

09-14 SECURITY AND LOCKS

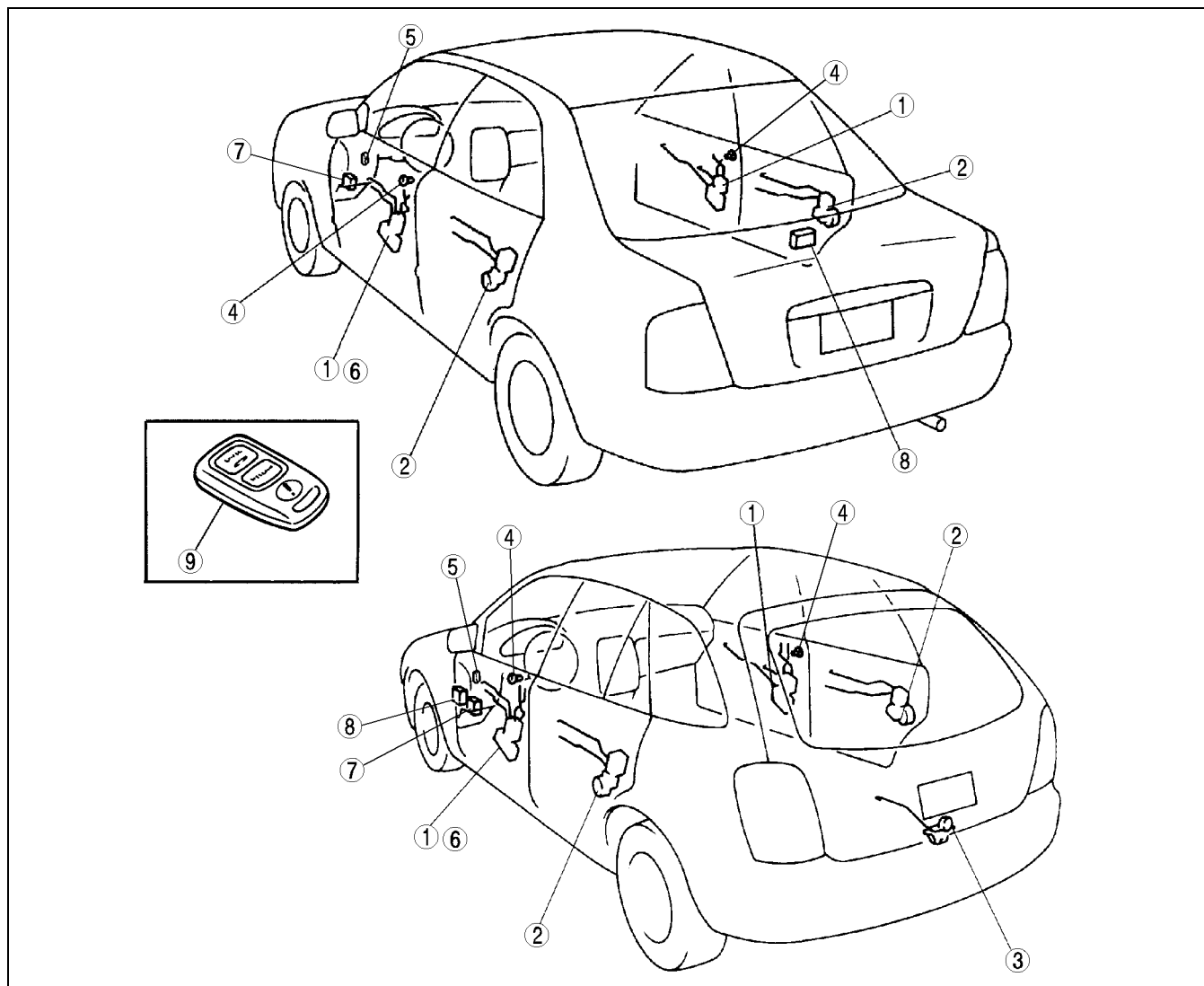
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A3U09146600W01



A3U0914W004

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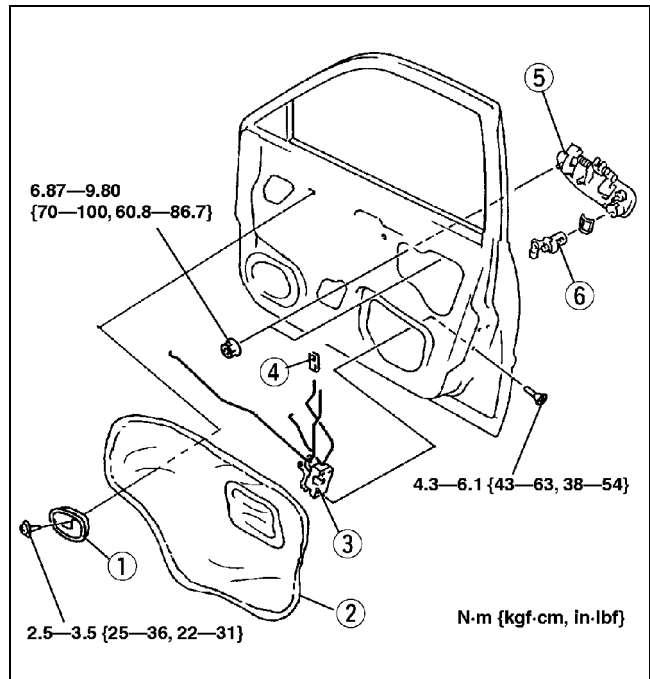
FRONT DOOR LOCK AND OPENER REMOVAL/INSTALLATION

A3U091458311W01

1. Close the front door glass completely.
2. Disconnect the negative battery cable.
3. Remove the front door trim. (See 09–17–9 FRONT DOOR TRIM REMOVAL/INSTALLATION.)
4. Remove in the order indicated in the table.

1	Inner handle
2	Door screen
3	Front door lock
4	Door lock knob
5	Outer handle
6	Door key cylinder

5. Install in the reverse order of removal.



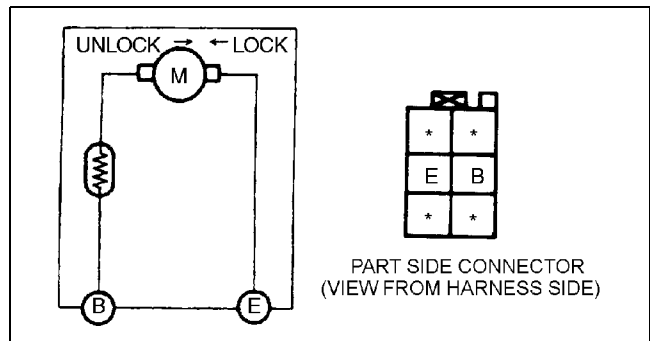
X3U914WA0

FRONT DOOR LOCK ACTUATOR INSPECTION

A3U091458310W01

1. Remove the front door trim.
2. Turn the door screen over.
3. Disconnect the front door lock actuator connector.
4. Apply battery positive voltage to the front door lock actuator terminals and inspect the operation of the front door lock actuator.
 - If not as specified, replace the front door lock.

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



Z3U0914W010

FRONT DOOR LOCK ACTUATOR REMOVAL/INSTALLATION

A3U091458310W02

1. Disconnect the negative battery cable.
2. Remove the door screen. (See 09–14–3 FRONT DOOR LOCK AND OPENER REMOVAL/INSTALLATION.)
3. Disconnect the front door lock actuator connector.
4. Disconnect the rods from the outer handle and the door key cylinder.
5. Remove the screws, and then remove the front door lock.
6. Remove the screws, and then remove the front door lock actuator from the front door lock.
7. Install in the reverse order of removal.

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DOOR LOCK-LINK SWITCH INSPECTION

A3U091458211W01

Note

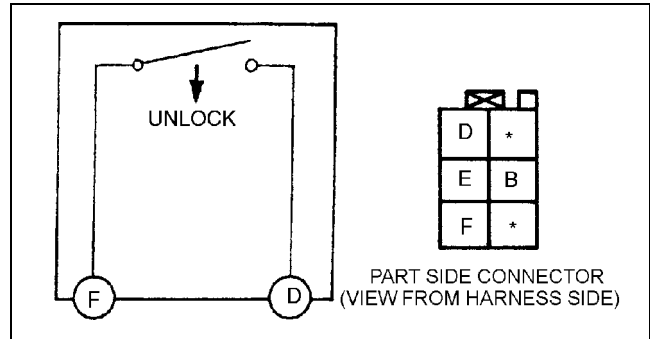
- The door lock-link switch is together with the driver-side door lock actuator.

- Remove the driver-side door trim.
- Turn the door screen over.
- Disconnect the door lock-link switch connector.
- Inspect for continuity between the door lock-link switch terminals using an ohmmeter.
 - If not as specified, replace the door lock actuator.

○—○ : Continuity

Lock knob position	Terminal	
	F	D
Lock		
Unlock	○—○	○—○

Z3U0914W012



Z3U0914W011

DOOR LOCK-LINK SWITCH REMOVAL/INSTALLATION

A3U091458211W02

Note

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

- Remove the driver-side door lock actuator. (See 09-14-3 FRONT DOOR LOCK ACTUATOR REMOVAL/INSTALLATION.)

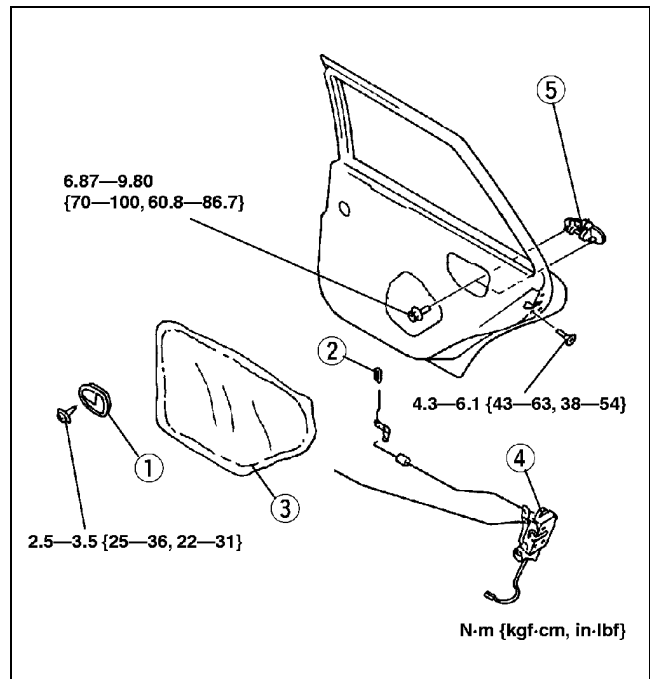
REAR DOOR LOCK AND OPENER REMOVAL/INSTALLATION

A3U091472311W01

- Close the rear door glass completely.
- Disconnect the negative battery cable.
- Remove the rear door trim. (See 09-17-9 REAR DOOR TRIM REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.

1	Inner handle
2	Door lock knob
3	Door screen
4	Rear door lock
5	Outer handle

- Install in the reverse order of removal.



X3U914WA2

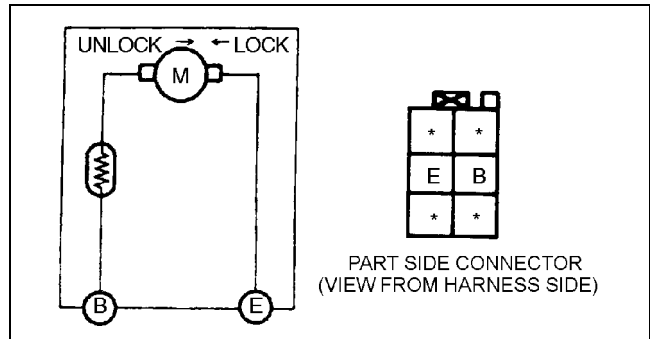
SECURITY AND LOCKS

REAR DOOR LOCK ACTUATOR INSPECTION

A3U091472310W01

1. Remove the rear door trim.
2. Turn the door screen over.
3. Disconnect the rear door lock actuator connector.
4. Apply battery positive voltage to the rear door lock actuator terminals and inspect the operation of the rear door lock actuator.
 - If not as specified, replace the rear door lock.

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



Z3U0914W013

REAR DOOR LOCK ACTUATOR REMOVAL/INSTALLATION

A3U091472310W02

1. Disconnect the negative battery cable.
2. Remove the door screen. (See 09-14-4 REAR DOOR LOCK AND OPENER REMOVAL/INSTALLATION.)
3. Disconnect the rear door lock actuator connector.
4. Disconnect the rod from the outer handle.
5. Remove the screws, and then remove the rear door lock.
6. Remove the screws, and then remove the rear door lock actuator from the rear door lock.
7. Install in the reverse order of removal.

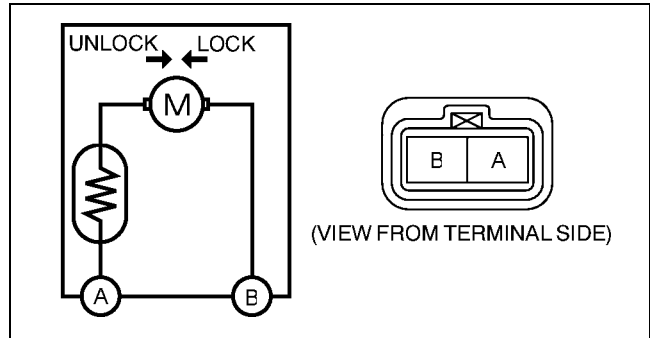
09-14

LIFTGATE LOCK ACTUATOR INSPECTION

A3U091462310W01

1. Disconnect the liftgate lock actuator connector.
2. Apply battery positive voltage to the liftgate lock actuator terminals and inspect the operation of the liftgate lock actuator.
 - If not as specified, replace the liftgate lock.

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

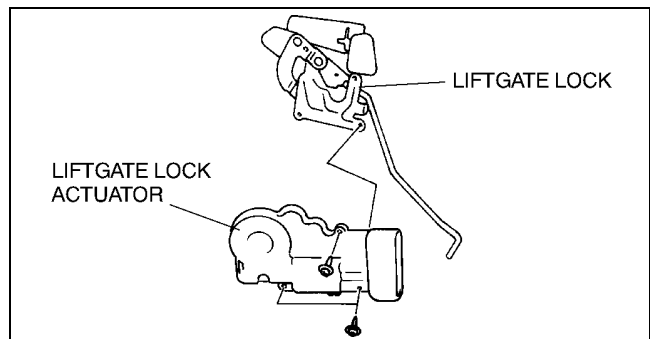


A3U0914W003

LIFTGATE LOCK ACTUATOR REMOVAL/INSTALLATION

A3U091462310W02

1. Disconnect the negative battery cable.
2. Remove the liftgate lock.
3. Remove the screws, then remove the liftgate lock actuator.
4. Install in the reverse order of removal.



A3U0914W002

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DOOR KEY CYLINDER SWITCH INSPECTION

A3U091475911W01

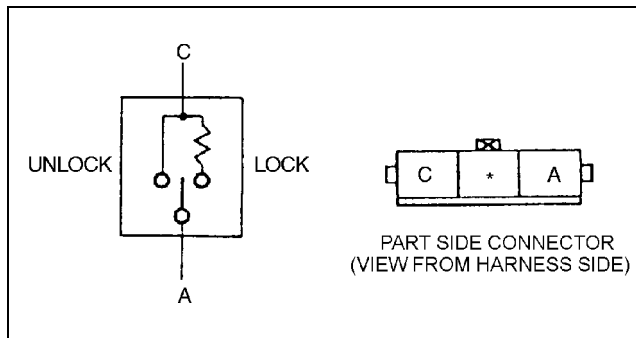
1. Raise the door glass completely.
2. Disconnect the negative battery cable.
3. Remove the passenger-side front door trim.
4. Remove the door screen.
5. Disconnect the door key cylinder switch connector.
6. Inspect for continuity between the door key cylinder switch terminals using an ohmmeter.
 - If not as specified, replace the door key cylinder switch.

○—○ : Continuity ○ Ω ○ : Resistance

Key cylinder position	Terminal	
	A	C
Neutral		
Lock	○— Ω —○	R
Unlock	○—○	○

R: 950—1050 Ω

X3U914WC7

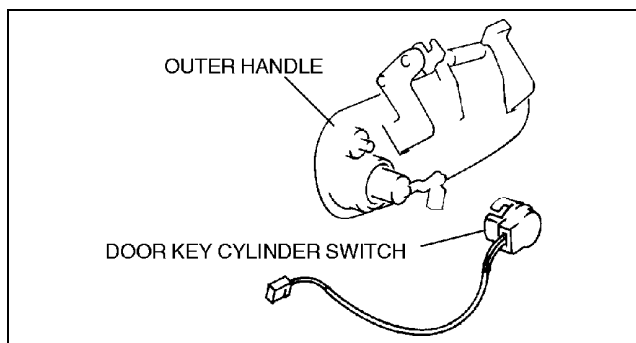


Z3U0914W014

DOOR KEY CYLINDER SWITCH REMOVAL/INSTALLATION

A3U091475911W02

1. Close the door glass completely.
2. Disconnect the negative battery cable.
3. Remove the passenger-side front door trim.
4. Remove the door screen.
5. Release the outer handle and the door key cylinder installation rods.
6. Disconnect the door key cylinder switch connector.
7. Remove the door key cylinder switch.
8. Install in the reverse order of removal.



X3U914WA5

DOOR LOCK SWITCH INSPECTION

A3U091466210W01

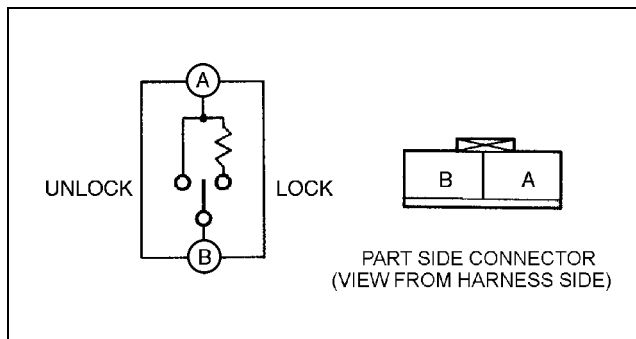
1. Remove the door lock switch.
2. Inspect for continuity between the door lock switch terminals using an ohmmeter.
 - If not as specified, replace the door lock switch.

○—○ : Continuity ○ Ω ○ : Resistance

Switch position	Terminal	
	A	B
Lock	○— Ω —○	R
Unlock	○—○	○

R: 950—1050 Ω

X3U914WA7



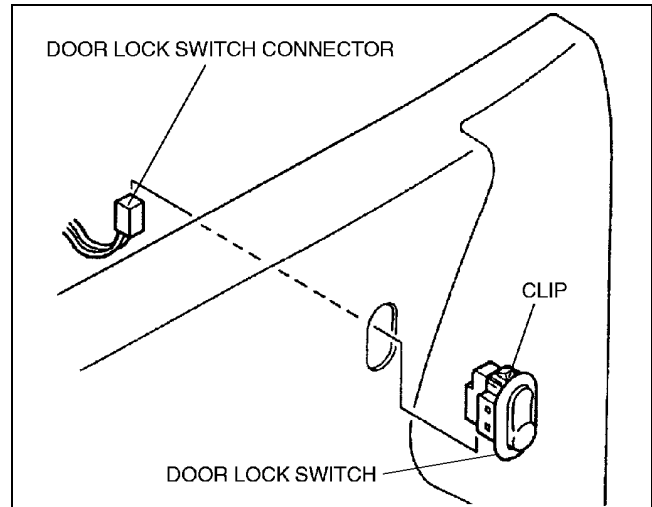
Y3U914WA3

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DOOR LOCK SWITCH REMOVAL/INSTALLATION

A3U091466210W02

1. Disconnect the negative battery cable.
2. Insert a tape-wrapped flathead screwdriver between the front door trim and the door lock switch and push the clip to remove the door lock switch.
3. Disconnect the door lock switch connector.
4. Install in the reverse order of removal.



Z3U0914W005

DOOR LOCK STRIKER REMOVAL/INSTALLATION

A3U091458361W01

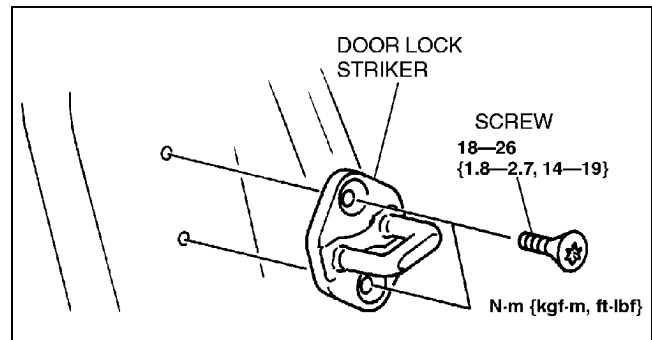
Warning

- Handling the side air bag sensor improperly can accidentally deploy the side air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before working around the B-pillar areas. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

Note

- The side air bag sensor is located in the B-pillar.

1. Disconnect the negative battery cable.
2. Remove the screws.
3. Remove the door lock striker.
4. Install in the reverse order of removal.

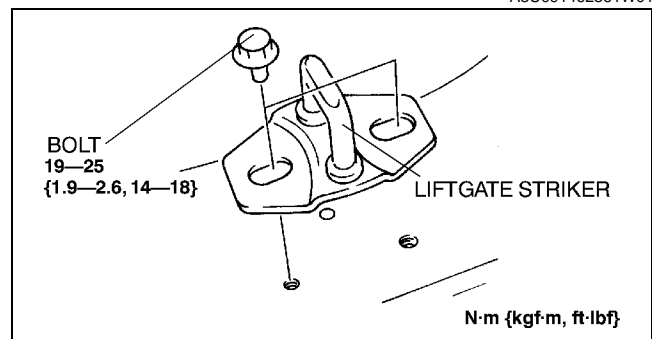


X3U914WA8

LIFTGATE LOCK STRIKER REMOVAL/INSTALLATION

A3U091462361W01

1. Remove the bolts.
2. Remove the liftgate striker.
3. Install in the reverse order of removal.

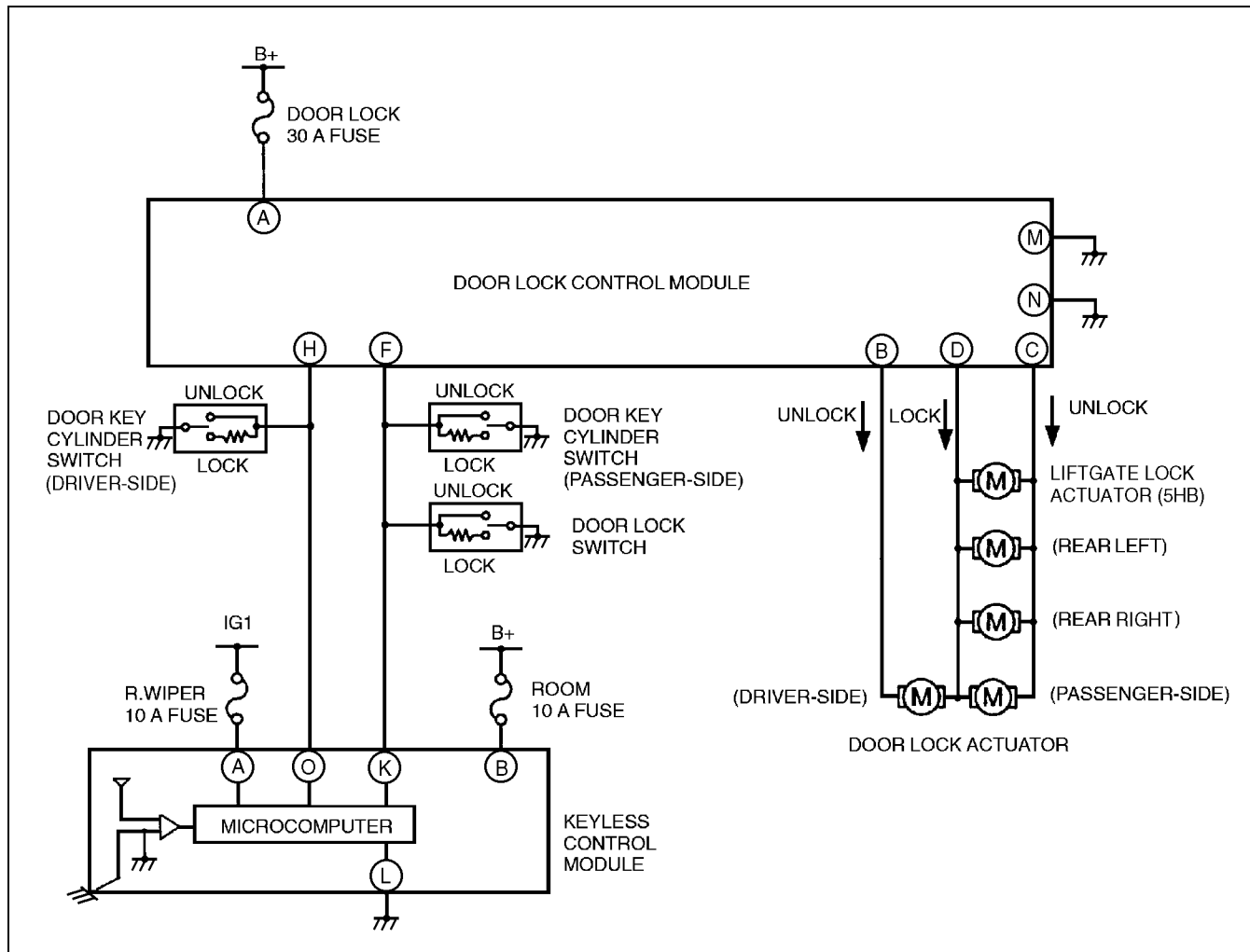


A3U0911W005

SECURITY AND LOCKS

POWER DOOR LOCK SYSTEM WIRING DIAGRAM

A3U09146600W02



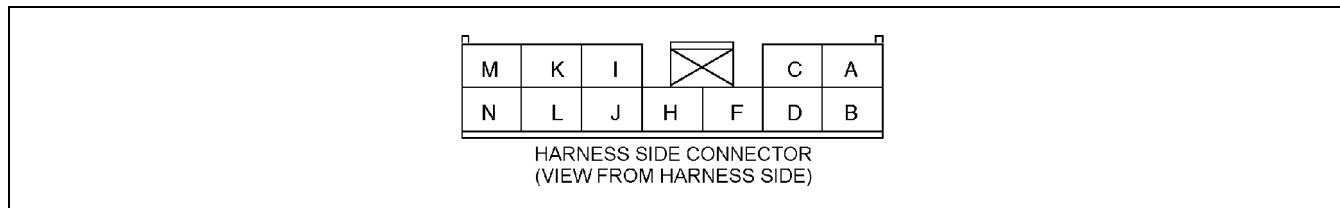
A3U0914W008

DOOR LOCK CONTROL MODULE INSPECTION

A3U091467830W01

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 inspecting for continuity at terminals F, H, M and N.
 - If not as specified, inspect the parts listed under "Action" and the related wiring harnesses.
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the door lock control module.

Terminal Voltage List (Reference)



Y3U914WA5

Terminal	Signal	Connected to	Test condition	Voltage (V)/continuity	Action
A	Power supply	DOOR LOCK 30 A fuse	Under any condition	B+	<ul style="list-style-type: none"> • Inspect DOOR LOCK 30 A fuse • Inspect related harness

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Terminal	Signal	Connected to	Test condition	Voltage (V)/continuity	Action
B	Unlock output	Driver-side door lock actuator	Driver-side door (door lock actuator) is unlocked	Below 1.0→B+→ Below 1.0	<ul style="list-style-type: none"> Inspect driver-side door lock actuator Inspect related harness
			Other	0	
C	Unlock output	Except driver-side door lock actuator	Except driver-side door (door lock actuator and liftgate lock actuator) is unlocked	Below 1.0→B+→Below 1.0	<ul style="list-style-type: none"> Inspect except driver-side door lock actuator Inspect related harness
			Other	Below 1.0	
D	Lock output	Door lock actuator	Door (door lock actuator) is locked	Below 1.0→B+→Below 1.0	<ul style="list-style-type: none"> Inspect door lock actuator Inspect related harness
			Other	Below 1.0	
F	Lock/unlock input	Passenger-side door key cylinder switch, door lock switch, and *keyless control module	Passenger-side door is locked with key	B+→5→B+ *5→2.5→5	<ul style="list-style-type: none"> Inspect passenger-side door key cylinder switch (See 09-14-6 DOOR KEY CYLINDER SWITCH INSPECTION) Inspect door lock switch (See 09-14-6 DOOR LOCK SWITCH INSPECTION) Inspect *keyless control module (See 09-14-11 KEYLESS CONTROL MODULE INSPECTION) Inspect related harness
			Passenger-side door is unlocked with key	B+→Below 1.0→B+ *5→Below 1.0→5	
			Door lock switch is locked	B+→5→B+ *5→2.5→5	
			Door lock switch is unlocked	B+→Below 1.0→B+ *5→Below 1.0→5	
			*Transmitter UNLOCK button is pressed twice within 5 seconds	5→Below 1.0→5	
			Other	B+	
				*5	
H	Unlock input	Driver-side door key cylinder switch, and *keyless control module	Driver-side door is locked with key	B+→5→B+ *5→2.5→5	<ul style="list-style-type: none"> Inspect driver-side door key cylinder switch (See 09-14-6 DOOR KEY CYLINDER SWITCH INSPECTION) Inspect *keyless control module (See 09-14-11 KEYLESS CONTROL MODULE INSPECTION) Inspect related harness
			Driver-side door is unlocked with key	B+→Below 1.0→B+ *5→Below 1.0→5	
			*Transmitter LOCK button is pressed	5→2.5→5	
			*Transmitter UNLOCK button is pressed once	5→Below 1.0→5	
			Other	B+	
				*5	
I	-	-	-	-	-
J	-	-	-	-	-
K	-	-	-	-	-
L	-	-	-	-	-
M	Signal ground	GND	Under any condition: inspect for continuity to ground	Yes	-
N	Power ground	GND	Under any condition: inspect for continuity to ground	Yes	-

* : Equipped with keyless entry system

SECURITY AND LOCKS

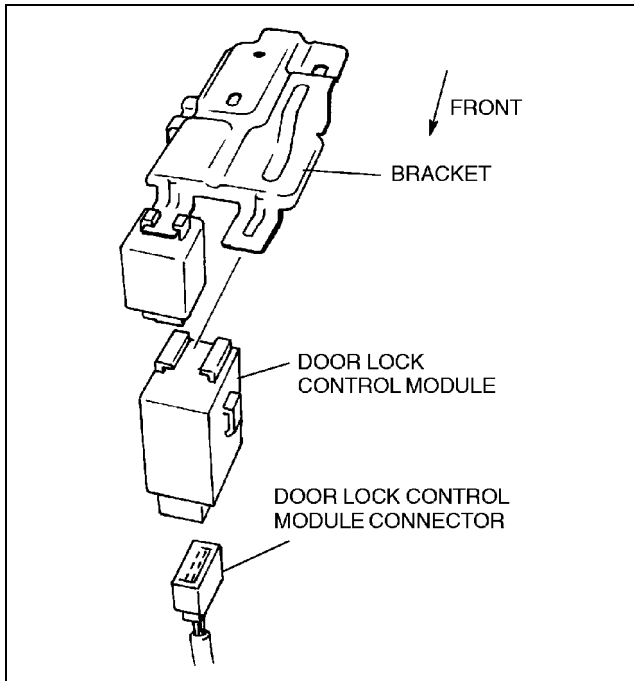
DOOR LOCK CONTROL MODULE REMOVAL/INSTALLATION

A3U091467830W02

Note

- Because the lock section of the module is damaged easily, do not remove the module from the bracket unless replacement is necessary. Always perform an inspection of the door lock control module before removal.

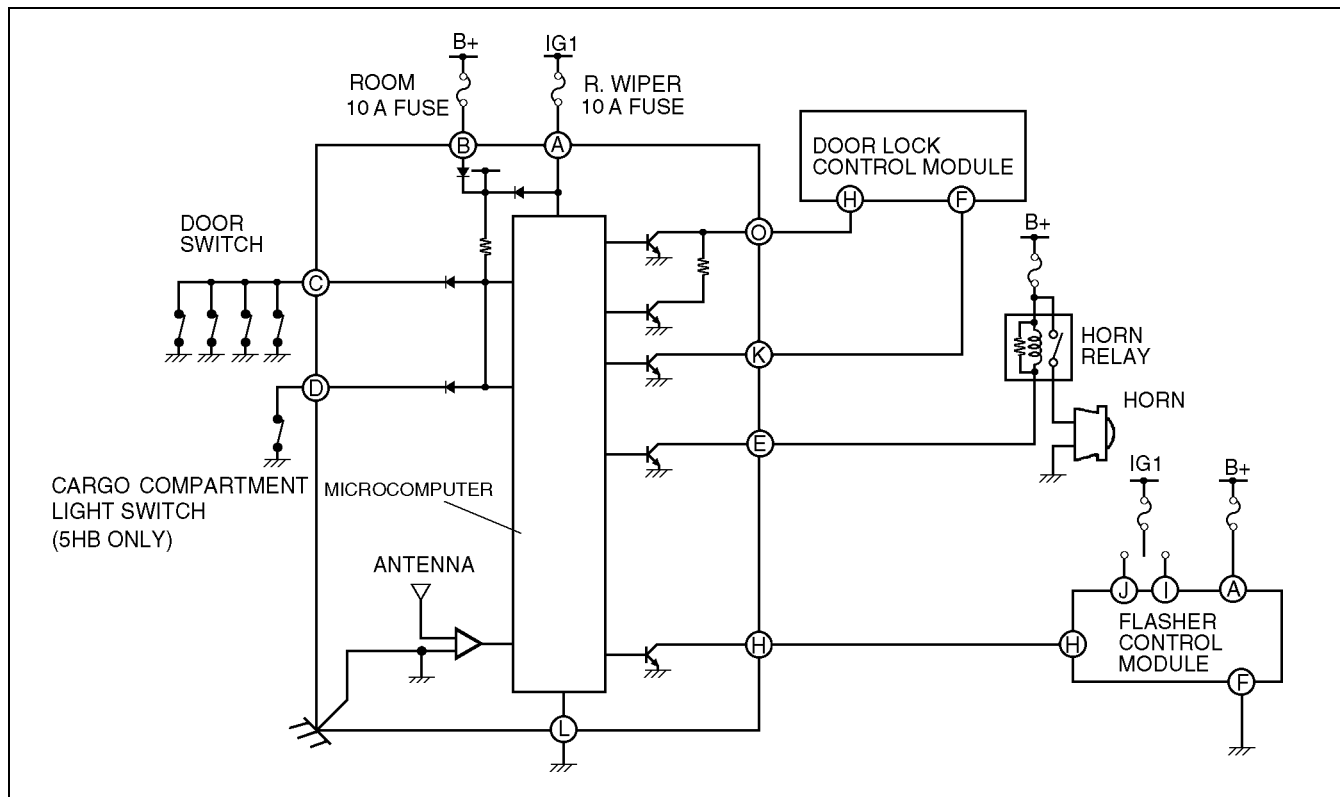
1. Disconnect the negative battery cable.
2. Remove the lower panel.
3. Remove the bracket.
4. Disconnect the door lock control module connector.
5. Remove the door lock control module by prying the lock section of the upper part with a flathead screwdriver.
6. Install in the reverse order of removal.



X3U914WB0

KEYLESS ENTRY SYSTEM WIRING DIAGRAM

A3U091469000W01



A3U0903W001

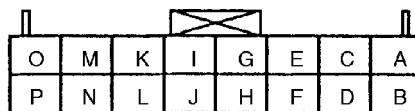
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KEYLESS CONTROL MODULE INSPECTION

A3U091467540W01

1. Pull out the keyless control module with the connector connected.
2. Measure the voltage at the keyless control module terminals (other than terminal L) as indicated below.
 - If not as specified, inspect the parts listed under "Action."
3. Disconnect the negative battery cable.
4. Disconnect the keyless control module connector and inspect for continuity between terminal L and bracket.
5. Inspect for continuity at terminal L as indicated below.
6. If the parts and wiring harnesses are okay but the system still does not work properly, perform the troubleshooting.

Terminal Voltage List (Reference)



HARNESS SIDE CONNECTOR
(VIEW FROM HARNESS SIDE)

Y3U914WA6

Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
A	IG1	R. WIPE 10 A fuse	Ignition switch is at ON position	B+	<ul style="list-style-type: none"> • Inspect R. WIPE 10 A fuse • Inspect related harness
			Ignition switch is at LOCK or ACC position	Below 1.0	
B	Power supply	ROOM 10 A fuse	Under any condition	B+	<ul style="list-style-type: none"> • Inspect ROOM 10 A fuse • Inspect related harness
C	Door open/ closed	Door switch	Any door is open (any door switch is on)	Below 1.0	<ul style="list-style-type: none"> • Inspect door switches • Inspect related harness
			All door are closed (door switches are off)	B+	
D	Liftgate open/ closed	Cargo compartment light switch	Liftgate is open (cargo compartment light switch is on)	Below 1.0	<ul style="list-style-type: none"> • Inspect cargo compartment light switch • Inspect related harness
			Liftgate is closed (cargo compartment light switch is off)	B+	
E	Horn	Horn relay	Transmitter panic button is pressed	Alternates between B+ and Below 1.0	<ul style="list-style-type: none"> • Inspect transmitter • Inspect horn relay • Inspect related harness
			Transmitter panic button is not pressed	B+	
F	-	-	-	-	-
G	-	-	-	-	-
H	Hazard	Flasher control module	Transmitter panic button is pressed	Alternates between B+ and Below 1.0	<ul style="list-style-type: none"> • Inspect flasher control module • Inspect related harness
			Transmitter LOCK button is pressed	B+→Below 1.0→B+	
			Transmitter UNLOCK button is pressed once	B+→Below 1.0→B+→Below 1.0→B+	
			No transmitter buttons are pressed	B+	
I	-	-	-	-	-
J	-	-	-	-	-
K	Unlock output	Door lock control module	Transmitter UNLOCK button is pressed twice within 5 seconds. (second value)	5→Below 1.0→5	<ul style="list-style-type: none"> • Inspect door lock control module • Inspect related harness
			Other	5	

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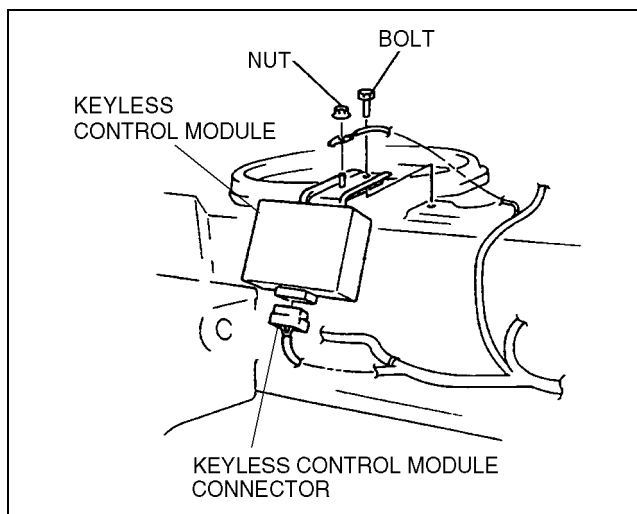
Terminal	Signal	Connected to	Test condition	Voltage (V)/ Continuity	Action
L	Ground	GND	Under any condition: inspect for continuity to ground	Yes	-
M	-	-	-	-	-
N	-	-	-	-	-
O	Lock/unlock output	Door lock control module	Transmitter LOCK button is pressed	5→2.5→5	<ul style="list-style-type: none"> • Inspect door lock control module • Inspect related harness
			Transmitter UNLOCK button is pressed once	5→Below 1.0→5	
			No transmitter buttons are pressed	5	
P	-	-	-	-	-

KEYLESS CONTROL MODULE REMOVAL/INSTALLATION

A3U091467540W02

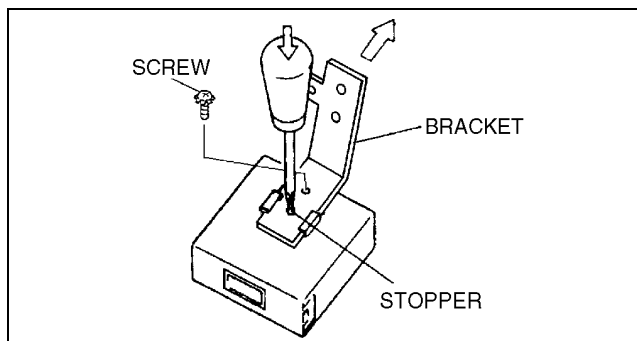
4SD

1. Disconnect the negative battery cable.
2. Remove the rear package trim.
3. Disconnect the keyless control module connector.
4. Remove the nut and bolt to remove the keyless control module and the bracket as a module.



Y3E7718W002

5. Remove the screw.
6. Push the stopper using a small driver, and remove the bracket.
7. Install in the reverse order of removal.

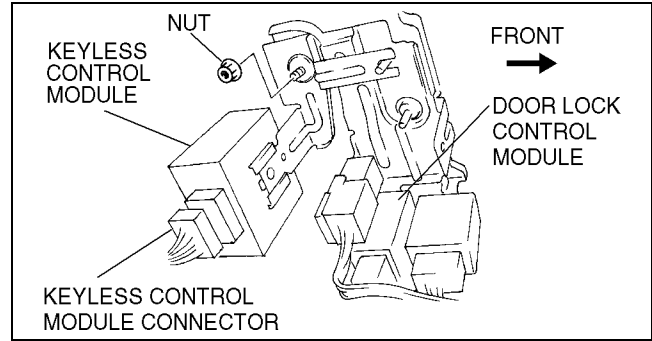


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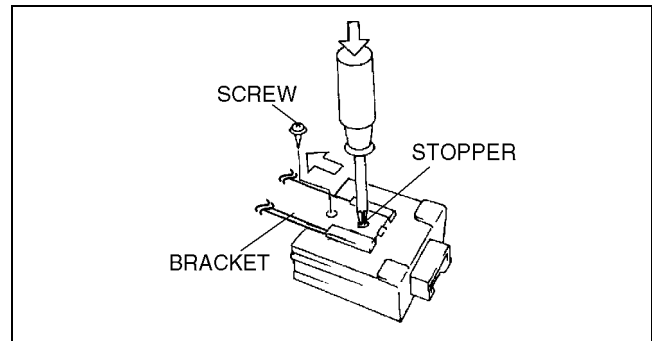
5HB

1. Disconnect the negative battery cable.
2. Disconnect the keyless control module connector. (under driver's side dash)
3. Remove the bolt to remove the keyless control module and the bracket as a module.



A3U0914W007

4. Remove the screw.
5. Push the stopper using a small driver, and remove the bracket.
6. Install in the reverse order of removal.



A3U0914W005

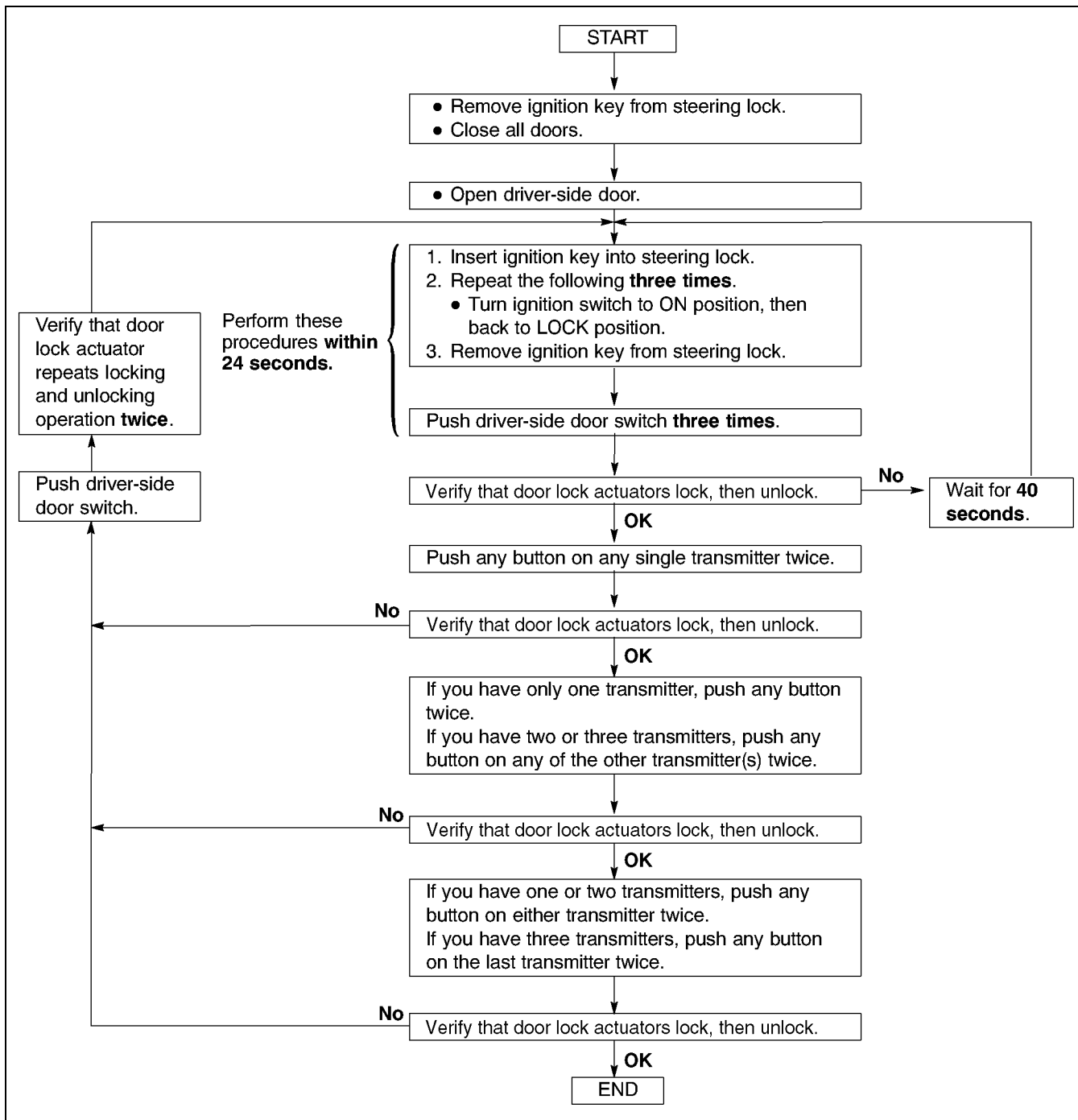
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KEYLESS CONTROL MODULE ID CODE CHANGE

A3U091467540W03

- When programming the ID code into a transmitter, verify that other transmitters are not being operated in the vicinity.
- Program the ID code as indicated in the procedure below.



YLE7718W010

SECURITY AND LOCKS

TRANSMITTER BATTERY INSPECTION

A3U091467543W01

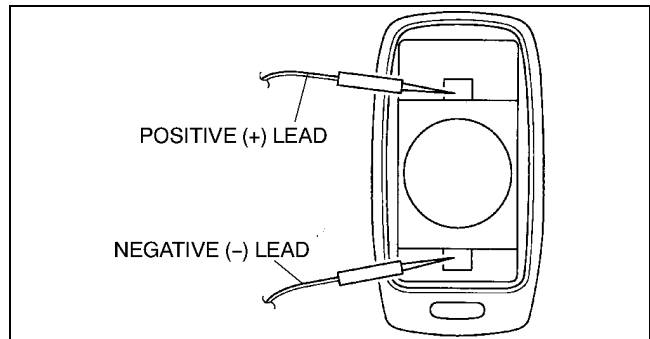
Caution

- Since the battery voltage does not drop fully if the button is pushed for only 4 seconds or less, it cannot be properly examined to see whether it is good or bad. Always push the button for 5 seconds.

Note

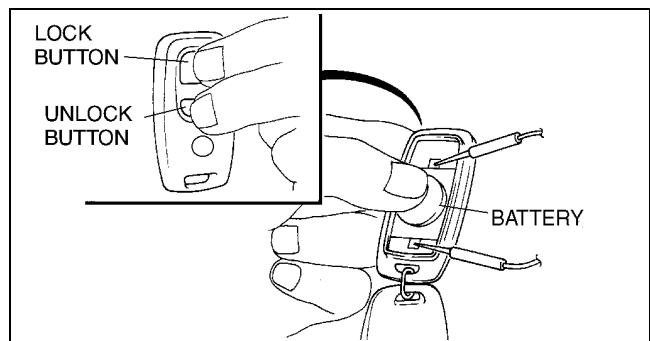
- Since a correct measurement cannot be obtained if the battery temperature is low, make sure the battery has been at **18 °C {64 °F} or more** for **at least 30 minutes** before reinspecting when a measurement value is under the standard voltage.

1. Remove the transmitter cover.
2. Apply the circuit tester leads to the positions as indicated in the figure.



YDE7718W003

3. While pressing the battery as shown in the figure, press the LOCK and UNLOCK buttons on the transmitter at the same time to start measurement of the voltage.
4. Release the buttons after **5 seconds**.
5. Verify that the minimum voltage is the standard voltage or more for **10 seconds** after starting measurement.
 - If the voltage is under the standard voltage, replace the battery.



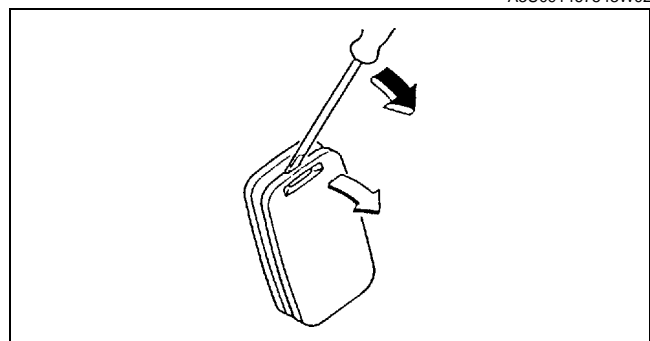
Z3U0914W006

Standard voltage
2.7 V

09-14

TRANSMITTER BATTERY REPLACEMENT

1. Insert a small flathead screwdriver into the slot and gently pry open the transmitter.



YMU914WAS

A3U091467543W02

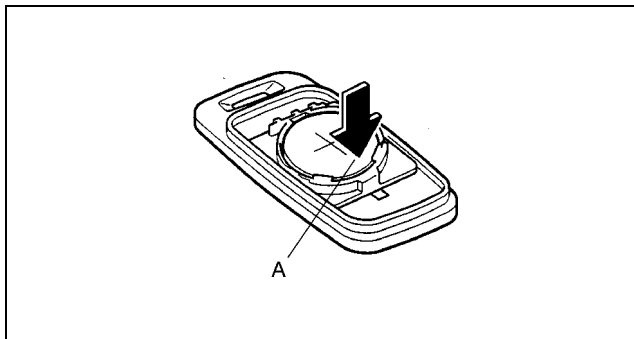
SECURITY AND LOCKS

2. Press the portion of the battery indicated by A and remove the battery.
3. Install a new battery (CR2025 or the equivalent) into the front portion of the holder with the positive pole (+) facing up. Press on the B portion of the battery to set the battery.
4. Align the front and back covers and snap the transmitter shut.

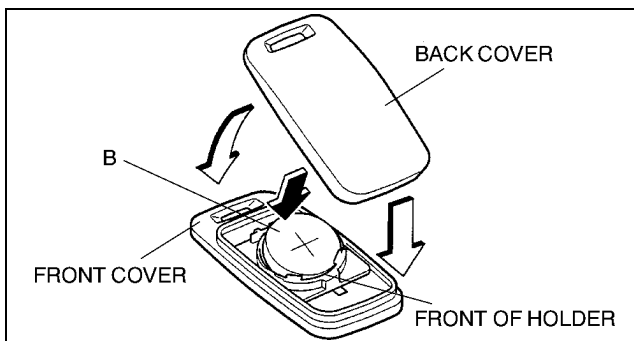
Battery specification
Lithium CR2025 × 1

Note

- The batteries will last about **2 years** when used **10 times** a day.



YDE7718W001

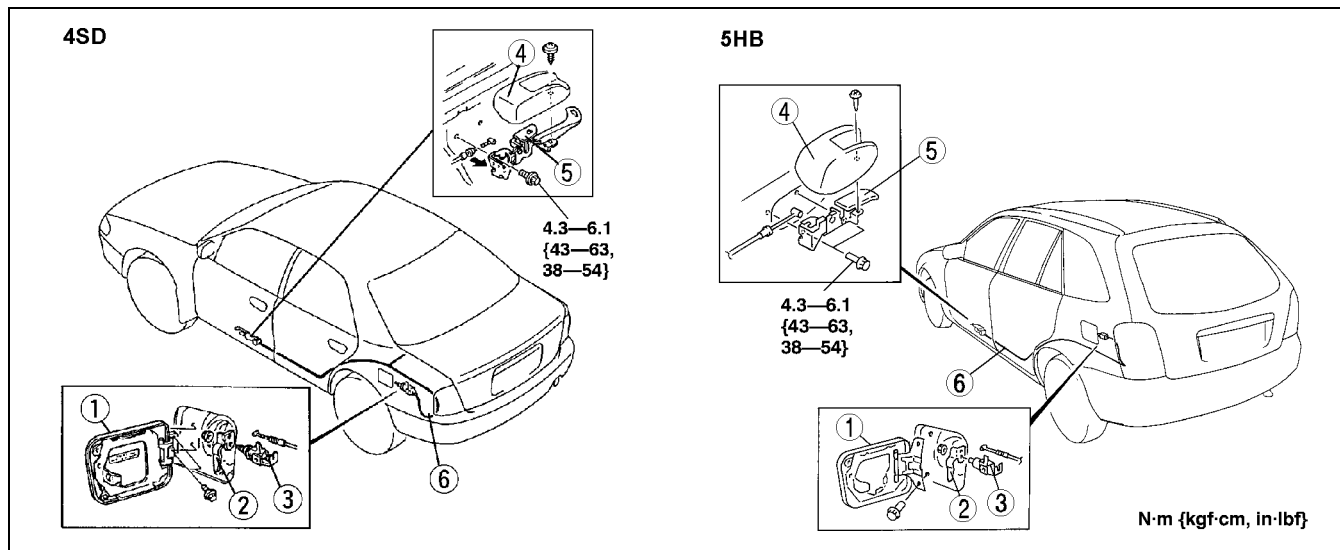


YDE7718W002

FUEL-FILLER LID AND OPENER REMOVAL/INSTALLATION

A3U091456890W01

1. To remove the fuel-filler lid opener, remove the left side trunk side trim.
2. To remove the fuel-filler lid opener cable, perform the following.
 - (1) Remove the driver's seat. (See 09-13-1 FRONT SEAT REMOVAL/INSTALLATION.)
 - (2) Remove the driver-side front and rear scuff plate.
 - (3) Remove the driver-side B-pillar lower trim.
 - (4) Remove the driver's seat belt lower anchor.
 - (5) Remove the driver-side tire house trim.
 - (6) Remove the driver-side trunk side trim.
 - (7) Turn the floor covering over.
3. Install in the reverse order of removal.
4. Remove in the order indicated in the table.
5. Adjust the fuel-filler lid. (See 09-10-1 FUEL-FILLER LID ADJUSTMENT.)



A3U0914W001

1	Fuel-filler lid
2	Lift spring
3	Fuel-filler lid opener

4	Cover
5	Fuel-filler lid opener lever
6	Fuel-filler lid opener cable

SECURITY AND LOCKS

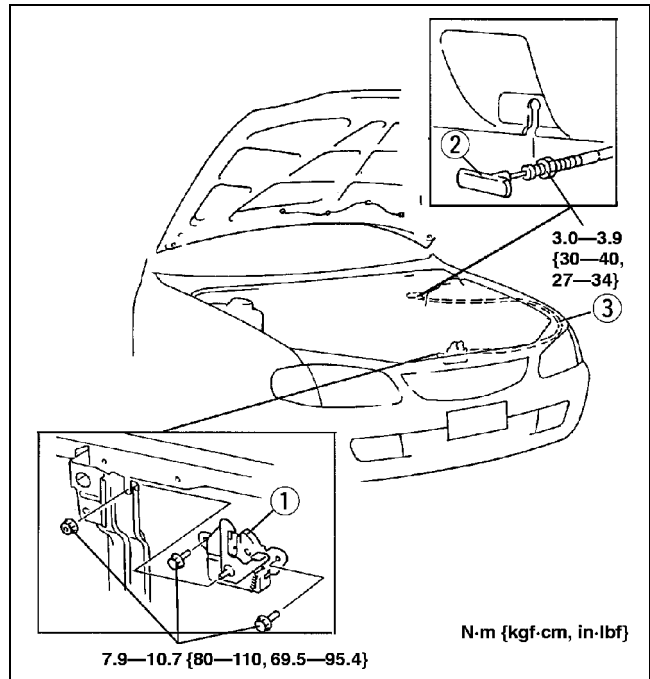
HOOD LOCK AND OPENER REMOVAL/INSTALLATION

1. Remove in the order indicated in the table.

1	Hood lock
2	Hood release lever
3	Hood release cable

2. Install in the reverse order of removal.

A3U091456620W01



X3U914WB2

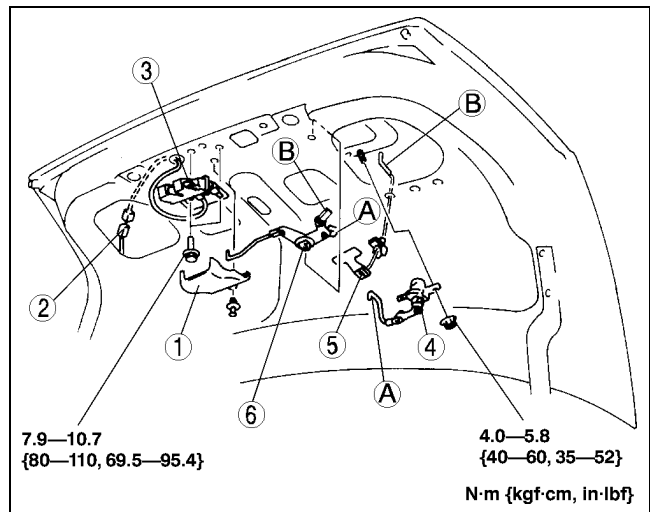
TRUNK LID LOCK REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Cover
2	Connector
3	Trunk lid lock
4	Trunk lid lock cylinder
5	Internal trunk lid release handle (See 09-14-17 Internal Trunk Lid Release Handle Installation Note.)
6	Rod

3. Install in the reverse order of removal.

A3U091456820W01



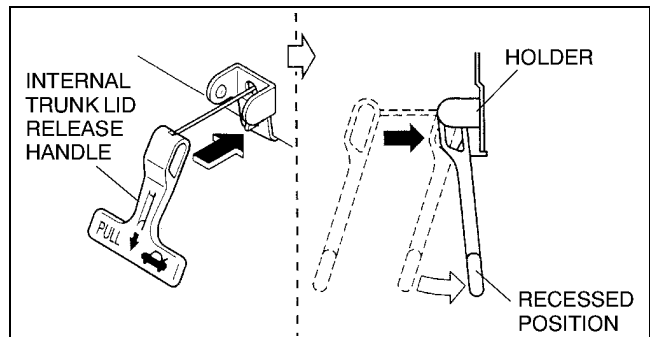
Z3U0914W008

Internal Trunk Lid Release Handle Installation Note

Caution

- Always keep the handle firmly attached to the holder and in the recessed position. Not securing the handle this way could allow it to snag luggage in the compartment and open the trunk lid.

1. After installation of the internal trunk lid release handle, pull the handle forward to verify the handle and rod are securely installed.
2. Attach the handle to the holder and in the recessed position.



Z3U0914W009

SECURITY AND LOCKS

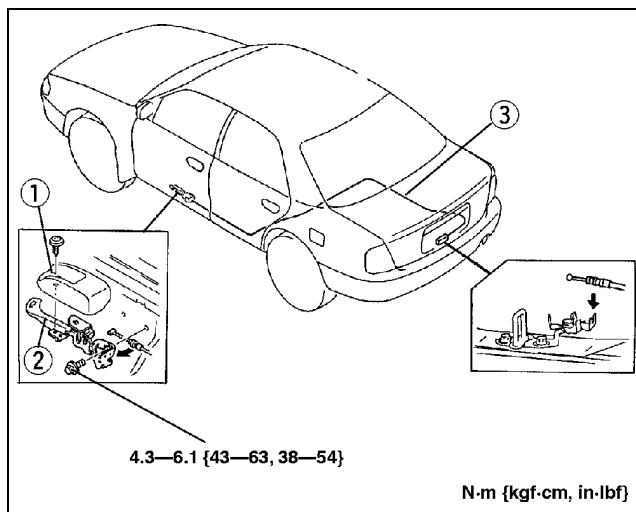
TRUNK LID OPENER REMOVAL/INSTALLATION

A3U091456822W01

- To remove the trunk lid opener cable, perform the following.
 - Remove the driver's seat. (See 09-13-1 FRONT SEAT REMOVAL/INSTALLATION.)
 - Remove the driver-side front and rear scuff plate.
 - Remove the driver-side B-pillar lower trim. (See 09-17-10 B-PILLAR LOWER TRIM REMOVAL.) (See 09-17-11 B-PILLAR LOWER TRIM INSTALLATION.)
 - Remove the driver's seat belt lower anchor.
 - Remove the passenger's side tire house trim. (See 09-17-13 TIRE HOUSE TRIM REMOVAL/INSTALLATION.)
 - Remove the trunk end trim. (See 09-17-14 TRUNK END TRIM REMOVAL/INSTALLATION.)
 - Turn the floor covering over.
- Remove in the order indicated in the table.

1	Cover
2	Trunk lid opener lever
3	Trunk lid opener cable

- Install in the reverse order of removal.
- Adjust the trunk lid opener cable. (See 09-14-18 TRUNK LID OPENER CABLE ADJUSTMENT.)



X3U914WC1

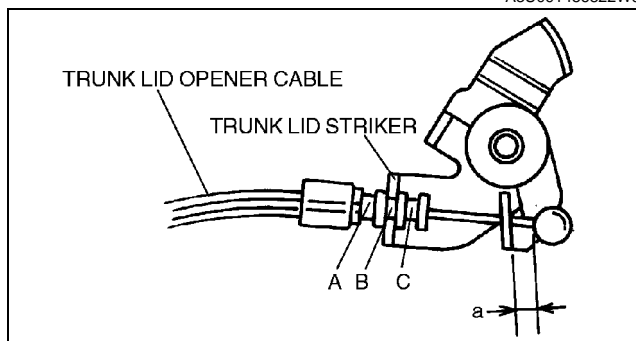
TRUNK LID OPENER CABLE ADJUSTMENT

A3U091456822W02

- Install the trunk lid striker to one of the three places (A, B, and C) so that the play of the trunk lid opener cable is within the specified clearance.
 - If not as specified, move to the next location.

Clearance

a: 0.3—4.5 mm {0.02—0.17 in}

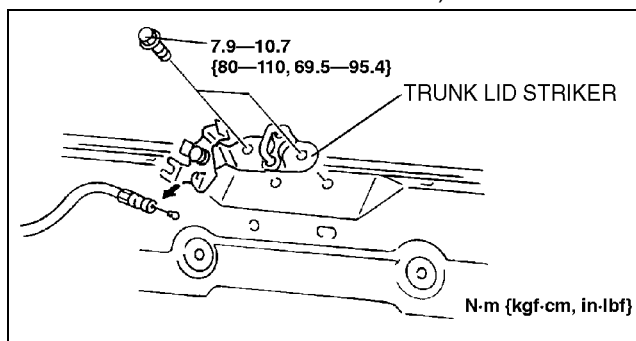


X3U914WC2

TRUNK LID STRIKER REMOVAL/INSTALLATION

A3U091456840W01

- Remove the trunk end trim. (See 09-17-14 TRUNK END TRIM REMOVAL/INSTALLATION.)
- Remove the bolts, then remove the trunk lid striker.
- Install in the reverse order of removal.
- Adjust the trunk lid opener cable. (See 09-14-18 TRUNK LID OPENER CABLE ADJUSTMENT.)



Z3U0914W004