

NOTE: THIS LSC EXPIRES ON May 31, 2019

TECHNICAL INSTRUCTIONS

FOR

LIMITED SERVICE CAMPAIGN G0T

SOFTWARE UPDATE FOR COMBINATION METER

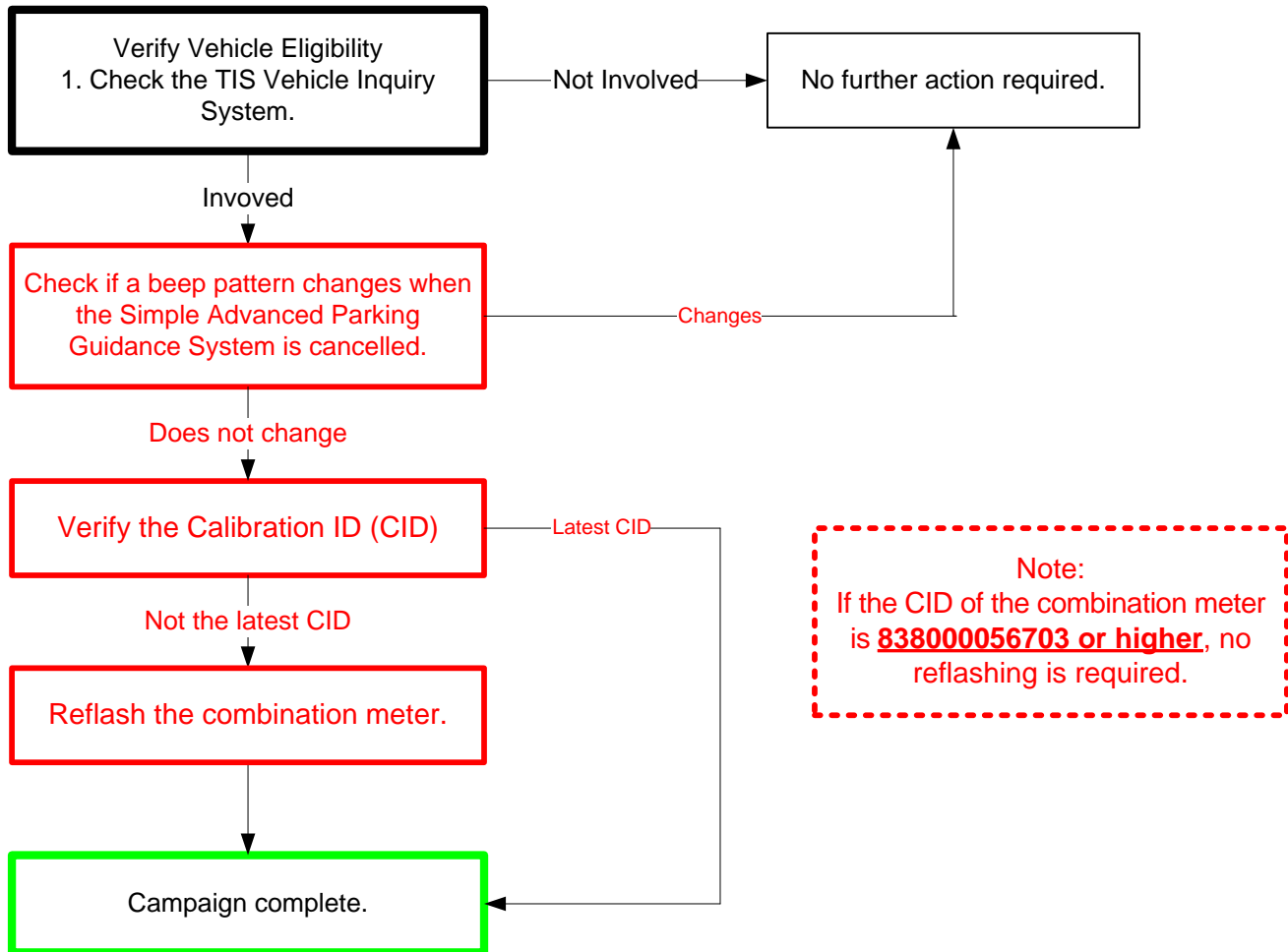
CERTAIN 2016 MODEL YEAR PRIUS

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 repair are required to currently hold at least one of the following certification levels:

- Certified Technician (Any specialty)
- Expert Technician (Any specialty)
- Master Technician
- Master Diagnostic Technician

Always check which technicians can perform the recall remedy by logging on to <https://www.uotdealerreports.com>. It is the dealership’s responsibility to select technicians with the above certification level or greater 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



Note: This campaign only covers reflashing. Any additional repairs are not covered under this campaign and must be done under regular warranty.

II. IDENTIFICATION OF AFFECTED VEHICLES

A. AFFECTED VIN RANGE

Notes:

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Limited Service Campaign, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS 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 necessary to complete this LSC.

B. TOOLS & EQUIPMENT

- Techstream 2.0 / TIS Techstream /Techstream Lite (Software **V11.10.034** or Higher)
- GR8 Battery Diagnostic Station

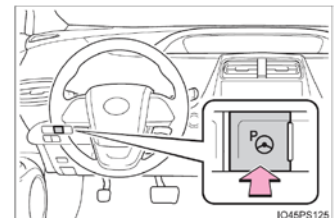
IV. BACKGROUND

In the involved vehicles, the S-APGS (Simple Advanced Parking Guidance System) buzzer may not sound as designed to alert the driver to stop the vehicle during back-in assist parking mode and parallel parking mode. However, the stop indicator displays correctly on the multi-information display to alert the driver to stop the vehicle.

V. COMBINATION METER CALIBRATION ID VERIFICATION

1. CHECK IF A BEEP PATTERN CHANGES WHEN THE SIMPLE ADVANCED PARKING GUIDANCE SYSTEM (S-APGS) IS CANCELLED

- Turn the power switch on (READY).
- Ensure brake pedal is depressed.
- Move the shift knob to R.
- Push the S-APGS switch.
- Check that a beep pattern changes.



Note: When you press the **S-APGS** button the system should:

- **sound two rapid beeps**
- **Then return to normal beep frequency this indicates that the system is OK.**

Result		Action Required
NG	<p>Does NOT change</p> <p>Beep Pattern: ON, OFF</p> <p>Shift Position: R, N</p> <p>S-APGS Switch: ON, OFF</p> <p style="text-align: right;">S07024bS</p>	Combination Meter has to be reprogrammed
OK	<p>Changes</p> <p>Beep Pattern: ON, OFF</p> <p>Shift Position: R, N</p> <p>S-APGS Switch: ON, OFF</p> <p style="text-align: right;">S07023bS</p>	Combination Meter does NOT need reprogramming

System	Monitor Status	DTC	Calr. Code	Exel. Time	Time Failed	Calibration	Update
CRASH DATA	-	-	-	-	-	86464781200	2
CRASH DATA	-	-	-	-	-	86464781200	2
Front Recognition Camera	-	-	-	-	-	88654781201	2
Air Conditioner	-	-	-	-	-	838000056701	2
Combination Meter	-	-	-	-	-	838000056701	2
Master Body	-	-	-	-	-	838000056701	2
L-Door Motor	-	-	-	-	-	82247811005	2
Smart Key	-	-	-	-	-	-	-
R-Door Motor	-	-	-	-	-	-	-
DR-Door Motor	-	-	-	-	-	-	-
DL-Door Motor	-	-	-	-	-	-	-
Master Switch	-	-	-	-	-	-	-

Calibration	Uj
-	-
8646	01200
8646	01200
8865	01201
838000056701	
838000063901	
838000056501	

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2. CONFIRM THE COMBINATION METER CALIBRATION ID

- a) Perform a Health Check.
- b) Confirm the current calibration ID (CID) in the Combination Meter.

Model	Model Year	Previous CID	Latest CID
Prius	2016	838000056701	<u>838000056703</u>

Note:

If the combination meter (CID) is **838000056703** or higher, no reflashing is required.

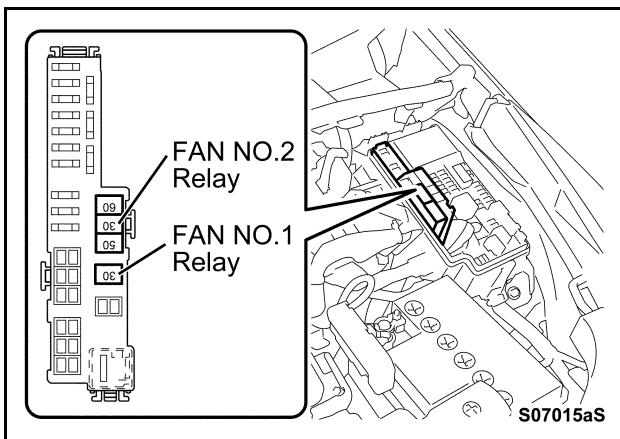
VI. COMBINATION METER REFLASH PROCEDURE

1. PREPARE THE VEHICLE FOR REFLASHING PROGRAM

- a) Prior to vehicle shut down, ensure the following conditions:
 - **Vehicle in the ready or on position**
 - **Transaxle in the P range**
 - **Parking brake engaged**
- b) Depress the brake pedal fully **2** times within **2** seconds and then release it.
- c) Wait 10 seconds.
- d) Turn off the vehicle.

Note:

This procedure will pressurize the brake actuator and prevent the brake booster pump from operating while the reflash procedure is in process.



2. REMOVE FAN RELAYS FROM THE RELAY BLOCK

- a) Remove the FAN No.1 and No.2 relays (30A).



If not removed, the cooling fans will operate and reduce battery voltage causing reprogramming failure.



- For general reprogramming procedures, refer to [T-SB-0012-13](#).
- Confirm the latest version of Techstream software is being used.
- If the Techstream does not have sufficient battery power the reflash will fail.
- Confirm the DLC3 cable is in good condition before attempting reflash.
- If vehicle exhibits any trouble codes or drivability symptoms, diagnose and repair using TIS before attempting to reprogram the ECM.

3. CONNECT THE GR8

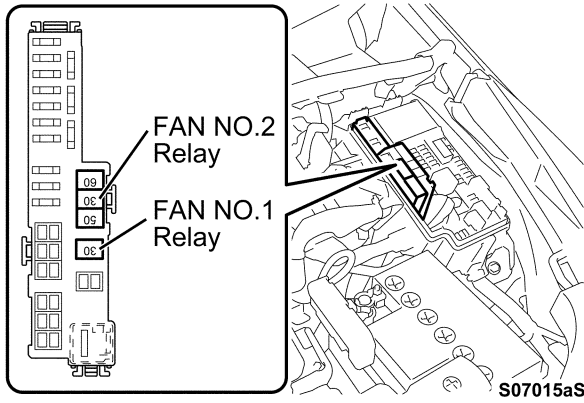
- a) Set the GR8 to Power Supply Mode to maintain 13.5 volts during Combination Meter reprogramming.
- b) The charger must be connected directly to the battery and **NOT** the remote jump post under the hood.



- A battery charger set to power supply mode **MUST** be used during reprogramming.
- Combination Meter damage may occur if the correct battery charger setting is not used.

4. REFLASH THE COMBINATION METER

[Refer to T-SB-0012-13](#)



5. DISCONNECT THE GR8
6. REINSTALL THE RELAYS TO THE RELAY BLOCK

VII. PERFORM A HEALTH CHECK AND CLEAR DTCs



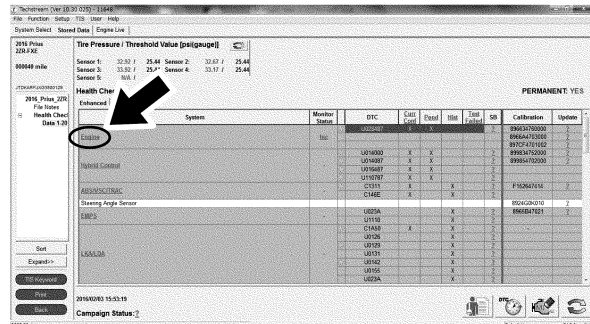
- DTC U028487 is always accompanied by reprogramming. Thus, clear it (Permanent DTC) first before clearing other DTCs.
- DO NOT disconnect the negative terminal cable from the auxiliary battery.

1. CHECK DTC's

- a) Perform a Health Check on the vehicle.

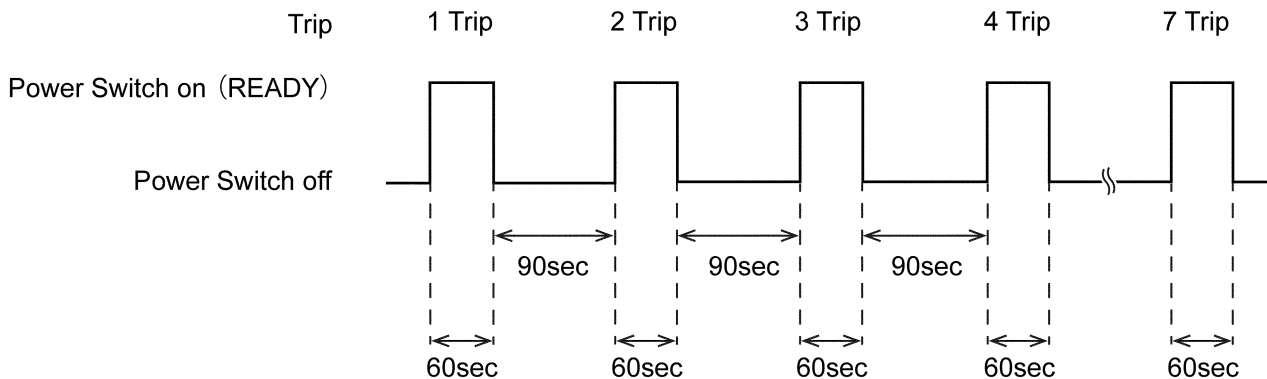
2. CLEAR PERMANENT DTC's

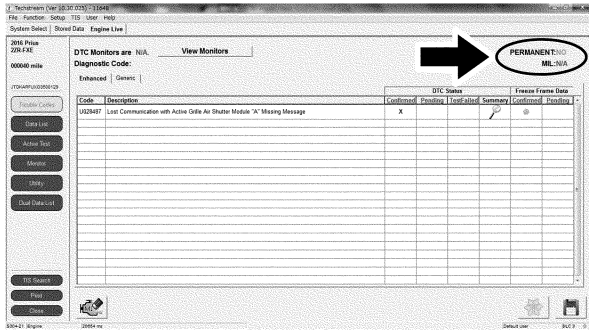
- a) Click on "Engine"



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- b) Turn the power switch on (READY), and wait for 60 seconds.
- c) Turn the power switch off, and wait for 90 seconds.

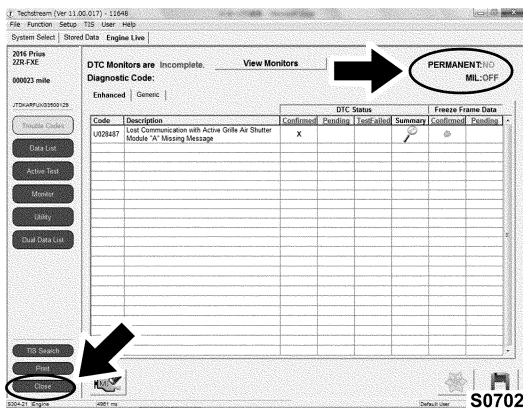




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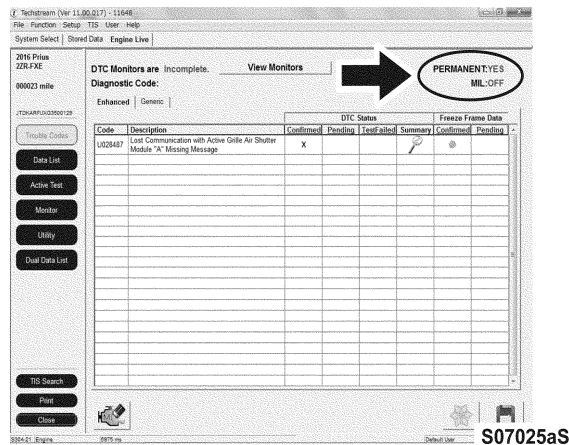
Note:

“PERMANENT” and “MIL” indicators change in 90 seconds after the power switch is turned off.




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- d) Turn the power switch on (READY) again.
- e) Repeat steps (b) and (c) instructed above until “PERMANENT” and “MIL”, which are provided in the top right of the screen, show “NO” and “OFF” respectively.
- f) Turn the power switch off.
- g) Turn the power switch on (IG).
- h) Click on “Close.”



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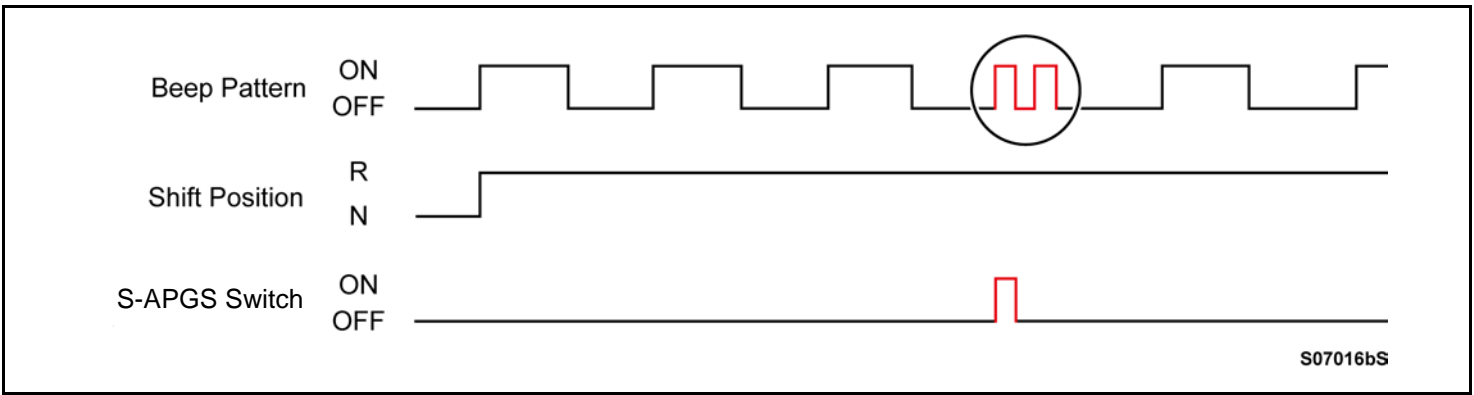
If “PERMANENT” and “MIL” show “YES” and “OFF” respectively go to “APPENDIX”, step A.

3. CLEAR ALL DTCs

- a) Clear DTCs that have been set during the reflash procedure

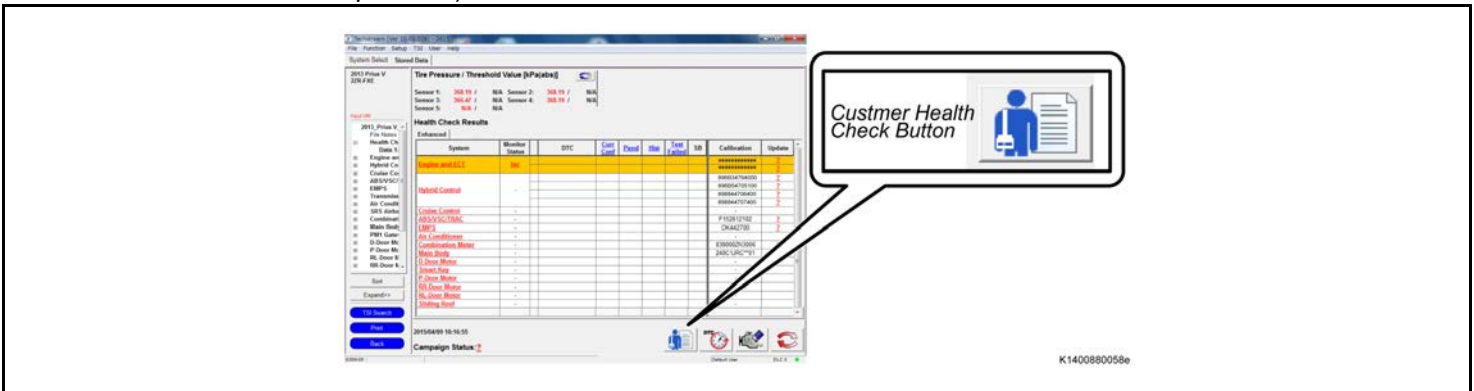
4. CHECK THAT A BEEP PATTERN CHANGES

- a) Turn the power switch on (READY).
- b) Ensure brake pedal is depressed.
- c) Move the shift knob to R.
- d) Push the S-APGS switch.
- e) Check that a beep pattern changes.

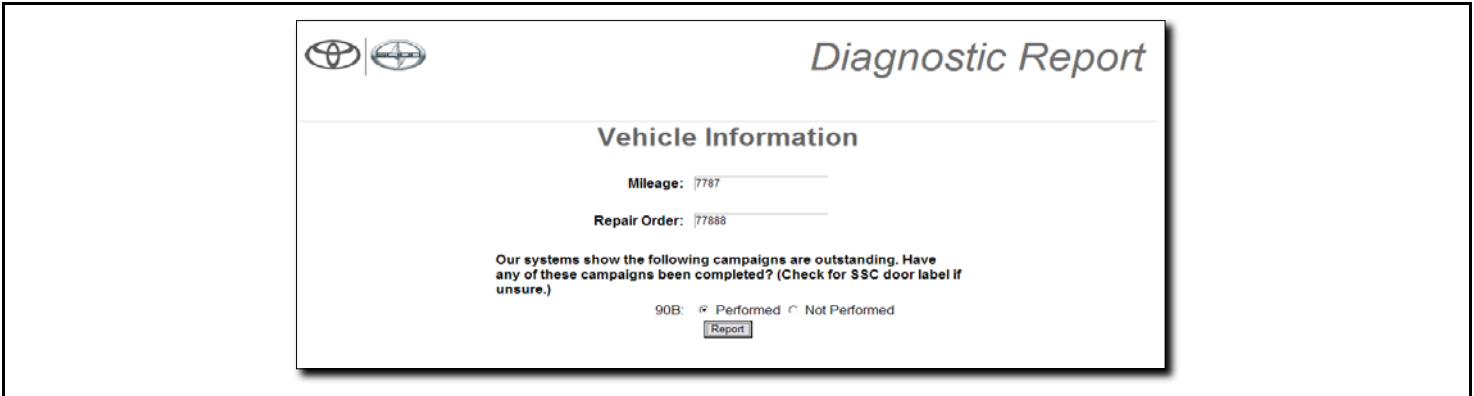


5. PRINT A CUSTOMER HEALTH CHECK REPORT

- a) From the Health Check Results screen select the Customer Health Check Report button (TIS will launch when the button is pressed).



- b) Log in to TIS.
- c) Input Vehicle Mileage and Repair Order number.
- d) Check the “Performed” campaign radio button for the applicable campaigns completed during this service event.
- e) Select the Report button.



- f) Confirm Customer Health Check Report information is correct.



Diagnostic Report

Vehicle Information

Vehicle: 2013 Prius
Repair Order: 12345

VIN: JTDKN3DU7D1615492

Mileage: 13672

Health Check Summary

Checkpoints	Status	Comments
Powertrain	All systems OK	
Chassis	All systems OK	
Electrical	All systems OK	
Network Systems	All systems OK	
Service Campaigns	No Action Required	E0E Performed

Performed: 02/20/14, 4:36 PM (PST)

Technician Signature

Quality Inspector Signature

◀ VERIFY REPAIR QUALITY ▶

- Ensure latest CID is programmed into the combination meter.
- Verify correct beeper operation.

If you have any questions regarding this update, please contact your regional representative.

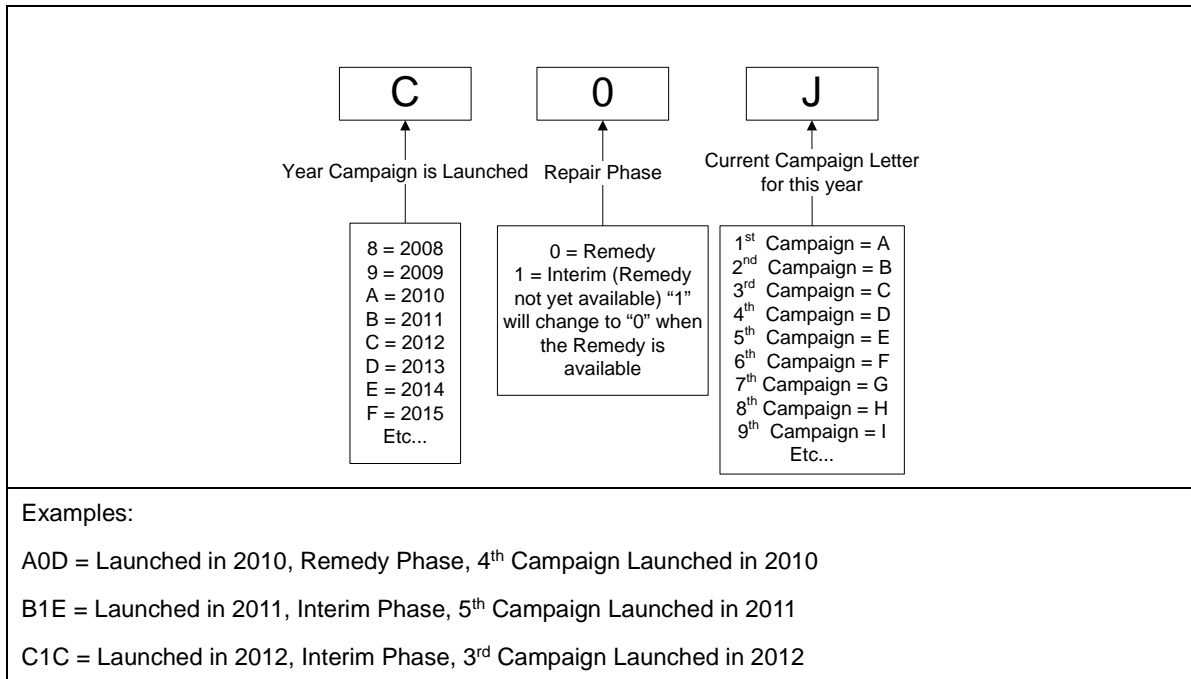
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VIII. APPENDIX

A. IF “PERMANENT” “MIL” SHOW “YES” AND “OFF”

- Put the engine in Inspection Mode (Maintenance Mode).
 - Connect the Techstream to the DLC3.
 - Turn the power switch on (IG).
 - Turn the Techstream on.
 - Enter following menus: Powertrain / Hybrid Control / Utility / Inspection Mode - 2WD for measuring Exhaust Gas.
 - Check that “2WD MAINTENANCE MODE” is displayed on the multi-information display.
 - Start the engine by turning the power switch on (READY) while depressing the brake pedal.
- Idle the engine for 30 seconds or more.
- With the engine running, drive the vehicle at 40 km/h (25 mph) or more for a total of 5 minutes or more.
- Allow 10 minutes or more to elapse from the time the engine is started.

B. CAMPAIGN DESIGNATION DECODER



C. CAMPAIGN PARTS DISPOSAL

As required by Federal Regulations, please make sure all campaign parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***