

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

**VEHICLE DOES NOT START (ENTER READY MODE) WITH DTC
P0AB9/U0100/U0110/U0115 AND MULTIPLE WARNING LIGHTS**

Bulletin No.: 09-027/26

Last Issued : 09/28/2026

BULLETIN NOTES**APPLICABLE MODEL(S)/VINS**

2024-2026 CX-90 PHEV

2025-2026 CX-70 PHEV

DESCRIPTION

Some CX-70 and CX-90 PHEV vehicles may fail to start (enter READY mode) in cold weather, but the vehicle can often be started successfully on the next attempt. This may occur when leakage current between connector terminals causes the MAIN Relay to be falsely detected as ON. As a result, the Battery ECU may incorrectly determine the relay status, preventing READY mode activation and resulting in a no-start condition. One or more of the following DTCs may be stored: P0AB9, U0100, U0110, and U0115 and multiple warning lights may also turn on.

This is caused by corrosion of the connector terminals on the 3002-411 connector in the luggage compartment from water. To eliminate this concern, urethane has been added around the connector to help prevent water from reaching the connector terminals.

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

REPAIR PROCEDURE

1. Verify the customer concern.
2. Diagnose and repair the vehicle according to the following steps.

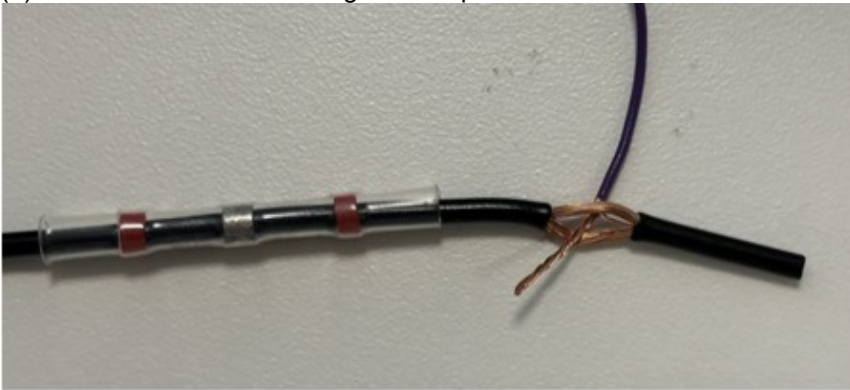
NOTE: The following procedure uses a heat shrink tube with solder.

- (1) Connect wire to wire with heat shrink tube.
- (2) Form a loop at the end of wire to create a passage for the other wire.

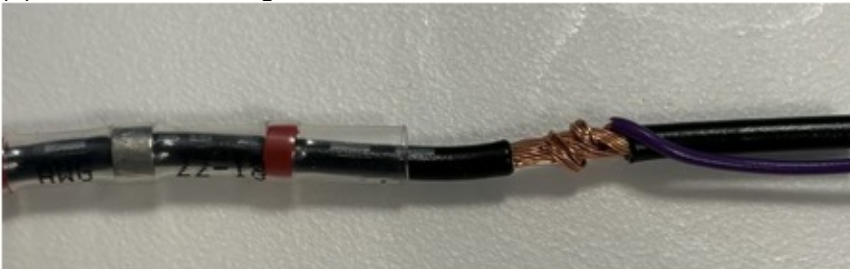


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(3) Insert the other wire through the loop.



(4) Twist both wires together as shown.



(5) Slide the heat shrink tube over the joint.



(6) Apply heat with a heat gun.

CAUTION: Allow it to cool for a few minutes before touching it.

OUTLINE

(1) Inspect the 3002-411 connector for water intrusion or corrosion.

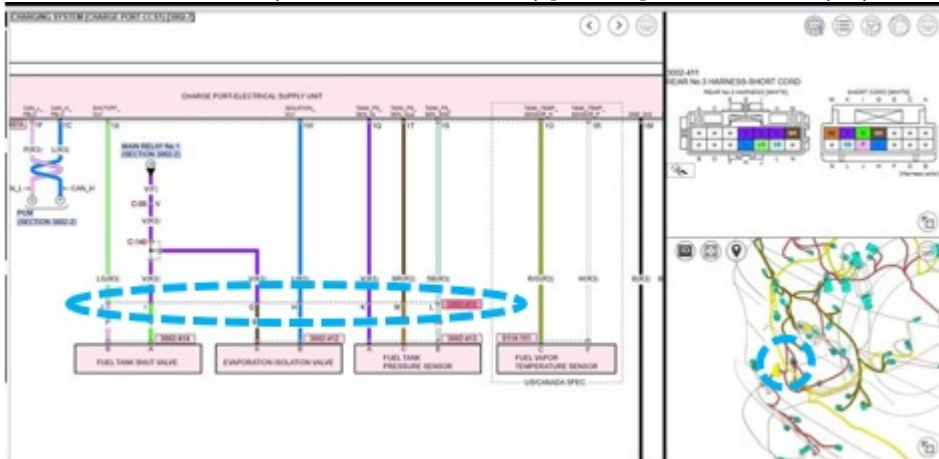
- If corrosion is found, replace the connector and connect the harness using the specified repair method.
- If corrosion is NOT found, refer to MGSS for further diagnosis.

(2) Apply urethane to prevent water from reaching the connector terminals.

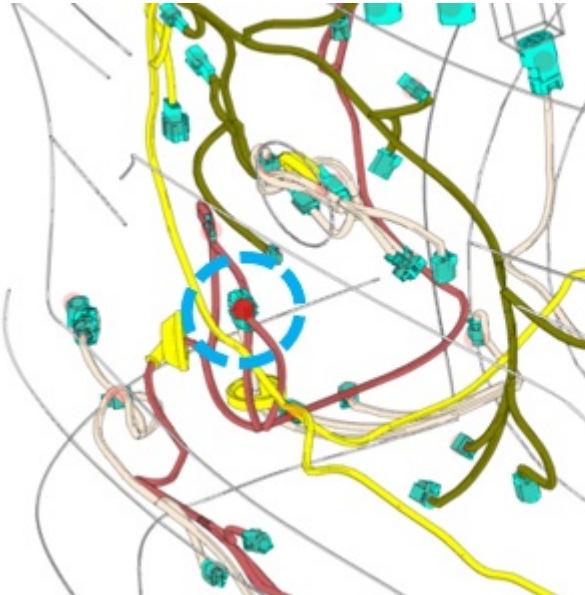
(3) Confirm the vehicle enters READY mode and the DTCs do not return.

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CHARGING SYSTEM (CHARGE PORT CCS1) [3002-7] 25MY CX-70 (KJ) reference photo



3002-411 connector



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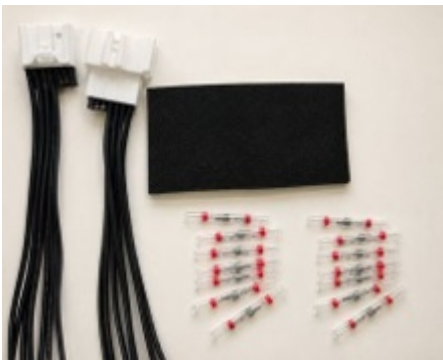
SERVICE PARTS COMPONENTS

- (1) Connector 1 (K2Z767SH3): Qty 1
- (2) Connector 2 (D3Y667SH3): Qty 1
- (3) Urethane sheet: Qty 1

- Example product (for reference only): 8 Pcs Adhesive Foam Padding Sheets on Amazon:
https://www.amazon.ca/dp/B0D9S9JVCR?ref=ppx_yo2ov_dt_b_fed_asin_title&th=1
- Example product (for reference only): ALLWIN Self-Stick Neoprene Foam Padding Sheet on Amazon:
<https://www.amazon.com/dp/B0BQD5QFP2>

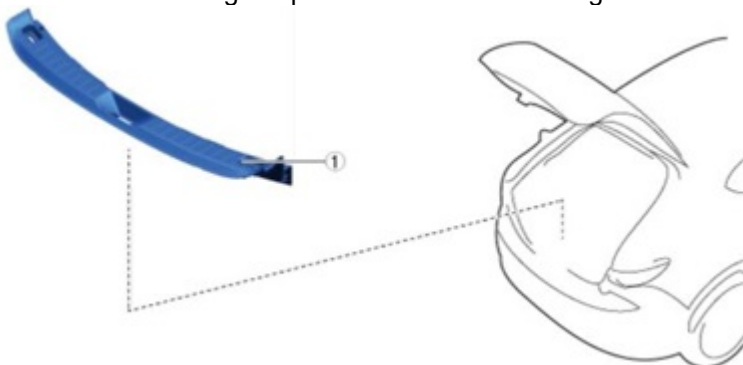
(4) Wire connection materials (as required): Use any appropriate method (heat shrink tube with solder, crimp connector, or soldered connection with heat shrink tube).

- Example crimp connector (for reference only): Haisstronica Heat Shrink Butt Connectors. Amazon:
<https://www.amazon.com/dp/B0G1XV3PZ4>



DETAILED REPAIR PROCEDURE

- a. Disconnect the 12V vehicle battery.
- b. Remove using the procedure shown in the figure.

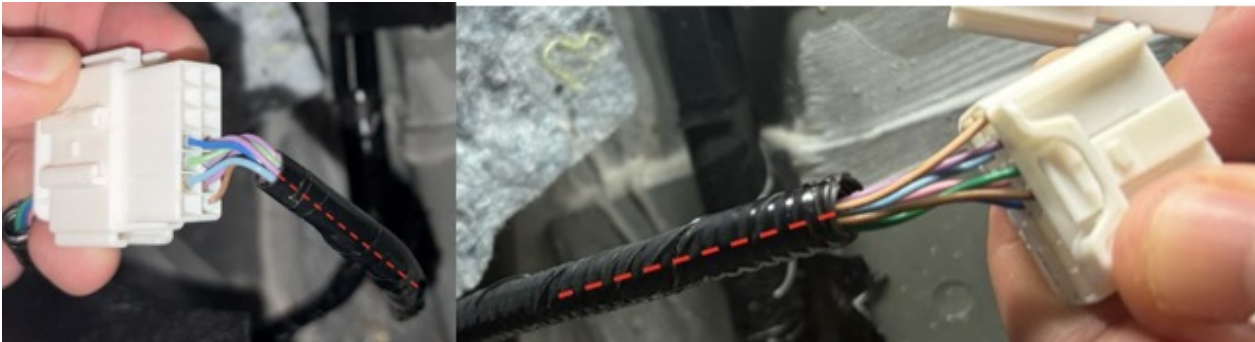


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The connector locations are shown below.



c. Cut the harness cover for both connectors on the vehicle.

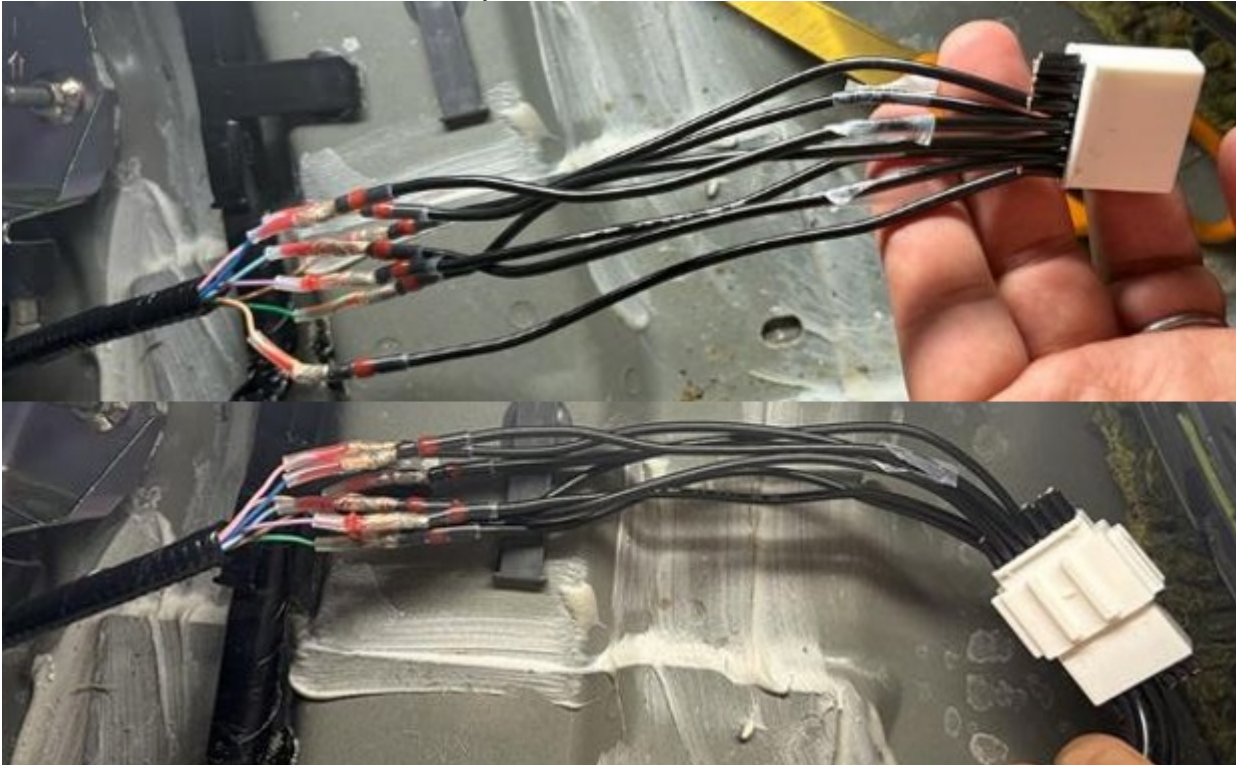


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d. Cut each wire individually and connect it to the service connector following step a.

NOTE: Make sure not to mix up the pin configuration.

e. Check that each wire is correctly connected.



f. Apply stress to both modified harnesses to verify that everything stays together.

g. Apply the urethane sheet (3 in service parts) to the connector (1 in service parts) as shown.



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h. Apply electrical tape to each modified harness.



i. Put the connector back in its original location.



j. Reinstall any removed parts. and connect the 12V vehicle battery.

3. Verify the repair.

PARTS INFORMATION

Parts Number	Description	Qty.	Notes
K2Z7-67SH3	Short Harness	1	Connector 1
D3Y6-67SH3	Short Harness	1	Connector 2

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WARRANTY INFORMATION**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under one of the following:
 - Mazda's New Vehicle Limited Warranty term (non CA emissions state)
 - TZEV Emission Warranty 180 Months /150,000 Miles (2024-2025 CX-90 PHEV and 2025-2026 CX-70 PHEV)
 - California Emission Warranty (Long term) 84 Months /70,000 Miles (2026 CX-90 PHEV)
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	61
Damage Code	9E
Part Number Main Cause	D3Y6-67SH3
Quantity	1
Operation Number / Labor Hours:	XXX8JXRX / 1.2 Hrs. (Trim removal 0.2 H + connector fabrication 1.0 H)

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

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