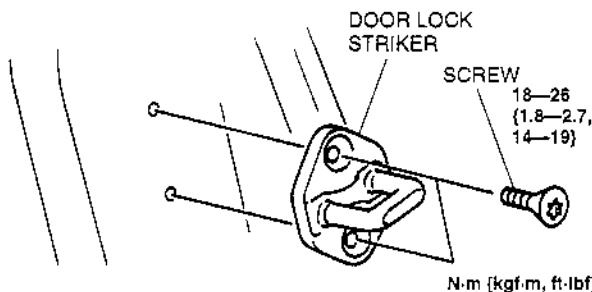
5. If not as specified, replace the driver's side door lock.

DOOR LOCK STRIKER REMOVAL/INSTALLATION

X5U914W06

- Remove the screws.

- Remove the door lock striker.



N·m (kgf·m, ft-lbf)

X5U914WA6

- Install in the reverse order of removal.

- Adjust the door. (Refer to 09-11 DOOR ADJUSTMENT.)

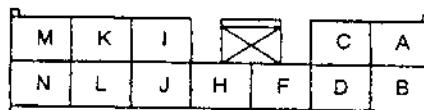
SECURITY AND LOCKS

DOOR LOCK CONTROL MODULE INSPECTION

1. Remove the lower panel.
2. Measure the voltage at the door lock control module terminals as indicated below.
3. Disconnect the door lock control module connector before inspect for continuity at terminals K, L and N.
4. If not as specified, inspect the parts listed under "Inspection area" and the related wiring harnesses.
5. If the parts and wiring harnesses are okay but the system still does not work properly, replace the door lock control module.

X5U914W04

Terminal Voltage List (Reference)



X5U914WA4

Terminal	Signal	Connection	Test condition	Voltage (V)/Continuity	Inspection area
A	Power supply	D.LOCK 10 A fuse	Constant	B+	D.LOCK 10 A fuse
B	—	Not used	—	—	—
C	Unlock output	Door lock actuator	Door lock actuator is unlocked	0→B+→0	Door lock actuator
			Other	0	
D	Lock output	Door lock actuator	Door lock actuator is locked	0→B+→0	Door lock actuator
			Other	0	
F	—	Not used	—	—	—
H	—	Not used	—	—	—
I	—	Not used	—	—	—
J	—	Not used	—	—	—
K	Lock input	Door lock-link switch	Door lock-link switch is at lock: inspect for continuity to ground	Yes	Door lock-link switch
			Door lock-link switch is at unlock: inspect for continuity to ground	No	
L	Unlock input	Door lock-link switch	Door lock-link switch is at lock: inspect for continuity to ground	No	Door lock-link switch
			Door lock-link switch is at unlock: inspect for continuity to ground	Yes	
M	—	Not used	—	—	—
N	GND	Ground	Constant: inspect for continuity to ground	Yes	—

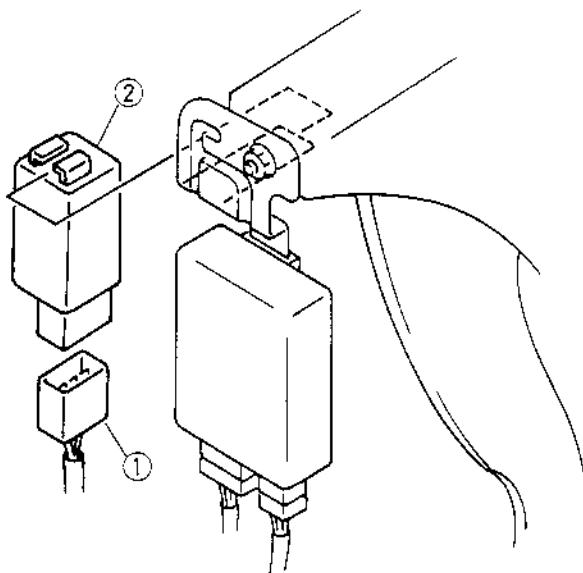
SECURITY AND LOCKS

DOOR LOCK CONTROL MODULE REMOVAL/INSTALLATION

X5U914W05

1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

1	Connector
2	Door lock control module



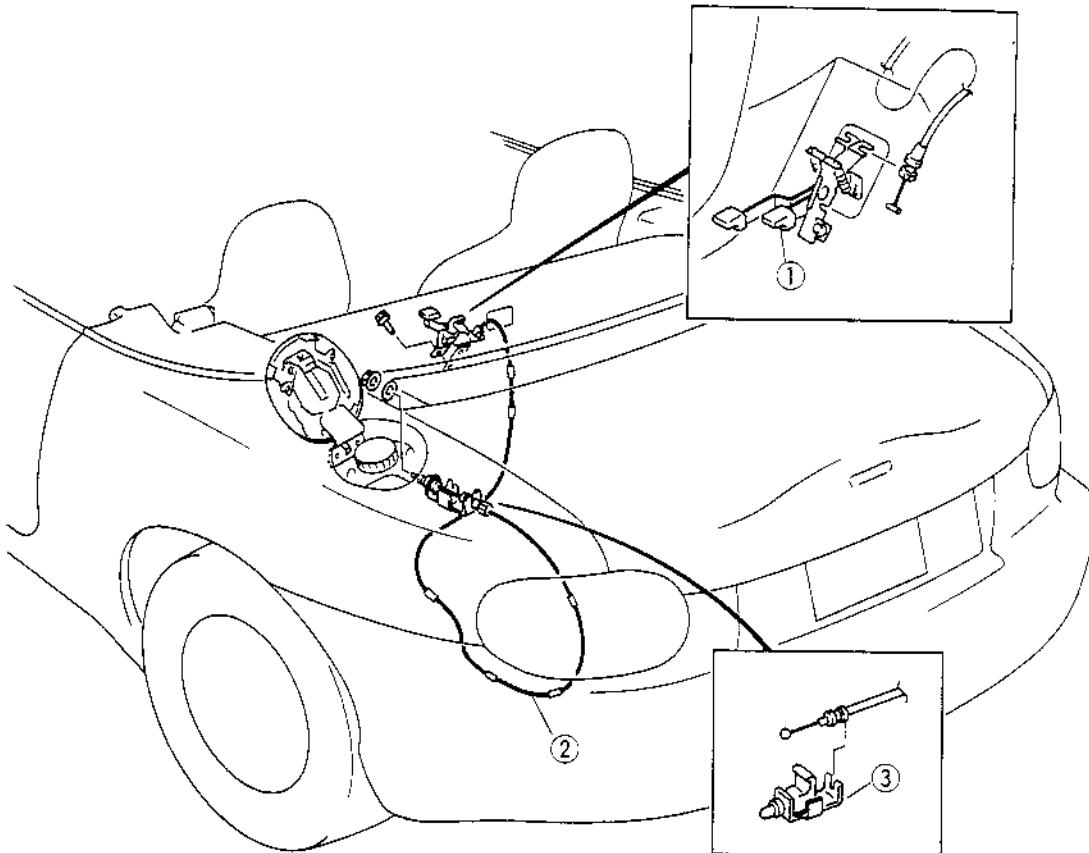
X5U914WA6

SECURITY AND LOCKS

FUEL-FILLER LID OPENER REMOVAL/INSTALLATION

X5U914W07

1. Remove the rear console. (Refer to 09–17 REAR CONSOLE REMOVAL/INSTALLATION.)
2. Remove the rear package trim. (Refer to 09–17 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
3. Remove the rear end mat.
4. Remove the driver's side trunk side trim.
5. Remove in the order indicated in the table.
6. Install in the reverse order of removal.



X5U914WA7

1	Fuel-filler lid opener lever
2	Fuel-filler lid opener cable

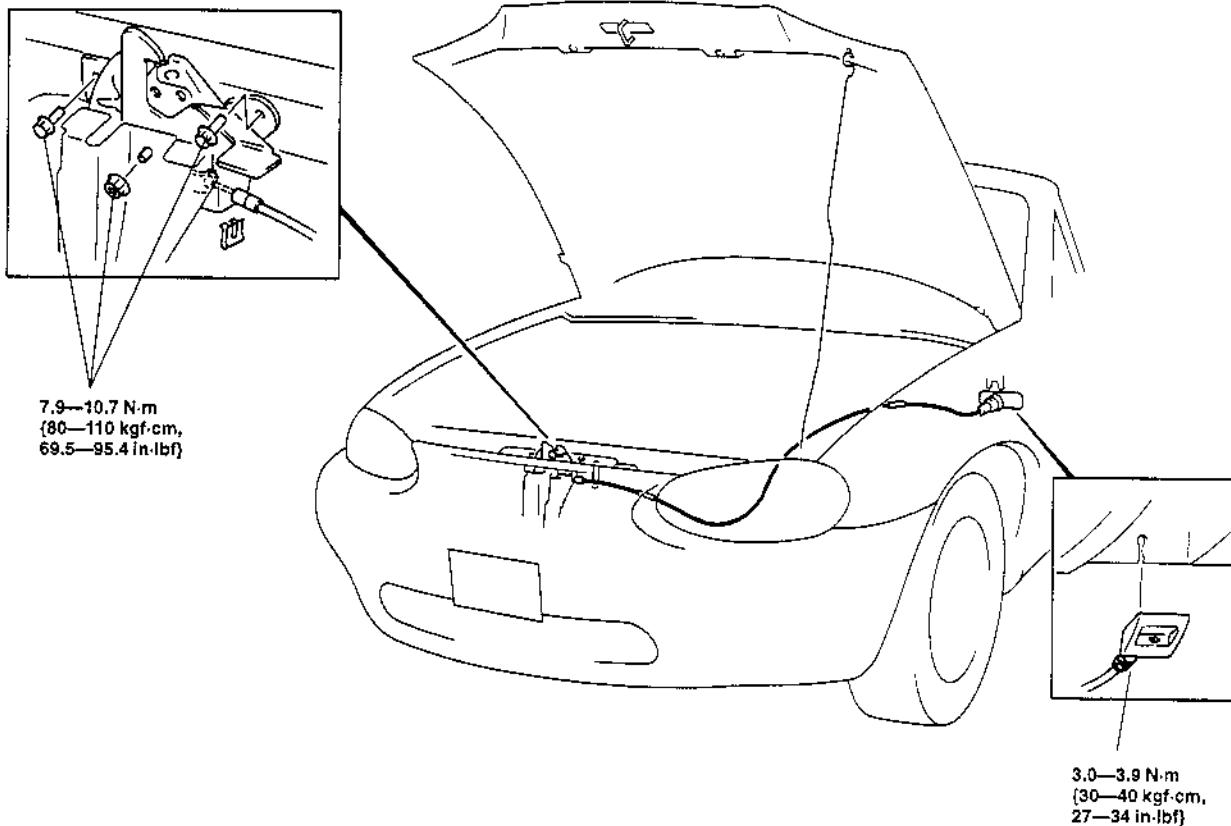
3	Fuel-filler lid opener
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SECURITY AND LOCKS

HOOD LOCK AND OPENER REMOVAL/INSTALLATION

X5U914W08

1. To remove the hood lock, remove the upper shroud panel.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.
4. Adjust the hood. (Refer to 09–10 HOOD ADJUSTMENT.)



X5U914WA8

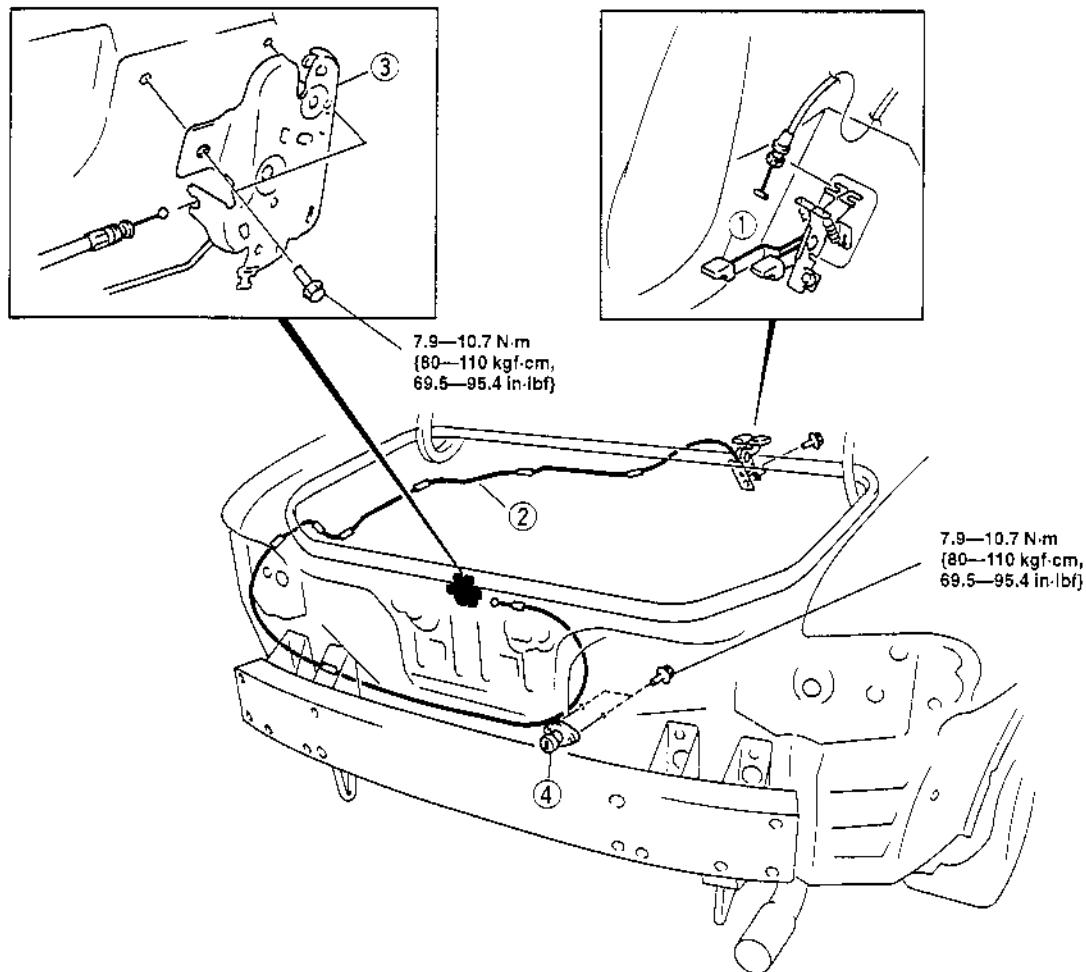
1 Hood lock

2 Hood release cable

TRUNK LID LOCK AND OPENER REMOVAL/INSTALLATION

X5U914W09

1. Disconnect the negative battery cable.
2. Remove the rear console. (Refer to 09–17 REAR CONSOLE REMOVAL/INSTALLATION.)
3. Remove the rear package trim. (Refer to 09–17 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
4. Remove the rear end mat.
5. Remove the driver's side trunk side trim.
6. Remove the trunk end trim.
7. To remove the trunk key cylinder, remove the rear bumper. (Refer to 09–10 REAR BUMPER REMOVAL/INSTALLATION.)
8. Remove in the order indicated in the table.
9. Install in the reverse order of removal.
10. Adjust the trunk lid. (Refer to 09–10 TRUNK LID ADJUSTMENT.)



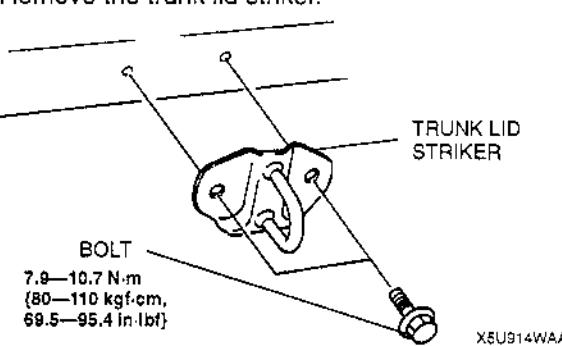
1	Trunk lid opener lever
2	Trunk lid opener cable

3	Trunk lid lock
4	Trunk key cylinder

TRUNK LID STRIKER REMOVAL/INSTALLATION

X5U914W10

1. Remove the bolts.
2. Remove the trunk lid striker.
3. Install in the reverse order of removal.
4. Adjust the trunk lid. (Refer to 09–10 TRUNK LID ADJUSTMENT.)



09-16 EXTERIOR TRIM

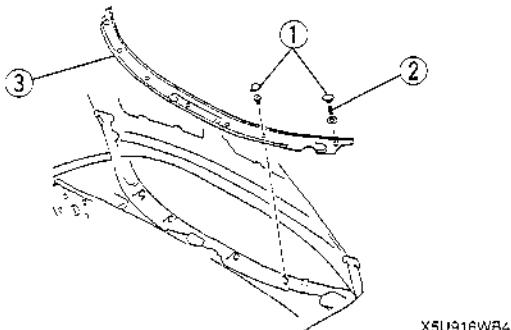
COWL GRILLE	
REMOVAL/INSTALLATION	09-16-1
BELTLINE MOLDING	
REMOVAL/INSTALLATION	09-16-1
FRONT BELTLINE MOLDING	
REMOVAL/INSTALLATION	09-16-2
REAR WINDOW MOLDING REMOVAL .	09-16-2
Detachable Hardtop	09-16-2
REAR WINDOW MOLDING	
INSTALLATION	09-16-2
Detachable Hardtop	09-16-2
WINDSHIELD MOLDING REMOVAL ..	09-16-4
WINDSHIELD MOLDING	
INSTALLATION	09-16-4
CONVERTIBLE TOP ADJUSTMENT ...	09-16-6
CONVERTIBLE TOP	
REMOVAL/INSTALLATION	09-16-7
Convertible Top Removal Note	09-16-7
Convertible Top Installation Note	09-16-8
CONVERTIBLE TOP	
DISASSEMBLY/ASSEMBLY	09-16-8
Retainer Disassembly Note	09-16-9
End Plate Disassembly Note	09-16-9
Top Fabric Disassembly Note	09-16-9
Cable Disassembly Note	09-16-9

Cable Assembly Note	09-16-10
Top Fabric Assembly Note	09-16-10
Set Plate Assembly Note	09-16-11
End Plate Assembly Note	09-16-11
Retainer Assembly Note	09-16-11
RETAINER ADJUSTMENT	09-16-12
TOP FABRIC REPAIR	09-16-12
Holes	09-16-12
Tears	09-16-13
TOP FABRIC	
REMOVAL/INSTALLATION	09-16-14
Weatherstrip Removal Note	09-16-14
Retainer Removal Note	09-16-14
Top Fabric Removal Note	09-16-15
Rain Rail Removal Note	09-16-15
Rain Rail Installation Note	09-16-15
Top Fabric Installation Note	09-16-16
DETACHABLE HARDTOP	
ADJUSTMENT	09-16-17
Top Lock	09-16-17
Side Lock	09-16-17
Rear Deck Lock	09-16-17
DETACHABLE HARDTOP	
DISASSEMBLY/ASSEMBLY	09-16-18

COWL GRILLE REMOVAL/INSTALLATION

1. Remove the windshield wiper arm and blade.
(Refer to 09-19 WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION.)
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

X5U916W07

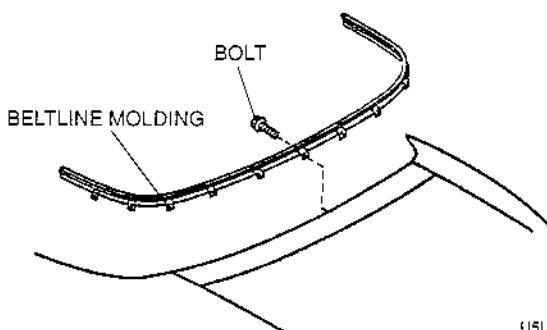


1	Cowl cap
2	Screw
3	Cowl grille

BELTLINE MOLDING REMOVAL/INSTALLATION

X5U916WC6

1. Remove the rear package trim.
2. Remove the set plate.
3. Remove the bolts.
4. Remove the beltline molding.



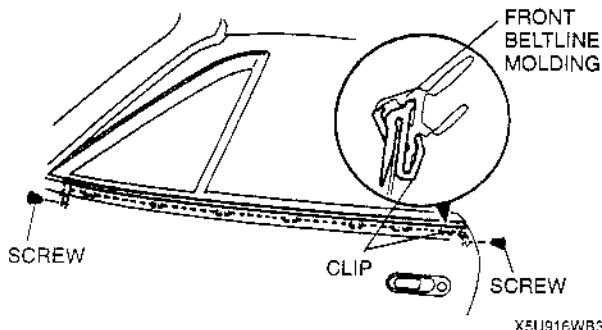
5. Install in the reverse order of removal.

EXTERIOR TRIM

FRONT BELTLINE MOLDING REMOVAL/INSTALLATION

X5U916W05

1. Remove the screws.
2. Pull the front beltline molding upward to disengage the clips from the body and remove it.

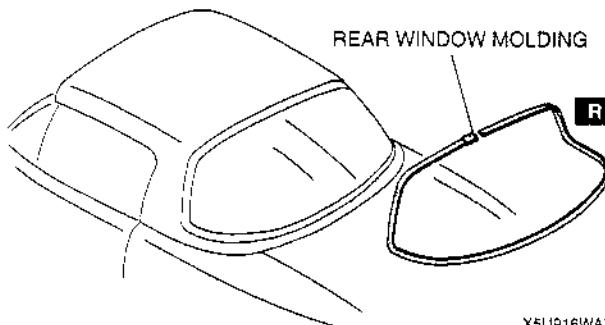


REAR WINDOW MOLDING REMOVAL

X5U916W03

Detachable Hardtop

- Pull the rear window molding to remove it.

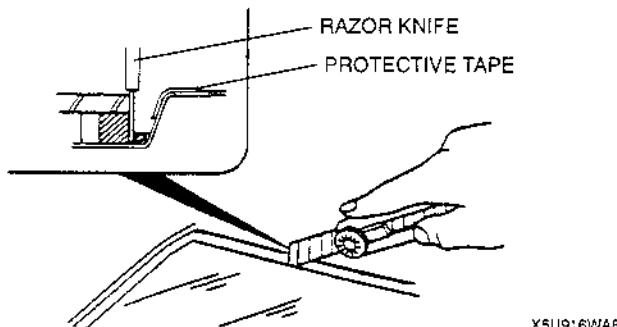


REAR WINDOW MOLDING INSTALLATION

X5U916W04

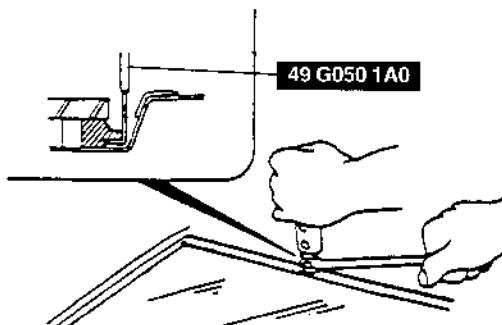
Detachable Hardtop

1. Apply protective tape along the edge of the body to protect it from damage.
2. Cut the sealant by using a razor knife as shown.



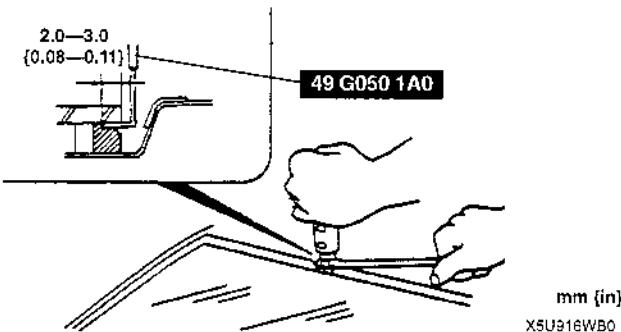
3. Insert the blade of the SST into the sealant, and pull on the bar to cut the sealant near the body as shown.

3. Install in the reverse order of removal.

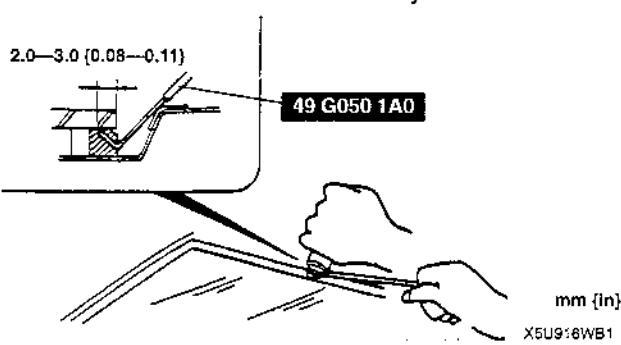


4. Insert the blade of the SST into the sealant, and pull on the bar to cut the sealant near the glass as shown.

EXTERIOR TRIM



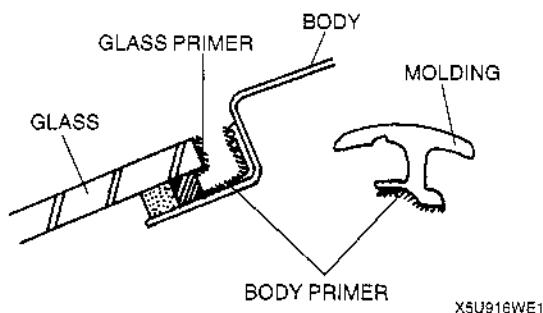
5. Remove as much sealant as possible from between the body and the glass.
6. Carefully clean around the edge of the glass and the adhesion surface of the body.



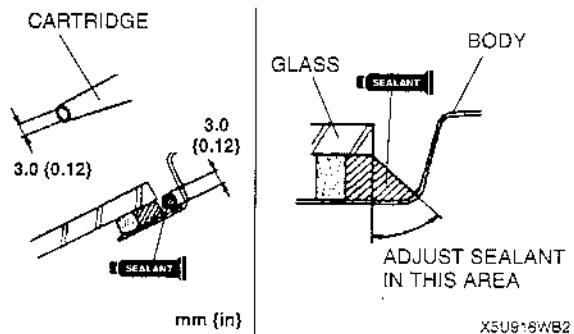
Caution

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

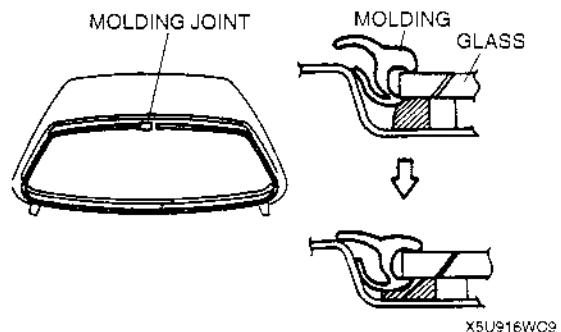
7. Apply primer onto the bonding area of the new rear window molding by using a brush. Allow the primer to dry for approximately 30 minutes.



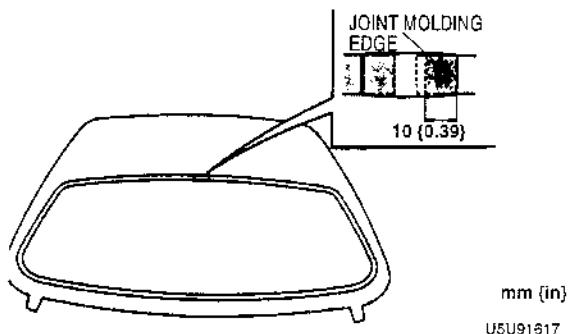
8. Apply a 3.0 mm {0.12 in} bead of sealant between the glass and the body.
9. Reshape the sealant as shown if necessary.



10. Install the rear window molding with the molding joint at the top.



11. If the molding is too long, cut the excess molding 10 mm {0.39 in} inside the molding joint edge.



Hardening time of sealant

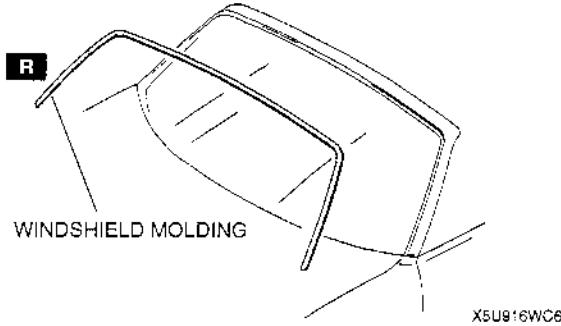
Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min	Approx. 2 h

12. Check for water leaks. If a leak is found, wipe the water off well and repeat the installation.

WINDSHIELD MOLDING REMOVAL

X5U916W01

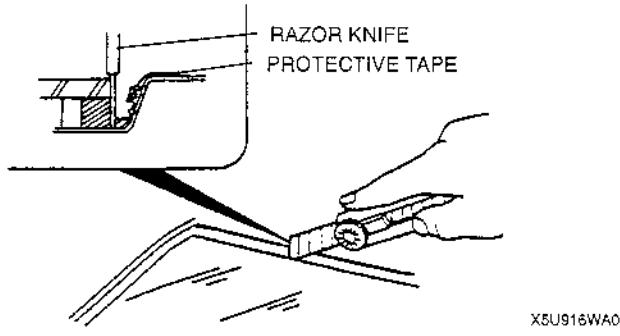
- Pull the windshield molding to remove it.



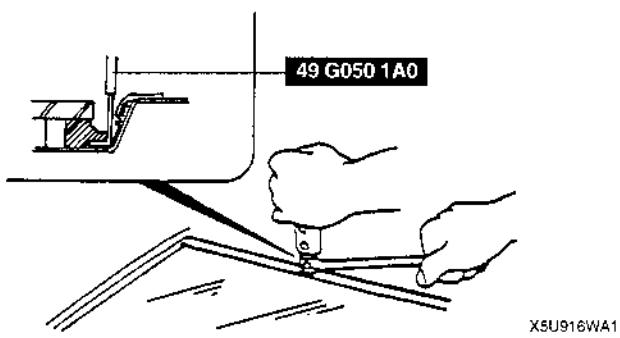
WINDSHIELD MOLDING INSTALLATION

X5U916W02

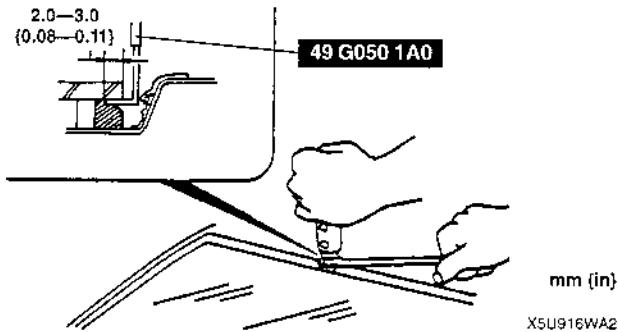
- Apply protective tape along the edge of the body to protect it from damage.
- Cut the sealant by using a razor knife as shown.



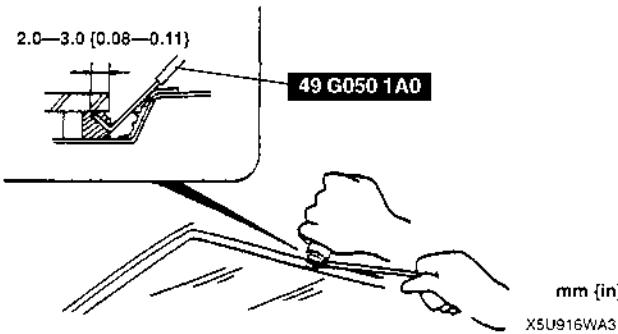
- Insert the blade of the SST into the sealant, and pull on the bar to cut the sealant near the body as shown.



- Insert the blade of the SST into the sealant, and pull on the bar to cut the sealant near the glass as shown.



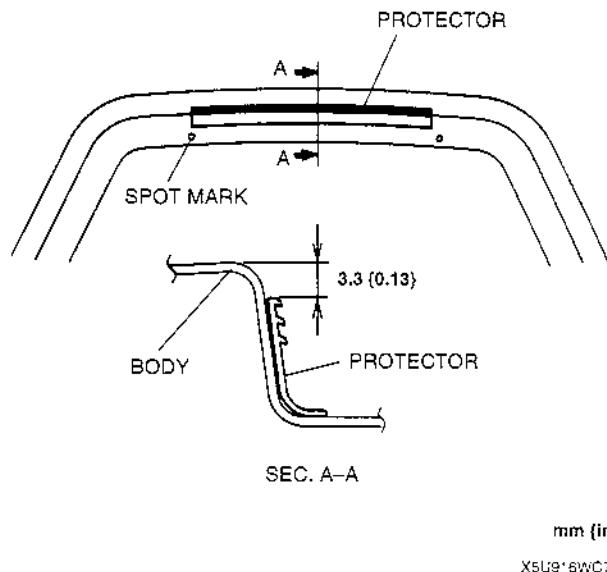
- Remove as much sealant as possible from between the body and the glass.
- Carefully clean around the edge of the glass and the adhesion surface of the body.



- Align the edge of the protector to the spot mark.
- Securely bond the protector to the body as shown.

EXTERIOR TRIM

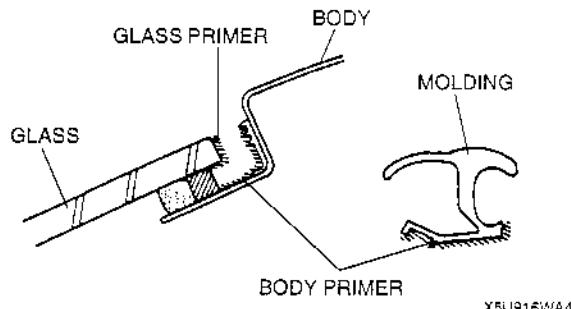
12. Install the windshield molding before the sealant has hardened.



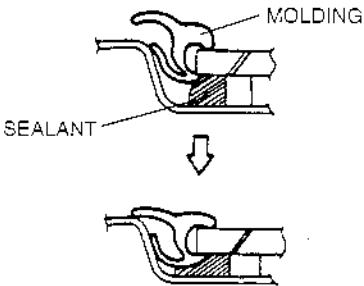
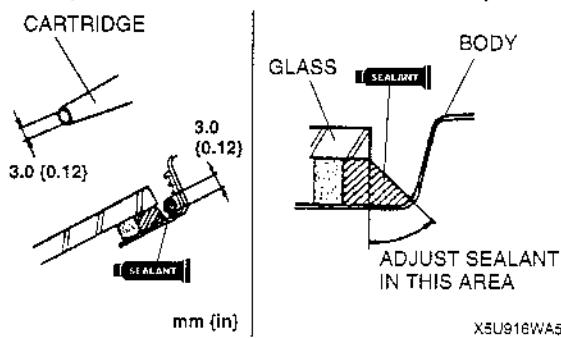
Caution

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

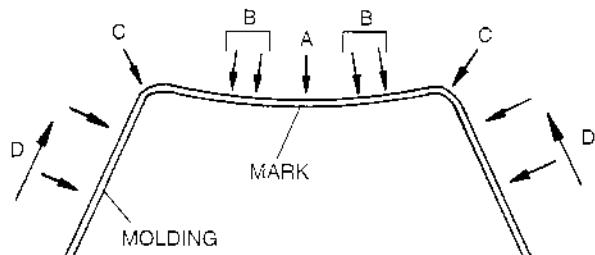
9. Apply primer onto the bonding area of the glass, body, and new windshield molding by using a brush. Use only glass primer on the glass and body primer on the body and molding. Allow the primer to dry for approximately 30 minutes.



10. Apply a 3.0 mm {0.12 in} bead of sealant between the glass and the body.
11. Reshape the sealant as shown if necessary.



13. Align the center mark in the molding with the glass mark (A).
14. Install the upper portions of the molding into the body (B).
15. Push the corners of the molding onto the body (C).
16. Push the sides of the molding onto the body, beginning from the bottom (D).



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

17. Check for water leaks. If a leak is found, wipe the water off well and repeat the installation.

EXTERIOR TRIM

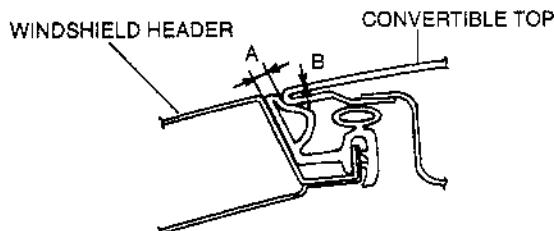
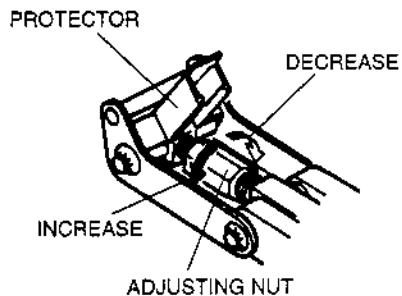
CONVERTIBLE TOP ADJUSTMENT

X5U916W11

1. Lift the protector away from the top lock adjusting nut.
2. Turn the adjusting nut clockwise to decrease clearance A and height B; turn the nut counterclockwise to increase them.
3. Secure the adjusting nut with the protector.

Clearance

A: 3—7 mm {0.12—0.27 in}
B: -2—2 mm {-0.08—0.07 in}



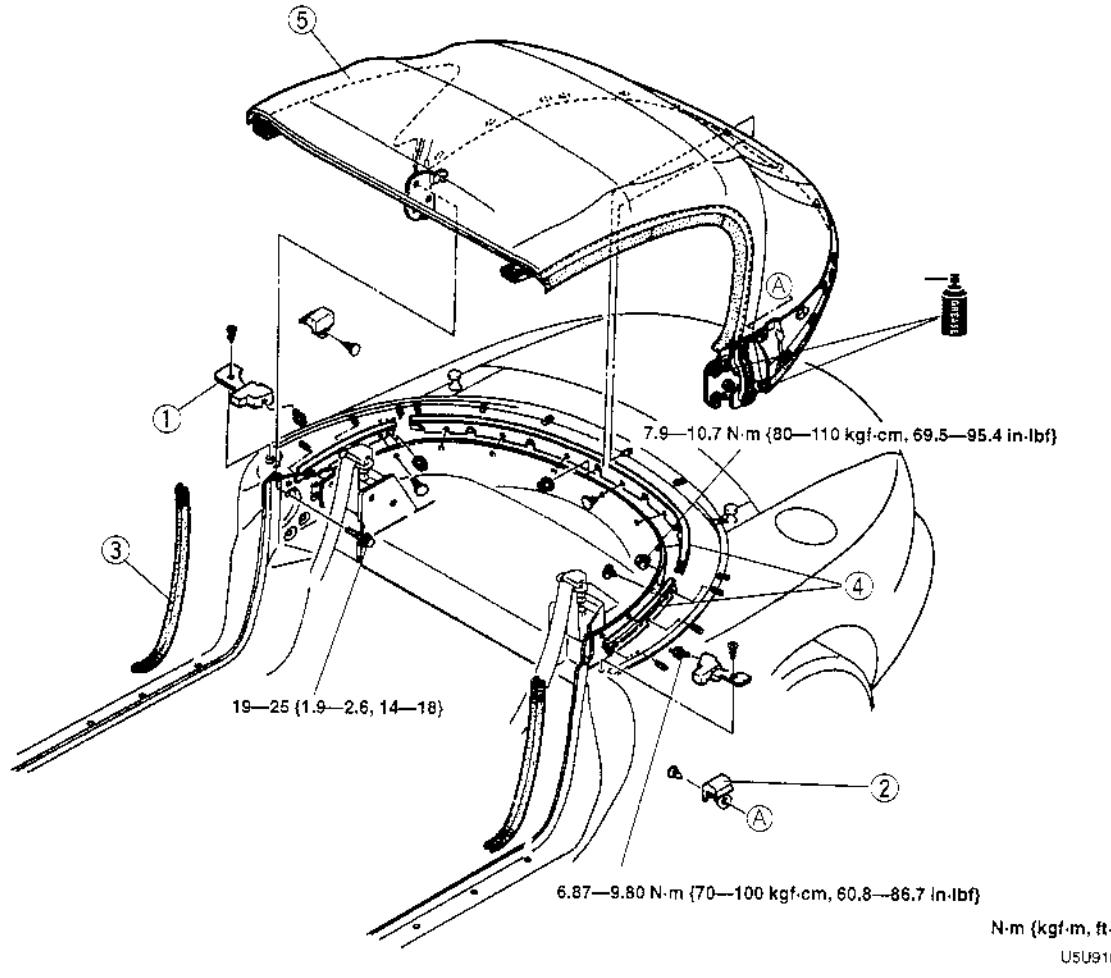
X5U916WC1

EXTERIOR TRIM

CONVERTIBLE TOP REMOVAL/INSTALLATION

X5U916WCB

1. Cover both sides of the rear window glass with thick cloth to protect the window.
2. Disconnect the negative battery cable.
3. Remove the scuff plate.
4. Remove the quarter trim.
5. Remove the rear package trim.
6. Remove in the order indicated in the table.
7. Disconnect the rear window defroster power-cut switch.
8. Install in the reverse order of removal.



N·m (kgf·m, ft-lbf)
U5U91620

1	Beltline cover
2	Beltline protector
3	Seaming welt

4	Set plate
5	Convertible top ☞ Removal Note ☞ Installation Note

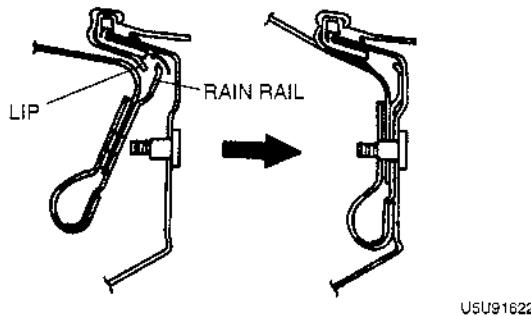
Convertible Top Removal Note

1. Unlock the top lock.
2. Lower the convertible top fully.

EXTERIOR TRIM

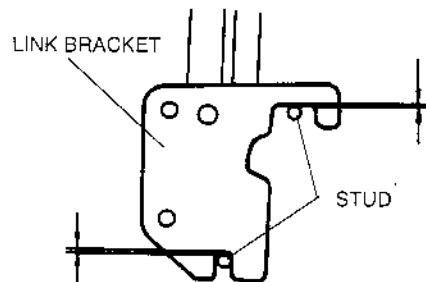
Convertible Top Installation Note

1. Insert the rain rail into the beltline molding lip, and install it over the studs.



Tightening torque

19—25 N·m {1.9—2.6 kgf·m, 14—18 ft·lbf}



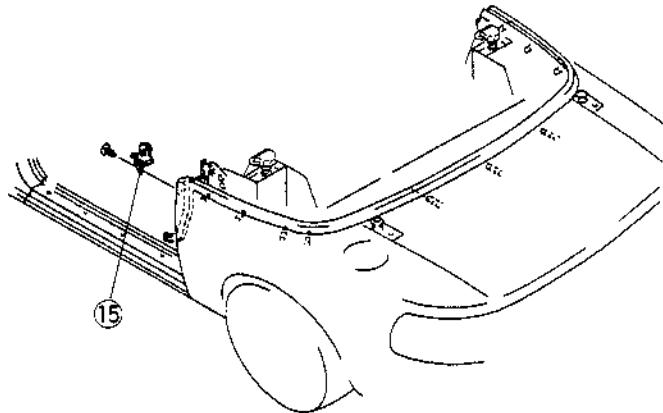
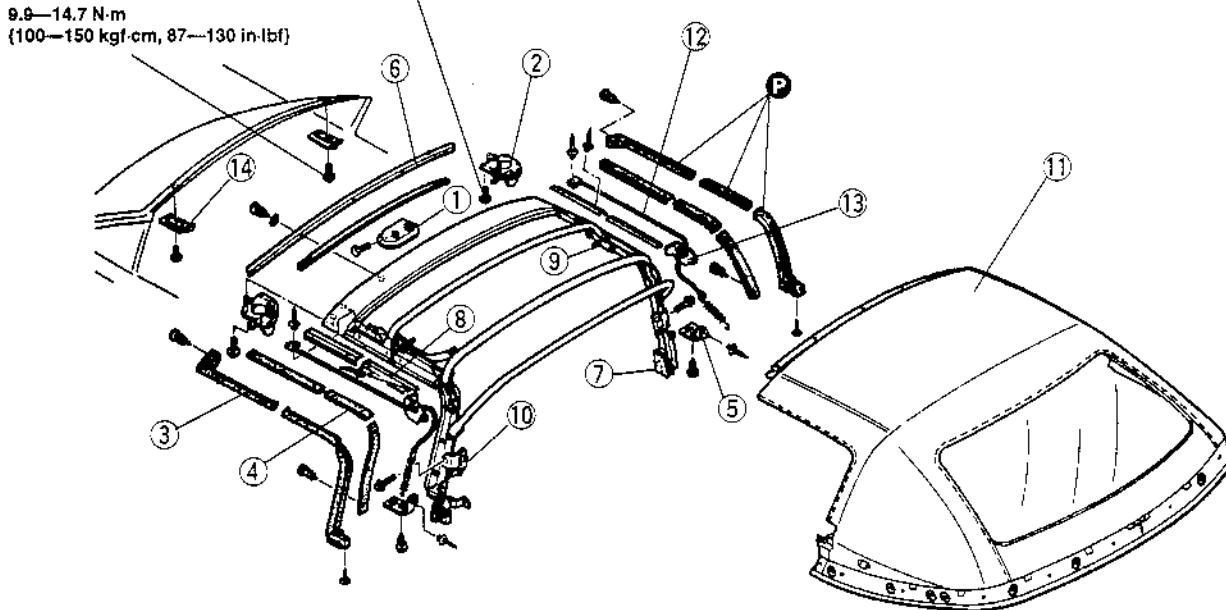
2. Align and install the link bracket over the studs with no clearance between the studs and the bracket.
3. Tighten the installation bolts.

CONVERTIBLE TOP DISASSEMBLY/ASSEMBLY

XSU916W09

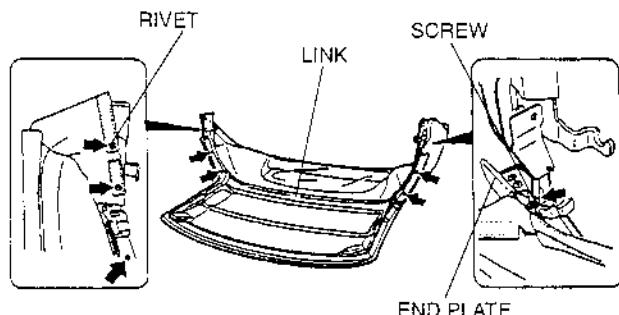
1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.

4.3—6.1 N·m (43—63 kgf·cm, 38—54 in·lbf)



EXTERIOR TRIM

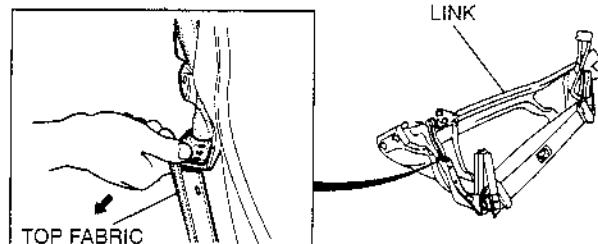
1	Top handle
2	Top lock
3	Weatherstrip
4	Retainer □ Disassembly Note □ Assembly Note
5	End plate □ Disassembly Note □ Assembly Note
6	Set plate □ Assembly Note
7	Link
8	Protector
9	Link stopper
10	Open stopper
11	Top fabric □ Disassembly Note □ Assembly Note
12	Cable □ Disassembly Note □ Assembly Note
13	Cable guide
14	Striker
15	Cab-side weatherstrip



X5U916WD1

Top Fabric Disassembly Note

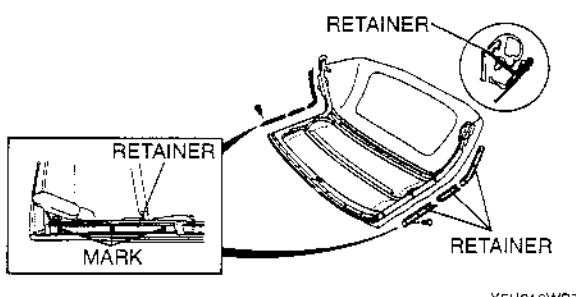
1. Fold the convertible top.
2. Remove the top fabric from the link.



USU91627

Retainer Disassembly Note

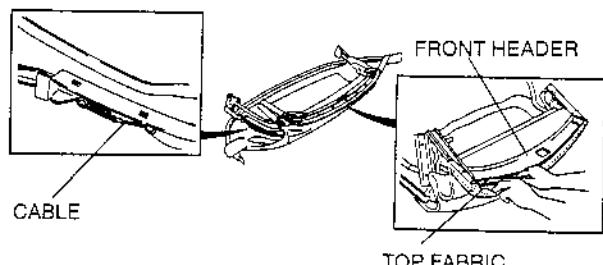
1. Set the convertible top upside down on a workbench covered with clean, thick cloth.
2. Mark around the retainer installation screws with paint before removing them.



X5U916WB7

Cable Disassembly Note

1. Peel back the top fabric from the front header.
2. Remove the screws and disconnect the cables from the rear of the link.



USU91628

End Plate Disassembly Note

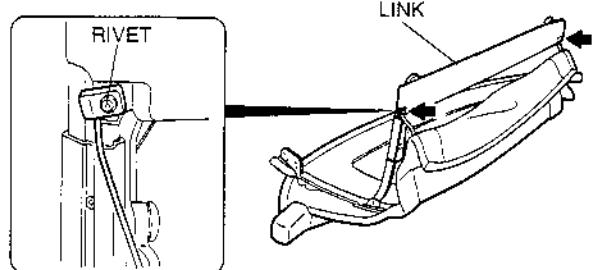
1. Remove the rivets from the link by using a drill.

Drill size

$\phi 4.0 \text{ mm } (\phi 0.16 \text{ in})$

2. Remove the screws and remove the end plates from the link.

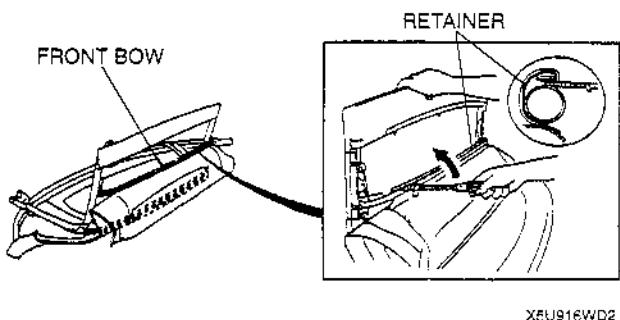
Drill size
 $\phi 4.0 \text{ mm } (\phi 0.16 \text{ in})$



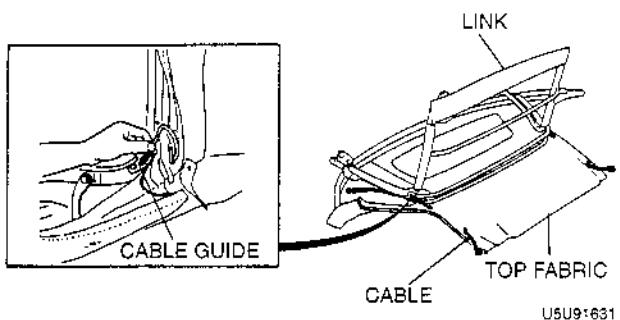
USU91629

EXTERIOR TRIM

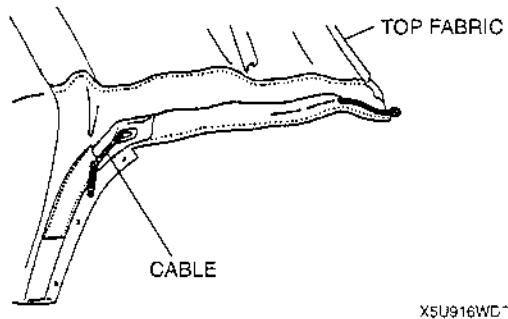
5. Pry back the bow retainers by using a tape-wrapped flathead screwdriver.
6. Remove the top fabric from the bow retainer.



7. Remove the cables from the cable guide.
8. Remove the top fabric and cables from the link.

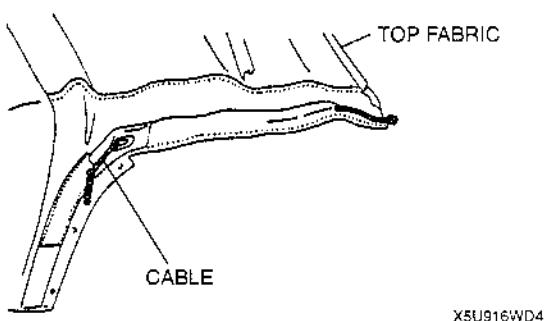


9. Remove the cables from the top fabric.



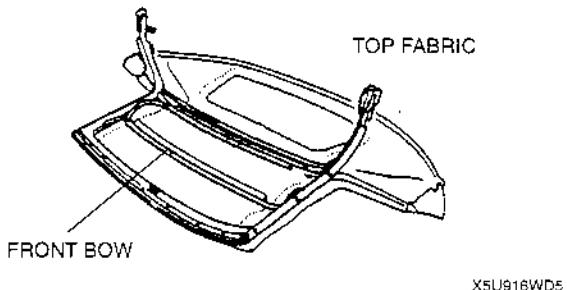
Cable Assembly Note

- Thread the cable into the top fabric.

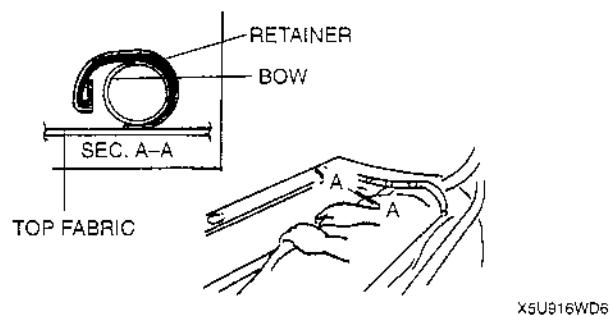


Top Fabric Assembly Note

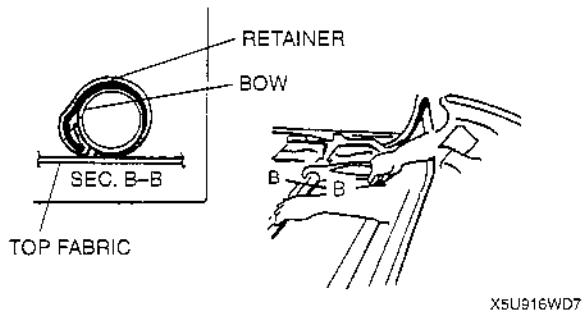
1. Cover the workbench with thick cloth to prevent damaging the top fabric and rear window.
2. Place the link onto the top fabric.
3. Install the top fabric to the front bow.
4. Roll the top fabric over the bow retainer.



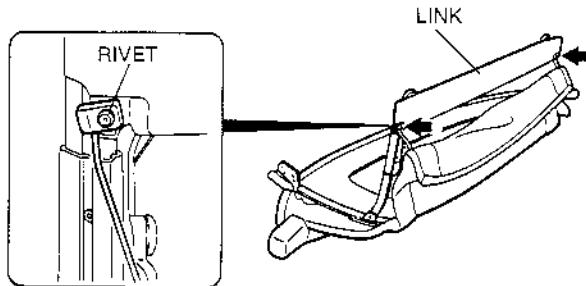
5. Hang the end of the top fabric on the bow retainer.



6. Clamp the top fabric to the bow by using water pump pliers which have been wrapped in tape. Pull the top fabric by hand to verify that it is held securely.



7. Set the convertible top upright.
8. Rivet the cables to the front of the link.

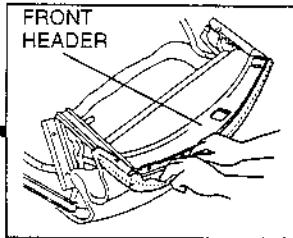
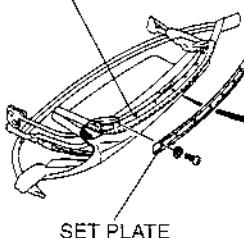


EXTERIOR TRIM

Set Plate Assembly Note

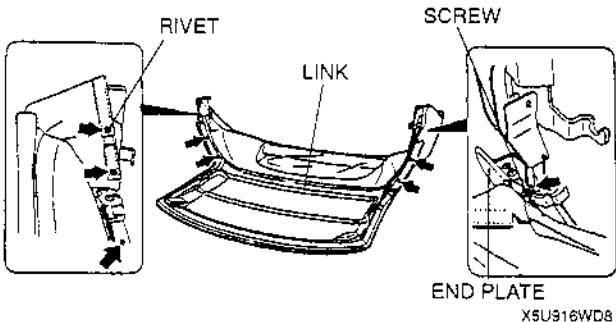
1. Turn the convertible top over and fold it.
2. Install the front of the top fabric to the front header.
3. Align the set plate and top fabric with the set plate installation holes.
4. Install the set plate to the link.

SET PLATE INSTALLATION HOLE



U5U91639

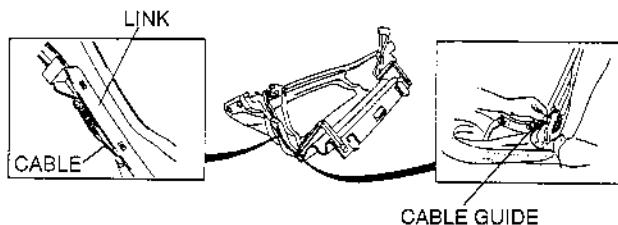
6. Unfold the convertible top.
7. Install the end plates to the link.
8. Rivet the top fabric to the link.



X5U916WD8

End Plate Assembly Note

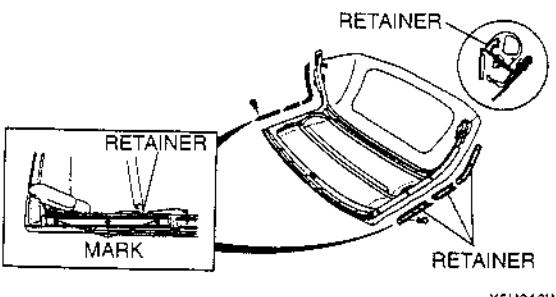
1. Unfold the convertible top half-way.
2. Pass the cables through the cable guides.
3. Install the cables to the rear of the link.



U5U91640

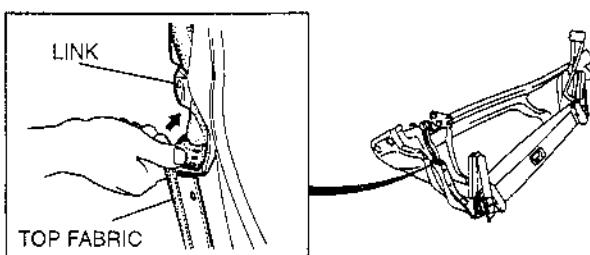
Retainer Assembly Note

- Install the retainers to the link, aligning the retainer marks with the retainer installation screws.



X5U916WB9

4. Fold the convertible top.
5. Install the top fabric to the link.



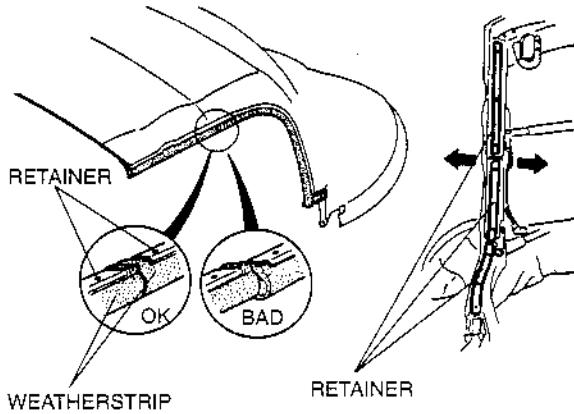
U5U91641

EXTERIOR TRIM

RETAINER ADJUSTMENT

X5U916W12

1. Remove the weatherstrip.
2. Loosen the retainer installation screws and adjust the retainer as necessary.
3. Tighten the screws and reinstall the weatherstrip.



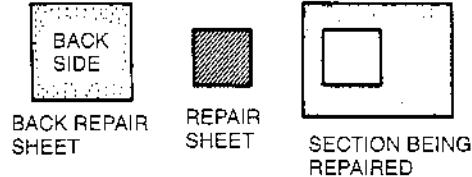
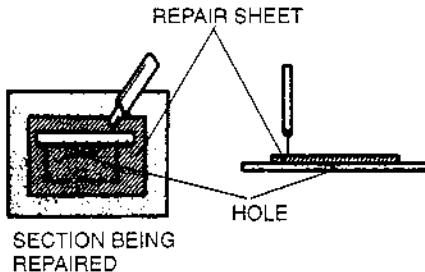
U5U916S3

TOP FABRIC REPAIR

X5U916W13

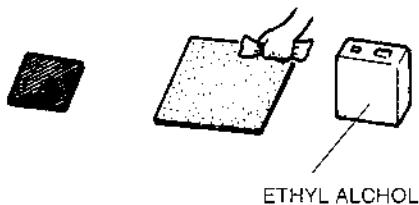
Holes

1. Place the repair sheet (NC10 R1 211) over the damaged section. Cut both the top fabric and the repair sheet by using a razor knife and a straightedge.



U5U916S5

4. Degrease the repair sheets by using ethyl alcohol.

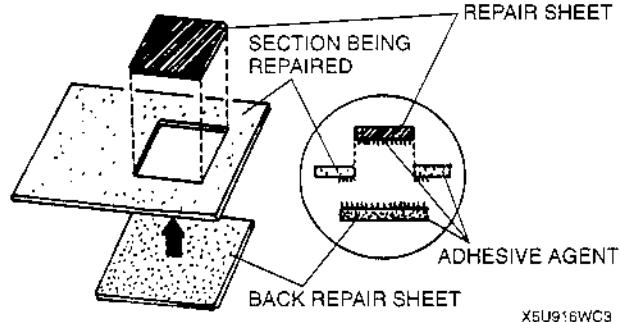


X5U916WC2

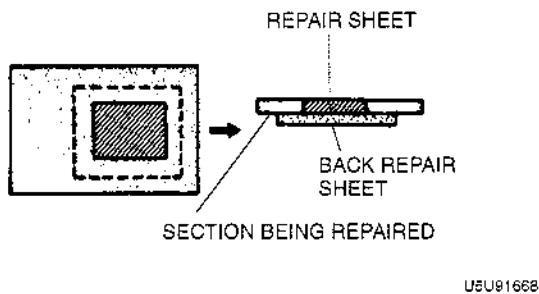
2. Cut another piece of repair sheet larger than the first for use as a back repair sheet.
3. Trim the top fabric and the repair sheets by using scissors.

EXTERIOR TRIM

5. Apply a generous amount of adhesive agent (K180 W0 313) or equivalent to the section being repaired, the repair sheet, and the back repair sheet. Let stand for a few minutes.
6. Insert the repair sheet squarely into the section of the top fabric being repaired. Then install the back repair sheet from the underside of the top.

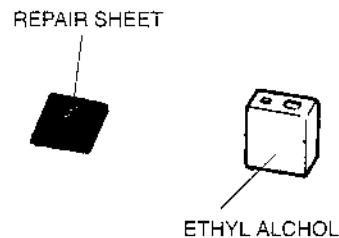


7. Press the repair sheets firmly together.
8. Let the top fabric stand until the adhesive agent is fully dry.



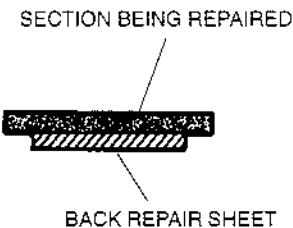
Tears

1. Cut a piece of repair sheet (NC10 R1 211) larger than the damaged section for use as a back repair sheet.
2. Degrease the repair sheet by using ethyl alcohol.



X5U916WC4

3. Apply a generous amount of adhesive agent (K180 W0 313) or equivalent to the section being repaired and the back repair sheet. Let stand for a few minutes.
4. Install the back repair sheet from the underside of the top.
5. Press the repair sections firmly together.
6. Let the top fabric stand until the adhesive agent is fully dry.

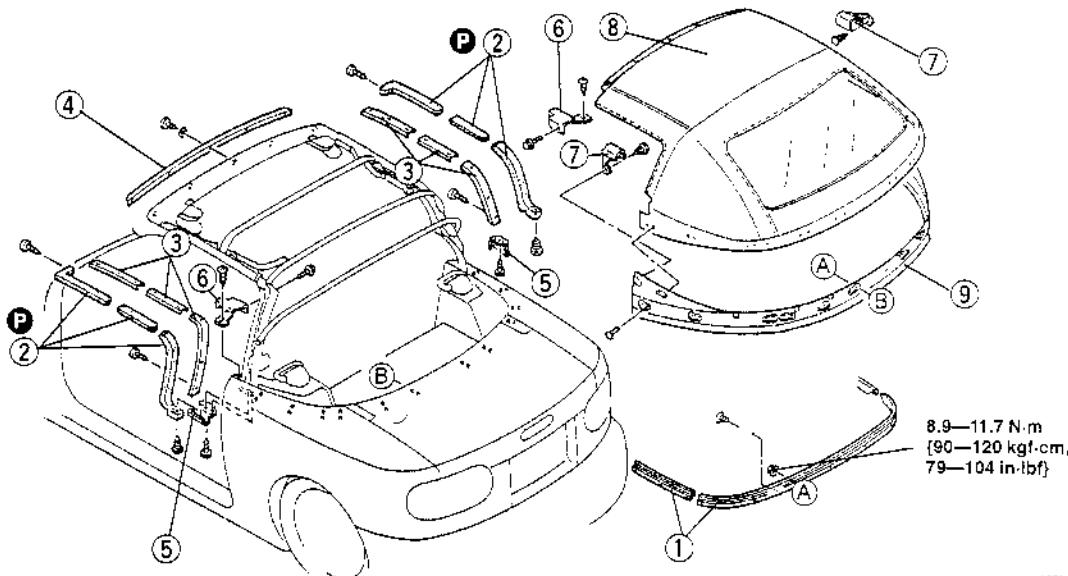


EXTERIOR TRIM

TOP FABRIC REMOVAL/INSTALLATION

1. Cover over the rear deck area by using a protective rag.
2. Remove the rear package trim.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

X5U916W10



X5U916W00

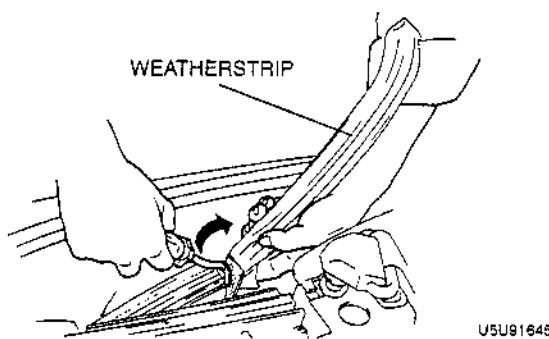
1	Set plate
2	Weatherstrip <input type="checkbox"/> Removal Note
3	Retainer <input type="checkbox"/> Removal Note
4	Set plate
5	End plate

6	Beltline cover
7	Beltline protector
8	Top fabric <input type="checkbox"/> Removal Note <input type="checkbox"/> Installation Note
9	Rain rail <input type="checkbox"/> Removal Note <input type="checkbox"/> Installation Note

Weatherstrip Removal Note

Vertical section

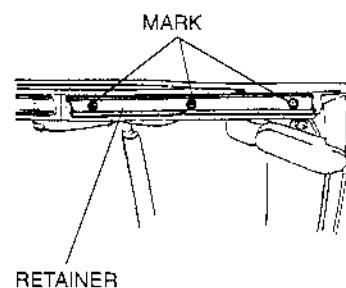
1. Lower the convertible top fully.
2. Remove the fastener as shown in the figure by using a fastener remover.



U5U91645

Retainer Removal Note

- Mark around the retainer installation screws with paint before removing them.



U5U91646

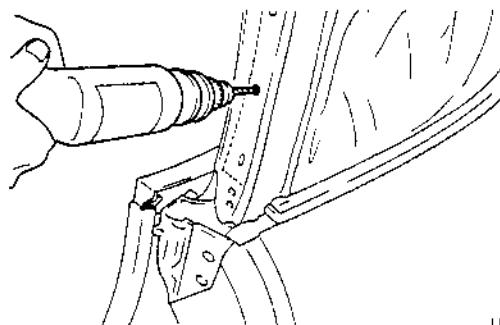
EXTERIOR TRIM

Top Fabric Removal Note

1. Remove the rivets from the link with a drill.

Drill size

$\phi 4.0 \text{ mm } \{\phi 0.16 \text{ in}\}$

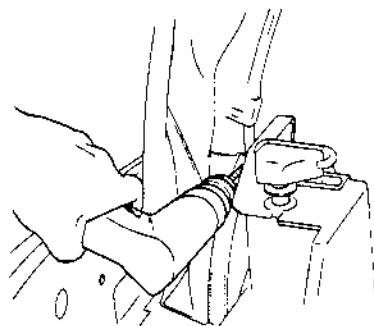


U5U91647

2. Peel the top fabric end.
3. Remove the rivets from the link by using a drill.

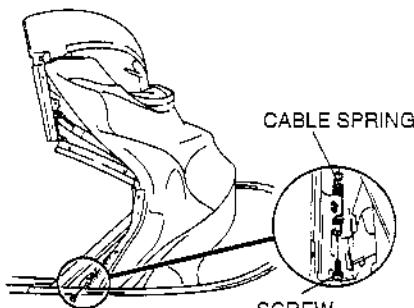
Drill size

$\phi 4.0 \text{ mm } \{\phi 0.16 \text{ in}\}$



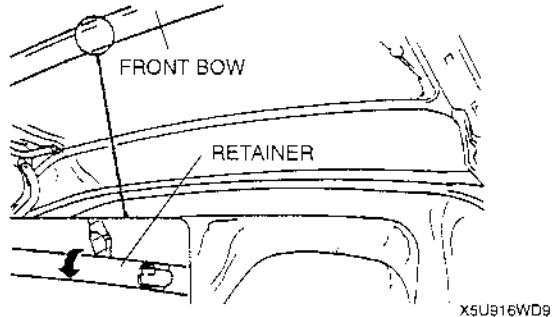
U5U91648

4. Lower the convertible top to release the cable spring tension, and unhook the spring.
5. Remove the cable from the top fabric.



U5U91649

6. Pry back the front bow retainer by using a tape-wrapped flathead screwdriver.
7. Remove the top fabric from the bow retainer.



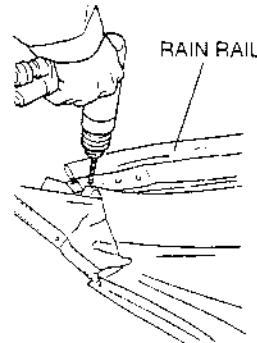
X5U916WD9

Rain Rail Removal Note

- Remove the rivets from the top fabric by using a drill.

Drill size

$\phi 4.0 \text{ mm } \{\phi 0.16 \text{ in}\}$



U5U91651

Rain Rail Installation Note

If the rivets will not be used

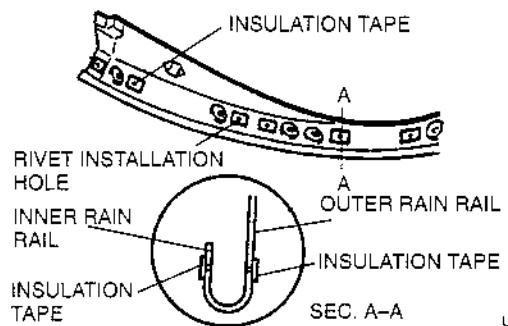
1. Degrease the rain rail by using white gasoline.
2. Install insulation tape to the rivet installation holes of the rain rail.

Insulation tape

Width: 20 mm {0.8 in}

Height: 15 mm {0.6 in}

Thickness: 3 mm {0.12 in}

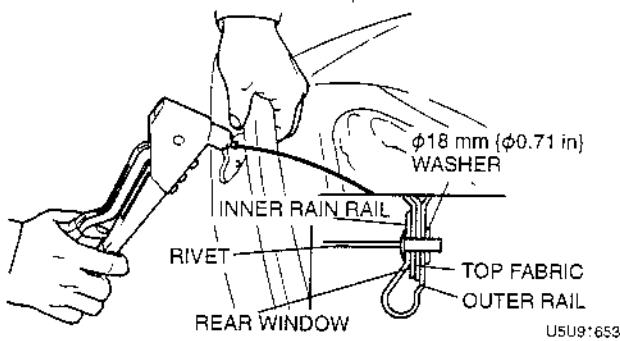


U5U91652

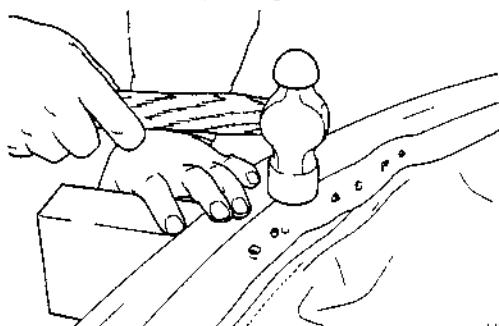
EXTERIOR TRIM

If the rivets will be used

- Rivet the rain rail to the top fabric.

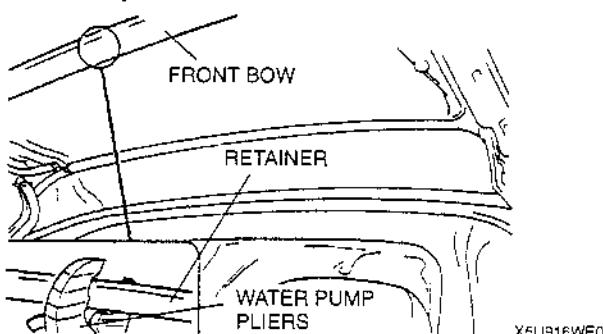


- Flatten the stem by using a hammer.

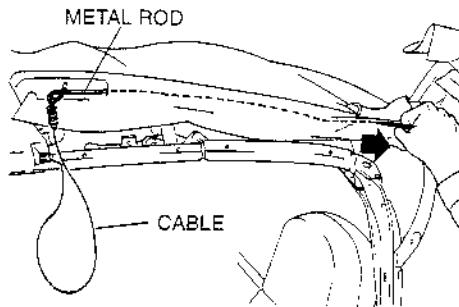


Top Fabric Installation Note

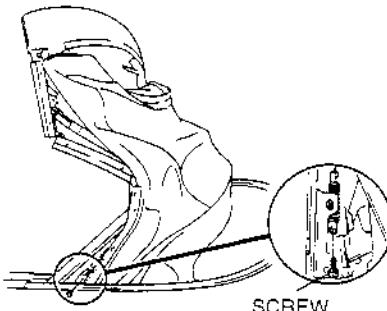
- Place the top fabric onto the link.
- Install the top fabric to the front bow, beginning from the rear bow.
- Roll the top fabric over the bow retainer.
- Hang the end of the top fabric on the bow retainer.
- Clamp the top fabric to the bow by using water pump pliers which have been wrapped in tape.
- Pull the top fabric by hand to verify that it is held securely.



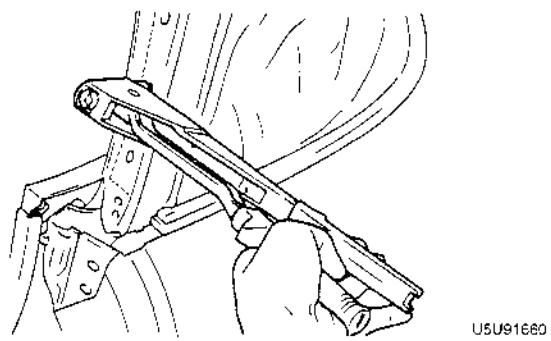
- Inset a metal rod into the fabric as shown, tie the cable around the rod, and pull the cable through the fabric.



- Raise the convertible top as shown in the figure.
- Install the screw.



- Rivet the top fabric upper side to the link.

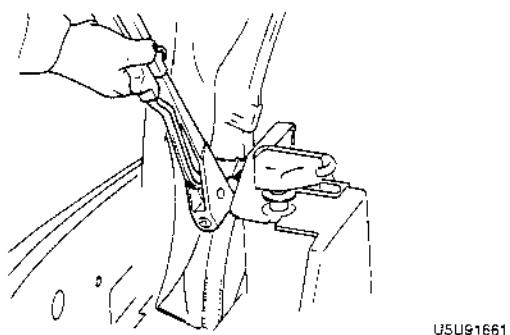


- Peel the top fabric end.

- Rivet the top fabric lower side to the link.

Note

- If the lower side rivet is difficult to install to the link, install the top fabric by using a tinnerman clip and a screw.



DETACHABLE HARDTOP ADJUSTMENT

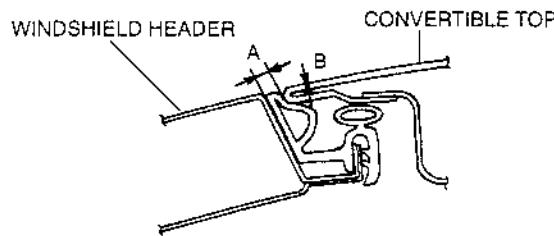
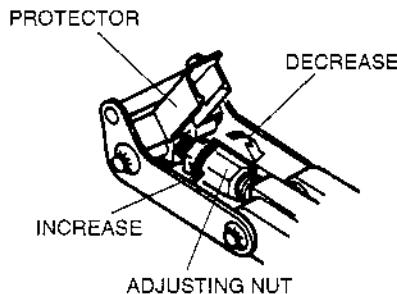
X5U916W15

Top Lock

1. Lift the protector away from the top lock adjusting nut.
2. Turn the adjusting nut clockwise to decrease clearance A and height B; turn the nut counterclockwise to increase them.

Clearance

A: 3—7 mm {0.12—0.27 in}
 B: -2—2 mm {-0.08—0.07 in}

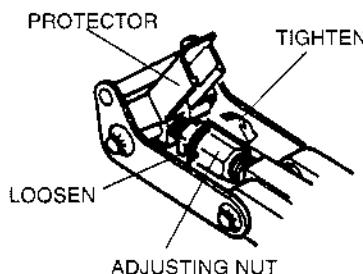


X5U916W85

3. Secure the adjusting nut with the protector.

Side Lock

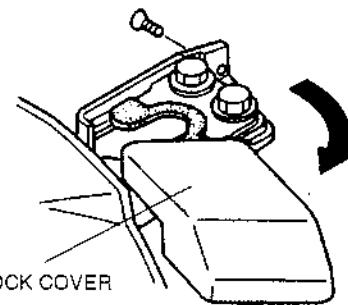
1. Lift the protector away from the side lock adjusting nut.
2. Turn the adjusting nut clockwise to tighten the striker and side lock engagement; turn the nut counterclockwise to loosen the engagement.
3. Secure the adjusting nut by using the protector.



U5U91673

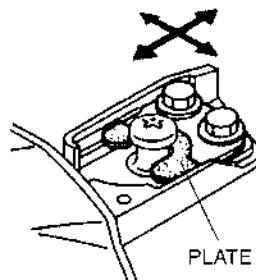
Rear Deck Lock

1. Remove the screw and open the lock cover.



U5U91674

2. Loosen the plate installation bolts.
3. Install the detachable hardtop to the body.
4. Move the plate right, left, fore, or aft until it is tight.



U5U91675

5. Tighten the plate installation bolts.

Tightening torque

18—26 N·m {1.8—2.7 kgf·m, 14—19 ft·lbf}

6. Close the lock cover and install the screw.

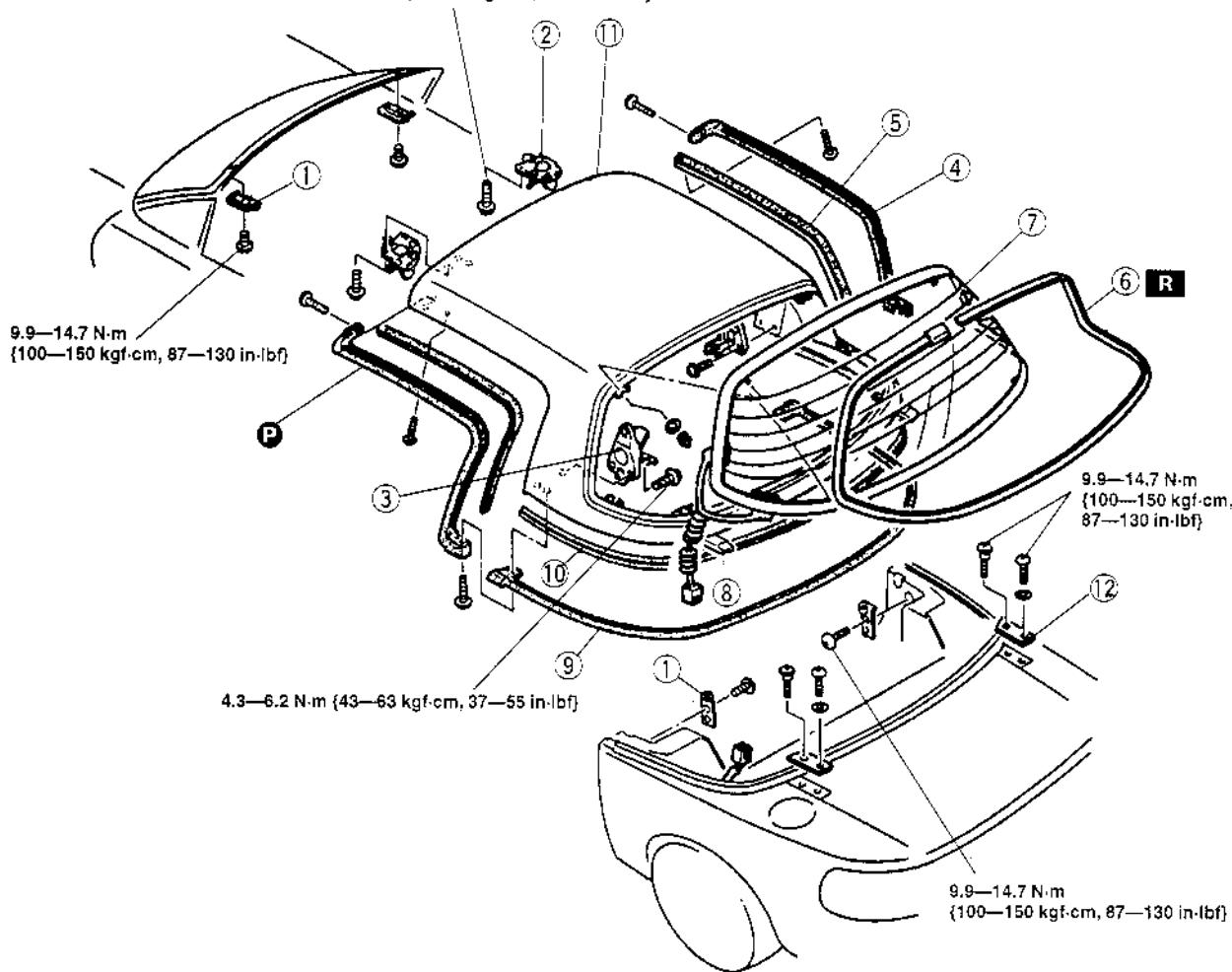
EXTERIOR TRIM

DETACHABLE HARDTOP DISASSEMBLY/ASSEMBLY

X5U916W14

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.

4.3—6.2 N·m (43—63 kgf·cm, 37—55 in·lbf)



X5U916WC5

1	Striker
2	Top lock
3	Side lock
4	Weatherstrip
5	Retainer
6	Rear window molding ☞ 09-16 REAR WINDOW MOLDING REMOVAL ☞ 09-16 REAR WINDOW MOLDING INSTALLATION

7	Rear window glass ☞ 09-12 REAR WINDOW GLASS REMOVAL ☞ 09-12 REAR WINDOW GLASS INSTALLATION
8	Rear deck lock
9	Rear weatherstrip
10	Edge protector
11	Detachable hardtop
12	Rear deck plate

09-17 INTERIOR TRIM

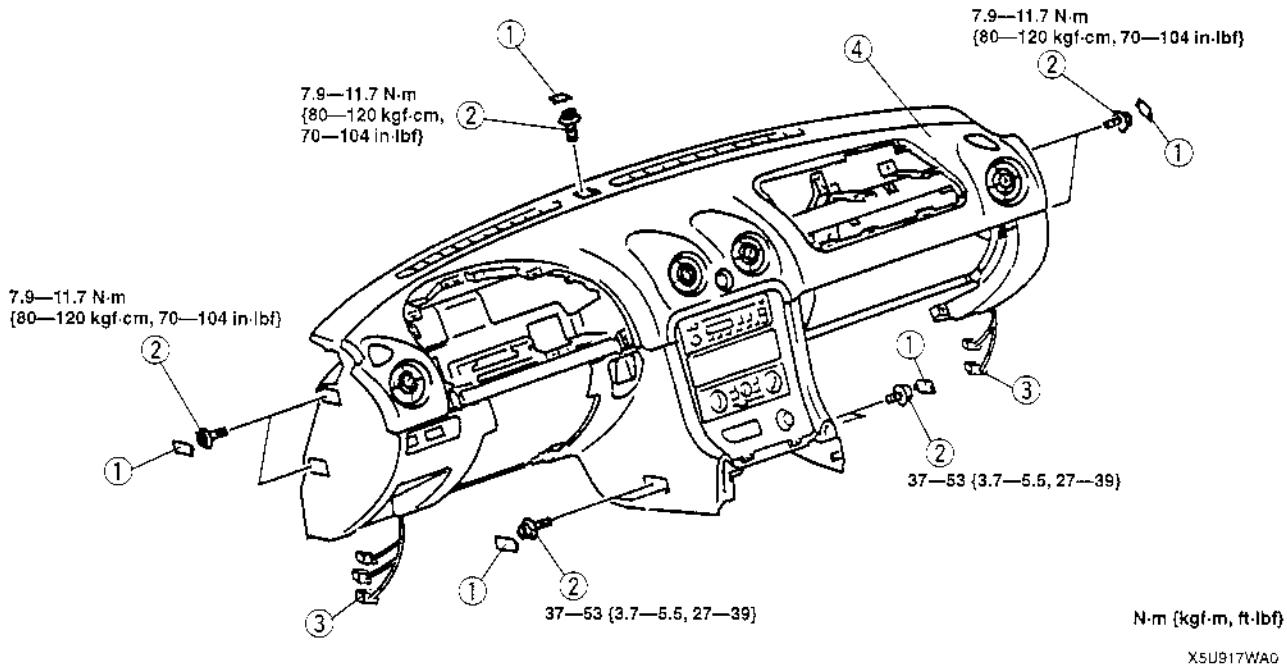
DASHBOARD	A-PILLAR TRIM
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
DASHBOARD	FRONT HEADER TRIM
DISASSEMBLY/ASSEMBLY	REMOVAL/INSTALLATION
CENTER PANEL	QUARTER TRIM
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
COLUMN COVER	REAR PACKAGE TRIM
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
CONSOLE	SCUFF PLATE
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
CONSOLE	FRONT SIDE TRIM
DISASSEMBLY/ASSEMBLY	REMOVAL/INSTALLATION
GLOVE COMPARTMENT	TRUNK END TRIM
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
LOWER PANEL	TRUNK SIDE TRIM
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
METER HOOD	FLOOR COVERING
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION
DOOR TRIM	REAR END MAT
REMOVAL/INSTALLATION	REMOVAL/INSTALLATION

INTERIOR TRIM

DASHBOARD REMOVAL/INSTALLATION

X5U917W01

1. Disconnect the negative battery cable.
2. Remove the driver-side air bag module. (Refer to 08-10 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
3. Remove the passenger-side air bag module. (Refer to 08-10 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
4. Remove the A-pillar trim. (Refer to 09-17 A-PILLAR TRIM REMOVAL/INSTALLATION.)
5. Remove the console. (Refer to 09-17 CONSOLE REMOVAL/INSTALLATION.)
6. Remove the lower panel.
7. Remove the instrument cluster. (Refer to 09-22 INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
8. Remove the glove compartment. (Refer to 09-17 GLOVE COMPARTMENT REMOVAL/INSTALLATION.)
9. Remove the hood release lever.
10. Remove the control wire of the heater unit and blower unit. (Refer to 07-40 HEATER CONTROL UNIT REMOVAL.) (Refer to 07-40 HEATER CONTROL UNIT INSTALLATION.)
11. Remove the installation bolts and nuts fixing the steering shaft to the dashboard, and pull down the steering shaft.
12. Remove in the order indicated in the table.
13. Install in the reverse order of removal.



1	Cover
2	Bolt

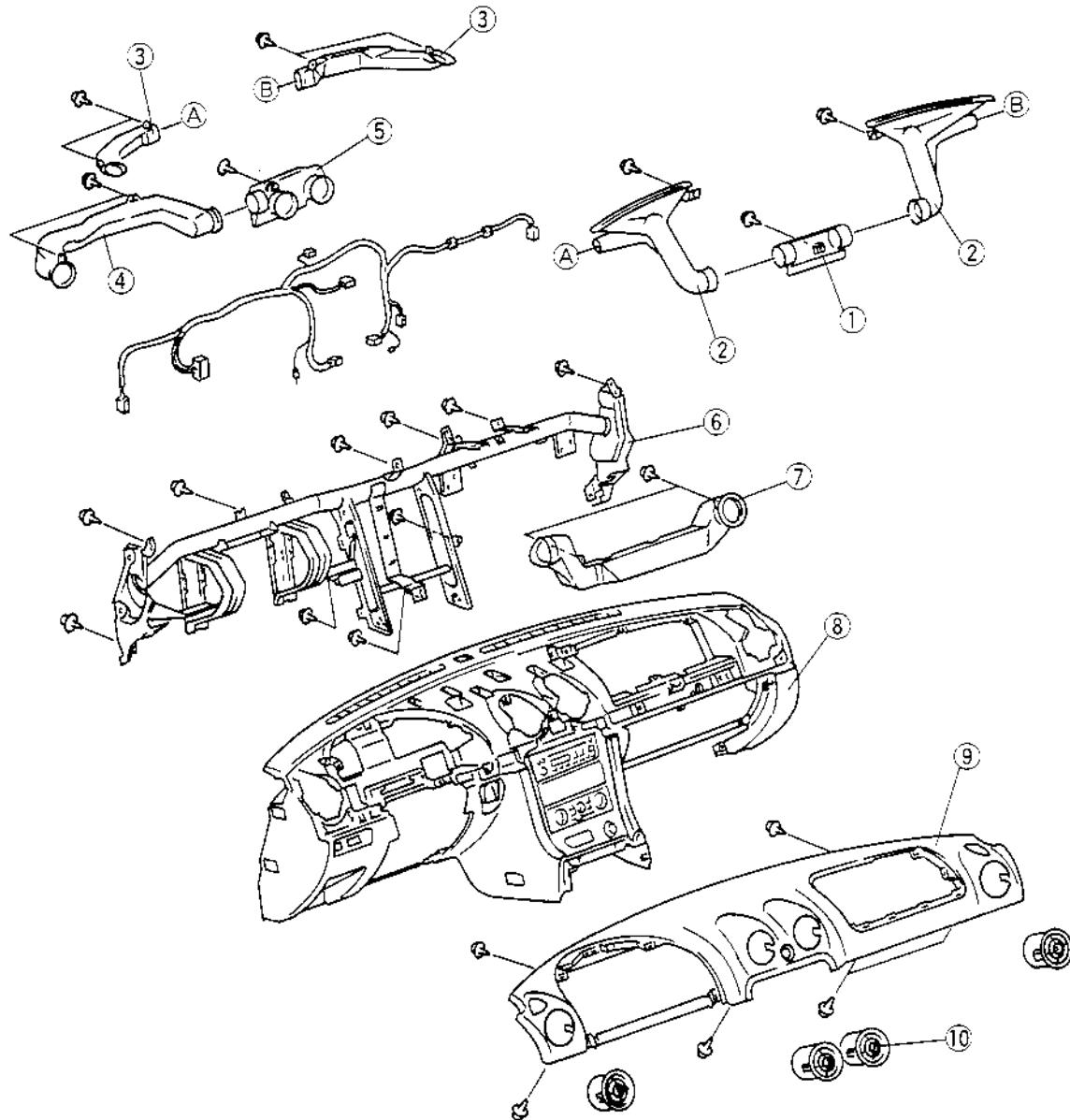
3	Connector
4	Dashboard

INTERIOR TRIM

DASHBOARD DISASSEMBLY/ASSEMBLY

X5U917W02

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



X5U917WA1

1	Defroster duct
2	Defroster nozzle
3	Side demister nozzle
4	Duct
5	Center duct

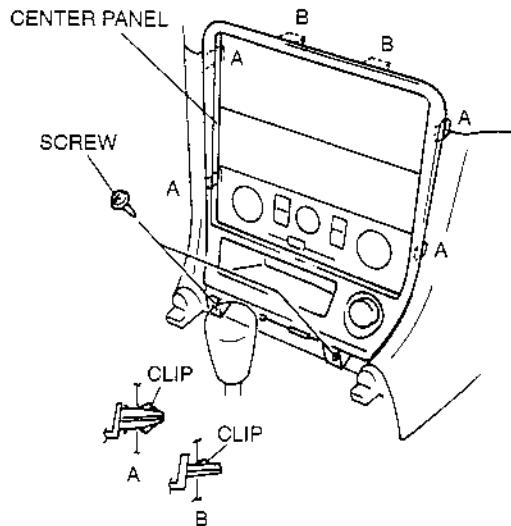
6	Dashboard member
7	Duct
8	Dashboard
9	Pad
10	Ventilator grille

INTERIOR TRIM

CENTER PANEL REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the console.
3. Remove the screws.
4. Pull the center panel to disengage the clips A and B from the body.
5. Disconnect the cigarette lighter connector.
6. Install in the reverse order of removal.

X5U917W09

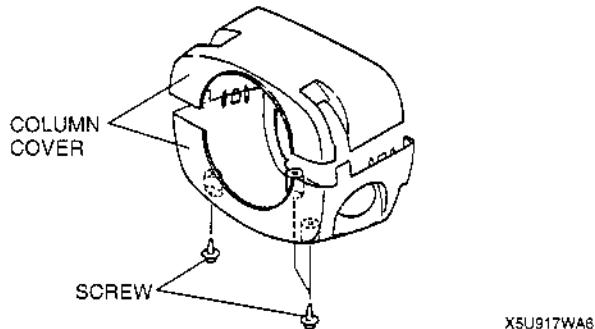


X5U917WA8

COLUMN COVER REMOVAL/INSTALLATION

1. Remove the screws to remove the column cover.
2. Install in the reverse order of removal.

X5U917W07



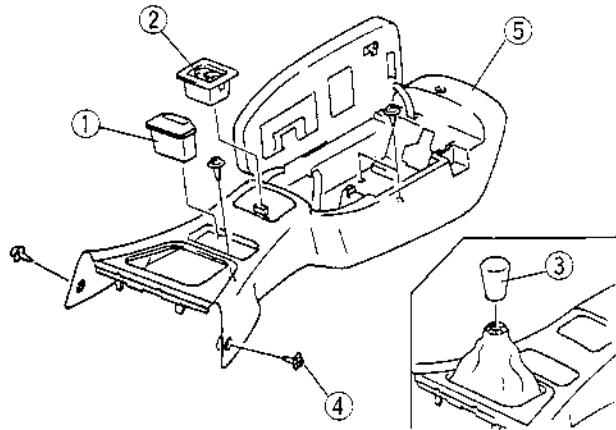
X5U917WA6

CONSOLE REMOVAL/INSTALLATION

X5U917WC4

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

1	Ashtray
2	Power window switch
3	Shift lever knob (MT)
4	Screw
5	Console

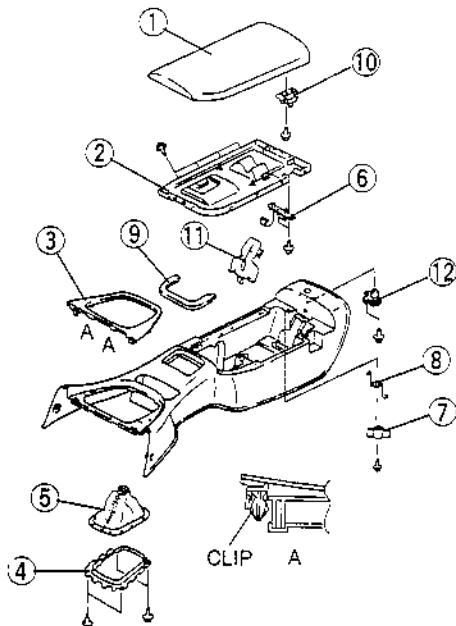


X5U917WA3

CONSOLE DISASSEMBLY/ASSEMBLY

X5U917WC5

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



1	Console lid outer
2	Console lid inner
3	Front console
4	Set plate (MT)
5	Boot (MT)
6	Console lid stopper
7	Plate
8	Spring
9	Cup holder
10	Console lid lock
11	Cover
12	Console lid key cylinder

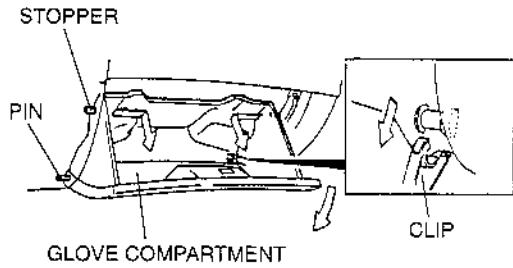
X5U917WA4

INTERIOR TRIM

GLOVE COMPARTMENT REMOVAL/INSTALLATION

X5U917W03

1. Bend the stoppers inward to remove.
2. Turn the glove compartment downward and pull the clip.
3. Slide the glove compartment right side to disengage the pin.
4. Install in the reverse order of removal.

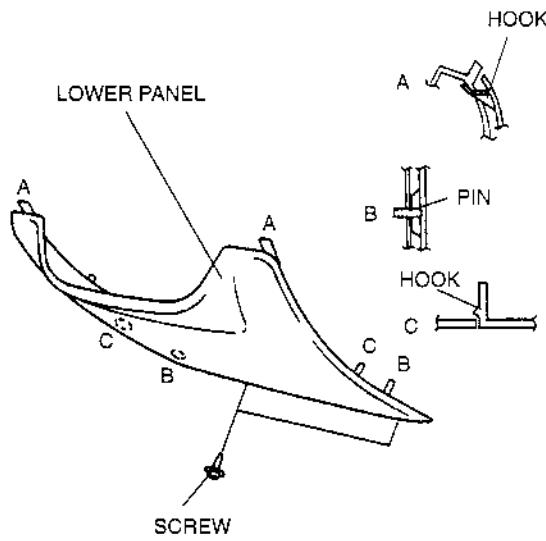


X5U917WA2

LOWER PANEL REMOVAL/INSTALLATION

X5U917W06

1. Remove the screws.
2. Pull the lower panel to disengage the hooks C and pins B from the body.
3. Pull the lower panel downward to disengage the hooks A from the body.
4. Install in the reverse order of removal.

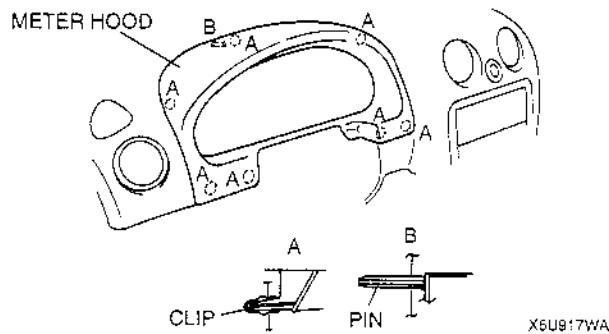


X5U917WA5

INTERIOR TRIM

METER HOOD REMOVAL/INSTALLATION

- Pull the meter hood to disengage the clips A and pin B from the body.

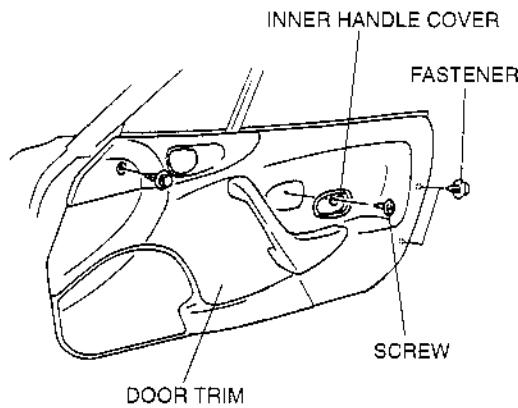


- Install in the reverse order of removal.

X6U917WB8

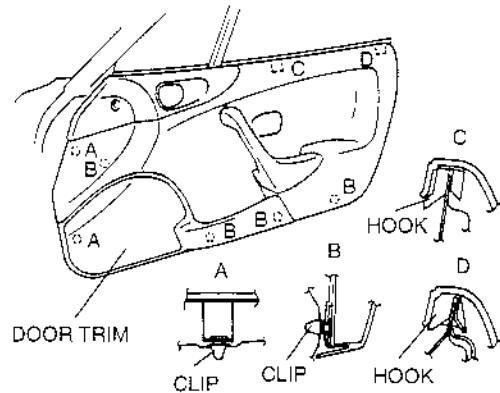
DOOR TRIM REMOVAL/INSTALLATION

- Remove the regulator handle if equipped with manual window. (Refer to 09-12 REGULATOR HANDLE REMOVAL.) (Refer to 09-12 REGULATOR HANDLE INSTALLATION.)
- Remove the screw.
- Remove the inner handle cover.
- Remove the fasteners.



- Pull the door trim to disengage the clips A and B from the body.
- Lift the door trim to disengage hooks C and D from the body.

X6U917W14



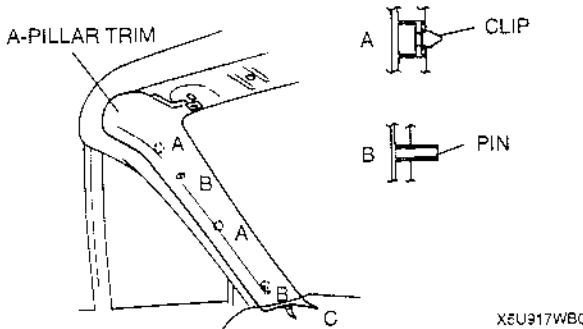
- Install in the reverse order of removal.

INTERIOR TRIM

A-PILLAR TRIM REMOVAL/INSTALLATION

X5U917W11

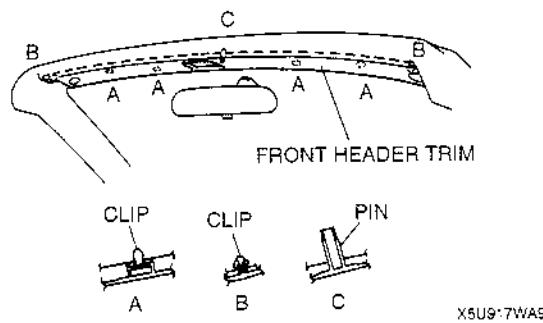
1. Remove the front header trim.
2. Pull the A-pillar trim to disengage the clips A and pin B from the body.
3. Pull the A-pillar trim upward to disengage the hook C from the body.



FRONT HEADER TRIM REMOVAL/INSTALLATION

X5U917W10

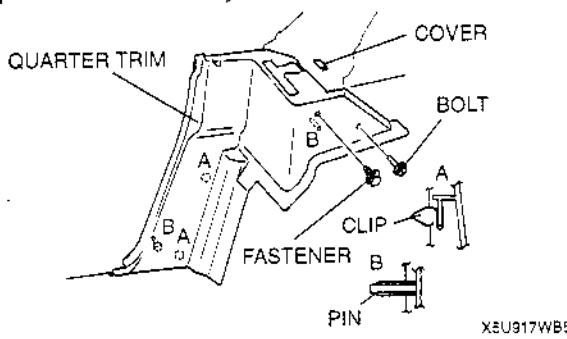
1. Disconnect the negative battery cable.
2. Remove the striker.
3. Remove the sunvisor.
4. Remove the interior light. (Refer to 09-18 INTERIOR LIGHT REMOVAL/INSTALLATION.)
5. Pull the front header trim to disengage the clips A, B and pin C from the body.



QUARTER TRIM REMOVAL/INSTALLATION

X5U917W15

1. Remove the scuff plate.
2. Remove the beltline cover.
3. Remove the seaming welt.
4. Remove the bolt and fastener.
5. Remove the cover.
6. Pull the quarter trim to disengage the clips A and pins B from the body.



4. Install in the reverse order of removal.

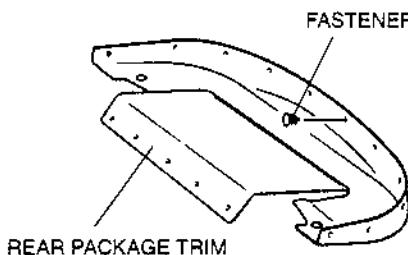
INTERIOR TRIM

REAR PACKAGE TRIM REMOVAL/INSTALLATION

1. Remove the quarter trim. (Refer to 09-17 QUARTER TRIM REMOVAL/INSTALLATION.)
2. Close the convertible top fully.
3. Remove the fasteners, then the rear package trim.

X5U917W19

4. Install in the reverse order of removal.



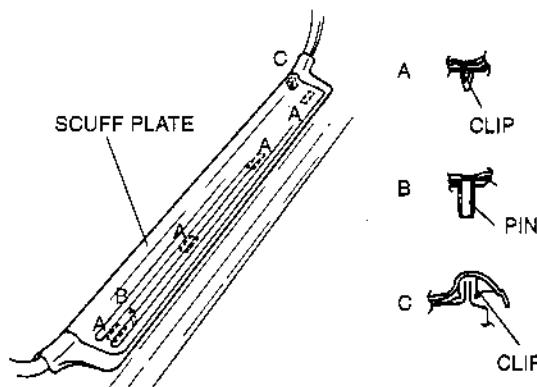
X5U917WB6

SCUFF PLATE REMOVAL/INSTALLATION

X5U917W13

1. Pull the scuff plate upward to disengage the clips A, C and pin B from the body.

2. Install in the reverse order of removal.

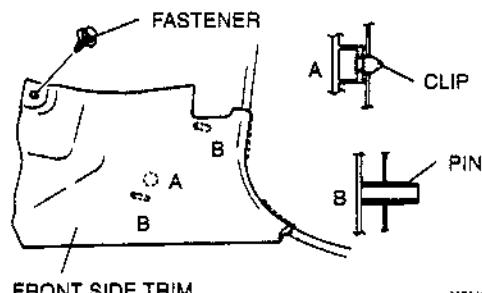


X5U917WB2

FRONT SIDE TRIM REMOVAL/INSTALLATION

X5U917W12

1. Remove the scuff plate.
2. Remove the fastener.
3. Pull the front side trim to disengage the clip A and pins B from the body.



X5U917WB1

4. Install in the reverse order of removal.

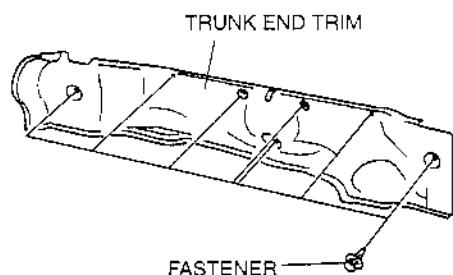
INTERIOR TRIM

TRUNK END TRIM REMOVAL/INSTALLATION

1. Remove the fasteners, then the trunk end trim.

2. Install in the reverse order of removal.

X5U917W16



X5U917WB7

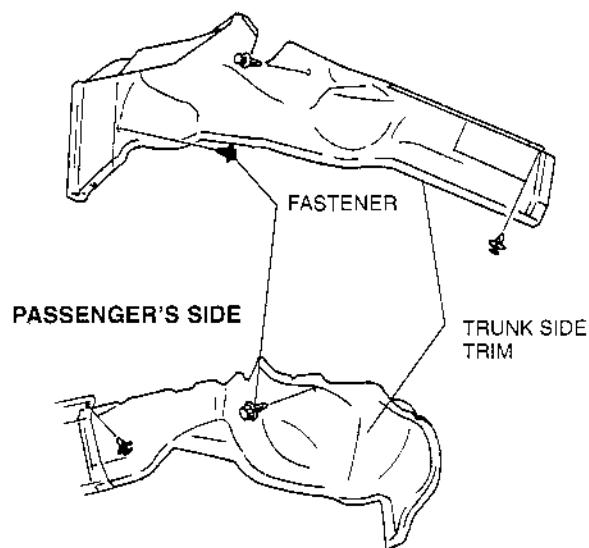
TRUNK SIDE TRIM REMOVAL/INSTALLATION

X5U917W17

1. Remove the fasteners, then the trunk side trim.

DRIVER'S SIDE

2. Install in the reverse order of removal.



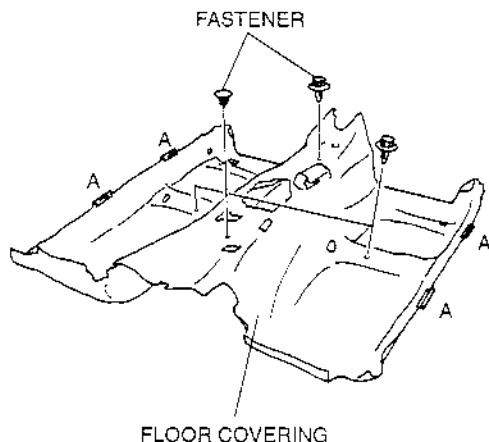
X5U917WB8

INTERIOR TRIM

FLOOR COVERING REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the seat.
3. Remove the dashboard. (Refer to 09-17 DASHBOARD REMOVAL/INSTALLATION.)
4. Remove the heater unit. (Refer to 07-40 HEATER UNIT REMOVAL/INSTALLATION.)
5. Remove the front side trim. (Refer to 09-17 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
6. Remove the rear package trim. (Refer to 09-17 REAR PACKAGE TRIM REMOVAL/INSTALLATION.)
7. Remove the rear end mat.
8. Remove the seat belt. (Refer to 08-11 SEAT BELT REMOVAL/INSTALLATION.)
9. Remove the footrest.
10. Remove the fasteners.
11. Disengage the hooks A from the body.
12. Remove the floor covering.

X5U917W20



X5U917WC0

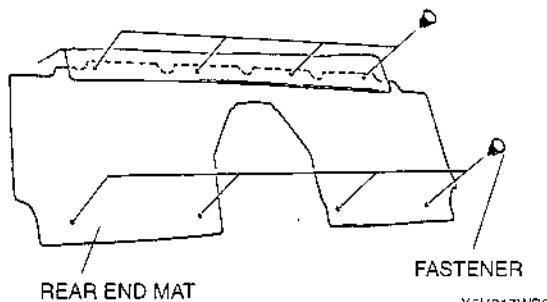
13. Install in the reverse order of removal.

REAR END MAT REMOVAL/INSTALLATION

1. Remove the fasteners, then the rear end mat.

X5U917W18

2. Install in the reverse order of removal.



X5U917WB9

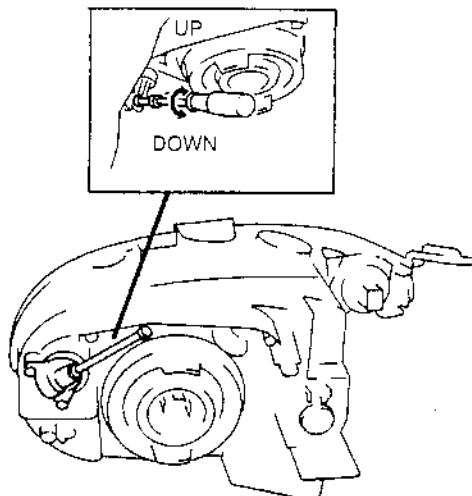
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HEADLIGHT ADJUSTMENT

1. Adjust the tire air pressure to the specification.
2. Position the unloaded vehicle on a flat, level surface.
3. Seat one person in the driver's seat.
4. Position the vehicle straight ahead and perpendicularly to a wall.
5. Set the headlights **7.6 m {25 ft}** from the wall.
6. While adjusting one headlight, disconnect the connector of the other.
7. Adjust the headlights by turning the adjusting screws as shown in the figure. Loosen the screws first, then tighten them.

X5U918W01



Note

- If the adjusting screws are tightened first, then loosened, they will continue to loosen when the vehicle is in motion and may cause the headlights to become misaligned.

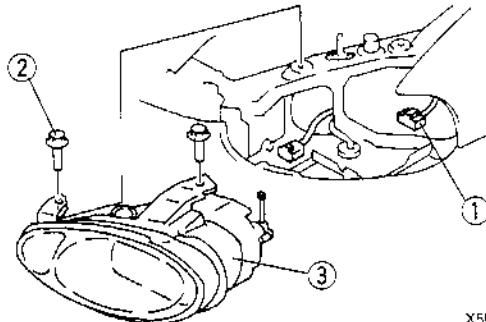
X5U918WAC

LIGHTING SYSTEM

FRONT COMBINATION LIGHT REMOVAL/INSTALLATION

X5U918W02

1. Disconnect the negative battery cable.
2. Remove the front bumper. (Refer to 09-10 FRONT BUMPER REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.
5. Adjust the headlight aiming. (Refer to 09-18 HEADLIGHT ADJUSTMENT.)



X5U918WA1

1	Front combination light connector
2	Bolt
3	Front combination light

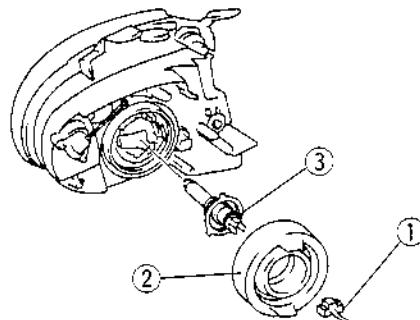
HEADLIGHT BULB REMOVAL/INSTALLATION

X5U918W03

Caution

- A halogen bulb generates extremely high heat when it is used. If the surface of the bulb is soiled, excessive heat will build up and the light's life will be shortened. When replacing the bulb, hold the metal flange, not the glass.

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



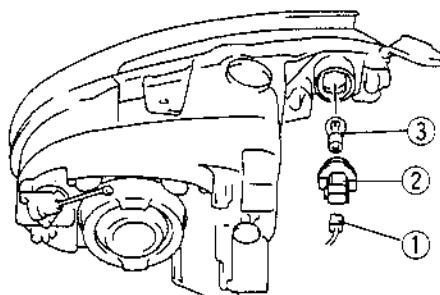
X5U918WA2

1	Headlight bulb connector
2	Cover
3	Headlight bulb

PARKING LIGHT/FRONT TURN LIGHT BULB REMOVAL/INSTALLATION

X5U918W05

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



X5U918WA4

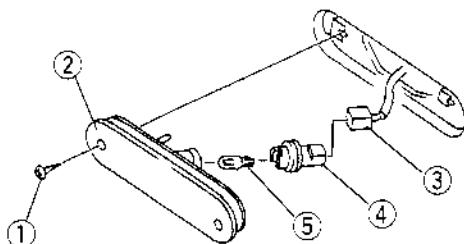
1	Parking light/front turn light bulb connector
2	Socket
3	Parking light/front turn light bulb

LIGHTING SYSTEM

FRONT SIDE MARKER LIGHT REMOVAL/INSTALLATION

X5U918W06

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



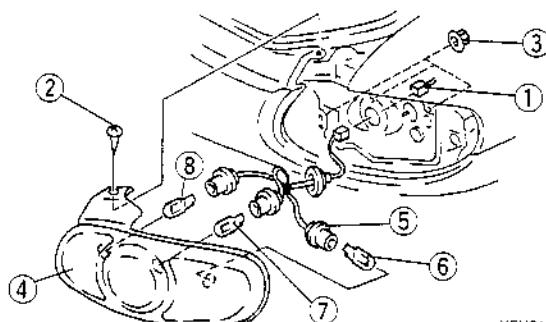
X5U918WA5

1	Screw
2	Front side marker light
3	Front side marker light connector
4	Socket
5	Front side marker light bulb

REAR COMBINATION LIGHT REMOVAL/INSTALLATION

X5U918W07

1. Disconnect the negative battery cable.
2. Remove the trunk end trim. (Refer to 09-17 TRUNK END TRIM REMOVAL/INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



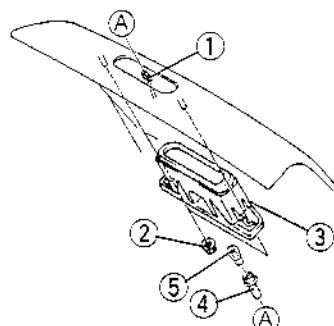
X5U918WA6

1	Rear combination light connector
2	Screw
3	Nut
4	Rear combination light
5	Socket
6	Brake light/tailight bulb
7	Rear turn light bulb
8	Back-up light bulb

HIGH-MOUNT BRAKE LIGHT REMOVAL/INSTALLATION

X5U918W09

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



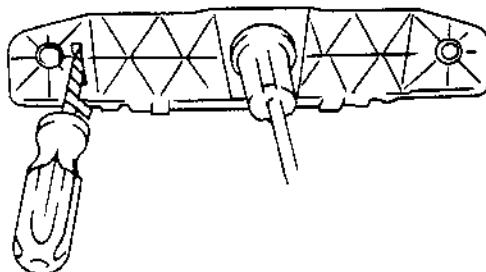
X5U918WA8

1	High-mount brake light connector
2	Nut
3	High-mount brake light ☞ Removal Note
4	Socket
5	High-mount brake light bulb

LIGHTING SYSTEM

High-mount Brake Light Removal Note

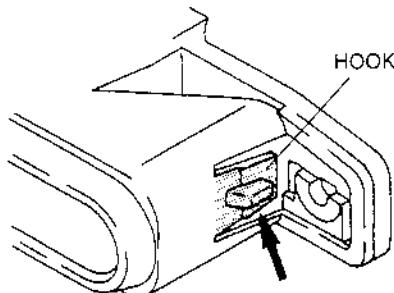
1. Insert a tape-wrapped flathead screwdriver into the left side opening.



X5U91BWAB

2. Press the hook of the high-mount brake light with a tape-wrapped flathead screwdriver.

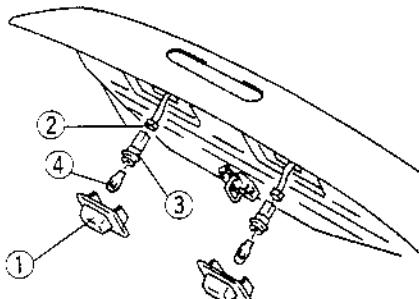
3. Pull the high-mount brake light out from the body.



X5U91BWAA

LICENSE PLATE LIGHT REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

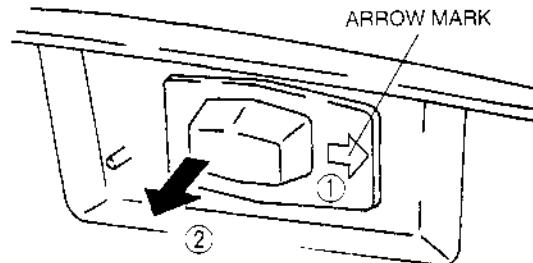


X5U91BWAB

X5U91BW10

License Plate Light Removal Note

- (1) Slide the license plate light to the arrow mark and (2) remove it.



X5U91BWAC

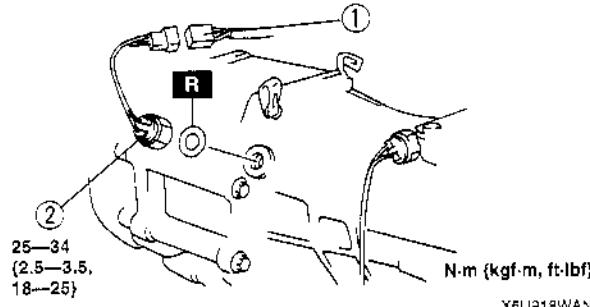
1	License plate light ➡ Removal Note
2	License plate light connector
3	Socket
4	License plate light bulb

BACK-UP LIGHT SWITCH REMOVAL/INSTALLATION

X5U91BW16

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

1	Back-up light switch connector
2	Back-up light switch



X5U91BWAN

LIGHTING SYSTEM

BACK-UP LIGHT SWITCH INSPECTION

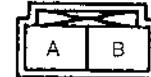
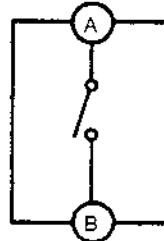
X5U918W17

1. Disconnect the back-up light switch connector.
2. Inspect for continuity between the back-up light switch terminals by using an ohmmeter.

○—○ : Continuity

Shift lever position	Terminal	
	A	B
Reverse	○	—○
Other	—	—

X5U918WAP



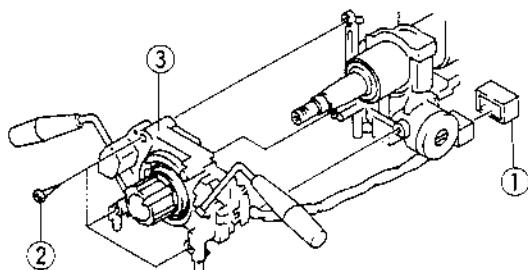
X5UB18WAV

3. If not as specified, replace the back-up light switch.

COMBINATION SWITCH REMOVAL/INSTALLATION

X5U918W11

1. Disconnect the negative battery cable.
2. Remove the driver-side air bag module. (Refer to 08-10 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
3. Remove the steering wheel. (Refer to 06-12 STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
4. Remove the column cover.
5. Remove the clock spring. (Refer to 08-10 CLOCK SPRING REMOVAL/INSTALLATION.)
6. Remove in the order indicated in the table.
7. Install in the reverse order of removal.



X5U918WAD

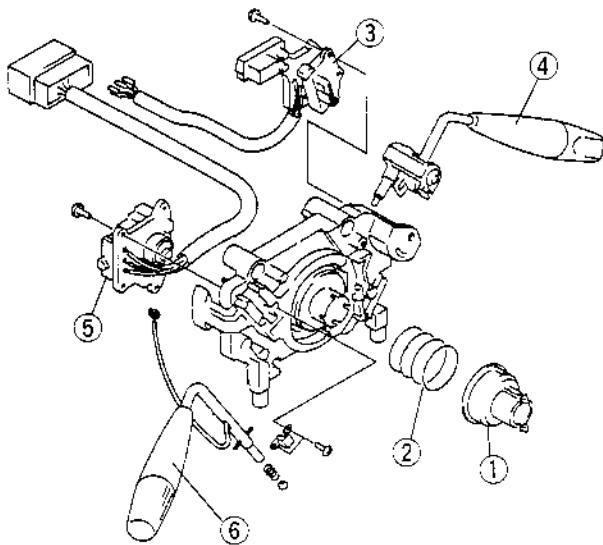
1	Combination switch connector
2	Screw
3	Combination switch

LIGHTING SYSTEM

COMBINATION SWITCH DISASSEMBLY/ASSEMBLY

X5U918W12

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



X5U918WAE

1	Cancel cam
2	Spring
3	Wiper unit → Assembly Note
4	Wiper lever
5	Light unit
6	Light lever

Wiper Unit Assembly Note

- Make sure the terminals of the harness assembly are connected to the terminals of the connector as shown in the table.

The color of assembly harness	Terminal of connector
LG	AJ
LG/R	J
G/R	F
Y/R	N
R	E
B	B
G/Y	H
G/W	L
G/B	P

COMBINATION SWITCH INSPECTION

X5U918W13

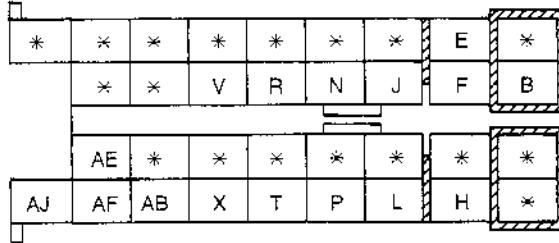
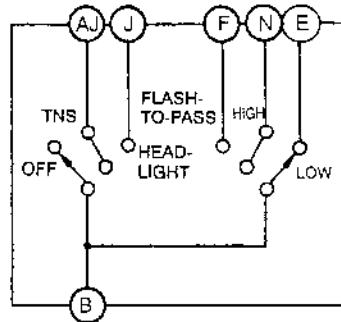
Headlight Switch

1. Remove the combination switch. (Refer to 09-18 COMBINATION SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the combination switch terminals by using an ohmmeter.

○—○ : Continuity

Switch position		Terminal						
Light	Dimmer	Flash-to-pass	B	E	N	AJ	J	F
OFF	—	Off						
		On	○		○		○	
TNS	—	Off	○		○			
		On	○		○	○	○	
Head-light	Low	Off	○	○		○	○	
		On	○		○	○	○	○
	High	—	○		○	○	○	

X5U918WAF



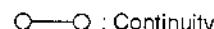
X5U918WAG

3. If not as specified, replace the light unit or light lever.

LIGHTING SYSTEM

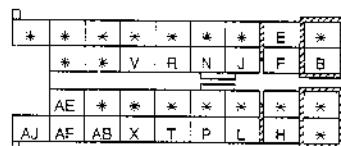
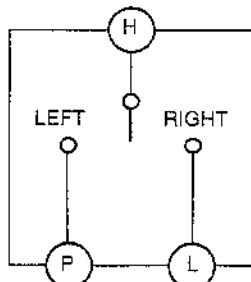
Turn Switch

1. Remove the combination switch. (Refer to 09-18 COMBINATION SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the combination switch terminals by using an ohmmeter.

 : Continuity

Switch position	Terminal		
	H	P	L
Right			
Off			
Left			

X5U918WAH



X5U918WAJ

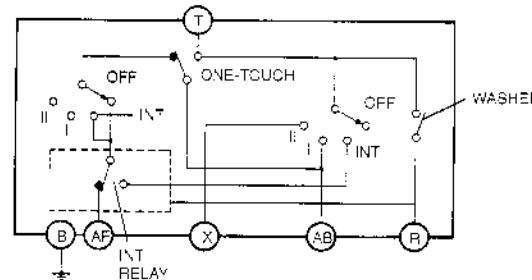
3. If not as specified, replace the light unit or light lever.

Windshield Wiper and Washer Switch

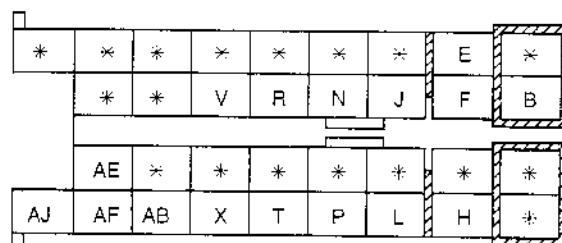
1. Remove the combination switch. (Refer to 09-18 COMBINATION SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the combination switch terminals by using an ohmmeter.

Switch position	One-touch	Terminal				
		R	AF	T	AB	X
Wiper switch	OFF	OFF				
	ON					
	INT					
	1					
Washer switch	2					
	ON					

X5U918WBB



X5U918WBC



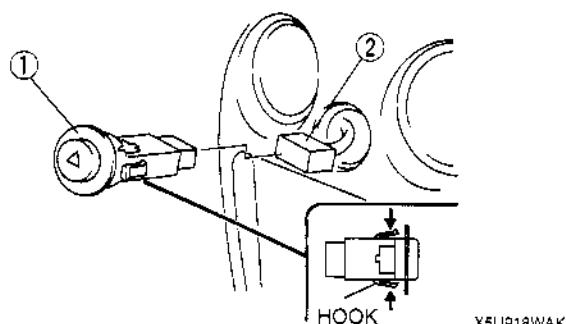
X5U918WBD

3. If not as specified, replace the wiper unit or the wiper lever.

HAZARD WARNING SWITCH REMOVAL/INSTALLATION

X5U918W14

1. Disconnect the negative battery cable.
2. Remove the audio unit. (Refer to 09-20 AUDIO UNIT REMOVAL.) (Refer to 09-20 AUDIO UNIT INSTALLATION.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



X5U918WAK

Hazard Warning Switch Removal Note

1. Insert your hand into the center panel opening and press the hooks of the hazard warning switch.
2. Pull the hazard warning switch out from the center panel.

LIGHTING SYSTEM

HAZARD WARNING SWITCH INSPECTION

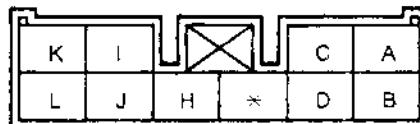
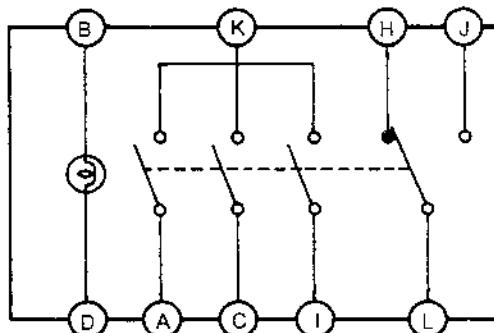
X5U918W*5

1. Remove the hazard warning switch. (Refer to 09-18 HAZARD WARNING SWITCH REMOVAL/INSTALLATION.)
2. Inspect for continuity between the hazard warning switch terminals by using an ohmmeter.

 : Continuity  : Bulb

Switch position	Terminal								
	H	J	L	A	C	I	K	B	D
Off									
On									

X5U918WA4



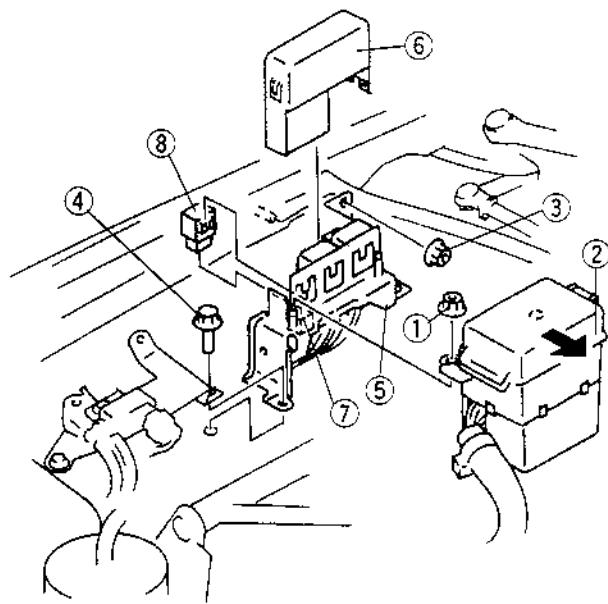
X5U918WAM

3. If not as specified, replace the hazard warning switch.

HEADLIGHT RELAY REMOVAL/INSTALLATION

X5U918W*8

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



X5U918WAQ

1	Nut
2	Main fuse block
3	Nut
4	Bolt
5	Bracket
6	Cover
7	Headlight relay connector
8	Headlight relay

LIGHTING SYSTEM

HEADLIGHT RELAY INSPECTION

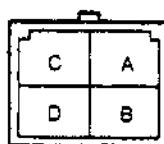
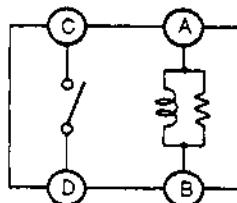
1. Remove the headlight relay.
2. Inspect for continuity between the headlight relay terminals by using an ohmmeter.

X5U918W19

: Continuity

Step	Terminal			
	A	B	C	D
1				
2	B+	GND		

X5U918WAR



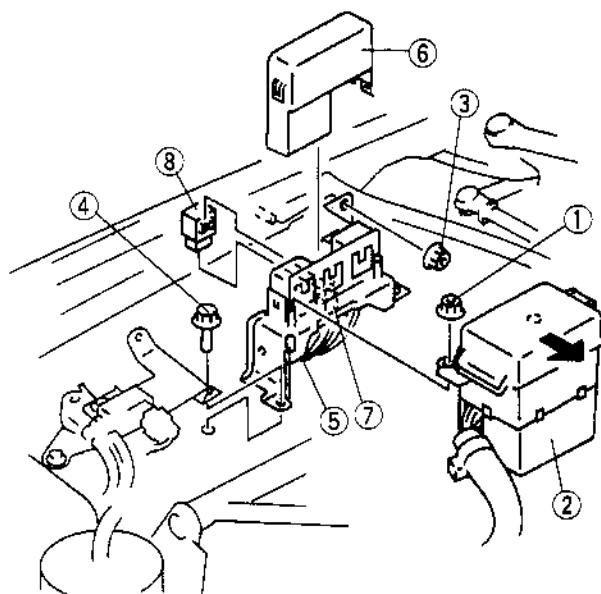
X5U918WAS

3. If not as specified, replace the headlight relay.

TNS RELAY REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.

X5U918W20



1	Nut
2	Main fuse block
3	Nut
4	Bolt
5	Bracket
6	Cover
7	TNS relay connector
8	TNS relay

X5U918WAT

TNS RELAY INSPECTION

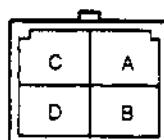
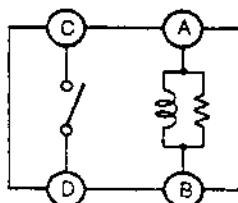
X5U918W21

1. Remove the TNS relay.
2. Inspect for continuity between the TNS relay terminals by using an ohmmeter.

: Continuity

Step	Terminal			
	A	B	C	D
1				
2	B+	GND		

X5U918WAR



X5U918WAS

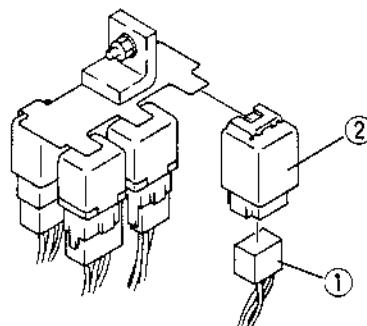
3. If not as specified, replace the TNS relay.

LIGHTING SYSTEM

FLASHER CONTROL MODULE REMOVAL/INSTALLATION

X5U918W22

1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



X5U918WAW

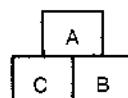
1	Flasher control module connector
2	Flasher control module

FLASHER CONTROL MODULE INSPECTION

X5U918W23

1. Measure the voltage at the flasher control module terminals as indicated below.
2. Disconnect the flasher control module connector before inspecting for continuity at terminal B.
3. If not as specified, inspect the parts listed under "Inspection area" and the related wiring harnesses.
4. If the parts and wiring harnesses are okay but the system still does not work properly, replace the flasher control module.

Terminal Voltage List (Reference)



X5U918WAX

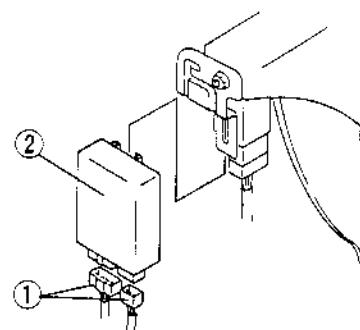
Terminal	Signal	Connection	Test condition		Voltage (V)/Continuity	Inspection area
A	Flasher control module output	Hazard warning switch	Hazard warning switch on		Alternates B+ and 0	<ul style="list-style-type: none"> Hazard warning switch Turn signal light
			Hazard warning switch off	Ignition switch at ON	B+	
				Ignition switch at LOCK or ACC	0	
B	Flasher control module ground	GND	Constant: inspect for continuity to ground		Yes	GND
C	Power supply	Hazard warning switch	Hazard warning switch on		B+	<ul style="list-style-type: none"> HAZARD 10 A fuse TURN 10 A fuse Hazard warning switch
			Hazard warning switch off	Ignition switch at ON	B+	
				Ignition switch at LOCK or ACC	0	

LIGHTING SYSTEM

DRL CONTROL MODULE REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.

X5U918W24



X5U918WAY

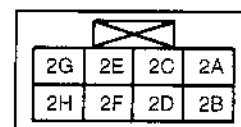
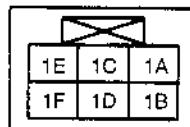
1	DRL control module connector
2	DRL control module

DRL CONTROL MODULE INSPECTION

X5U918W25

1. Measure the voltage at the DRL control module terminals as indicated below.
2. Disconnect the DRL control module connector before inspecting for continuity at terminal 1E.
3. If not as specified, inspect the parts listed under "Inspection area" and the related wiring harnesses.
4. If the parts and wiring harnesses are okay but the system still does not work properly, replace the DRL control module.

Terminal Voltage List (Reference)



X5U918WAZ

Terminal	Signal	Connection	Test condition		Voltage (V)/Continuity	Inspection area
1A	RH headlight operation (low beam)	RH headlight (low beam)	Headlight switch at 2nd position	Dimmer switch at high beam position	B+	<ul style="list-style-type: none"> • H/L-R 15 A fuse • RH headlight
				Dimmer switch at low beam position	0	
			Headlight switch at OFF or 1st position		0	
1B	IG1	ENGINE 15 A fuse	Ignition switch at ON		B+	ENGINE 15 A fuse
			Ignition switch at LOCK or ACC		0	
1C	LH headlight operation (low beam)	LH headlight (low beam)	Headlight switch at 2nd position	Dimmer switch at high beam position	B+	<ul style="list-style-type: none"> • H/L-L 15 A fuse • LH headlight
				Dimmer switch at low beam position	0	
			Headlight switch at OFF or 1st position		0	
1D	Power supply	HEAD 40 A fuse	Constant		B+	HEAD 40 A fuse
1E	DRL control module ground	GND	Constant: inspect for continuity to ground		Yes	GND
1F	Headlight operation (high beam)	Headlight (high beam)	Headlight switch at 2nd position	Dimmer switch at high beam position	0	Headlight
				Dimmer switch at low beam position	B+	
			Headlight switch at OFF or 1st position		0	

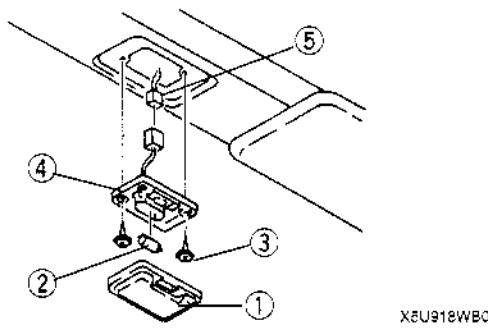
LIGHTING SYSTEM

Terminal	Signal	Connection	Test condition		Voltage (V)/Continuity	Inspection area
2A	Headlight relay operation	Headlight relay	Headlight switch at 2nd position	0	• HEAD 40 A fuse • Headlight relay	
			Headlight switch at OFF or 1st position	B+		
2B	Flash-to-pass	Headlight switch	Flash-to-pass activated	0	Combination switch	
			Flash-to-pass not activated	B+		
2C	—	Not used	—		—	—
2D	Brake system warning light operation	<ul style="list-style-type: none"> • Brake system warning light • Brake fluid level sensor 	Ignition switch at ON	Brake fluid level is below MIN.	0	<ul style="list-style-type: none"> • METER 15 A fuse • Instrument cluster • Brake fluid level sensor
				Brake fluid level is above MIN.	B+	
			Ignition switch at LOCK or ACC	0		
2E	—	Not used	—		—	—
2F	Parking brake lever pulled/released	Parking brake switch	Parking brake lever pulled	0	Parking brake switch	
			Parking brake lever released	B+		
2G	High beam on/off	Headlight switch	Dimmer switch at high position	0	Combination switch	
			Dimmer switch at low position	B+		
2H	Headlight switch on/off	Headlight switch	Headlight switch at 2nd position	0	Combination switch	
			Headlight switch at OFF or 1st position	B+		

INTERIOR LIGHT REMOVAL/INSTALLATION

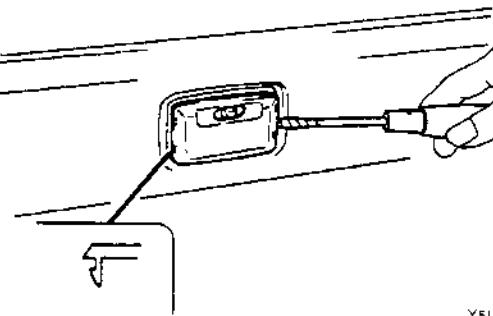
X5U918W26

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



Lens Removal Note

1. Insert a tape-wrapped flathead screwdriver into the lens.
2. Twist the screwdriver to remove the lens.



1	Lens Removal Note
2	Interior light bulb
3	Screw
4	Interior light
5	Interior light connector

LIGHTING SYSTEM

INTERIOR LIGHT INSPECTION

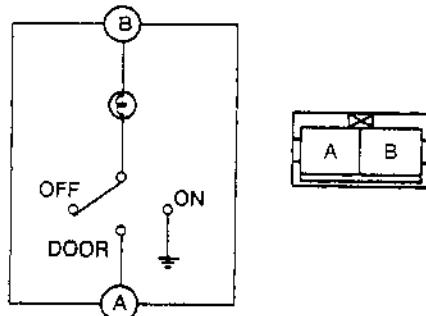
1. Remove the interior light. (Refer to 09-18 INTERIOR LIGHT REMOVAL/INSTALLATION.)
2. Inspect for continuity between the interior light terminals by using an ohmmeter.

X5U918W27

 : Bulb

Switch position	Terminal		
	A	B	Body GND
ON			
DOOR			
OFF			

X5U918WB2



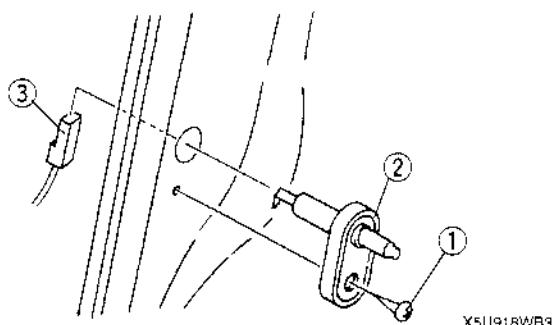
X5U918WAU

3. If not as specified, replace the interior light.

DOOR SWITCH REMOVAL/INSTALLATION

X5U918W28

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



X5U918WB3

1	Screw
2	Door switch
3	Door switch connector

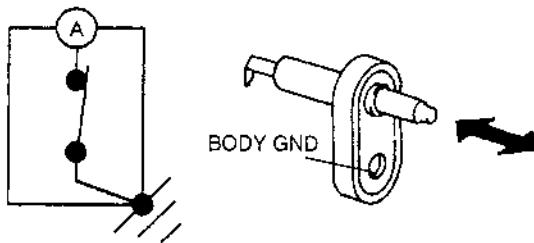
DOOR SWITCH INSPECTION

X5U918W29

1. Remove the door switch.
2. Inspect for continuity between the door switch terminals by using an ohmmeter.

Switch condition	Terminal	
	A	Body GND
Pressed		
Released		

X5U918WB4



X5U918WB5

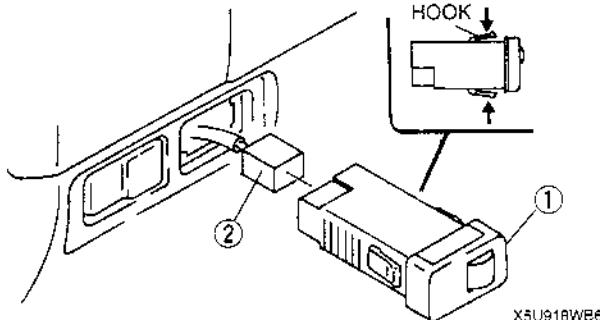
3. If not as specified, replace the door switch.

LIGHTING SYSTEM

PANEL LIGHT CONTROL SWITCH REMOVAL/INSTALLATION

X5U918W3C

1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove in the order indicated in the table.
4. Install in the reverse order of removal.



Panel Light Control Switch Removal Note

1. Insert your hand inside the dashboard and press the hooks of the panel light control switch.
2. Pull the panel light control switch out from the dashboard.

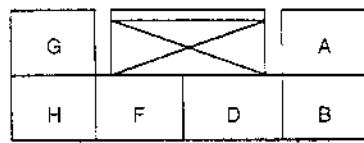
1	Panel light control switch ☞ Removal Note
2	Panel light control switch connector

PANEL LIGHT CONTROL SWITCH INSPECTION

X5U918WB31

1. Remove the panel light control switch without disconnecting the connector. (Refer to 08-18 PANEL LIGHT CONTROL SWITCH REMOVAL/INSTALLATION.)
2. Measure the voltage at the panel light control switch terminals as indicated below.
3. Disconnect the panel light control switch connector before inspecting for continuity at terminal G.
4. If not as specified, inspect the parts listed under "Inspection area" and the related wiring harnesses.
5. If the parts and wiring harnesses are okay but the system still does not work properly, replace the panel light control switch.

Terminal Voltage List (Reference)



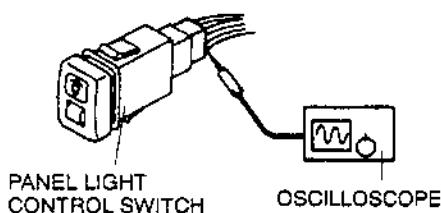
X5U918WB7

Terminal	Signal	Connection	Test condition	Voltage (V)/Continuity	Inspection area
A	Panel light control output	Each illumination	Inspect by using an oscilloscope ☞ A terminal inspection	—	Each illumination
B	—	Not used	—	—	—
D	Power supply	TNS relay	Headlight switch at 1st or 2nd position	B+	• Combination switch
			Headlight switch at OFF	0	• TAIL 15 A fuse
F	—	Not used	—	—	—
G	Panel light control switch ground	GND	Constant: Inspect for continuity to ground	Yes	GND
H	—	Not used	—	—	—

LIGHTING SYSTEM

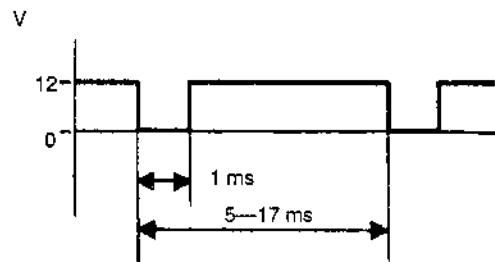
A terminal inspection

1. Measure the wave pattern of the A terminal on the panel light control switch by using an oscilloscope.



X5U918WB8

5. Verify that the pattern on the screen matches the pattern shown in the figure as the panel light control switch is gradually turned to the darkest position.



X5U918WBA

2. Set the headlight switch to either the first or second position.
3. Set the panel light control switch to the brightest position.
4. Verify that the pattern on the screen is as shown in the figure.



X5U918WB9

09-19 WIPER AND WASHER

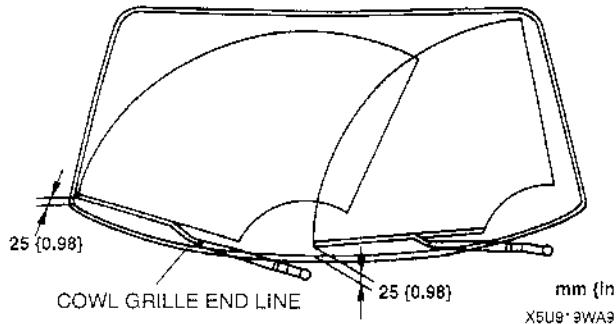
WINDSHIELD WIPER ARM AND BLADE	
ADJUSTMENT	09-19-1
WINDSHIELD WIPER ARM AND BLADE	
REMOVAL/INSTALLATION	09-19-1
Windshield Wiper Arm Installation Note	09-19-1
WINDSHIELD WIPER LINK	
REMOVAL/INSTALLATION	09-19-2
WINDSHIELD WIPER MOTOR	
REMOVAL/INSTALLATION	09-19-2
Windshield Wiper Motor Removal Note	09-19-2
WINDSHIELD WIPER MOTOR	
INSPECTION	09-19-2
WINDSHIELD WASHER TANK	
REMOVAL/INSTALLATION	09-19-3

WINDSHIELD WASHER MOTOR	
REMOVAL/INSTALLATION	09-19-4
WINDSHIELD WASHER MOTOR	
INSPECTION	09-19-4
WINDSHIELD WASHER NOZZLE	
ADJUSTMENT	09-19-5
WINDSHIELD WASHER NOZZLE	
REMOVAL	09-19-5
WINDSHIELD WASHER NOZZLE	
INSTALLATION	09-19-5
WINDSHIELD WASHER PIPE	
REMOVAL/INSTALLATION	09-19-6

WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT

X5U919W04

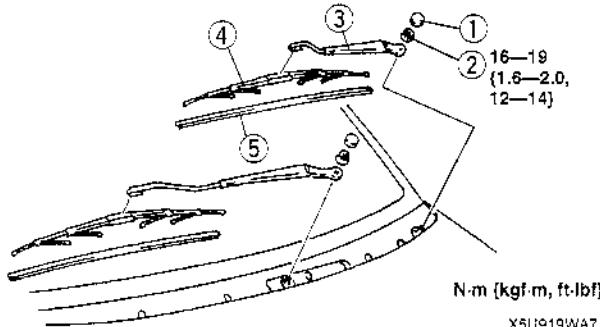
1. Operate the windshield wiper motor to set the windshield wipers in the park position.
2. Set the windshield wiper arm height as shown.



WINDSHIELD WIPER ARM AND BLADE REMOVAL/INSTALLATION

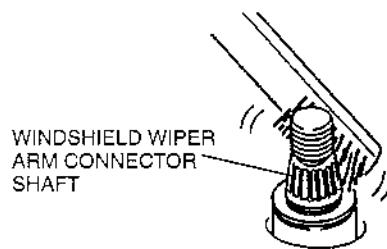
X5U919W03

1. Remove in the order indicated in the table.
2. Install in the reverse order of removal.
3. Adjust the windshield wiper arm and blade. (Refer to 09-19 WINDSHIELD WIPER ARM AND BLADE ADJUSTMENT.)



Windshield Wiper Arm Installation Note

- Clean the windshield wiper arm connector shafts by using a wire brush before installing the windshield wiper arms.



1	Cap
2	Nut
3	Windshield wiper arm <small>☞ Installation Note</small>

X5U919WA8