



TECHNICAL INSTRUCTIONS

FOR

2010-2014 MODEL YEAR Prius ZVW30

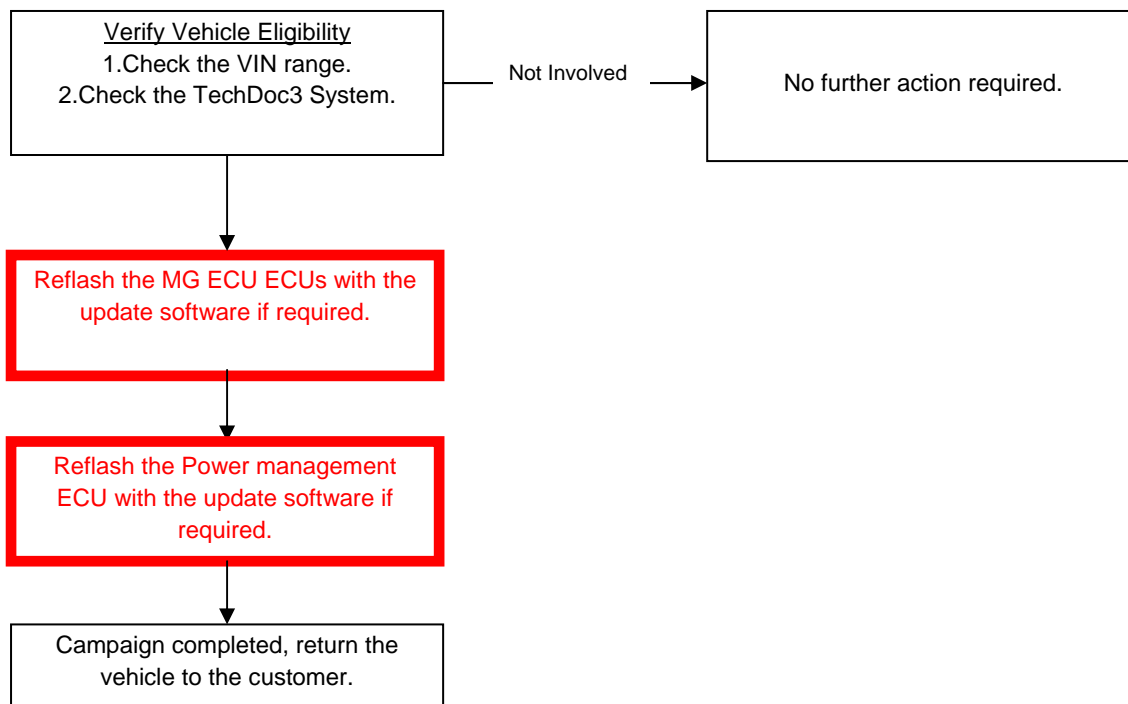
MG ECU and POWER MANAGEMENT ECU SOFTWARE UPDATE (AGG09)

These instructions are to be read and signed by ALL Technicians PRIOR to carrying out repair process

Technician Name	Signature	Licence	Date

Service/After Sales Manager Name:.....Signature:..... Date:.....

I. OPERATION FLOWCHART



II. IDENTIFICATION OF AFFECTED VEHICLES

A. AFFECTED VIN RANGE

Model Name	VIN Range				Production Period
	Model Code	WMI	VDS	VIS	
Prius	ZVW30	JTD	KN36U#	#1000090 - #1795820	From 23/03/2009 to 05/02/2014
				#5000001- #5740976	
			KN3D#	#0048370 - #0048370	

Note: - # indicates that various characters may occupy that position.

- Although the involved vehicles are within the above VIN ranges, not all vehicles in these ranges were sold in your country.

IMPORTANT:

Not all vehicles in the VIN range are affected. As always, confirm VIN eligibility and to assure the campaign is applicable. This will verify the vehicle is affected and has not already been completed prior to dealer shipment or by another dealer. Warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

III. PREPARATION

A. PARTS

- No parts are required.

B. TOOLS & EQUIPMENT

- GTS or TD3 Lite with v8.30.023 software

IV. WORK PROCEDURE

1. CONFIRM THE MG ECU CALIBRATION ID

- 1). Perform a Health Check using the GTS.
- 2). Confirm the current calibration ID in the ECU.

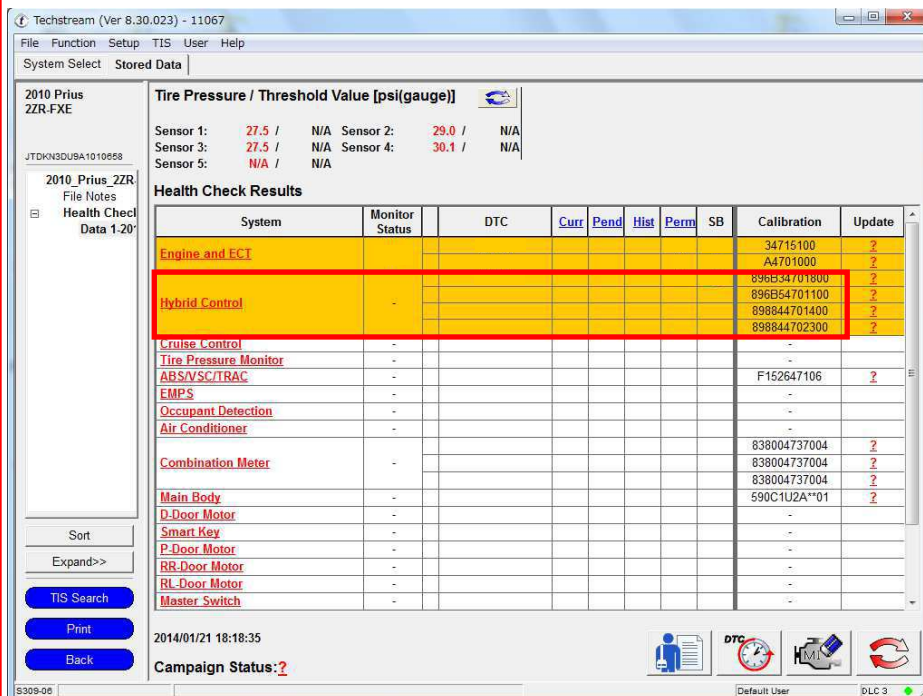
Table1. MG ECU CID table

Model	Model Year	Production Date (an aim)	Current CID (To be reflashed)	New CID
Prius	2010-2014MY	04/2009-11/2011	<1MG> 898844701200 898844701300	898844701400
			<2MG> 898844702100 898844702200	898844702300
			<1MG> 898844708000 898844708100	898844708200
		12/2011-02/2014	<1MG> 898844708000 898844708100	898844708200
			<2MG> 898844709000 898844709100	898844709200

<Note>

- MG-ECU to be reflashed both for 1MG and 2MG CID.
- CID will be displayed automatically from above table1.

<NOTE> The arrangement of CID is as follows.



Confirm the **MG ECU CID**.

896B34701800

← Power Management ECU CID (Main)

896B54701100

← Power Management ECU CID (Sub)

898844701400

← MG ECU CID (MG 1)

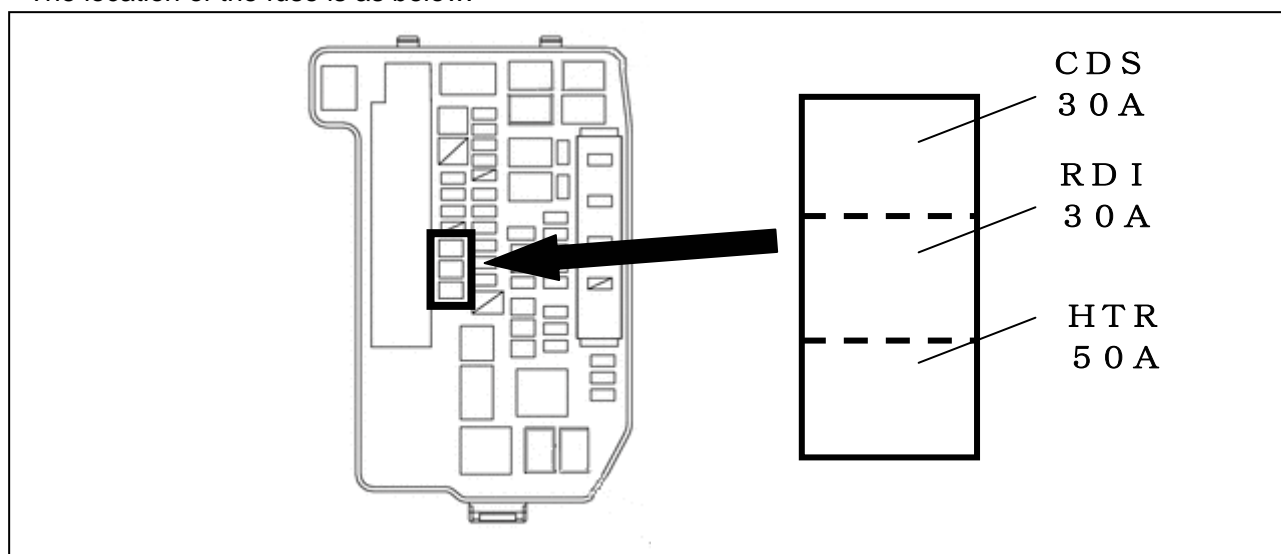
898844702300

← MG ECU CID (MG 2)

2. Preparation

Remove the fuse, with which CDS (30A), RDI (30A) and HTR (50A) are united, from the engine room relay block.

The location of the fuse is as below.



3. REFLASH THE MG ECU

Reflash the MG ECU, following the procedures outlined in [\(TSB-G0002\)](#), "REPROGRAMMING METHOD OF ECU". Please refer to the table above for the **NEW CID**.

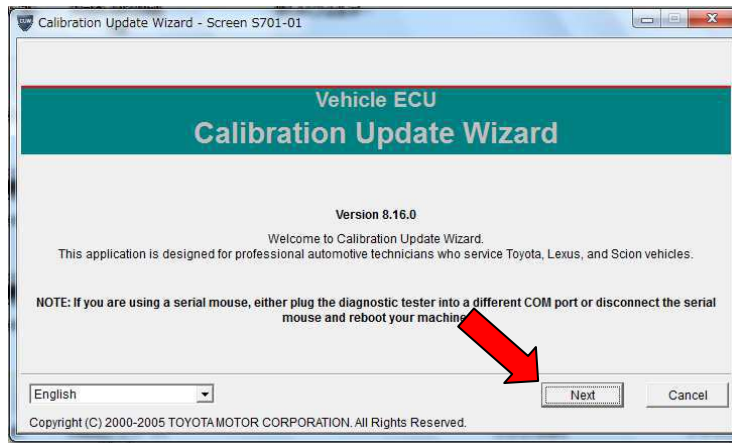
1. CONFIRM THE BATTERY CONDITION

- a) Make sure that the battery voltage is more than 12V before starting to reprogram the ECU. If the battery voltage is below or just 12V, charge the battery.

2. REPROGRAM THE ECU

- a) Please confirm the **UPDATED** (new) calibration ID as mentioned in Table1.
- b) Connect GTS to the DLC3.
- c) Turn the engine switch ON (IG-ON).
(Push the Power button twice when the car is OFF – DO NOT operate the brake pedal.)
- d) Reprogram the MG ECU with the newly designed software (CID).
 - 1) Start the newly designed software.
See the above Table1.

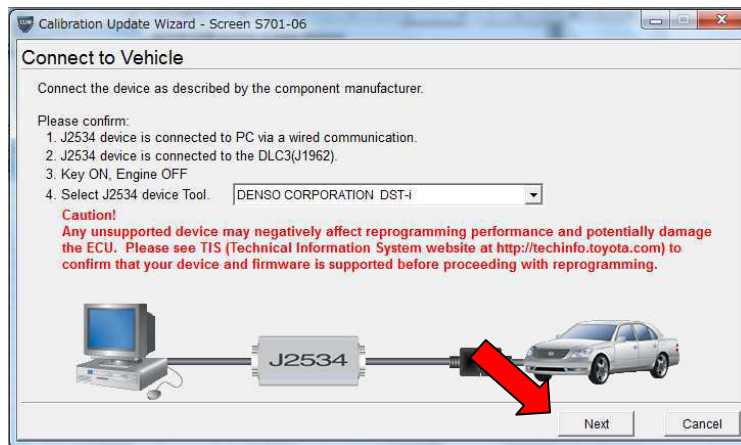
2) Click "Next".



3) Click "Next".

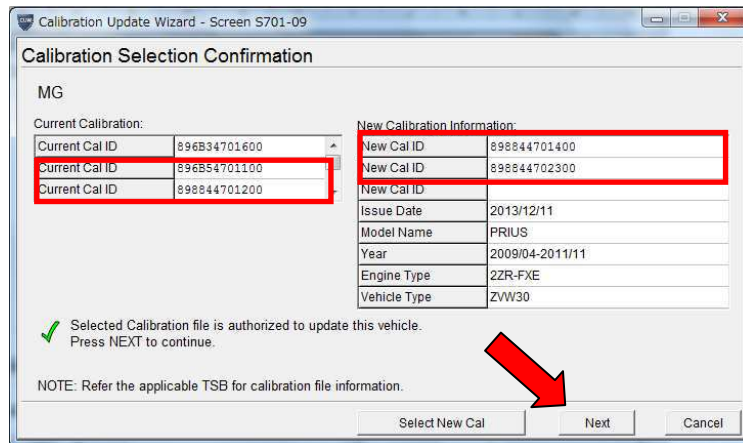
NOTE:

Confirm the car in "IG-ON" and GTS correctly connected to the DLC3.

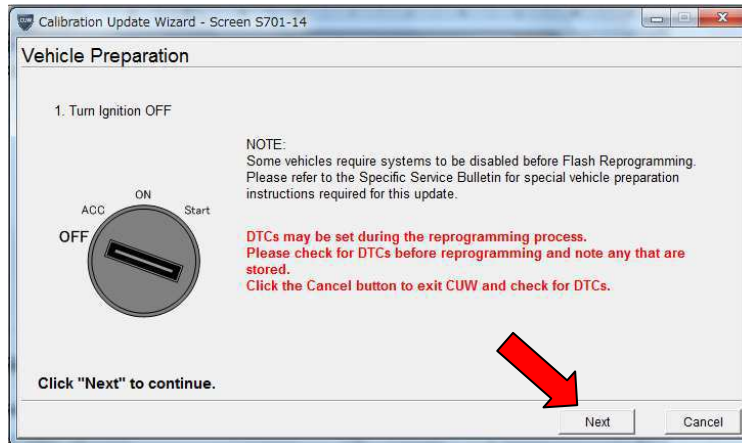


4) Confirm Current Cal ID and New Cal ID, and then click "Next".

See the above Table1.

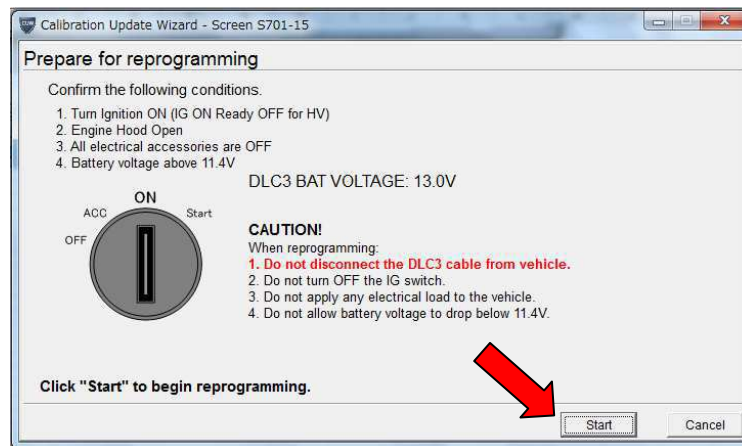


5) Turn the engine switch off, and then click "Next".



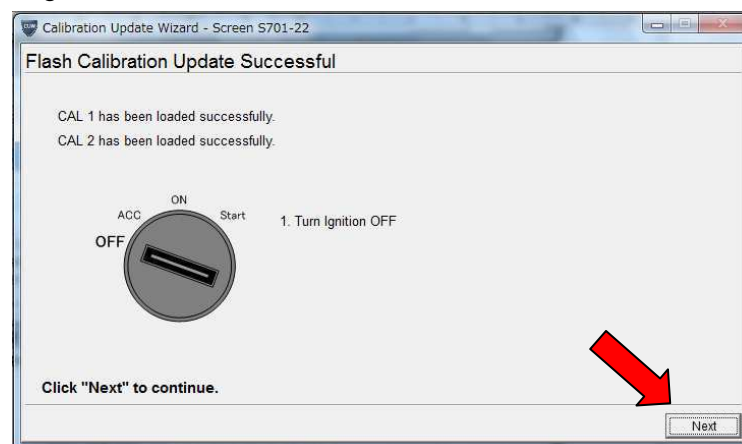
6). Confirm the following condition.

- i). Turn the engine switch ON (IG-ON).
NOTE: DO NOT operate the brake pedal.
- ii). All electrical accessories are OFF.
- iii). Battery voltage above 11.4V.
- iv). click "Start"



7). Software is being updated.
Please wait until it's completed.

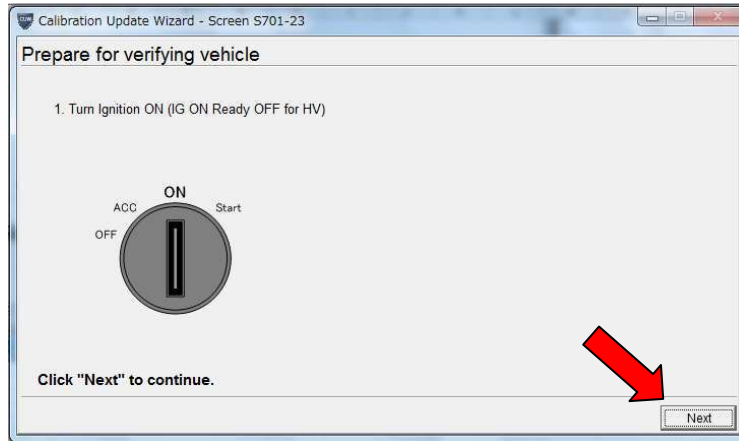
8). Turn the engine switch off, and then click "Next".



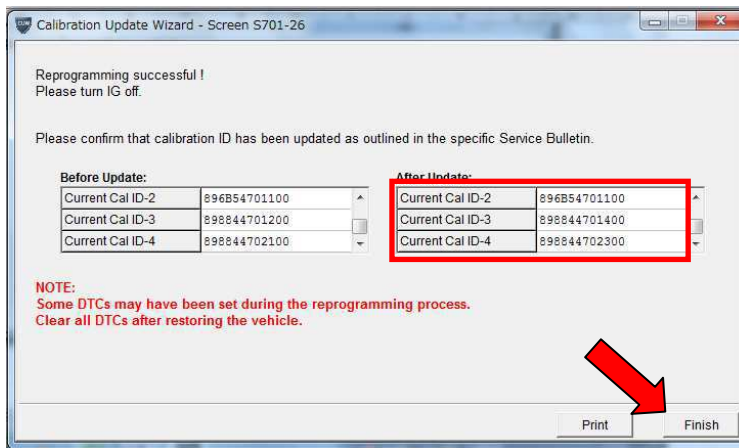
9). Turn the engine switch on (IG-ON), and then click "Next".

NOTE:

DO NOT operate the brake pedal.



10). Confirm Current Cal ID after update, and then click "Finish".
See the above table1.



11). Go to next step (Reprogramming the Power Management ECU).

4. CONFIRM THE POWER MANAGEMENT ECU CALIBRATION ID

- 1). Perform a Health Check using the GTS.
- 2). Confirm the current calibration ID in the ECU.

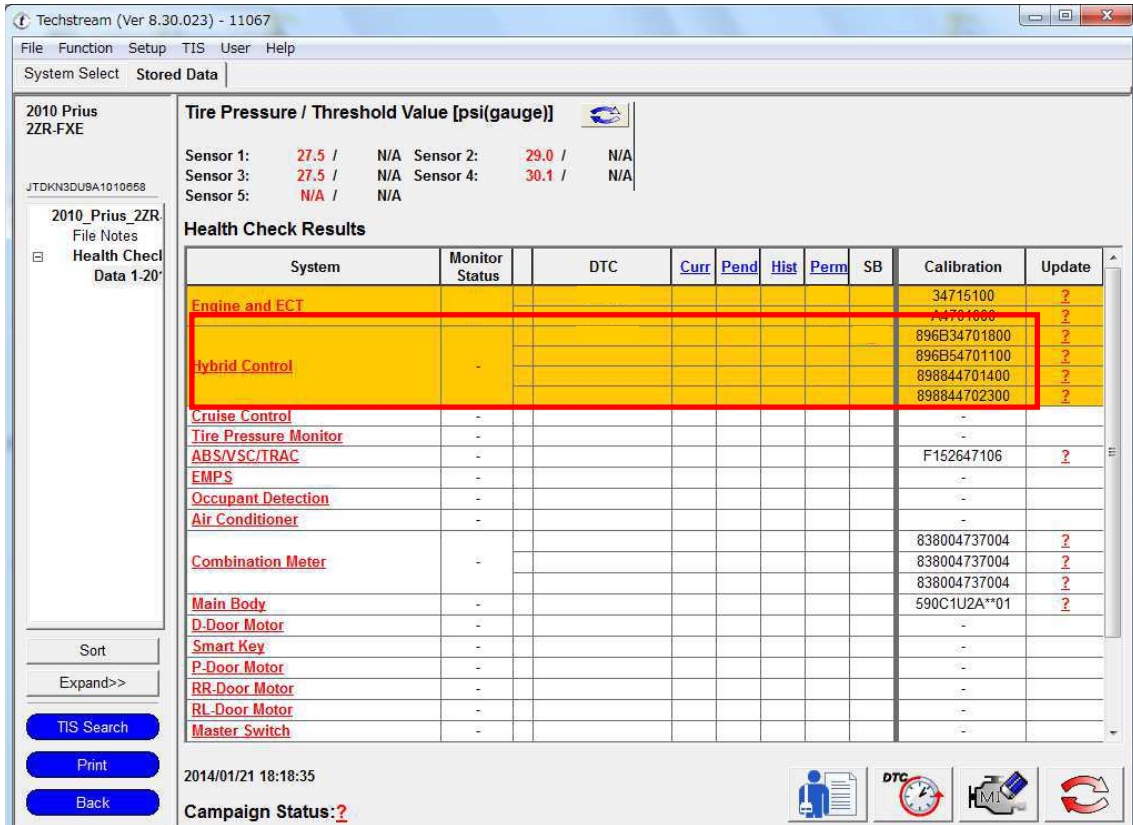
Table2. POWER MANAGEMENT ECU CID table

Model	Model Year	Production Date (an aim)	Current CID (To be reflashed)	New CID
Prius	2010MY	04/2009-10/2010	<Main> 896B34703000 896B34703100 896B34703200 896B34703300 896B34703400 896B34703500 896B34703600 896B34703700	898844703800
			<Sub> 896B54701000	896B54701100
	2011MY	11/2010-10/2011	<Main> 896B34716000 896B34716100 896B34716200 896B34716300	896B34716400
	2012MY	11/2011-09/2012	<Main> 896B34722000 896B34722100 896B34722200	896B34722300
	2013MY	10/2012-09/2013	<Main> 896B34738000 896B34738100	896B34738200
	2014MY	10/2013-02/2014	<Main> 896B34748000	896B34748100

<Note>

- POWER MANAGEMENT ECU to be reflashed only for main or sub ECU, depends on production period.
- CID will be displayed automatically from above table2.

<NOTE> The arrangement of CID is as follows.



Confirm the **POWER MANAGEMENT ECU CID**.

896B34701800	←	Power Management ECU CID (Main)
896B54701100	←	Power Management ECU CID (Sub)
898844701400	←	MG ECU CID (MG 1)
898844702300	←	MG ECU CID (MG 2)

5. REFLASH THE POWER MANAGEMENT ECU

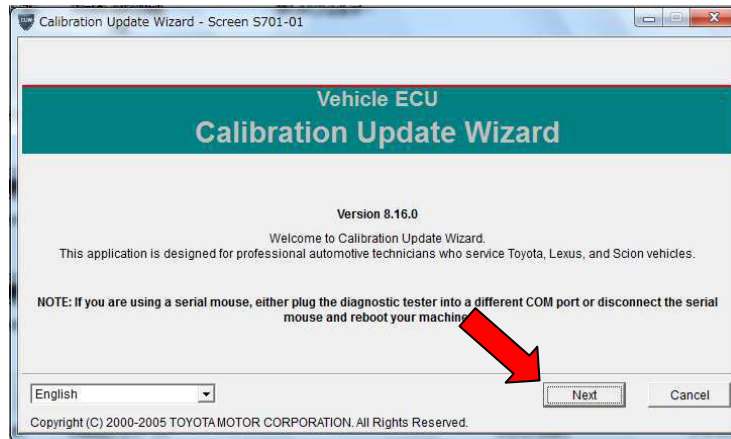
Reflash the power management ECU, following the procedures outlined in **(TSB-G0002)**, "REPROGRAMMING METHOD OF ECU". Please refer to the table above for the **NEW CID**.

1. CONFIRM THE BATTERY CONDITION

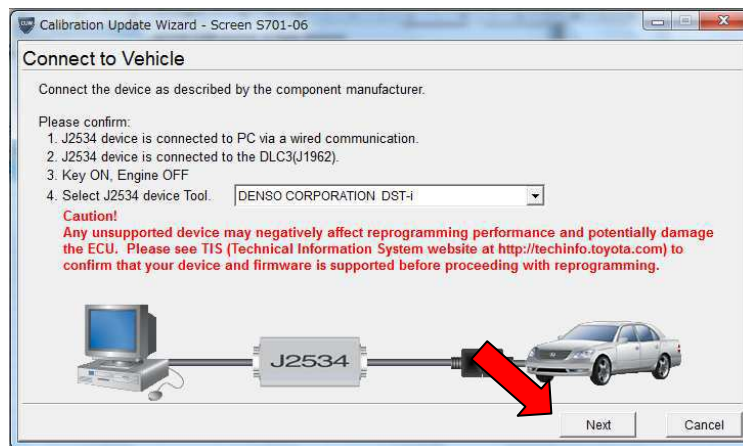
- Make sure that the battery voltage is more than 12V before starting to reprogram the ECU. If the battery voltage is below or just 12V, charge the battery.

2. REPROGRAM THE ECU

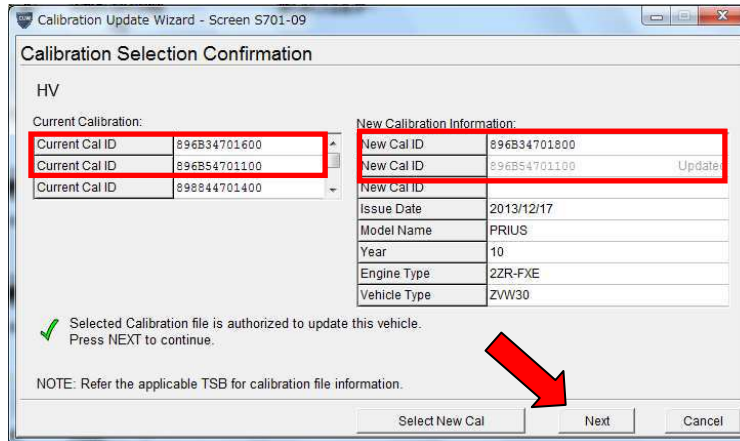
- a) Please confirm the **UPDATED** (new) calibration ID as mentioned in Table2.
 - b) Connect GTS to the DLC3.
 - c) Turn the engine switch ON (IG-ON).
(Push the Power button twice when the car is OFF – DO NOT operate the brake pedal.)
 - d) Reprogram the MG ECU with the newly designed software (CID).
- 1) Start the newly designed software.
See the above Table2.
 - 2) Click “Next”.



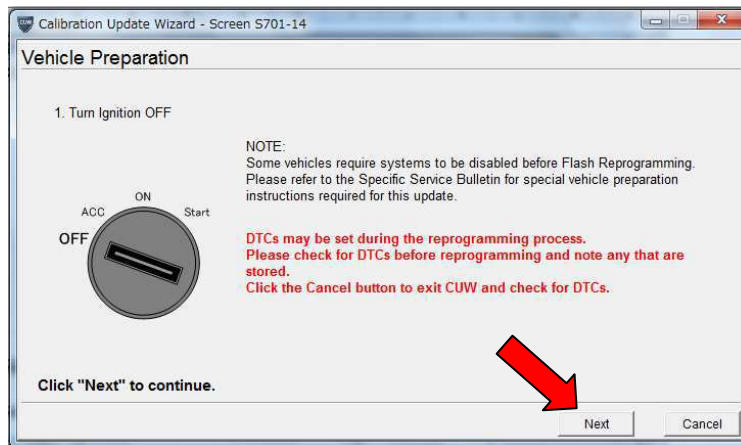
- 3) Click “Next”.
NOTE:
Confirm the car in “IG-ON” and GTS correctly connected to the DLC3.



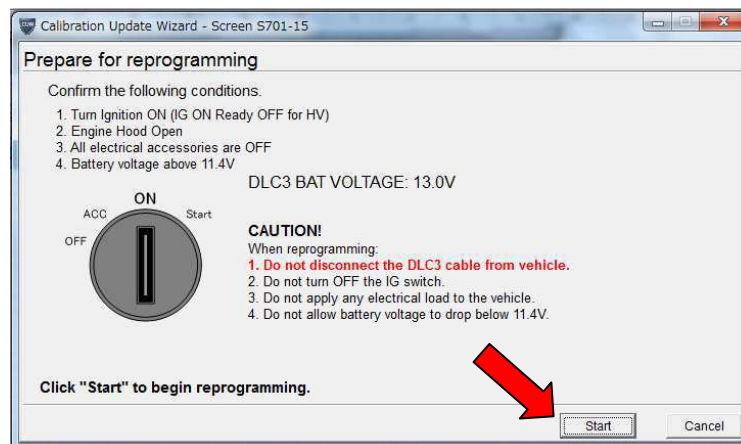
- 4) **Confirm Current Cal ID and New Cal ID, and then click “Next”.**
See the above Table2.



- 5) **Turn the engine switch off, and then click “Next”.**

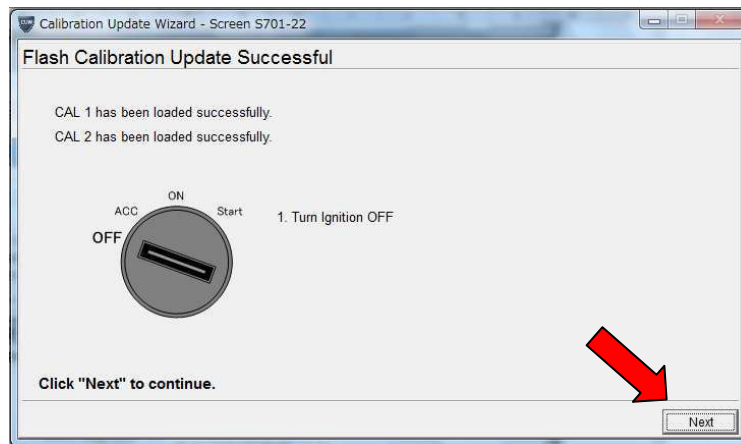


- 12). **Confirm the following condition.**
 ii). **Turn the engine switch ON (IG-ON).**
NOTE: DO NOT operate the brake pedal.
 ii). **All electrical accessories are OFF.**
 iii). **Battery voltage above 11.4V.**
 iv). **click “Start”**



13). **Software is being updated.
Please wait until it's completed.**

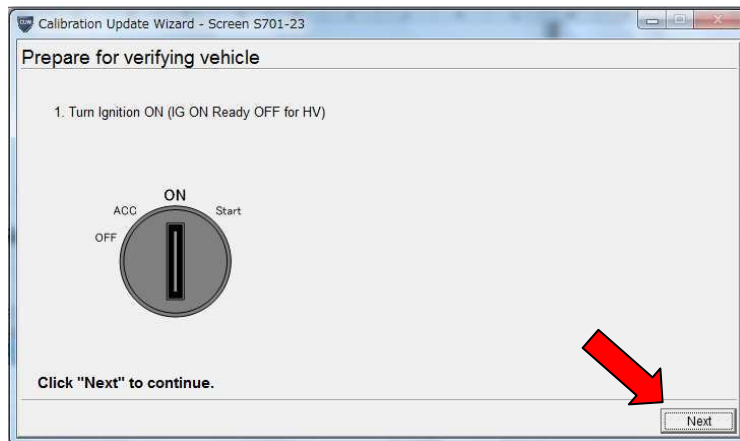
14). **Turn the engine switch off, and then click "Next".**



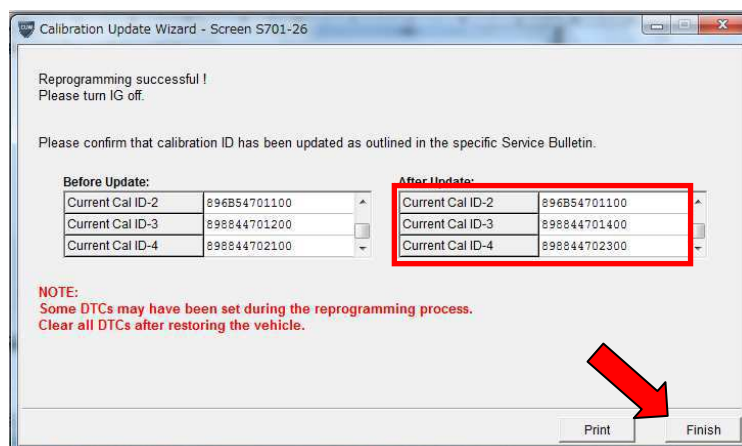
15). **Turn the engine switch on (IG-ON), and then click "Next".**

NOTE:

DO NOT operate the brake pedal.



16). **Confirm Current Cal ID after update, and then click "Finish".
See the above table2.**



6. CHECK FOR DTC CODES

- Return the fuse, with which CDS, RDI and HTR are united, to the engine room relay block.

NOTE:

Beware the direction of the fuse.

- Connect the GTS to the DLC3
- Check for DTC codes, and clear the DTC codes.

NOTE:

If any Pending, Current, and/or History DTCs are set, troubleshoot according to the repair manual.

- Perform a Health Check using the GTS. Save the file in order to be able to attach it to the Warranty claim.

Techstream (Ver 8.30.023) - 11067

File Function Setup TIS User Help

System Select Stored Data

2010 Prius ZZR-FXE
JTDKN3DU8A1010958

2010 Prius_ZZR
File Notes
Health Check
Data 1-20'

Sort
Expand>>
TIS Search
Print
Back

2014/01/21 18:18:35
Campaign Status: ?

Default User DLC 3

Tire Pressure / Threshold Value [psi(gauge)]

Sensor 1: 27.5 / N/A Sensor 2: 29.0 / N/A
Sensor 3: 27.5 / N/A Sensor 4: 30.1 / N/A
Sensor 5: N/A / N/A

Health Check Results

System	Monitor Status	DTC	Curr	Pend	Hist	Perm	SB	Calibration	Update
Engine and ECT	-							34715100 A4701000	?
Hybrid Control	-							896B34701800 896B54701100 898844701400 898844702300	?
Cruise Control	-							-	
Tire Pressure Monitor	-							-	
ABS/VSC/TRAC	-							F152647106	?
EMPS	-							-	
Occupant Detection	-							-	
Air Conditioner	-							-	
Combination Meter	-							838004737004 838004737004 838004737004	?
Main Body	-							590C1U2A**01	?
D-Door Motor	-							-	
Smart Key	-							-	
P-Door Motor	-							-	
RR-Door Motor	-							-	
RL-Door Motor	-							-	
Master Switch	-							-	

- TEST DRIVE THE VEHICLE AND INSPECT FOR ANY PROBLEMS

- CAMPAIGN COMPLETE -



Service bulletin

Section:	General
Ref. No.:	G-0002
Date:	Jan.,2012
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Area Application : Europe, General, G.C.C. Countries, Australia

Model Name : YARIS, YARIS VERSO, LIMO, IST, ECHO, ECHO VERSO, PLATZ, AYGO, VIOS, STARLET, RUSH, TOYOTA RAV4, TOYOTA RAV4 EV, TERCEL, PASEO, SOLUNA, COROLLA, COROLLA MATRIX, COROLLA VERSO, VERSO, COROLLA SPACIO, COROLLA ALTIS, AURIS, WISH, CORONA PREMIO, PRIUS, PRIUS PLUG-IN HYBRID, MR2, AVENSIS, CORONA, CARINA E, CORONA EXSIOR, CELICA, AVENSIS VERSO, PICNIC, CAMRY, CAMRY HV, CAMRY SOLARA, AURION, SUPRA, CRESSIDA, REIZ, AVALON, CROWN, CROWN COMFORT, TOYOTA CENTURY, VENZA, SCION xA, SCION xB, SCION tC, SCION xD, LITEACE, TOWNACE, SPACIA, VAN, PREVIA, TARAGO, SIENNA, HIACE, HIACE S.B.V., ALPHARD, DYNA 100/150, TOYOTA TACOMA, TRUCK, HILUX, HILUX SW4, HILUX VIGO, TOYOTA FORTUNER, 4RUNNER, TUV, STOUT, ZACE, TAMARAW FX, KIJANG, TOYOTA INNOVA, KIJANG INNOVA, STALLION, VENTURE, AVANZA, DYNA, LAND CRUISER, HIGHLANDER, HIGHLANDER HV, KLUGER, LAND CRUISER PRADO, LAND CRUISER 100, FJ CRUISER, COASTER, H.D. TRUCK, SEQUOIA, TOYOTA TUNDRA, TOYOTA T100, GRANDLUX, MEGA CRUISER, NOAH, iQ, URBAN CRUISER, RACTIS, RUKUS

Model Code : ALL MODELS

Subject : REPROGRAMMING METHOD OF ECU

This Service Bulletin contains information regarding using Global TechStream which is an addition to the information on ECU reprogramming method with the Intelligent Tester II that has already been published (Europe: EG-6006, General, Australia: EG-8011).

This Service Bulletins explains in general the engine ECU reprogramming method by using Intelligent Tester II or Global TechStream. Should you have to reprogram an ECU for any modifications, please always refer to the specific instructions delivered together with the Calibration ID files.

Part No. Information :

New Part No.	New Part Name	Qty
NA	NA	NA

Production Effective :

VIN	Production Date
NA	NA

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PREPARATION

Vehicles with an ECU that uses FLASH MEMORY

NECESSARY PARTS AND TOOLS (FOR INTELLIGENT TESTER II)

Part Or Tool Name	Remark Or Function
Authorized Modification Label (Part No. 89685-20010)	After reprogramming, this label should be attached on the ECU cover. This certifies that this modification to ECU software was done according to the manufacturer's specification.
Calibration Data file	This contains the modified ECU program that is provided from TMC.
CUW (Later)	This software is used to download the CAL data from PC to Intelligent Tester II.
Intelligent Tester II (software version later)	Reprogramming of the ECU
Personal Computer	Download the modified software to the Intelligent Tester II
USB cable	Connect the PC and Intelligent Tester II
Standard tools	-

NECESSARY PARTS AND TOOLS (FOR Global TechStream)

Part Or Tool Name	Remark Or Function
Authorized Modification Label (Part No. 89685-20010)	After reprogramming, this label should be attached on the ECU cover. This certifies that this modification to ECU software was done according to the manufacturer's specification.
Calibration Data file	This contains the modified ECU program that is provided from TMC.
CUW (Later)	The Calibration Update Wizard (CUW) is included with the Global TechStream software.
Vehicle Interface Module or J2534 Device	Reprogramming of the ECU
Personal Computer	Operate the CUW with a personal computer.
USB cable	Connect the PC and Vehicle interface module.
Standard tools	-

OPERATION FLOW CHART

NOTICE :

The procedures 3, 6 and 10 are only for diesel engines, so skip these procedures for non diesel engines.

1	CHECK WHETHER OR NOT VEHICLE VIN IS IN AFFECTED VIN RANGE (ALWAYS REFER TO SPECIFIC MODIFICATION REQUEST)
----------	--

NO	NO FURTHER ACTION IS NEEDED
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YES



2	USING INTELLIGENT TESTER II OR GLOBAL TECHSTREAM, CHECK IF ECU HAS ALREADY BEEN REPROGRAMMED FOR NEW CID
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YES	NO FURTHER ACTION IS NEEDED
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NO



3 READ CATALYST RECORD IF VEHICLE IS EQUIPPED WITH DPNR OR DPF

NOTICE :

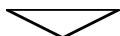
The catalyst thermal deterioration record should be saved before conducting the ECU reprogram. This will ensure that the correct records can be saved into a replacement ECU in case of a reprogramming failure. (Refer to the appropriate chapter in the vehicle repair manual for the detailed procedure).

NEXT



4 REPROGRAM ECU FOR NEW CID

NEXT



5 CHECK THAT REPROGRAMMING WAS SUCCESSFUL

NG



GO TO STEP 9

OK

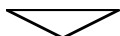


6 REMOVE EFI FUSE FOR MORE THAN 1 MINUTE IN ORDER TO RESET ENGINE ECU

HINT :

Alternatively, the cable from the negative (-) battery terminal can be disconnected for more than 1 minute.

NEXT



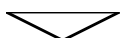
7 CONFIRM VEHICLE CONDITION AFTER REPROGRAMMING OF ECU

NEXT



8 ATTACH ENGINE CONTROL COMPUTER NAME LABEL ON ECU

NEXT



END

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9 REPLACE ENGINE ECU

NEXT

10 INPUT INJECTOR COMPENSATION CODES AND TRANSFER CATALYST RECORD TO NEW ECU

NOTICE :

If the injector compensation code is not correctly registered, it may cause malfunctions.

NEXT

11 USING INTELLIGENT TESTER II OR GLOBAL TECHSTREAM, CHECK IF ECU HAS ALREADY BEEN REPROGRAMMED FOR NEW CID

YES NO FURTHER ACTION IS NEEDED

NO

12 REPROGRAM ECU FOR NEW CID

NEXT

13 CONFIRM VEHICLE CONDITION AFTER REPROGRAMMING OF ECU

NEXT

14 ATTACH ENGINE CONTROL COMPUTER NAME LABEL ON ECU

NEXT

END

CAUTION

1. CAUTION FOR REPROGRAMMING

- (a) Do not disconnect the DLC3 cable from the vehicle while reprogramming the ECU.
- (b) Do not turn OFF the IG switch/Engine START push button while reprogramming the ECU.
- (c) Do not apply any electrical load to the vehicle while reprogramming the ECU (e.g. audio, room light, air conditioner, radiator fan, blower etc.). Fluctuation in the battery voltage is prohibited.
- (d) Do not push the brake pedal while reprogramming the ECU.

- (e) Firmly apply parking brake.
- (f) Make sure that the battery voltage is 12 V or more before starting to reprogram the ECU.
- (g) If the battery voltage is below or just 12 V, charge the battery.
Do not keep charging the battery while reprogramming. (Disconnect the charger from the battery.)
- (h) If the ECU is mounted in the engine room, confirm the hood is open and ensure under hood temperatures do not exceed 70°C (158°F).

WORK PROCEDURE (FOR INTELLIGENT TESTER II)

HINT :

This manual shows 2AD-FHV case.

- Current CID: 30551000
- New CID: 30551200

1. CHECK THE CURRENT ID OF THE ECU

- (a) Confirm whether the current ID of the ECU needs updating or not.

2. INSTALL THE CUW SOFTWARE TO YOUR PC

- (a) Prepare the necessary files.

- (1) Download/Copy the following files to any folder on your PC.

- (EG) CUWV6R1.exe

NOTICE :

Do not use lower version 6.1

- WinRTUSBDriver.exe
- xxxxxxxx-ii.cuw

- (b) Install CUW software.

- (1) Double click the "(EG)CUWV6R1.exe" icon shown in the illustration.

- (2) Click "Next" when the "Welcome to the install Shield Wizard for Calibration Update Wizard" is displayed.

- (3) Click "Finish" when the "Install Shield Wizard Complete" message is displayed.

- (c) Install USB driver.

- (1) Double-click on "WinRTUSBDriver.exe" shown in the illustration.

- (2) Click "Next" when the "Welcome to the Install Shield Wizard for WinRTUSBDriver" is displayed.

A142036

- (3) Click "Finish" when the "Install Shield Wizard Complete" message is displayed.

A142037

3. DOWNLOAD CALIBRATION DATA FROM PC TO INTELLIGENT TESTER II

- (a) Connect PC and intelligent tester II with a USB cable.

- (b) Turn on intelligent tester II.

- (c) Download calibration data.

- (1) Double-click on the "xxxxxxx-ii.cuw" file as shown in the illustration.

NOTICE :

The file name on the illustration is only an example.

- (2) Click "Next".
- (3) Select "Intelligent Tester II" and click "Next".
- (4) If all connections are confirmed and found OK, click "Next".
- (5) Confirm the vehicle model and calibration ID, then click "Next".

Example for 2AD-FHV^{A142043}

Cal ID: 30551200

NOTICE :

If there is no sufficient space in the Internal Memory of the Intelligent Tester II, you will receive a warning message on the top of the screen. In such case, the "Send" button will not appear, but a "Delete"^{A142045}. Select the file you want to remove from your intelligent Tester II, and push "Delete". Once the memory space is sufficient to download the software, the "Send" button will appear, and you can continue downloading.

- (6) Click "Send".
 - (7) Click "OK".
 - (8) Turn OFF the Intelligent Tester II.
- NOTICE :**
With this operation, new software download from PC to Intelligent Tester II has been completed.
- (d) Check download data.
 - (1) Turn ON the Intelligent Tester II.
 - (2) Push "Utility" button on the display.
 - (3) Push "ECU Reprogramming".
 - (4) Select "Calibration File Manager" and then push "Enter".
 - (5) Select the correct file according to the vehicle type you should reprogram, and then push "Open".

HINT :

Example for 2AD-FHV:

- Model Name: AVENSIS D-CAT
- L/O: 05
- Engine Type: 2AD-FHV
- Vehicle Type: ADT251
- Sub System: Engine and ECT

The illustration on the left is only to illustrate Calibration File Information screen. The actual screen depends on the software you are going to upload.

- (6) Confirm Calibration ID.

Example for 2AD-FHV:

Cal ID: 30551200

- (7) Turn OFF the Intelligent Tester II.

4. REPROGRAMMING THE ECU

□

NOTICE :

Errors during the flash reprogramming process can permanently damage the ECU. Minimize the risks by following the steps mentioned below.

- **Confirm battery voltage is between 12 and 14 V.**
- **If the battery voltage is below or just 12 V, charge the battery.**
Do not keep charging the battery while reprogramming. (Disconnect the charger from the battery.)
- **Turn off all electrical components (audio system, heater, defogger, power window, etc.).**
- **Do not apply any electrical load while reprogramming (fluctuation in battery voltage is prohibited).**
- **Close the vehicle doors.**
- **Do not perform any of the following actions while reprogramming: (Stop the procedure, operate the Ignition/Power switch.)**
- **Firmly apply the parking brake.**
- **If the engine ECU is mounted in the engine room, confirm the hood is open and ensure under hood temperatures do not exceed 70°C (158°F).**

- (a) Disconnect cooling fan motor connector(s).

HINT :

This ensures the fan will not start while reprogramming.

- (b) Connect Intelligent Tester II to DLC3.
(c) Turn on intelligent tester II.
(d) Confirm current calibration ID in the engine ECU.

- (1) Push "Utility".

□

- (2) Select "ECU Reprogramming".

□

- (3) Select "Engine and ECT".

□

- (4) Select "Current Vehicle Calibration ID" and push "Enter".

-
- (5) Insert the key to the ignition switch and turn "IG ON".

NOTICE :

Do not start the engine.

- (6) Push "Next".

-
- (7) Confirm if the calibration ID displayed on the screen is equivalent to the old Calibration ID number of the vehicle that you are going to reprogram.

Example for 2AD-FHV

Calibration ID: 30551000

□

HINT :

- All other calibration IDs (except the one above) do not need to be considered.
- If other calibration ID is displayed instead of the old Calibration ID of the vehicle that you are going to reprogram, do not reprogram.

- (8) Push "Exit".

- (e) Reprogram ECU.

- (1) Select "Reprogramming" and push "Enter".

A142058

-
- (2) Push "Next".

-
- (3) Follow all the instructions indicated on the display.

A142059

□

HINT :

Example:

- Ignition switch OFF.
- All electrical accessories are OFF.
- Others

- (4) Push "Next".

- (5) Select the calibration file to update (vehicle model that you are going to reprogram) and push "Next".

A143970

□

Example

A143971

AVENSIS '05 (2AD-FHV)

- (6) Select "Calibration ID" and push "Next".

A142060

□

HINT :

- Example for 2AD-FHV
New Calibration ID: 30551200
- When the reprogramming is completed, "YES" will be indicated in "Update" column.

- (7) Select "Calibration ID" and push "Next".

Example for 2AD-FHV
Current Calibration ID: 30551000

- (8) Turn ignition switch ON, but do NOT start the engine. After IG ON, push "Next".
- (9) If the error message shown in the illustration on the left is displayed, charge the battery and perform reprogramming again.
- (10) After completing reprogramming, turn the ignition switch OFF.
- (11) Push "Next".
- (f) Reconfirm calibration ID in engine ECU.
- (1) Select "Current Vehicle Calibration ID".
- (2) Push "Enter".
- (3) Turn the ignition switch ON.
- (4) Push "Next".
- (5) Confirm if the new Calibration ID appears on the tester screen.

HINT :

Example for 2AD-FHV
New Calibration ID: 30551200

- (6) Push "Exit".
- (g) Clear DTC.

NOTICE :

After reprogramming the ECU, certain DTCs might be stored. These should be cleared.

- (1) Check that the transmission is in Neutral (or in case of automatic transmission in P).
- (2) Turn on the Intelligent Tester II.
- (3) Turn ignition switch ON.
- (4) Check for DTCs by Intelligent Tester II.
- (5) Confirm all "History" systems show "OK" status, then push "Exit". If not, push "Clear All".
- (h) Connect the removed fan motor connector(s).

WORK PROCEDURE (FOR Global TechStream)

NOTICE :

Errors during the flash reprogramming process can permanently damage the ECU. Minimize the risks by following the steps mentioned below.

- Confirm battery voltage is between 12 and 14 V.
- If the battery voltage is below or just 12 V, charge the battery.
Do not keep charging the battery while reprogramming. (Disconnect the charger from the battery.)
- Turn off all electrical components (audio system, heater, defogger, power window, etc.).
- Do not apply any electrical load while reprogramming (fluctuation in battery voltage is prohibited).
- Close the vehicle doors.

- **Do not perform any of the following actions while reprogramming: (Stop the procedure, operate the Ignition/Power switch.)**
- **Firmly apply the parking brake.**
- **If the ECU is mounted in the engine room, confirm the hood is open and ensure under hood temperatures do not exceed 70°C (158°F).**

1. CHECK THE CURRENT ID OF THE ECU

- (a) Connect the Vehicle Interface Module (hereafter referred to as VIM) or the J2534 device to the personal computer (hereafter referred to as PC) used for diagnostics.
- (b) Connect the VIM or the J2534 device to the DLC3.
- (c) Turn the ignition ON.

NOTICE :

- **Make sure that the engine is OFF.**
- **Make sure that the READY is OFF (for hybrid vehicles).**
- (d) Click the "Connect to Vehicle" button.
- (e) Select the applicable option and click the "Next" button.
- (f) Click the "ECU Reprogramming" button.
- (g) Select available ECU(s) from the Calibration Update Check List.
- (h) Click the arrow button (bottom right of screen).
- (i) Confirm whether the current calibration ID of the ECU needs updating or not.

HINT :

The calibration displayed on the screen is the current calibration ID.
Compare this with the Service Bulletin to determine whether or not it needs to be updated.

- (j) Click the "Close" button.
- (k) Click the "Main Menu" button to return to the main menu.

2. MAKE THE NECESSARY PREPARATIONS FOR REPROGRAMMING

- (a) Make sure that the battery installed in the vehicle is sufficiently recharged.
- (b) Follow the "Service Bulletin" as displayed for each vehicle for detailed instructions about things like removing connectors.
- (c) Connect the DC plug of the AC adapter to the PC used for diagnostics.
- (d) Connect the AC cable to the AC adapter and insert the AC plug into the AC socket.
- (e) Confirm the DTCs.

NOTICE :

A256245

**It is possible that DTCs will be recorded while reprogramming.
Please check the DTCs before reprogramming. If DTCs are found, please write them down.**

3. REPROGRAMMING THE ECU

□

- (a) Double-click the applicable ECU calibration data.
- (b) When the Calibration Update Wizard finishes starting up, click the "Next" button.

□

- (c) Select "J2534 device" and click the "Next" button.

□

NOTICE :

Make sure that the ignition is ON.

- (d) Make sure that the current calibration ID and the new calibration ID are both correct. If they are correct, click the "Next" button.

□

A237283

- (e) Turn the ignition OFF and click the "Next" button.

□

A256248

NOTICE :

Clicking "Next" will activate the progress bar.

Do not turn the ignition ON while the progress bar is moving.

- (f) Turn the ignition ON and click the "Start" button.

□

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NOTICE :

- **Make sure that the engine is OFF.**
- **Make sure that READY is OFF (for hybrid vehicles).**

- (g) The screen on the left will be displayed while the program is automatically reprogrammed. The estimated reprogramming time is the time it takes to reprogram one program.

□

HINT :

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When reprogramming multiple programs, carry out operations according to the instructions on the screen.

- (h) When all of the programs have been successfully reprogrammed, turn the ignition OFF and click the "Next" button.

□

NOTICE :

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Clicking "Next" will activate the progress bar.

Do not turn the ignition ON while the progress bar is moving.

- (i) Turn the ignition ON and click the "Next" button.

□

NOTICE :

- **Make sure that the engine is OFF.**
- **Make sure that READY is OFF (for hybrid vehicles).**

- (j) After the reprogramming is completed, make sure that the post-reprogramming calibration ID is correct, and then click the "Finish" button.

Service bulletin

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□

(k) Clear the DTCs.

A237295

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