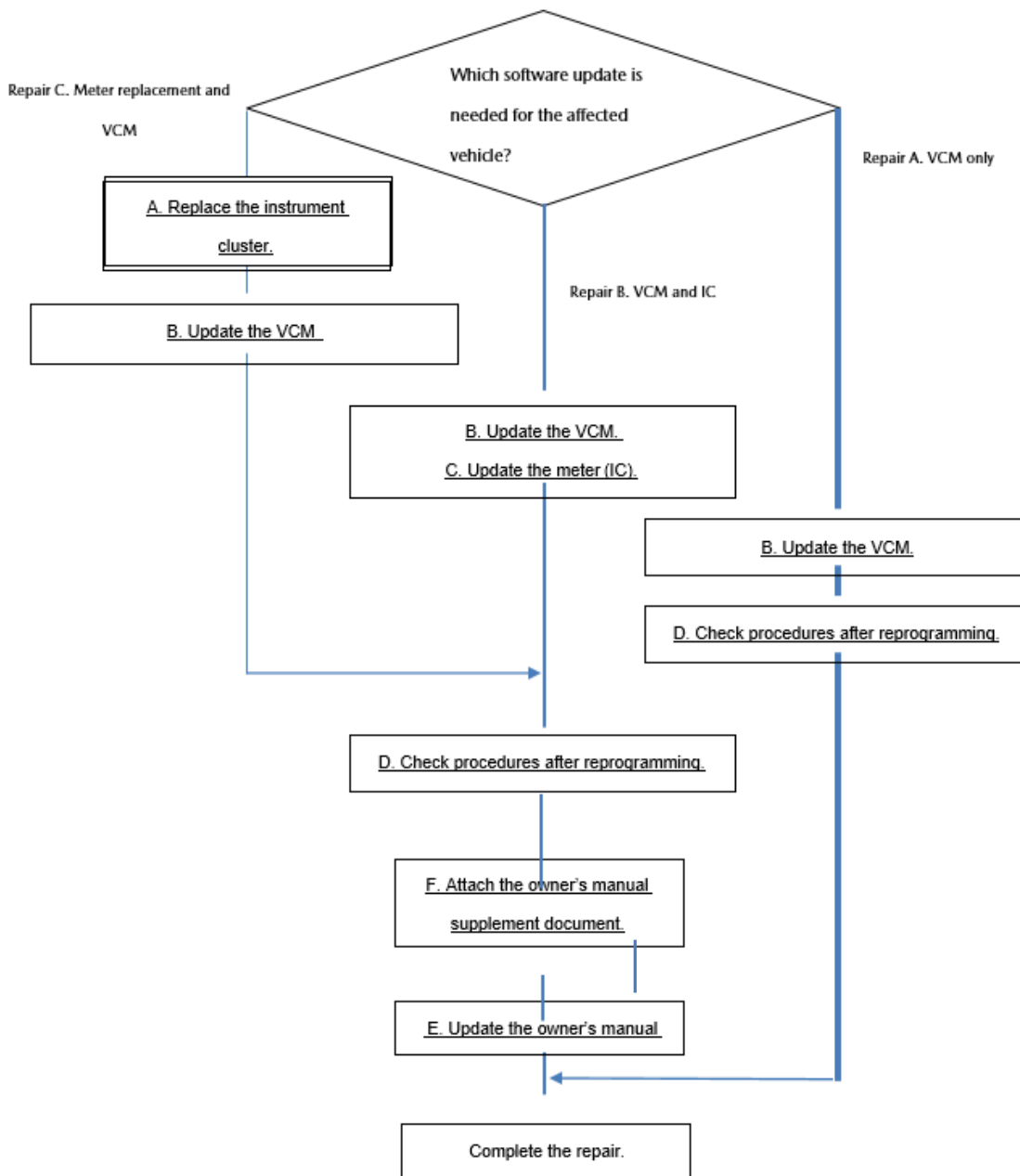


Updated June 7, 2024 – Use M-MDS to repair the vehicle and changed labor operations.

2019 Mazda3 - Sudden Deceleration from False Brake Activation

Section A. Outline of Repair - Flowchart - READ SERVICE CAUTION FOR PROGRAMMING!



VEHICLE INSPECTION PROCEDURE

Verify that the vehicle is within the following ranges:

2019-2020 Model Year Mazda3 vehicles, equipped with smart brake support (SBS)

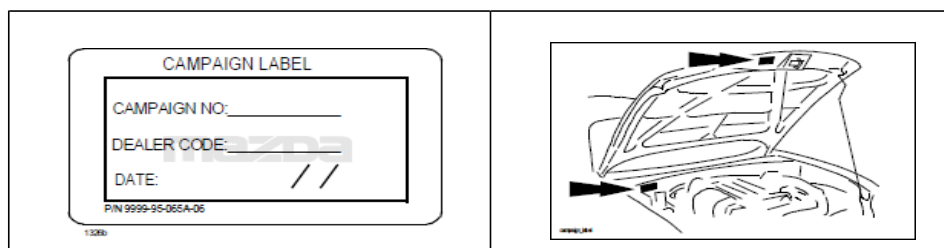
Model	Subject VIN range	Subject production date range
Mazda3 built at MC	JM1 BP**** K1 100042 – 147655 JM1 BP**** L1 147656 – 154264	From September 25, 2018 through October 19, 2019
Mazda3 built at MMVO	3MZ BP**** KM 100048 – 115055 3MZ BP**** LM 115095 – 124858	From January 15, 2019 through October 23, 2019

The asterisk symbol "*" can be any letter or number.

- If the vehicle is within the above ranges, proceed to **Repair Validation and Repair Procedure A, B or C below depending on the vehicle.**
- If the vehicle is not within the above ranges, return vehicle to the customer or inventory.

Perform a Warranty Vehicle Inquiry using your eMDCS System and inspect vehicle for Campaign Label Recall 4219L attached to the vehicle's hood or bulkhead. Refer to eMDCS System - Warranty Vehicle Inquiry Results table below.

NOTE: Be sure to verify Recall number as the vehicle may have multiple Recall labels.



eMDCS System - Warranty Vehicle Inquiry Results:

If eMDCS displays:	Campaign Label is:	Action to perform:
RECALL 4219L OPEN	Present	Email Dealer Recall Help or Contact Warranty Hotline at (877) 727-6626 option 3 to update vehicle history.
	Not present	Proceed to "REPAIR VALIDATION AND PROCEDURES".
RECALL 4219L CLOSED	Present	Return vehicle to inventory or customer.
	Not present	Proceed to "3. CAMPAIGN LABEL INSTALLATION".
RECALL 4219L IS NOT PRESENT	Does not apply	Recall does not apply to this vehicle. Return vehicle to inventory or customer.


Repair Calculator Look Up Tool and Match VIN to Repair List - **Once you have determined which repair is appropriate follow the next steps to see how to repair the vehicle.**

CHECK VIN FOR REPAIR A, B or C – USE THE REPAIR CALCULATOR



The vehicles in 4219L have one of 3 different repairs depending on production date and the control units/modules which need to be reprogrammed. Use the Repair Calculator to Check the VIN. To be repaired and list to verify which concern(s) the vehicle is affected.

All Mazda3 vehicles subject to recall 4219L are also involved in the special service program (SSPC5). The VCM and instrument cluster (IC) reprogramming under this recall 4219L is completed by repairing SSPC5/recall 4621B. Because the reprogramming happens automatically during the reprogramming of SSPC5, the warranty information has been changed.



Recall 4219L VIN Look Up Tool Job Aid - Repair Calculator

Please Read the ENTIRE Instructions:

1. Hit the Button "CLEAR VIN" to make sure the VIN area is blank.
2. Enter the VIN# (Vehicle Identification Number in full), in Cell B3 next to the Red Arrow.
Ensure the VIN does not contain a SPACE at the beginning or end of the VIN number
3. Hit "Enter" on your keyboard
4. The answer of which REPAIR FOR 4219L is shown in GREEN. As Instructed, this could be Repair A, Repair B or Repair C.
5. To enter another VIN, Click the "Clear VIN" Button and Enter another 17 digit VIN
**Note: You must copy all 17 characters of the VIN. It is better to copy and paste the VIN from the Warranty Inquiry Screen on eMDCS. This tool will return an error code if the VIN is not 17 digits, or does not match the affected vehicle list.*

CLEAR VIN

REPAIR "A", REPAIR "B" OR REPAIR "C" RECALL 4219L. PLEASE REPAIR AND CLAIM THE CORRECT REPAIR

ENTER VIN

VEHICLE IDENTIFICATION NUMBER (VIN)

#N/A

Repair Validation – Failure to follow Service Caution may lead to module damage!	Repair Procedure - Follow Steps
<p>Repair A – <u>Use Repair Calculator tool to match VIN to Repair</u> Or Match VIN to Repair A VIN list</p> <p>Vehicle requires VCM software update ONLY.</p> <p>Repair A:</p> <p>MMVO Production LM118755 – 124858 Production Dates: 8/5/19 through 10/23/19</p> <p>MC Production L1150242 – 154264 Production Dates: 7/30/19 through 10/19/19</p>	<p>Proceed to Service Caution for Reprogramming</p> <p>***Click each link to go to the section***</p> <p>B. Reprogram the VCM.</p> <p>D. Check procedures after reprogramming.</p>
<p>Repair B – <u>Use Repair Calculator tool to match VIN to Repair</u> Or Match VIN to Repair B VIN list</p> <p>Vehicle requires Instrument Cluster software update, VCM software update, and CMU electronic owner’s manual update.</p> <p>Repair B:</p> <p>MMVO Production KM100048 – 114618 Production Dates: 1/15/19 through 7/01/19</p> <p>VIN Ending in LM115095 – 118752 Production Dates: 7/01/19 through 7/25/19</p> <p>MC Production VIN Ending in K1101936 – 147544 Dates: 11/5/18 through 6/28/19</p> <p>VIN End in L1147656 – 150225 Dates: 6/29/19 through 7/30/19</p>	<p>Proceed to Service Caution for Reprogramming</p> <p>***Click each link to go to the section***</p> <p>B. Reprogram the VCM.</p> <p>C. Reprogram the meter (IC).</p> <p>D. Check procedures after reprogramming.</p> <p>E. Update the CMU electronic Owner’s manual.</p> <p>F. Attach the owner’s manual supplement.</p>

Repair C – [Use Repair Calculator tool to match VIN to Repair](#)
Or Match VIN to Repair C VIN list

Vehicle requires Instrument Cluster replacement, VCM software update, and CMU electronic owner's manual update.

Repair C: MC Production K1100042 – 102178

Dates: 9/25/18 – 11/5/18

****DO NOT reprogram the (IC) meter****

Proceed to Service Caution for Reprogramming

*****Click each link to go to the section*****

[A. Replace the IC.](#)

[B. Reprogram the VCM.](#)

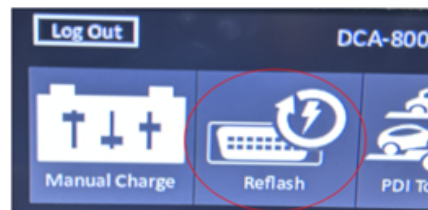
[D. Check _____ procedures after reprogramming.](#)

[E. Update the CMU electronic owner's manual.](#)

[F. Attach the owner's manual supplement.](#)

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 "Refresh" setting in the charger, which will keep the voltage stable. The setting voltage must be between 12 -13V.



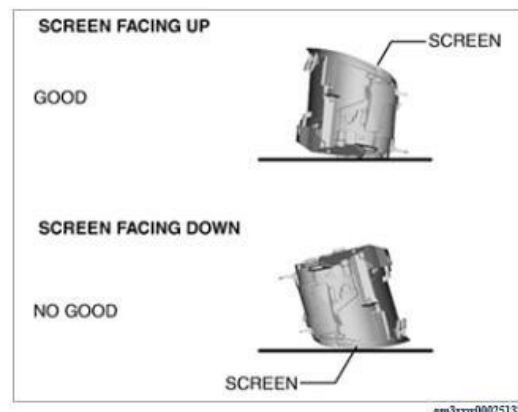
FOR CARS WITH “REPAIR C” ONLY

Section A. Replace the instrument cluster (see [INSTRUMENT CLUSTER REMOVAL/INSTALLATION](#))

- When replacing the instrument cluster, perform the configuration to assure that the system operates correctly. (See [CONFIGURATION](#).)

Caution

- If the instrument cluster is left for a long time with its screen facing down, grease applied to the needles may spill and the needles may not operate smoothly. When storing the instrument cluster, store it with its screen facing upward.



1. Perform the following procedure.

(a) Perform manual configuration.

- 1) Connect MDARS to the DLC-2.
- 2) Switch the ignition ON (engine off or on).
- 3) Perform vehicle identification.
- 4) Select [Configuration] using MDARS.
- 5) Select [IC].
- 6) Perform manual configuration following the instructions on the screen.

(b) Switch the ignition OFF.

(c) Switch the ignition ON (engine off or on) to complete the instrument cluster automatic configuration.

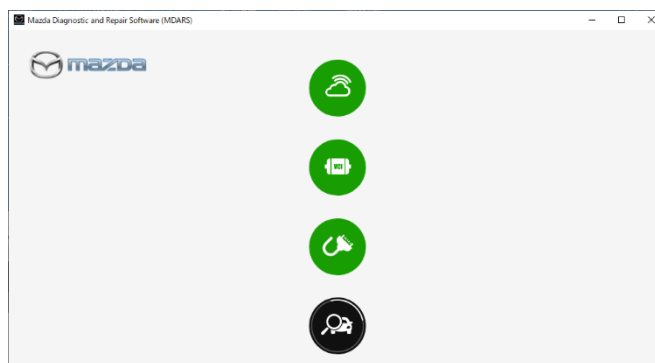
Section B. Reprogram the VCM (Vehicle control module)

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 "Refresh" setting in the charger, which will keep the voltage stable. The setting voltage must be between 12 -13V.

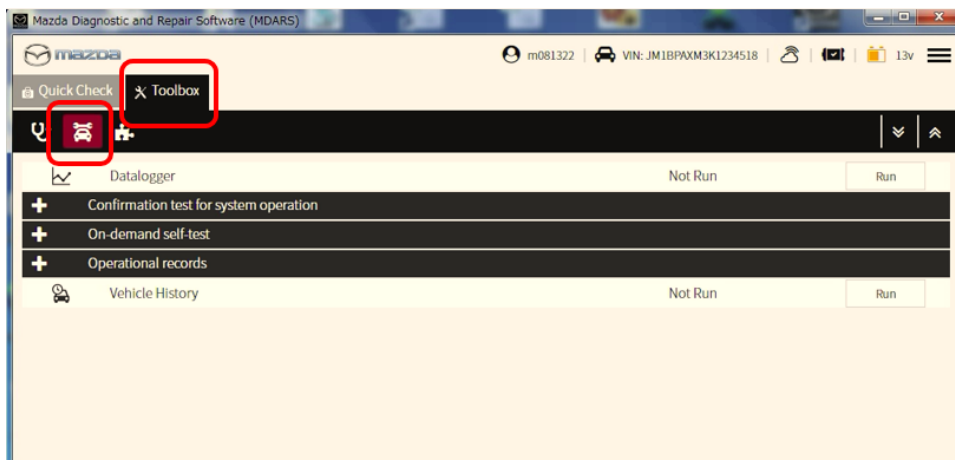


1. Then begin the vehicle identification automatically.



2. Reprogram the VCM (Vehicle control module) Select "Toolbox" tab and "Wrench mark" icon.

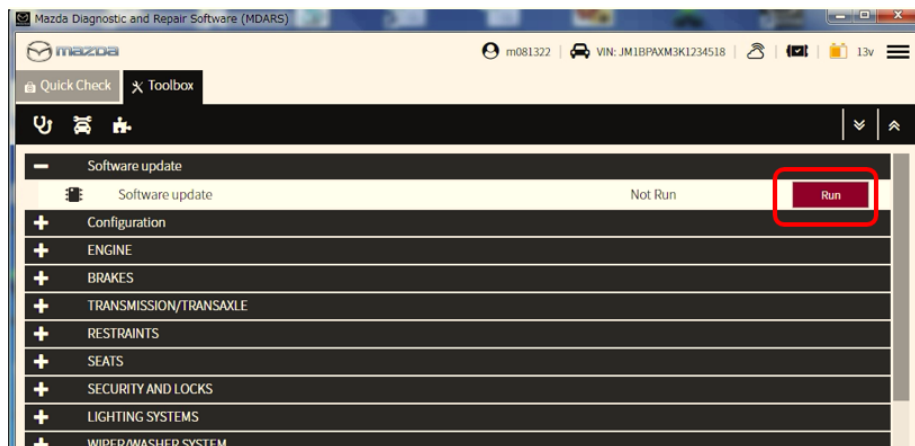
NOTE: Follow the attached "Service Caution for reprogramming".



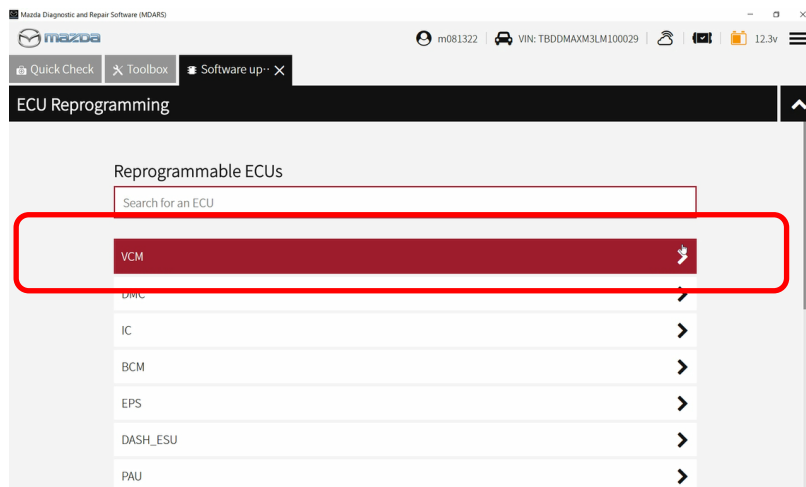
3. Select "Software update"



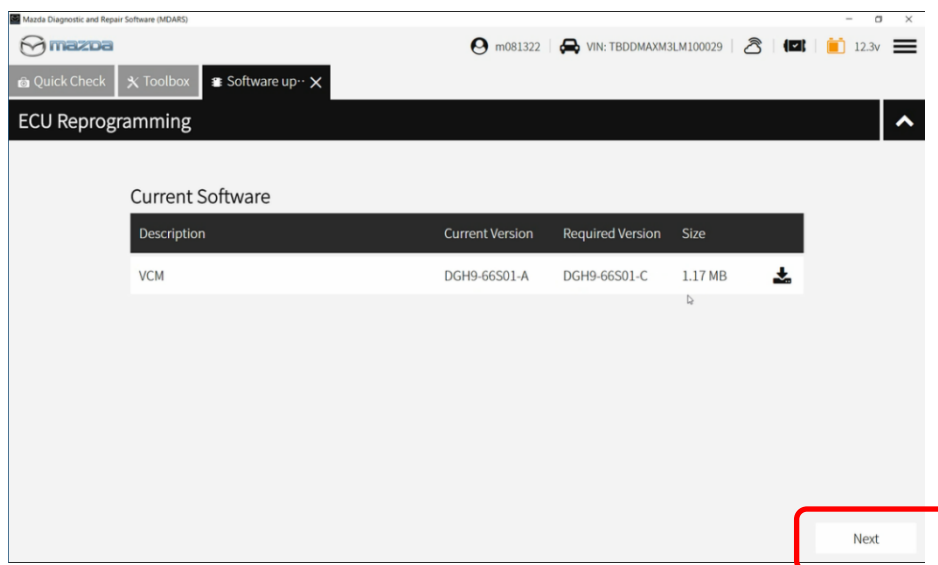
4. Select "Run" button.



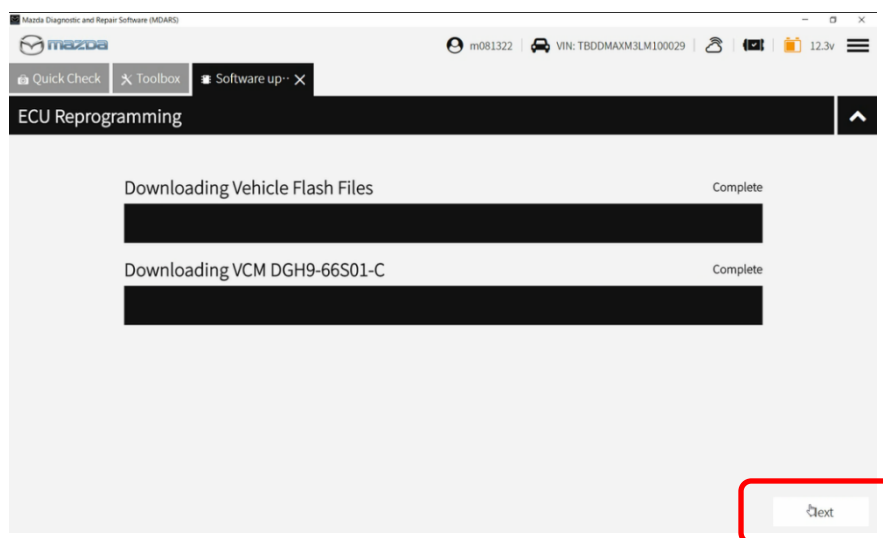
5. Select "VCM".



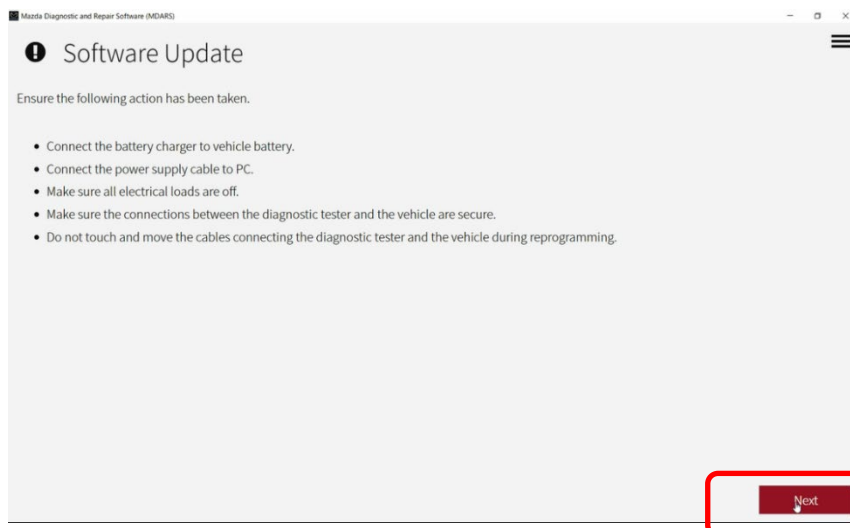
8. Select "Next" button".



9. Select "Next" button".



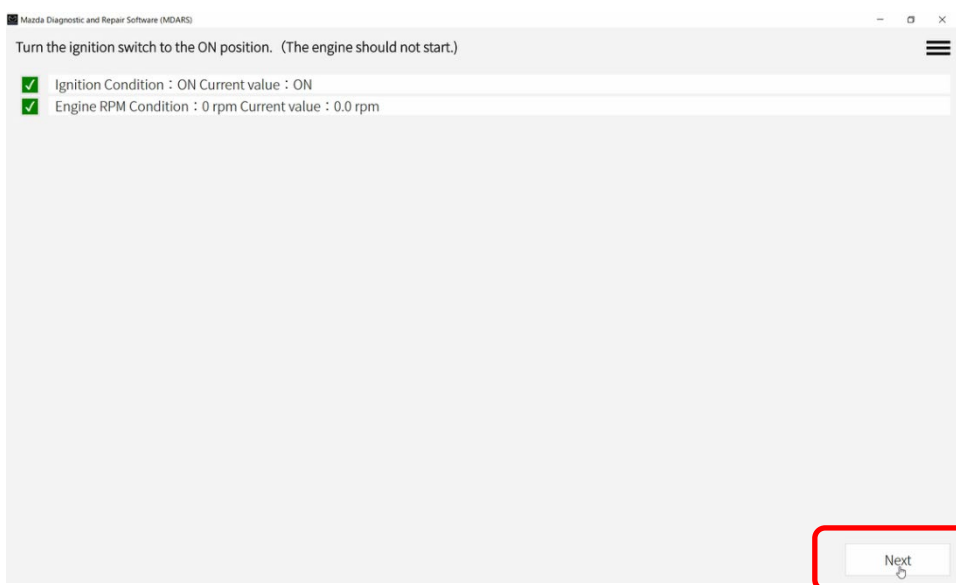
10. Select "Next" button".



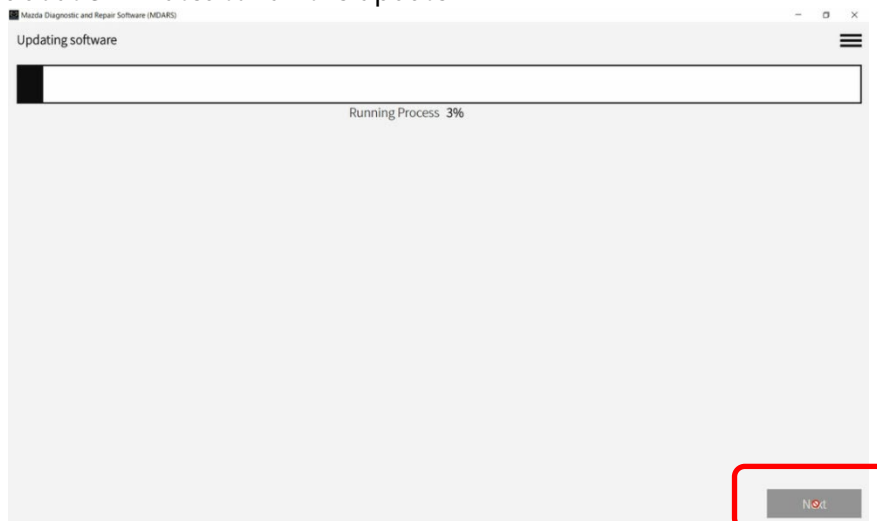
11. Select "Next" button".



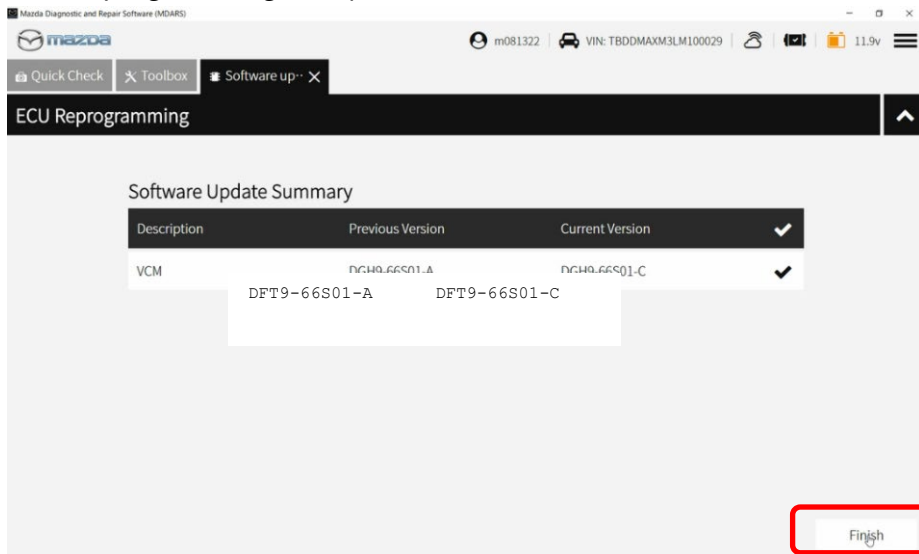
12. Select "Next" button".



It takes about 3 minutes to run the update.



13. After VCM reprogramming, verify the calibration file name with the chart below in the screen of the (VCM)



*******CHECK FILENAMES – ALL FILES SHOULD BE THE SAME OR LATER VERSION*******

Calibration files information

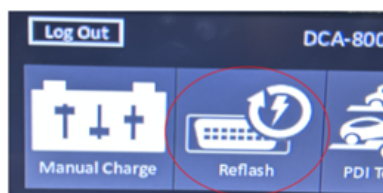
NOTE: If the calibration file is with the suffix in the table or later, the meter already has the modified calibration.

Country	Model	VCM filename after reprogramming	Specification
U.S.A/Canada	Mazda3 (BP)	BCKA-66S01-P	4SD
		BEMD-66S01-N	5HB
		BDTS-66S01-L	4SD (Mexico built)

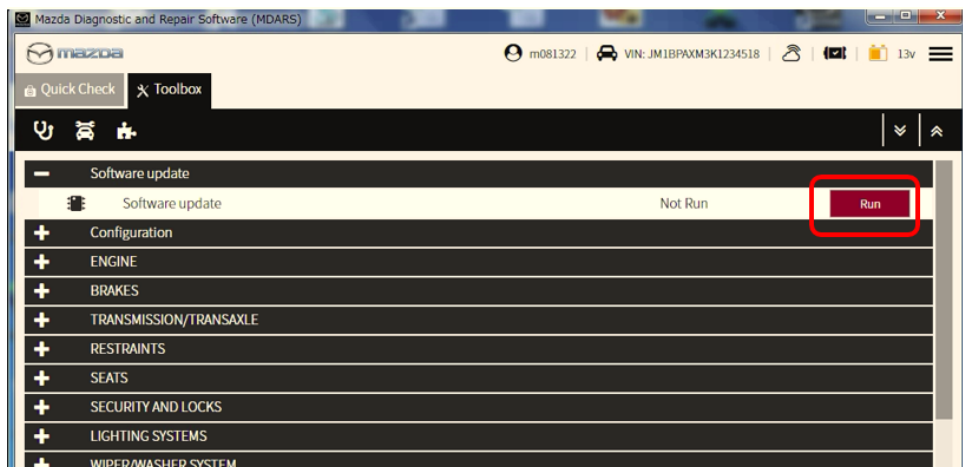
Section C. Reprogram the meter (IC)

Service caution during reprogramming for ECU(s)

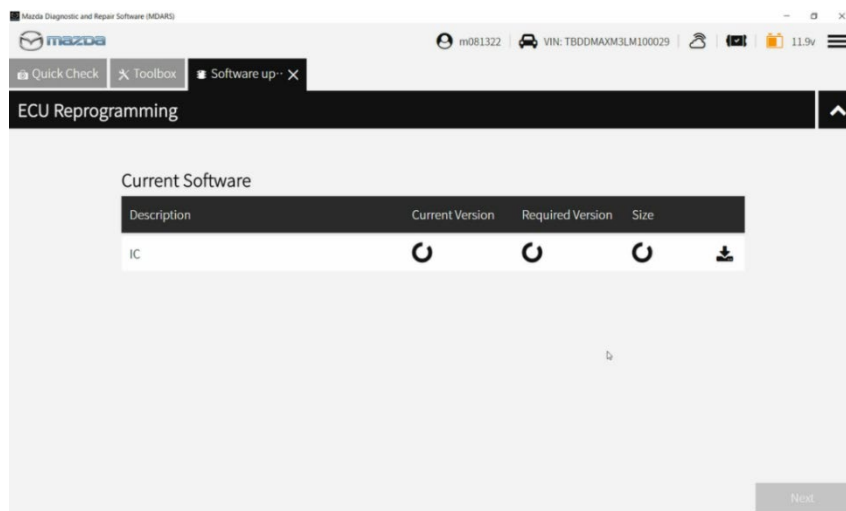
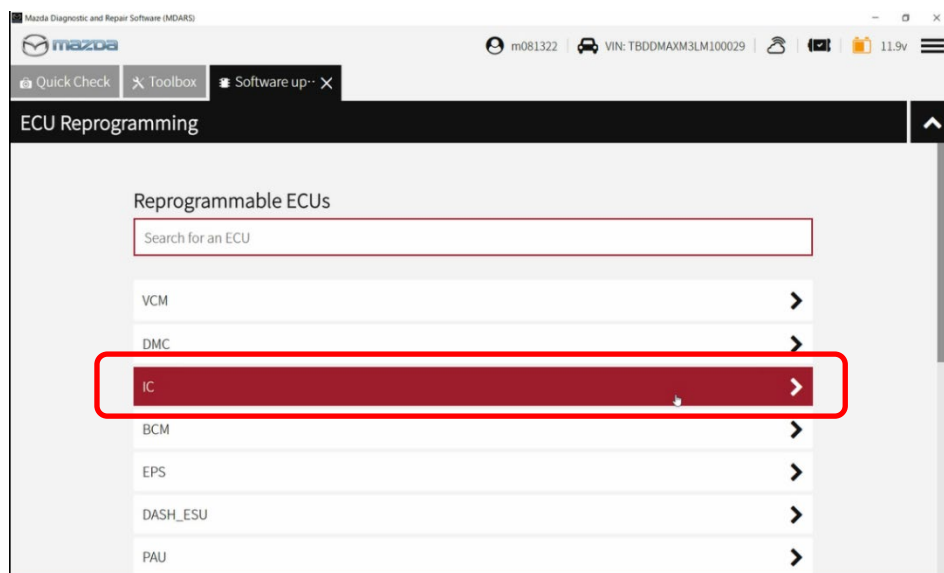
During reprogramming, connect battery charger to the vehicle to stabilize voltage fluctuation. If missing, it may cause damage to ECUs due to decreasing voltage. 7th generation vehicle will control to turn on headlight forcibly during reprogramming due to change CAN communication. Please use the "Reflash"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



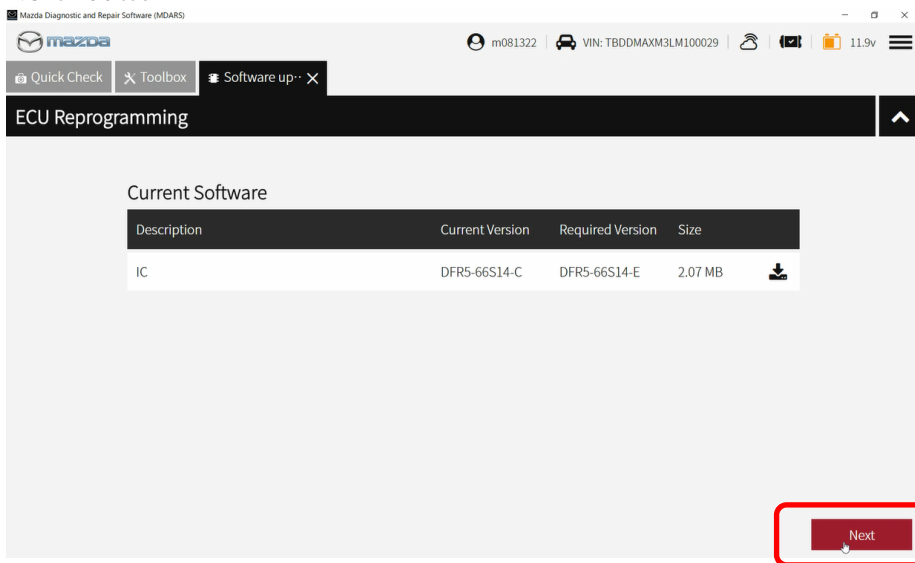
1. Reprogram the meter (IC) using MDARS. Select "Run" button.



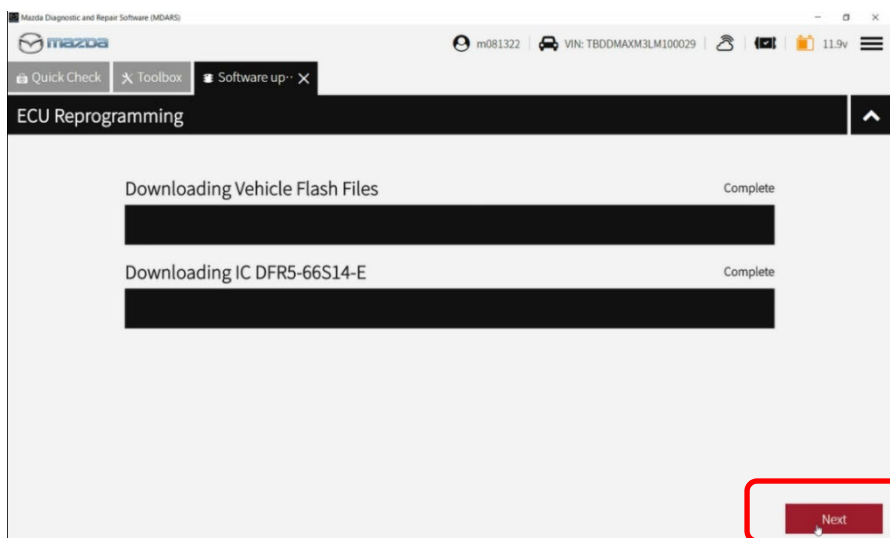
2. Select "IC".



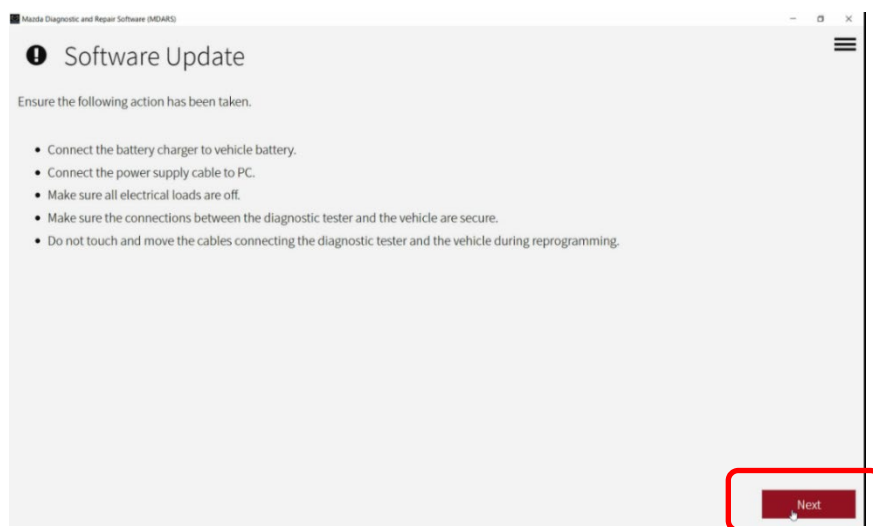
3. Select "Next" button".



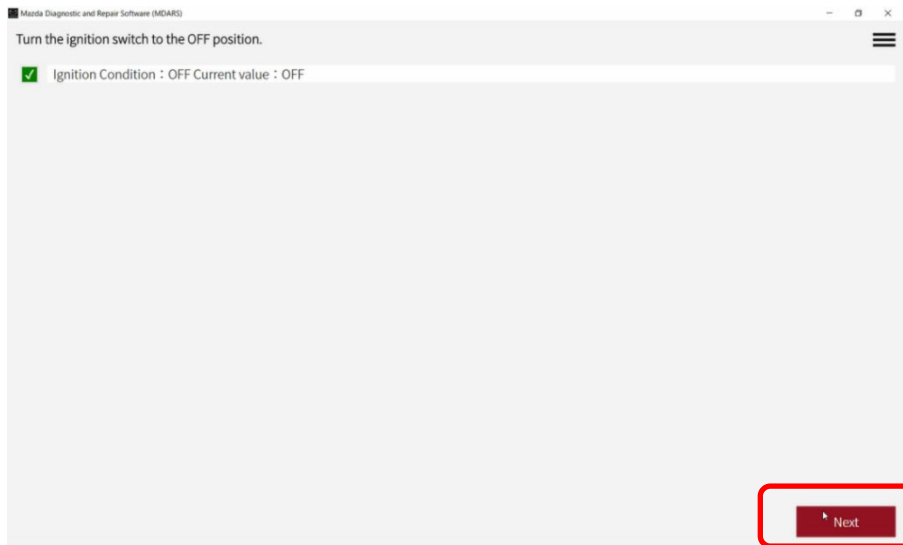
4. Select "Next" button".



5. Select "Next" button"



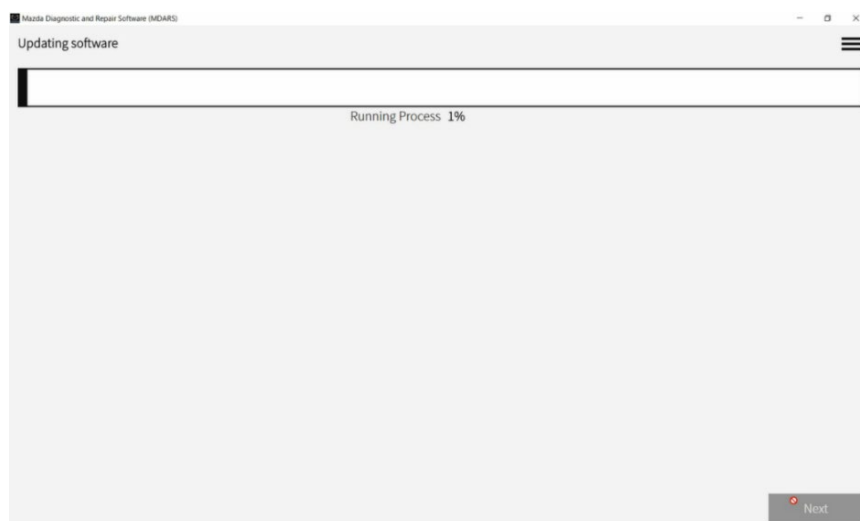
6. Select "Next" button".



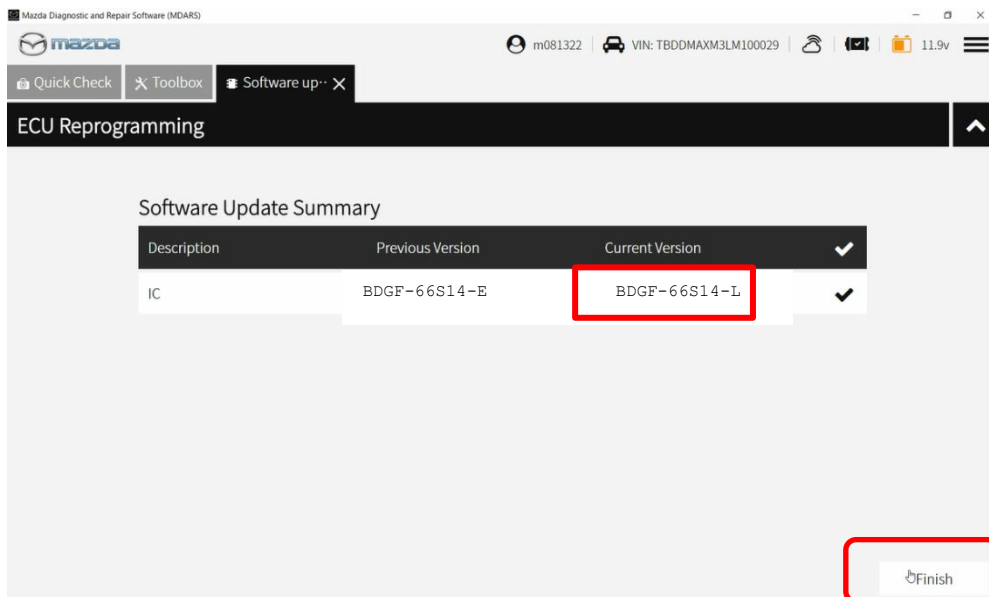
7. Select "Next" button".



It takes about 4 minutes to run the process.



8. After IC reprogramming, verify the calibration file name at current version with the chart below in the screen of the (IC) FILENAME.



Calibration files information

NOTE: If the calibration file is with the suffix in the table or later, the IC is already updated to the latest calibration.

Country	Model	Meter (IC) filename after reprogramming
U.S.A/Canada	Mazda3 (BP)	BDGF-66S14-L

Section D. Check procedures after reprogramming

1. Check for DTC and confirm there is no stored DTC.

DTC P2610:00 may be stored. If so, please start the engine and clear the DTC.

NOTE: DTC U2120:00, U2030:51 or/and U2500:82 (Related DTCs of Forward sensing camera) may be stored and i-ACTIVSENSE warning light (amber) may turn on after driving. These DTCs may not be stored just after reprogramming. It may be stored after driving. To avoid stored DTC, you need to put the FSC into sleep mode.

2. Put the Forward Sensing Camera (FSC) into sleep mode as follows:

- i) Disconnect MDRT or MDARS if replacing the IC for repair C
- ii) Turn the ignition off and get out of the car
- iii) Close and lock all doors
- iv) Allow the vehicle to sit in this condition for 10 minutes or more

3. Verify the repair by starting the engine and making sure there is no MIL illumination or abnormal warning lights present.

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

Section E. Update the owner's manual (OM) using USB – (see [ELECTRONIC OWNERS MANUAL UPDATE PROCEDURE](#))

Section F. Provide the Owner's Manual Supplement to the customer

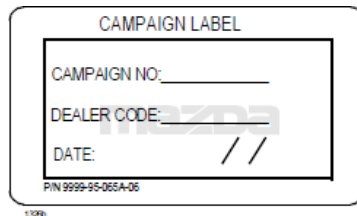
NOTE: If you are an all electronic dealer please email the supplement to the customer and scan in the Customer Acknowledgement Form.

1. Place or email the supplement in the owner's manual inside the storage pouch. Please print the supplement from MGSS under campaign 4219L.
2. Give the copy of the Customer Acknowledgement Form along with the repair order to the service consultant so the customer can sign and acknowledge they have received the paper owner's manual update and keep the copy for the dealer records.

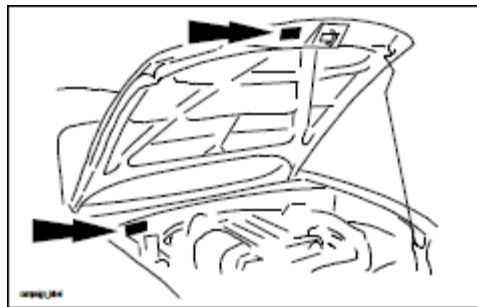
Proceed to Section G. - Campaign Label Installation

Section G. Campaign Label Installation

1. Fill out a blue "Campaign Label" (9999-95-065A-06) with Campaign No: "4219L", your dealer code, today's date.



2. Affix it to the hood or bulkhead as shown:



3. Return the vehicle to the customer.

END OF REPAIR PROCEDURE