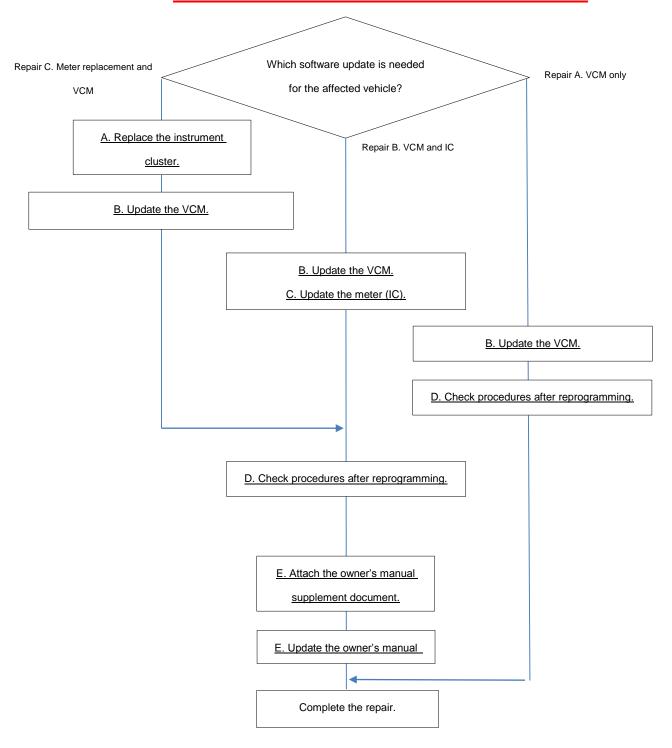
2019 Mazda3 - Sudden Deceleration from False Brake Activation - Safety Recall 4219L

1. Flowchart - READ SERVICE CAUTION FOR PROGRAMMING!



2. VEHICLE INSPECTION PROCEDURE

Verify that the vehicle is within the following ranges: 2019-2020 Mazda3 vehicles, equipped with smart brake support (SBS)

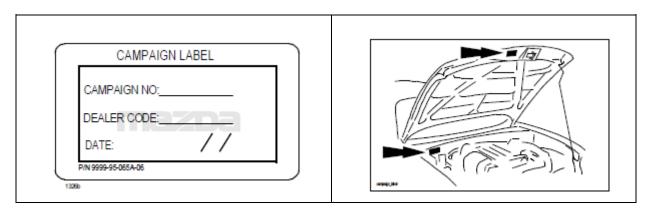
Model	Subject VIN range	Subject production date range
Mazda3 built at MC	JM1 BP**** K1 100042 - 147655 JM1 BP**** L1 147656 - 154264	From September 25, 2018 through October 19, 2019
Mazda3	3MZ BP**** KM 100048 - 115055	From January 15, 2019 through
built at MMVO	3MZ BP**** LM 115095 - 124858	October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

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

- If the vehicle is within the above ranges, proceed to <u>Repair Validation</u> 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:		on to perform:
RECALL 4219L OPEN	Present	Present Email Dealer Recall Help or	
			act Warranty Hotline at) 727-6626 option 3 to
			te vehicle history.
	Not present	Proc	eed to "REPAIR VALIDATION
			PROCEDURES".
RECALL 4219L CLOSED	Present		rn vehicle to inventory or
	Not present	.	omer. eed to "3. CAMPAIGN LABEL
	Not present		ALLATION".
RECALL 4219L IS NOT	Does not apply	Reca	ll does not apply to this
PRESENT			cle. Return vehicle to
		inve	ntory or customer.
Repair Validation			Repair Procedure - Follow
			Steps
Repair A - Match VIN to Re	epair A VIN list		Proceed to Service Caution for
			Reprogramming Pages 18 & 19
Vehicle requires VCM soft	ware update ONLY.		then
			'B. Reprogram the VCM.' Page 6
Repair A:	'D. Check procedures after		
MMVO Production			reprogramming.' Page 16
LM118755 - 124858			
Dates: 8/5/19 through 10/	23/19		
MC Production			
L1150242 - 154264			
Dates: 7/30/19 through 10			
Repair B - Match VIN to Repair B VIN list			Proceed to Service Caution for
Vehicle requires Instrume	Reprogramming Pages 18 & 19		
VCM software update, and (then		
update.			'B. Reprogram the VCM.' Page 6
			'C. Reprogram the meter (IC).'
Repair B:	Page 11		
MMVO Production	'D. Check procedures after		
KM100048 - 114618	reprogramming.' Page 16		
Dates: 12/15/19 through 6	'E. Update the CMU electronic		
LM115095 - 118752	owner's manual.' Page 16		
	<u> </u>		

REPAIR PROCEDURE Recall Campaign 4219L

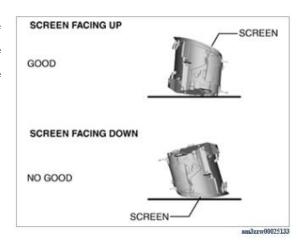
Dates: 6/28/19 through 7/26/19 'F. Attach the owner's manual MC Production supplement.' Page 16 K1101936 - 147544 Dates: 11/5/18 through 6/28/19 L1147656 - 150225 Dates: 6/29/19 through 7/30/19 Repair C - Match VIN to Repair C VIN list **No need to reprogram the meter (IC) ** Vehicle requires Instrument Cluster replacement, VCM Proceed to Service Caution for software update, and CMU electronic owner's manual Reprogramming Pages 18 & 19 update. then 'A. Replace the IC.' Page 4 Repair C: MC Production 'B. Reprogram the VCM.' Page 6 K1100042 - 102178 'D. Check procedures after Dates: 9/25/18 - 11/5/18 reprogramming.' Page 16 'E. Update the CMU electronic owner's manual.' Page 16 'F. Attach the owner's manual supplement.' Page 16

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.

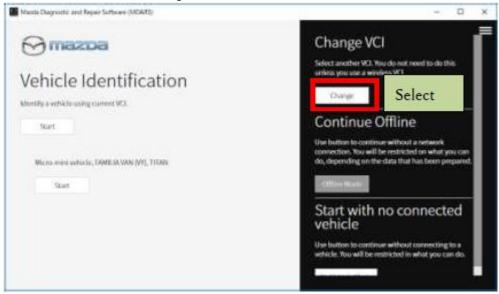


- 1. Perform the following procedure.
- (a) Perform manual configuration using the following procedure.
 - 1) Connect MDARS to the DLC-2.
 - 2) Switch the ignition ON (engine off or on).
 - 3) Perform vehicle identification.
 - 4) Select [Configuration] using MDARS.
 - 5) Select [IC].
 - 6) Perform manual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

B. Reprogram the VCM (Vehicle control module)

CAUTION: The Instrument Cluster (IC) could be damaged if Step 1 is not performed

1. Confirm VCI Settings before vehicle identification. Select 'Change VCI'



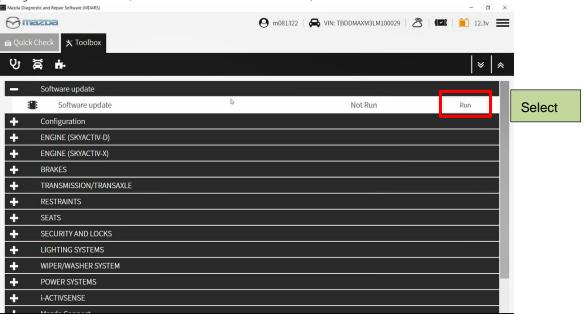
- 2. A Pop up screen will appear, click 'OK'
- 3. Ensure "D_PDU_API_Bosch_Mazda_VCM_II" is selected (highlighted green)
- 4. Under VCI Device, ensure the proper VCM serial number is shown

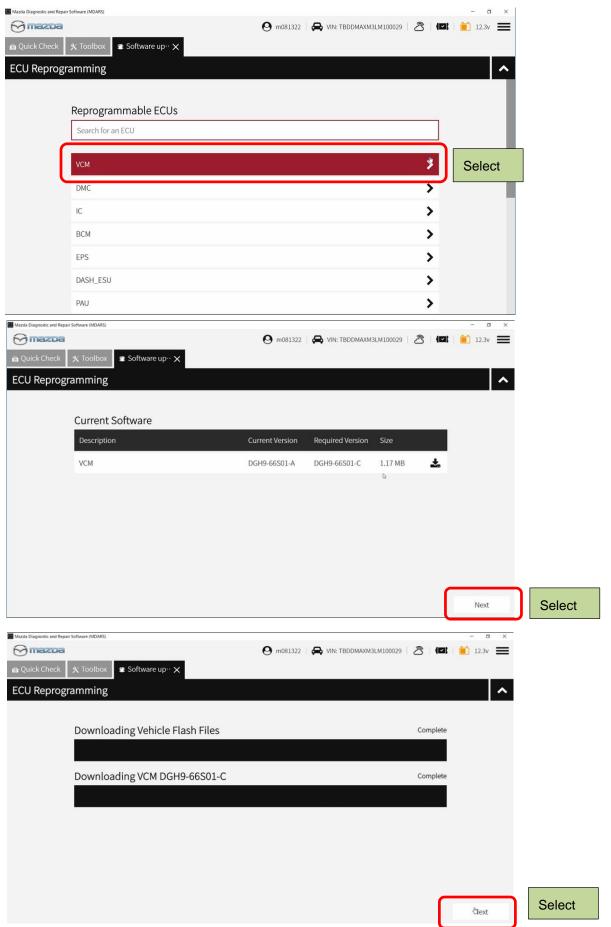


5. Vehicle identification begins automatically.

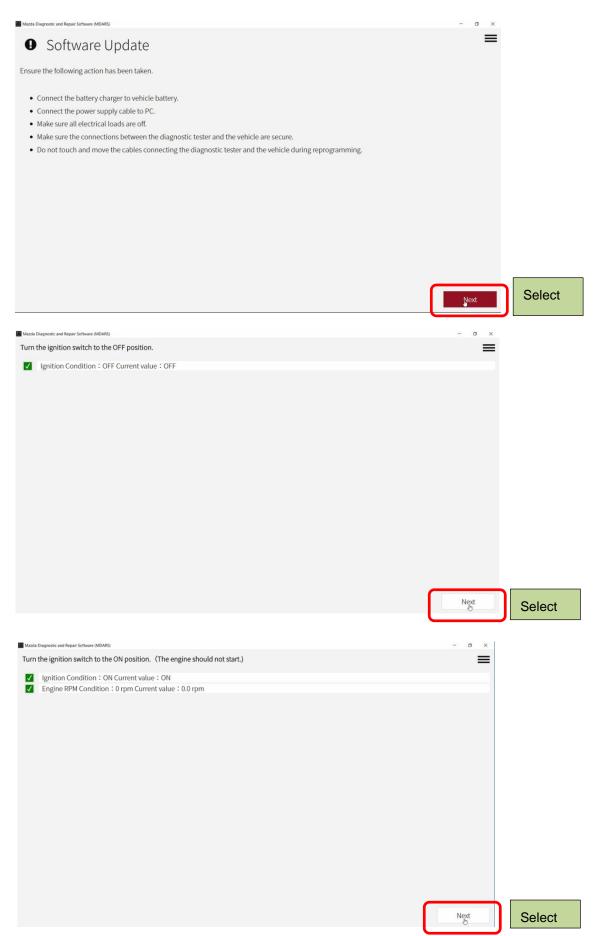


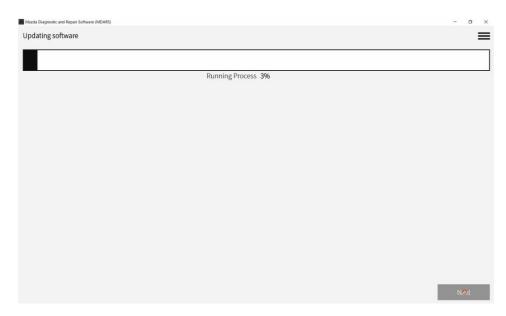
6. Reprogram the VCM (Vehicle control module)



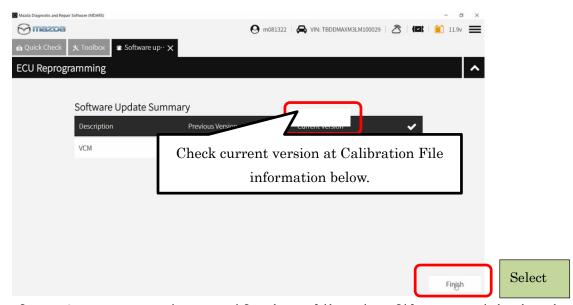


Page 8 of 19





This takes about 3 minutes to complete the Running Process.



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

Calibration files information

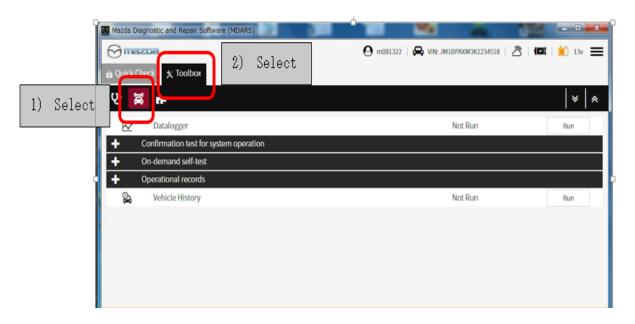
NOTE: If the calibration file is with the suffix in the table or later, the meter already has the modified calibration.

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

C. Reprogram the meter (IC)

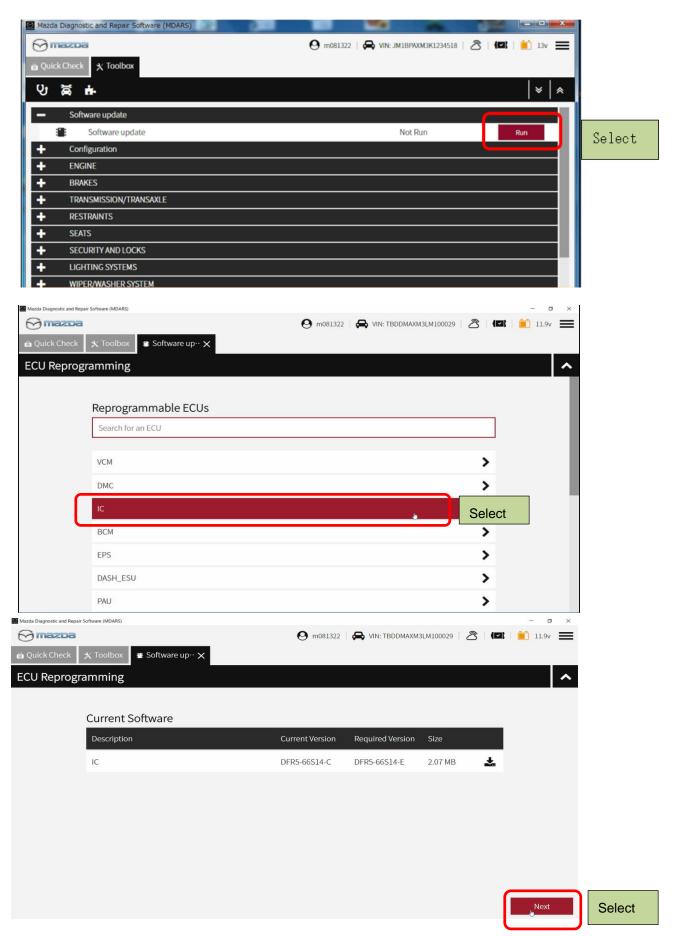
Reprogram the meter (IC) using MDARS.

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

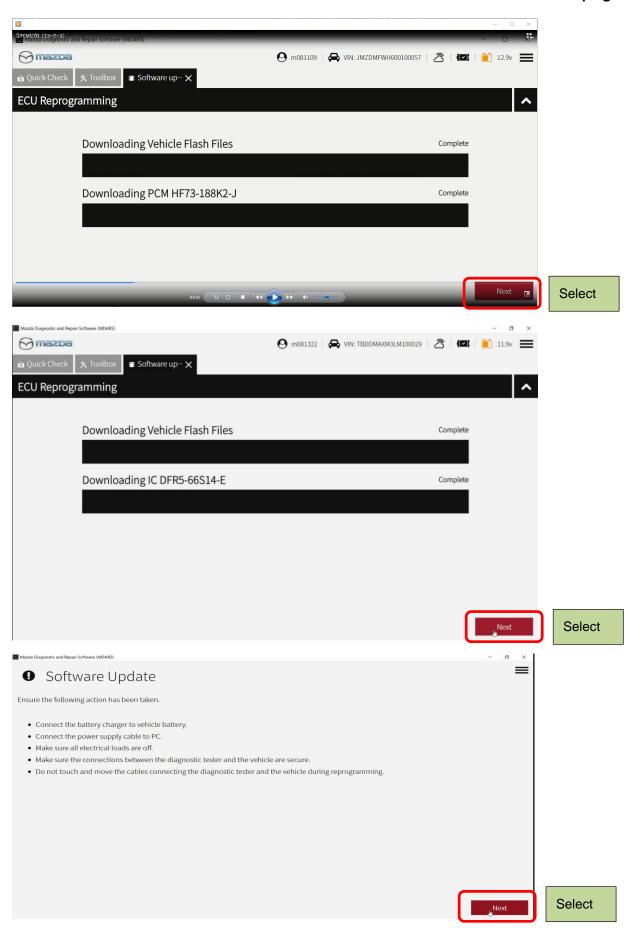


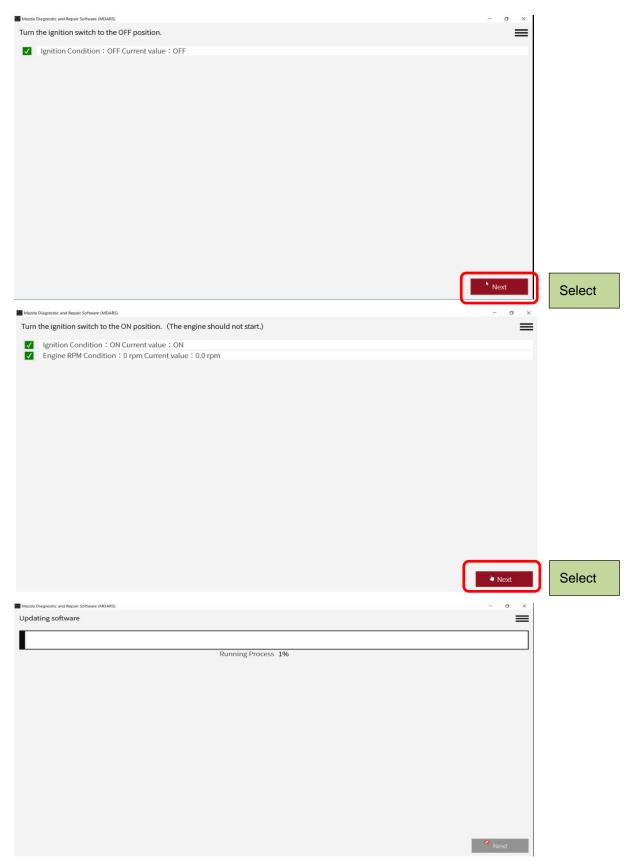


Page 11 of 19



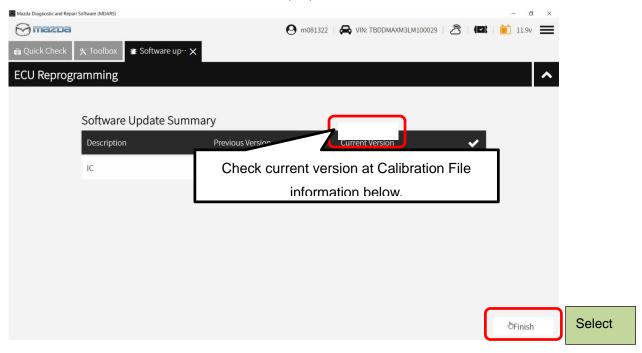
Page 12 of 19





It takes about 4 minutes to complete the running process. Select 'Next' when Running Process is finished.

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 already has the modified calibration.

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

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 reprograming. 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:
 - Disconnect MDARS
 - Turn the ignition off and get out of the car
 - Close and lock all doors
 - 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.

E. Update the owner's manual (OM) using USB - (see <u>ELECTRONIC OWNERS MANUAL</u> UPDATE PROCEDURE)

F. Attach the Owner's Manual Supplement

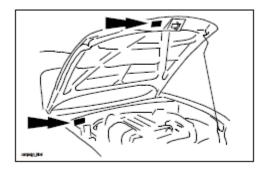
- 1. Go to MGSS and open the updated owner's manual supplement titled: "4219L - Owners Manual Supplement.pdf" and "4219L - Customer Acknowledgement Form.pdf".
- 2. Print both documents at 100% size. You can cut the owner's manual supplement paper to match the owner's manual page size for a cleaner look.
- 3. Place the supplement in the owner's manual inside the storage pouch.
- 4. 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.
- 5. Proceed to step 3, Campaign Label Installation

3. 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 customer.

Service Caution for Reprogramming

NOTE: Poor connection between the vehicle and MDARS and/or low voltage may result in abnormal termination and/or data corruption.

- **a.** Make sure that the following connections are firmly connected, and then do NOT touch the VCM and DLC cable to prevent from causing noise and poor connection.
 - Between the vehicle-side connector and the DLC cable
 - Between the PC-side connector and USB port of PC
- b. Connect AC adapter to the PC in order to minimize any voltage fluctuation during reprogramming
 Do NOT use vehicle battery outlet as power source for the PC.
- C. During reprogramming, connect <u>GR8 battery charger</u>, <u>Manual Mode set to 14.5 volts and no more than 10-</u> <u>15A charging current</u> to the vehicle to minimize any voltage fluctuation.



Before reprogramming, pay attention to the vehicle condition and PC environment.

- a. Turn off all the electrical loads, especially pay attention to A/C (blower), audio, rear defogger and headlights.
- b. Perform self-test and verify no DTC is stored. If any DTC is stored, fix the concern and delete the DTC.
- C. Disconnect all non-genuine aftermarket accessories.
- d. Terminate all programs other than MDARS on the PC. This may extend reprogramming, Page 18 of 19

PC may freeze or it may cause other problems.

- e. Perform reprogramming under proper Internet environment. Use Ethernet cable if at all possible. If using a wireless network, make sure the signal connection is strong and fast.
- f. Be sure there is sufficient free space on the PC's hard disc. Insufficient free space (less than 1 GB) may result in PC freeze during reprogramming.