

TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL 24TA11

TEMPORARY HARD BRAKE PEDAL DURING CORNERING

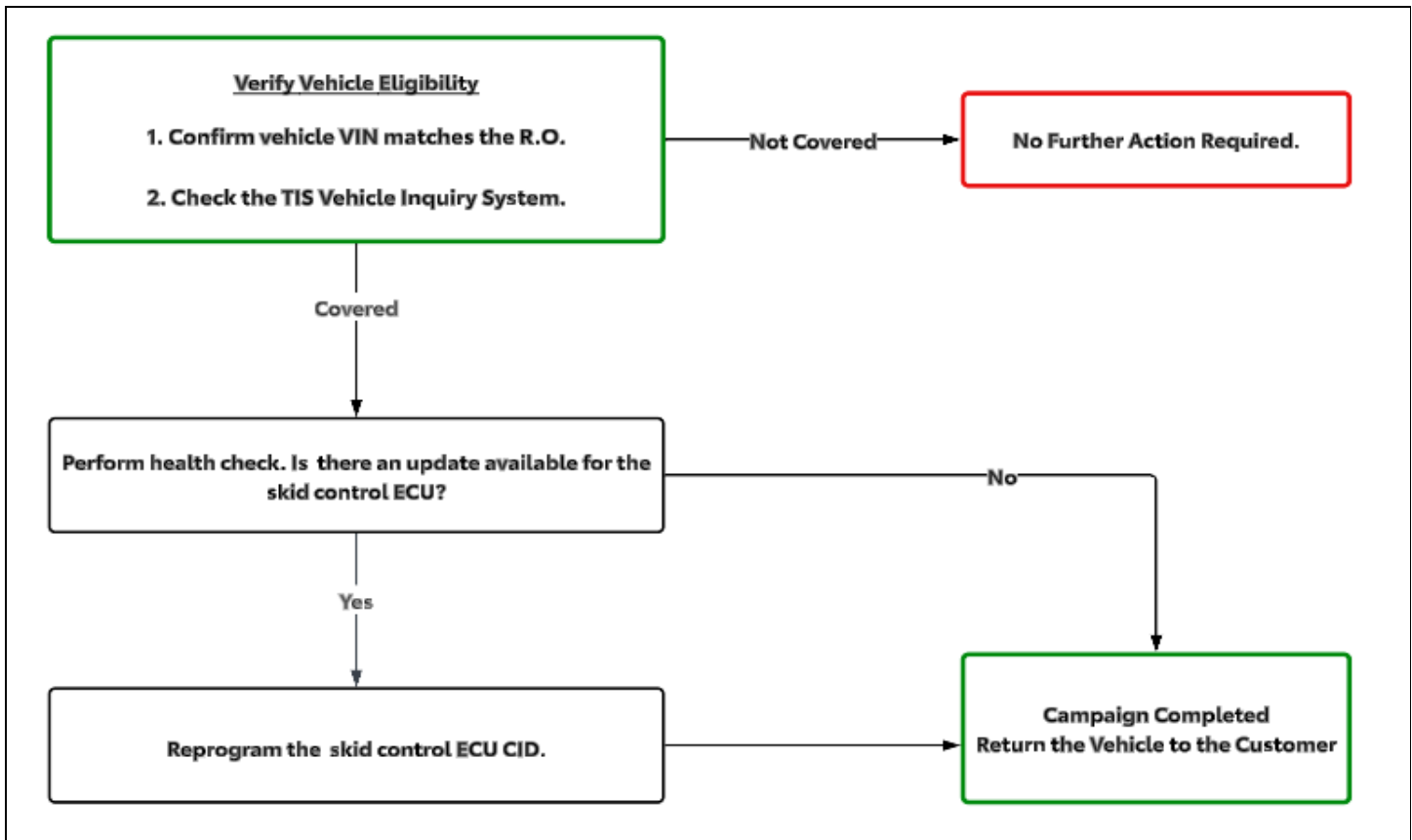
CERTAIN 2023-2025 MODEL YEAR COROLLA HV

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall 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 repair are required to complete the following course:

- TIC206A – Electrical Repair 1

It is the dealership’s responsibility to select technicians that have completed the above courses 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.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

- Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.
- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

Note: 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

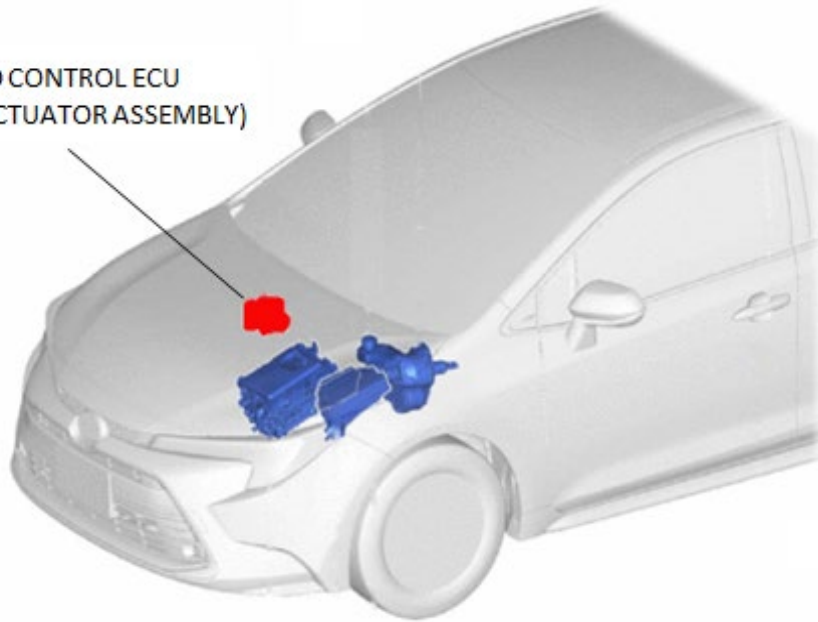
A. TOOLS & EQUIPMENT

• GTS+	• Standard Hand Tools	• DCA-8000 Battery Diagnostic Station
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IV. BACKGROUND

In certain situations, during brake application when turning a corner, a driver may temporarily experience a hard brake pedal that can cause the stopping distance to be more than expected. This can increase the risk of a crash.

SKID CONTROL ECU
(BRAKE ACTUATOR ASSEMBLY)



V. SAFETY PRECAUTIONS

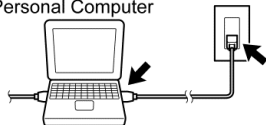
Critical

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.

Be sure to connect the personal computer to an external AC power supply.

Personal Computer AC power supply



K1400880016e

- 1. STABILIZE THE POWER TO THE PERSONAL COMPUTER SIDE**
 - a) Be sure to connect the personal computer to an external AC power supply.

NOTICE:

The ECU could be damaged if the battery voltage of the personal computer drops while reprogramming.

Turn off the screen saver and power saving mode.



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- b) Turn off the screen saver and power saving mode of the personal computer so that the power to the hard disk is kept supplied.

NOTICE:

If the screen saver or power saving mode launches while reprogramming, the communication may be disconnected, resulting in the damage of the ECU.

DO NOT block the ventilation opening.



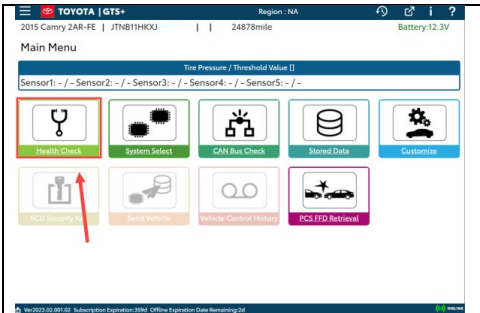
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- c) **DO NOT** block the ventilation opening for the cooling fan of the personal computer.

NOTICE:

If the ventilation opening for the cooling fan is blocked with a sheet cover or the like, the personal computer may be heated excessively, causing the operation of the personal computer to stop. Due to the stop of the operation, the communication for reprogramming signals could be stopped, resulting in the damage of the ECU.

VI. BRAKE/EPB SYSTEM CALIBRATION ID VERIFICATION



1. CHECK FOR DTC'S

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

HINT:

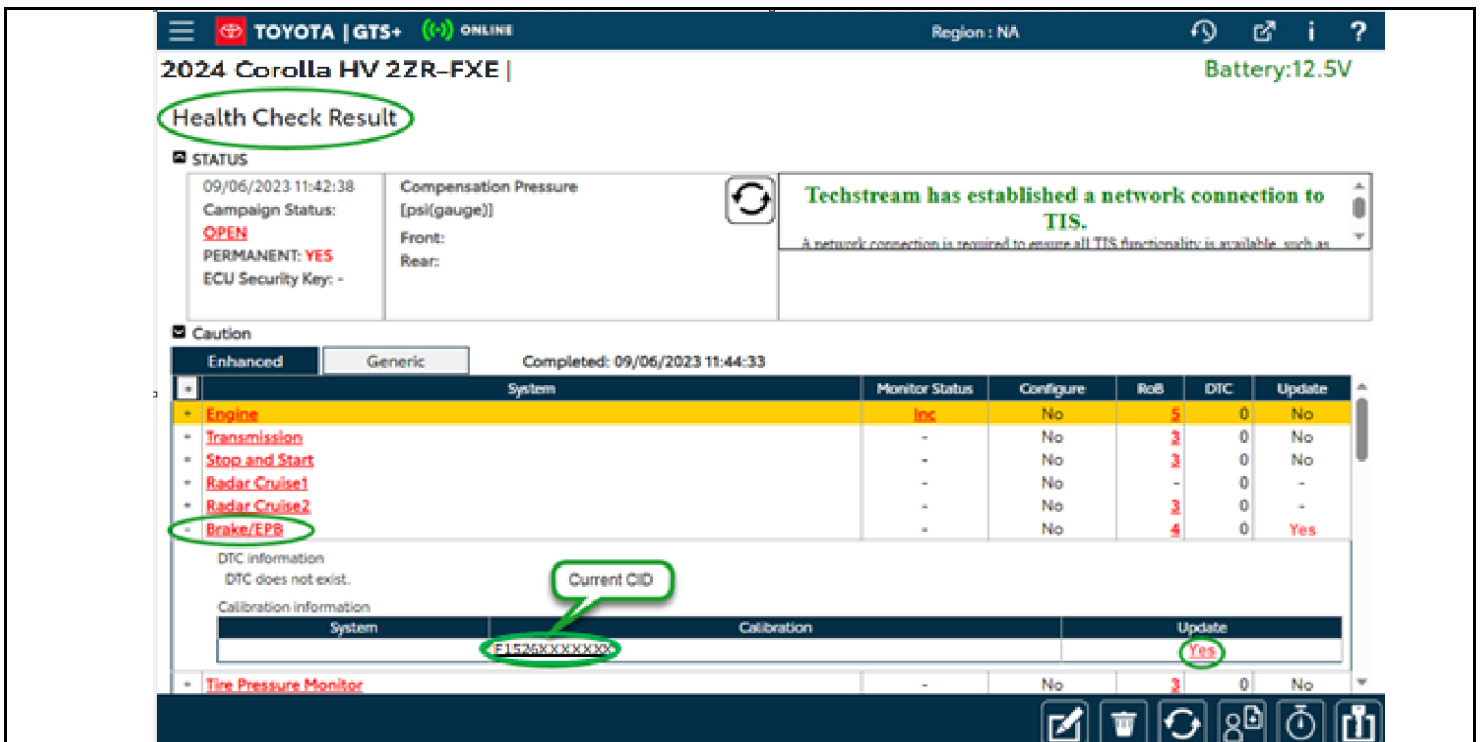
This Campaign covers only the software update to the Brake/EPB System, as detailed in these instructions. It does not cover the diagnosis or replacement of any other systems on the vehicle.

2. CHECK CURRENT CALIBRATION

- a) Locate the "Update" column of the "Calibration Information" for the Brake/EPB 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.

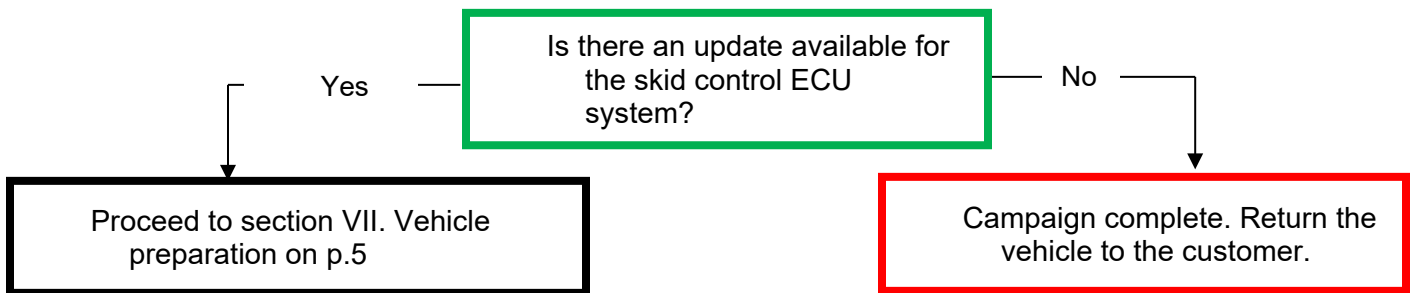


The calibration IDs to re-flash in this campaign are as shown in the table below.

Skid Control ECU Calibrations			
System	Vehicle Model	Current Calibration ID	New Calibration ID
Brake/EPB	Corolla	F152612D1000	F152612D1700
		F152612D1100	
		F152612D1200	
		F152612D1300	
		F152612D1400	
		F152612D1500	
		F152612D1600	

NOTICE:

If the Skid Control ECU contains the **New CIDs**, no update is necessary.

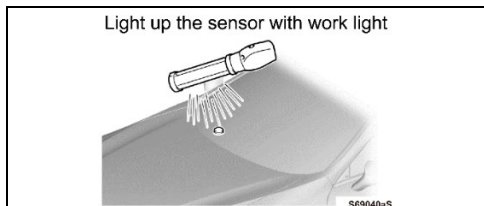


VII. VEHICLE PREPERATION

1. VEHICLE PREPARATION

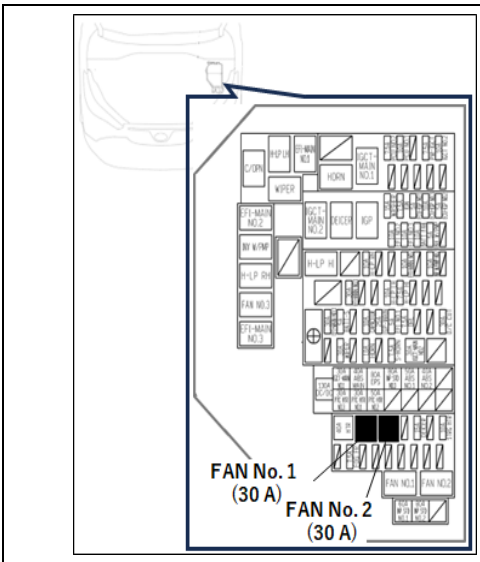
a) Confirm the following conditions:

- Vehicle in the IG position (READY OFF).
- 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. (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. STOP THE OPERATION OF THE ELECTRIC FAN

- a) Remove the FAN NO. 1 (30 A) fuse and FAN NO. 2 (30 A) fuse to keep the electric fan inactive while reprogramming.



If the electric fans run during the Calibration update procedure, the battery voltage will be inconsistent and could cause damage to the control module(s).

3. CONNECT THE 12V BATTERY TO A POWER SUPPLY (DCA-8000)

- a) Connect the DCA-8000 or other type of a power supply (not a battery charger) to the 12 V battery.
- b) Tap the Reflash icon from the Main Menu screen of the DCA-8000.



A power supply MUST be used during reprogramming. Please ensure DCA-8000 is connected and set to power supply mode. Voltage MUST be set to 13.5V.

Power supply must be connected directly to the 12v battery terminals and NOT the remote jump posts under the hood (if equipped).

ECU damage will occur if the battery voltage is not properly maintained during this re-flash procedure.

4. 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 a 120 V source.
 - The DLC III cable is in good condition.



The GTS+'s battery voltage must also be maintained during the re-flash procedure. If necessary, plug the GTS+ into a 120 V outlet during this procedure.

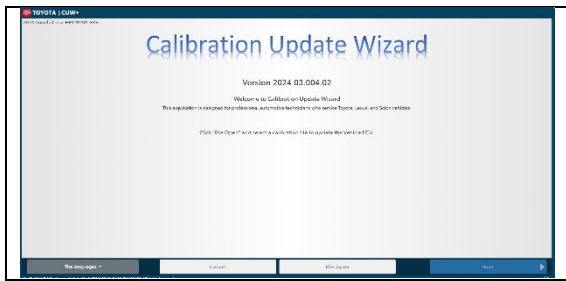
VIII. UPDATE CALIBRATION

1. REFLASH THE SKID CONTROL ECU

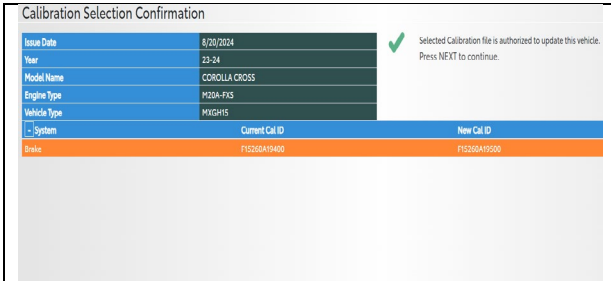
- a. Click yes on the health check results screen or follow the link on the table above to begin the reflash process.

NOTICE:

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

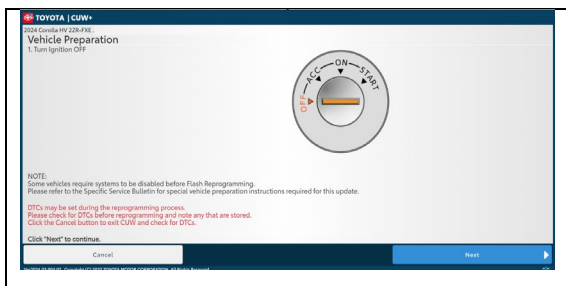


2. LAUNCH CALIBRATION WIZARD
Select "Next"

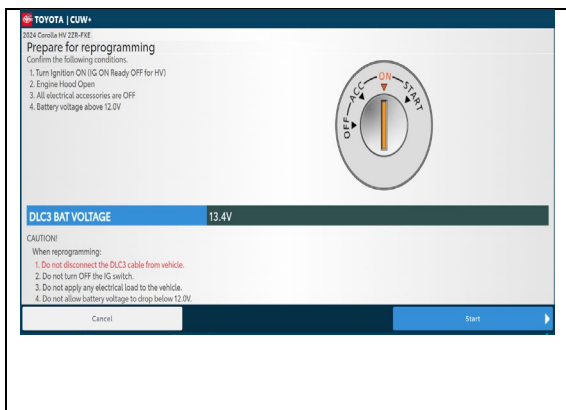


3. CONFIRM THAT "NEW CAL ID" IS CORRECT, AND THEN CLICK ON "NEXT".

Note: If the incorrect CAL ID file is selected it is not possible to move onto the re calibration.

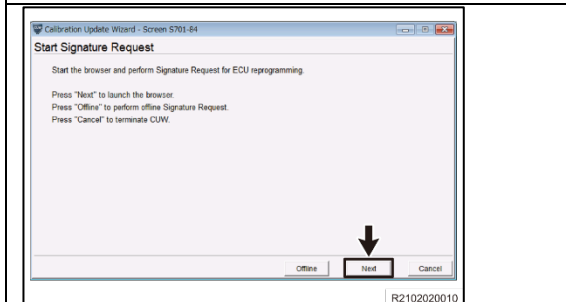


4. TURN THE IGNITION OFF, THEN CLICK "NEXT"



5. FOLLOW THE ON-SCREEN INSTRUCTIONS AND CONFIRM THE FOLLOWING, THEN CLICK "NEXT"

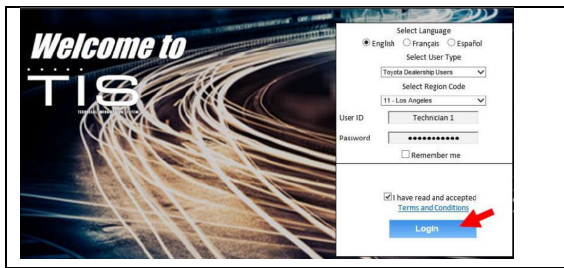
PC is connected to VIM.
Ignition is ON and engine is OFF
Hood is open.
All accessories are OFF
Battery voltage is above 11.8V



6. PERFORM SECURITY SIGNATURE TO THE SERVER, THEN HIT "NEXT"

a. Follow the instructions on screen

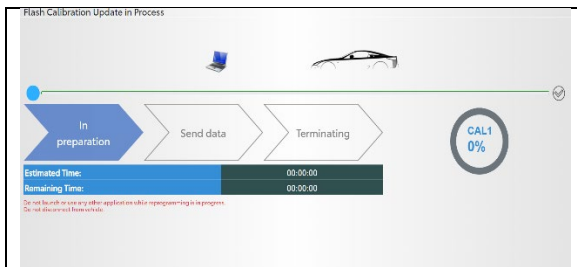
Hint: The reprogramming will not begin without the security signature.



7. LOGIN TO TIS

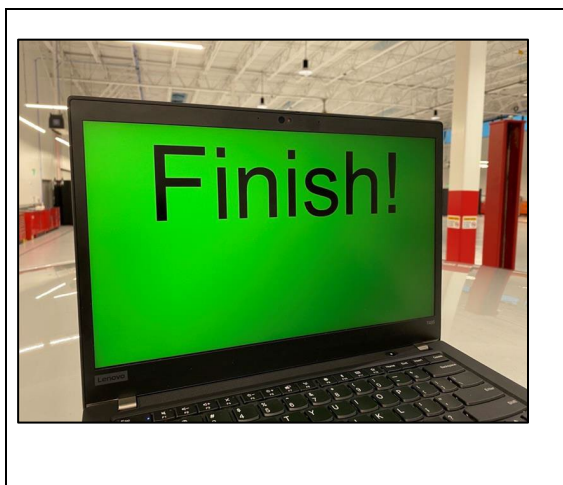
- a. Input TIS login credentials and select “Login”

Note: This step requires internet.



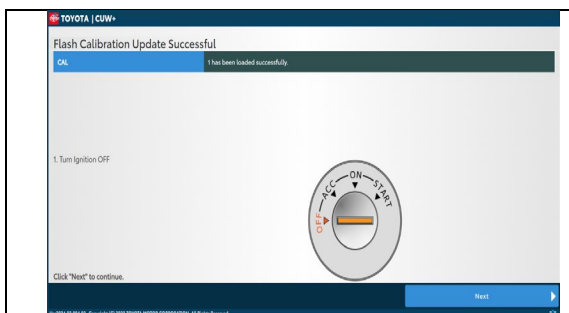
8. RECALIBRATION WILL NOW BEGIN

Do Not disturb the vehicle during flash reprogramming.



14. RECALIBRATION FINISHED

- a. The following Screen will appear at the end of the reflash.

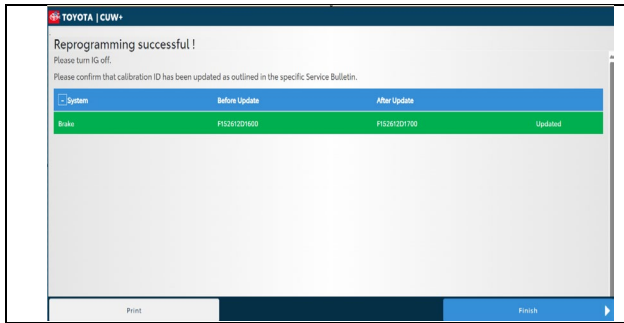


15. TURN THE IGNITION OFF FOR A MINIMUM OF 10 SECONDS, THEN CLICK “NEXT”



16. TURN THE IGNITION TO THE ON POSITION, THEN CLICK “NEXT”

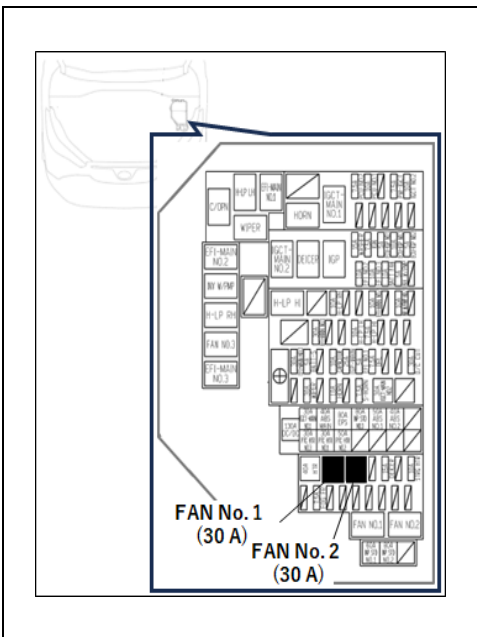
Notice for Hybrid Models: DO NOT turn the IG ON with the brake pedal depressed.



17. CONFIRM CALIBRATIONS WERE SUCCESSFULLY UPDATED.

VIII. COMPLETE REPAIR

5. DISCONNECT THE DCA-8000

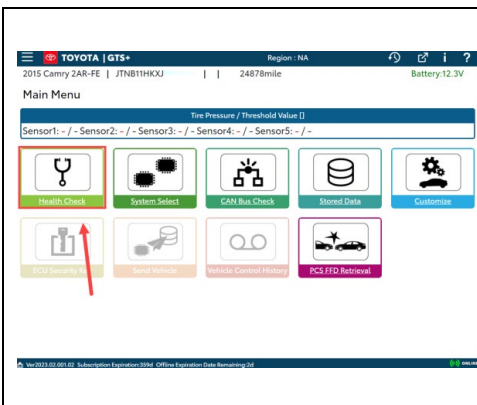


6. REINSTALL FUSE

- a) Install the FAN NO. 1 (30 A) fuse and FAN NO. 2 (30 A) fuse to the original position.

7. CHECK THE OPERATION OF THE ELECTRIC FAN

- a) Turn the READY ON.
- b) Turn the air conditioner ON to check if the electric fan operates.



8. 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 DTC's reappear.

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

9. CONFIRM CID UPDATE

- a) On the Stored Data tab, confirm the following for the Brake/EPB System:
- The Calibration number has the “**New CID**” number.
 - The Update column says “No”.

Health Check Result

STATUS

09/06/2023 11:42:38
 Campaign Status: **OPEN**
 PERMANENT: **YES**
 ECU Security Key: -

Compensation Pressure [psi(gauge)]
 Front:
 Rear:

Techstream has established a network connection to TIS.
 A network connection is required to ensure all TIS functionality is available, such as

Caution

Enhanced Generic Completed: 09/06/2023 11:44:33

System	Monitor Status	Configure	RoB	DTC	Update
Engine	Inc	No	5	0	No
Transmission	-	No	3	0	No
Stop and Start	-	No	3	0	No
Radar Cruise1	-	No	=	0	-
Radar Cruise2	-	No	3	0	-
Brake/EPB	-	No	4	0	No
Tire Pressure Monitor	-	No	3	0	No

DTC information
DTC does not exist.

Calibration information

System	Calibration	Update
	F15260C35200	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.



Customer Health Check Report Button

10. PRINT CUSTOMER HEALTH CHECK REPORT

- From the Stored Data tab, select the Customer Health Check Report button (TIS will launch when button is pressed).
- Log in to TIS.
- Input Vehicle Mileage and Repair Order number.
- Check the “Performed” campaign button for the applicable campaigns.
- Select the Report button.



Diagnostic Report

Vehicle Information

Mileage:

Repair Order:

Our systems show the following campaigns are outstanding. Have any of these campaigns been completed? (Check for SSC door label if unsure.)

XXX: Performed Not Performed

- f) Confirm Customer Health Check Report information is correct.
- g) Print Customer Health Check Report from TIS.
- h) Sign and provide to the customer.

ADDITIONAL PROCEDURE FOR CALIFORNIA DEALERS ONLY

Install the Authorized Modifications Label after the repairs have been completed. Using a permanent marker, fill out the label and affix it to the location under the hood as indicted.

Form booklets and Authorization Labels can be ordered from the MDC (Booklet material number 00410-92007, Label material number 00451-00001-LBL).

**TOYOTA MOTOR CORPORATION
AUTHORIZED MODIFICATIONS**
THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:

THESE MODIFICATIONS HAVE BEEN APPROVED
AS APPROPRIATE BY EPA AND CARB

DEALER CODE: _____ DATE: _____
CHANGE AUTHORITY: _____

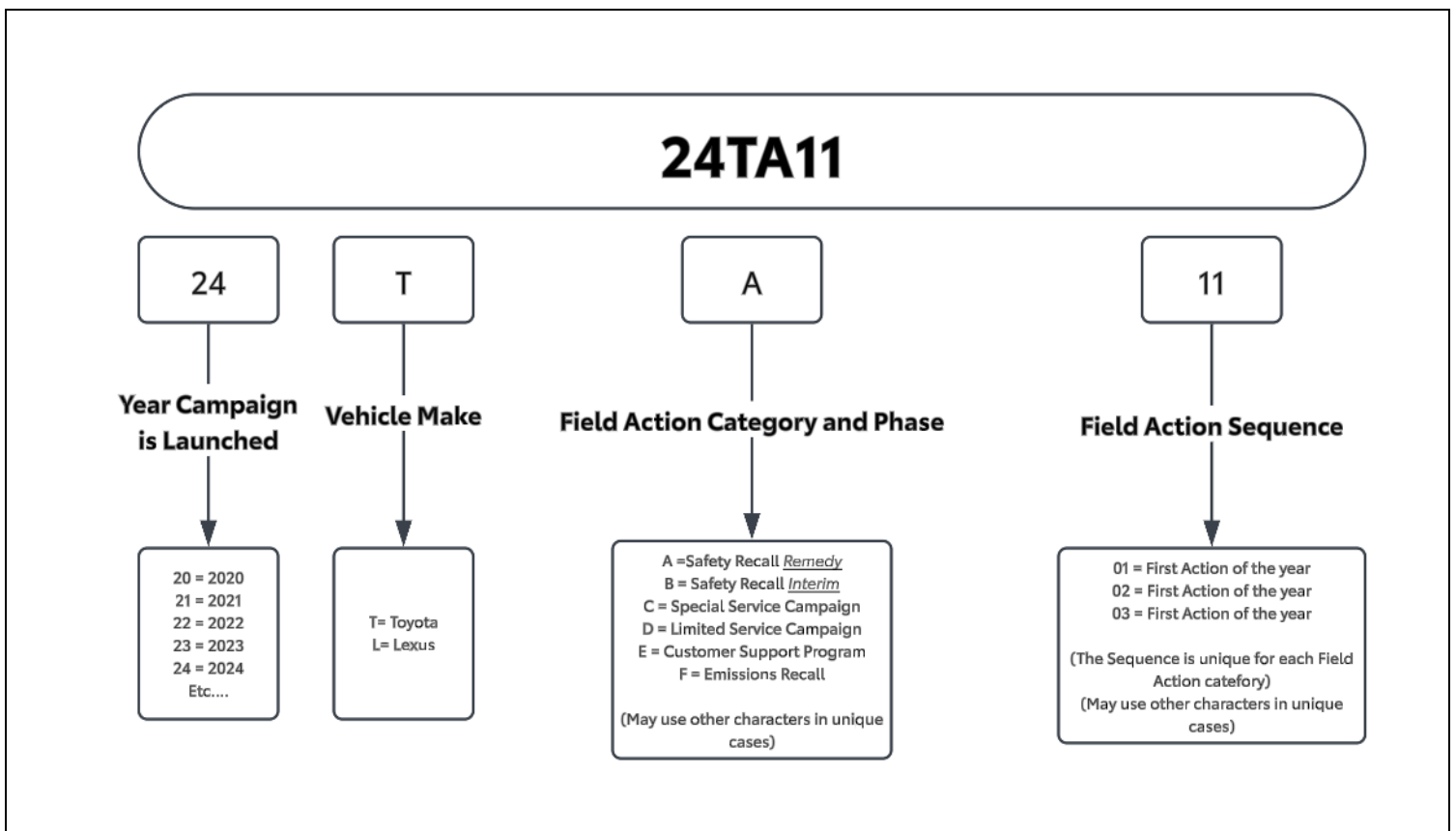
1-4	"Remedy for (Campaign Designation) "	6	Date Completed
5	Dealer Code	7	Campaign Designation

◀ 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.

VIII. APPENDIX

A. CAMPAIGN DESIGNATION DECORDER



Examples:

19TA01 = Launched in 2019, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2019
20TC02 = Launched in 2020, Special Service Campaign, 2nd Special Service Campaign Launched in 2020
21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021