




GENUINE Interior Lighting Kit


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 interior lighting kit.
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 safety when installing or removing the interior lighting kit. 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.

- For areas indicating the tightening torque in this instruction manual, tighten to the specified torque using a torque wrench.
- Do not modify the interior lighting kit.
- Do not install the interior lighting kit remove 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: Interior Lighting kit
VEHICLE: MAZDA CX-5
PART NUMBER: KB7W V7 050

NOTE

To the dealer

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

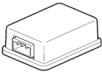


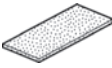
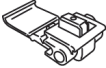
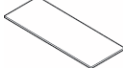



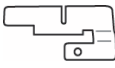

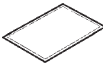

To the customer

- 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 vehicle for the next owner.

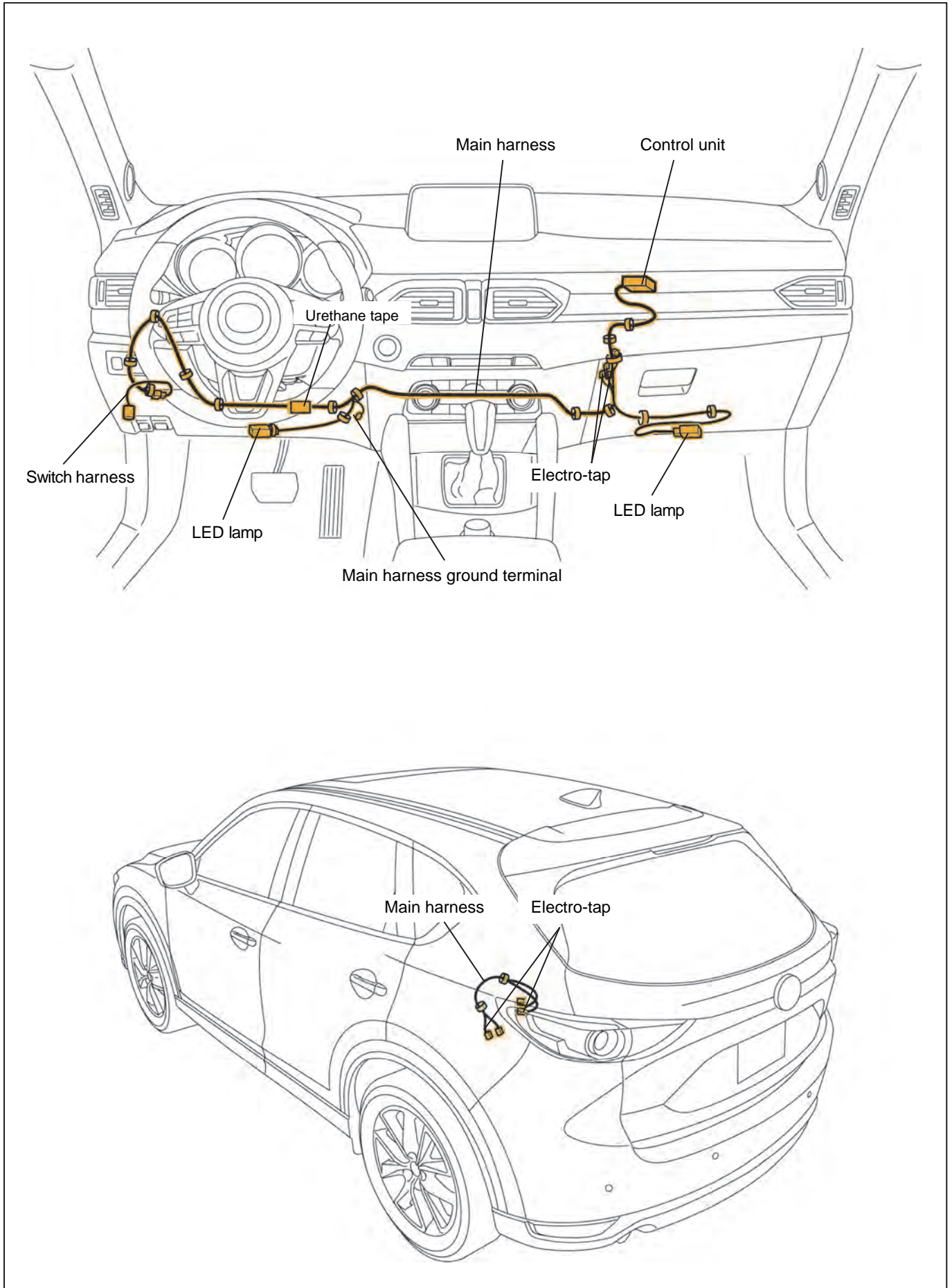
1. PARTS

Note

- Before installation, verify that the kit includes all the following parts and that they are free of dirt, scratches, or damage.

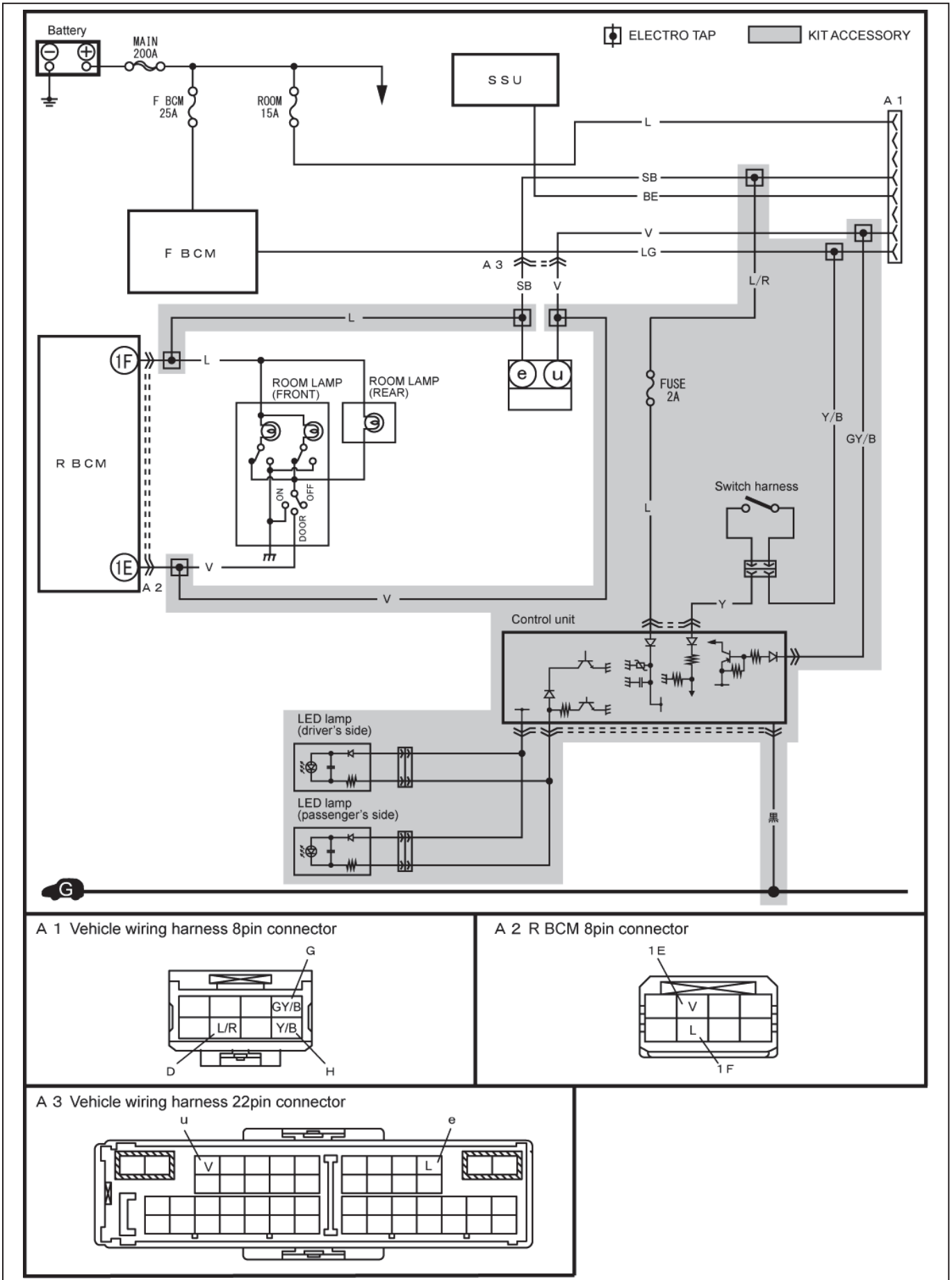
Part	Part name	Qty.	Part	Part name	Qty.	Part	Part name	Qty.
	Control unit	1		Main harness	1		LED lamp (G44N V7 052)	2
	Urethane tape 80×50mm	2		Electro tap	7		Double-sided adhesive tape A 53×14(mm)	2
	Double-sided adhesive tape B 20×14(mm)	1		Sub Harness	1		Tie wrap for harness L=200mm	17
	Bracket	1		Installation instructions	1		Installation inspection sheet User's instructions	1ea.
	Cancellation switch with sticker (E223 V7 055)	1						

Installation view



2. CONNECTION DIAGRAM

- Figure shows connector viewed from harness side.
- Wire color indicated in figure is wiring harness color for Interior lighting kit.




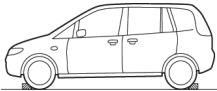





3. BEFORE INSTALLATION

■ REQUIRED TOOLS


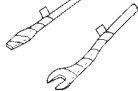

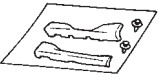



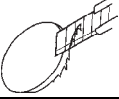
- ☆Screwdriver (Phillips)
- ☆Nipper
- ☆Drill (2mm,5mm,9mm)
- ☆Flathead screwdriver wrapped with protective tape
- ☆Masking tape
- ☆Mat
- ☆Socket wrench
- ☆Pliers
- ☆Hole saw (20mm)
- ☆Fastener remover wrapped with protective tape
- ☆Electrical vinyl tape
- ☆IPA (Isopropyl alcohol)
- ☆Torque wrench
- ☆Pin
- ☆Round file
- ☆Scissors
- ☆Soft clean cloth

- To perform the installation work safely and maintain functionality and quality, thoroughly read these instructions before performing the procedures and always heed the warnings and precautions.
- In the work procedures, there are descriptions which are only indicated in the illustrations. Make sure to follow these procedures as well.

⚠ WARNING

			
When the negative battery is connected during operation, may cause electric shock or other personal injuries. Disconnect the negative cable before /installation.	Before performing any work, park the vehicle on level ground, apply the parking brake securely, and then block the wheels.	Be careful when handling drills and other sharp objects. If not handled properly, it could result in serious injury.	
			
When connecting/dis- connecting connectors, grasp the connectors, not the wires. Otherwise a short, and an accident from poor contact or fire may occur.	Make sure the connector is securely pressed in until a click sound is heard. Otherwise, a fire or other accident may occur due to an open circuit or poor contact.	Secure the harness with the band (part included) so it doesn't dangle. If not, it may cause a short, accident, or fire.	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.

⚠ CAUTION

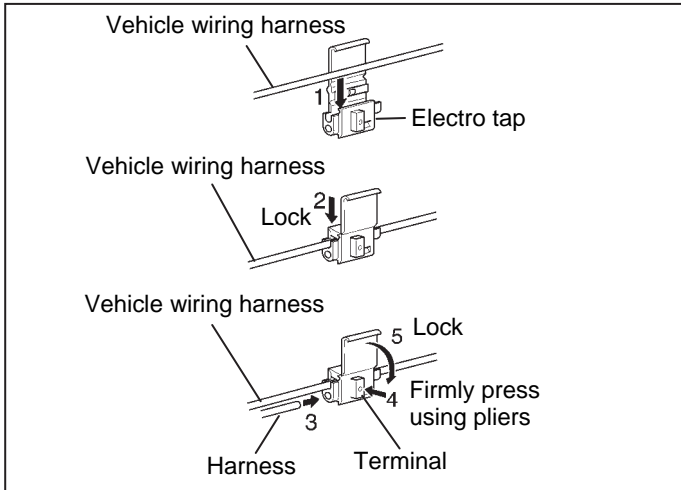
			
Using improper tools may cause damage and/or broken parts. Use the correct tool for the job.	Wrap protective tape around screwdrivers and fastener remover tools to prevent scratching the vehicle.	Excessive length of tie wrap may interfere with other parts and cause damage.	Put the removed parts and the parts in the kit on the protective sheet to prevent scratches.
			
If there is dust, dirt or grease on the adhesion surface, the adhesive strength of the double-sided adhesive tape will splotch and adhesive power of the tape will be reduced. Wash and degrease the surface of the adhesion area before applying the double-sided adhesive tape. Be sure to wash interior and exterior parts using IPA (isopropyl alcohol).	If tape or a mount base is re-adhered, the adhesive strength will be weakened. Before adhering, accurately determine the adhesion position.	When drilling, hold the drill or hole saw perpendicular to the drilling surface to prevent the drill position from deviating.	Make sure to remove burrs from the surface so that the bumper surface is smooth.

Advice

Refer to the Workshop Manual for removal and installation of vehicle parts.



■ Branch connection procedure using electro tap



1. Insert the harness and vehicle wiring harness into the electro tap.
2. Fold the electro tap as shown in the figure and lock it.

CAUTION

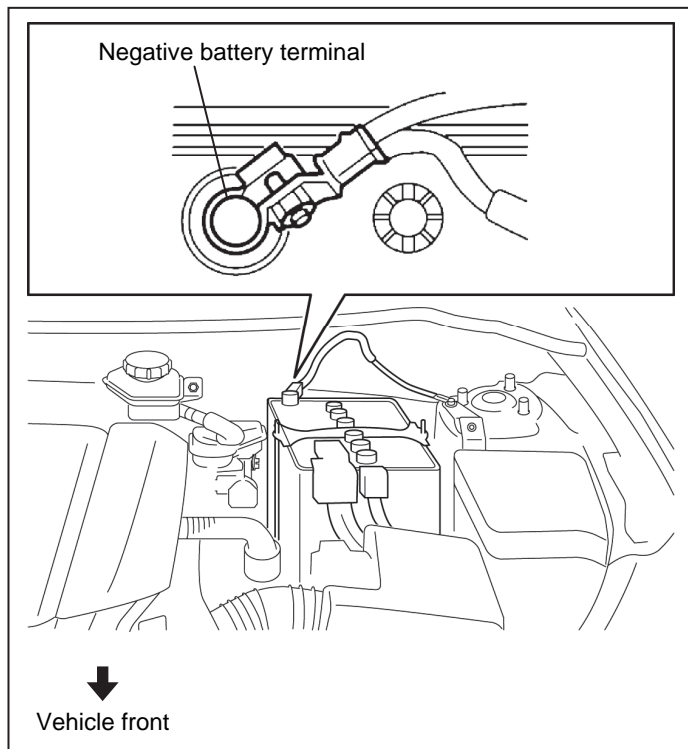
- Firmly engage the lock part until a click sound is heard.

3. Insert the harness to the end of the electro tap.
4. Firmly press the electro tap terminal using pliers.
5. Fold the electro tap in the direction of the arrow shown in the figure and lock it.

4. PART REMOVAL

⚠ CAUTION

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



Negative battery terminal disconnection

1. Set the selector lever to the P position.
(AT vehicles only)

⚠ WARNING

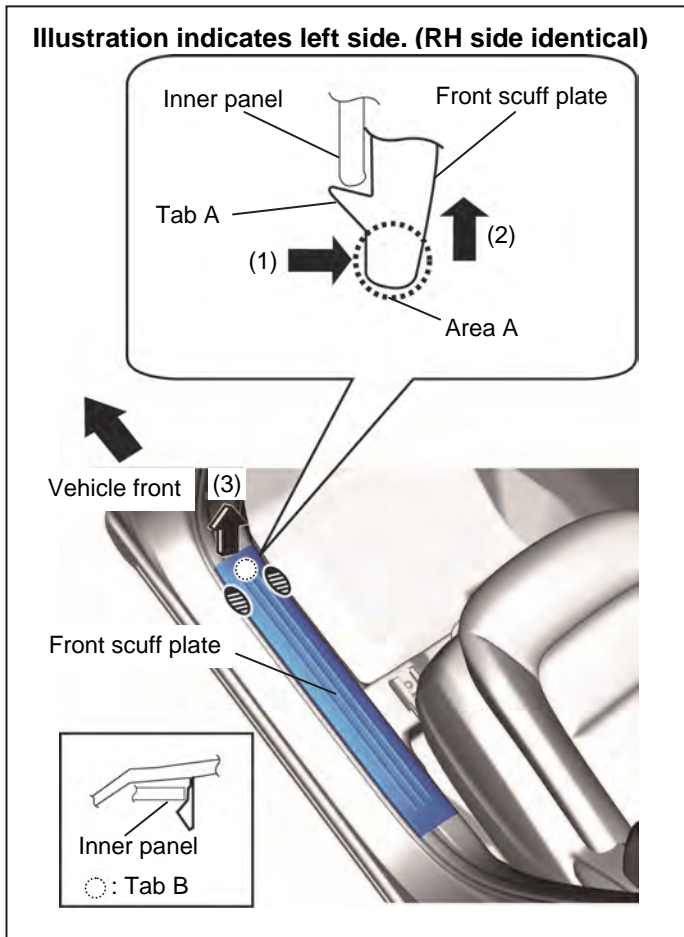
- When removing/installing the parts, park the vehicle on level ground and apply the side brake securely. Be sure to turn the ignition switch off, otherwise the vehicle can move, causing personal injury or vehicle damage.

2. Disconnect the negative battery terminal and wrap tape around it to insulate.

⚠ WARNING

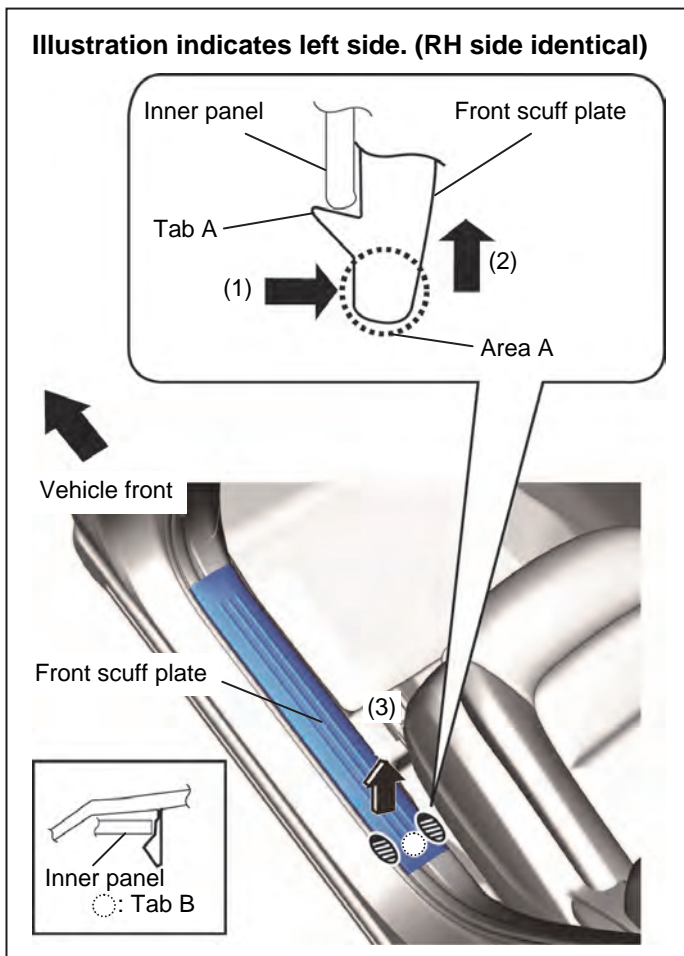
- If the negative battery terminal is connected while performing the work, it may cause electrocution or other personal injuries. Disconnect the negative battery terminal before removal/installation.

Tightening torque : 4.0-6.0 N·m



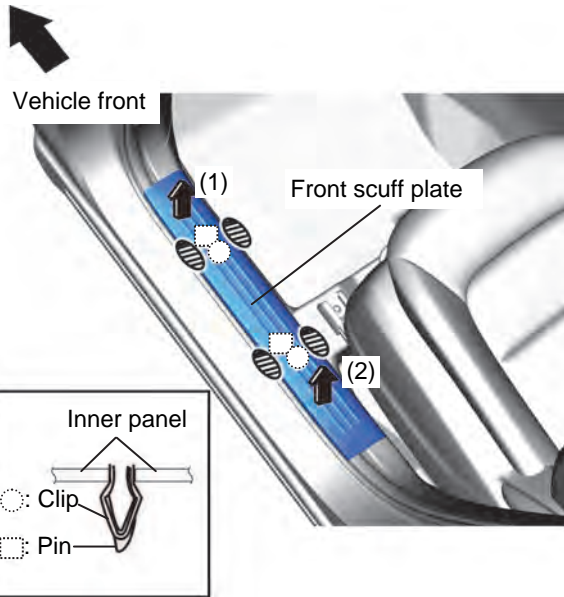
Front scuff plate removal

1. Hold area A shown in the figure, open the front scuff plate in the direction of arrow (1), and detach tab A of the front scuff plate from the inner panel while moving it in the direction of arrow (2).
2. Hold the shaded areas shown in the figure and detach tab B of the front scuff plate from the inner panel while moving the front scuff plate in the direction of arrow (3).



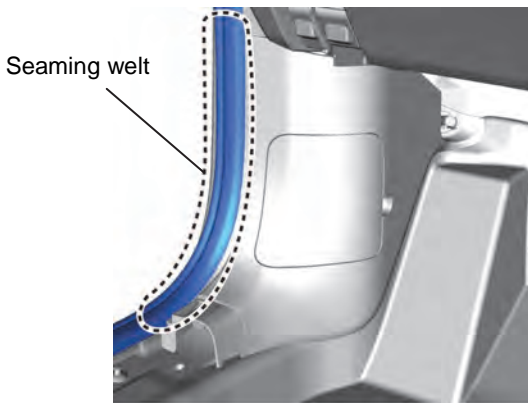
3. Hold area A shown in the figure, open the front scuff plate in the direction of arrow (1), and detach tab A of the front scuff plate from the inner panel while moving it in the direction of arrow (2).
4. Hold the shaded areas shown in the figure and detach tab B of the front scuff plate from the inner panel while moving the front scuff plate in the direction of arrow (3).

Illustration indicates left side. (RH side identical)



5. Hold the shaded areas shown in the figure and detach the clip from the inner panel while moving the front scuff plate in the direction of arrow (1).
6. Hold the shaded areas shown in the figure and detach the clip from the inner panel while moving the front scuff plate in the direction of arrow (2).
7. Pull out the pins and remove the front scuff plate.

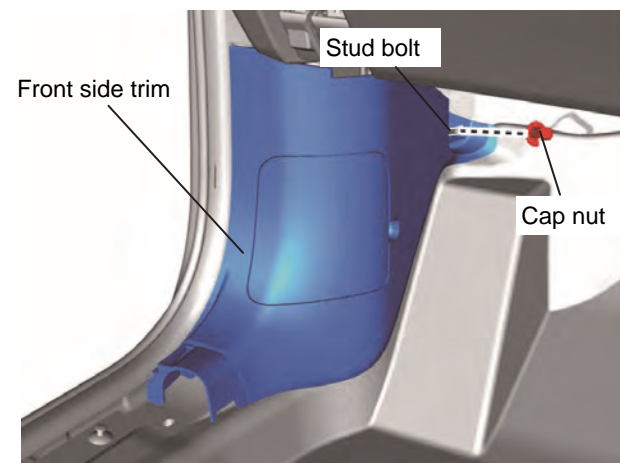
Illustration indicates left side. (RH side identical)



Front side trim removal

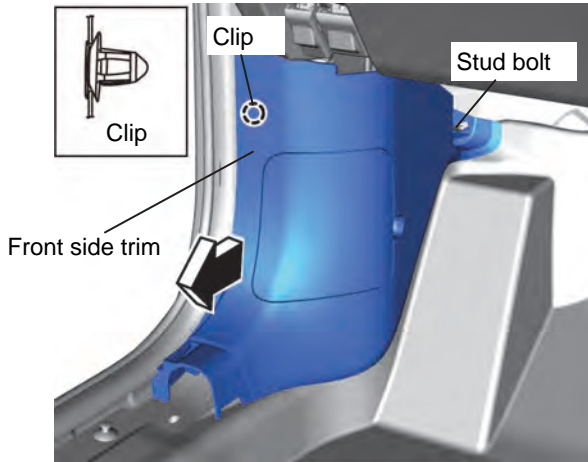
1. Partially peel back the seaming welt.

Illustration indicates left side. (RH side identical)



2. Remove the cap nut from the stud bolt.

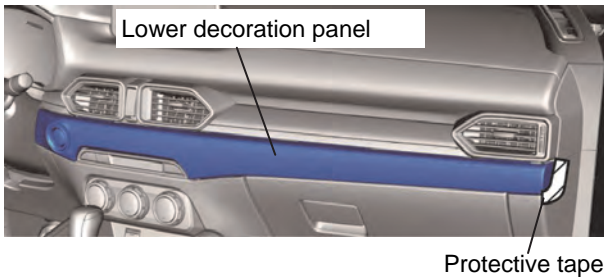
Illustration indicates left side. (RH side identical)



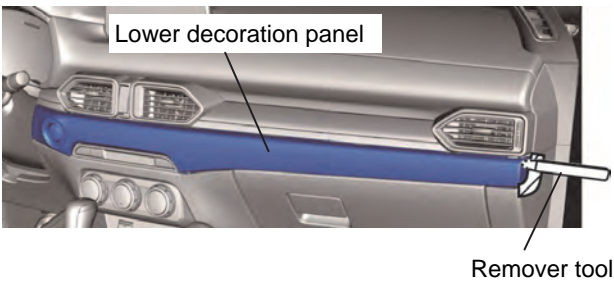
3. Pull the front side trim out of the stud bolt.
4. Pull the front side trim in the direction of the arrow shown in the figure and remove it while detaching the clip.

Lower decoration panel removal

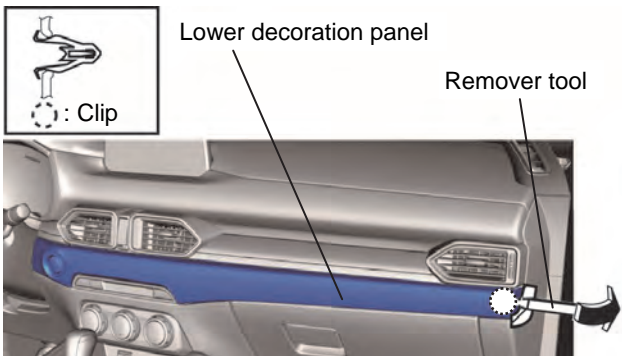
1. To prevent scratches or damage, apply protective tape to the position shown in the figure.

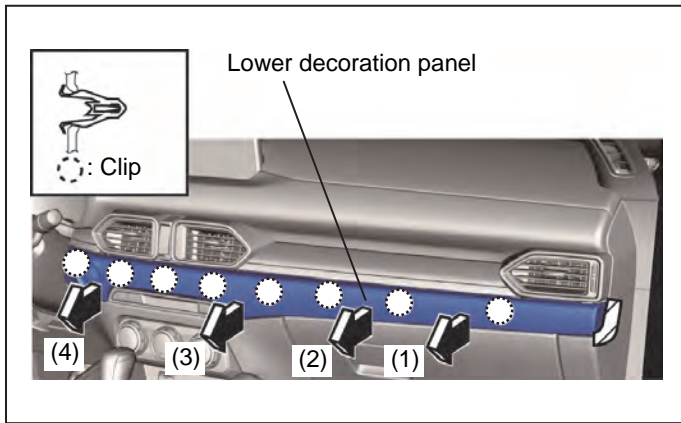


2. Insert a remover tool into the position shown in the figure.



3. Move the remover tool in the direction of the arrow shown in the figure and detach the clip.

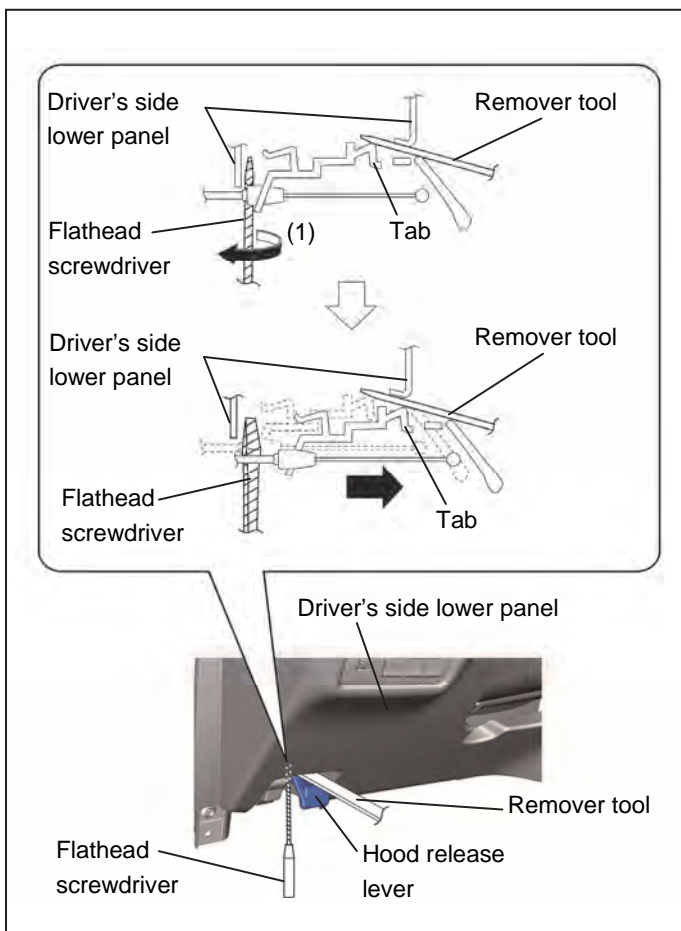




4. Move the lower decoration panel in the order of arrows (1), (2), (3), and (4) shown in the figure, and remove it while detaching the clips.
5. Disconnect the push button start connector.

NOTE

- When replacing the lower decoration panel, remove the push button start.

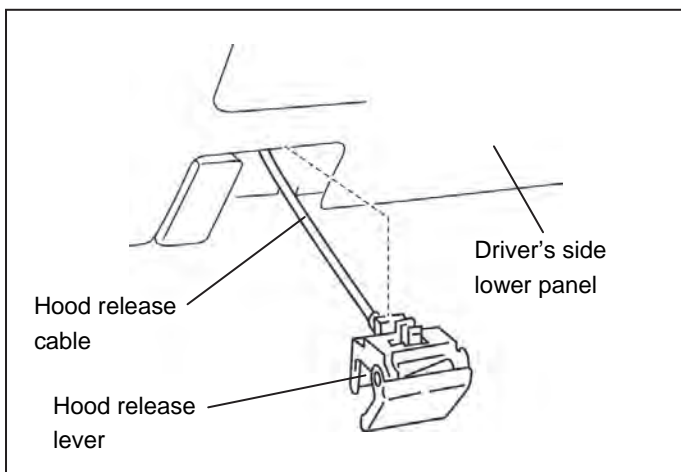


Hood release lever removal

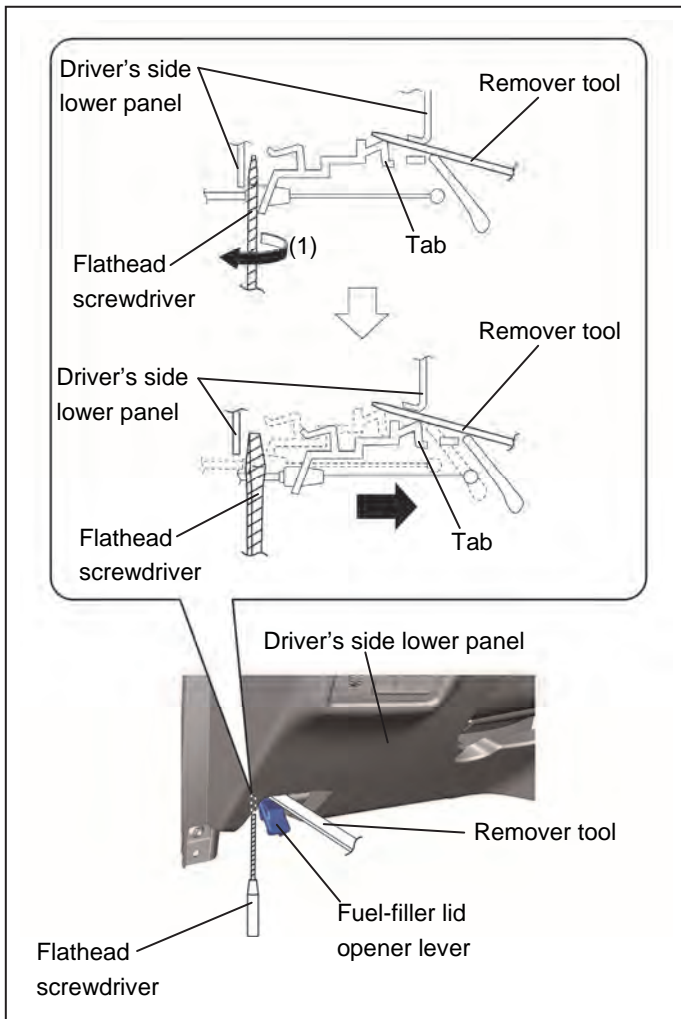
1. While pulling the hood release lever, insert a remover tool into the position shown in the figure.
2. Insert a tape-wrapped flathead screwdriver into the position shown in the figure and rotate it in the direction of arrow (1) to detach the hood release lever from the driver's side lower panel.

CAUTION

- Remove the hood release lever while being careful not to damage the hood release cable with the flathead screwdriver.



3. Disconnect the hood release cable from the hood release lever.

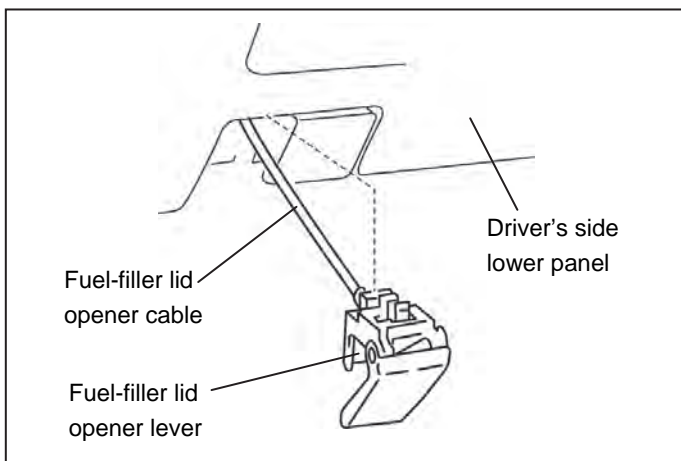


Fuel-filler lid opener lever removal

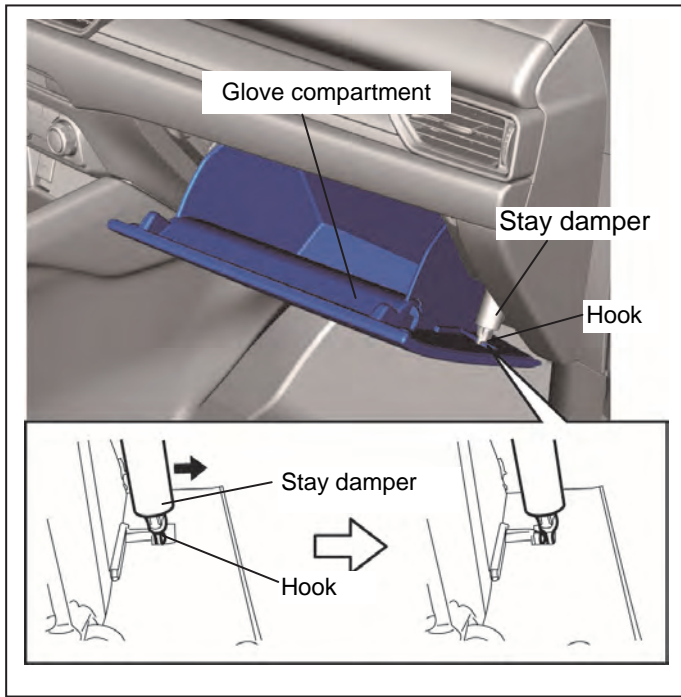
1. While pulling the fuel-filler lid opener lever, insert a remover tool into the position shown in the figure.
2. Insert a tape-wrapped flathead screwdriver into the position shown in the figure and rotate it in the direction of arrow (1) to detach the fuel-filler lid opener lever from the driver's side lower panel.

⚠ CAUTION

- Be careful not to damage the fuel-filler lid opener lever with the flathead screwdriver.



3. Disconnect the fuel-filler lid opener cable from the fuel-filler lid opener lever.

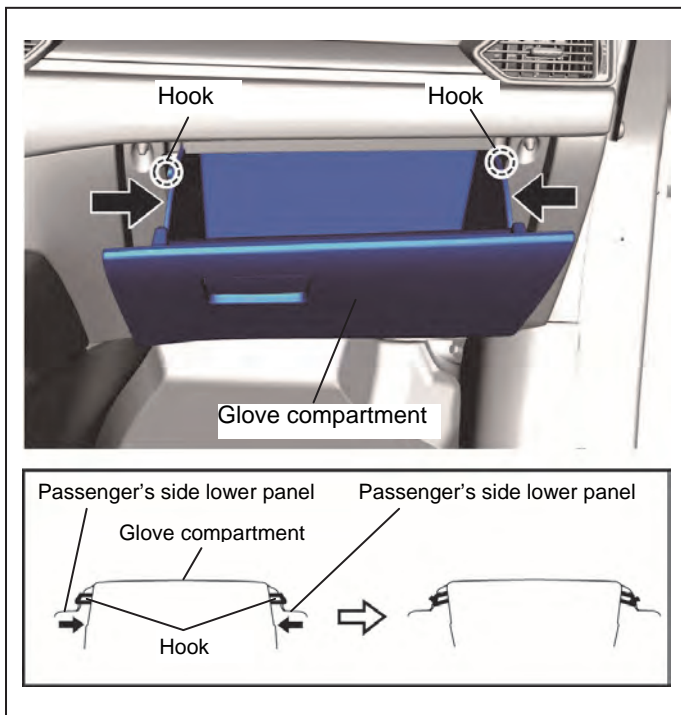


Glove compartment removal

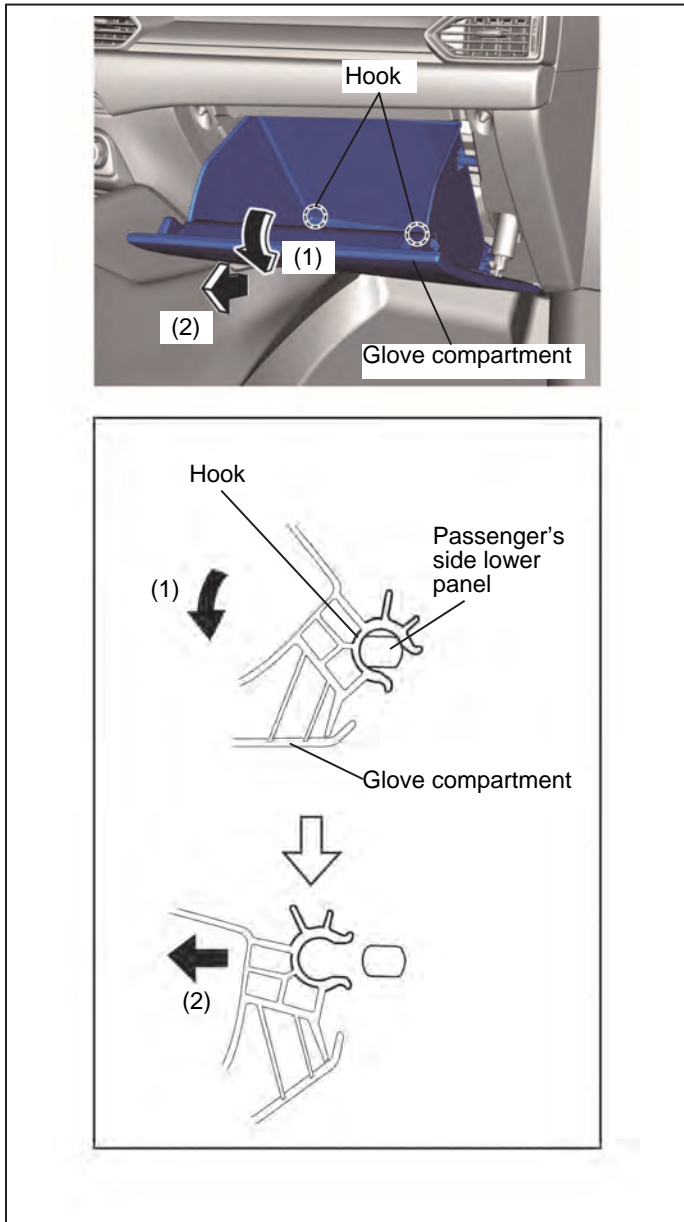
1. Pull the stay damper in the direction of the arrow shown in the figure and detach the hook.

⚠ CAUTION

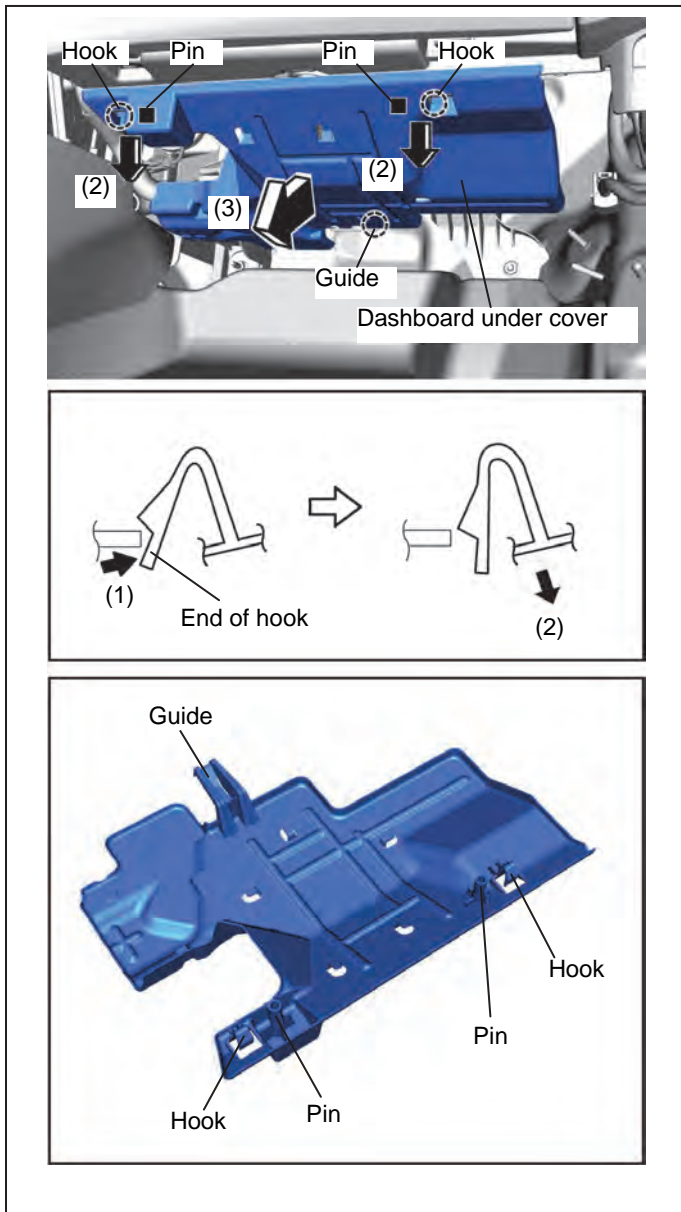
- If the glove compartment is closed without the stay damper attached to the hook, the stay damper may become damaged. Verify that the stay damper is attached to the hook before closing the glove compartment.



2. Press both ends of the glove compartment in the directions of the arrows shown in the figure and detach the hooks.



3. Lower the glove compartment in the direction of arrow (1) shown in the figure, pull it up in the direction of arrow (2), and remove it while detaching the hooks.

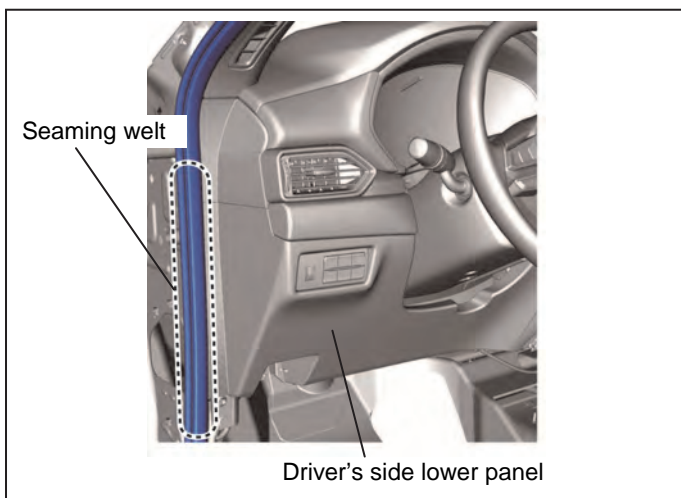


Dashboard under cover removal

1. With the end of the hook pressed in the direction of arrow (1) shown in the figure, pull the dashboard under cover in the direction of arrows (2) and detach the hooks and pins.
2. Pull the dashboard under cover in the direction of arrow (3) shown in the figure and remove it while releasing the guide.

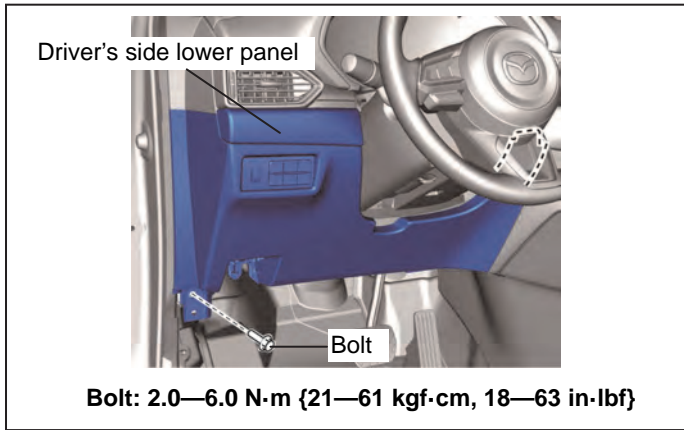
⚠ CAUTION

- When detaching the hooks and pins, if the dashboard under cover is pulled downward forcefully, the guide may become damaged. Be careful not to damage the guide when detaching the hooks and pins.

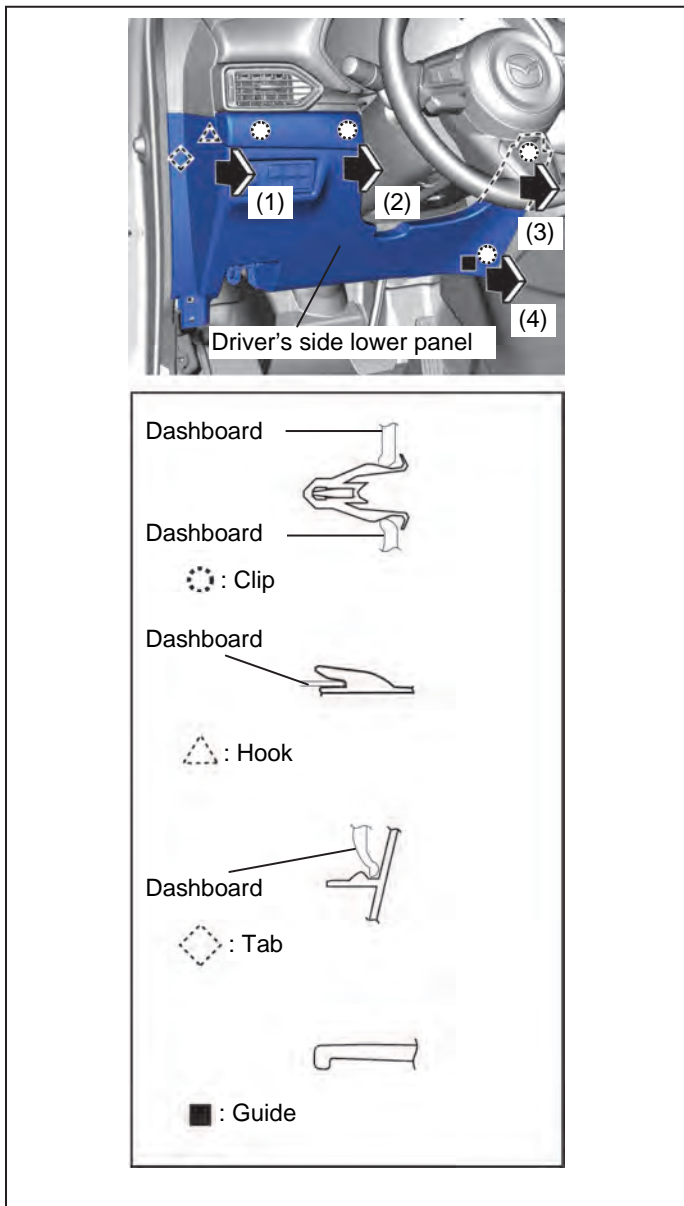


Lower panel removal [Driver's side]

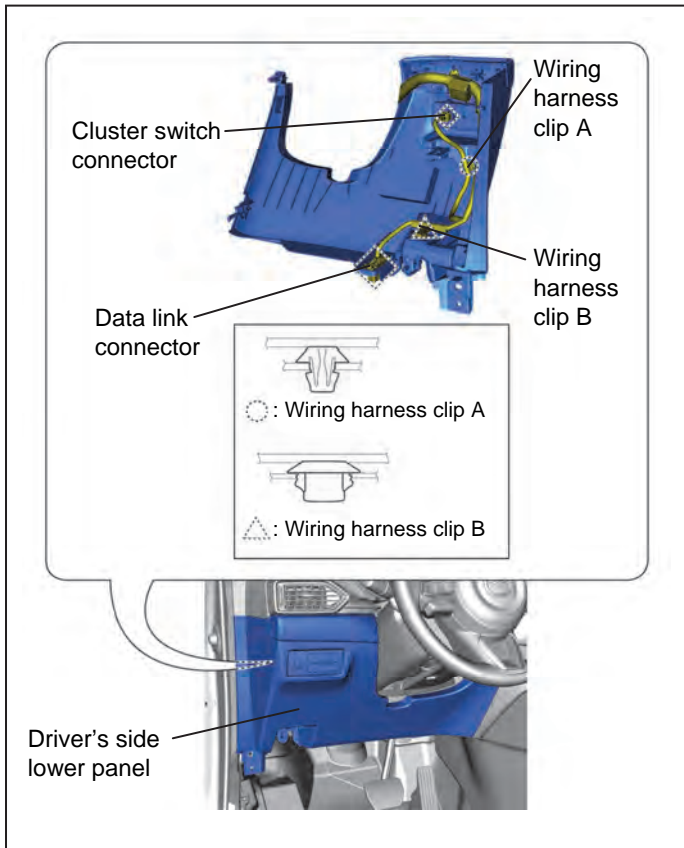
1. Partially peel back the seaming welt.



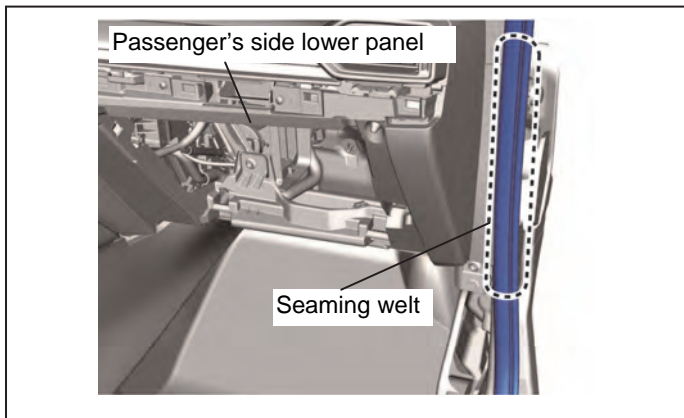
2. Remove the bolt.



3. Pull the driver's side lower panel in the order of arrows (1), (2), (3), and (4) shown in the figure, and remove it while detaching the clips, hook, tab, and guide.

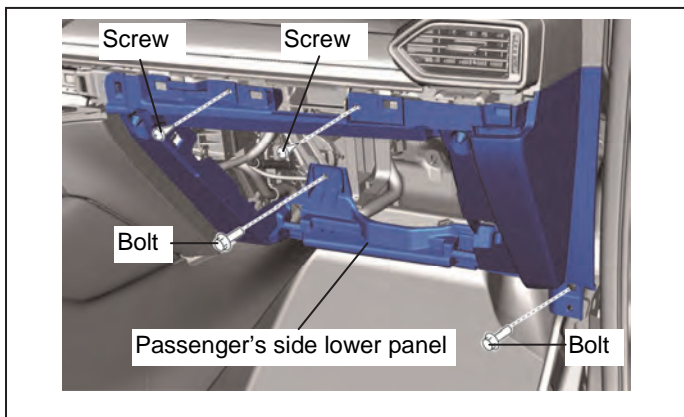


4. Disconnect the cluster switch connector.
5. Remove the data link connector.
6. Remove the wiring harness clips A and B.

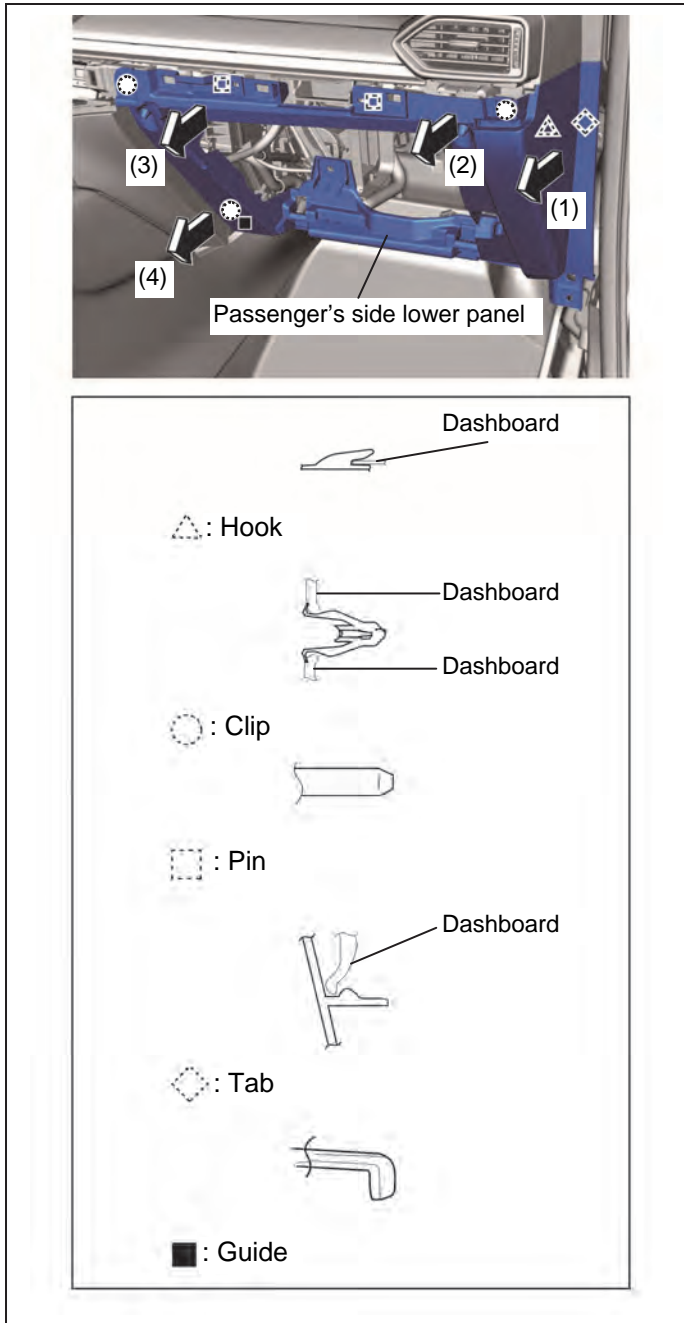


[Passenger's side]

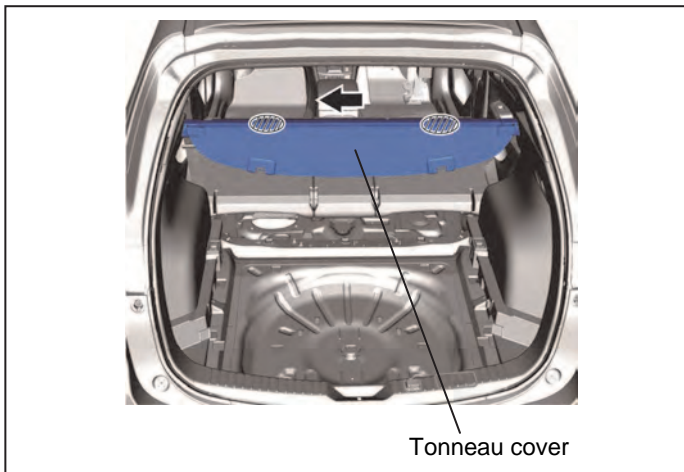
1. Partially peel back the seaming welt.



2. Remove the bolts.
3. Remove the screws.

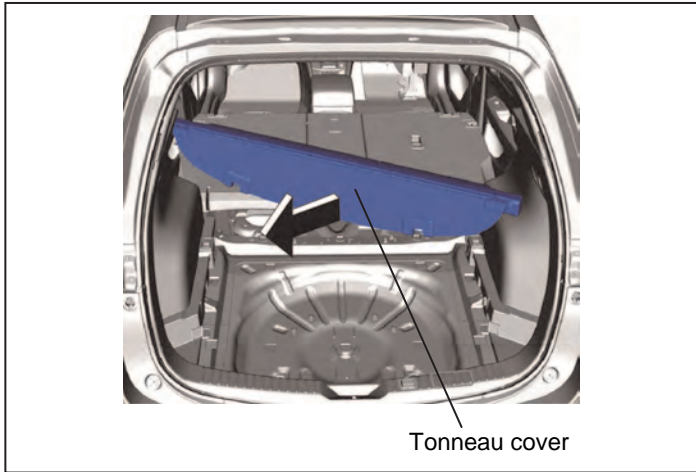


4. Move the passenger's side lower panel in the order of arrows (1), (2), (3), and (4) shown in the figure, and remove it while detaching the hook, clips, pins, tab, and guide.

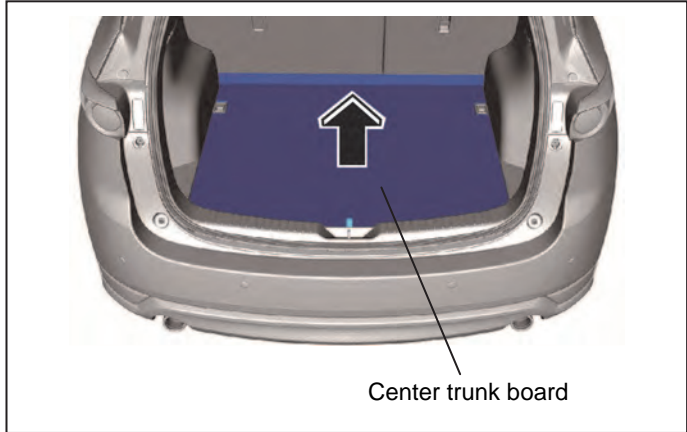


Tonneau cover removal

1. Hold the shaded areas shown in the figure and move the tonneau cover in the direction of the arrow.

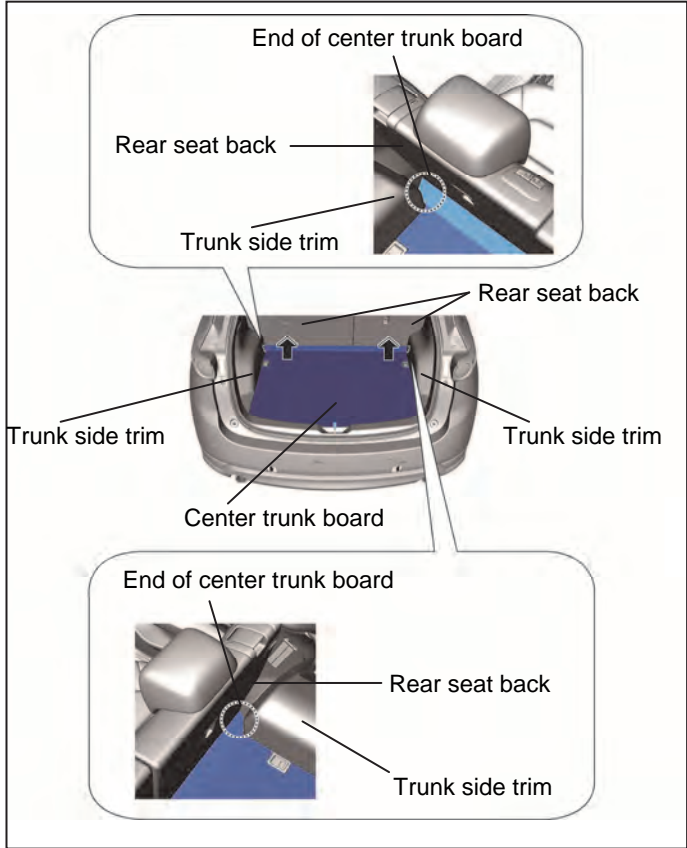


2. Remove the tonneau cover in the direction of the arrow shown in the figure.



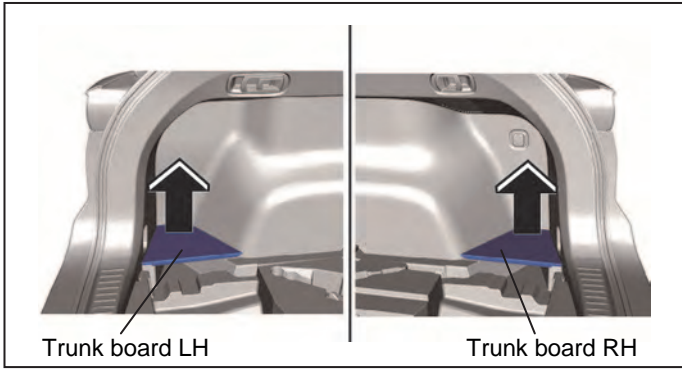
Trunk board removal

1. Remove the center trunk board.



Note

- Move the center trunk board in the direction of the arrows shown in the figure, and remove the ends of the center trunk board from the gap between the trunk side trim and the rear seat back.



2. Remove the trunk board RH and trunk board LH.

With spare tire

Bass box

Bolt : 4.0—8.0 N·m
{41—81 kgf·cm, 36—70 in·lbf}

Without spare tire

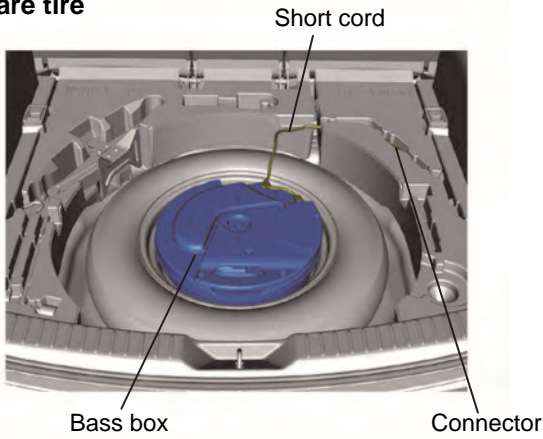
Bass box

Bolt : 4.0—8.0 N·m
{41—81 kgf·cm, 36—70 in·lbf}

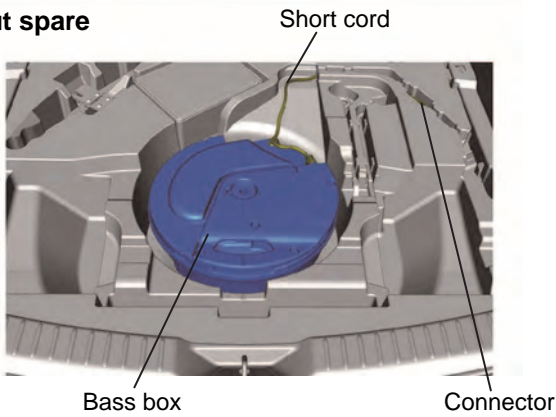
Bass-box removal

1. Remove the bolt.

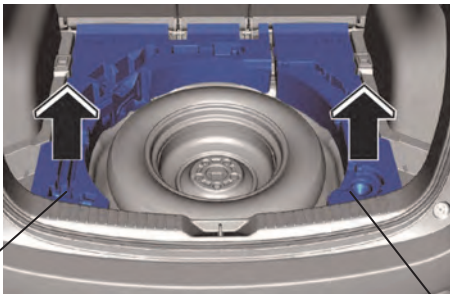
With spare tire



Without spare



2. Disconnect the connector.
3. Remove the bass box and short cord as a single unit.

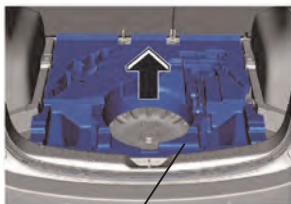


Sub-trunk removal

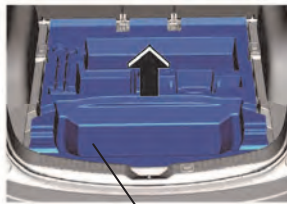
[With spare tire]

1. Remove sub-trunks No.1 and No.2 in the direction of the arrows shown in the figure.

With Bose®

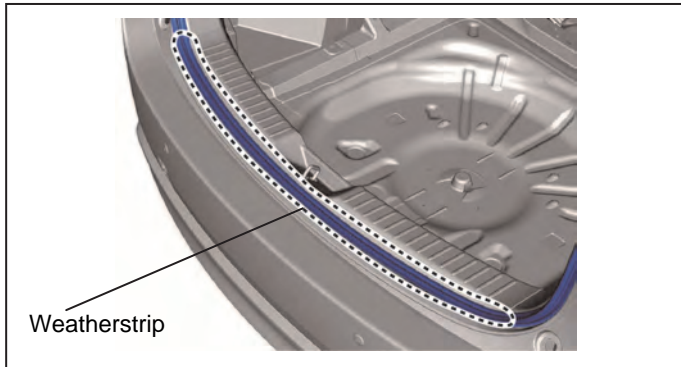


Without Bose®



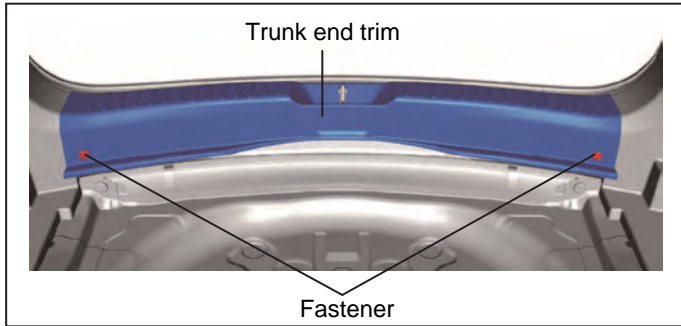
[Without spare tire]

2. Remove the sub-trunk in the direction of the arrow shown in the figure.

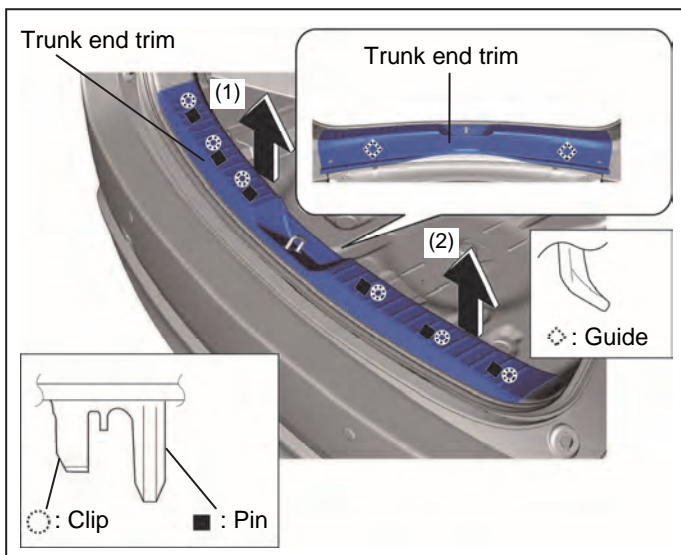


Trunk end trim removal

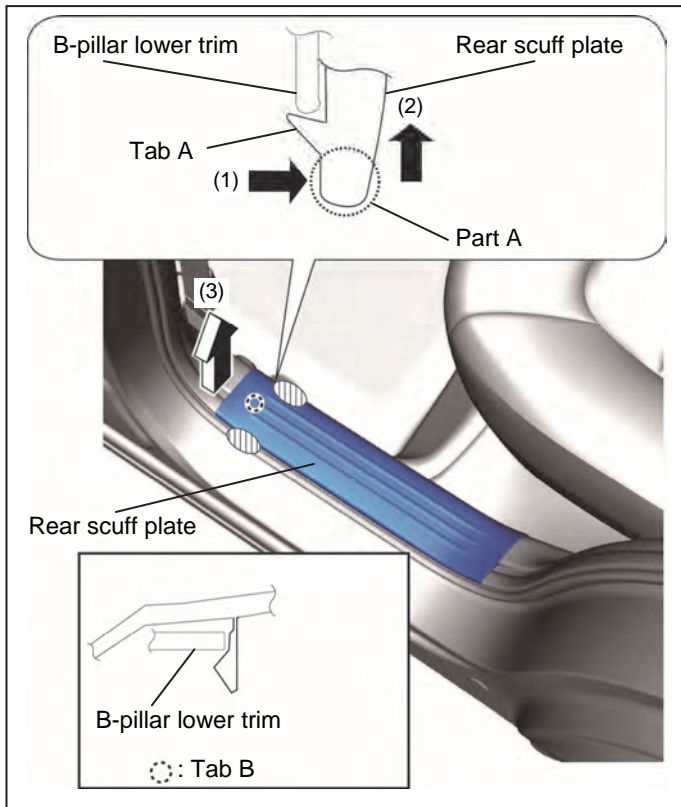
1. Partially peel back the weatherstrip.



2. Remove the fasteners.

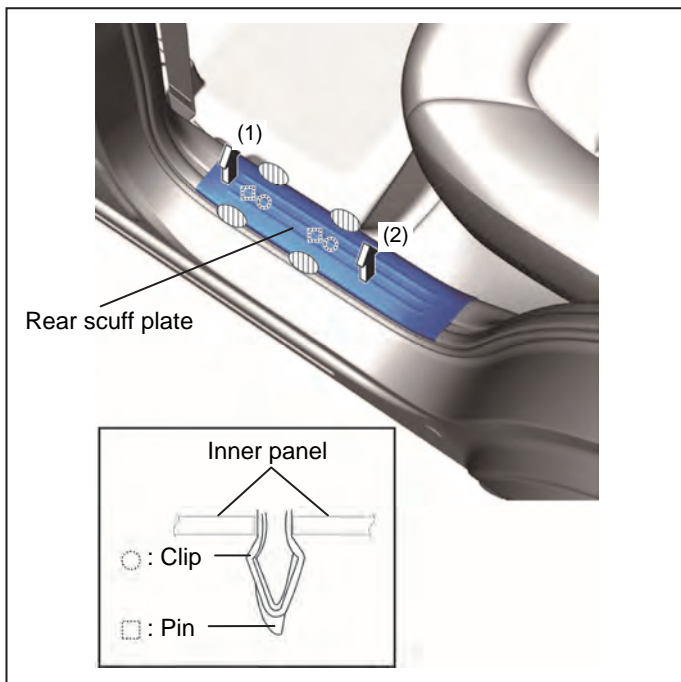


3. Move the trunk end trim in the order of arrows (1) and (2) shown in the figure, remove it while detaching the clips, pins, and the guides.

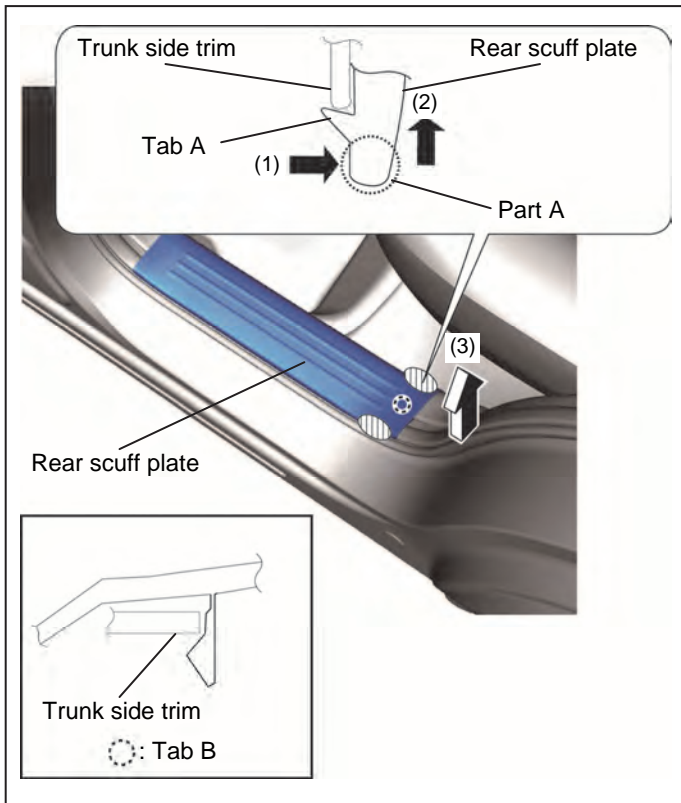


Rear scuff plate removal

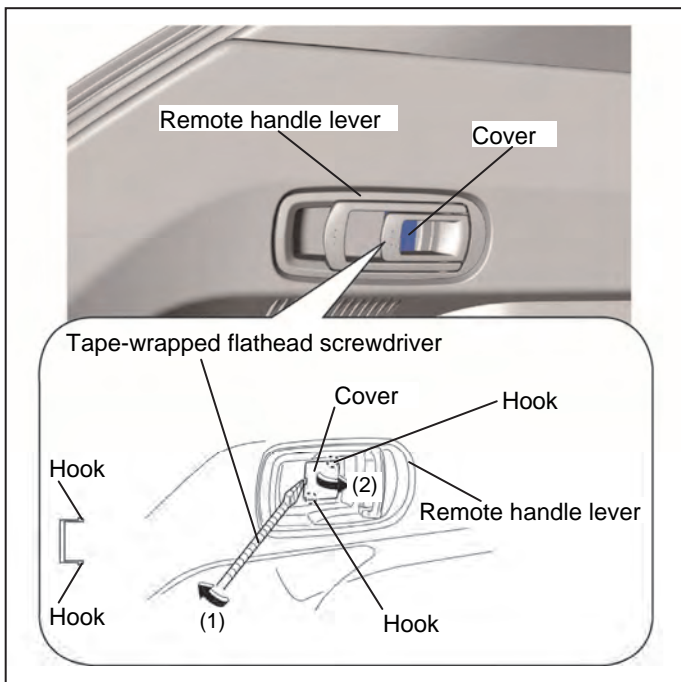
1. Hold part A shown in the figure, open the rear scuff plate in the direction of arrow (1), move it in the direction of arrow (2), and detach tab A of the rear scuff plate from the B-pillar lower trim.
2. Hold the shaded areas shown in the figure, move the rear scuff plate in the direction of arrow (3), and detach tab B of the rear scuff plate from the B-pillar lower trim.



3. Hold the shaded areas shown in the figure, move the rear scuff plate in the direction of arrow (1), detach the clip from the inner panel, and pull out the pin.
4. Hold the shaded areas shown in the figure, move the rear scuff plate in the direction of arrow (3), and remove it while detaching tab B of the rear scuff plate from the trunk side trim.

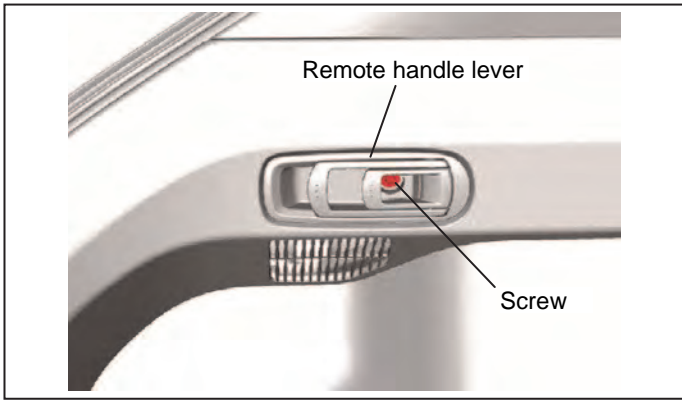


5. Hold part A shown in the figure, open the rear scuff plate in the direction of arrow (1), move it in the direction of arrow (2), and detach tab A of the rear scuff plate from the trunk side trim.
6. Hold the shaded areas shown in the figure, move the rear scuff plate in the direction of arrow (3), and remove it while detaching tab B of the rear scuff plate from the trunk side trim.

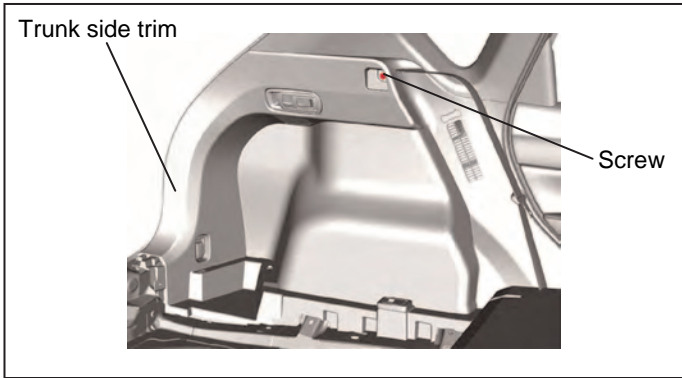


Trunk side trim removal

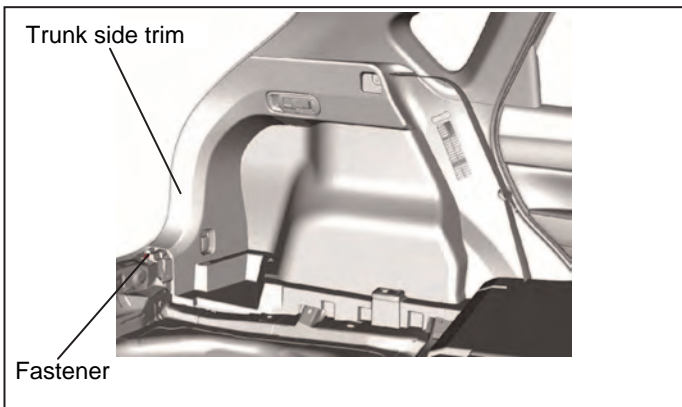
1. Insert a tape-wrapped flathead screwdriver into the position shown in the figure, move it in the direction of arrow (1), and while detaching the hooks of the remote handle lever, open the cover in the direction of arrow (2).



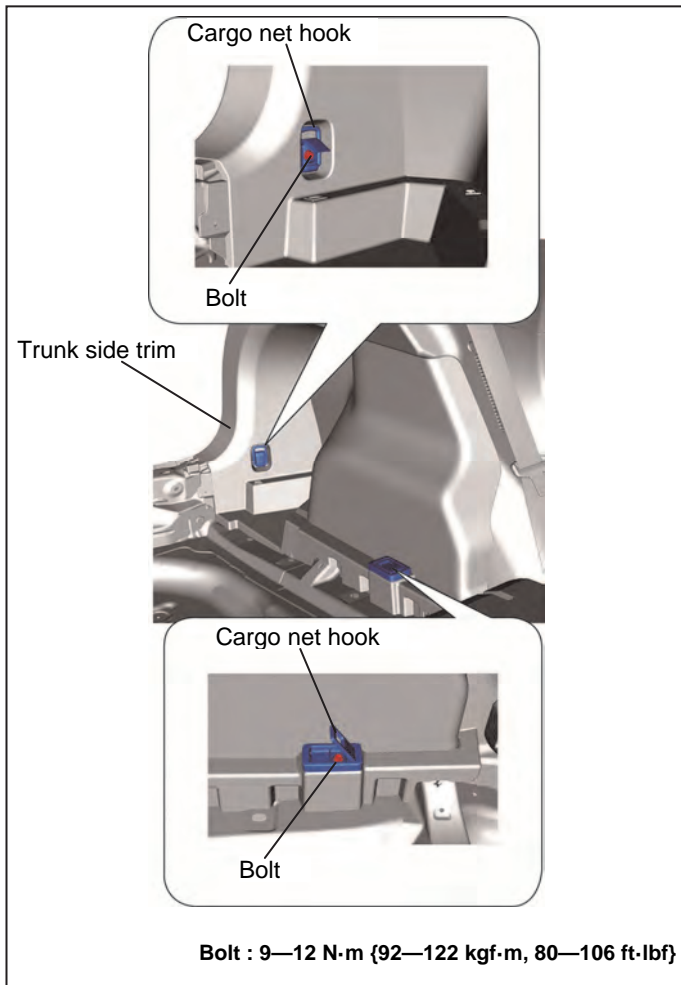
2. Remove the screw.



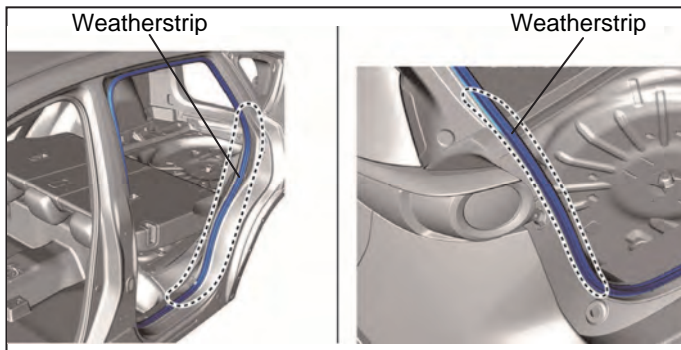
3. Remove the screw.



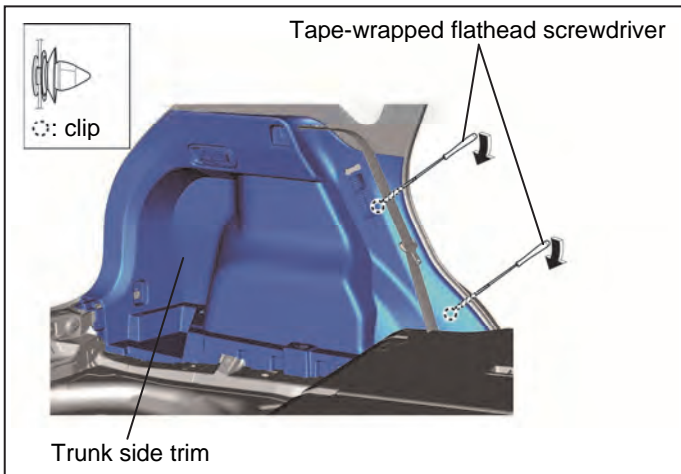
4. Remove the fastener.



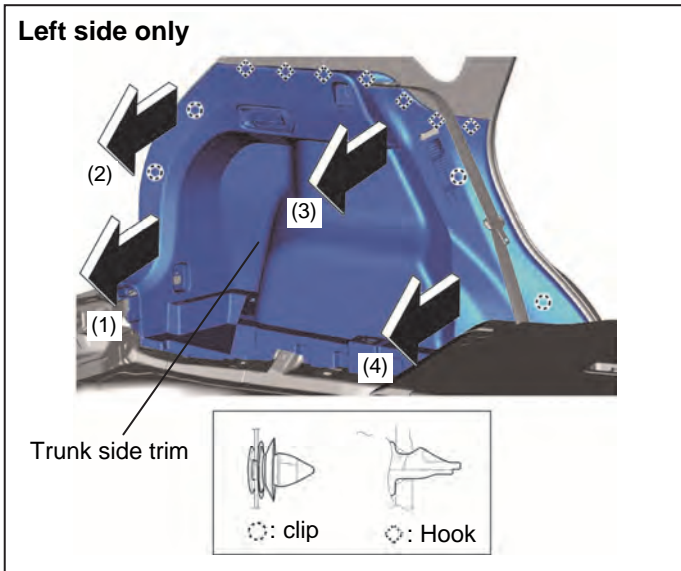
5. Remove the bolts.
6. Remove the cargo net hooks.



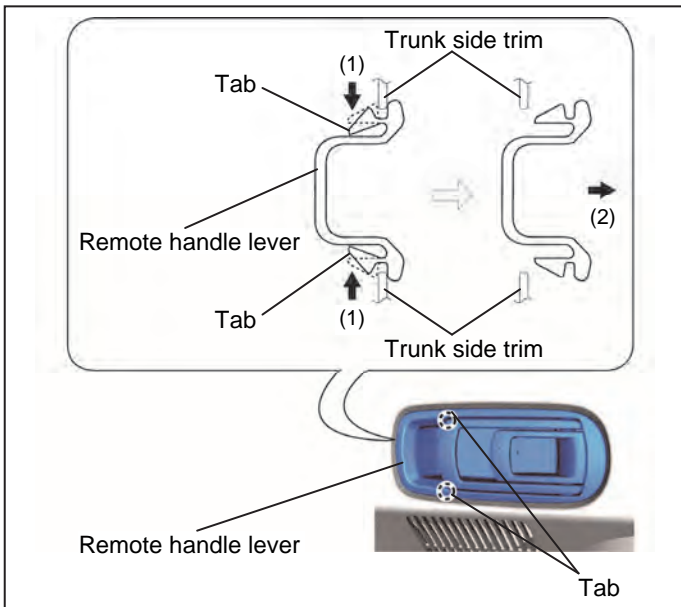
7. Partially peel back the weatherstrips.
8. Remove the rear seat cushion.
9. Fold the rear seat back.



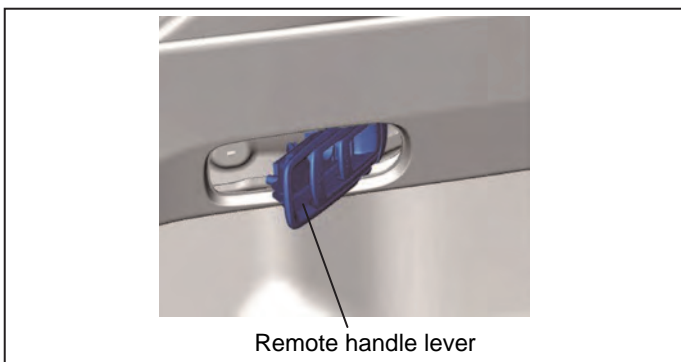
10. Insert a tape-wrapped flathead screwdriver into the position shown in the figure, move it in the direction of the arrows, and remove the clips.



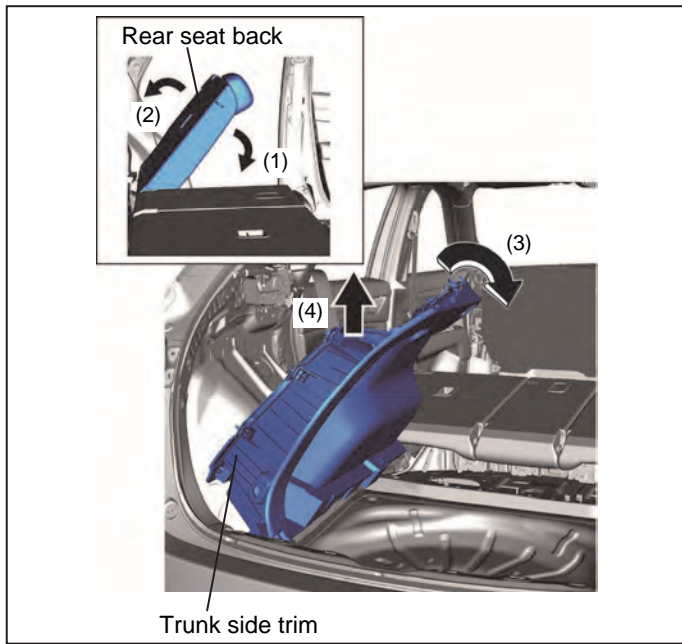
11. Move the trunk side trim in the order of arrows (1), (2), (3), and (4) shown in the figure, and remove the clips and hooks.



12. Insert a hand into the back side of the trunk side trim, press the tabs of the remote handle lever in the direction of arrows (1) shown in the figure, and remove the remote handle lever in the direction of arrow (2).



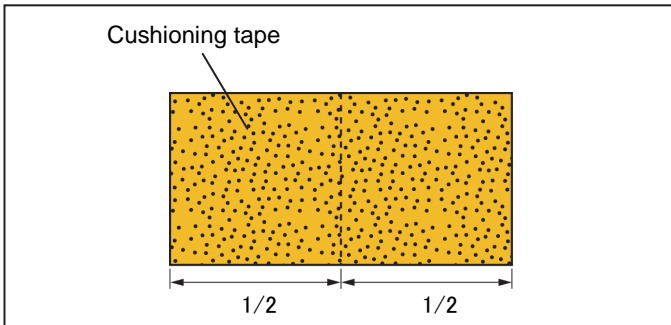
13. Set the remote handle lever aside.



14. Move the position of the rear seat back in the direction of arrows (1) and (2) shown in the figure, while adjusting it at a position where the trunk side trim can be removed, move the trunk side trim in the direction of arrow (3) shown in the figure, and remove it in the direction of arrow (4).

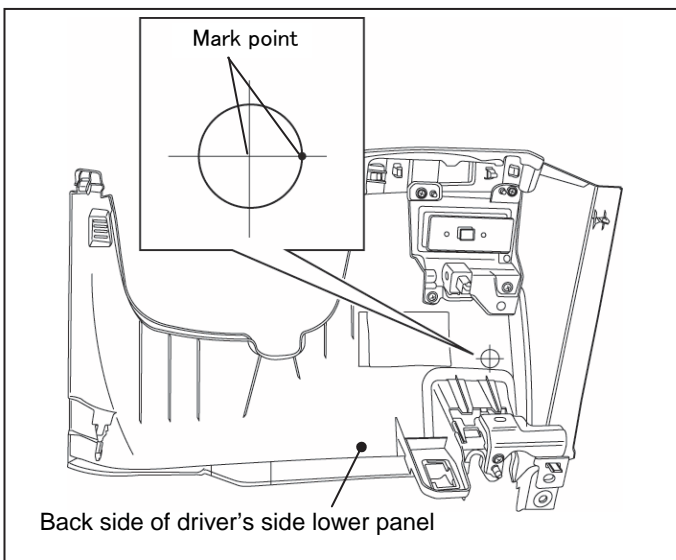
5. PREPARATION FOR INSTALLATION

■ Cutting the cushioning tape

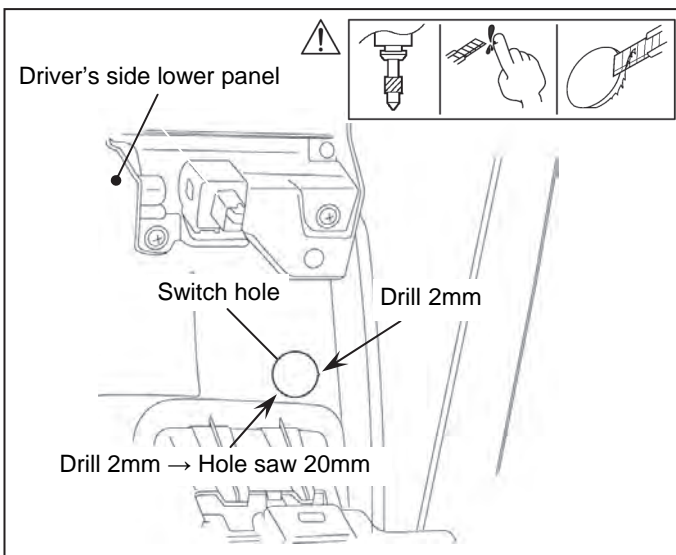


1. Cut the cushioning tape in half as shown in the left figure.

■ Lower panel (driver's side) processing

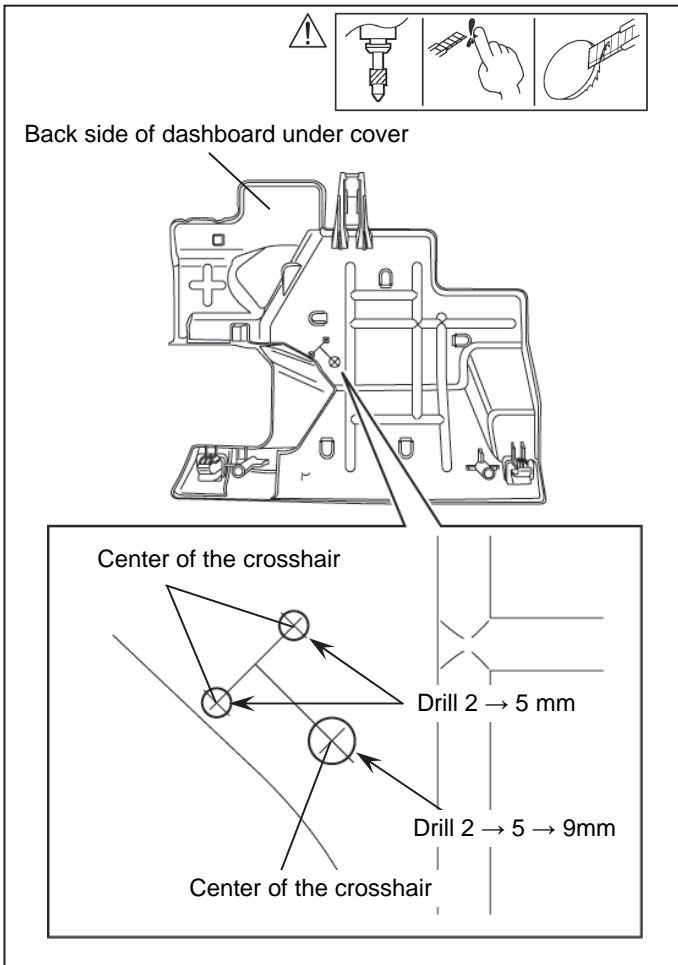


1. Make a drilling mark using a pin in the position shown in the figure on the left from the back side of the driver's side lower panel.
2. Using a pin, mark the center of the seal sensor and the notch processing hole.



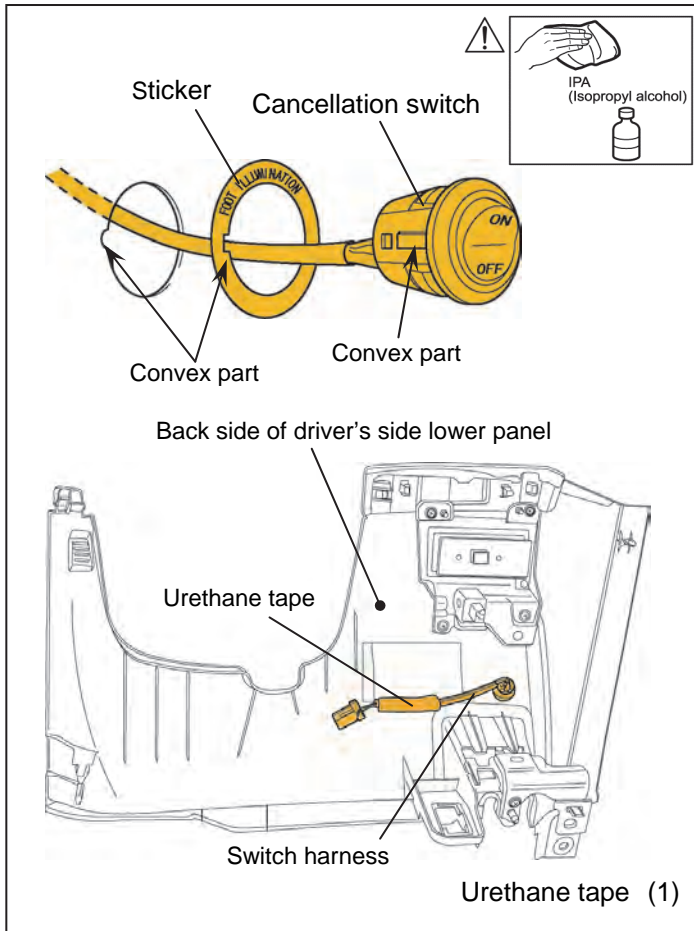
3. Set the drill rotation to low speed.
4. Drill 2mm holes in two locations at the marked positions from the surface side of the driver's side lower panel.
5. Using a hole saw 20mm, drill the switch harness installation hole.

■ Dashboard under cover processing



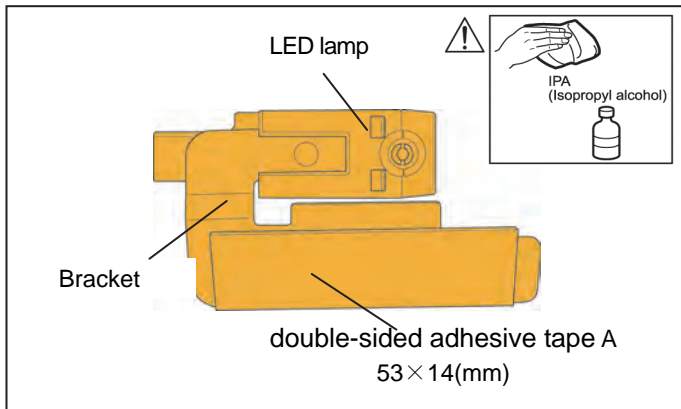
1. Mark the positions shown in the figure on the left by punching holes with a pin.
2. Drill holes in the order of 2 → 5 → 9mm diam. from the backside of the dashboard under cover.

■ Switch harness installation

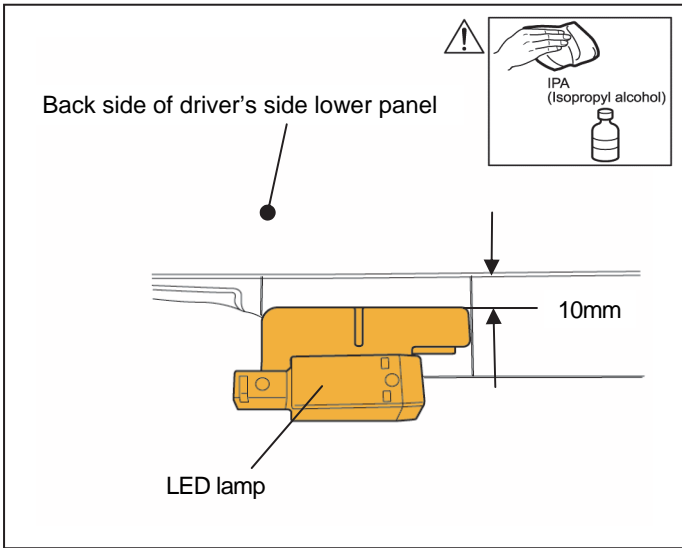


1. Remove the paper backing from the Sticker and adhere the Sticker to the front side of the driver's side lower panel.
2. Install the Cancellation switch by passing it through from the surface of the driver's side lower panel.
3. Wrap urethane tape around the switch harness.

■ LED lamp (driver's side) installation

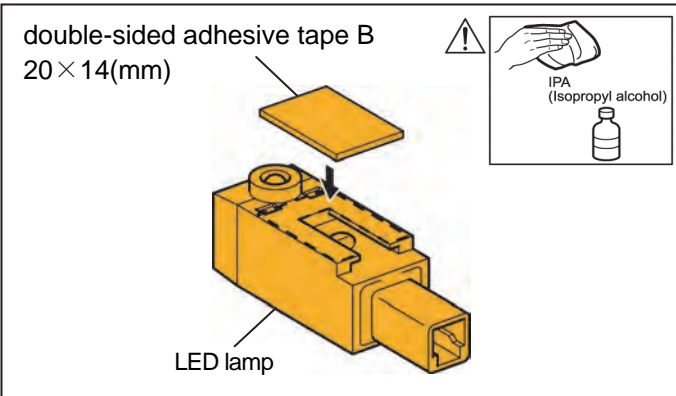


1. Affix the double-sided adhesive tape A to the LED lamp as shown in the figure.

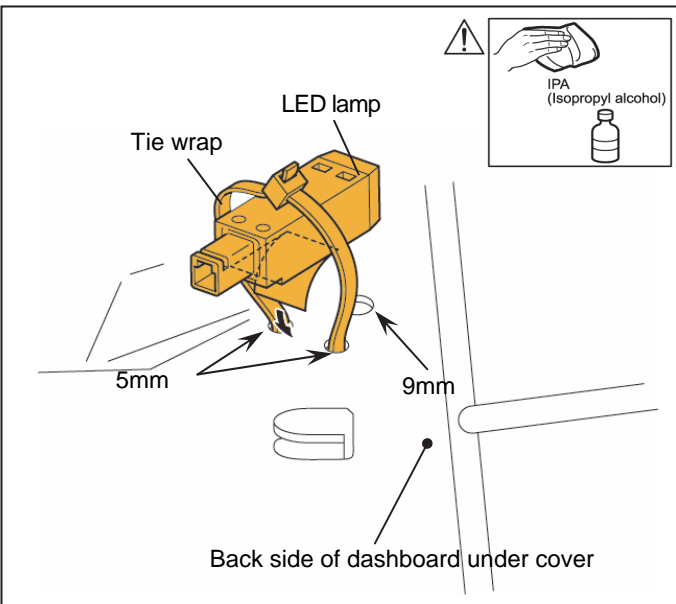


2. Peel off the paper backings of double-sided adhesive tape A, align the LED lamp with the hole drilled (9mm diam.) in the driver's side lower panel and adhere the LED lamp.

■ LED lamp (passenger's side) installation

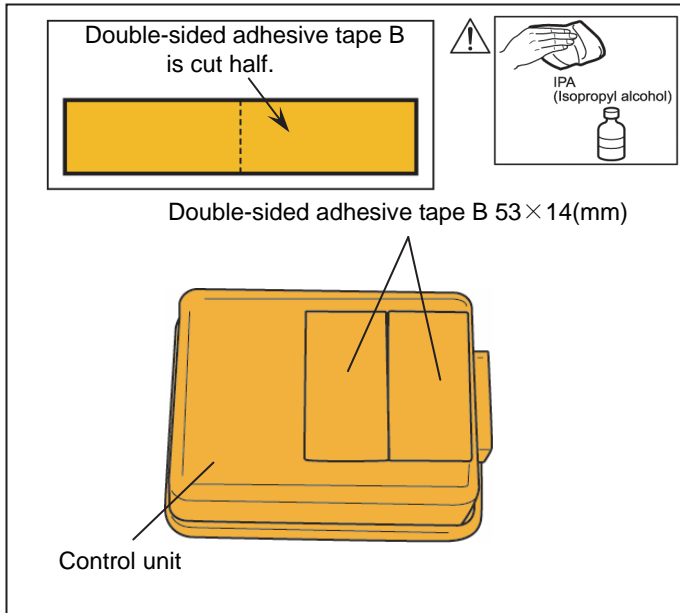


1. Affix the Double-sided adhesive tape B to the LED lamp as shown in the figure.

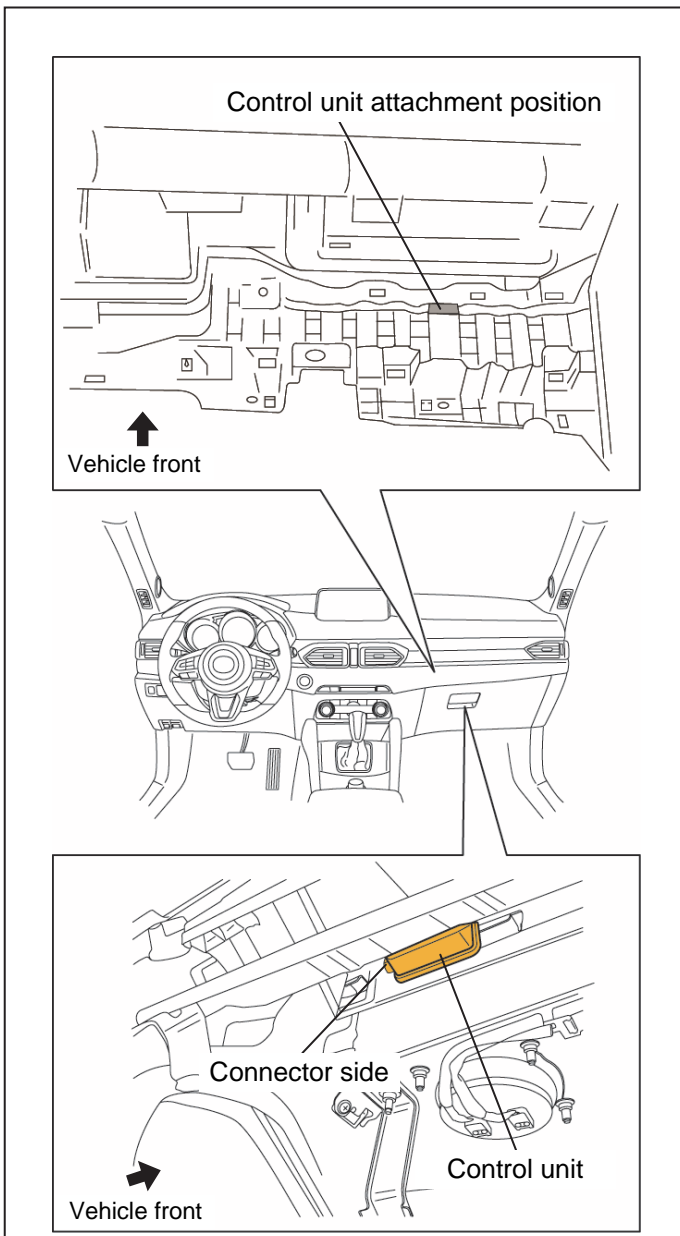


2. Peel off the backing from the double-sided adhesive tape, insert the light-emitting part of the LED (projection) through the 9.0mm hole of the dashboard under cover and affix. At this time, be careful that the 5.0mm holes are not covered by the LED lamp.
3. Route a tie wrap (large) through the 5.0mm holes and around the affixed part of the LED lamp and secure.

■ Control unit installation



1. Apply the double-sided adhesive tape B to the control unit as shown in the figure.



2. Attach the control unit to the backside of the dashboard.

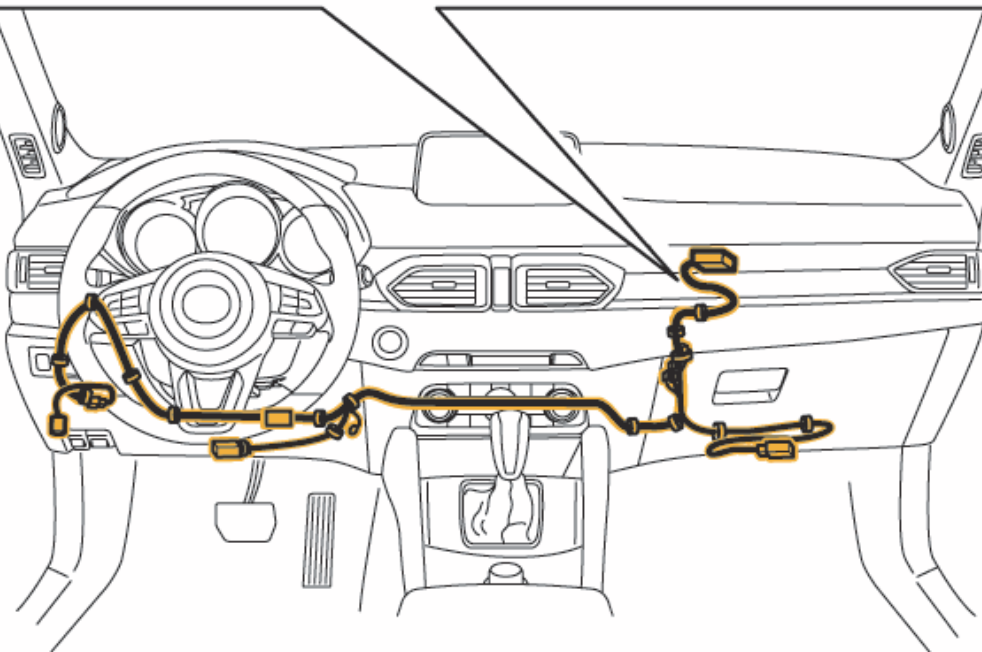
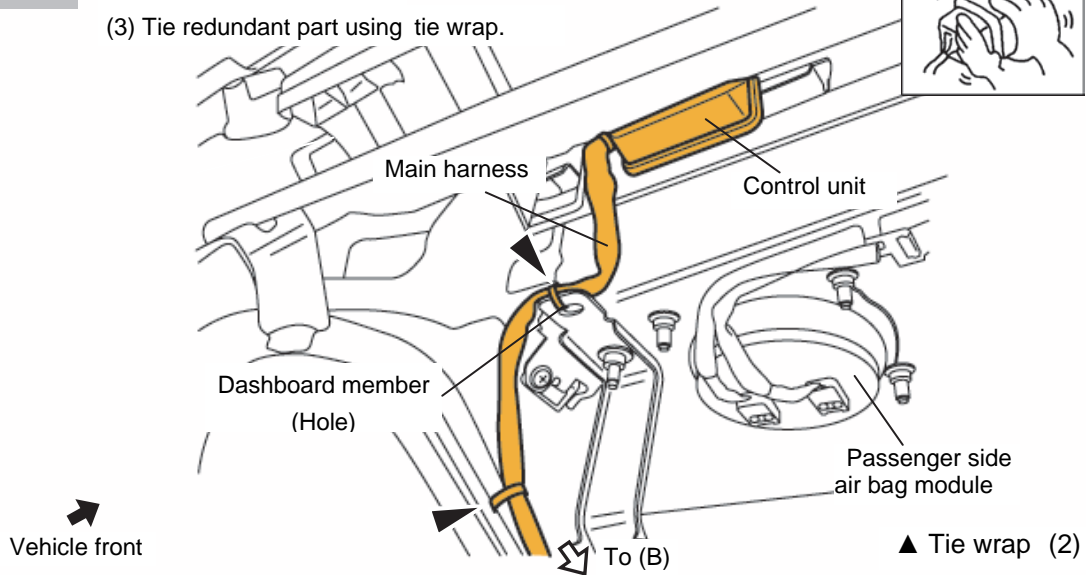
6. INSTALLATION OF MAIN HARNESSES

⚠ CAUTION

- Connect an electro-tap to the indicated signal line securely. Misconnection may cause a system or vehicle malfunction.
- Wrap the electro-tap area using cushioning tape to prevent the occurrence of abnormal noise.

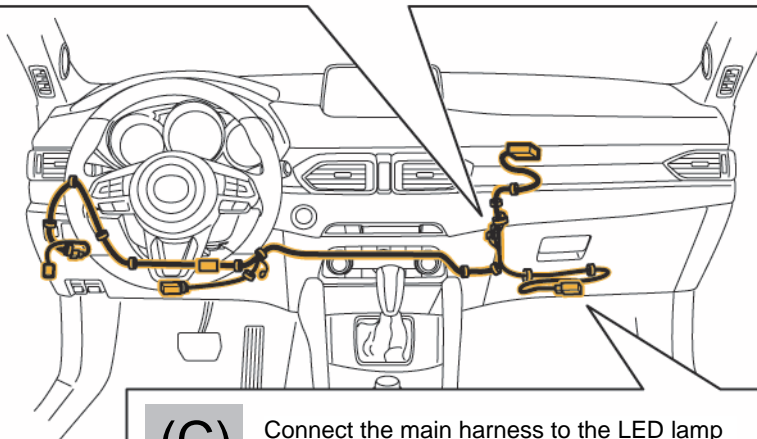
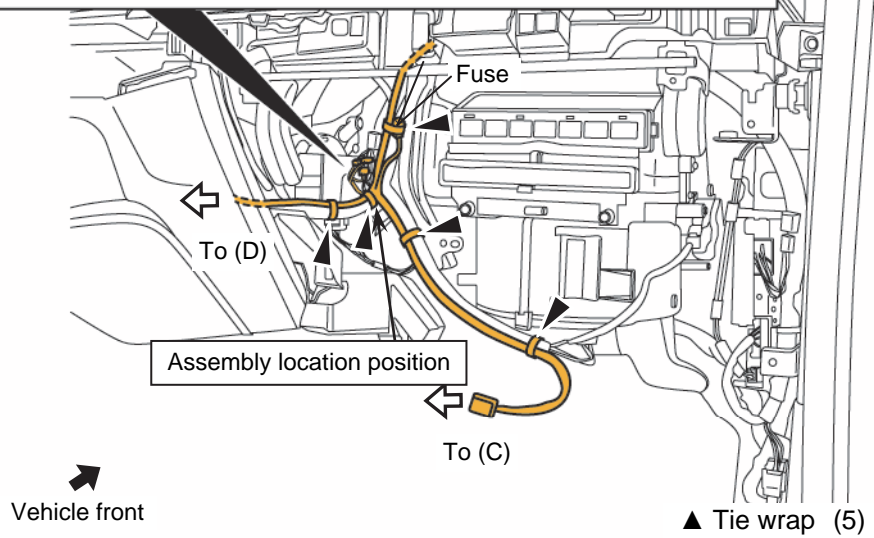
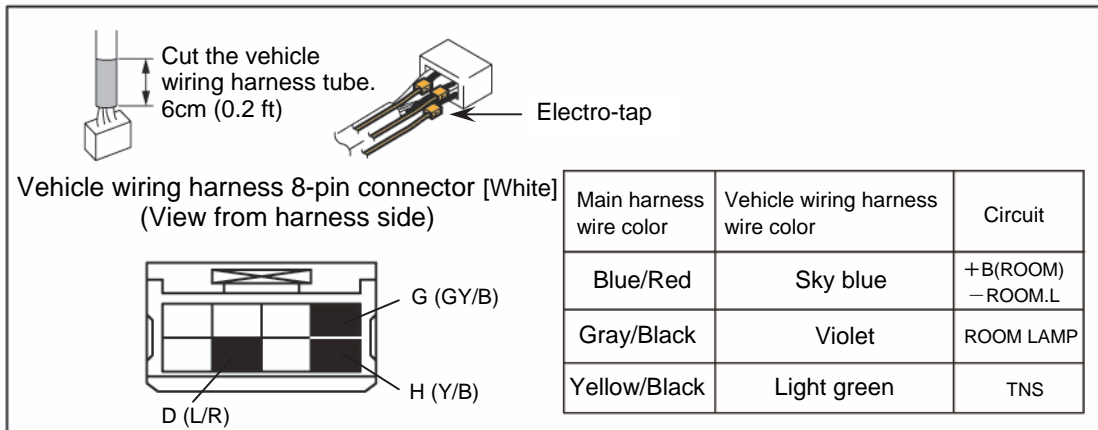
(A)

- (1) Connect the main harness to the control unit.
- (2) Install the main harness.
- (3) Tie redundant part using tie wrap.



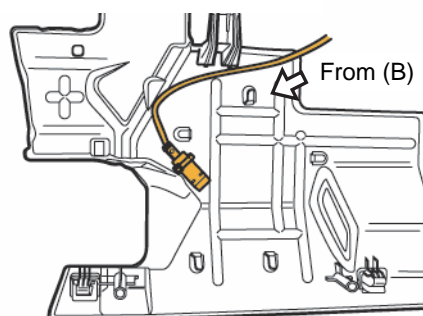
(B)

- (1) Install the main harness.
- (2) Connect each of the 3 wires of the main harness using an electro-taps.



(C)

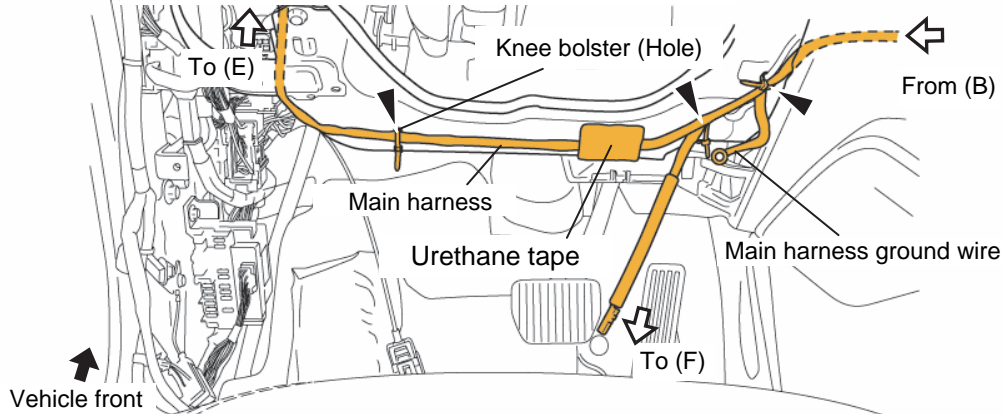
Connect the main harness to the LED lamp (passenger's side).



Vehicle front

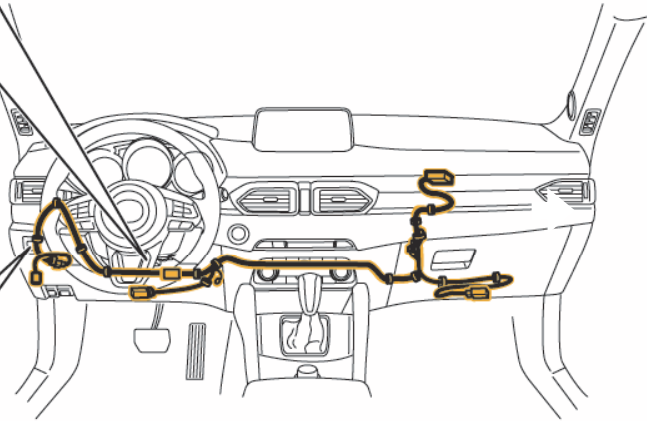
(D)

- (1) Install the main harness.
- (2) Secure the main harness to the vehicle wiring harness using tie wraps.
- (3) Affix the urethane tape to the main harness as shown in the figure.
- (4) Tighten main harness ground wire together with nut.



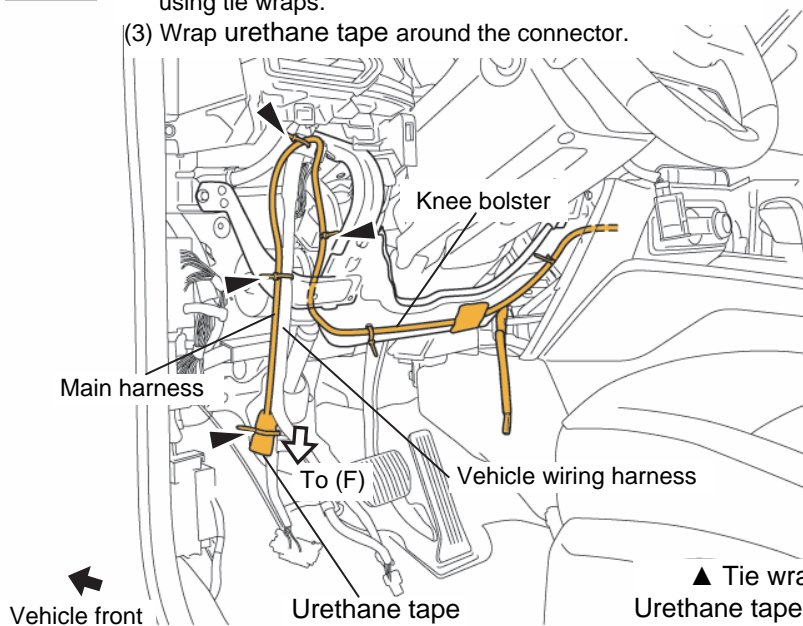
• Nut tightening torque : 8.8–12.7 N·m

▲ Tie wrap (3)
Urethane tape (1/2)

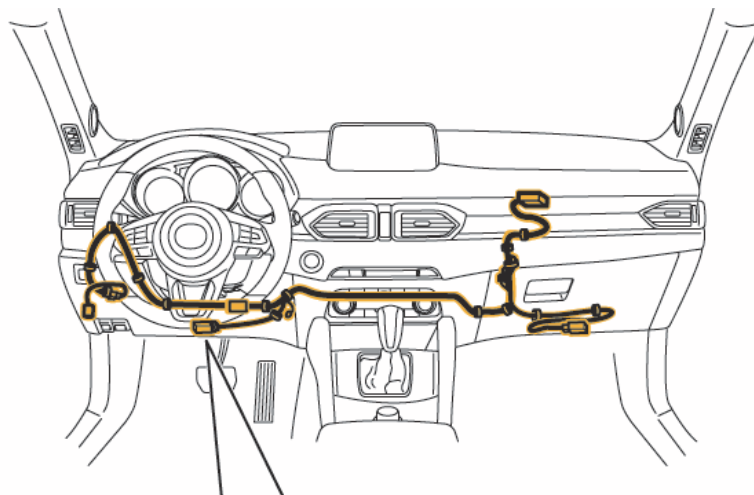


(E)

- (1) Install the main harness
- (2) Secure the main harness to the vehicle wiring harness using tie wraps.
- (3) Wrap urethane tape around the connector.



▲ Tie wrap (4)
Urethane tape (1/2)

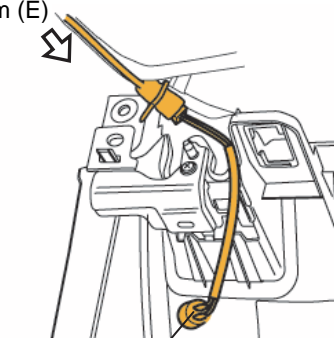


(F)

- (1) Connect the main harness to the Cancellation switch.
- (2) Connect the main harness to the LED lamp (passenger's side).

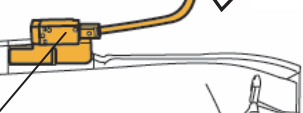


From (E)



Cancellation switch

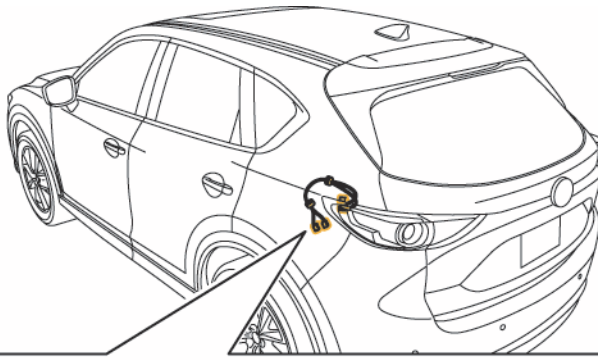
From (E)



LED lamp (passenger's side)

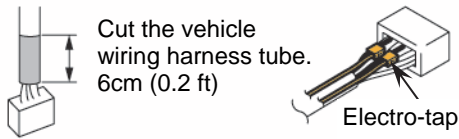
Driver's side lower panel

Vehicle front

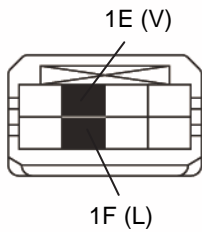


(G)

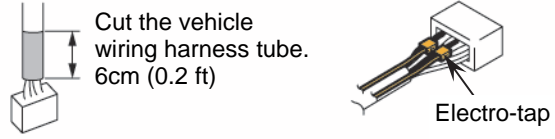
- (1) Connect each of the 4 wires of the sub harness using an electro-taps.
- (2) Secure the sub harness to the vehicle wiring harness using tie wraps.



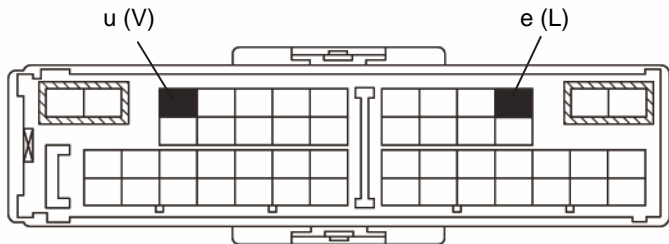
RBCM4 8-pin connector [White]
(View from harness side)



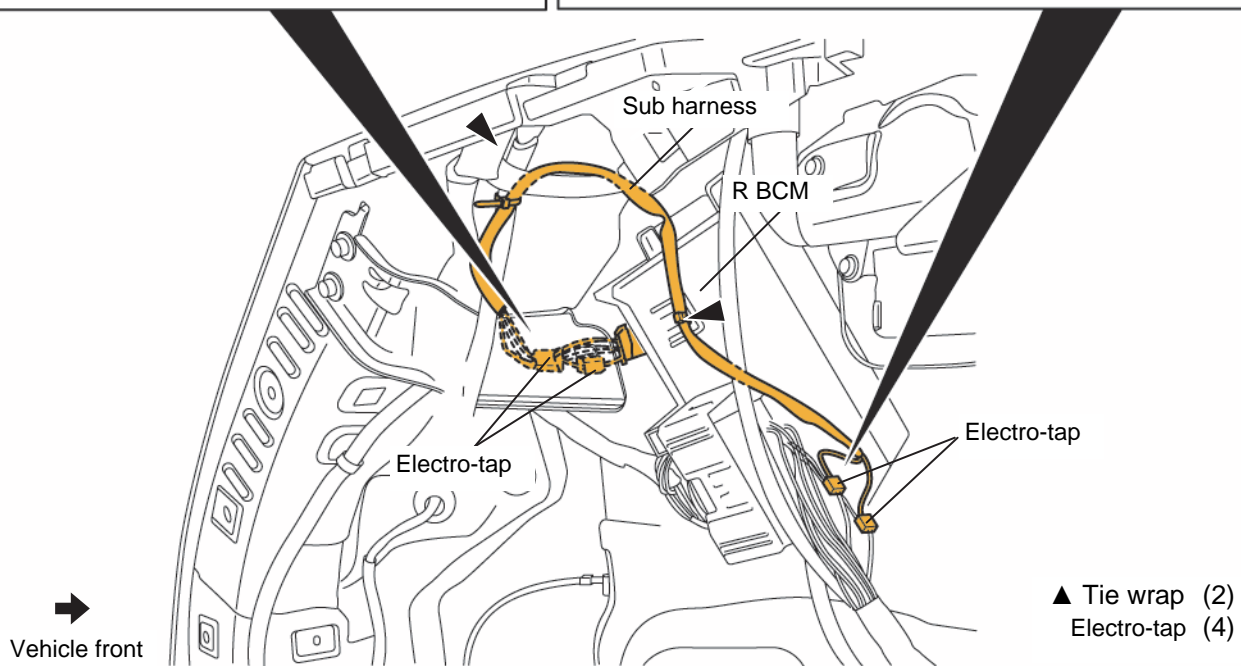
Sub harness wire color	Vehicle wiring harness wire color	Circuit
Violet	Violet	ROOM LAMP
Blue	Blue	+B(ROOM) -ROOM.L



Vehicle wiring harness 22pin connector [Gray]
(View from harness side)



Sub harness wire color	Vehicle wiring harness wire color	Circuit
Blue	Sky blue	+B(ROOM) -ROOM.L
Violet	Violet	ROOM LAMP



7. OPERATION CHECK

1. Reinstall parts in the reverse order of the installation procedure in 【4.VEHICL E PARTS REMOVAL】 .
2. Refer to “Required servicing after disconnecting/connecting negative battery cable” in the vehicle workshop manual or the owner’s manual to restore the vehicle functions.
3. Perform reinstallation and inspection of the vehicle parts.