

***** All: Please watch for continuous updates to this procedure *****

As of September 24, 2025 the two vehicles in the 7625F campaign are repaired, which is a 100% completion with no outstanding unrepaired vehicles.

The repair for campaign 7625F (only two vehicles) is included in the 7725F Safety and Emissions repair procedure below.

Please refer to the Dealer emails in MGSS for each recall with a summary of the repair for both campaign 7625F and 7725F.

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

Flowchart [Section A](#)

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Campaign Label Installation..... [Section C](#)

Vehicle Inspection Procedure and Preparation for Repair (campaign 7725F and includes repair for 7625F for the 2 vehicles affected by that campaign)

1. Verify that the vehicle is within the following ranges and there is an Announced or OPEN 7725F campaign in eMDCS:

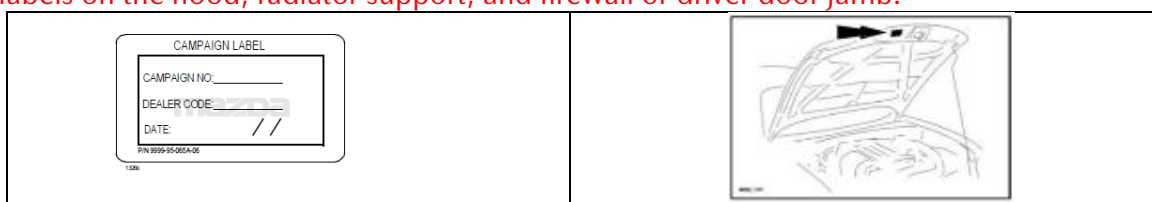
SUBJECT VEHICLES

Model	Subject VIN range	Engine type	Production date
2025MY CX-50	7MMVA A*W* SN 116853 – 117034	CW (HEV)	February 26-27, 2025
	7MMVA BBM5 SN 351989	SKYACTIV-G 2.5	February 27, 2025
	7MMVA BEM4 SN 352031		

*Only the vehicles in this range and with a “Announced” or “Open” status in eMDCS are affected. If the vehicle is in the range above and 7725F is either in OPEN or Announced status in eMDCS, proceed to Step 2. If the vehicle does not have an OPEN or Announced 7725F campaign, return the vehicle to the customer or inventory.

2. Perform an eMDCS Warranty Vehicle Inquiry and inspect the vehicle for a Campaign Label with **7725F** 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 7725F, 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 7725F, 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 7725F is not displayed	See Action	The vehicle is not affected by the Recall



Customer Personal Items: If personal belongings need to be removed from vehicle interior trunk area or inside, please remember to neatly replace any customer items in the same location after the repair is completed. If items need to be removed, please kindly ask the customer to remove prior to beginning work on the vehicle.

Paint or other damage to interior or exterior: Care should be taken, and protective cover(s) used when working on any Mazda vehicle. Damage to any components, interior trim, vehicle accessories, body panels and paint will not be reimbursed by Mazda (including OEM or aftermarket). All of these items above could delay repairs, compromise safety, as well as negatively affect the customer experience and Mazda dealer-customer relationship.

Parts Information:

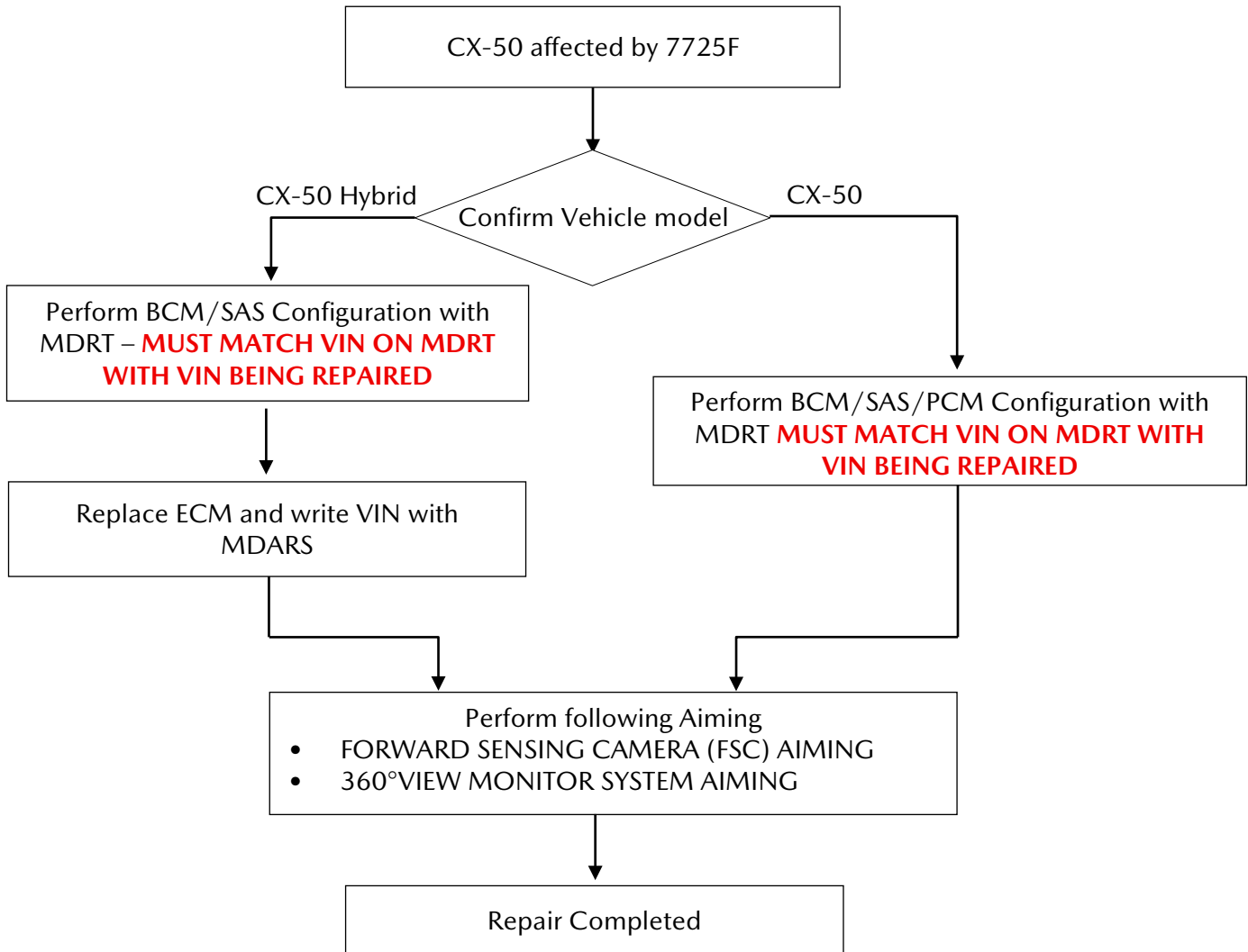
Description	Part Number	Quantity	Applicable Model
Engine Control Module	CW01-30-120B	1	CX-50 Hybrid

Inspect the part for damage: If any is found inform your Parts Manager immediately. Parts that are damaged by dealer personnel are not reimbursable.

Section A : Flow Chart



NOTE: This Flow Chart needs to be followed strictly. Errors resulting from not following this flow chart will need to be absorbed by the Mazda dealership and could cause a repeat repair and a poor Customer Experience for your dealership.



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

Section B : Repair Procedure

Perform Configuration by MDRT(All subject vehicle requires this process)

Subject	Module Configuration
Recall 7725F	✓

PICTURE IS SAMPLE ONLY. EACH MDRT IS SPECIFIC TO THE VIN AND IS MARKED AS SUCH



1. Confirm the F50 (15A) fuse has been installed. If not, install it.



MDRT Handling Caution

MDRT is sensitive equipment. Please handle it gently and avoid dropping the tool, leaving the tool in the sun or getting it wet.

To avoid module damaged during configuration.

- Do not disconnect MDRT from OBDII connector.
- Do not start engine.
- Do not turn IG-Off.

When you perform configuration with MDRT:

- Turn off all electric loads such as air-conditioning, audio system etc.
- **Connect Battery charger to 12V vehicle battery before configuration correctly. Do not allow the battery voltage to drop too low. If the battery discharges, the module can fail which will require recovery or replacement at dealer's expense.**
- Do NOT touch the MDRT while Green or Blue light is blinking with frequent beep sound.
- During configuration operation, center display and instrument cluster may blink, which is

NOT abnormal.

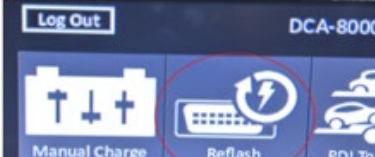
When connecting MDRT, approach from outside of the vehicle (driver side) and visually confirm that the MDRT is firmly connected to the DLC connector. Update the software according to the following procedure. Do not remove the MDRT during configuration procedure. If accidentally bumped or removed, it will cause the ECU(s) to fail. Then you will not be able to start the engine or have other symptoms. Otherwise, module replacement may be required.

IMPORTANT: Return the MDRT to MNAO TSD OVERNIGHT when finished so they can download the files and RELEASE THE VEHICLE. CAR IS NOT REPAIRED UNTIL CONFIRMED BY MNAO TSD.

2. You must connect a Battery Charger to 12V vehicle Battery to avoid voltage drop during software update.

Service caution during configuration for ECU(s)

During configuration, connect battery charger to the 12V vehicle battery to stabilize voltage fluctuation. If missing, it may cause damage to ECUs due to decreasing voltage. 7th generation vehicle may control to turn on headlight forcibly during configuration 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.



3. Perform configuration by the MDRT.

Note: If any of warning lamp illuminates or flashes in the instrument cluster, repair it according to the Workshop Manual before configuration.

Note: The unit to be configured.

CX-50: BCM, SAS, PCM

CX-50 Hybrid: BCM, SAS

3-1 Switch the ignition to off.

3-2 Connect the MDRT to OBDII connector.

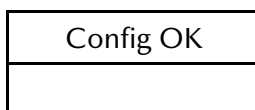
Note: Wait until the green/blue and the red LED turn on with "IGON" on the display, then go to next step.

3-3 Switch the ignition to On (Engine Off).

3-4 Monitor the MDRT display.

Note: The configuration needs **4 minutes or more**. (Pulsing beeps will sound during the configuration)

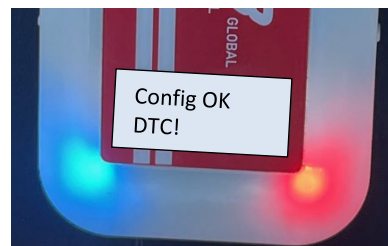
4. Verify the configuration result on the display of the MDRT and confirm that the display shows following message.



5. Turn OFF then wait for 15 seconds.

IMPORTANT: If display shows message as "Config OK DTC!", proceed with following procedure.
By performing this procedure, MDRT can erase DTC automatically.

- 5-1 Turn IG off then wait for 15 seconds.
- 5-2 Disconnect the MDRT
- 5-3 Turn IG on (with Engine RUN)
- 5-4 Stay 5 seconds on idle.
- 5-5 Turn IG off.
- 5-6 Connect the MDRT.
- 5-7 Turn IG on (Engine Off).
- 5-8 Wait for 5 minutes then go to step 7



Calibration file information

Model	Module	Target ECU (Hardware #)	Target	Configuration Time (min.)
CX-50 (VA)	BCM	KR9P-67560	Configuration data	Approx. 4min
	SAS	VC67-57K30 VG03-57K30		
	PCM	PY60-18881		

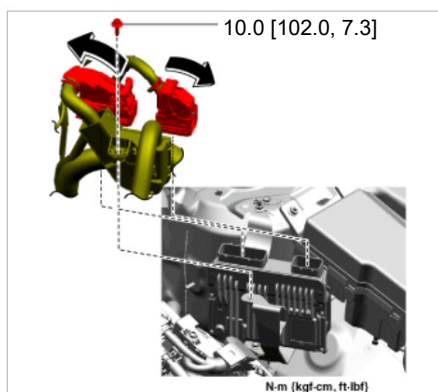
6. Switch ignition to OFF and remove the MDRT



Steps 7 through Step 10 is required for CX-50 Hybrid
For CX-50, go to Step 11.

Do NOT follow Workshop manual for replacing ECM. Please follow below steps.

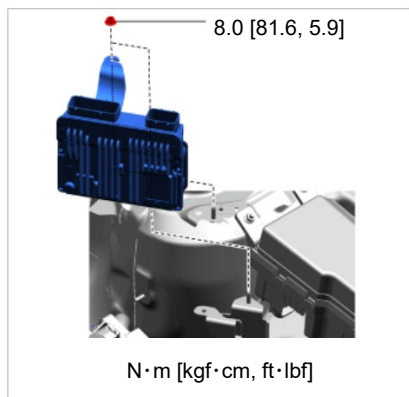
7. Replace the ECM by following below step.
- 7-1 Disconnect the negative lead-acid battery terminal. (See [NEGATIVE LEAD-ACID BATTERY TERMINAL DISCONNECTION/CONNECTION \[CW\]](#).)
 - 7-2 Push in the locks on the two levers, raise the two levers, and disconnect the two ECM connectors.



N·m [kgf·cm, ft·lbf]

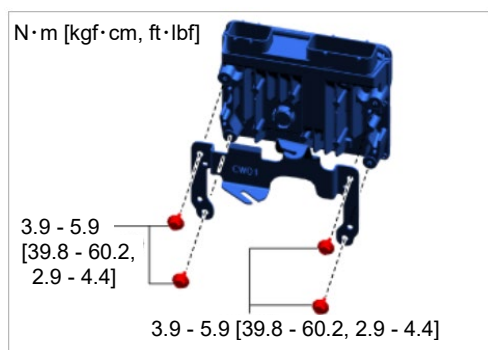
7-3 Remove the bolt and detach the clamp.

7-4 Remove the two nuts.



NOTE: If the ECM has been struck or dropped, replace it.

7-5 Remove the four bolts and ECM bracket from the ECM.



7-6 Install new ECM in the reverse order of removal.



NOTE: This Flow Chart needs to be followed strictly. Errors resulting from not following this flow chart will need to be absorbed by the Mazda dealership and could cause a repeat repair and a poor Customer Experience for your dealership.

8. Perform the initialization (See [ENGINE SYSTEM INITIALIZATION \[CW\]](#).)
9. After, ECM is replaced, perform the following procedure.
 - 9-1 Disconnect the cooling fan motor connector. (See [COOLING FAN MOTOR REMOVAL/INSTALLATION \[CW\]](#).)
 - 9-2 Connect the negative lead-acid battery terminal. (See [NEGATIVE LEAD-ACID BATTERY TERMINAL DISCONNECTION/CONNECTION \[CW\]](#).)
 - 9-3 Connect the M-MDS to the DLC-2.
 - 9-4 Switch the main power ON (READY off or on).
 - 9-5 Perform the following procedure using the M-MDS.



CAUTION: If the configuration fails, perform the configuration again.

- 1) Press [Start] to start the vehicle identification.
- 2) Press the [Toolbox] tab.
- 3) Press the [Work Support] icon.

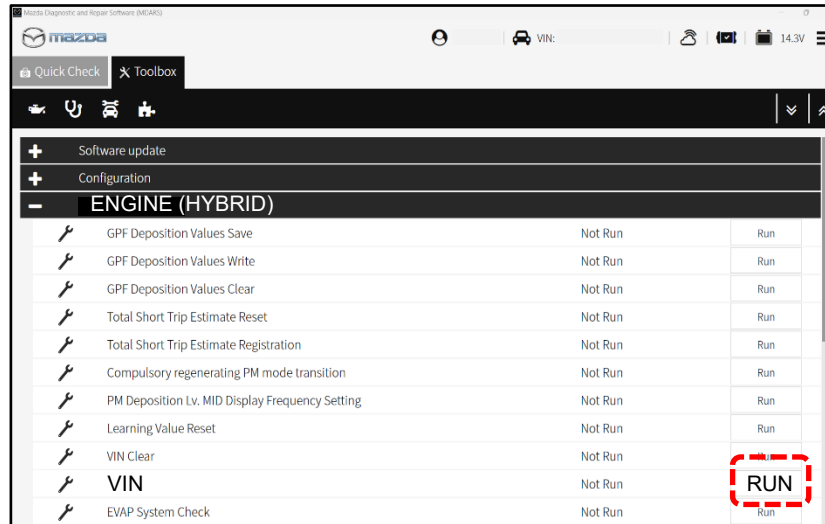
- 4) Press [Configuration].
- 5) Press [Run] for [Configuration].
- 6) Press [Other].

9-6 Perform the servicing following the instructions on the screen.

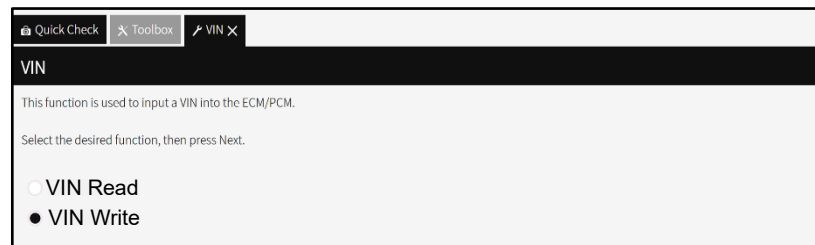
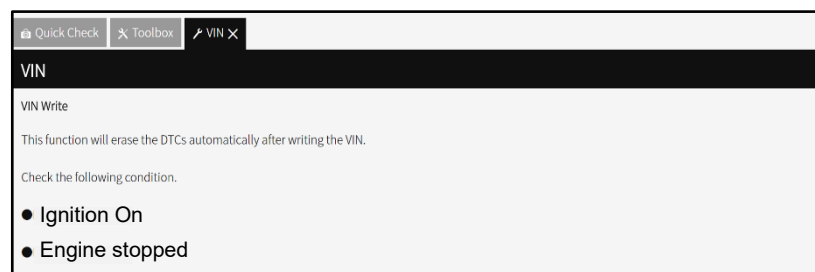
10. Write VIN to ECM by using MDAR

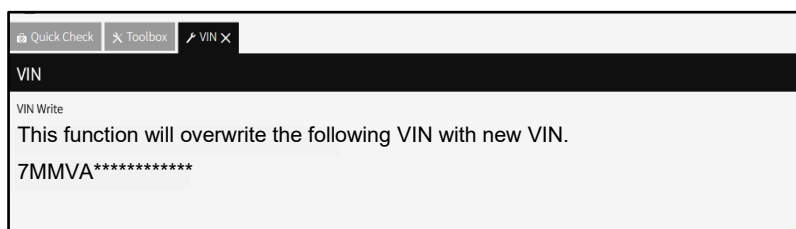
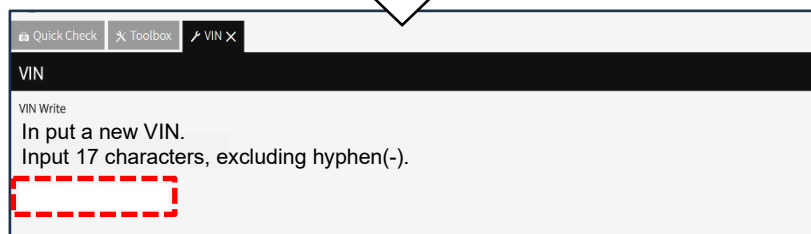
10-1 Confirm each other vehicle VIN by frame VIN stamp and MDARS.

10-2 Enter the following menus: Work Support / ENGINE (THS) / VIN.

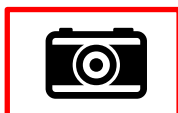


10-3 According to the display on the MDARS, write the VIN to the ECM.





- 10-4 Take a photo that clearly shows the entered VIN and the VIN displayed at the lower right corner of the front windshield, confirming that they match.



NOTE: This photo will be attached to the warranty claim as evidence that the work has been properly completed.

- 10-5 Disconnect the negative lead-acid battery terminal. (See [NEGATIVE LEAD-ACID BATTERY TERMINAL DISCONNECTION/CONNECTION \[CW\]](#).)
- 10-6 Connect the cooling fan motor connector. (See [COOLING FAN MOTOR REMOVAL/INSTALLATION \[CW\]](#).)
- 10-7 Connect the negative lead-acid battery terminal. (See [NEGATIVE LEAD-ACID BATTERY TERMINAL DISCONNECTION/CONNECTION \[CW\]](#).)
- 10-8 Connect the M-MDS to the DLC-2.
- 10-9 Perform the DTC inspection using the M-MDS. (Refer to [DTC INSPECTION] in the troubleshooting manual.)

NOTE: If a DTC is stored, repair the malfunctioning location according to the applicable DTC troubleshooting. (Refer to [DTC TABLE [ECM]] in the troubleshooting manual.)



Step 11 requires for both CX-50 and CX-50 Hybrid

11. FORWARD SENSING CAMERA (FSC) AIMING. Refer to [[FORWARD SENSING CAMERA \(FSC\) AIMING](#)] in the troubleshooting manual
12. 360°VIEW MONITOR SYSTEM AIMING. Refer to [[360°VIEW MONITOR SYSTEM AIMING](#)] in the troubleshooting manual



NOTE: In static aiming process table of the trouble shooting manual > work support, always start from Step 4.

REPAIR PROCEDURE
SAFETY AND EMISSIONS RECALL 7625F & 7725F

Step	Procedure		Action after procedure
1	<ul style="list-style-type: none"> Was the parking assist unit (optical)/360° view monitor control module replaced? 	Yes	Go to Step 4.
		No	Go to the next step.
2	<ul style="list-style-type: none"> To determine if aiming is necessary or not, perform the 360° view monitor system screen display verification procedure. Is it necessary to perform aiming? 	Yes	Go to the next step.
		No	Procedure is completed.
3	<ul style="list-style-type: none"> Which of the cameras requires aiming? 	Front camera	Perform the front camera aiming and go to Step 5.
		Side camera	Perform the side camera aiming and go to Step 5.
		Rear mount camera	Perform the rear mount camera aiming and go to Step 5.
4	<ul style="list-style-type: none"> Are 4 sets of the SST (49 JP04 001) available? <p>Note: For the 360° view monitor system aiming (batch aiming), 4 sets of the SST (49 JP04 001) are required.</p>	Yes	Perform the 360° view monitor system aiming (batch aiming) procedure and go to Step 5.
		No	Individually perform aiming for the camera requiring aiming, then go to Step 5.
5	<ul style="list-style-type: none"> Perform the 360° view monitor system screen display verification procedure. Is 360° view monitor system aiming procedure needed? 	Yes	Repeat Step 4.
		No	Procedure is completed.

13. Go to Section C. Campaign Label Installation

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

Section C: Campaign Label Installation

1. Fill out a Black "Campaign Label" (9999-95-055A-06) with Campaign #: "7625F and/or 7725F", 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

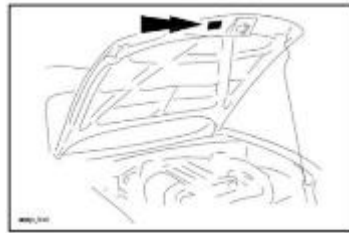
CAMPAIGN NO: _____

DEALER CODE: _____

DATE: / /

PIN 9999-95-055A-06

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