

# GENUINE Illuminated Cargo Sill

## INSTALLATION INSTRUCTIONS



Thank you for purchasing a Genuine Mazda Accessory.


Before removal and installation, **Please thoroughly read these instructions.**


For your safety, please read the contents of this booklet to properly install the Illuminated Cargo Sill.

Keep these instructions with your vehicle records for future reference.



- There are several  WARNING and  CAUTION sections in this booklet concerning safety when installing or removing Mazda Genuine Accessories. Always read and follow the instructions in order to prevent injuries, accidents, and possible damages.

 **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 by using a torque wrench. For areas in which the tightening torque is indicated inside parentheses ( ), the tightening torque is indicated as a reference value, however tightening using a torque wrench is not necessary.
- Do not modify the Illuminated Scuff Plate.
- Do not install the Illuminated Scuff Plate in any way other than described in the following instructions.
- If in doubt, please contact 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 of dirt, scratches, or damage.

**PART NAME:** Illuminated Cargo Sill

**PART NUMBER:** KMV6V1380



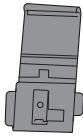


**VEHICLE:** MAZDA CX-90



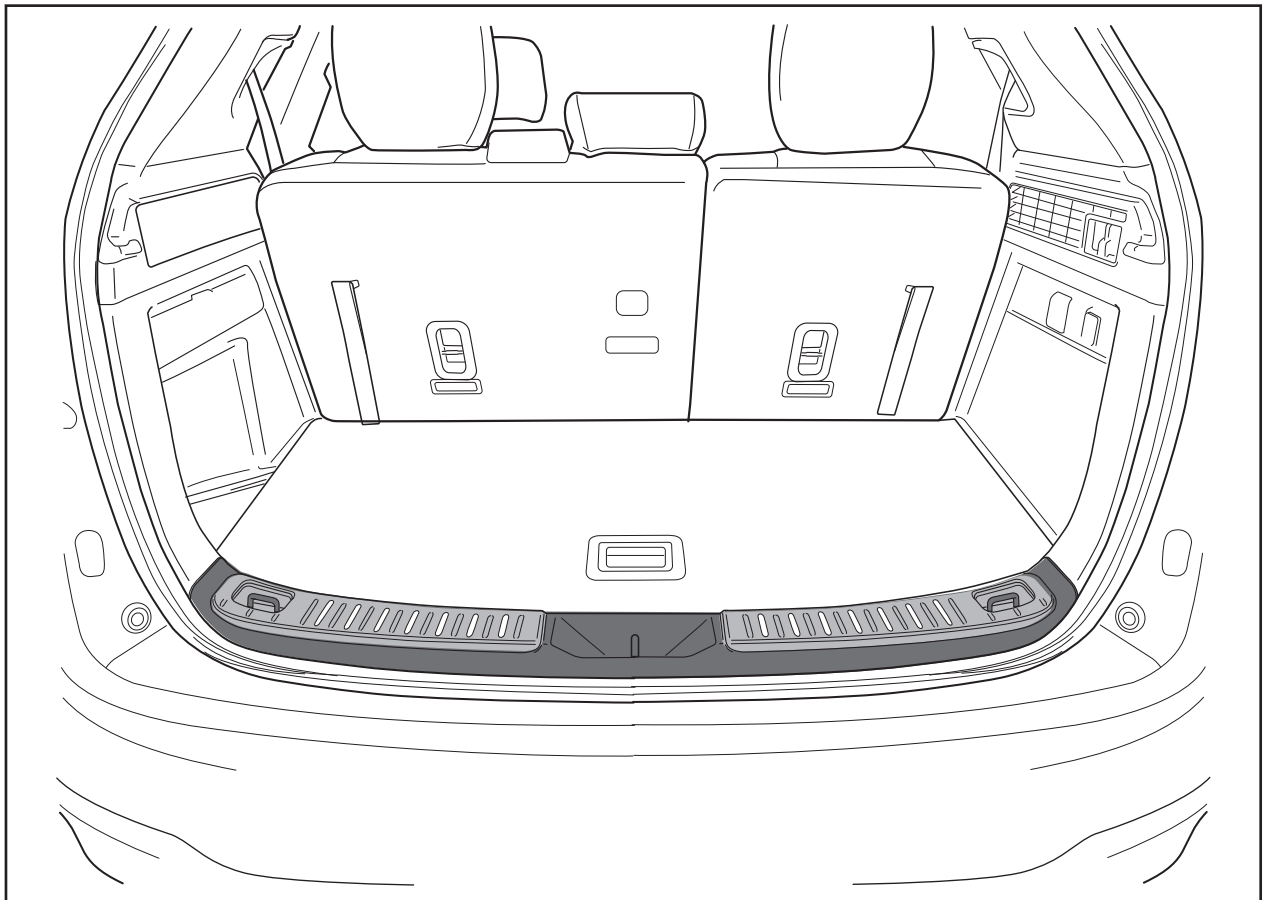
# 1. PARTS

**NOTE**

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

Part	Part name	Qty	Part	Part name	Qty
	Illuminated Cargo Sill	1		Wire Harness	4
	Electro Tap	2		Wire Ties	8
	Foam Tape	4			

# 2. INSTALLATION VIEW



# 3. BEFORE INSTALLATION

## REQUIRED TOOLS

- Nylon Pry Tool
- Tape
- Pliers
- Side Cutters
- Ratchet
- 10mm Socket

## OTHER PREPARATIONS



**CAUTION:** Failure to install this part correctly could result in damage to the vehicle and/or injury to the customer. Make sure to follow the instructions properly to ensure a good installation. Inspect all kit components and check for damage or missing parts. Read the entire installation instructions before proceeding.

### ⚠ 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

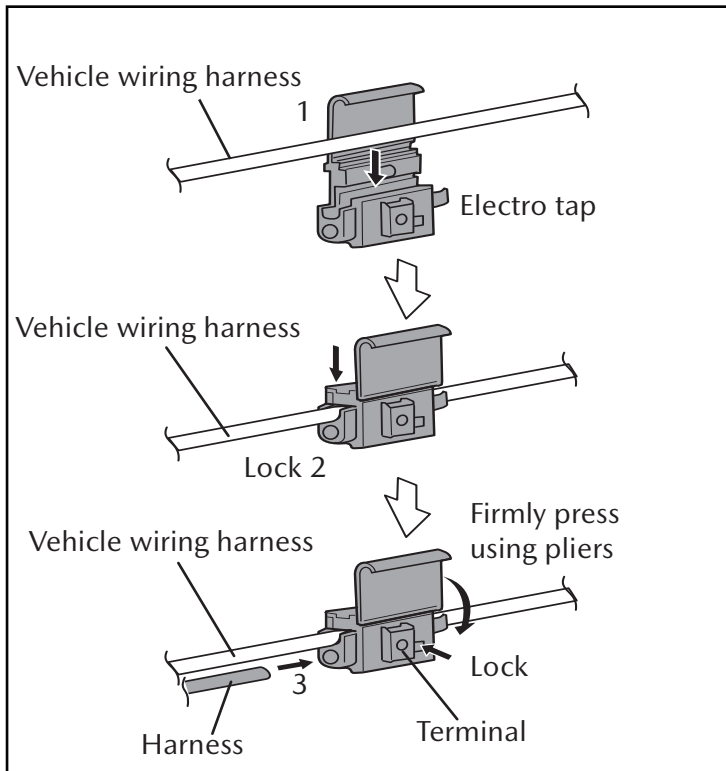
Using improper tools may cause damage and/or broken parts. Use the correct tool for the job.	Wrap protective tape around screw-drivers and fastener remover tools to prevent scratching the vehicle.	Excessive length of tie wrap may interfere with other parts and cause damage	Put the removed parts and the parts in the kit on the protective sheet to prevent scratches
When the negative battery cable is removed, the initial value or memory for the power windows, clock, i-stop, steering angle sensor reference point will be cleared. Perform re-initialization.	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.	To assure sufficient adhesiveness of the double-sided adhesive tape, press the adhesive surface of the tape to the adhesion surface evenly. In particular, press sufficiently at the ends of the double-sided adhesive tape where the adhesion surface is curved.

### ADVICE

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



## Branch connection procedure using electro tap



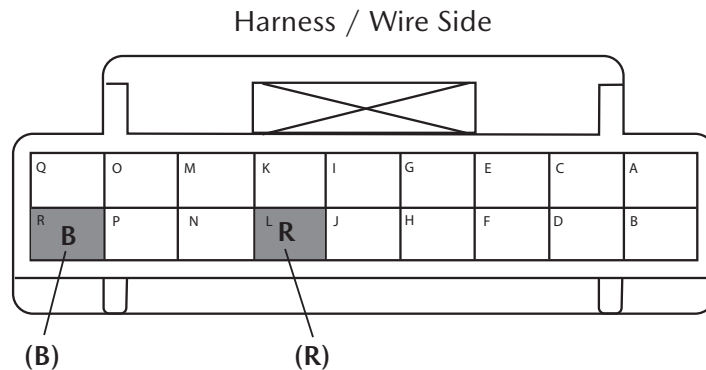
1. Insert the vehicle wiring harness into the electro tap.
2. Fold the electro tap as shown in the figure and lock it.

### ⚠ 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. CONNECTOR DIAGRAM



18 Pin Assembly Connector		
Accy. Harness Wire Color	OE Vehicle Harness Wire Color	Signal
Red (R)	Red (R)	Battery (+B)
Black (B)	Black (B)	Ground (GND)

## ⚠ HIGH VOLTAGE WARNING

On high voltage equipped vehicles, it is mandatory to disconnect the 12v battery system according to the High Voltage Shutdown Procedure outlined on page 5 before continuing with any work in proximity to High Voltage (Orange cables and components). Direct contact with or disconnection of High Voltage (Orange cables and components) is still prohibited in this state. If the necessary measures are not taken before servicing an electric vehicle, it could cause electrical shock and result in serious injury or, in the worst case, death. Before servicing the electric vehicle, follow the High Voltage Shutdown Procedure on page 5 and implement the necessary measures.

## 5. HIGH VOLTAGE SHUTDOWN PROCEDURE

\* FOR PHEV MODELS ONLY

\*\* MDARS IS NECESSARY TO PERFORM THE FOLLOWING ACTIONS

1. Verify that the charging cable is not connected to the charging port.
2. Open rear liftgate, hood, and all passenger doors.
3. Keep the main power switched ON (IG ON/READY on) for 10 sec or more.
4. Switch the main power OFF (IG OFF/READY OFF) and start measuring the time since the main power was switched OFF using a stopwatch.

5. Wait for 5 min.

[Caution]

- If the cooling fan does not stop after 5 min have elapsed since the main power was switched OFF, wait until it stops.
- If the [Battery cooling] operation notification is displayed on the center display, do not make a selection and leave it as it is.
- Do not open or close any vehicle doors including the liftgate or hood.

6. Connect MDARS to the diagnostic connector and switch the main power ON (IG ON/NOT READY).

[Caution]

If you accidentally turn on the main power (IG ON/Ready-ON), you will need to repeat the high voltage discharge. Please start again from step 3.

7. Use MDARS to confirm that the voltage of the following 2 PIDs is 50V or less:

1) DCDC\_IN\_VOLT (V)

2) DC\_CHG\_VOLT (V)

[Caution]

If the voltage has not dropped below 50V, start over from step 4.

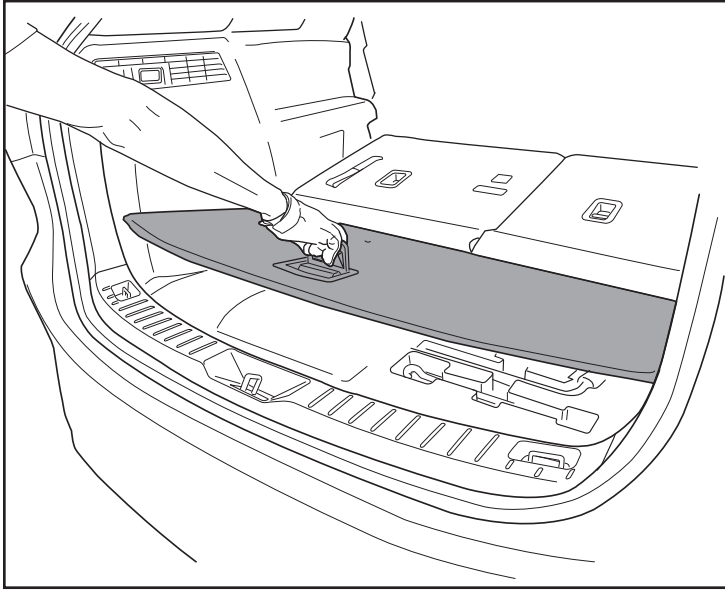
8. Switch the main power off (IG OFF/READY OFF).

9. Disconnect the negative lead-acid battery terminal within 25 min of switching the main power OFF in Step 4.

[Caution]

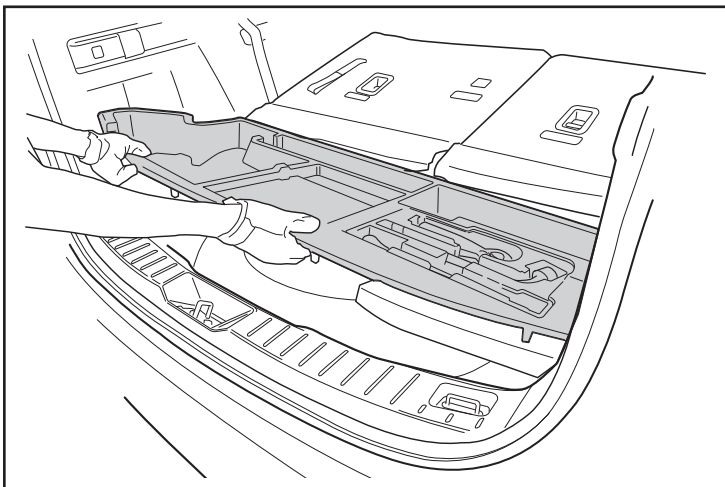
Must be within 25 minutes from step 4. If it takes more than 25 minutes, start over from step 3.

## 6. VEHICLE PART REMOVAL



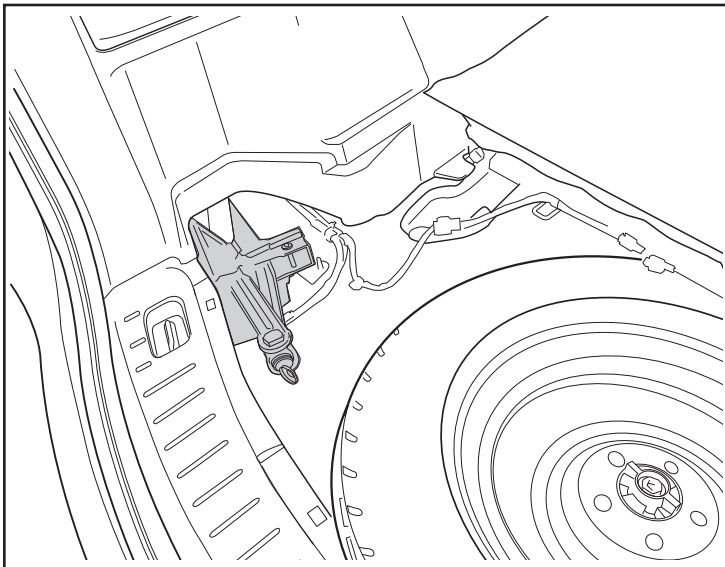
### Trunk Board Removal

1. Open the lift gate.
2. Disconnect negative battery terminal according to vehicle workshop manual.
3. Use handle located on trunk board to lift and remove trunk board from vehicle.

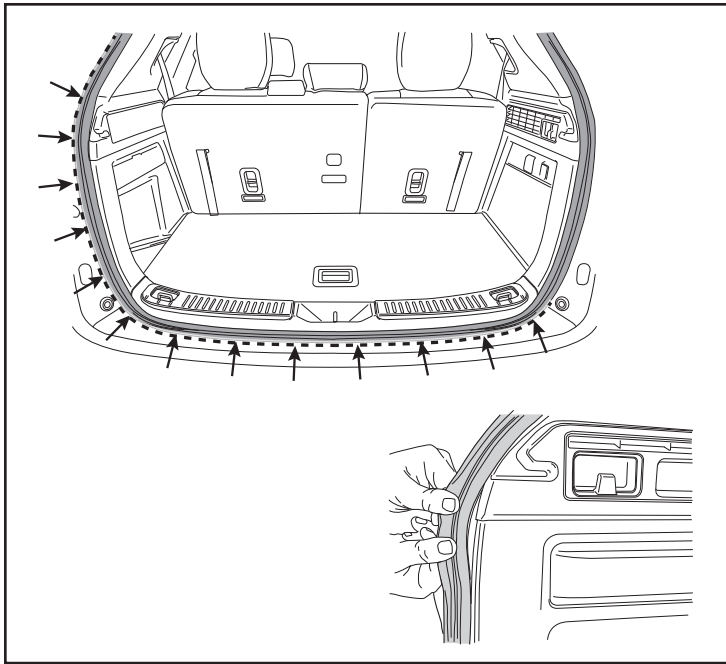


### Trunk Tray Removal

1. Lift and remove trunk tray from vehicle.

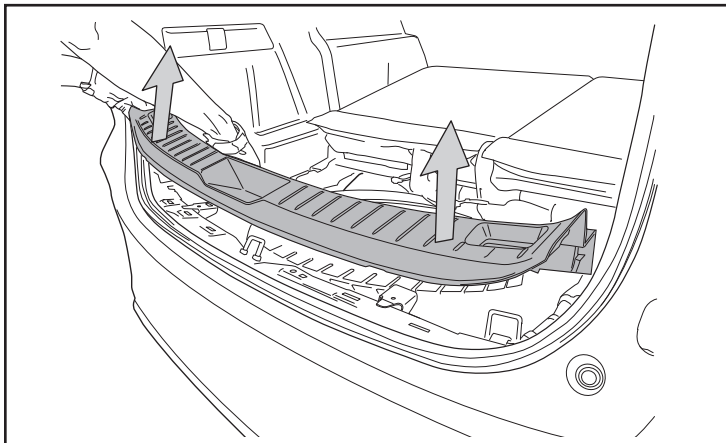


3. Remove vehicle jack from vehicle.



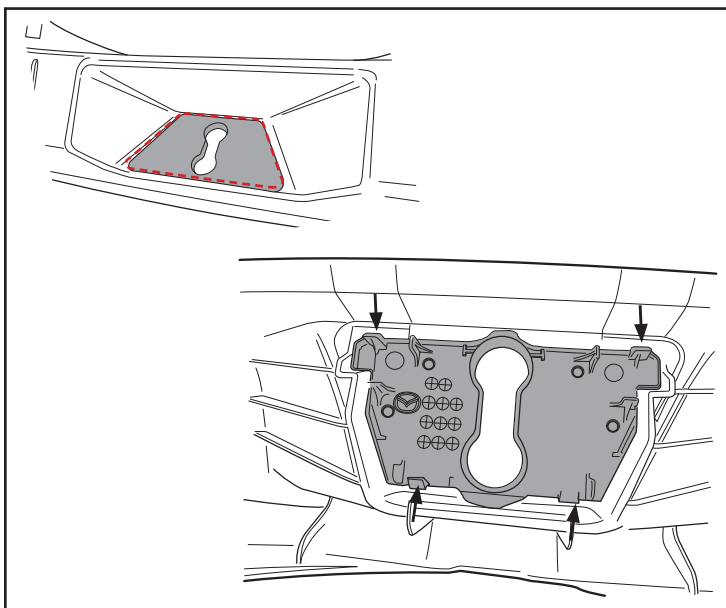
### Weather Strip Removal

- 1 . Gently loosen and partially lift the lower half and left portions of the rear hatch weather strip , but do not remove from vehicle body. Lift just enough to expose gap between vehicle body and interior trims. Removing weather seal from vehicle will expose sealant adhesive which can stain vehicle and is extremely hard to clean.

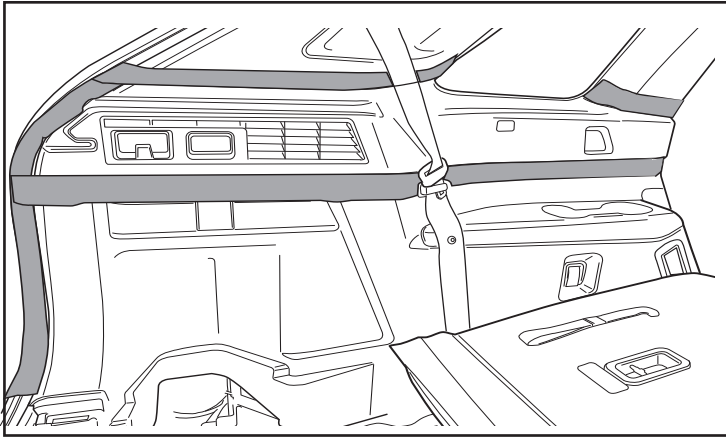


### Rear Cargo Sill Removal

1. Firmly grasp the rear cargo sill trim and pull up to remove from the vehicle. A nylon trim removal tool can be used to aid in the process of removal if needed.

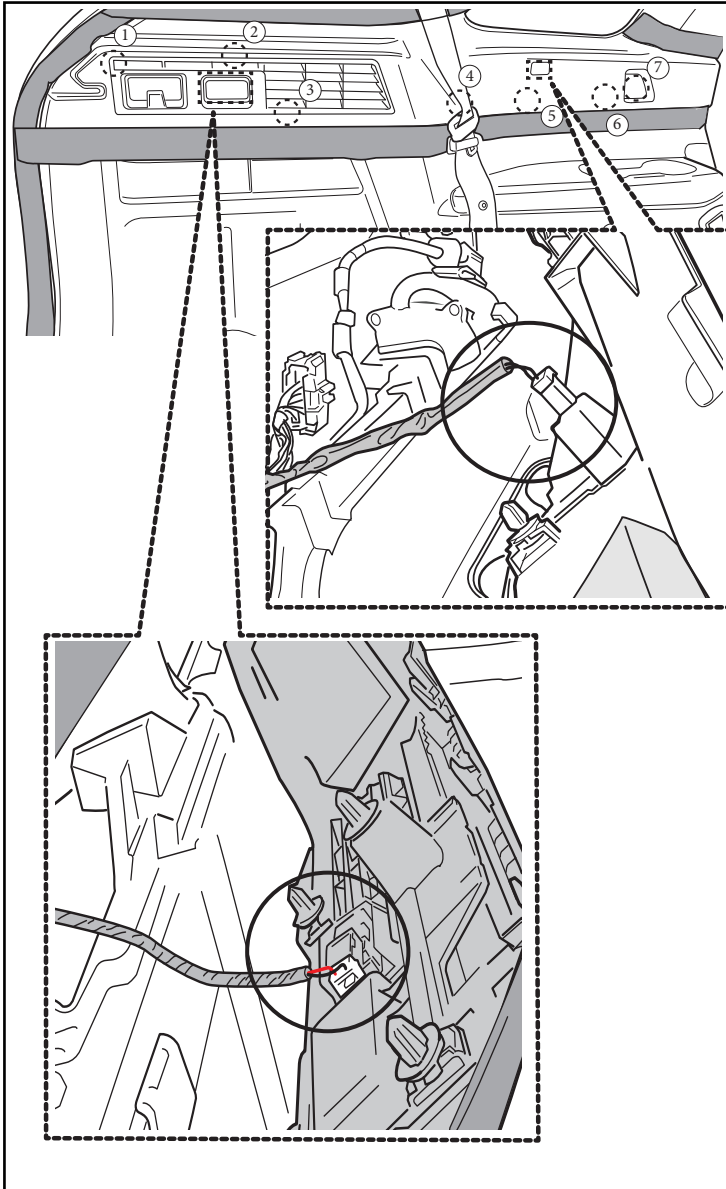


2. Remove center latch cover from rear cargo sill trim by pressing in the four tabs on the backside and set aside for later use.



### Left Hand Trunk Trim Removal

1. Use masking tape to cover all areas.



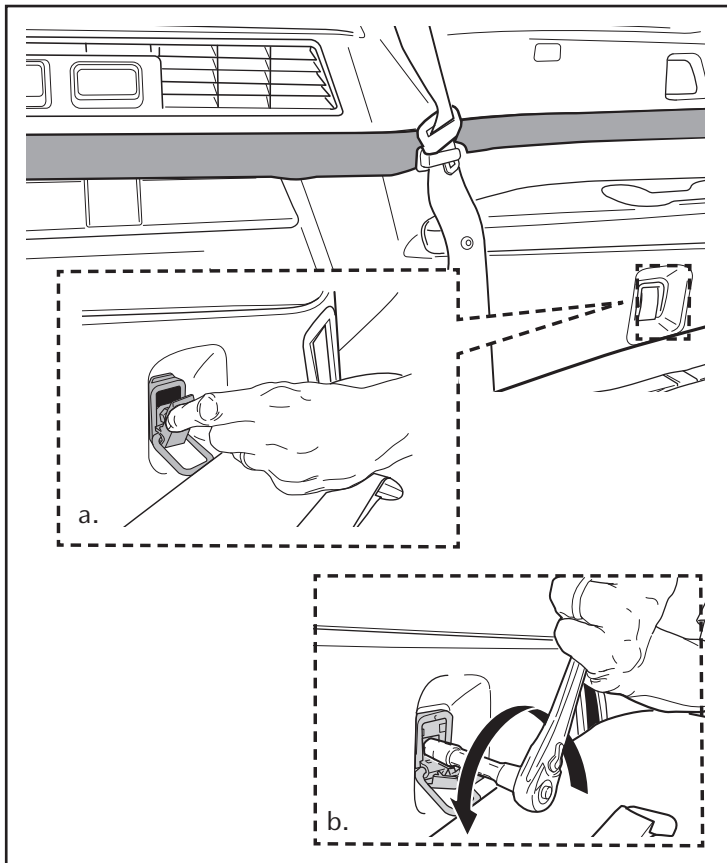
2. Using a nylon trim removal tool, start at the rear end of the center left trim and begin disengaging the retention clips in the order shown.

3. Lightly pull trim away from vehicle and disconnect wire harnesses.

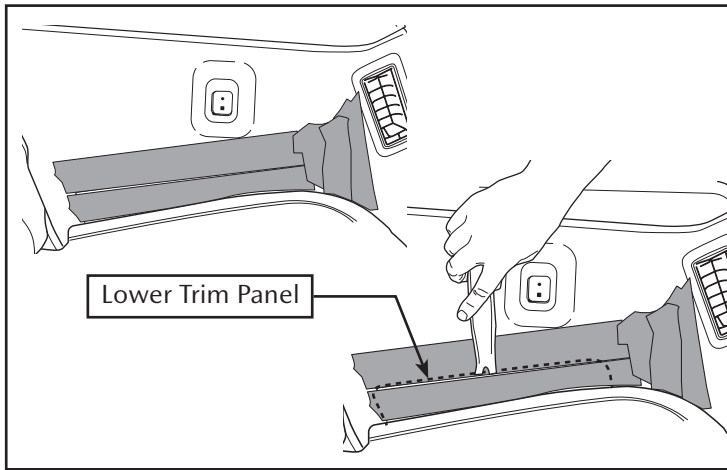
**⚠ WARNING**  
UNPLUG CONNECTORS BEFORE REMOVING TRIM IN ORDER TO AVOID DAMAGING THE OE HARNESS.

4. Finish removing trim panel from vehicle.

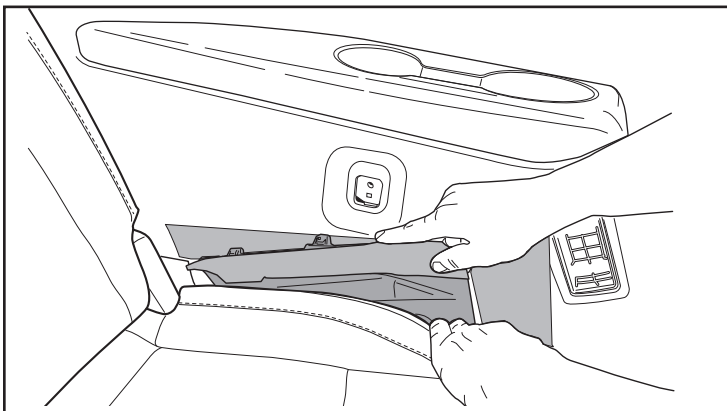




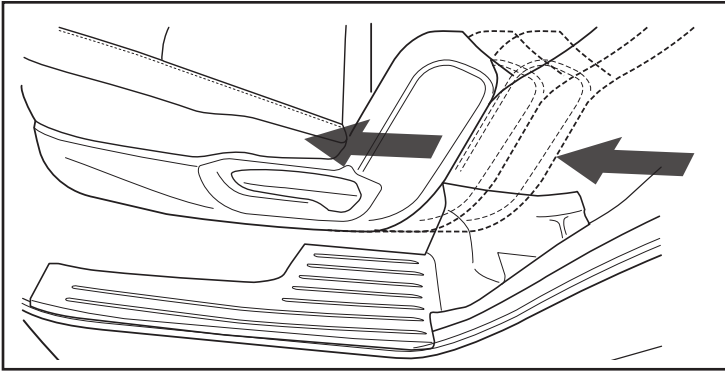
5. Locate cargo hook on lower left panel and lower bolt cover.
6. Use a 10mm socket to remove bolt and remove cargo hook assembly from vehicle.



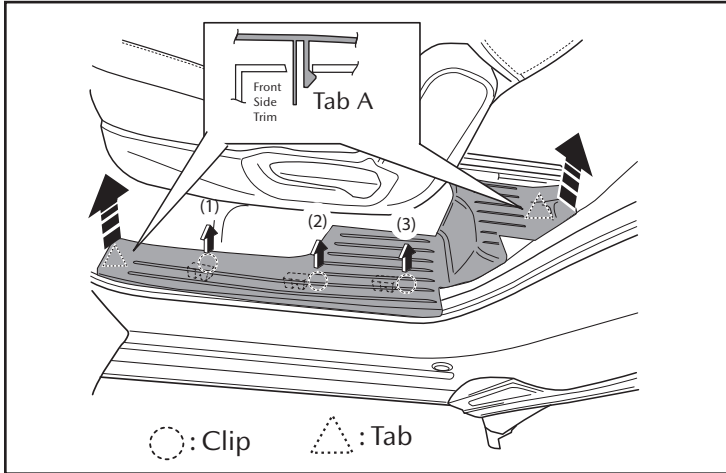
7. With the rear seats upright, use masking tape to mask off the area shown just below the cargo hook area.
8. Use a nylon trim removal tool to pop off lower trim panel.



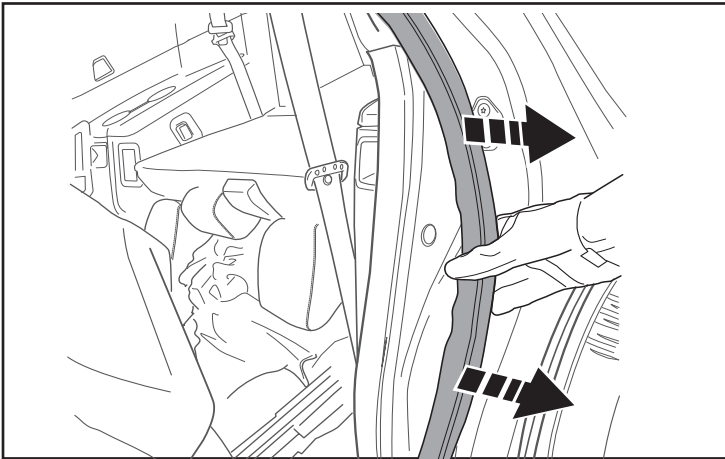
9. Remove lower trim panel from vehicle.



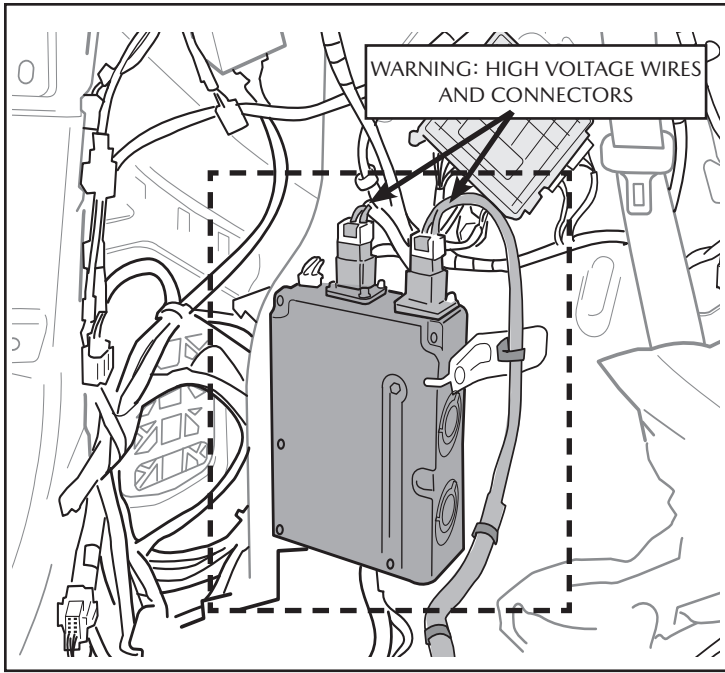
10. Slide rear seats fully forward and lower third row rear seats before proceeding to the next step.



11. Using a Nylon Pry Tool, Lift up on the OE Scuff Plate to dislodge clips. Remove and set aside.

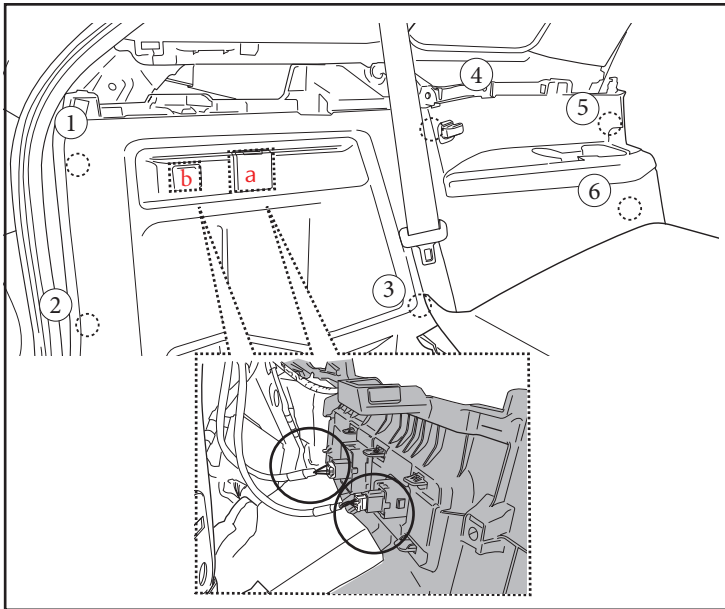


12. Carefully pull weather strip away from pinch rail.



**⚠ WARNING**

**WARNING: REMOVING THE LOWER TRIM TRUNK PANEL ON PHEV MODELS WILL EXPOSE HIGH VOLTAGE COMPONENTS. IT IS REQUIRED TO FOLLOW THE DIRECTIONS UNDER THE HIGH VOLTAGE WARNING ON PAGE 4 BEFORE PROCEEDING. DO NOT ATTEMPT TO CUT, SPLICE, ELECTRO TAP, RELOCATE, OR REMOVE ANY HIGH VOLTAGE COMPONENTS, MODULE, CONNECTORS, AND ORANGE CABLES. FAILURE TO COMPLY CAN CAUSE SERIOUS ELECTRICAL SHOCK. YOUR SAFETY DEPENDS ON IT. PLEASE CONFIRM THAT THE HIGH VOLTAGE SHUTDOWN PROCEDURE ON PAGE 5 HAS BEEN PERFORMED.**



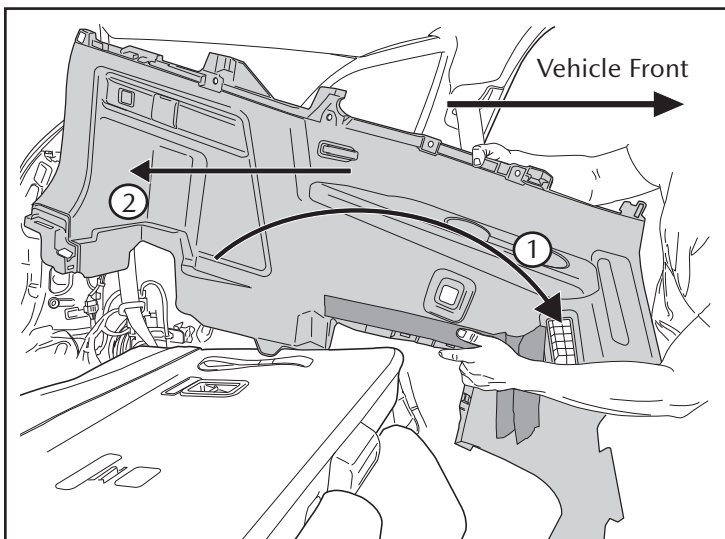
13. Using a nylon trim removal tool, start at the rear end of the lower left trim and begin disengaging the retention clips in the order shown.

14. Lightly pull trim away from vehicle and disconnect wire harnesses.

**⚠ WARNING**

**UNPLUG CONNECTORS BEFORE REMOVING TRIM IN ORDER TO AVOID DAMAGING THE OE HARNESS.**

15. Finish removing trim panel from vehicle.

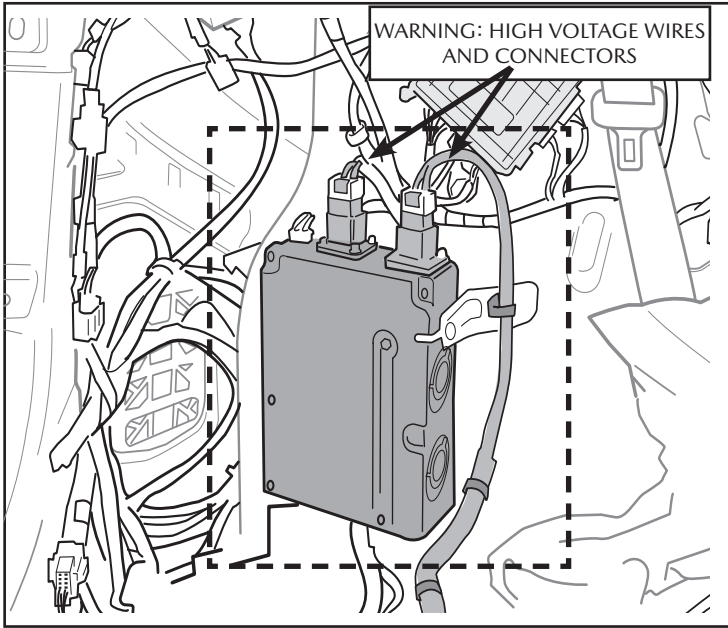


16. Pull panel towards the front of the vehicle to release from under third row seat while simultaneously lifting up. Once panel is free from vehicle, finish removing trim panel through rear hatch.

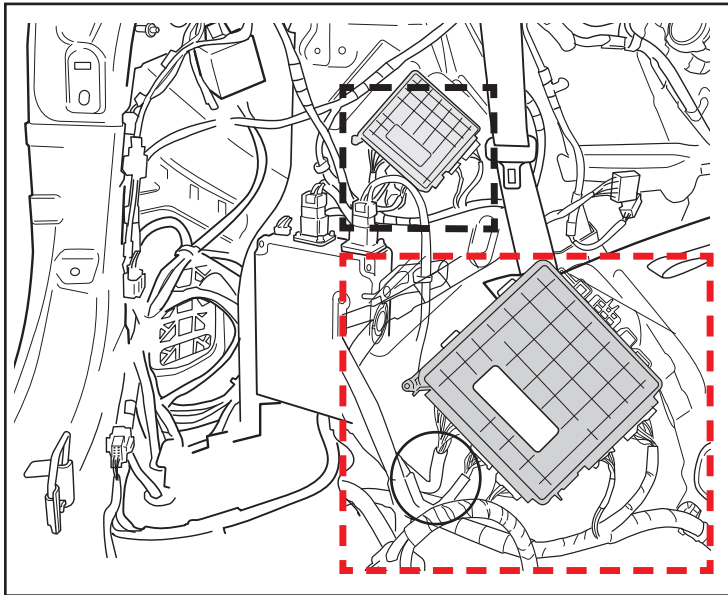
**⚠ CAUTION**

**Be careful not to bump or touch other vehicle parts when removing trim panel. Failure to follow may result in vehicle damages such scratches and/or scuffs.**

# 7. INSTALLATION

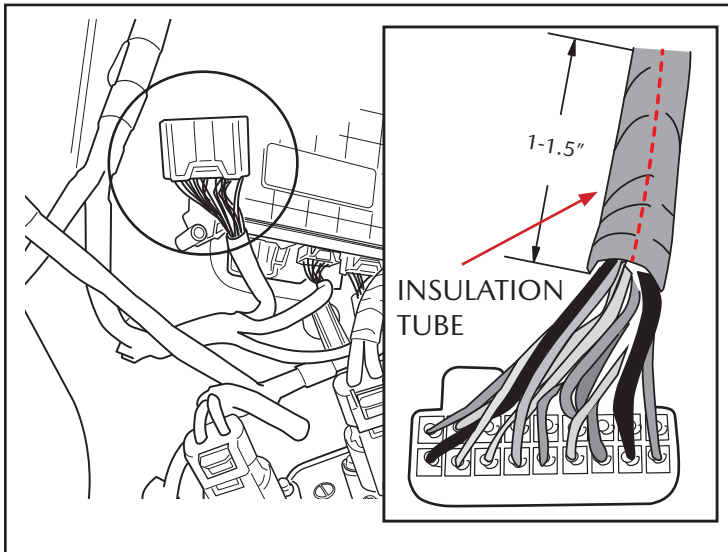


**⚠ WARNING**  
**WARNING: REMOVING THE LOWER TRIM TRUNK PANEL ON PHEV MODELS WILL EXPOSE HIGH VOLTAGE COMPONENTS. IT IS REQUIRED TO FOLLOW THE DIRECTIONS UNDER THE HIGH VOLTAGE WARNING ON PAGE 4 BEFORE PROCEEDING. DO NOT ATTEMPT TO CUT, SPLICE, ELECTRO TAP, RELOCATE, OR REMOVE ANY HIGH VOLTAGE COMPONENTS, MODULE, CONNECTORS, AND ORANGE CABLES. FAILURE TO COMPLY CAN CAUSE SERIOUS ELECTRICAL SHOCK. YOUR SAFETY DEPENDS ON IT. PLEASE CONFIRM THAT THE HIGH VOLTAGE SHUTDOWN PROCEDURE ON PAGE 5 HAS BEEN PERFORMED.**

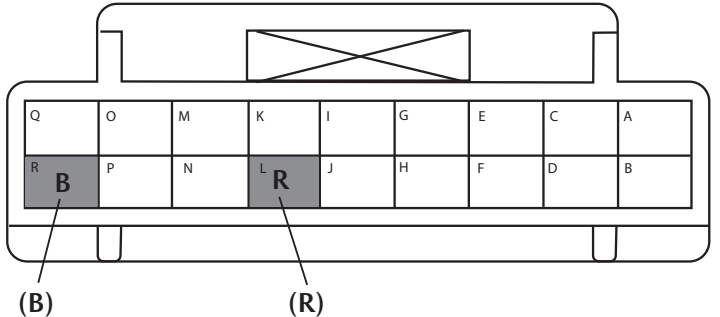


### Wire Harness

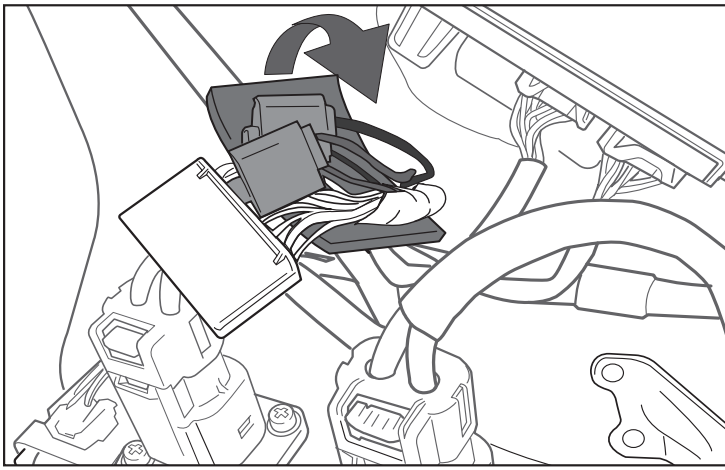
1. Locate 18 pin connector in rear BCM.
2. Disconnect 18 pin connector.
3. Carefully trim wire insulation tube back 1-1.5 inches as needed to allow room for electro taps. Tape back up with electrical tape after installation.
4. Identify the Battery (red) and Ground (black) wires of the OE 18 pin connector as indicated in the below diagram.



Harness / Wire Side



18 Pin Assembly Connector		
Accy. Harness Wire Color	OE Vehicle Harness Wire Color	Signal
Red (R)	Red (R)	Battery (+B)
Black (B)	Black (B)	Ground (GND)

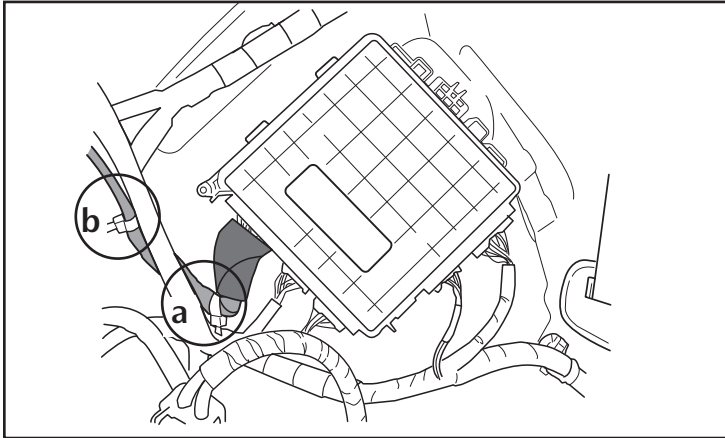


5. Use an electro tap to connect the accessory harness battery wire (red) to the OE 18 pin connector battery wire (red). Refer to the branch connector procedure on page 4 for instructions.

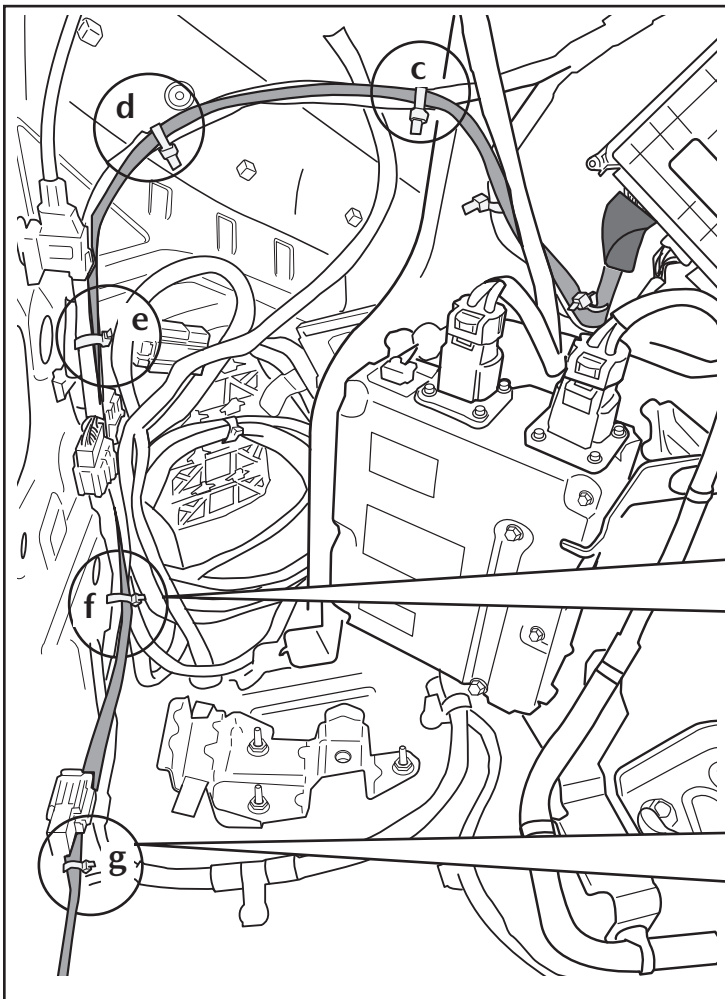
6. Use an electro tap to connect the accessory harness ground wire (black) to the OE 18 pin connector ground wire (black). Refer to the branch connector procedure on page 4 for instructions.

7. Wrap the two electro taps with Foam Tape as shown.

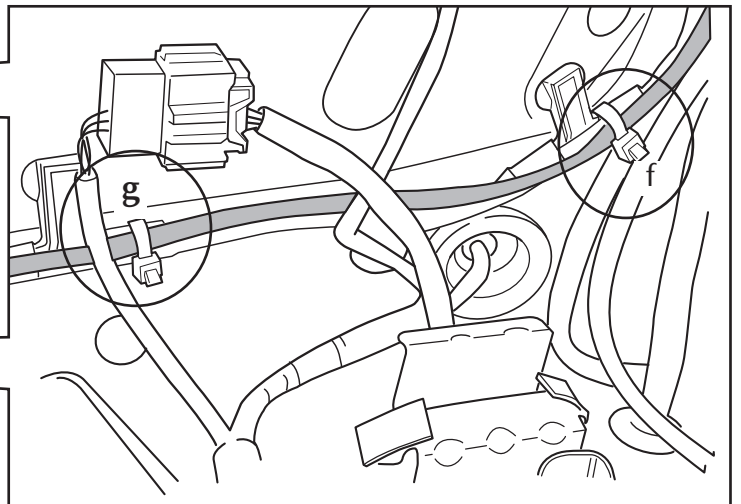
8. Reinsert OE 18 pin connector into the rear BCM.



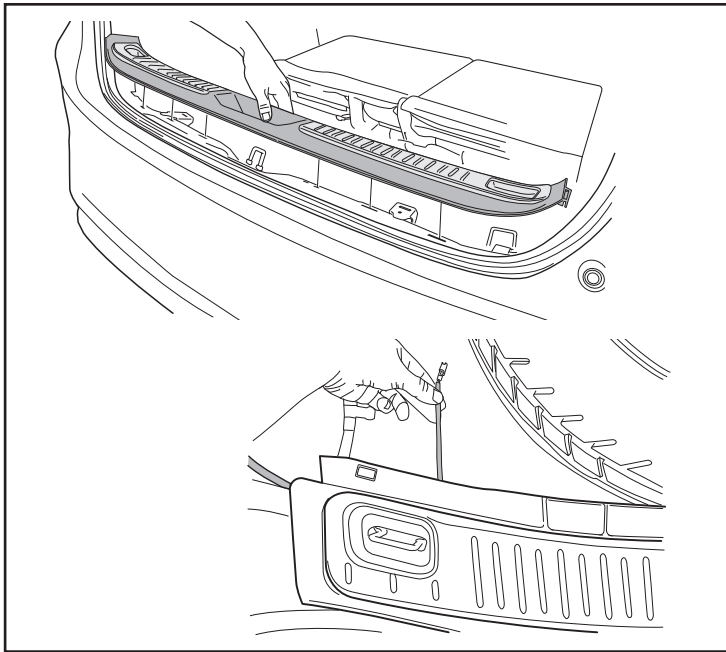
9. Use a wire tie to attach the accessory wire harness to the OE wire harness at points a. and b. Remove all slack and use side cutters to trim wire tie ends.



10. Continue routing accessory wire harness along OE wire harness and use a wire tie to attach at points c, d, e, f, and g. Remove all slack and use side cutters to remove all wire tie ends.





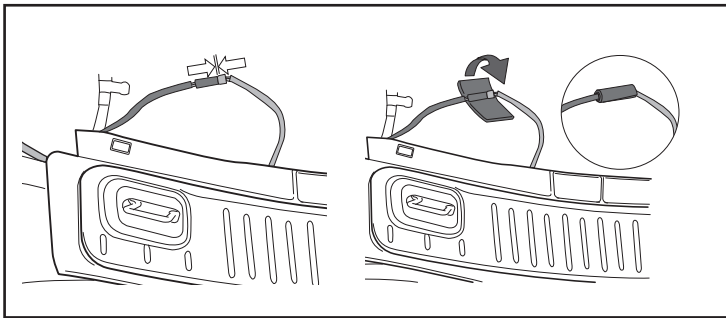


11. Fully reinstall lower left trim panel before installing Illuminate Rear Cargo Sill.

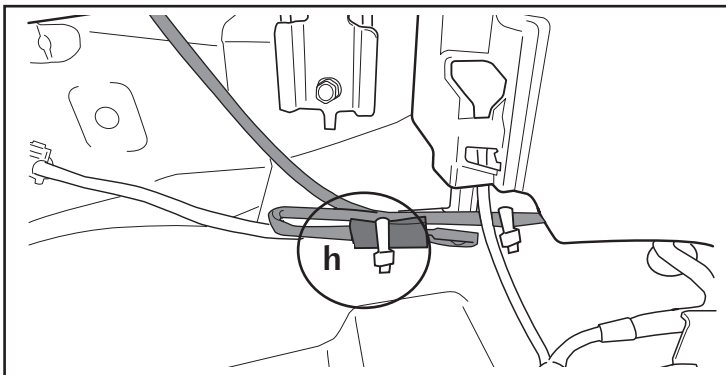
**⚠ WARNING**

**WARNING: DO NOT PROCEED UNTIL OE LOWER LEFT TRIM PANEL IS REINSTALLED. FAILURE TO DO SO WILL RESULT IN HAVING TO REMOVE THE ILLUMINATED REAR CARGO SILL**

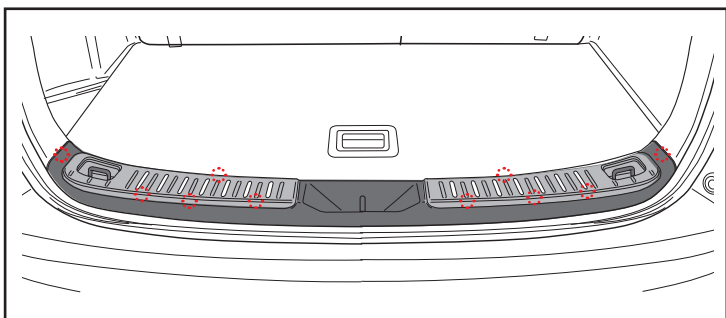
12. Insert OE center latch cover into accessory Rear Cargo Sill.
13. Position Illuminate Rear Cargo Sill over the clip locations ensuring that the wire harness is not being pinched and is pointing towards the inside of the vehicle. **DO NOT ENGAGE ATTACHMENT CLIPS AT THIS TIME!**



14. Connect accessory wire connector from the Illuminate Rear Cargo Sill to the connector on the accessory wire harness and wrap with foam tape as shown.



15. Coil the connector and accessory wire harness as shown while ensuring all slack is removed and secure to OE wire harness with a wire tie at point h. Use side cutters to trim wire tie end.



16. Using downward pressure, fully seat the Illuminate Rear Cargo Sill to engage the clips.

**8. REASSEMBLE VEHICLE**

1. Reinstall vehicle components in the reverse order that they were removed.

# 9. INSTALLATION INSPECTION SHEET

[To be used by installation workshop]

Mazda CX-90	Illuminated Cargo Sill
	All models

Inspect the installed parts per the items listed below

INSPECTION ITEMS	OK	NG	COMMENTS
Dings/Dents/ Creases/Indentations			
Scratches/ Stains			
Tape Residue/ Fingerprints			
Check Light Feature is Operational			

Date		(year/month/day)			
VIN No.					
Approved		Checked		Prepared	

\*Retention period of this sheet: 12 months