




# GENUINE FRONT FOG LAMP HARNESS


## INSTALLATION INSTRUCTIONS

Thank you for purchasing a genuine Mazda accessory.  
Before removal and installation, be sure to thoroughly read these instructions.  
Please read the contents of this booklet in order to properly install and use the front fog lamp harness. Your safety depends on it.  
Keep these instructions with your vehicle records for future reference.

### **WARNING**

- There are several  **WARNING** and  **CAUTION** sections in this booklet concerning safely when installing or removing the front fog lamp harness. Always read and follow them in order to prevent injuries, accidents, and possible damage to the vehicle.

 **WARNING:** Indicates a situation in which serious injury or death could result if the warning is ignored.

 **CAUTION:** Indicates a situation in which bodily injury or damage to the vehicle could result if the caution is ignored.

- Do not modify the front fog lamp harness.
- Do not install the front fog lamp harness in any way other than described in the following instructions.
- If in any doubt, please ask your Mazda dealer to install the accessory in order to prevent errors in installation.
- If you have any questions about the use of the accessory, ask your Mazda dealer for proper advice before using it.
- Mazda and its suppliers are not responsible for injuries, accidents, and damage to persons and property that arise from the failure of the dealer or installer to follow these instructions.
- To ensure safety and reliability of the work, installation, removal and disposal work must be carried out by an Authorized Mazda Dealership.
- Be careful not to lose removed parts, and be sure that they are kept free from scratches, grease or other dirt.

**PART NAME: FRONT FOG LAMP HARNESS**  
**VEHICLE: Mazda CX-9**  
**PART NUMBER: TD11 V7 235**

### NOTE

#### To the dealer

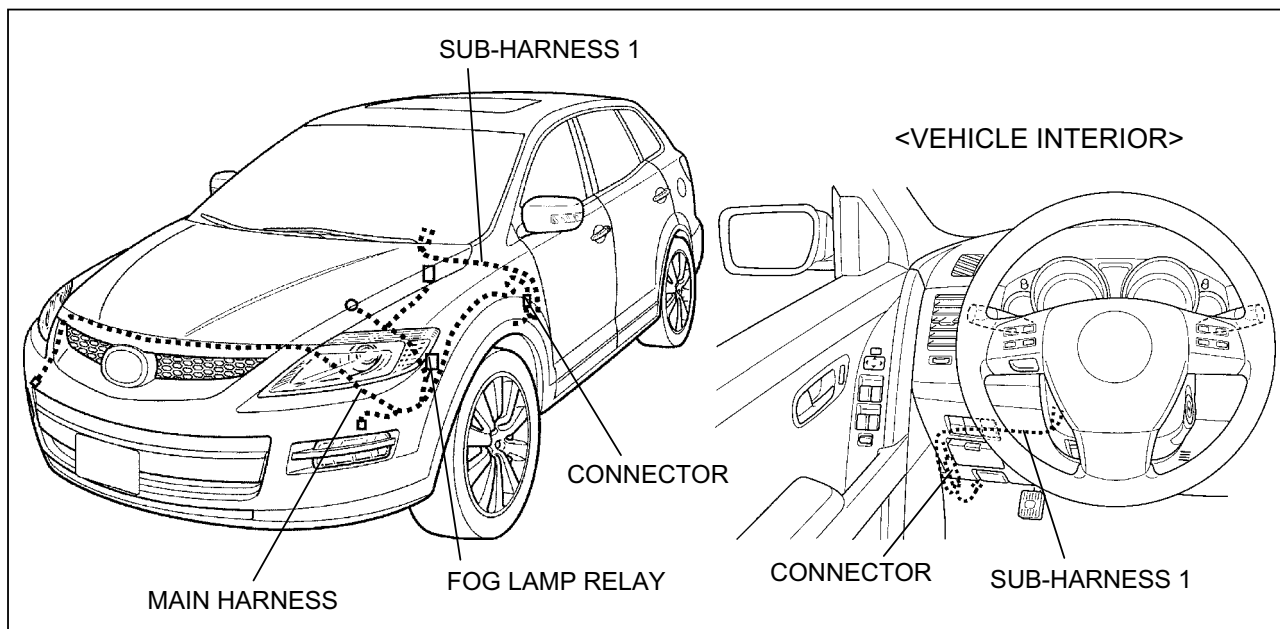
- Please turn over these instructions to the customer after installation.

#### To the customer

- Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.
- Should the vehicle or this accessory be resold, always leave these instructions with it for the next owner.

# 1. PARTS

## ▼ Installation view



## ▼ Parts list

### Note

- Verify that the kit includes all the following parts and that the parts are not dirty, scratched, or damaged.

Part	Part name / number	Qty.	Part	Part name / number	Qty.	Part	Part name / number	Qty.
	Main harness (TD11 V7 23GW)	1		Sub-harness 1	1		Sub-harness 2 (Blue/yellow)	1
	Sub-harness 3 (Black/red)	1		Tie wrap	28		Mount base	5
	Fog lamp relay (J141 67 730)	1		Fog lamp relay bracket	1		Urethane tape	3
	Clip A (G18K 51 SJ3)	7		Clip B (L208 51 SJ3A)	2		Electro-tap	1
	Installation instructions	1						

For fog lamp installation, the following separately-sold parts are necessary.

Fog lamp hole cover : TD11 V7 247F

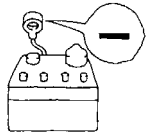


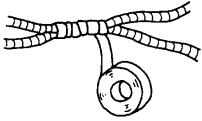
Fog lamp : TD11 V7 220F

## 2. BEFORE INSTALLATION

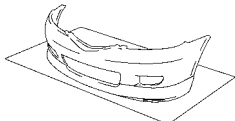

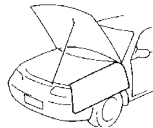
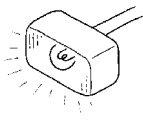
### ■ REQUIRED TOOLS

★Phillips screwdriver (Stubby, Long) ★Torque wrench ★Fastener remover ★Mat ★Flathead screwdriver

### ⚠ WARNING

<p>When the negative battery cable is connected during operation, it may cause electric shock or other personal injuries. Disconnect the negative battery cable before removal/installation.</p>	<p>When connecting/disconnecting connectors, grasp the connectors, not the wires. Otherwise a short, an accident from poor contact or fire may occur.</p>	<p>Do not pull the harness with excessive force. Doing so can cause a breakage or a short-related accident, as well as an electrical short or fire.</p>	<p>Secure the harness with the band (part included) so it doesn't dangle. If not, it may cause a short, accident, or fire.</p>
			

### ⚠ CAUTION

<p>Put the removed parts and the parts in the kit on the protective sheet to prevent scratches.</p>	<p>Using improper tools may cause damage and or broken parts. Use the correct tool for the job.</p>	<p>Be sure to cover the vehicle body with protectors or mats to prevent stains, scratches and damage when removing/installing the vehicle parts.</p>	<p>Using nonstandardized bulbs can cause damage. Verify that the head light or fog lamp bulbs are standardized.</p>
			

### ⚠ WARNING

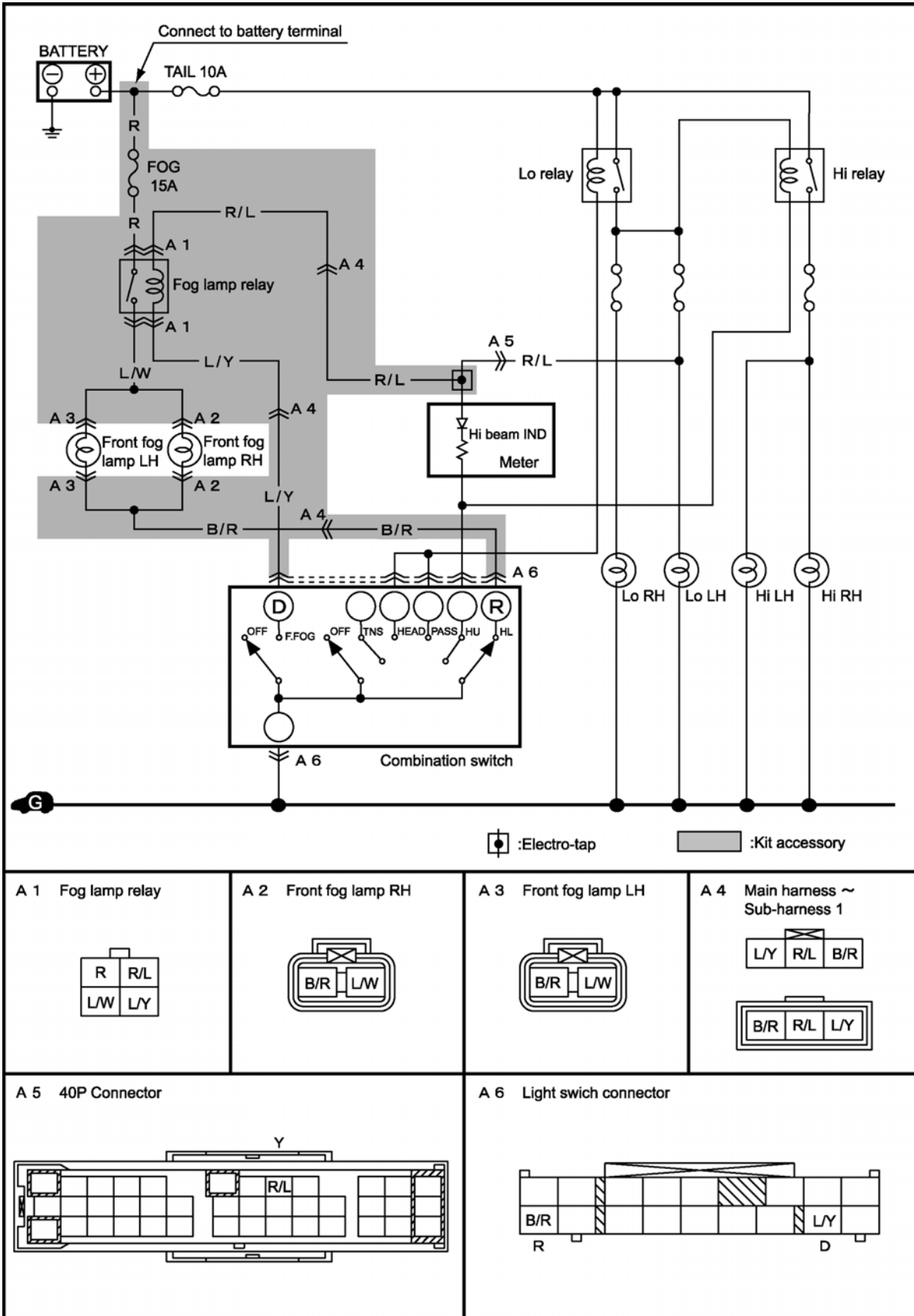
- When removing/installing the parts, park the vehicle on level ground and apply the side brake securely. Be sure to turn the ignition switch off, otherwise the vehicle can move, causing personal injury or vehicle damage.

### Note

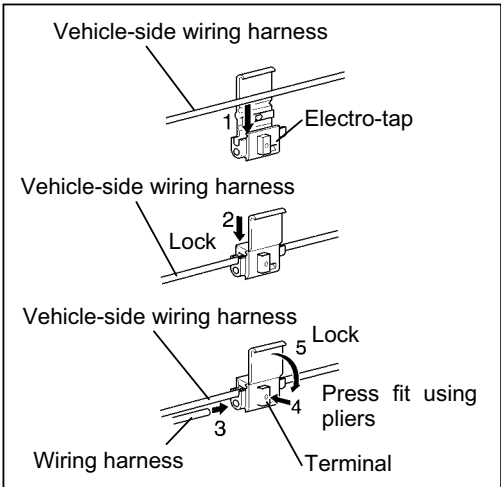
- When the negative battery cable is removed, the clock, radio, trip meters and other memories will be erased. Before performing work, record the content of the memory.
- Refer to the Workshop Manual for removal and installation of vehicle parts. Not following the procedures for removal/installation in the Workshop Manual could result in an accident or vehicle malfunction.

### 3. CONNECTION DIAGRAM

Figure shows connector viewed from harness side.



# 4. CONNECTION USING ELECTRO-TAP

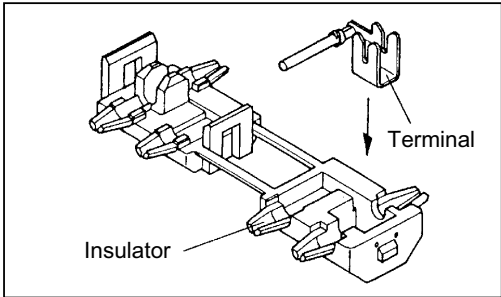


- Branching connection using electro-tap (1)
1. Pass the vehicle-side wiring harness through the electro-tap.
  2. Fold the electro-tap in the direction of the arrow and lock it.

**CAUTION**

- Lock the electro-tap locking area firmly until a click sound is heard.

3. Insert the wiring harness into the electro-tap until it contacts the end.
4. Press fit the electro-tap terminal using pliers.
5. Fold the electro-tap in the direction of the arrow and lock it.

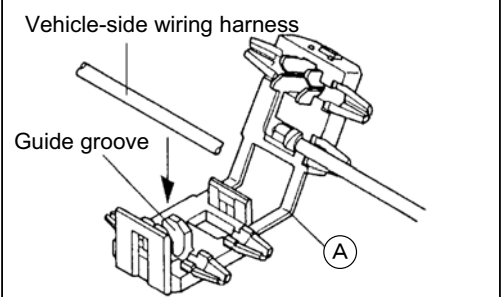


## Branching connection using electro-tap (2)

**CAUTION**

- The terminal is attached to the insulator. However, if it is removed from the insulator, insert the terminal as shown in the figure and press it in until it is secured completely.

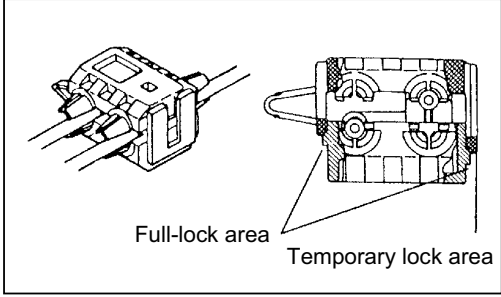
1. Fit the vehicle-side wiring harness which is to be branched into the guide groove.
2. Fold it with 'A' as a point of support as shown in the figure.

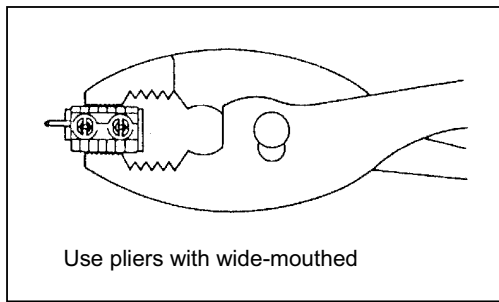


3. Temporarily lock the electro-tap.

**CAUTION**

- The temporary lock area is on one side only. Leave the electro-tap temporarily locked, not fully locked.

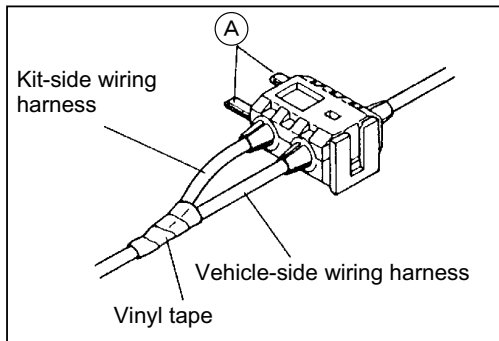




- Pinch the center of the electro-tap with all the surfaces of the pliers tips so that the force is applied on both left and right sides evenly, then press it until the full-lock area on both sides locks completely.

**⚠ CAUTION**

- When pressing, listen for a click sound from both the left and right full-lock areas.



**Notice when using electro-taps**

- Even if parts A are broken, it will not affect the performance and the electro-tap can be used.
- When removing this kit, cut the kit-side wiring harness at 30 mm from the electro-tap with the electro-tap still installed, and wrap the wiring harness to the vehicle-side wiring harness with vinyl tape to insulate.

**⚠ CAUTION**

- Do not reuse an electro-tap if it has been used once.

## 5. PART REMOVAL

**⚠ CAUTION**

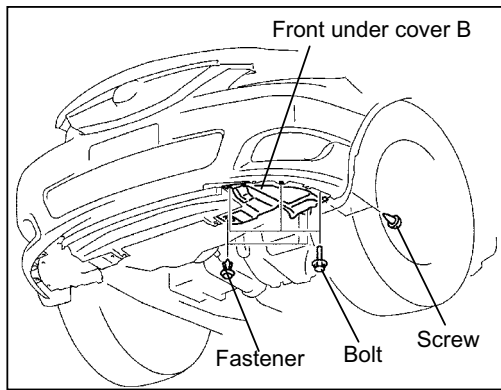
- Be careful not to damage or lose any parts removed from the vehicle since they will be reused.

**Negative battery cable disconnection**

- Disconnect the negative battery cable and wrap tape around it to insulate.

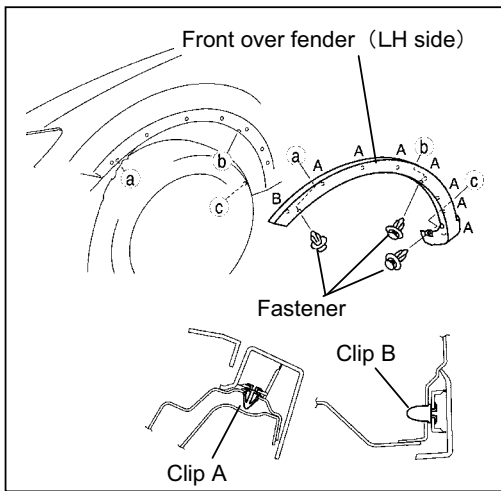
**⚠ CAUTION**

- When the negative battery cable is connected during operation, it may cause electric shock or other personal injuries. Disconnect the negative battery cable before removal/installation.



### Front under cover B removal (left/right)

1. Remove the screws (2 each side).
2. Remove the bolts (3 each side).
3. Remove the fasteners (2 each side).
4. Remove the front under cover B.

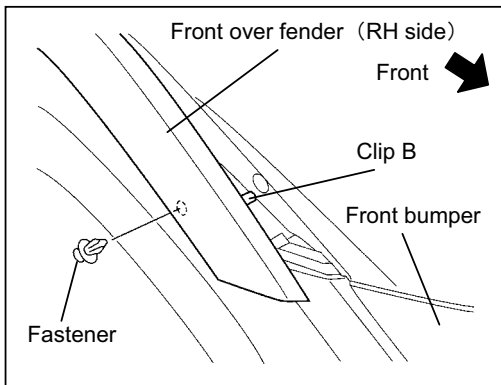


### Front bumper removal

1. Remove the fasteners (3). (LH side)
2. Remove the clips A (7), clip B (1). (LH side)
3. Remove the front over fender. (LH side)

#### ⚠ CAUTION

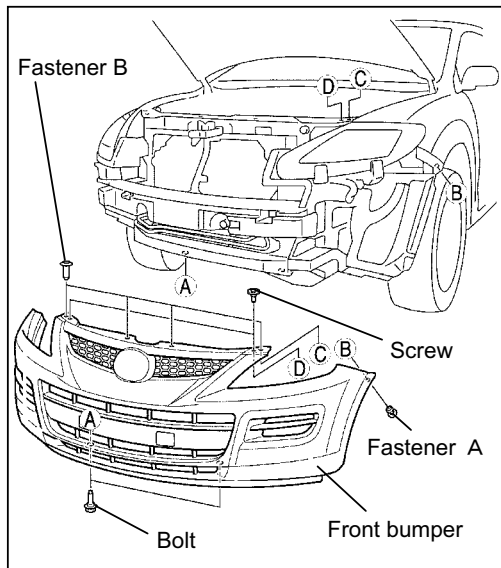
- The clip A, B cannot be reused. Use the clip included with this kit.



4. Remove the fastener (1 location) of the front over fender (RH) end.
5. Disengage the clip B (1 location) of the front over fender (RH) end.

#### ⚠ CAUTION

- The clip B cannot be reused. Use the clip included with this kit.



6. Remove bolts (2).

**Tightening torque:**

**6.9—9.8 N·m {70.3—99.9 kgf·cm, 61.1—86.7 in·lbf}**

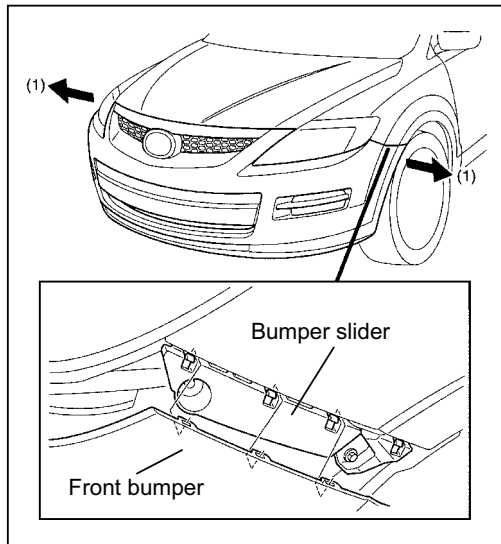
7. Remove fastener A (1 each side).

8. Remove fasteners B (4).

9. Remove screws B (2).

**Tightening torque:**

**6.9—9.8 N·m {70.3—99.9 kgf·cm, 61.1—86.7 in·lbf}**

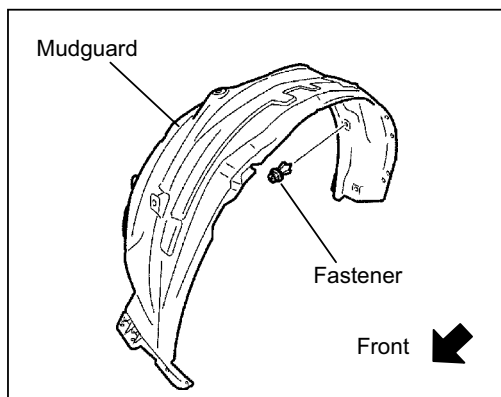


10. Pull in the front bumper ends (wheel arch) outward (1) to disengage from the bumper slider.

**⚠ CAUTION**

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

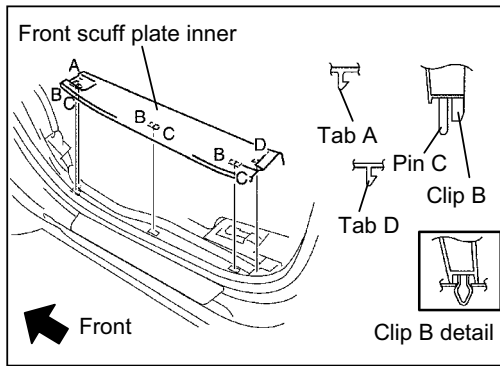
11. Remove the front bumper from the body.



**Mudguard (driver's side) removal**

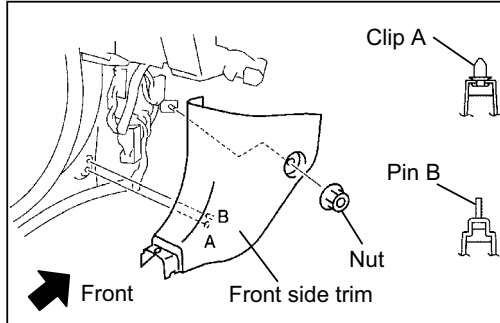
1. Remove the fasteners (10).

2. Remove the mudguard.



### Front scuff plate inner (driver's side) removal

1. Pull the front scuff plate inner upward while detaching tab A, detach clips B, pins C and tab D, from the body, and then remove the front scuff plate inner.



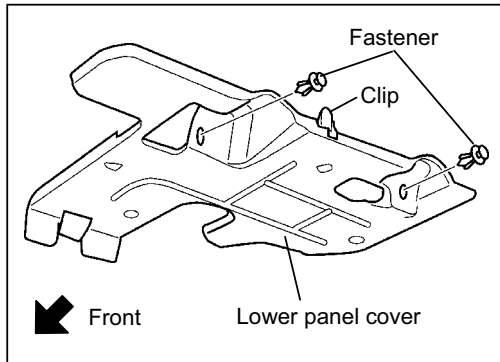
### Front side trim (driver's side) removal

1. Remove the nut.

**CAUTION**

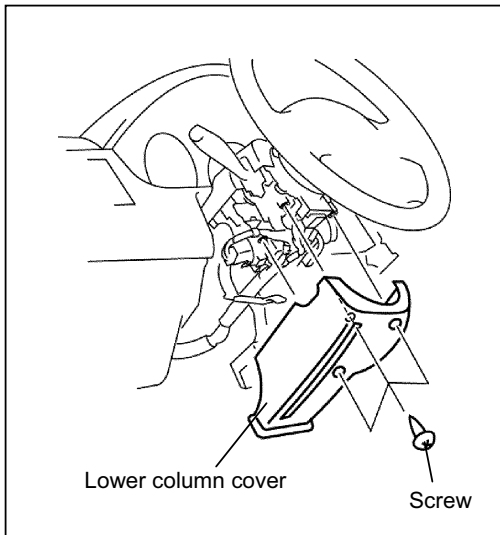
- Be careful not to tear the seaming welt when pulling it out.

2. Pull the front side trim upward, then detach clip A, pin B.



### Lower panel cover (driver's side) removal

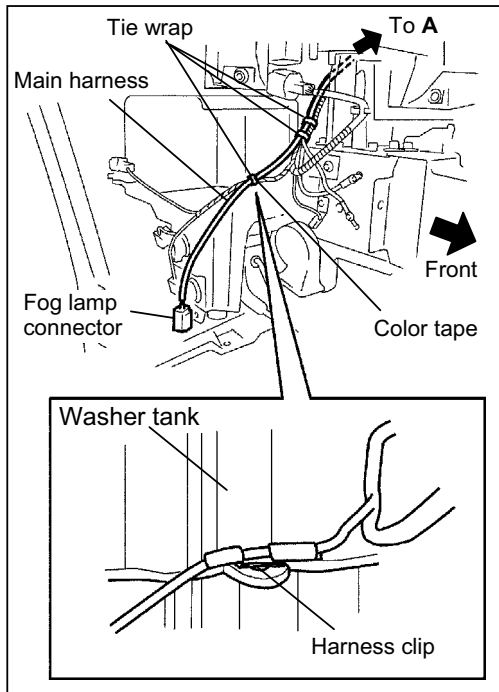
1. Remove the fasteners (2).
2. Pull the lower panel cover outward and detach clip.



### Column cover removal

1. Remove the screws (3).
2. Remove the lower column cover.

## 6. FRONT FOG LAMP HARNESS INSTALLATION

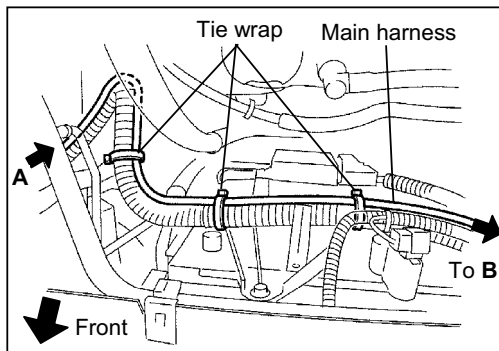


<Vehicle exterior>

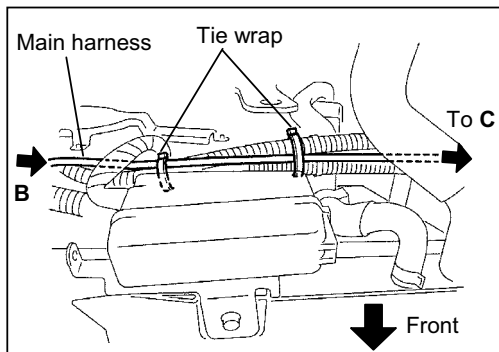
1. Secure the fog lamp connector (RH) side of the main harness to the vehicle wiring harness according to the dimensions shown in the figure using tie wraps.

### ⚠ CAUTION

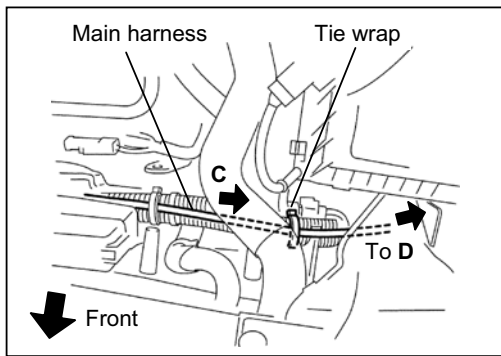
- Align the marked (colored tape) area of the main harness with the vehicle wiring harness clip and secure it using tie wraps.



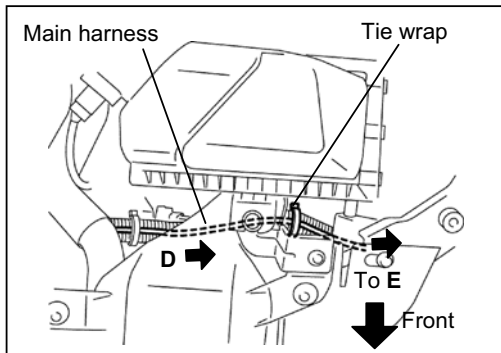
2. Route the main harness to the vehicle wiring harness and secure it using tie wraps.



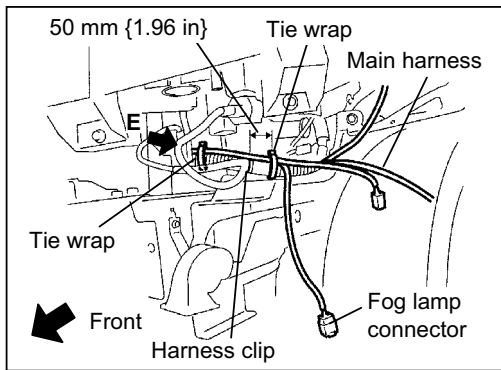
3. Route the main harness to the vehicle wiring harness and secure it using tie wraps.



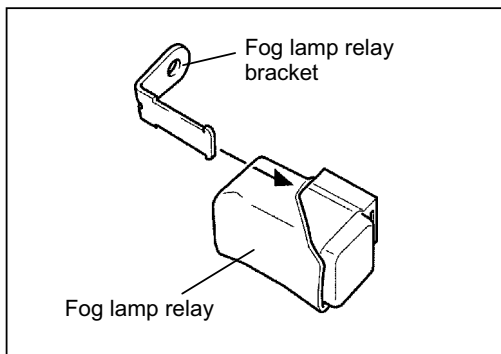
4. Route the main harness to the vehicle wiring harness and secure it using tie wraps.



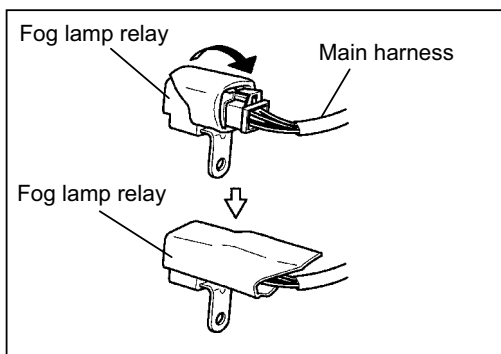
5. Route the main harness to the vehicle wiring harness and secure it using tie wraps.



6. Route the main harness to the vehicle wiring harness and secure it using tie wraps.

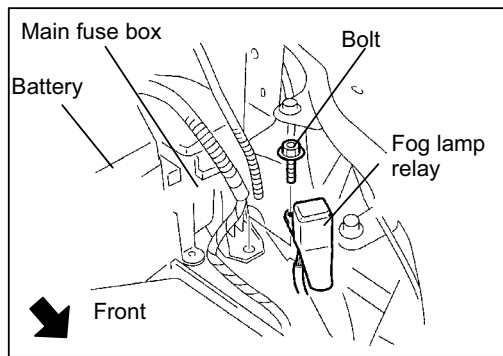


7. Install the fog lamp bracket to the fog lamp relay.

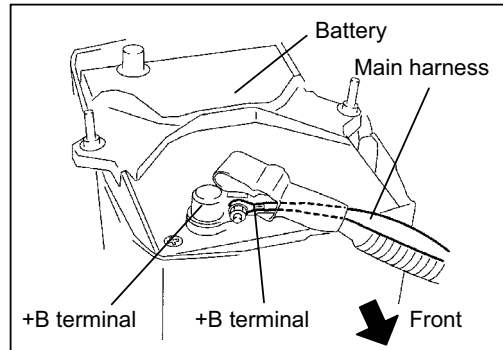


8. Connect the main harness 4-pin connector to the fog lamp relay.

9. Bend back the waterproof rubber of the fog lamp relay and lengthen it.



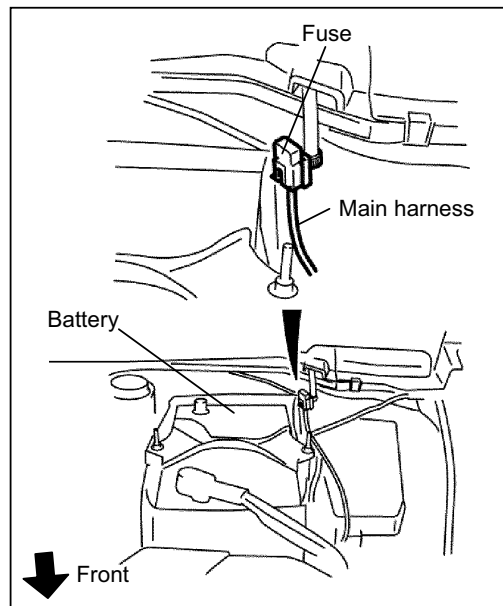
10. Temporarily remove the main fuse box bolt and tighten it together with the fog lamp relay.



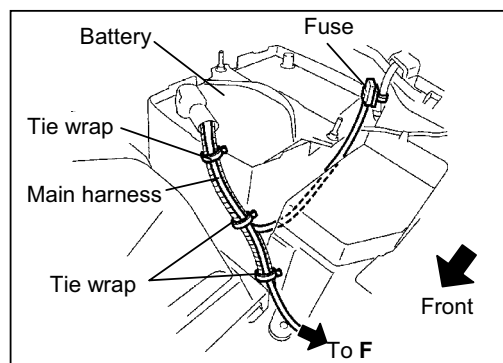
11. Tighten together the main harness terminal +B to the battery terminal +B nut.

**Nut tightening torque:**

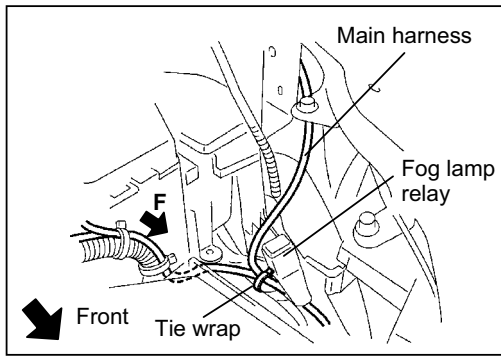
**2.4 – 4.9 N·m {29.6 – 49.9 kgf·cm, 25.7 – 43.3 in·lbf }**



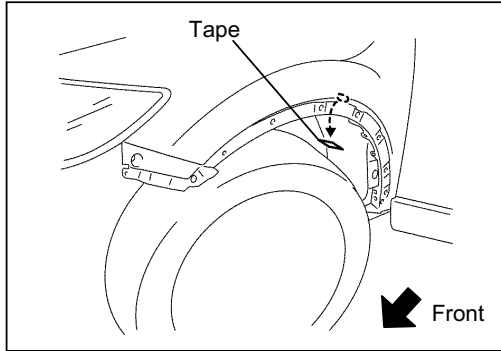
12. Secure the main harness fuse to the vehicle wiring harness behind the battery using a tie wrap.



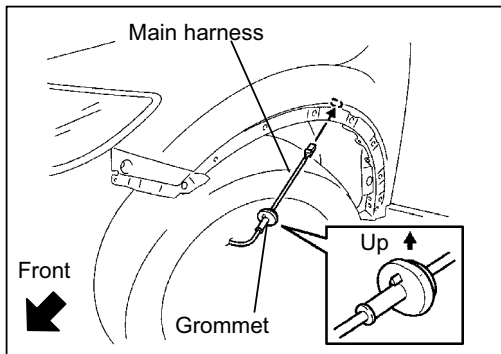
13. Route the main harness to the vehicle wiring harness and secure it using tie wraps.



14. Route the main harness to the vehicle wiring harness and secure it using a tie wrap.



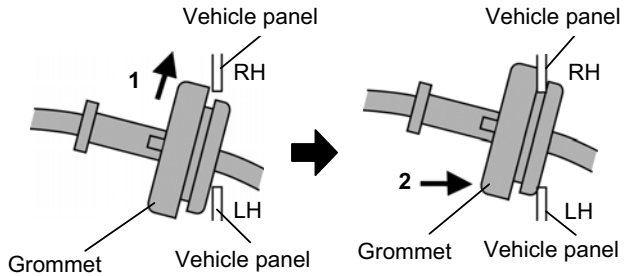
16. Remove the tape affixed to the grommet installation position behind the wheel house.



17. Route the main harness from the wheel house through the inside of the vehicle and install the grommet.

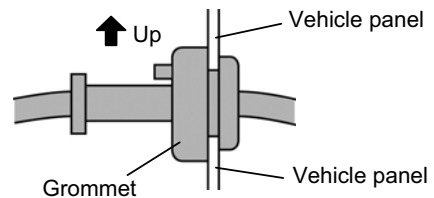
**Note**

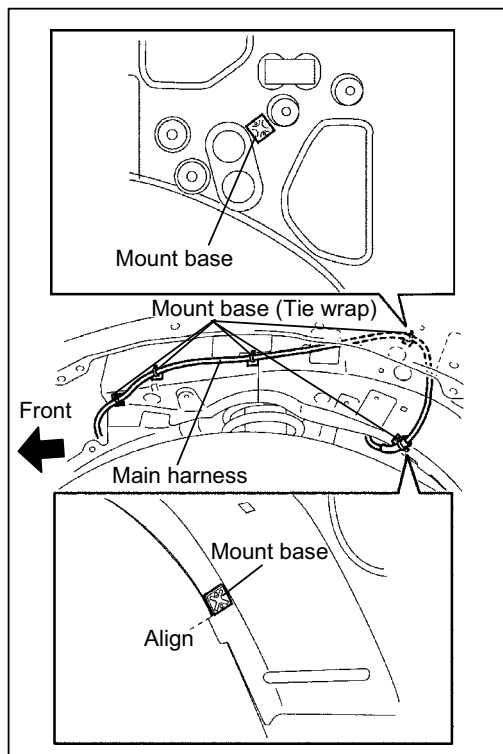
- First tilt the grommet left and right and insert the harness, then extend it further into the vehicle.



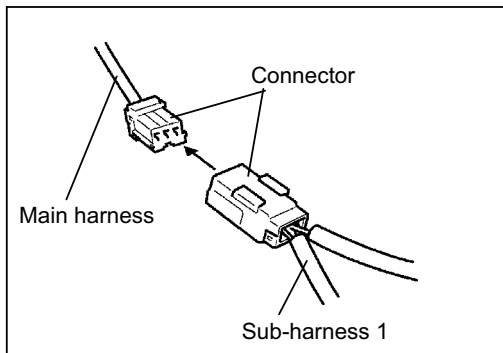
**CAUTION**

- Be careful with the up/down orientation of the grommet.
- Install the grommet securely.
- Verify that there is no gap around the circumference of the installed grommet.



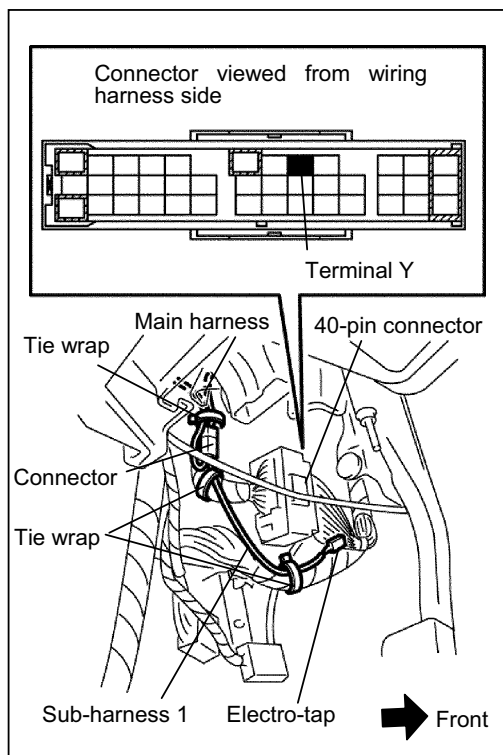


18. Clean the adhesion area with ISP alcohol.
19. Affix the mount bases to the wheel house and secure the main harness using tie wraps.



<Vehicle interior>

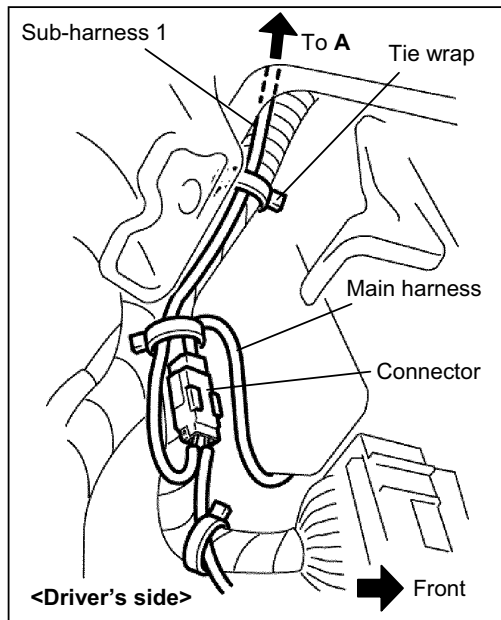
1. Peel back the installation and remove the main harness connector.
2. Connect the main harness connector routed through the vehicle interior and sub-harness 1 connector.



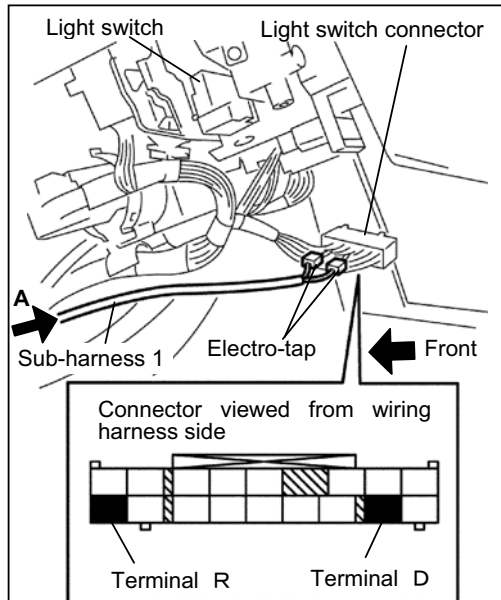
3. Branch connect sub-harness 1 (red/blue) to the 40-pin connector (terminal Y: red/blue) inside of the front side trim (driver's side) using an electro-tap.
4. Secure the main harness and sub-harness 1 to the vehicle wiring harness using tie wraps.

**CAUTION**

- Refer to the [Connection using electro-tap] for the electro-tap connection.
- Wrap the electro-tap area using urethane tape.



5. Secure sub-harness 1 to the vehicle wiring harness using a tie wrap.

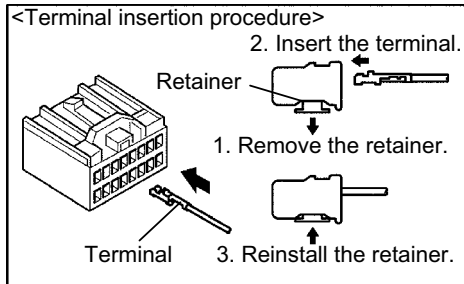


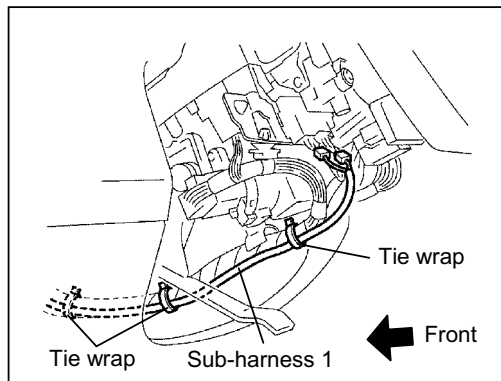
6. Branch connect sub-harness 1 (blue/yellow) to the light switch 17-pin connector (terminal D: blue/yellow) using an electro-tap.

7. Branch connect sub-harness 1 (black/red) to the light switch 17-pin connector (terminal R: black/red) using the electro-tap (kit accessory).

**CAUTION**

- If there is no wiring harness on the light switch connector terminals D and R, insert sub-harness 2 to terminal D securely, and sub-harness 3 to terminal R, then branch connect sub-harness 1 using an electro-tap.
- Refer to the [Connection using electro-tap] for the electro-tap connection.
- Wrap the electro-tap area using urethane tape.





8. Secure sub-harness 1 to the vehicle wiring harness using tie wraps.

## 7. OPERATION CHECK

- After verifying the harness routing, connect the negative battery cable.

### CAUTION

- When the battery is disconnected, the windows will not fully open and close automatically. Perform the following procedure to resume operation:
  1. Turn the ignition switch to the ON position.
  2. Press the switch and fully open the window.
  3. Pull up the switch and continue holding for about 2 seconds to fully close the window.
  4. If the function does not operate even after the ignition switch is turned off, contact an Authorized Mazda Dealer.
- After installing the separately-sold fog lamp (TD11 V7 220F), verify that the fog lamps operate. (Refer to Fog lamp kit installation and user's instructions.)

# INSTALLATION INSPECTION SHEET

**Mazda  
CX-9**

**FRONT FOG LAMP HARNESS**

**TD11 V7 235**

## A. Vehicle parts reinstallation

- Install removed vehicle parts in the reverse order of "VEHICLE PARTS REMOVAL".

**⚠ CAUTION**

- Make sure that the vehicle parts are clean before reinstalling. Clean any dirty parts.
- Verify that the connectors are securely connected.

Check

## B. Inspection after installation

- Inspect the installed / reinstalled parts for the following items.

Inspection Parts	Inspection Items (○)				
	Clearance/Fit	Scratches/ Dirt/ Harness interference	Installation/ Tightening/ Engagement	Operation check	Adjustment
Light switch	○	○	○	○	
Lower panel cover	○	○	○		
Column cover	○	○	○	○	
Front scuff plate inner	○	○	○		
Front side trim	○	○	○		
Mudguard	○	○	○		
Front bumper	○	○	○		
Front over fender	○	○	○		
Negative battery cable	○	○	○		
Windows fully open and close automatically				○	

Installation inspection sheet for front fog lamp harness

Date _____, _____, _____					
VIN. _____					
Approved		Checked		Person in charge	

The term of validity for this sheet: 12 months