

UPDATED April 10, 2026 – STANDALONE PROCEDURE IS BELOW. The repair is a software update OR a check to make sure the software is at the current level with an ODR upload.

DO NOT STOP AT THE “SOFTWARE UPDATE SUMMARY” screen in MDARS. You must continue to finish all steps in the entire procedure. You must have a “Software Update” entry present in MDARS for the PT_GWU showing current level OR updated. If you don’t have an entry for “Software Update”, bring the vehicle back in immediately for re-repair.

Module to be reprogrammed or checked to make sure it is at the current level:

- 1. PT_GWU**

2025MY - CX-50 Hybrid System Failure DTC P2530

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Vehicle Inspection Procedure and Preparation for Repair

1. Verify that the vehicle is within the following ranges and there is an OPEN SSPEO campaign in eMDCS:

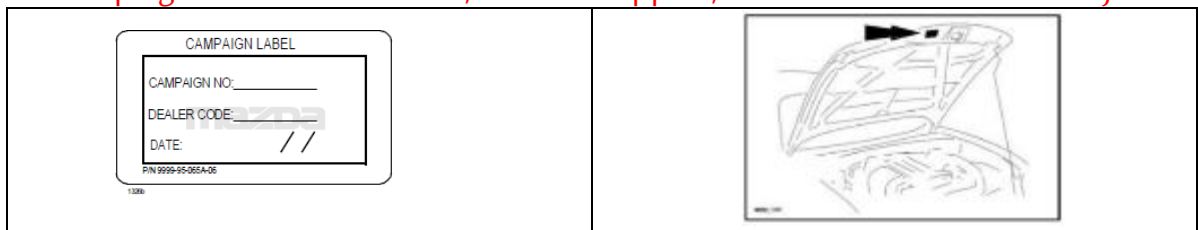
SUBJECT VEHICLES

Model	Subject VIN range	Subject production date range
2025MY CX-50 Hybrid	7MMVA**** SN 100047 – 125005	From September 4, 2024 through May 29, 2025

The asterisk symbol “*” can be any letter or number.

2. If the vehicle is in the range above and SSPEO is in OPEN status in eMDCS, proceed to Step 3. If the vehicle does not have an OPEN SSPEO status, return the vehicle to the customer or inventory.
3. Perform an eMDCS Warranty Vehicle Inquiry and inspect the vehicle for a Campaign Label with SSPEO attached to the vehicle’s hood, driver door or firewall.

NOTE: Always be sure to verify the campaign number as the vehicle may have multiple campaign labels on the hood, radiator support, and firewall or driver door jamb.



eMDCS - Warranty Vehicle Inquiry Results

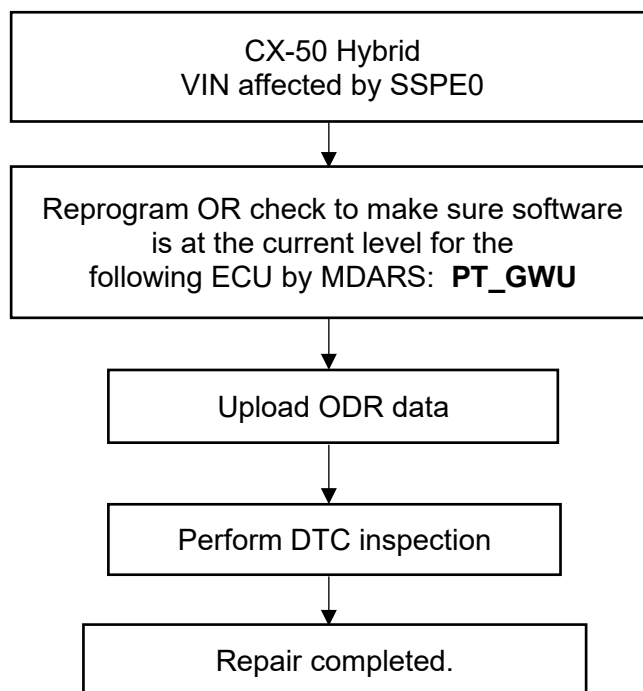
If eMDCS displays:	Campaign Label is:	Action to perform:
If no repair date is displayed on the line with CAMPAIGN SSPE0, the campaign has not been completed on this vehicle	Present	Fill out Dealer Recall Help on OneMazda contact or the Mazda Warranty Department at warrantydept@mazdausa.com to review vehicle history.
	Not present	Proceed to "REPAIR PROCEDURE".
If repair date is displayed for CAMPAIGN SSPE0, is "CLOSED"	Present	Return vehicle to inventory or customer.
	Not present	Complete a label and apply to vehicle's hood with repair date and dealer code from eMDCS Warranty Inquiry.
CAMPAIGN SSPE0 is not displayed	See Action	The vehicle is not affected by the SSP

TECHNICIAN LEVEL REQUIRED: CERTIFIED OR ABOVE (DOES NOT HAVE TO BE HYBRID CERTIFIED). Note: Technician repairing needs to be Certified or above and does not need to be Senior or Master as long as they have had the required training for ODR – Collection of Diagnostic Information.



CAUTIONS: DTC P2530:12 IS NOT REQUIRED TO BE PRESENT TO COMPLETE THIS REPAIR. Always check for an aftermarket device connected to the DLC port and remove before proceeding with connection.

Section A: Flow Chart: NOTE: This Flow Chart needs to be followed strictly and the CAUTIONS must be read before proceeding



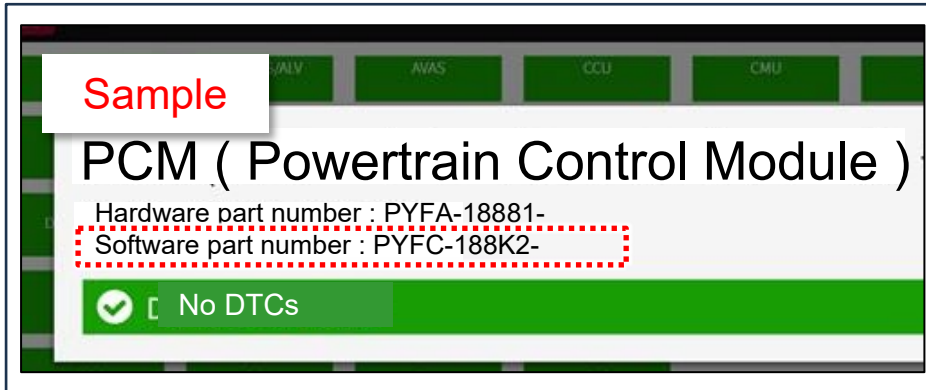
-----END OF SECTION A-----

Section B: Repair Procedure

Reprogram ECUs by MDARS and follow all steps as required.

https://s3.us-east-1.amazonaws.com/tsd.mazdausa.com/MDARS/MDARS_ECU_REPROGRAMMING_PROCEDURE.pdf

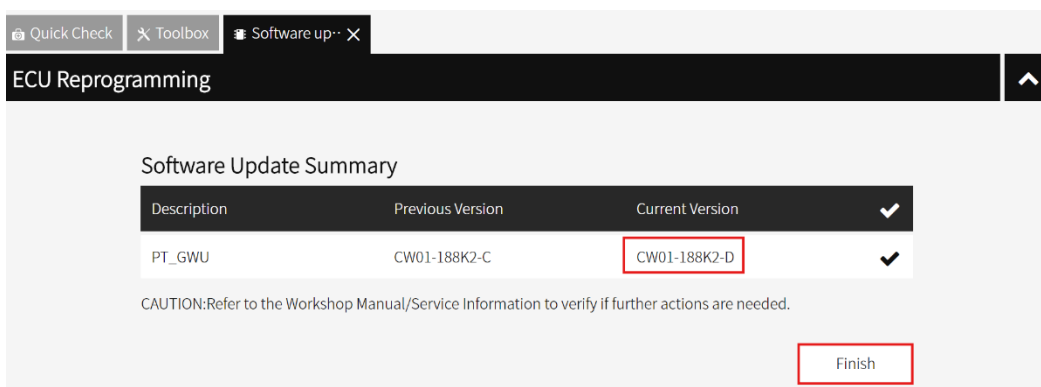
1. Check the file version of each ECU listed in the countermeasure repair procedure. Compare the software version of each ECU with the software version in the repair procedure.
 - a. If the vehicle software version is newer, do not perform reprogramming.
 - b. If the vehicle software version is older, perform reprogramming.



2. Select target ECU to be reprogrammed.
 - Required module
- PT_GWU

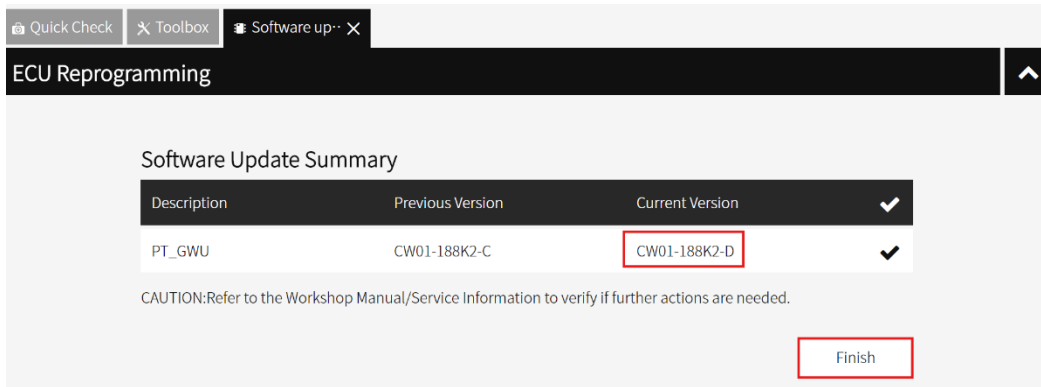
NOTE: If the target ECU is not found, return to the Quick Check screen and click the refresh button. If the target ECU is not displayed in the Quick Check screen, start a new MDARS session, and try again.

3. Confirm the current and new software versions, click "Next". If the software is at the current level, do not stop repairing and continue with all remaining steps including Uploading ODR data and Campaign Label Installation.
4. Wait for the download and click "Next".



5. After completion of software update, the previous and current software version are shown.
 - Check current version at "Calibration File information below".
 - Then, click on "Finish" to exit the ECU reprogramming.

Example



Calibration file information

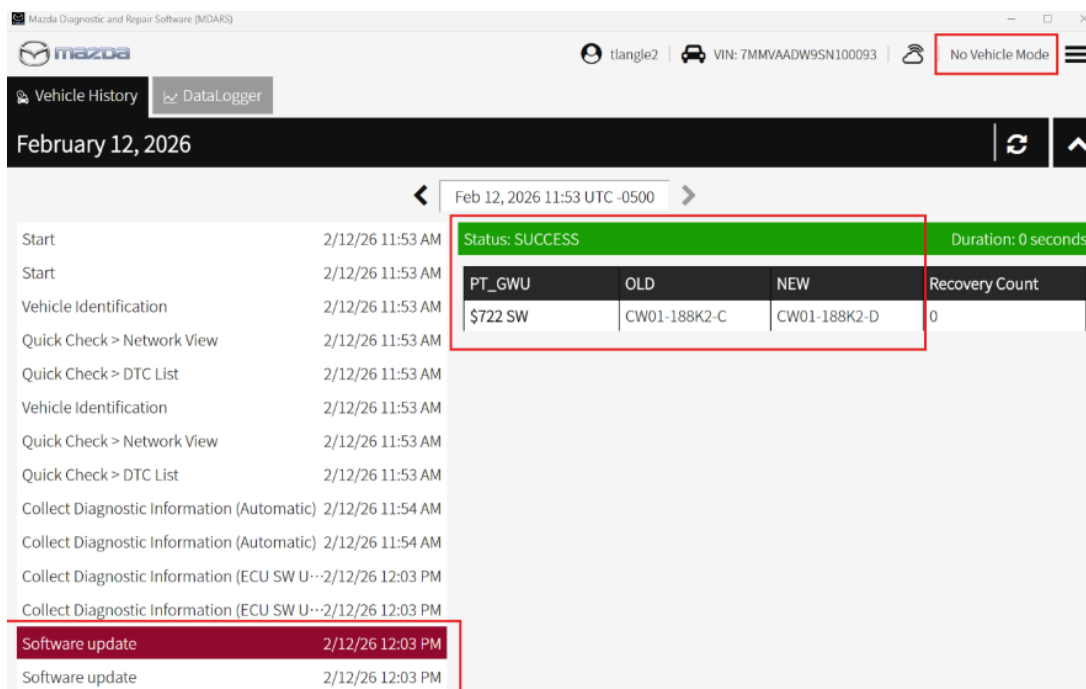
Model	Module	Target ECU (hardware #)	Target ECU NEW Software file # (or latest version)	Reprogramming Time (min.)
CX-50 HYBRID	PT_GWU	CW01-67GMX-	CW01-188K2-D	3

6. Check to make sure PT_GWU module was updated OR at the current level.



There must be a "Software Update" entry in MDARS for the PT_GWU. If you do not have an entry for PT_GWU, go back to step 1 of the repair.

PT_GWU module is updated (or check to make sure software is at current level) – this is only an example



7. Disconnect battery charger before going to next step.

DTC inspection – Go to Mandatory Post-Reprogramming Section in link
https://s3.us-east-1.amazonaws.com/tsd.mazdausa.com/MDARS/MDARS_ECU_REPROGRAMMING_PROCEDURE.pdf

MANDATORY POST-REPROGRAMMING STEPS

1. Toolbox → Collect Diagnostic Information → Vehicle History → "Run"



- 1) Check and erase DTC by using MDARS.
- 2) Confirm all DTCs were erased.

NOTE: If any DTCs should remain after performing DTC erase, diagnose the DTCs according to the appropriate troubleshooting section of the Workshop Manual.

- 3) Disconnect the MDARS from the DLC-2.

-----END OF SECTION B, PROCEED TO SECTION C-----

C. Campaign Label Installation

1. Fill out a Black "Campaign Label" (9999-95-055A-06) with Campaign #: "SSPEO", your dealer code, and the repair date. **It is OK to bundle multiple campaigns on one label as long as each campaign is legible as Mazda vehicles may have more than 1 campaign.** Use more than one label if necessary.

CAMPAIGN LABEL

CAMPAIGN NO: _____

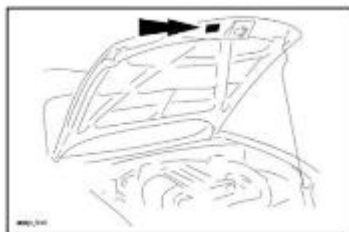
DEALER CODE: _____

DATE: ____/____/____

PIN 9999-95-055A-06

1328

2. Affix it to the hood as shown. If you cannot place the label here, the radiator support, firewall or driver door jamb are acceptable locations:



END OF REPAIR PROCEDURE