

***** All Dealers: Please watch for updates to this procedure. *****

Table of Contents - Links in this document are provided for all steps below

Flowchart**Section A**

Repair Procedure **Section B**

Vehicle Inspection Procedure and Preparation for Repair

1. Verify that the vehicle is within the following ranges and there is an Announced or OPEN 7825I campaign in eMDCS:

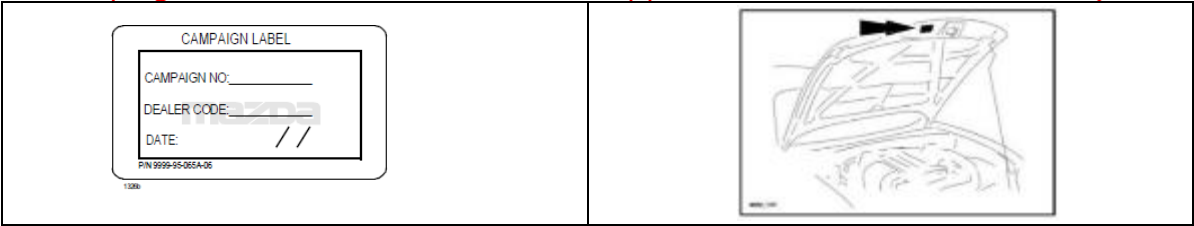
SUBJECT VEHICLES:

Model	Plant	Subject VIN range	Production date range
2025 CX-70 (MHEV only)	Japan (MC)	JM3KJ**** S1 100014 – S1 131182	From December 5, 2023 - April 25, 2025
2024-2025 CX-90 (MHEV only)	Japan (MC)	JM3KK**** R1 100044 – 189861 JM3KK**** S1 189863 – 246087	From December 27, 2022 - April 25, 2025

**Only VIN's in this range and with an "Announced" or "Open" status in eMDCS are included.

2. If the vehicle does not have an OPEN or Announced 7825I campaign, return the vehicle to the customer or inventory.
3. Perform an eMDCS Warranty Vehicle Inquiry and inspect the vehicle for a Campaign Label with 7825I 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 7825I, 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 7825I, 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 7825I is not displayed	See Action	The vehicle is not affected by the Recall

TECHNICIAN LEVEL REQUIRED: CERTIFIED OR ABOVE (DOES NOT HAVE TO BE HYBRID CERTIFIED).

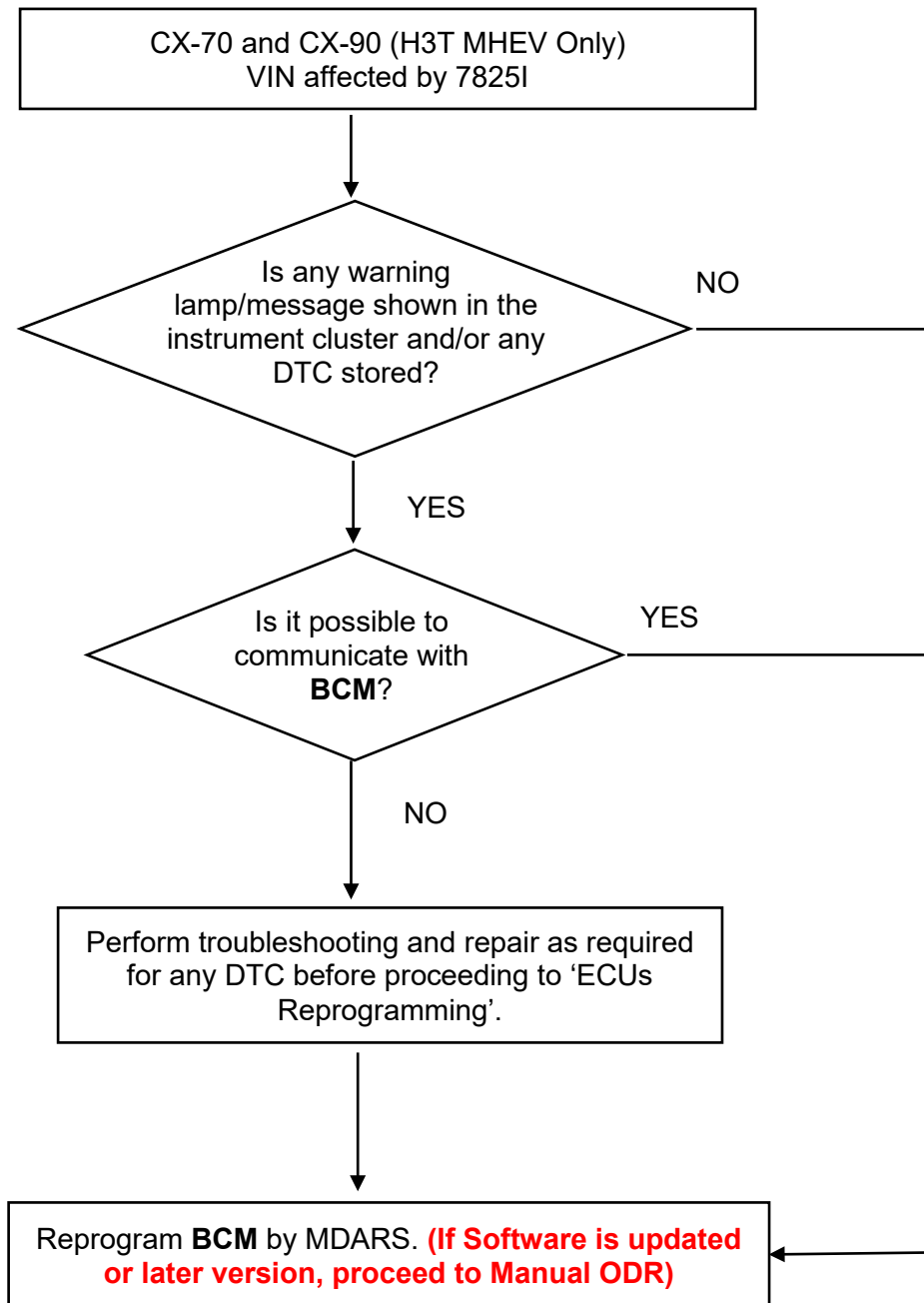
Note: Technician repairing needs to be Certified or above and does not need to be Senior or Master as long as they have had the required training for ODR – Collection of Diagnostic Information

Section A: Flow Chart

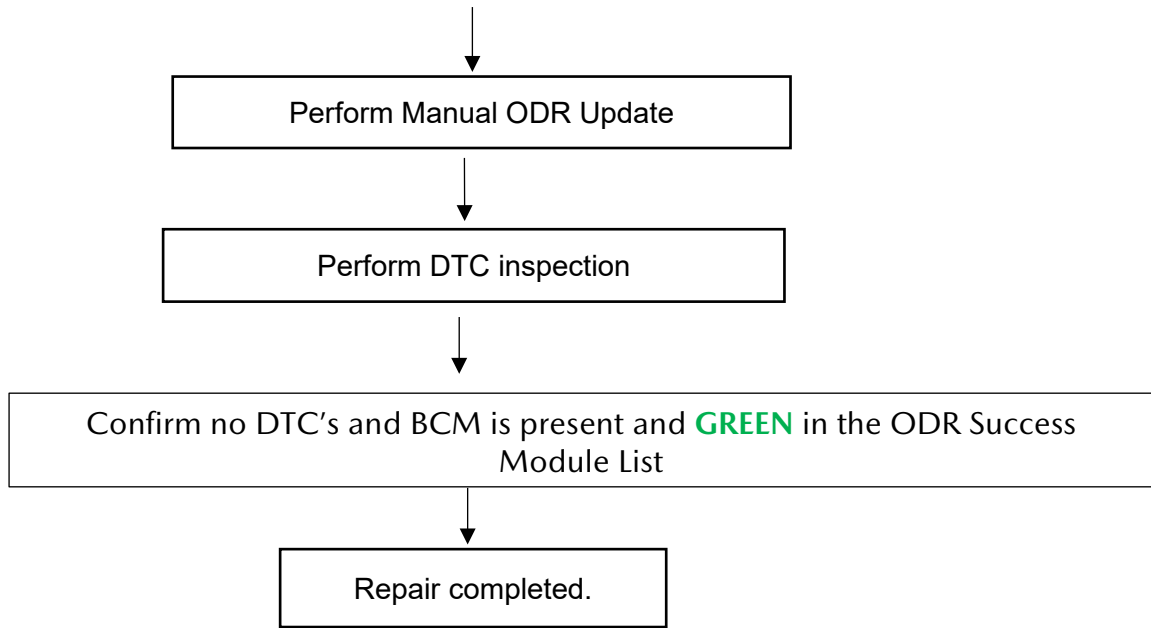


NOTE: DTC's unrelated to the campaign may need to be cleared before performing this recall. Once cleared/repaired, then start the repair process for 7825I.

NOTE: This Flow Chart needs to be followed strictly



CONTINUED - GO TO NEXT PAGE



****NOTE: All vehicles require the upload of ODR (Manual) after the technician has completed all software updates. If ODR is not uploaded successfully, or if one or more software updates are missed, the applicable campaign(s) will remain open, the warranty claim will not accept, and your dealer will have to contact the customer to bring back the car to correct the concern. You must do a ODR Update (Manual) even if the module software is up to date.**

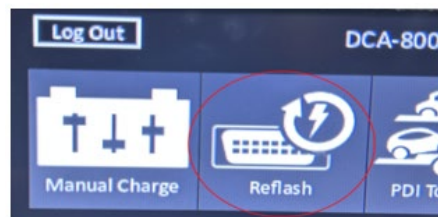
-----END OF SECTION A-----

Section B : Repair Procedure Recall 7825I

NOTE: Do not perform this recall unless 7825I is displayed under the campaign section in Warranty Vehicle Inquiry.

Service caution during reprogramming for ECU(s)

During reprogramming, connect battery charger to the vehicle to stabilize voltage fluctuation. If missing, it may cause damage to ECUs due to decreasing voltage. 7th generation vehicle will control to turn on headlight forcibly during reprogramming due to change CAN communication. **Please use the “Reflash” setting in the charger, which will keep the voltage stable. The setting voltage must be between 12 -13V.**

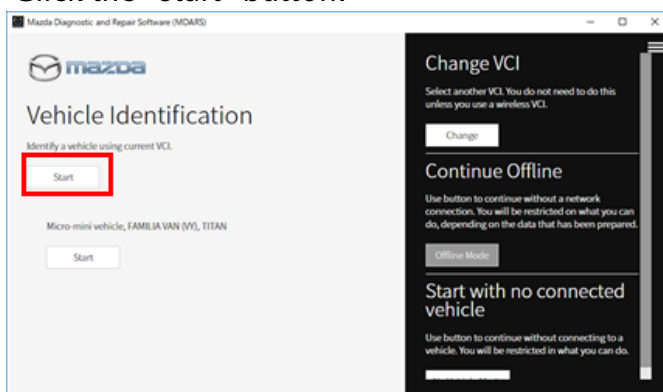


Vehicle Identification

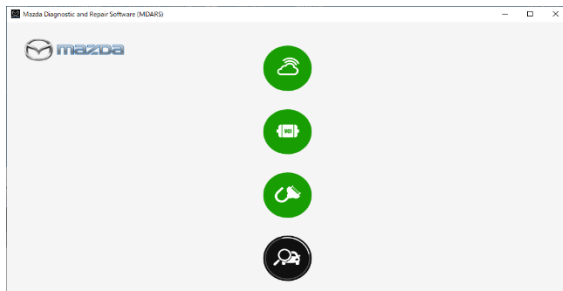
Connect MDARS with the DLC cable and VCM- II to the vehicle, then set the ignition to the ON position.

CAUTION: Connect the DLC cable and the VCM- II to the vehicle with the ignition OFF. The CAN bus line might detect some noise and it might cause a diagnostic error when connecting the DLC cable with the ignition ON.

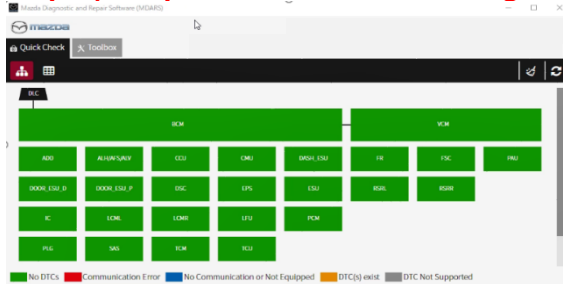
1. Click the “Start” button.



2. The Vehicle Identification process will start and automatically inspect every connection and then collect the vehicle information.



3. Verify the DTC according to the directions on the quick check screen. **If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection.**



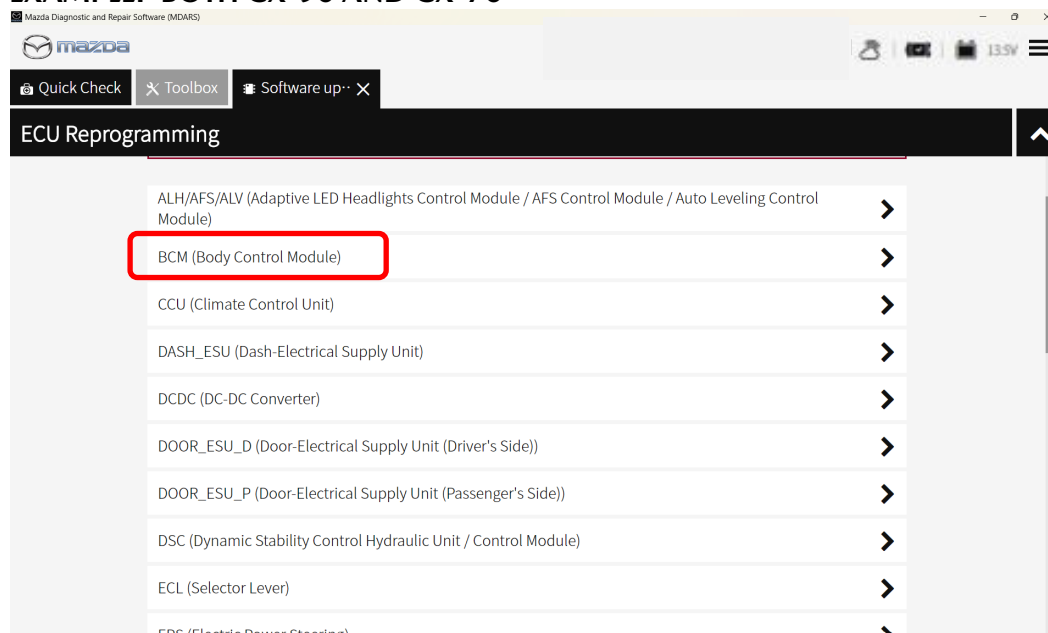
- a) Perform troubleshooting according to the corresponding DTC inspection. And repair as required before proceeding to next step.

4. Reprogram ECU as below.

- At 'Software update' on 'Toolbox' tab, select 'Run'.

5. Select BCM 'ECU Reprogramming' screen. Start Reprogramming. **NOTE: The C-BCM is being updated inside the BCM with this recall.**

EXAMPLE: BOTH CX-90 AND CX-70

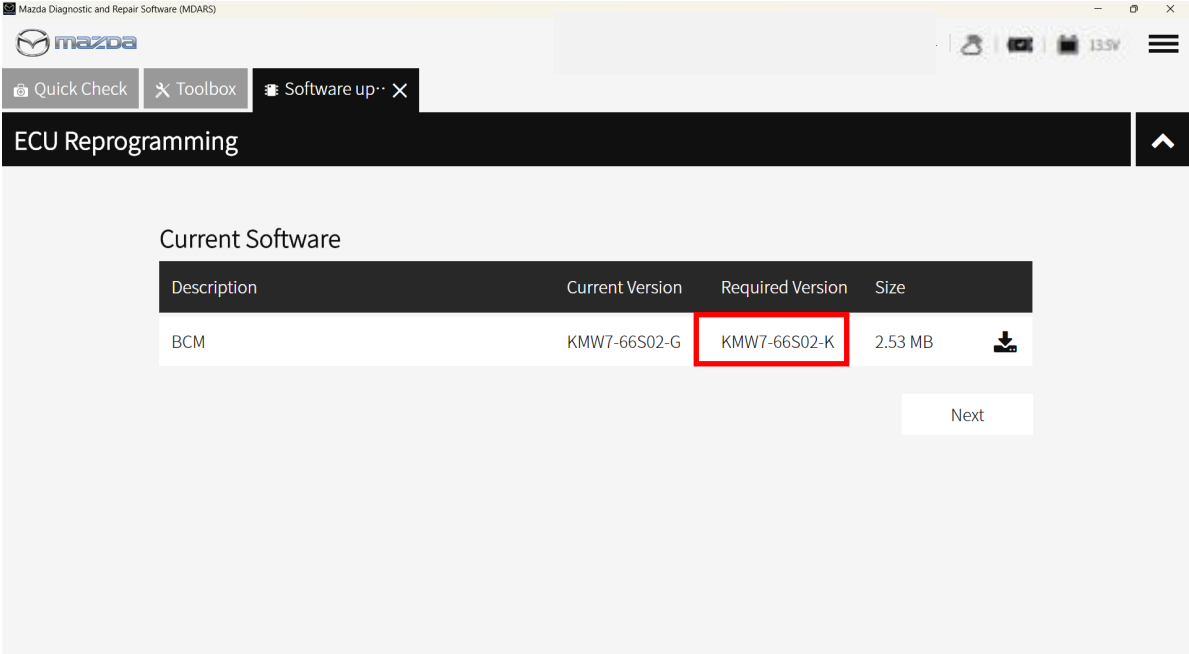


FILE (BCM SOFTWARE VERSION) ALREADY UP TO DATE: If current calibration file name in the ECU FILENAME screen is the same as shown in Calibration Files Information or with later suffix, reprogramming is not necessary but do not stop the repair procedure and continue to ODR Programming, which is still required.

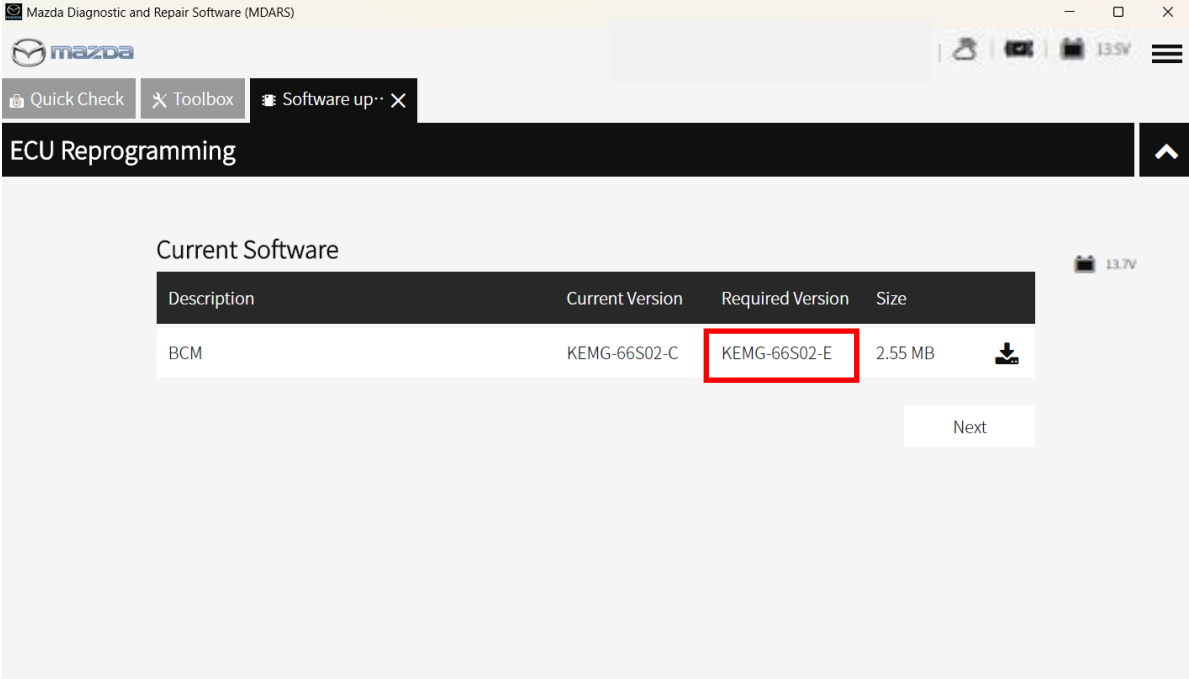
CAUTION: Please be careful about the behavior of MDARS when reprogramming an ECU. Depending on the reprogramming ECU, IG-ON and IG-OFF may be repeated several times due to MDARS. This operation is normal operation.

A. Follow instructions in the screen and click “Next”.

CX-90 EXAMPLE:



CX-70 EXAMPLE:



**SAFETY AND EMISSIONS RECALL 78251
REPAIR PROCEDURE**

B. **For CX-70 only** - check both boxes below and make sure to repair any other concerns present before proceeding with the recall repair.

Mazda Diagnostic and Repair Software (MDARS)



Quick Check | Toolbox | Software update

ECU Reprogramming

Be sure to check the following and perform the software update with MDARS.

☐ Have you checked the Dealer letter or Technical Service Bulletin?

☐ Do you understand the work involved?

Next

CX-90 EXAMPLE:

Mazda Diagnostic and Repair Software (MDARS)



Quick Check | Toolbox | Software update

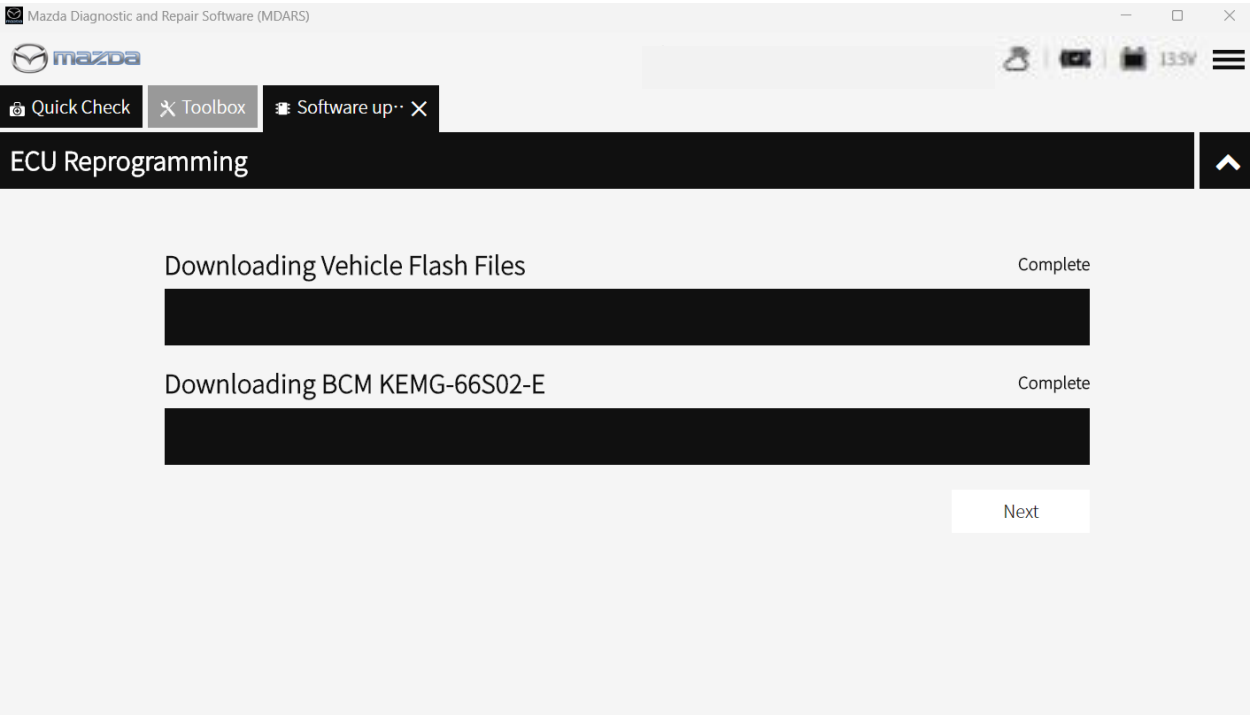
ECU Reprogramming

Downloading Vehicle Flash Files Complete

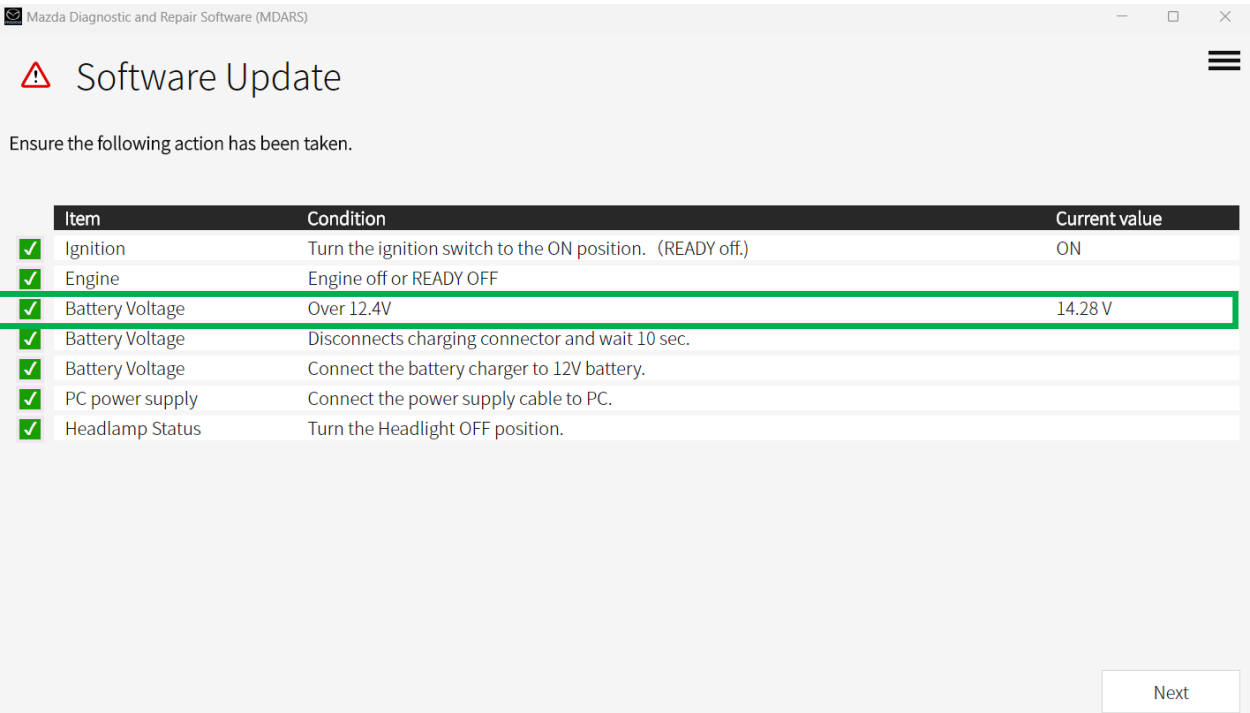
Downloading BCM KMW7-66S02-K Complete

Next

CX-70 EXAMPLE:

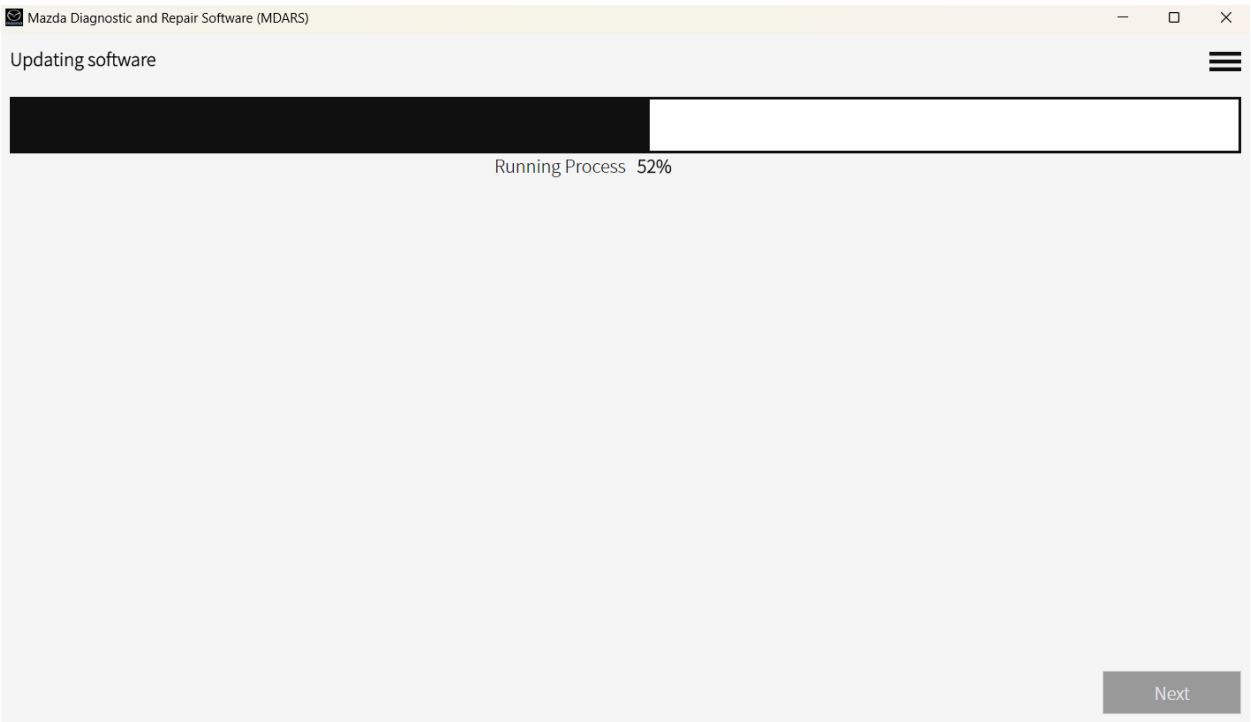


BOTH CX-90 and CX-70

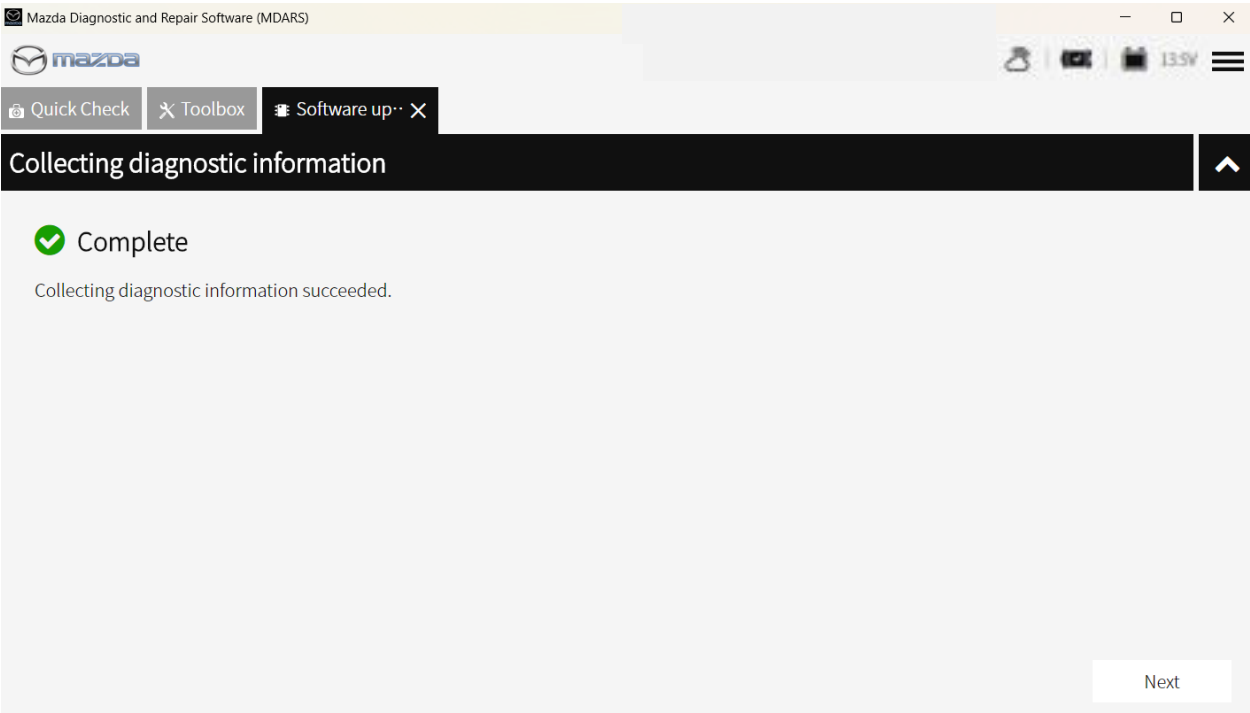


SAFETY AND EMISSIONS RECALL 7825I
REPAIR PROCEDURE

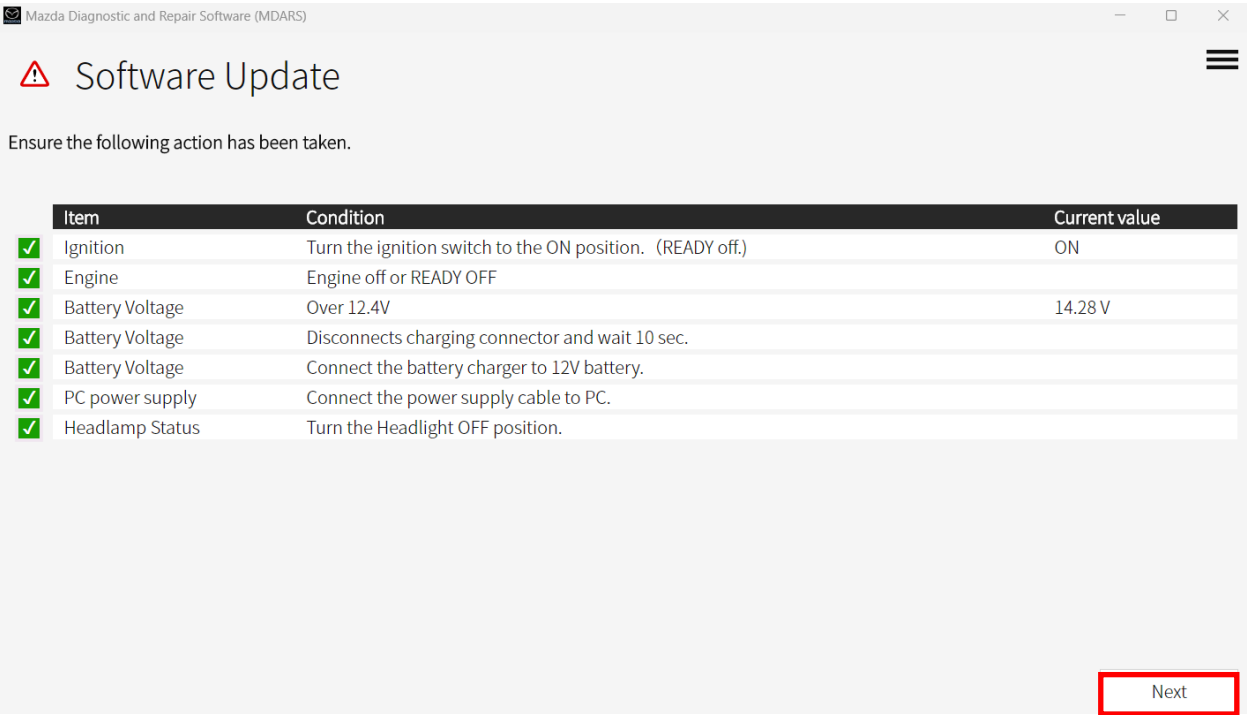
C. This is the screen while the software is being updated. The progress bar does not change for about 60 seconds. **BOTH CX-90 and CX-70.**



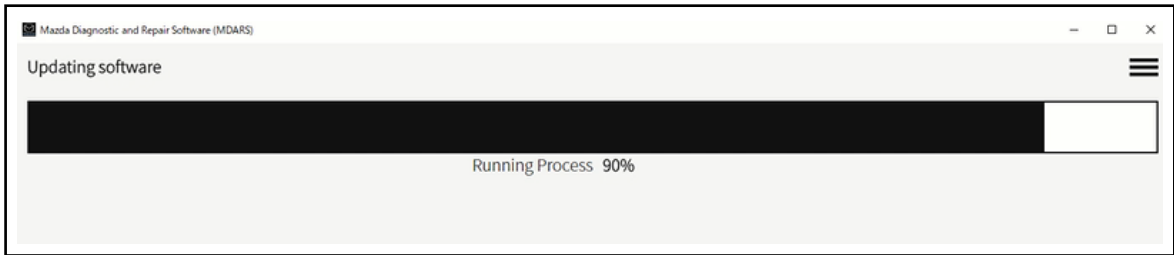
SAFETY AND EMISSIONS RECALL 7825I
REPAIR PROCEDURE



D. MDARS may return to screen shown in step (1) multiple times (this is normal operation.). If so, each time turn the ignition switch to the ON position and then click 'next'.

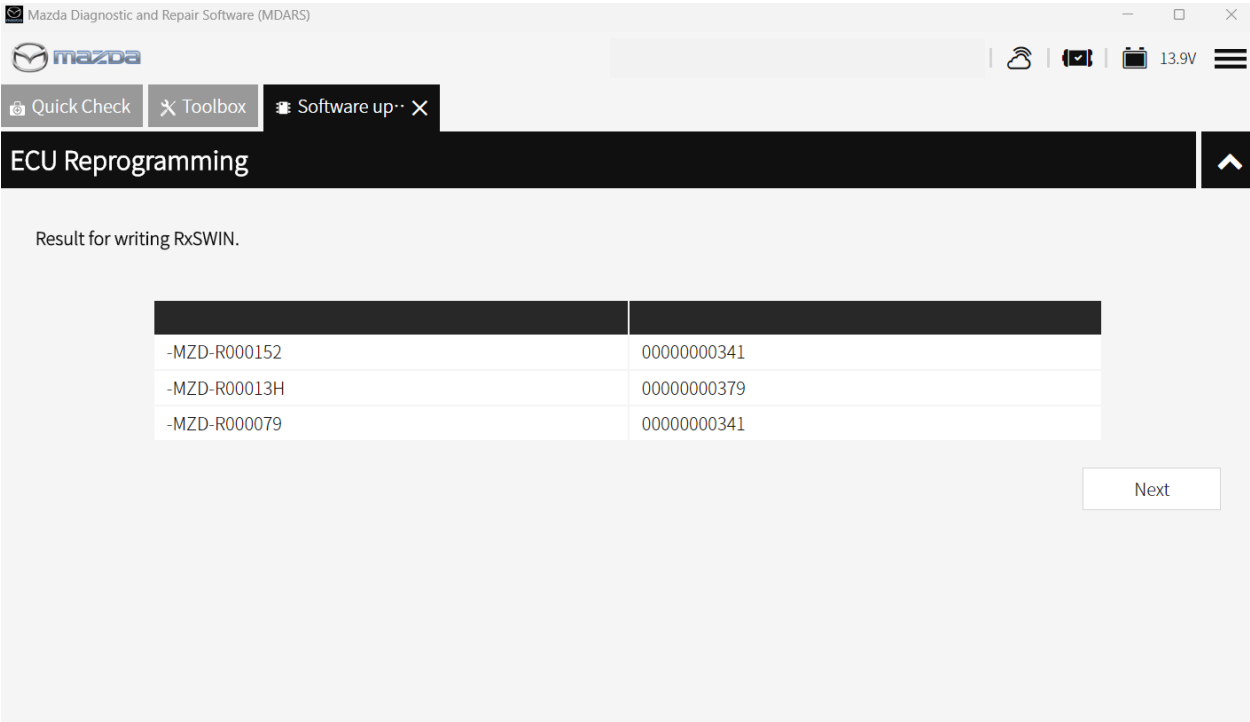


- E. When the software is being updated and advances to 90% on the screen, it may stop advancing for about 60 seconds. Please wait until reprogramming is complete.



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

CX-70 ONLY



CX-90 EXAMPLE

Mazda Diagnostic and Repair Software (MDARS)

Quick Check Toolbox Software update

ECU Reprogramming

Software Update Summary

Description	Previous Version	Current Version	✓
BCM	KMW7-66S02-G	KMW7-66S02-K	✓

CAUTION: Refer to the Workshop Manual/Service Information to verify if further actions are needed.

Finish

Match version in calibration table below

CX-70 EXAMPLE

Mazda Diagnostic and Repair Software (MDARS)

Quick Check Toolbox Software update

ECU Reprogramming

Software Update Summary

Description	Previous Version	Current Version	✓
BCM	KEMG-66S02-C	KEMG-66S02-E	✓

CAUTION: Refer to the Workshop Manual/Service Information to verify if further actions are needed.

Finish

Match version in calibration table below

Calibration file information

Note: If the calibration file is the suffix of "Previous Version" is the same as in the Calibration File Information table or later (already up to date), the module is already modified proceed to Manual ODR Update.

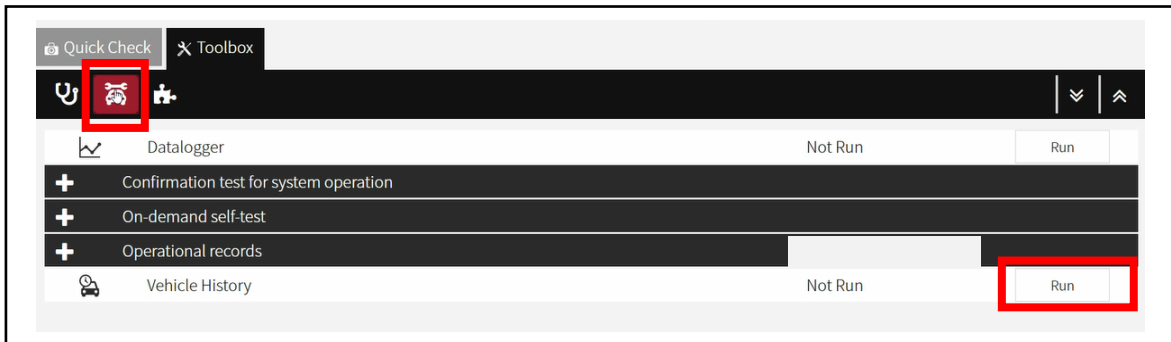
NOTE: The C-BCM is being updated inside the BCM with this recall repair.

Model	Module	Target ECU (Hardware #)	Target Software file # (or later)	Reprogram Time (min.)
CX-90	BCM	KR9P-67560-	KMW7-66S02-K	3 minutes
		KEMG-67560-	KMW7-66S02-K	
		KEYG-67560-	KMW7-66S02-K	
CX-70	BCM	KEMG-67560-	KEMG-66S02-E	
		KEYG-67560-	KEMG-66S02-E	

Check/Upload ODR Data

Check ODR collection result after reprogramming all required modules with vehicle verification.

- 7.** Open the vehicle history on toolbox tab.



- 8.** Click the 'Collect Diagnostic Information' and the status has "SUCCESS" on green. You must Verify the "Collect Diagnostic Information" after all required modules are updated. Not necessary to confirm the 'Collect Diagnostic Information' after required module reprogram every time.

Note: Only the latest "Collect Diagnostic Information" is the valid one and that needs to show "SUCCESS"

※If the status is 'FAILURE', the ODR (latest vehicle information) has not been submitted to the server.

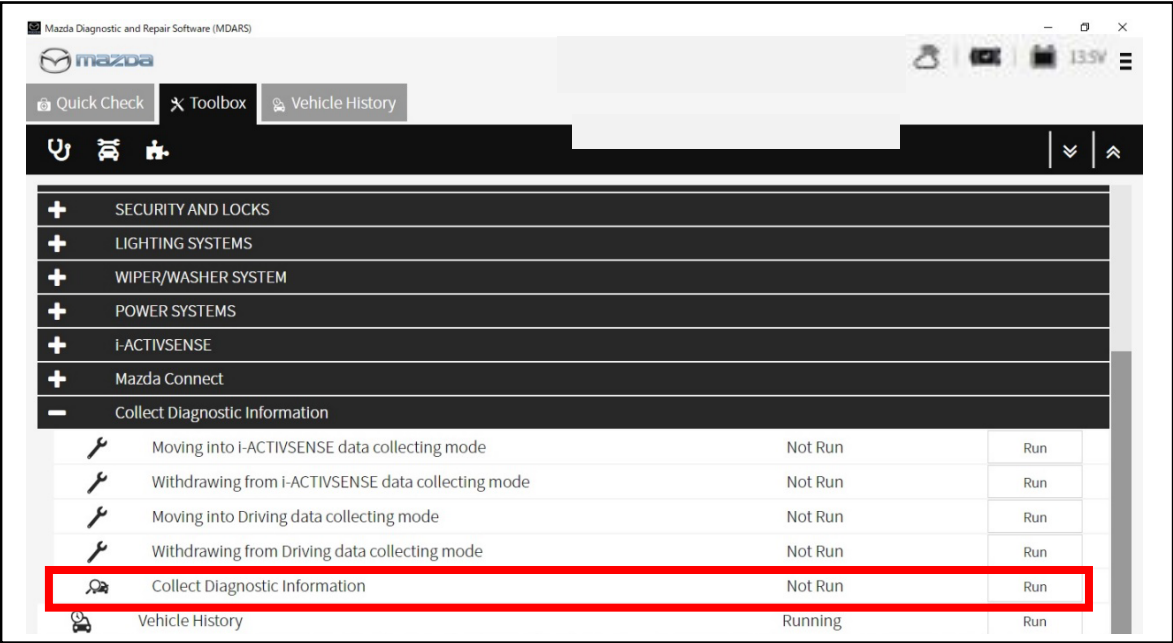
Status: FAILURE

Duration: 1 seconds

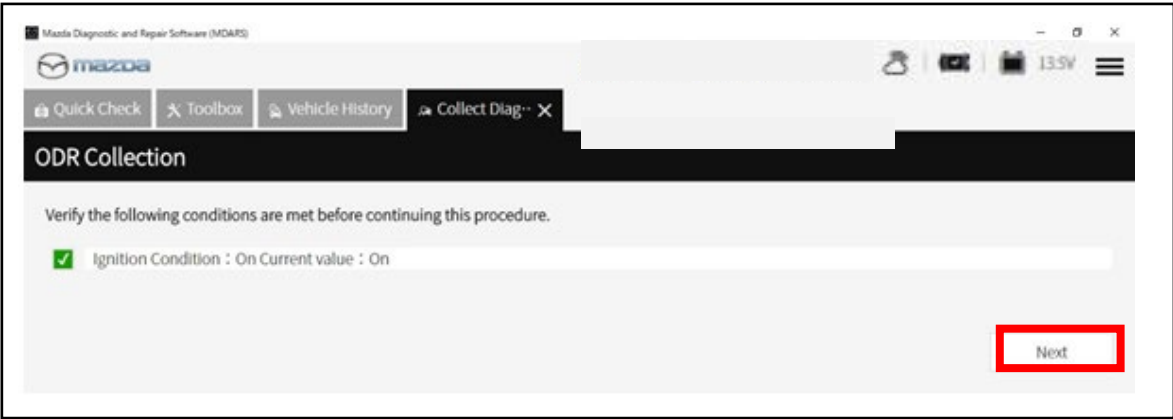
- 9.** Perform following steps when status, as shown above, shows "FAILURE".

SAFETY AND EMISSIONS RECALL 78251
REPAIR PROCEDURE

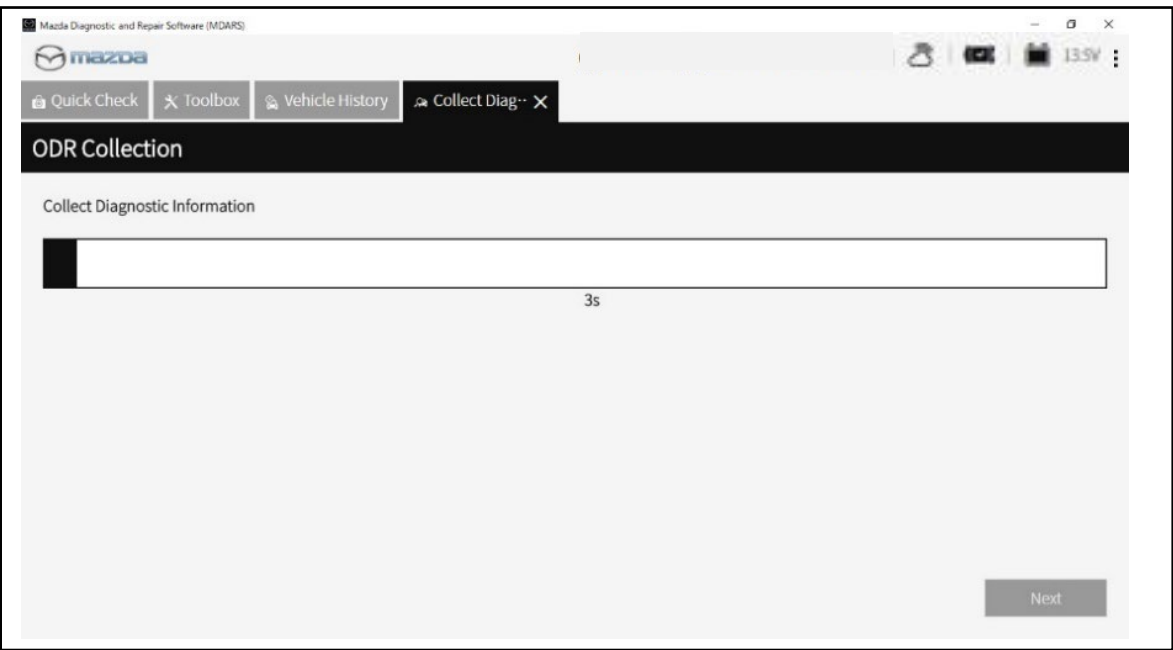
A. At the toolbox tab, select “Collect Diagnostic information” then click ‘Run’.



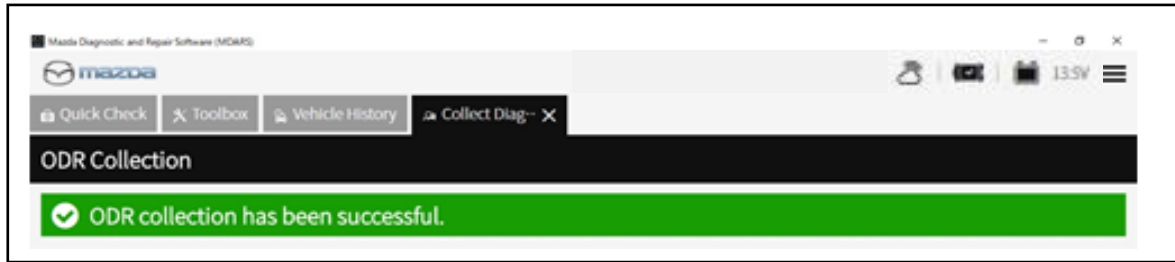
B. Click ‘Next’.



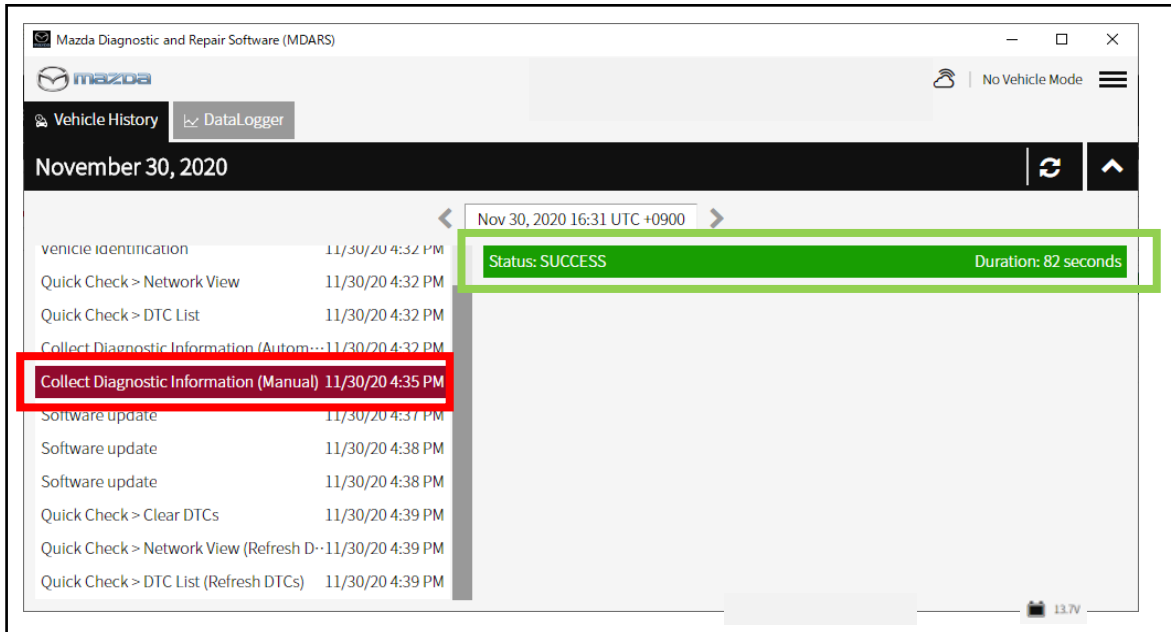
C. It takes around 60 seconds.



D. MDARS will collect ODR and send to the server.



E. Go back to step 14 and 15 to confirm the 'Collect Diagnostic Information (Manual)' status shows "SUCCESS" on green.



DTC inspection

- G. Check and erase DTC by using MDARS.
- H. Confirm all DTCs were erased.

- If any DTCs should remain after performing DTC erase, diagnose the DTCs according to the appropriate troubleshooting section of the Workshop Manual.
Note:
- After the reprogram, pending DTC P2610:00 [PCM] may be stored without MIL illumination. Since this DTC may turn to a current g on operations after the reprogramming, clear this DTC after all repair work done.
- Perform the following engine start and stop procedure to clear DTC P2610:00:
 - 1) Start the engine (5 seconds).
 - 2) Stop the engine.
 - 3) Clear the DTC recorded in the memory by MDARS.
 - 4) Perform the KOER self-test by MDARS.

- I. Disconnect the MDARS from the DLC-2.

Explanation to customers

- Any ECU reprogramming resets the BCM's average fuel economy (remaining mileage).
- Therefore, the remaining mileage may change if customer drive after reprogramming.
- After learning the customer's average fuel consumption calculated over several drives, the remaining mileage will be displayed correctly.

[Recovery Mode Procedure – Click here if programming fails.](#) Then return here and move to the next step in the procedure after recovery.

NOTE: If the calibration file up-to-date (suffix is equal to or greater than shown in the table), the module is already modified but ODR (Manual) update is still required.



10. Software Update Check – BCM must be present in “Software Update”

- A. Confirm NO DTC's exist after software update AND after Automatic ODR update. If DTC's do exist, do not proceed to step 14b. and clear any DTC's present.

NO DTC's are listed – this is a GOOD result

< Jan 10, 2025 07:57 UTC -0800 >

Quick Check > Network View 1/10/25 7:57 AM

Quick Check > DTC List 1/10/25 7:57 AM

Collect Diagnostic Information (Automa... 1/10/25 7:57 AM

Collect Diagnostic Information (ECU SW... 1/10/25 8:03 AM

Status: SUCCESS

Module	DTC	Description

- B. Confirm update of BCM Module. There must be a “Software Update” with BCM listed as the module updated or, if already updated, the “OLD” version must match the updated version in the table. **If the Software is up to date there will be no “NEW” version, in this case check the current “OLD” version is the updated version as in the calibration file table and move to step 11.**

SAFETY AND EMISSIONS RECALL 78251 REPAIR PROCEDURE

CX-90 EXAMPLE

Mazda Diagnostic and Repair Software (MDARS)

mazda

Vehicle History DataLogger

September 2, 2025

Sep 2, 2025 08:09 UTC -0700

Quick Check > Network View (Refresh DT... 9/2/25 8:18 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 8:18 AM

Collect Diagnostic Information (ECU SW ... 9/2/25 8:27 AM

Software update 9/2/25 8:28 AM

Quick Check > Network View (Refresh DT... 9/2/25 8:28 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 8:28 AM

Quick Check > Clear DTCs 9/2/25 8:28 AM

Quick Check > Network View (Refresh DT... 9/2/25 8:29 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 8:29 AM

Collect Diagnostic Information (Manual) 9/2/25 8:30 AM

Quick Check > Network View (Refresh DT... 9/2/25 8:33 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 8:33 AM

Status: SUCCESS Duration: 0 seconds

BCM	OLD	NEW	Recovery Count
\$726 SW	KMW7-66S02-G	KMW7-66S02-K	0

CX-70 EXAMPLE

Mazda Diagnostic and Repair Software (MDARS)

mazda

Quick Check Toolbox Vehicle Hist...

September 2, 2025

Sep 2, 2025 09:03 UTC -0700

Quick Check > Network View (Refresh DT... 9/2/25 9:20 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 9:20 AM

Collect Diagnostic Information (ECU SW ... 9/2/25 9:26 AM

Software update 9/2/25 9:28 AM

Quick Check > Network View (Refresh DT... 9/2/25 9:28 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 9:28 AM

Quick Check > Clear DTCs 9/2/25 9:28 AM

Quick Check > Network View (Refresh DT... 9/2/25 9:29 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 9:29 AM

Quick Check > Network View (Refresh DT... 9/2/25 9:31 AM

Quick Check > DTC List (Refresh DTCs) 9/2/25 9:31 AM

Collect Diagnostic Information (Manual) 9/2/25 9:32 AM

Status: SUCCESS Duration: 0 seconds

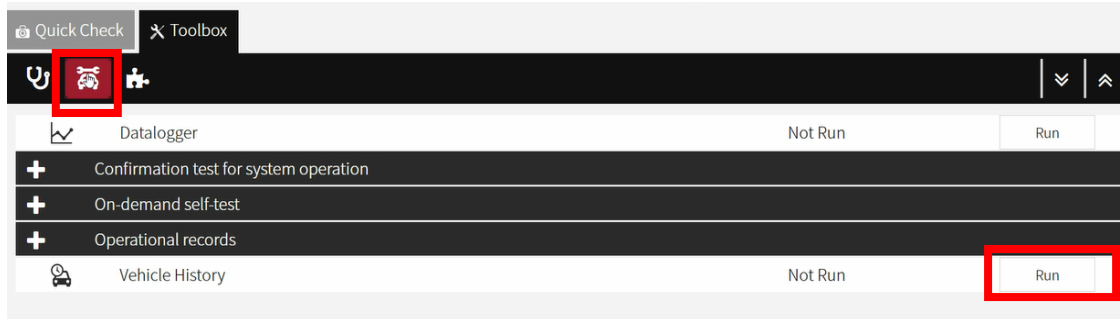
BCM	OLD	NEW	Recovery Count
\$726 SW	KEMG-66S02-C	KEMG-66S02-E	0

11. ODR (Manual) Update

WARNING! FAILURE TO PERFORM AN ODR (MANUAL) UPDATE WILL RESULT IN CLAIM DENIAL, CAMPAIGN REMAINING IN OPEN STATUS AND VEHICLE HAVING TO COME BACK TO REDO THE ODR DATA PUSH

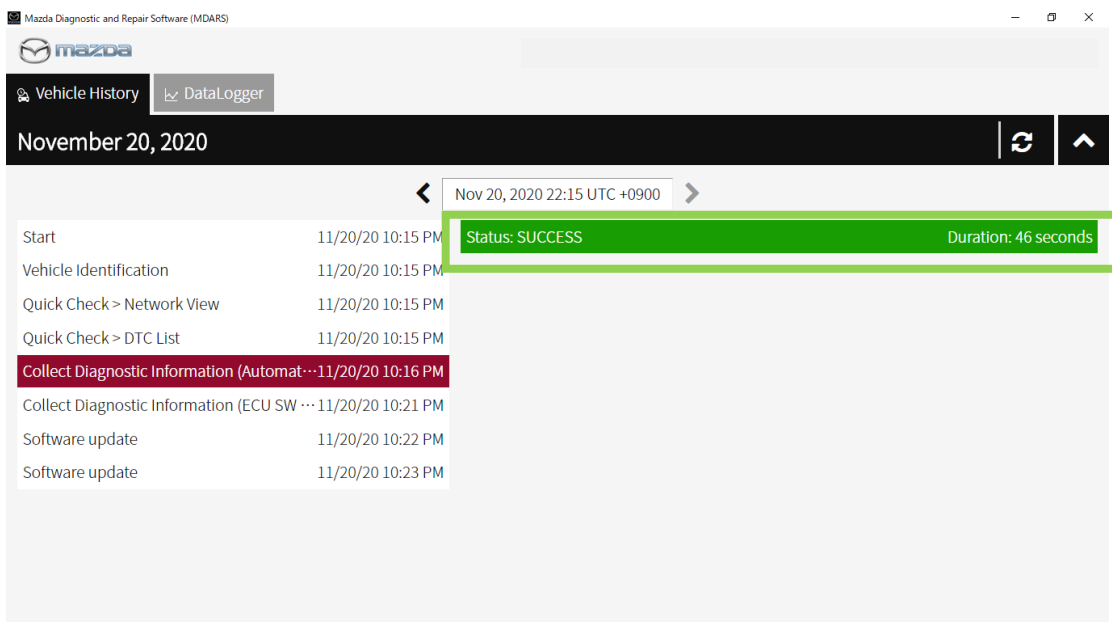
Upload ODR Data - Check for ODR collection result after reprogramming all required modules with vehicle verification. Then proceed to perform an ODR (Manual) Update

A. Open the vehicle history on toolbox tab.



B. Click the 'Collect Diagnostic Information' and make sure the status is 'SUCCESS' in green. **NOTE:** Verify by selecting 'Collect Diagnostic Information' after all required modules are updated. It is not necessary to confirm the 'Collect Diagnostic Information' after required module reprogram every time.

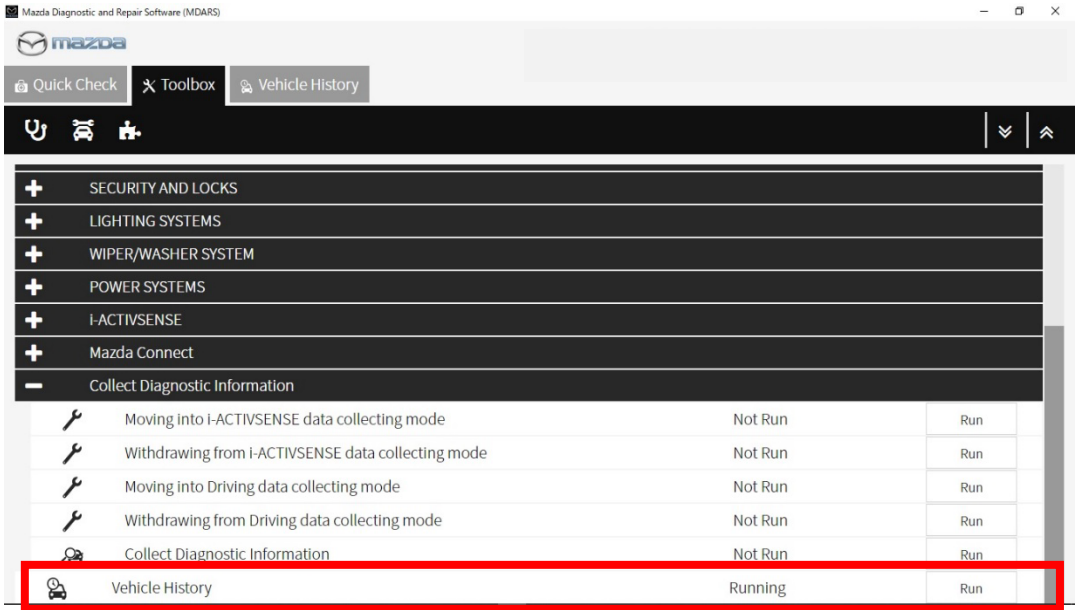
Only the latest "Collect Diagnostic Information" is the considered valid and that needs to show "SUCCESS"



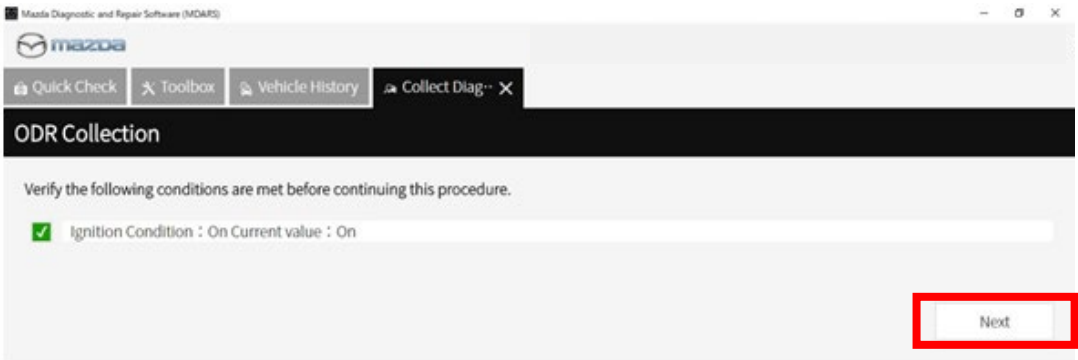
CAUTION: If the status is 'FAILURE', the ODR (latest vehicle information) has not been submitted to the server, continue with steps below.

Status: FAILURE **Duration: 1 seconds**

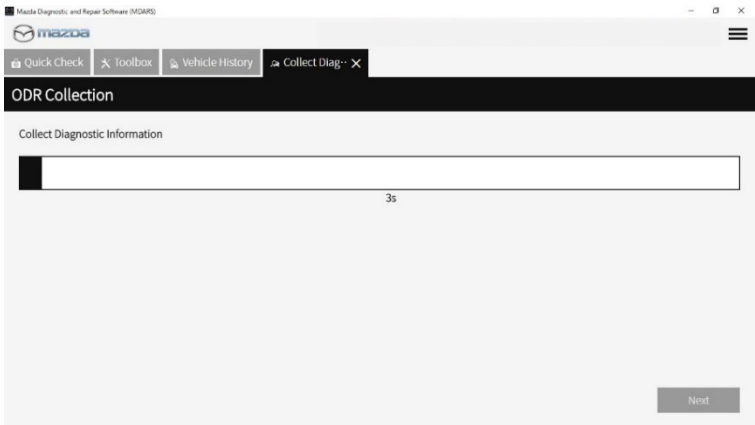
C. 'Collect Diagnostic information' then click 'Run' at the tool box tab.



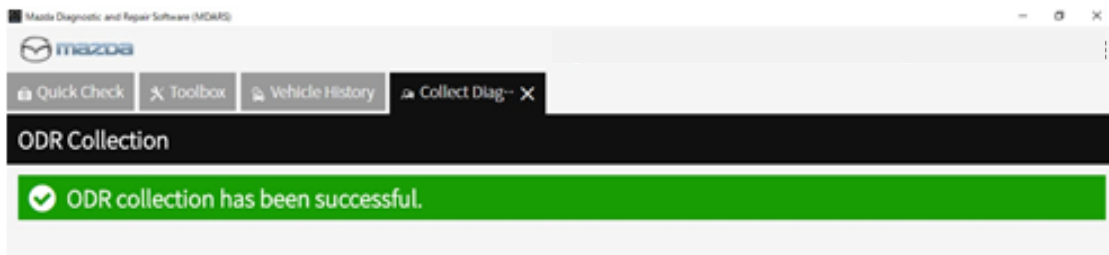
D. Click 'Next'



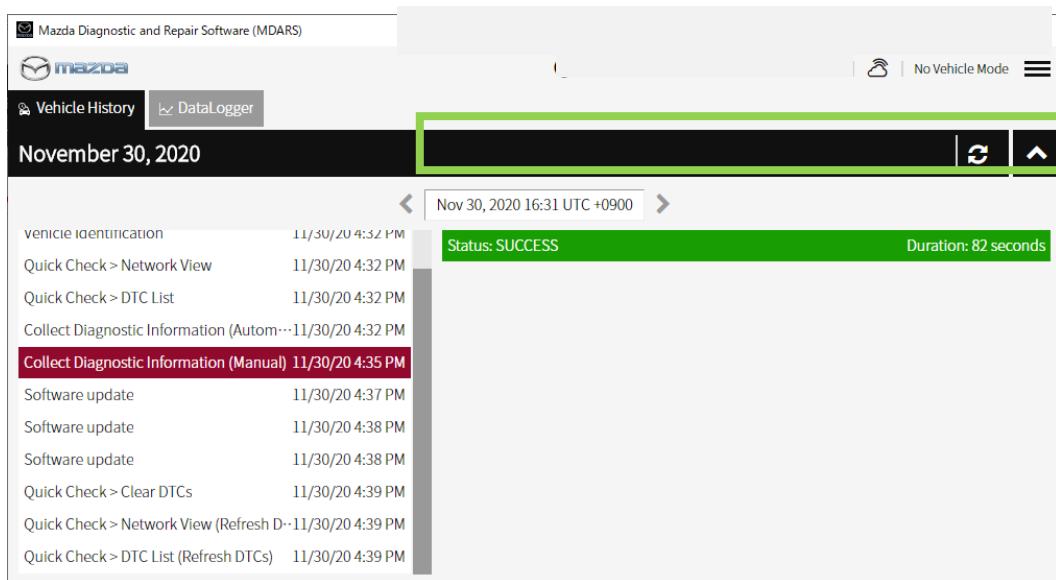
E. This may take around 60 seconds.



F. MDARS has collected ODR data and confirmation has been sent to the server.



G. Check to make sure "Collect Diagnostic Information (Manual)" appears and Status shows 'SUCCESS' in green. **If this step is not completed, your warranty claim will not be approved and the customer will need to return for a re-repair.**



C. Disconnect the MDARS from the DLC-2.

-----END OF SECTION B-----

GO TO SECTION C. CAMPAIGN LABEL INSTALLATION

C. Campaign Label Installation

1. Fill out a Black "Campaign Label" (9999-95-055A-06) with Campaign #: "7825I", 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: _____

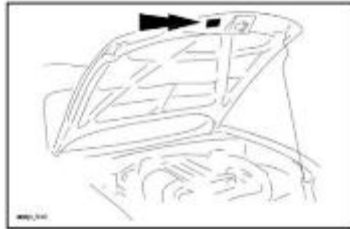
DEALER CODE: _____

DATE: / /

PIN 9999-95-055A-06

1326

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