

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject:

HYBRID SYSTEM MALFUNCTION P2BC5, P2BC6 OR P2BCC

Bulletin No.: 30-003/26

Last Issued : 07/17/2026

BULLETIN NOTES

APPLICABLE MODEL(S)/VINS

2024-2026 CX-90

2025-2026 CX-70

DESCRIPTION

Some vehicles may experience the warning message "A 'Hybrid System Malfunction. Have the Vehicle Inspected' and DTC P2BC5:00 (OBC contactor (+) stuck ON) and/or other DTCs listed below may be stored. If this condition is present, follow the Repair Procedure below to replace the Junction Box No.2.

- P2BC5:00: OBC Contactor (+) system: Stuck On
- P2BC6:00: OBC Contactor (+) system: Stuck Off
- P2BCC:00: OBC Contactor (-) system: Stuck On

This is caused by an issue with the contact welding of the OBC contactor contacts.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify the customer concern.
2. Replace Junction Box 2 (+) according to the following procedure.

NOTE: MASH authorization is required for all parts replacement. Review Mazda Warranty Policies and Procedures Policy No.:3.28 for details.

WARNING: Exposure to high-voltage electrical systems and battery components can cause severe injury, electrical burns, shock, arc flash events, and death if handled improperly. All service, repair, diagnostics, disabling, re-energizing, and handling of high-voltage systems and components on hybrid, plug-in hybrid (PHEV), and battery electric vehicles (EV) **must** be performed **only** by technicians who have completed high-voltage training and hold the appropriate certification/qualification for high-voltage work.

IMPORTANT: This repair **requires** Master Certification and completion of **Course 40086ILT - High Voltage Battery Repair ILT**.

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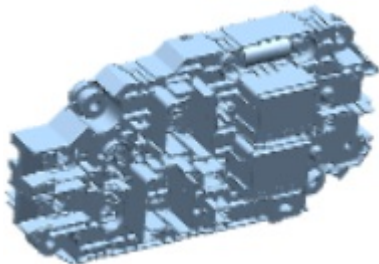
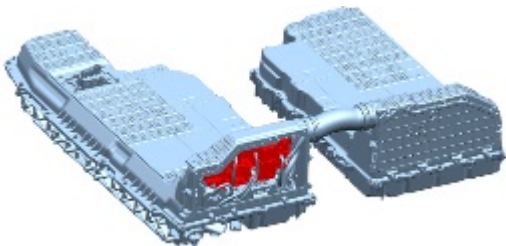
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JUNCTION BOX ASSY FR-LH REMOVAL

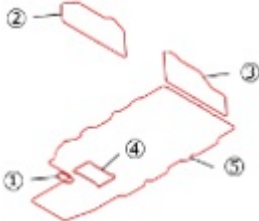
WARNING: If the following sign  is indicated in the procedure, high-voltage components (live parts with over 50V) are involved. Make sure to take the necessary actions before servicing an electric vehicle, or you may get an electric shock that can result in a serious injury or death in the worst case. Before servicing the electric vehicle, refer to the (HIGH-VOLTAGE SERVICE CAUTIONS) in MGSS and make sure to take all necessary actions to start services This repair can only be performed by properly trained technicians.

Items to be prepared

[Reference]

Target parts	Location (red part)
	

[Non-reusable parts]

Part number	Location (red part)
(1) KBB4-302K5 (2) KBB3-302K3 (3) KBB4-302K3 (4) KBB4-302K8 (5) KBB4-302K2	

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NOTE: When performing the procedure below, use only hand tools and calibrated torque wrenches for all internal work and reassembly operations.

a. Remove the HV Battery. Refer to HIGH-VOLTAGE BATTERY REMOVAL/INSTALLATION.

NOTE: Refer to the video for the removal of the EV cable between the inverter and the battery. The cable should only be disconnected from the battery side.



High Voltage Battery Replacement Tutorial Video

b. Remove the COVER ASSY-BAT [⚡]. See: COVER ASSY-BAT left side.

NOTE: The tutorial video linked below is available for reference.



Junction Block 2 Replacement Tutorial Video

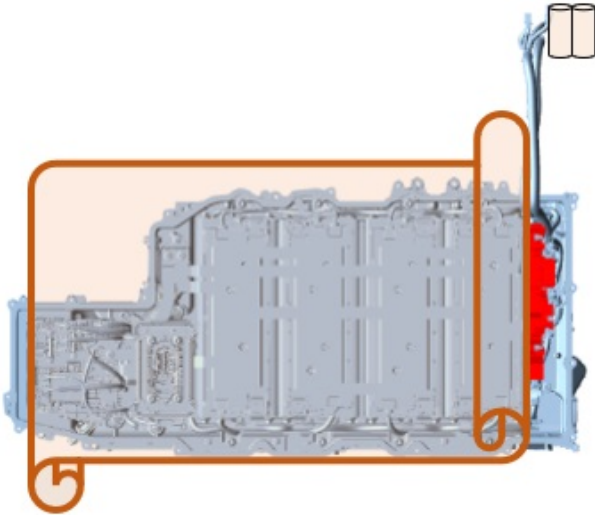
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c. Check the coverage area of the insulating sheet [W].

NOTE: The insulating mat was included in the HV Safety kit auto shipped to dealers (49HV21KIT2) and is available separately from the Mazda Tool & Equipment site (230-JDI-IM).

WARNING: The insulating mat must always cover parts other than the parts to be worked on.

*Red: Parts to be worked on.



d. Remove the BUSS BARS shown in the images.



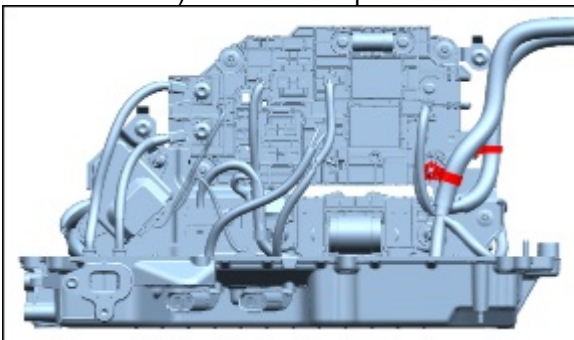
1) Lift the terminal covers of battery BUSS BARS and remove the nuts to remove the BUSS BARS.

Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)

2) Close the terminal covers after removing each BUSS BAR.

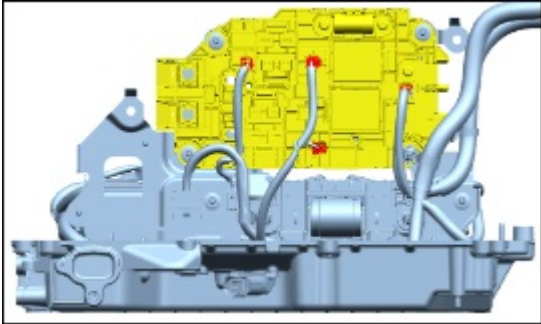
e. Remove the JUNCTION BOX ASSY RR-LH.

1) Detach the clip.

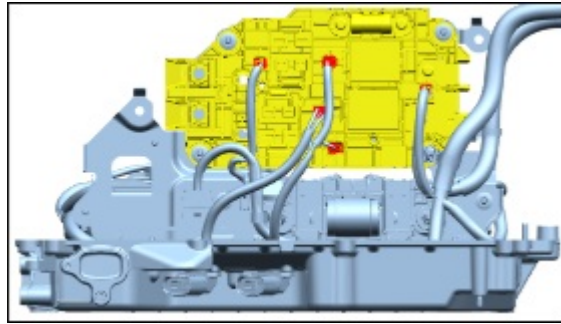


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- 2) Disconnect the connector.
w/o DCAC



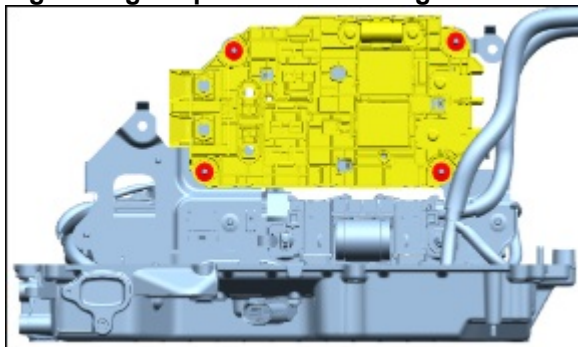
w/ DCAC



- 3) Remove the 2 bolts attaching buss bars to Junction box 2.
Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)



- 4) Remove the nut.
Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)



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JUNCTION BOX ASSY RR-LH INSTALLATION

1. Install it in reverse to the removal procedure [W].

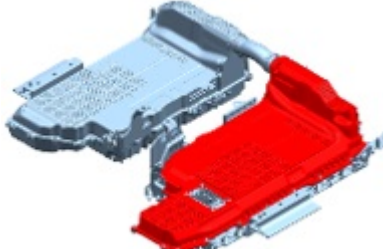
COVER ASSY-BAT LEFT SIDE REMOVAL

WARNING: If the following sign [W] is indicated in the procedure, high-voltage components (live parts with over 50V) are involved. Make sure to take the necessary actions before servicing an electric vehicle, or you may get an electric shock that can result in a serious injury or death in the worst case. Before servicing the electric vehicle, refer to the (HIGH-VOLTAGE SERVICE CAUTIONS) in MGSS and make sure to take all necessary actions to start services This repair can only be performed by properly trained technicians.

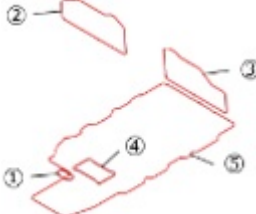
Items to be prepared

SST	49JP-046A0 LIB_AIRTIGHT_TESTER_PHEV-2
-----	---------------------------------------

[Reference]

Target parts	Location (red part)
	

[Non-reusable parts]

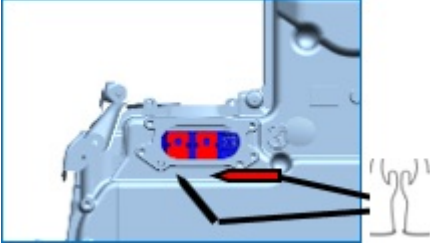
Part number	Location (red part)
(1) KBB4-302K5 (2) KBB3-302K3 (3) KBB4-302K3 (4) KBB4-302K8 (5) KBB4-302K2	

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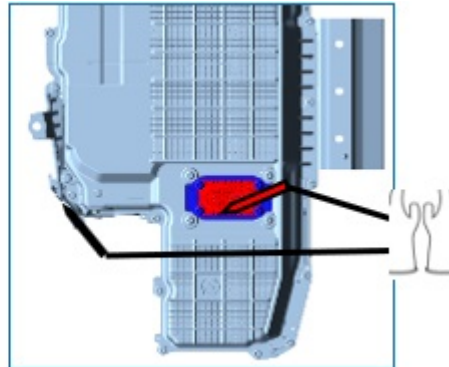
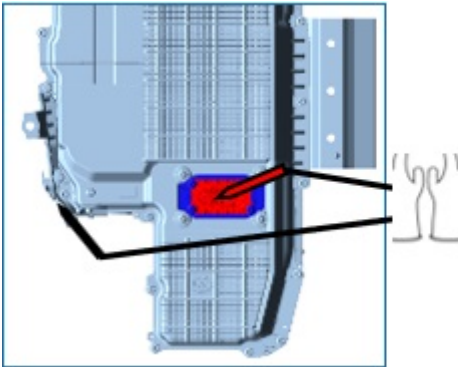
1. Measure the voltage [M].

Voltage between terminals: 0V

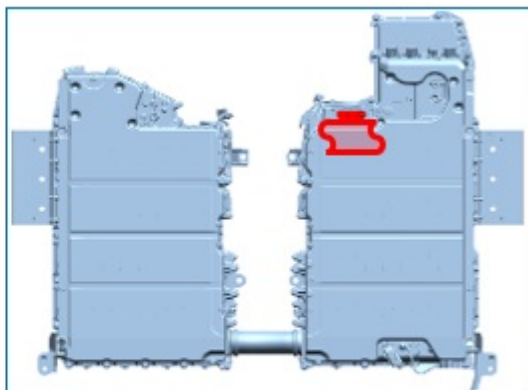
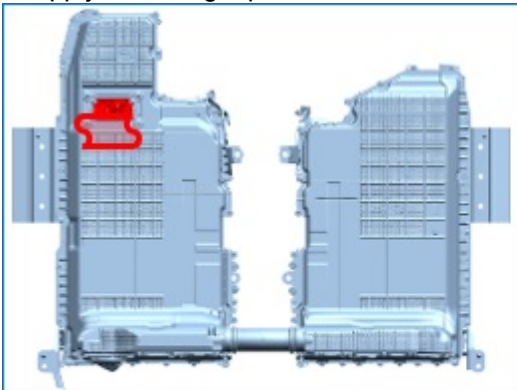


2. Measure the voltage [M].

Voltage between terminals: 0V



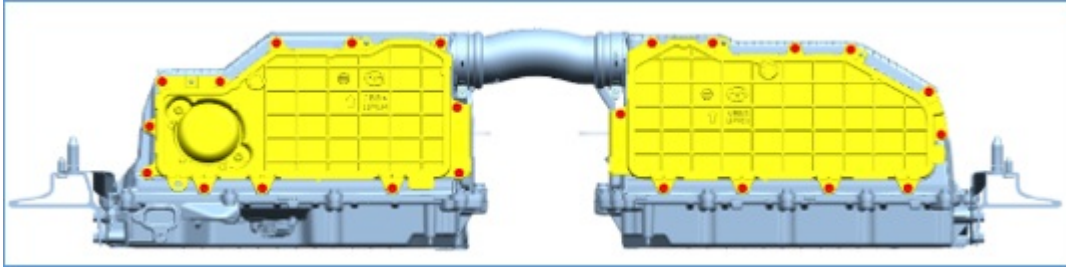
3. Apply insulating tape.



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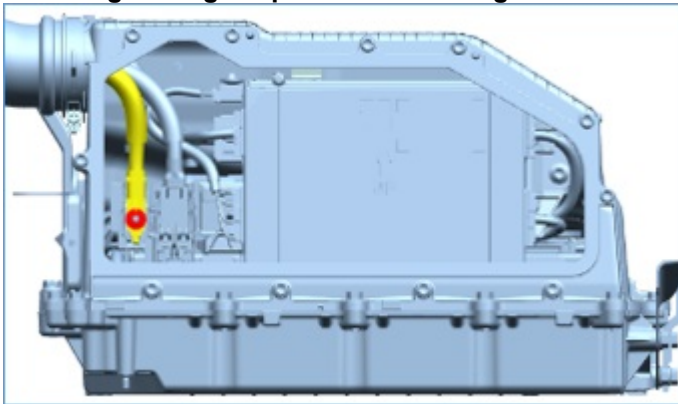
4. Remove the PLATE ASSY.

- a. Remove the bolts.

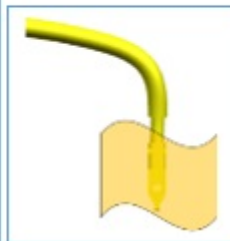
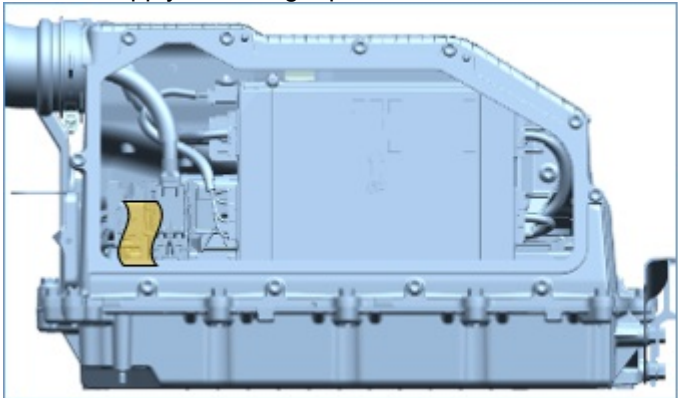
Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)

5. Disconnect the CABLE-MODULE [M].

- a. Remove the nut [M].

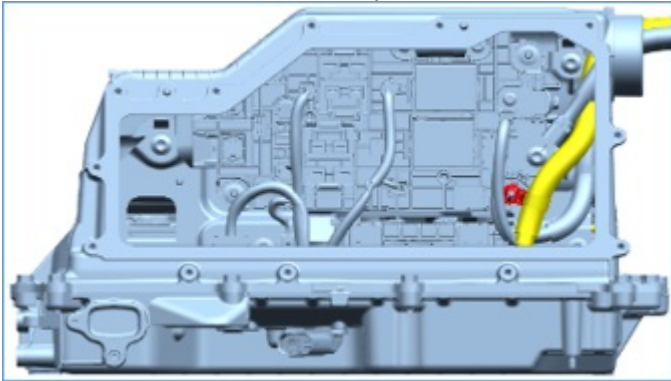
Tightening torque when installing: 8.0 ± 1.1 ft·lb (10.8 ± 1.5 N·m)

- b. Apply insulating tape [M].



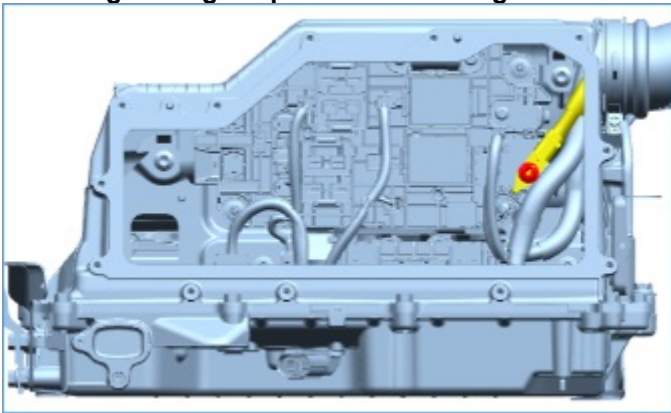
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c. Detach the harness clip [W].

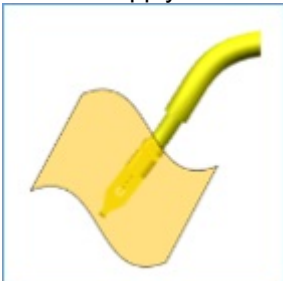


d. Remove the nut [W].

Tightening torque when installing: 8.0 ± 1.1 ft·lb (10.8 ± 1.5 N·m)



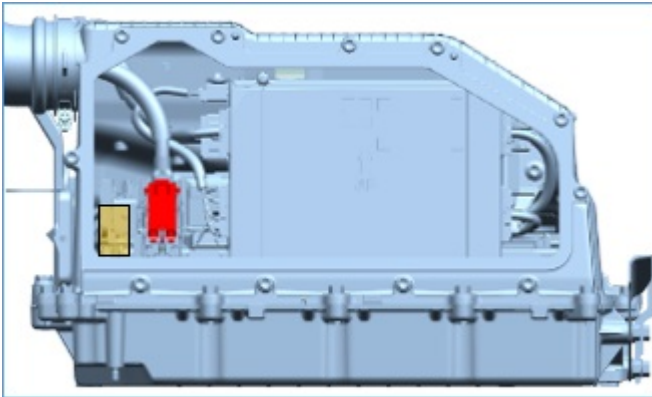
e. Apply insulating tape [W].



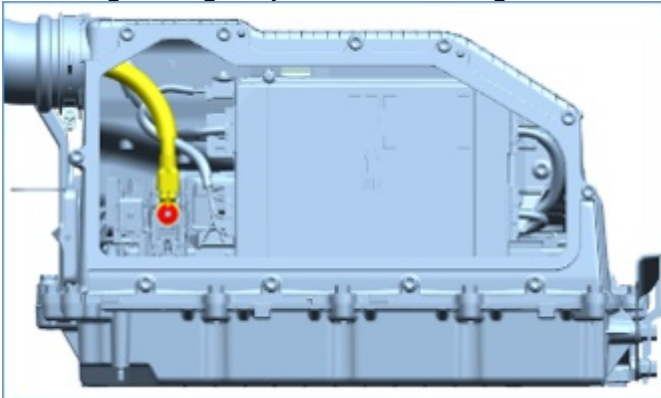
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6. Disconnect the CABLE-MODULE [N].

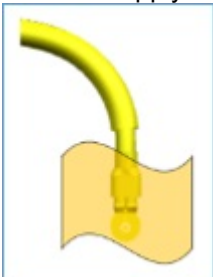
a. Lower the cover [N].



b. Remove the nut [N].

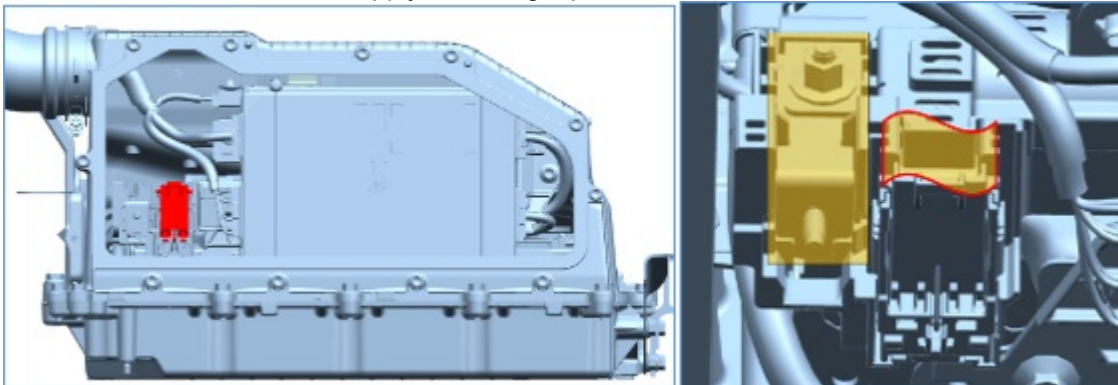
Tightening torque when installing: 8.0 ± 1.1 ft·lb (10.8 ± 1.5 N·m)

c. Apply insulating tape [N].

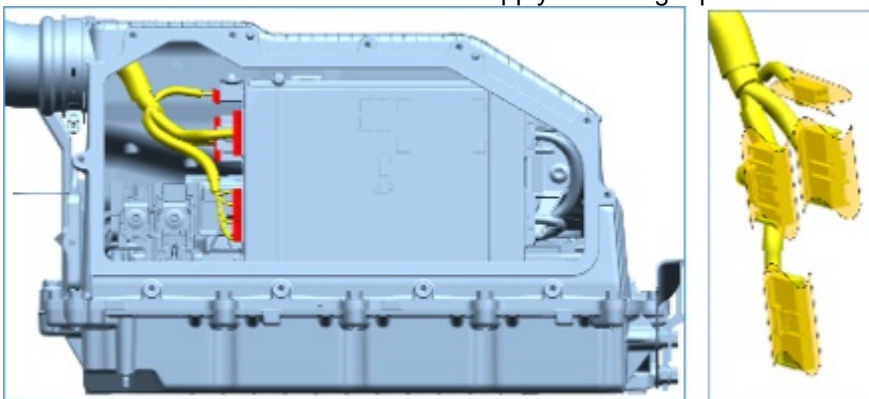


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d. Close the cover and apply insulating tape [M].



e. Disconnect the connectors and apply insulating tape [M].

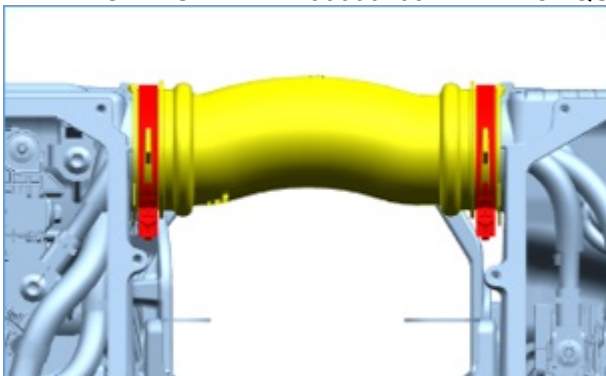


7. Remove COVER HOSE [M].

a. Loosen the hose clamps.

Tightening torque when installing: 2.2 ± 0.4 ft·lb (3.0 ± 0.5 N·m)

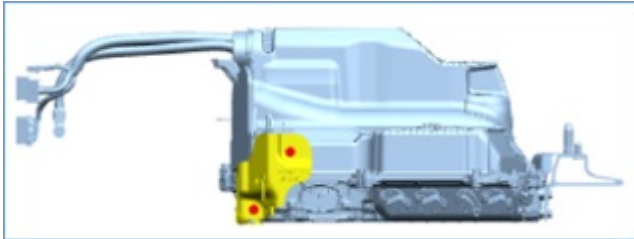
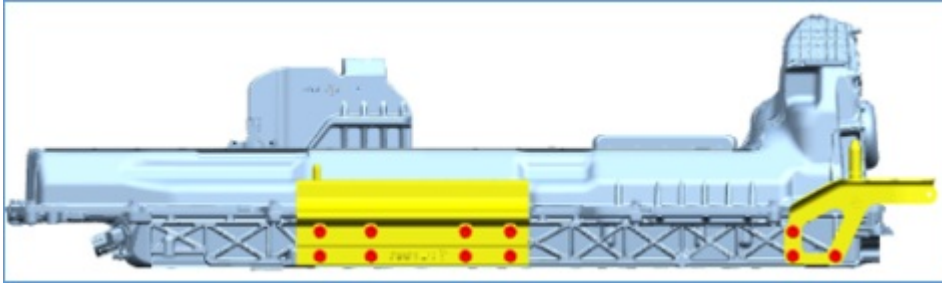
NOTE: Use MRT 490000205A MINI TORQUE WRENCH to tighten hose clamps.



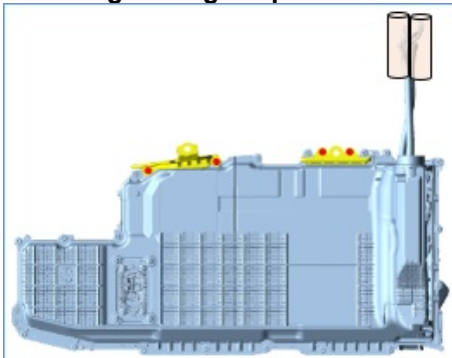
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8. Remove the BRKT-BAT.

a. Remove the bolts.

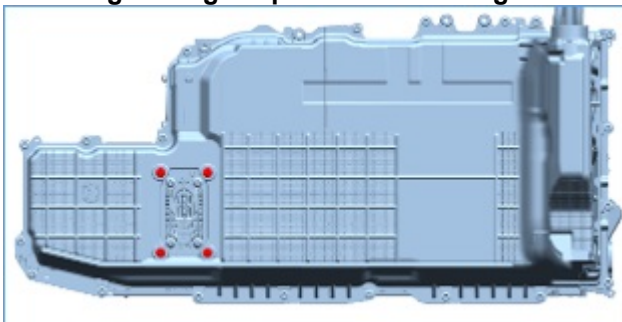
Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)

b. Remove the bolts.

Tightening torque when installing: 19.2 ± 3.2 ft·lb (26.0 ± 4.4 N·m)

9. Remove the COVER ASSY-BAT.

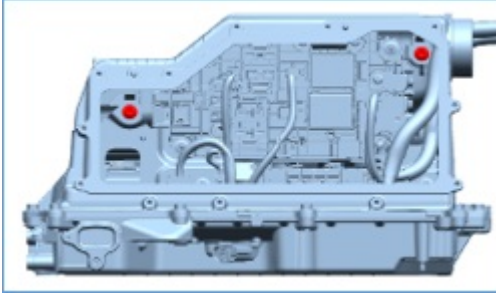
a. Remove the bolts.

Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)

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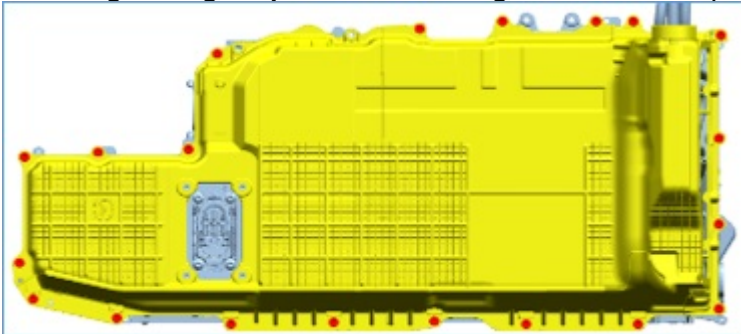
b. Remove the bolts [⚡].

Tightening torque when installing: 6.8 ± 1.1 ft·lb (9.3 ± 1.5 N·m)



c. Remove the bolts.

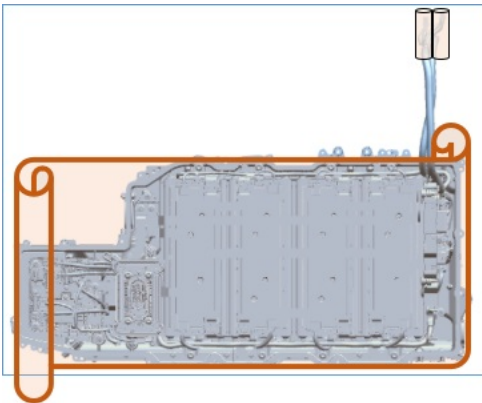
Tightening torque when installing: 19.2 ± 3.2 ft·lb (26.0 ± 4.4 N·m)



10. With an assistant, remove the upper cover.

11. Cover it with an insulating sheet.

WARNING: The insulating mat must always cover parts other than the parts to be worked on.



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COVER ASSY-BAT LEFT SIDE MOUNTING

1. Install it in reverse to the removal procedure [W].

NOTE:

- Replace the GASKET before installation of the COVER ASSY-BAT, PLATE ASSY.
- Check that there are no foreign objects in the gasket grooves.
- Insert the convex part of the gasket into the recess of COVER ASSY-BAT and insert it along the groove.
- When assembling, it must be turned upside down and not assembled.

COVER ASSY-BAT

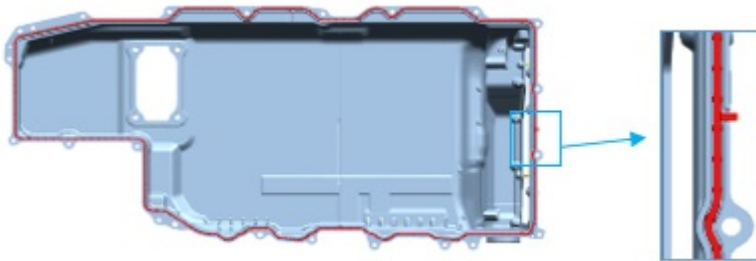


PLATE ASSY

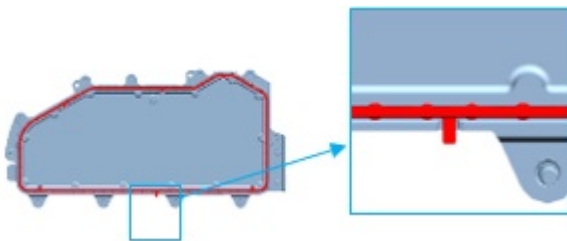
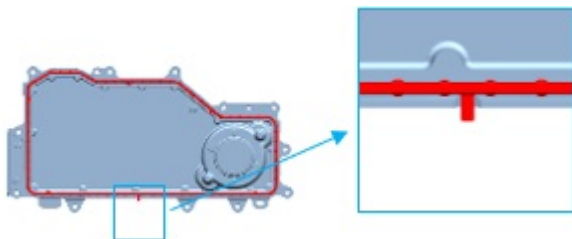
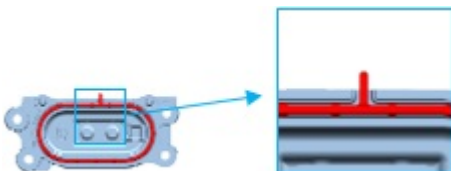


PLATE ASSY



COVER ASSY-BAT

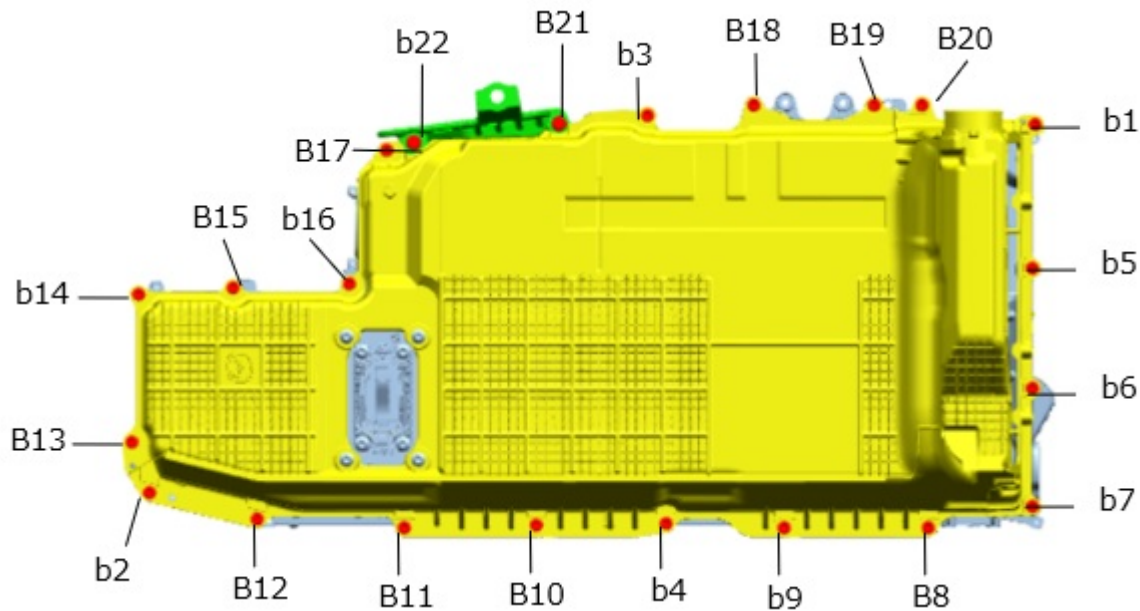


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Follow the steps below to install the bolts.

a. Install and tighten the bolts in the following order: b1 - b20, b21, b22.

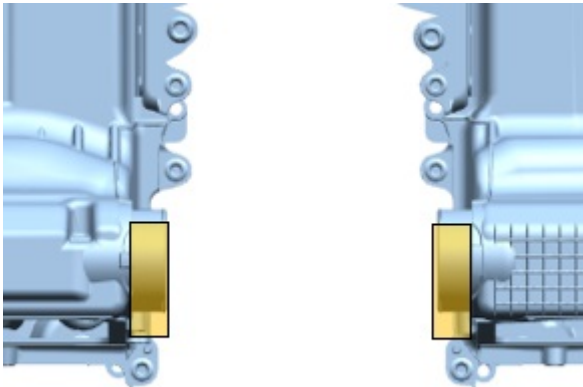
Tightening torque when installing: 19.2 ± 3.2 ft·lb (26.0 ± 4.4 N·m)



b. Retighten in order of b1 to b22.

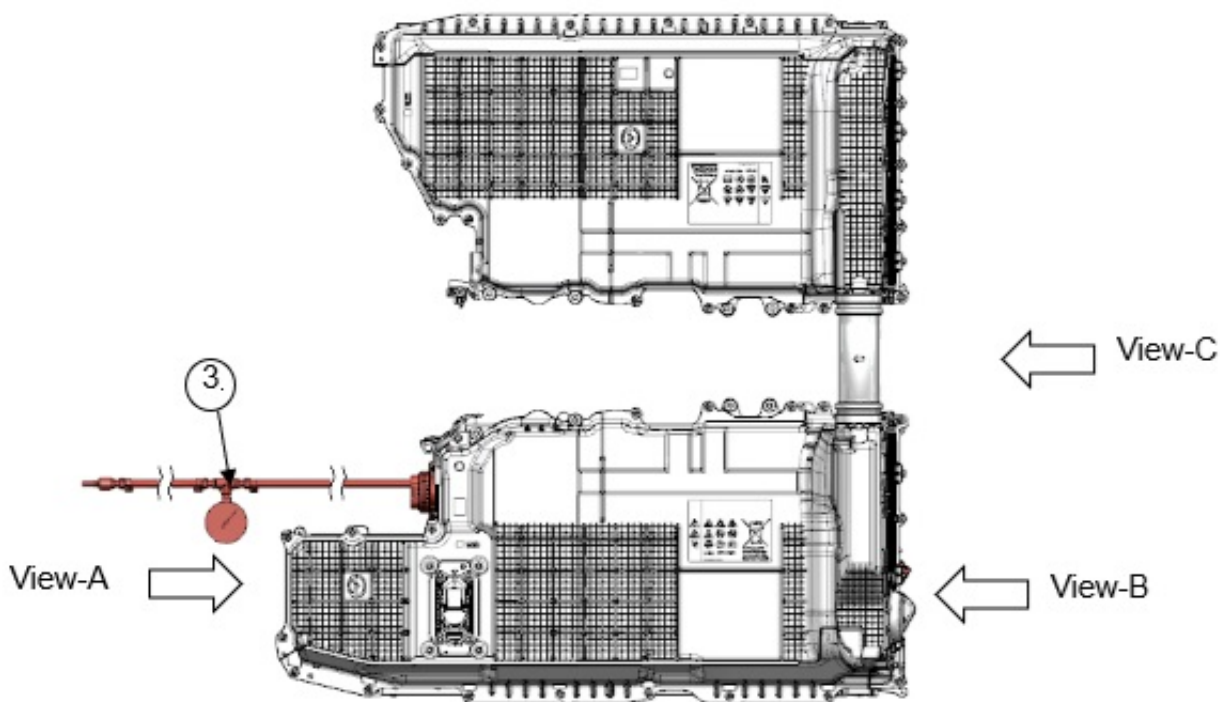
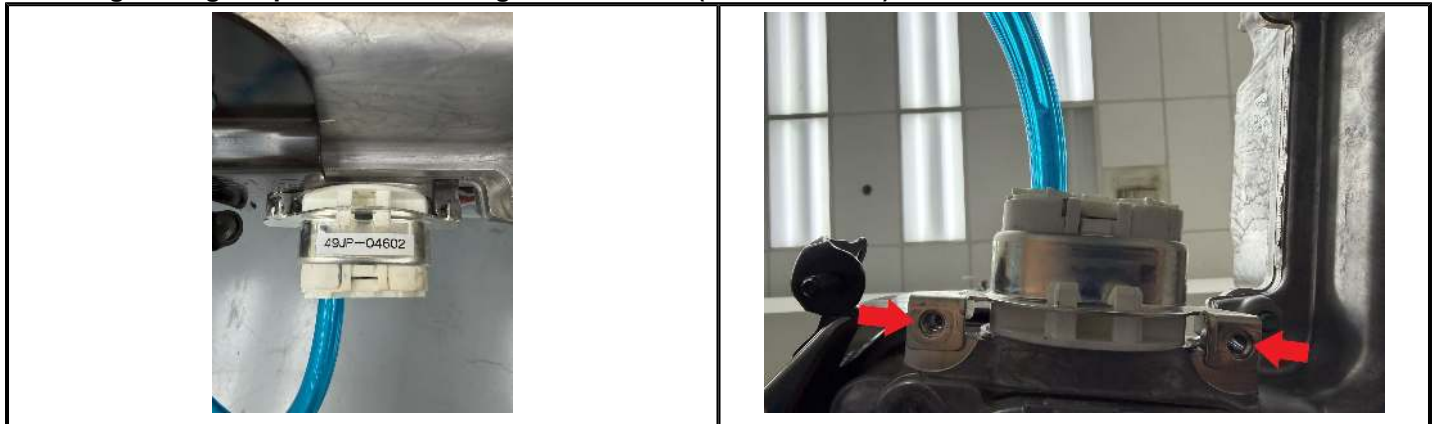
c. Install the remaining bolts (in no particular order).

NOTE: Install the COVER HOSE.

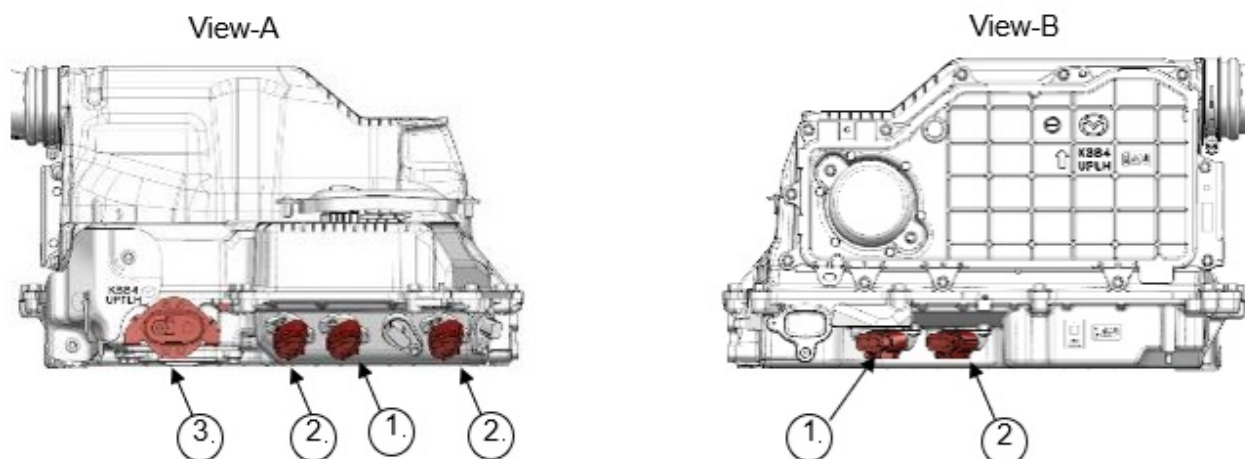


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2. Perform an airtightness check.
 - a. Install SST (49JP-046A0).
 - b. Item 3 (GAGE SET) requires using two existing bolts from the battery.
- Tightening torque when installing: 8.0 ± 1.1 ft-lb (10.8 ± 1.5 N·m)**



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49JP-046A0 LIB_AIR_TIGHT_TESTER_PHEV-2

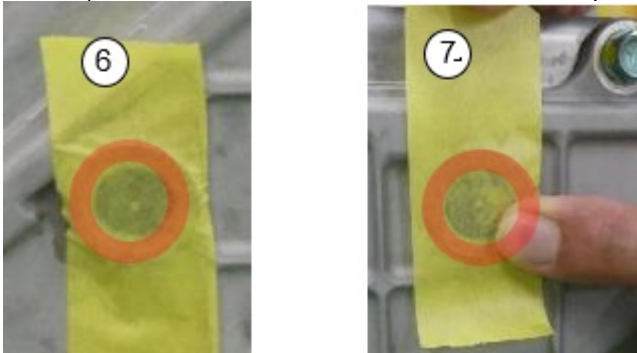
No.	IMAGE	NAME
(1)		COUPLER A
(2)		COUPLER B
(3)		GAGE SET

View-C

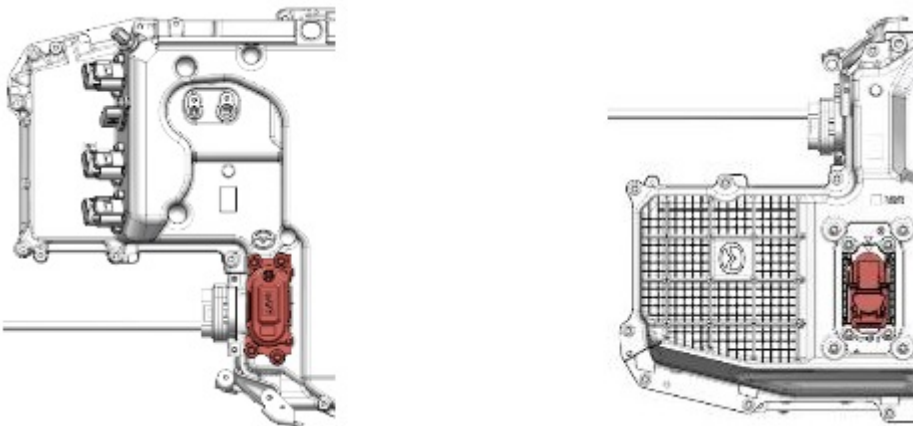


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- b. Apply tape to prevent air from escaping (6)(7). On the red circle of the part, making sure it adheres properly (Recommended: 3M 243J Plus 30mm or equivalent).

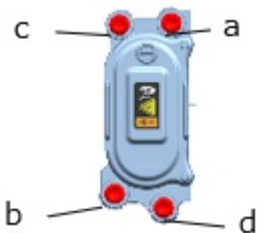


- c. Install the terminal cover and torque the bolts to specification, then install the service plug. Ensure the latch is fully closed to seal the service plug and observe all safety precautions when the service plug is installed.



3. Install the COVER ASSY-BAT.

- a. Install the bolts in the following order: a → b → c → d (or a → b → d → c).



- b. Tighten the bolts in the order of step a.

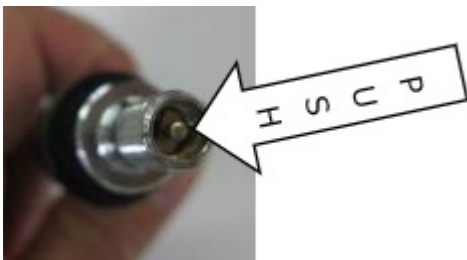
Tightening torque when installing: 8.0 ± 1.1 ft-lb (10.8 ± 1.5 N·m)

- c. Connect the air pump to the SST and inject air of 0.29 psi (2.0kPa).

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ATTENTION:

- (1) DO NOT use compressor air from service shops as SST and driving batteries may be damaged.
- (2) Using a hand pump, slowly pump air into the battery. You MUST take at least 2 minutes to reach 0.30 to 0.31 psi (2.1 to 2.2 Kpa). Rapid injection will lead to damage to the gauge.
- (3) For VENT-GAS ASSY ((8) in VIEW C above), DO NOT inject air over 0.4 psi (3.0 Kpa) because there is a risk that the valve will open.
 - If the valve is opened, replace VENT-GAS ASSY or PLATE ASSY because reuse is not possible when the valve is opened.
- (4) Disconnect the air pump from the SST.
 - If the SST and the air pump are connected, there is a risk that air will leak from the connection.
- (5) Adjust by pressing the valve so that it is 0.29 psi (2.0kPa).



- d. Perform an airtightness check. After setting the internal pressure to 0.29 psi (2.0kPa), the gauge must maintain at least 0.28 psi (1.9 kPa) for 1 minute.
 - If 0.28 psi (1.9 kPa) or more cannot be maintained, check the following:
 - 1) Check the SST installation status.
 - 2) Check the condition of gaskets set as non-reusable parts.
 - 3) Check if COVER ASSY-BAT is damaged.
- e. Remove the SST in reverse order to the installation procedure.

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PARTS INFORMATION

Parts Number	Description	Qty.	Notes
0000-CT-PHEV	Junction Box 2 Kit		Kit includes: KBB3302G0A (1 Junction Box 2), KBB4302K5 (1 Gasket), KBB3302K3 (1 Gasket), KBB4302K3 (1 Gasket), KBB4302K8 (1 Gasket), KBB4302K2 (1 Gasket).
0000-KT-PHEV	PHEV Battery Removal Replacement Parts Kit		Kit includes: 999461000 (4 Nuts), PE2340305 (2 Gaskets), GJ6E61J19 (1 O-ring No. 2), MH01302W3 (2 O-rings), and BBM461J17 (1 O-ring Cooling unit).

NOTE: MASH authorization is required for all parts replacement. Review Mazda Warranty Policies and Procedures Policy No.:3.28 for details.

WARRANTY INFORMATION**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under:
 - High Voltage Battery or TZEV Emission Warranty (2024-2025 MY)
 - High Voltage Battery Warranty (2026 CX-90)
 - High Voltage Battery or ZEV Emission Warranty (2026 CX-70)
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	93
Damage Code	96
Part Number Main Cause	KBB3-30-2G0A
Quantity	1
Operation Number / Labor Hours:	XXX82XRX / 6.6 Hrs (Replace Junction Box 2)

NOTE: Claim the parts other than "Causal Parts No." as related parts.

NOTE: Submit claims for maintenance and adjustments according to the "Suggested Repair Time (SRT)" in MGSS if required.

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