TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL 26TA22

Certain 2026 Model Year RAV4 PHEV

Motor Generator ECU

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly, technicians performing this recall repair are required to complete the following course:

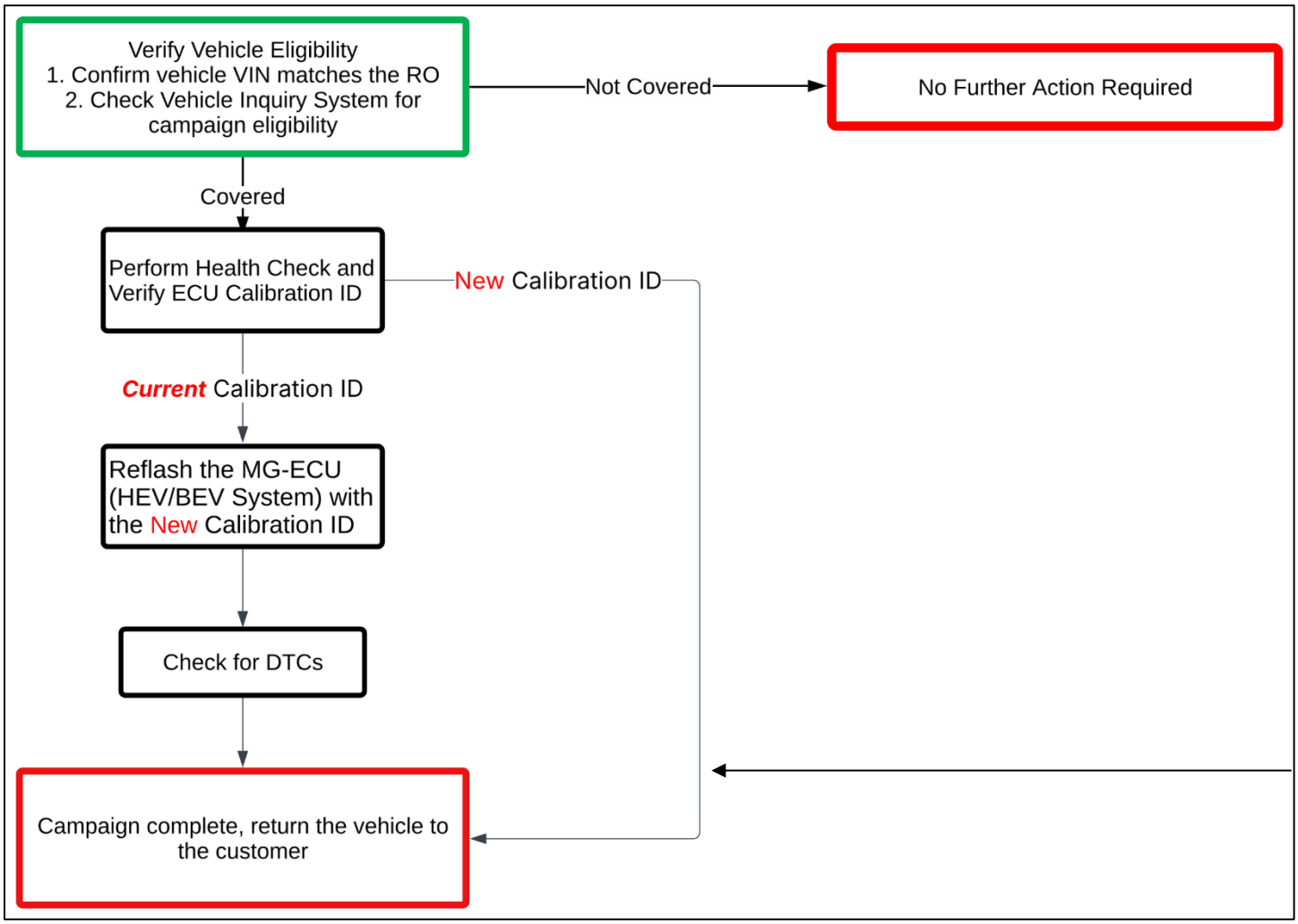
• TIC209A – Electrified Powertrain Vehicle

It is the dealership's responsibility to select technicians with the above course completed to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

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I.OPERATION FLOW CHART

The flow chart is for reference only. *DO NOT* use it in place of the full technical instructions. Follow ALL steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



II.IDENTIFICATION OF AFFECTED VEHICLES

1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

a)Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.

b)Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

HINT:

TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were previously completed, even by another dealer.

III.PREPARATION

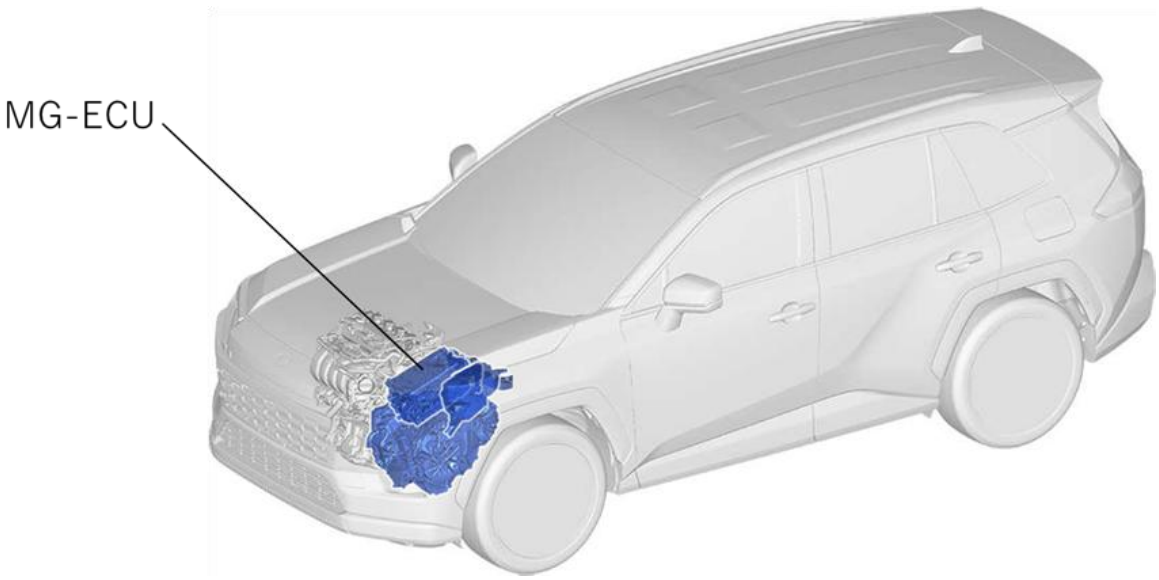
A. TOOLS & EQUIPMENT

- (TOYOTA)T-SB-0107-20 Rev. 2
- DCA-8000 Battery Diagnostic Station
- GTS+

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IV.BACKGROUND

A fault can occur in an ECU for the plug-in hybrid system in the subject vehicles and can cause the system to shut down while driving. This can lead to a loss of motive power while driving at higher speeds and increase the risk of a crash.

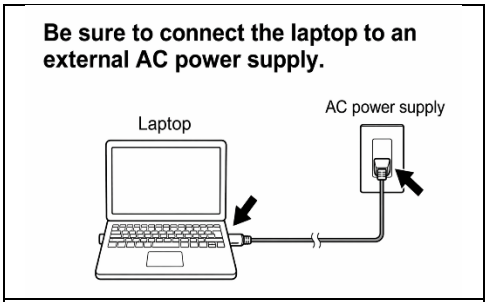


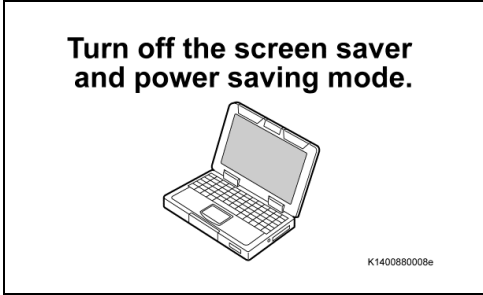
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V.SAFETY PRECAUTIONS

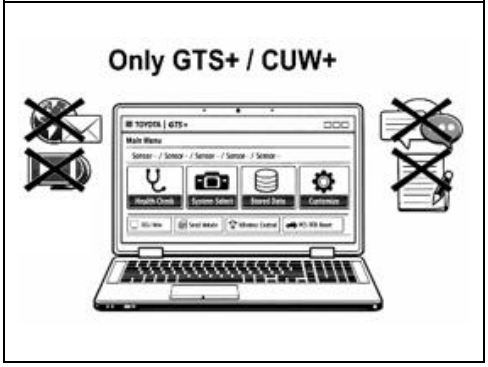
Critical CRITICAL INFORMATION - READ THOROUGHLY

An ECU could be damaged if an error occurs in the communication while reprogramming the ECU. Confirm all work is performed as described in these instructions.









1. STABILIZE THE POWER TO THE LAPTOP SIDE

a) Be sure to connect the laptop to an external AC power supply.

NOTICE:
The ECU could be damaged if the battery voltage of the laptop drops while reprogramming.

b) Turn off the screen saver and power saving mode of the laptop.

NOTICE:
If the screen saver or power saving mode launches while reprogramming, the communication may be disconnected. As a result, ECU may be damaged.

c) ***DO NOT*** block the ventilation opening for the cooling fan of the laptop.

NOTICE:
If the ventilation opening for the cooling fan is blocked with a sheet cover or the like, the laptop may be heated excessively, causing the operation of the laptop to stop.
Due to the stop of the operation, the communication for reprogramming signals could be stopped. As a result, ECU may be damaged.

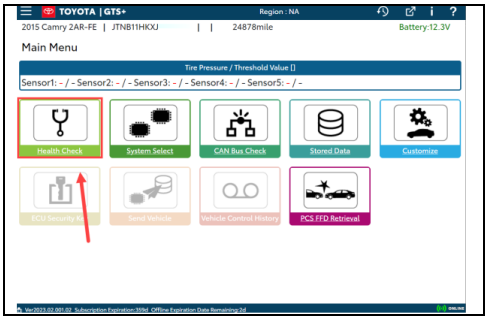
d) Close all applications and browsers except for GTS+ / CUW+.

NOTICE:
Due to the influence of other applications, the processing speed may decrease, which could cause the reprogramming process to fail.

Critical **The current version of GTS+ (2026.03.002.02) or newer, and a Mongoose-Plus MFC3 VIM cable MUST be used for this reprogram. Failure to do so may result in damage to the vehicle.**

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VI.MG-ECU (HEV/BEV SYSTEM) CALIBRATION ID VERIFICATION



1. CHECK FOR DTC'S

a)Using a GTS+, click the "Health Check" button on the Main Menu.

HINT:

This campaign covers only the software update to the MG-ECU (HEV/BEV SYSTEM), as detailed in these instructions. It does not cover the diagnosis or replacement of any other systems on the vehicle.

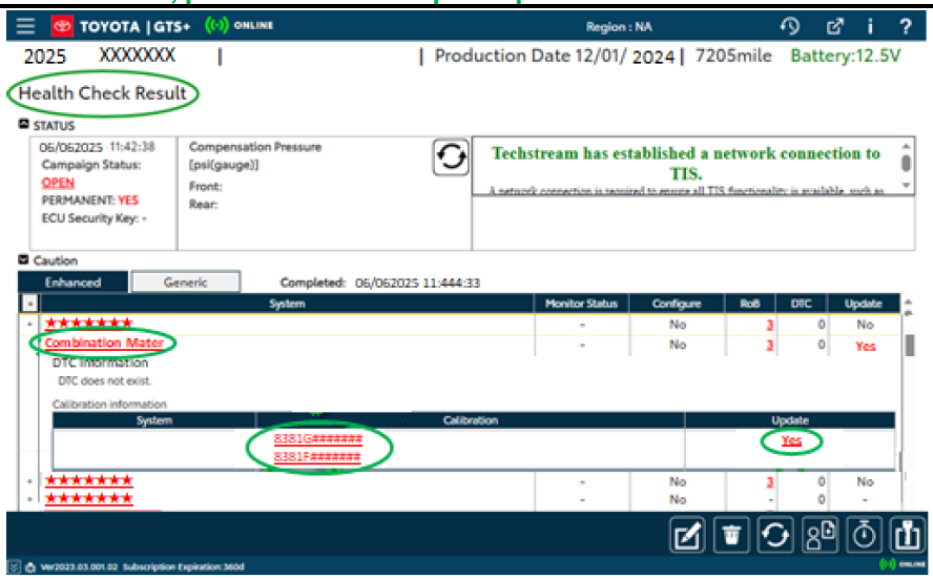
2. CHECK CURRENT CALIBRATION ID

a)Locate the "Update" column of the "Calibration Information" for the MG-ECU (HEV/BEV System) on the "Health Check Result" screen.

b)Determine the status of an available update; indicated by a YES or NO.

HINT:

If the CIDs indicate 'Yes', proceed with the update procedure.



Example of GTS+ view

Is there an update available for the MG-ECU (HEV/BEV System)?

Yes → Proceed to section VII. Vehicle preparation on page 5.

No → Campaign complete. Return the vehicle to the customer.

◄ CRITICAL MESSAGE ►

It is critical that T-SB-0107-20 Rev. 2 in addition to the Technical Instructions for this Recall are followed. This TSB outlines all steps necessary to prevent reprogramming failure. Toyota will not provide reimbursement coverage for reprogramming failures if this TSB is not followed.

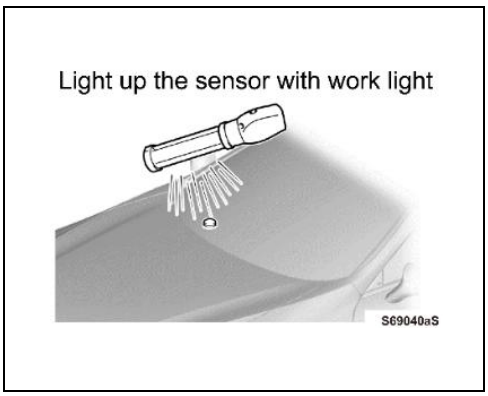
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VII.VEHICLE PREPARATION

1. VEHICLE PREPARATION

a) Confirm the following conditions:

- Vehicle in the IG position.
- Transaxle in Park.
- Parking brake engaged.
- Turn off all electrical accessories (i.e. climate control, audio system, etc.)
- Headlight switch in the DRL OFF position. (for vehicles w/ DRL OFF position)
- Windshield wiper switch in the OFF position.



b) When the vehicle has no “OFF position” in the light control switch:

1) Turn the IG ON.
2) Set the light control switch to the AUTO position and make sure that the exterior lights are turned on.
3) Light up the automatic light control sensor with work light to keep the exterior lights turned off.

2. CONNECT THE AUXILIARY BATTERY TO A POWER SUPPLY

a) Connect the DCA-8000 to the auxiliary battery.
b) Tap the Reflash icon from the Main Menu screen of the DCA-8000.

Critical	**A power supply MUST be used during reprogramming. ECU damage will occur if the battery voltage is not properly maintained during this re-flash procedure.**

3. VERIFY GTS+ SETUP

a)Verify that the GTS+ meets the following conditions:

- The latest version of software is loaded.
- The GTS+ battery is fully charged. If not, connect the GTS+ to power outlet.
- The DLC III cable is in good condition.

Critical	**The GTS+’s battery voltage must also be maintained during the re-flash procedure. If necessary, plug the GTS+ into power outlet during this procedure.**

NOTICE:
If the GTS+ communication with the vehicle fails during the re-flash procedure, the MG-ECU will be damaged.

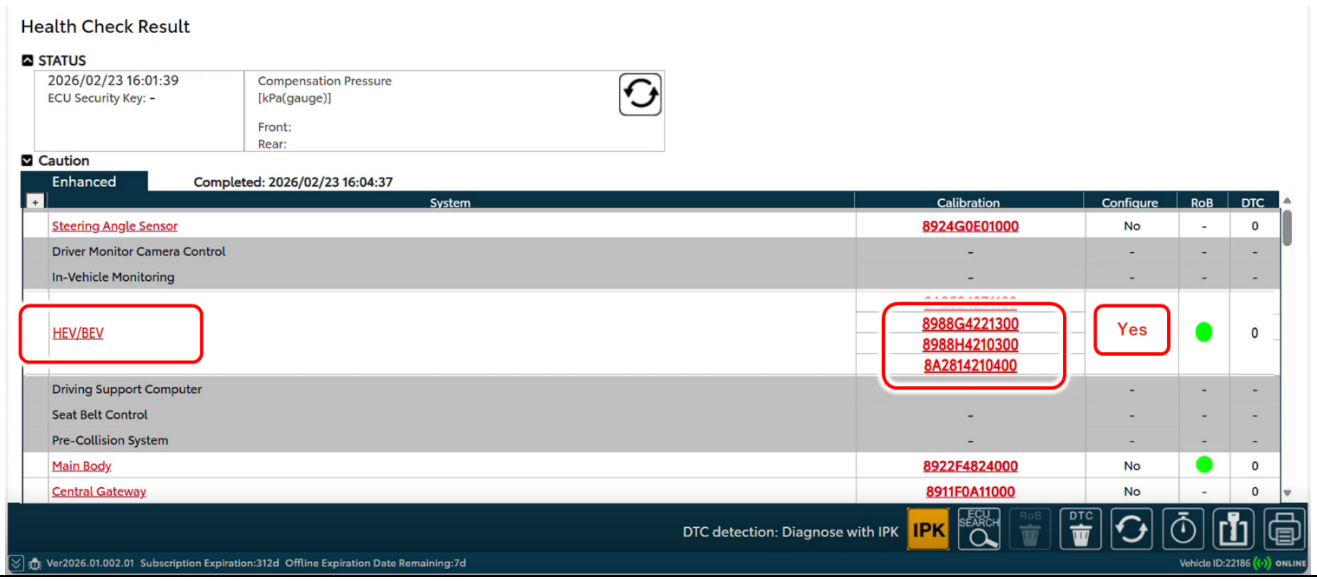
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VIII.UPDATE CALIBRATION

NOTICE:
Reflash failure should be extremely rare and can be avoided by following all instructions and reprogramming best practices.

1. CONFIRM THE CALIBRATION ID

a)Confirm the current calibration ID in the MG-ECU (HEV/BEV System).

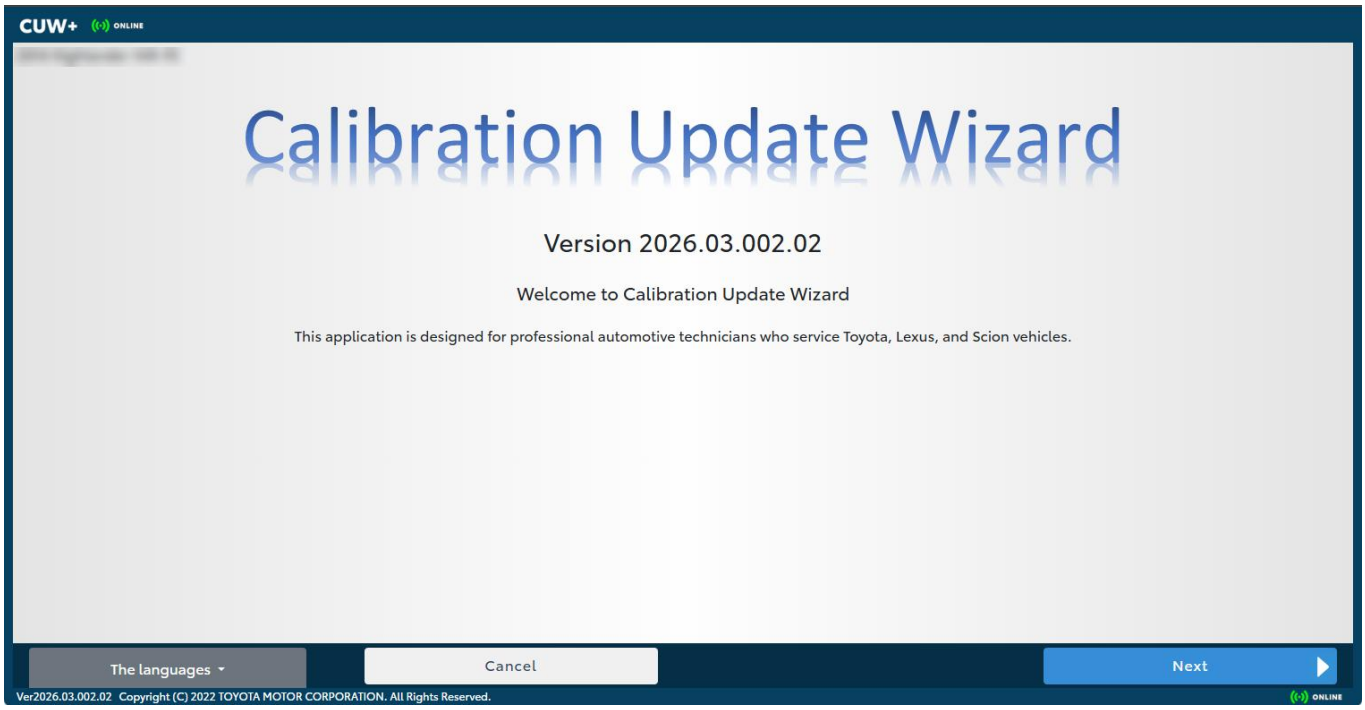


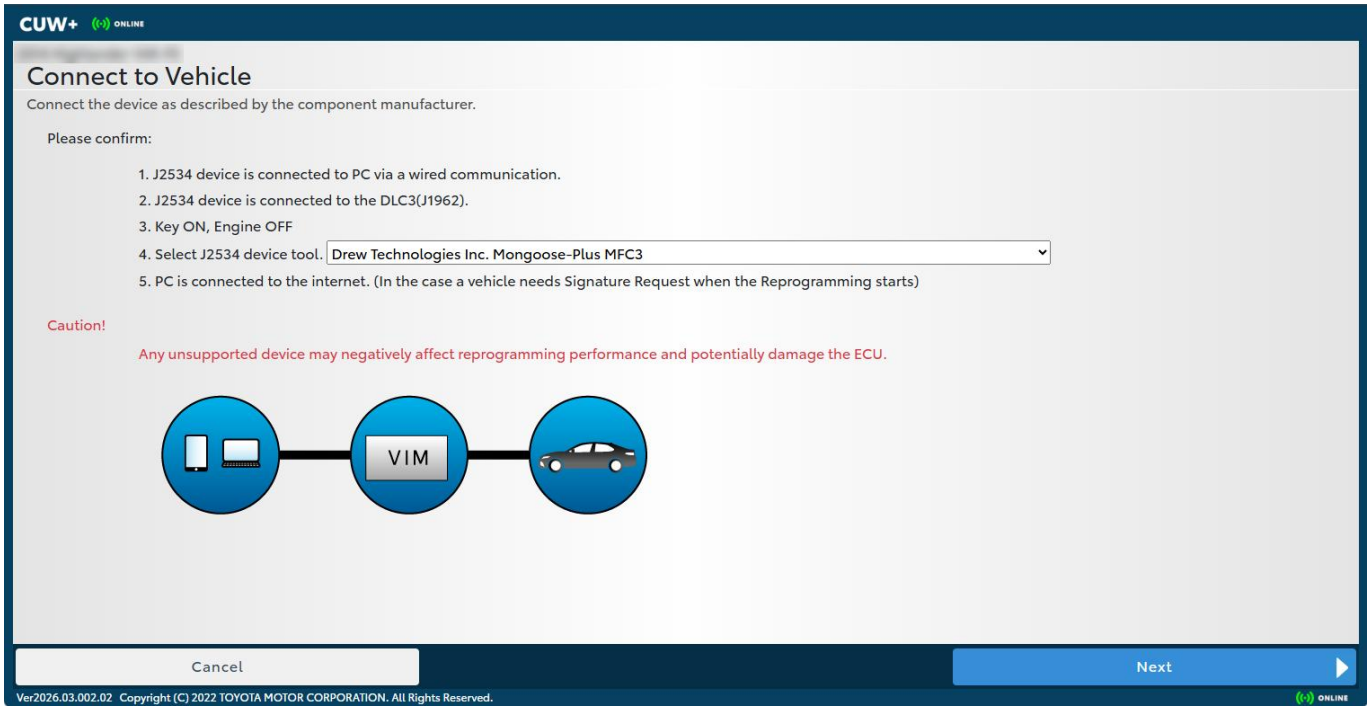
HEV/BEV System Calibrations				
System	Vehicle Model	Current Calibration ID	***New Calibration ID***	File Name and Size
HEV/BEV	AXAP64	8A281421**0400** 8988G422**1300** 8988H421**0300**	8A281421**0500** 8988G422**1400** 8988H421**0400**	T-0072-26.cuw 35,801 KB

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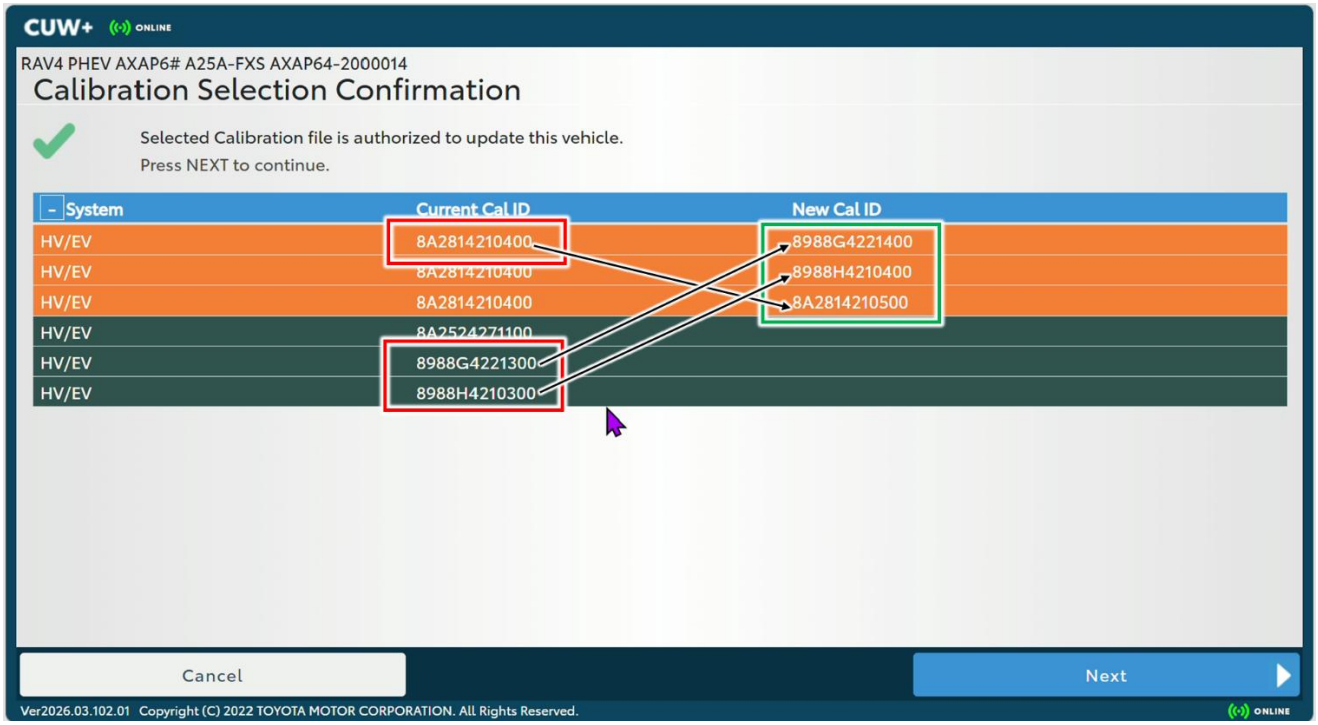
2. REFLASH THE HEV/BEV SYSTEM USING FILE Calibration ID

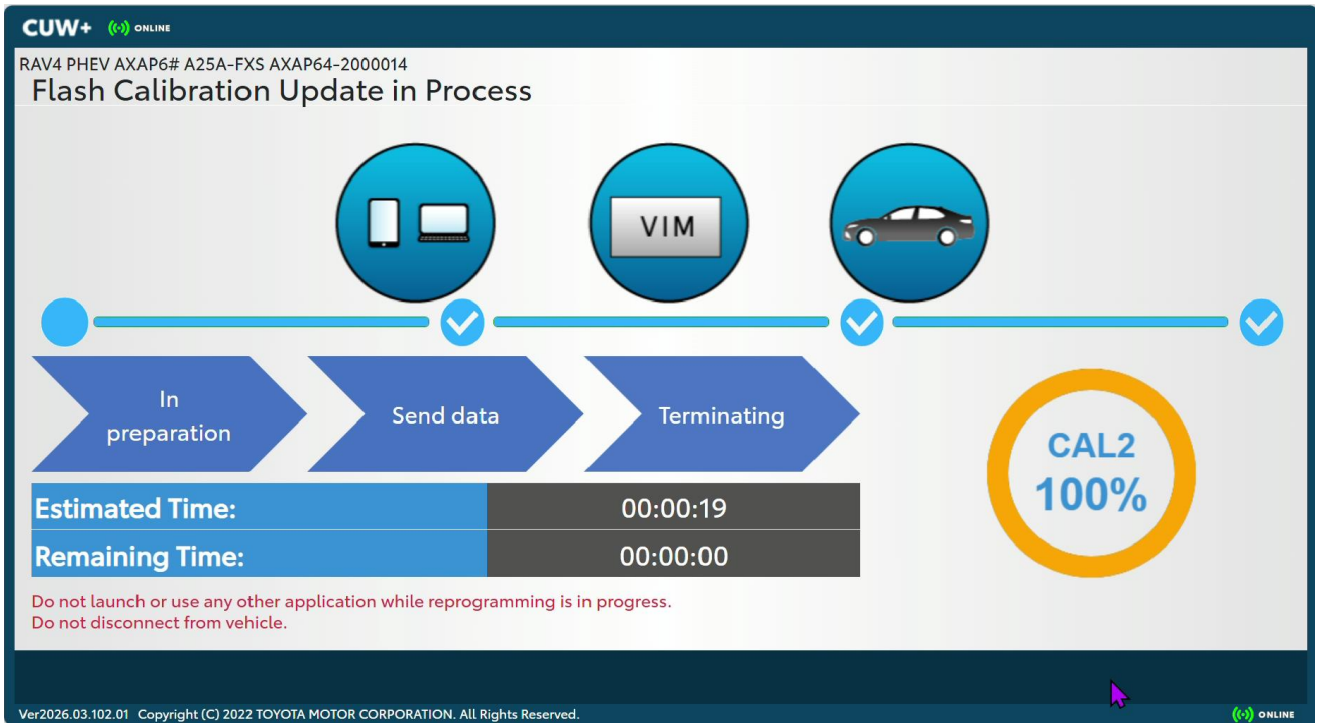
a)Click “Yes” on the “Health Check Results” screen or follow the links on the table above the begin to reflash process.





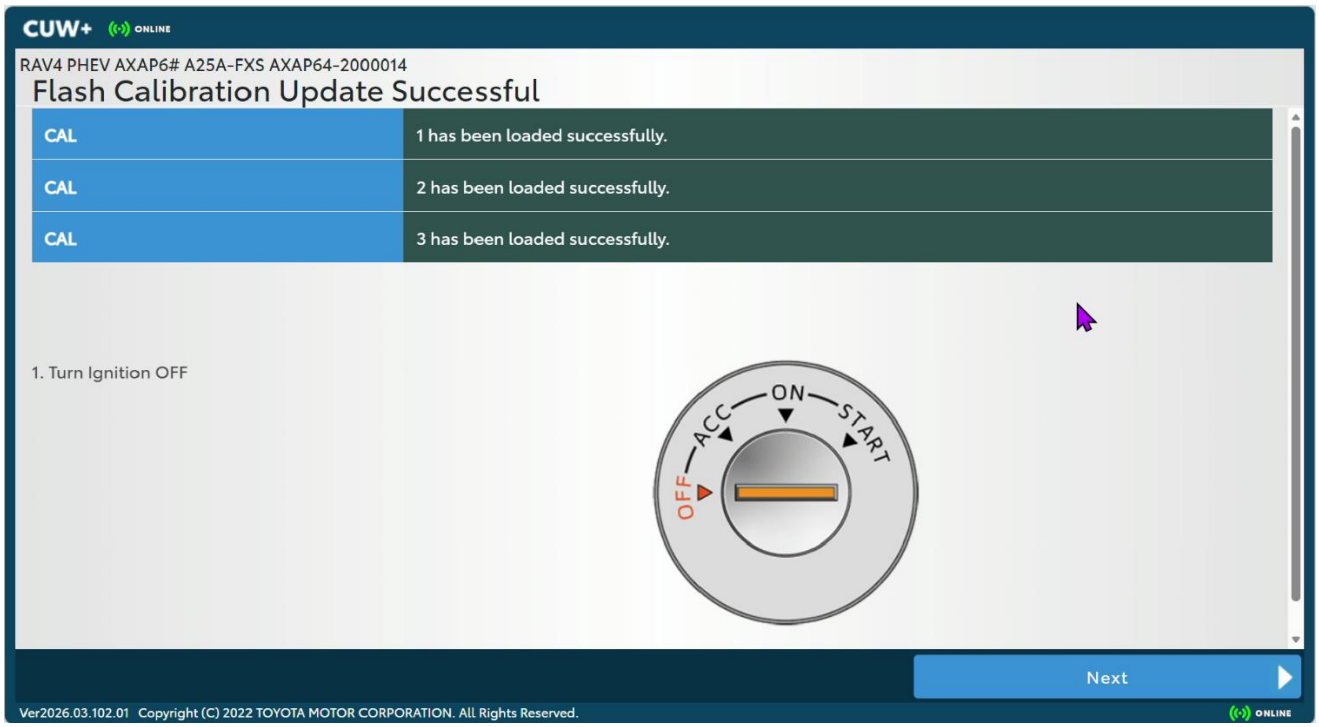
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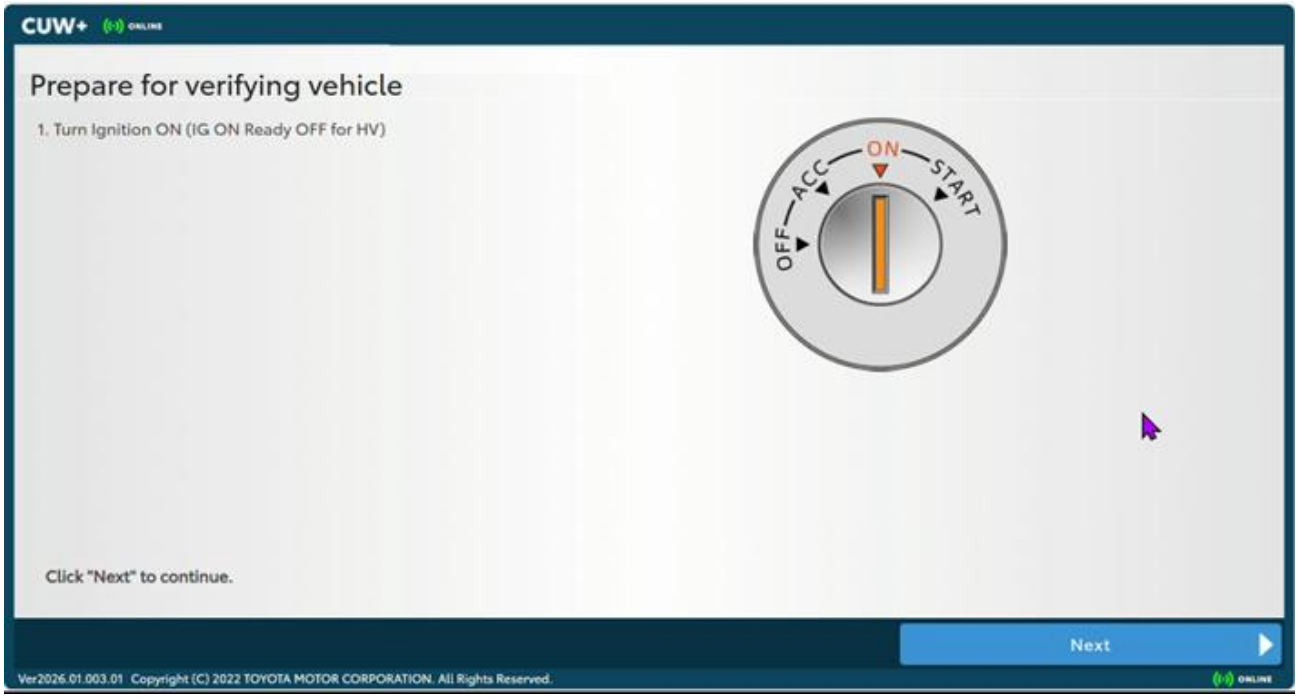


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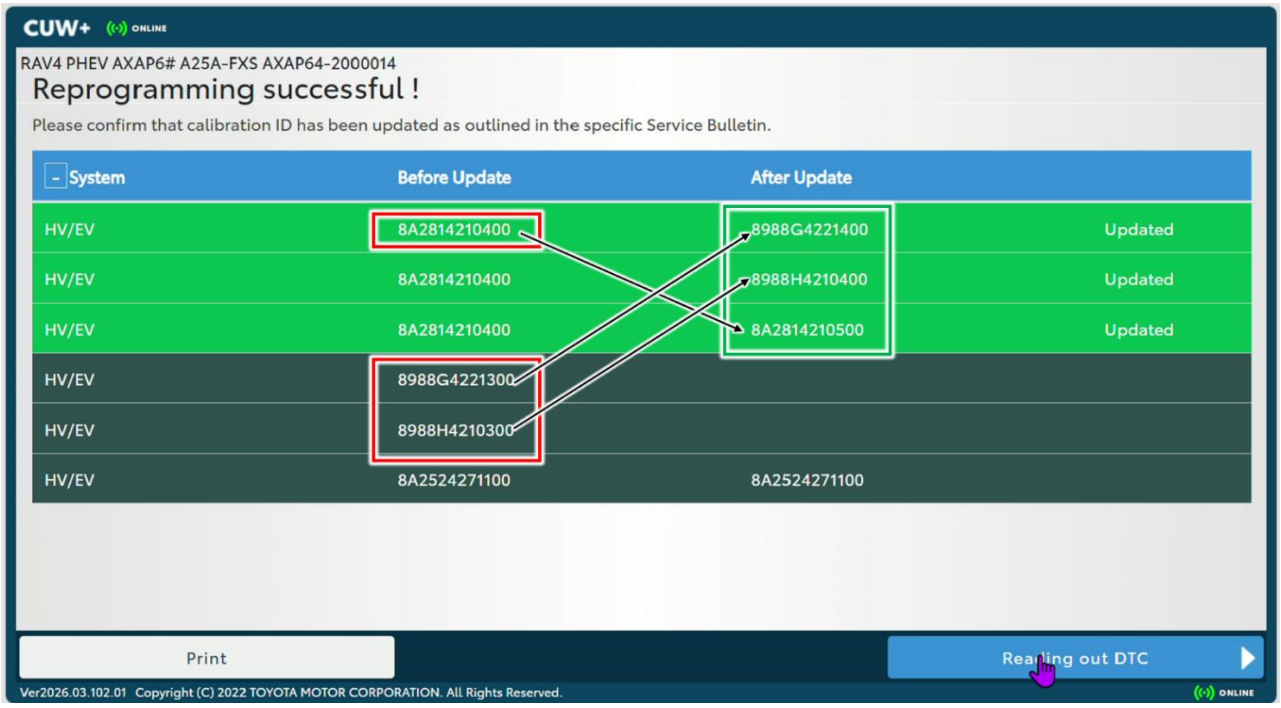
Finish!



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3. CONFIRM THE CALIBRATION ID AND SELECT “Reading out DTC”



4. DELETE THE WARNING MESSAGE ON THE MULTI-INFORMATION DISPLAY

a)Turn the ignition OFF.
b)Depress the brake pedal and turn READY ON.
c)Keep the brake pedal depressed for 10 seconds, then release the brake pedal.
d)Turn the ignition OFF.
e)Turn READY ON and then OFF again.

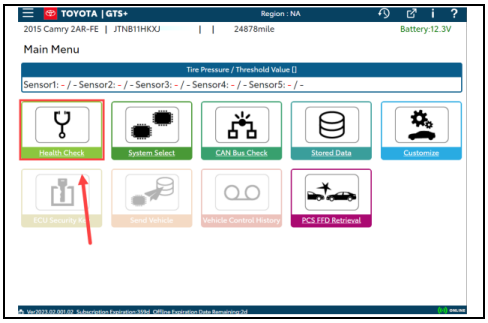
HINT:

If the displayed message does not disappear, repeat the procedure from step a).

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IX.COMPLETE REPAIR

1. DISCONNECT THE DCA-8000



2. PERFORM VERIFICATION HEALTH CHECK

a)Using a GTS+, click the “Health Check” button on the Main Menu.

b)Clear DTC’s that may have set during the re-flash procedure.

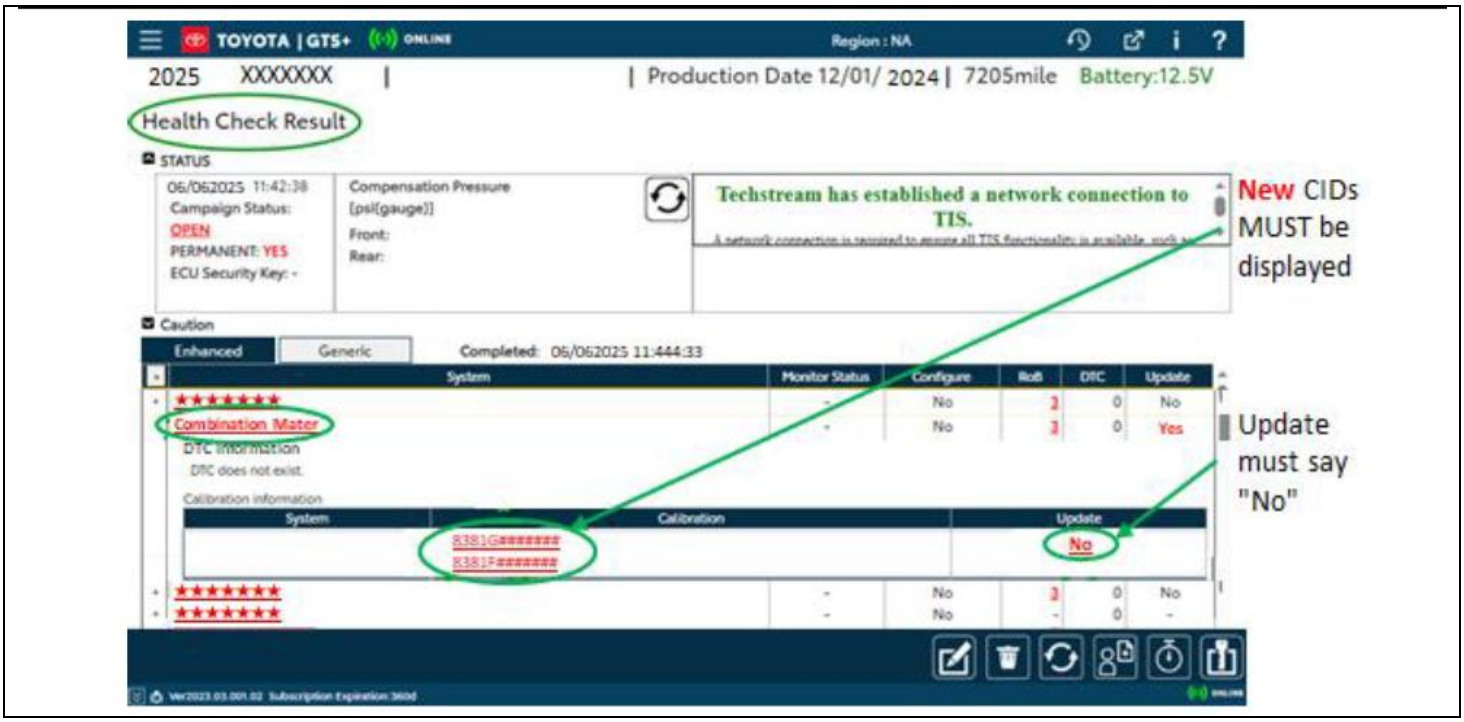
c)Re-run the Health Check to confirm that no DTCs reappear.

Critical	**THIS VERIFICATION HEALTH CHECK IS NECESSARY to update the results and CIDs to the National database.**

3. CONFIRM CID UPDATE

a)On the Stored Data tab, confirm the following for the HEV/BEV System:

- **The Calibration ID has the “*New* Calibration ID” number.**
- **The Update column says “No”.**



Critical	**Confirm the CIDs has been updated successfully to the *New* CIDs by someone other than the individual who performed the repair.** **Refer to page 6.**

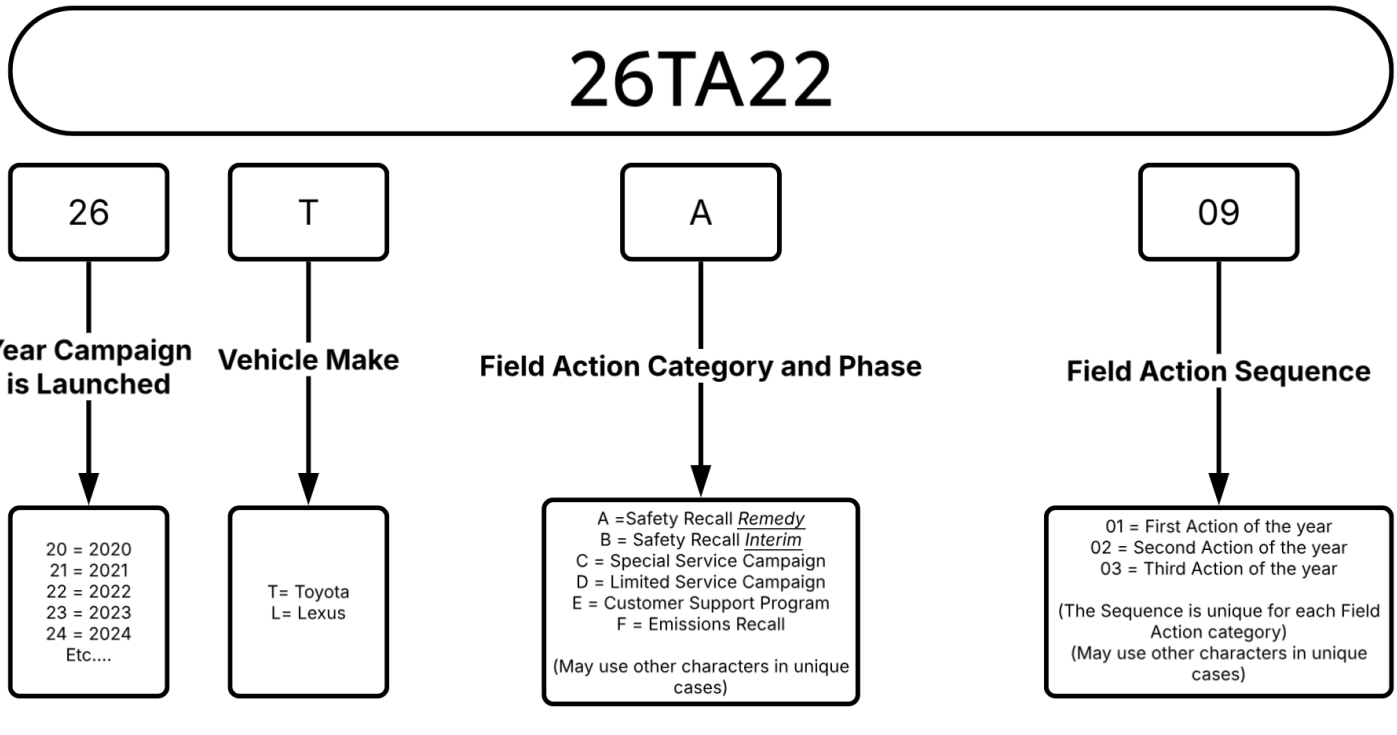
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◄ VERIFY REPAIR QUALITY ►

- **Confirm the reflash completes successfully.**
- **Confirm there are no DTCs after the Calibration update.**
- **If you have any questions regarding this update, please contact your area representative.**

X.APPENDIX

A. CAMPAIGN DESIGNATION DECODER



Examples:
20LA01 = Launched in 2020, Lexus, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2020
21LC02 = Launched in 2021, Special Service Campaign, 2nd Special Service Campaign Launched in 2021
22LE05 = Launched in 2022, Customer Support Program, 5th Customer Support Program Launched in 2022

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