

UPDATE: June 16, 2025 – Clarified step 7 when error on MDRT is displayed.

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Vehicle Inspection Procedure and Preparation for Repair

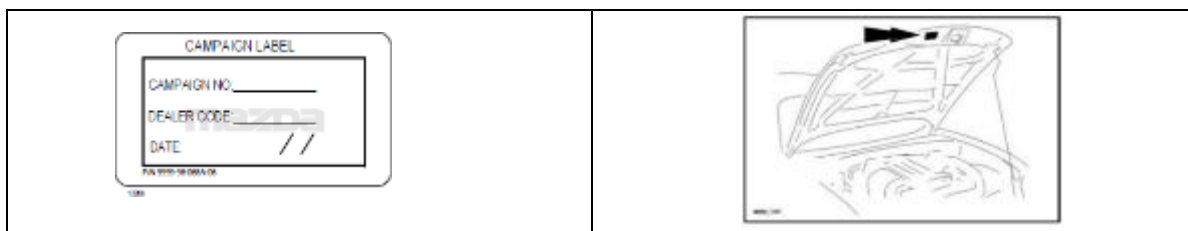
1. Verify that the vehicle is within the following ranges and there is a Not Launched or OPEN 6924I recall, in eMDCS:

SUBJECT VEHICLES RECALL 6924I

Model	Subject VIN range	Subject production date range
2017-2023 MX-5	JM1NDA****1 100016– 560957	From April 20, 2015 through November 2, 2023

2. Perform an eMDCS Warranty Vehicle Inquiry and inspect the vehicle for a Campaign Label with **6924I** 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 6924I, 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 6924I 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 6924I 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).

GENERAL CAUTIONS/WARNINGS – PLEASE READ:



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.

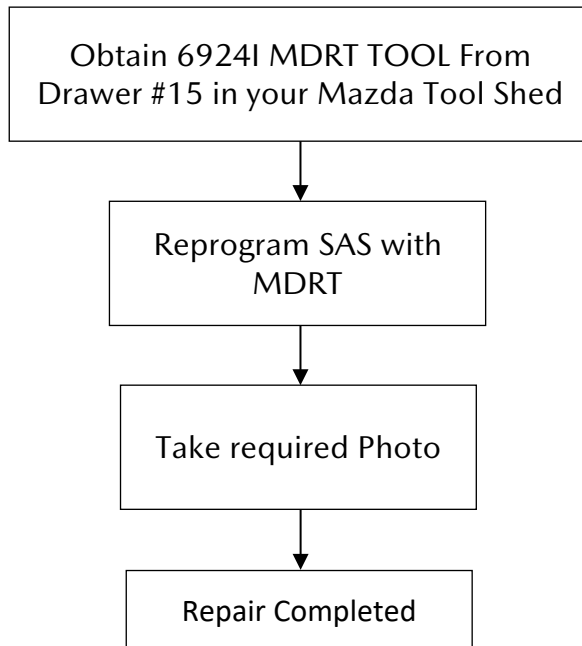
Damage to interior or exterior (Glass, Trim, etc.): Care should be taken, and protective cover(s) used when working on any Mazda vehicle. Damage to any components, interior trim, vehicle accessories, body panels and paint will not be reimbursed by Mazda (including OEM or aftermarket).

All of these items above could delay repairs, compromise safety, as well as negatively affect the customer experience and Mazda dealer-customer relationship.

Section A : Flow Chart



NOTE: PLEASE READ THESE WARNINGS CAREFULLY



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

Section B : Repair Procedure Recall 6924I

Tools Required
A. 6924I MDRT Tool from Drawer #15 (tool is black or blue) This tool can also be used for campaign SSPA6 (2016 CX-5 Passenger Airbag Module Update)
B. Digital camera or Cell Phone with camera that has very good resolution (12MP , e.g., iPhone 8 or Samsung Galaxy 23 or above) – Dealer supplied <i>A PHOTO IS REQUIRED AND MUST MATCH EXACTLY AS DESCRIBED IN THE PROCEDURE</i>





MDRT Handling Cautions – READ THOROUGHLY

Return the MDRT to Drawer #15 in your Mazda Tool Shed. Do not lose this tool as the dealer will be charged \$1,000 for loss or physical damage. Please fill out Dealer Recall Help on OneMazda if your tool is lost or damaged asking for a replacement.

DO NOT damage the tool OR expose to extreme sunlight, heat or water as all of these will permanently damage the tool at the dealers expense.

To avoid module being damaged during reprogramming.

- Do not disconnect MDRT from OBD-II connector.
- Do not start the engine.



12 VOLT Battery Charge Requirements – Connect MCA-8000

The battery must be in a charged condition. Connect the charger to the 12V battery. If not done, the ECU could be damaged.

Do not allow the battery voltage to drop below 12.3 Volts. If the battery discharges, the module can fail which will require-replacement.

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 reprogramming 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.

When you perform reprogramming with MDRT:

- Turn off all electric loads such as air-conditioning, audio system etc.
- Do NOT touch the MDRT while Green or Blue light is blinking with frequent beep sound.
- During reprogramming operation, center display and instrument cluster may blink, which is NOT abnormal.

Reprogram the SAS by MDRT

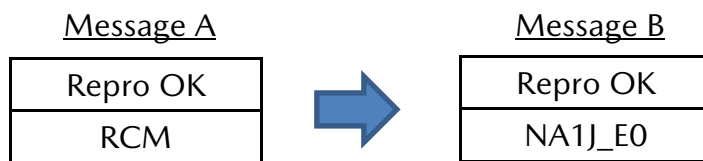
Note: The reprogramming needs **5 minutes or more**. (Pulsing beeps will sound during the reprogramming and this is NORMAL)

Note: If a warning lamp is illuminated or flashes in the instrument cluster, repair it according to the Workshop Manual before reprogramming.

1. Connect the MCA-8000 battery charger
2. Switch the ignition to off.
3. Connect the MDRT to OBDII connector.
4. You will hear a beeping noise, this is expected and is NORMAL

5. Wait until the green/blue and the red LED turn on with "Ready" and "IG OFF" on the LCD display, then go to next step.
6. Switch the ignition to IG-On (push start twice - **Engine is OFF**). **Do not depress the clutch pedal, or brake pedal.**
7. Monitor the MDRT display.

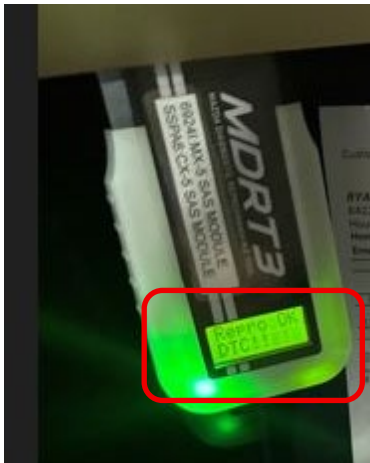
Verify the reprogramming result on the display of the MDRT. The LCD tool display will show Message A then Message B. The Message B may vary from the example below or may not appear but "**REPRO OK**" is always required.



Note: The display indicates the software type (first 4 digits of the target file) & suffix (last digit of the target file). For the target file, refer the following calibration file information table.

IMPORTANT:

If display shows message as "REPRO_OK DTC!!!", proceed with following procedure steps 7 (a-h). By performing this procedure, MDRT can erase DTC automatically. If display does not show message "REPRO_OK DTC!!!", move to step 8.



THIS IS A NO GOOD SITUATION PLEASE PERFORM STEPS a-h. If this does not resolve, please contact tech hotline

- a. Turn IG off
- b. Disconnect the MDRT
- c. Turn IG on (with Engine RUNNING)
- d. Idle the vehicle for **5 seconds**.
- e. Turn IG off (Engine is OFF).
- f. Connect the MDRT.
- g. Press Start button twice - IG on (Engine is OFF).
- h. Wait for 5 minutes then go to step 8.

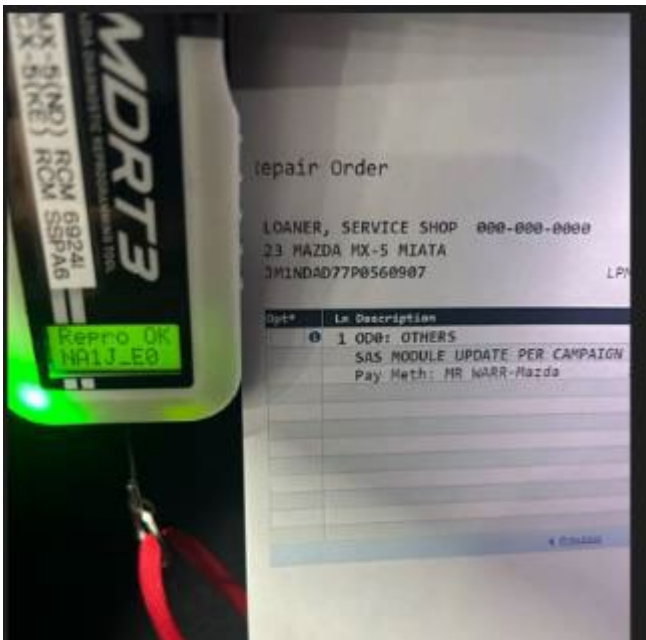
Calibration file information

Model	Module	Target ECU (Hardware #)	Target Software file #	Reprogramming Time (min.)
MX-5 (ND)	RCM (=SAS)	NA1J-57K3X	NA1J-57K30-D or E (or later)	Approx. 5min

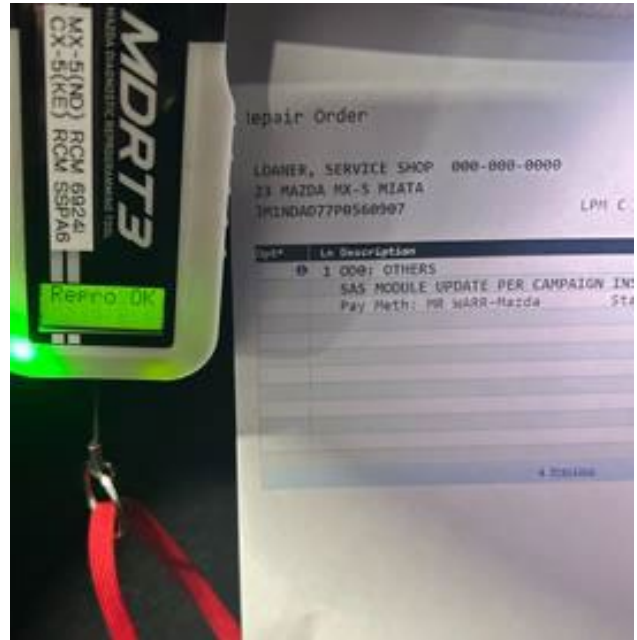
8. **PHOTO REQUIREMENT.** Take a photo of the MDRT tool display with the Repair Order print out. FOR PAPERLESS DEALERS: **Take a photo of the MDRT tool and a scrap piece of paper with the last 8 of the VIN and Date.** Send this photo to your warranty administrator.



Repair Completion Note: The VIN on the RO must be clearly recognizable. The LCD must say "REPRO OK" as in the below photo. The characters "NA1J_E0" may be different or not appear, but REPRO OK must be in the LCD screen.



EXAMPLE – GOOD PHOTO#1



EXAMPLE – GOOD PHOTO#2 – "REPRO OK"

9. Switch ignition to OFF and remove the MDRT and the battery charger.
10. Return the MDRT to Drawer #15 in your Mazda Tool Shed. Do not lose this tool as the dealer will be charged \$1,000 for loss or physical damage.
11. Move to Section C. CAMPIAGN LABEL INSTALLATION

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

SECTION C: CAMPAIGN LABEL INSTALLATION

- a. Fill out a Black "Campaign Label" (9999-95-055A-06) with Campaign # "6924I", your dealer code, and the repair date.



CAMPAIGN LABEL

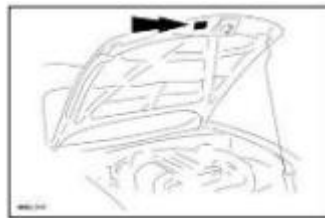
CAMPAIGN NO: _____

DEALER CODE: _____

DATE: //

P/N 9999-95-055A-06

- b. 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