

TECHNICAL INSTRUCTIONS
FOR
SAFETY (NONCOMPLIANCE) RECALL 22TA07

**Panoramic View Monitor System – Potential Failure to Display Rearview
Image**

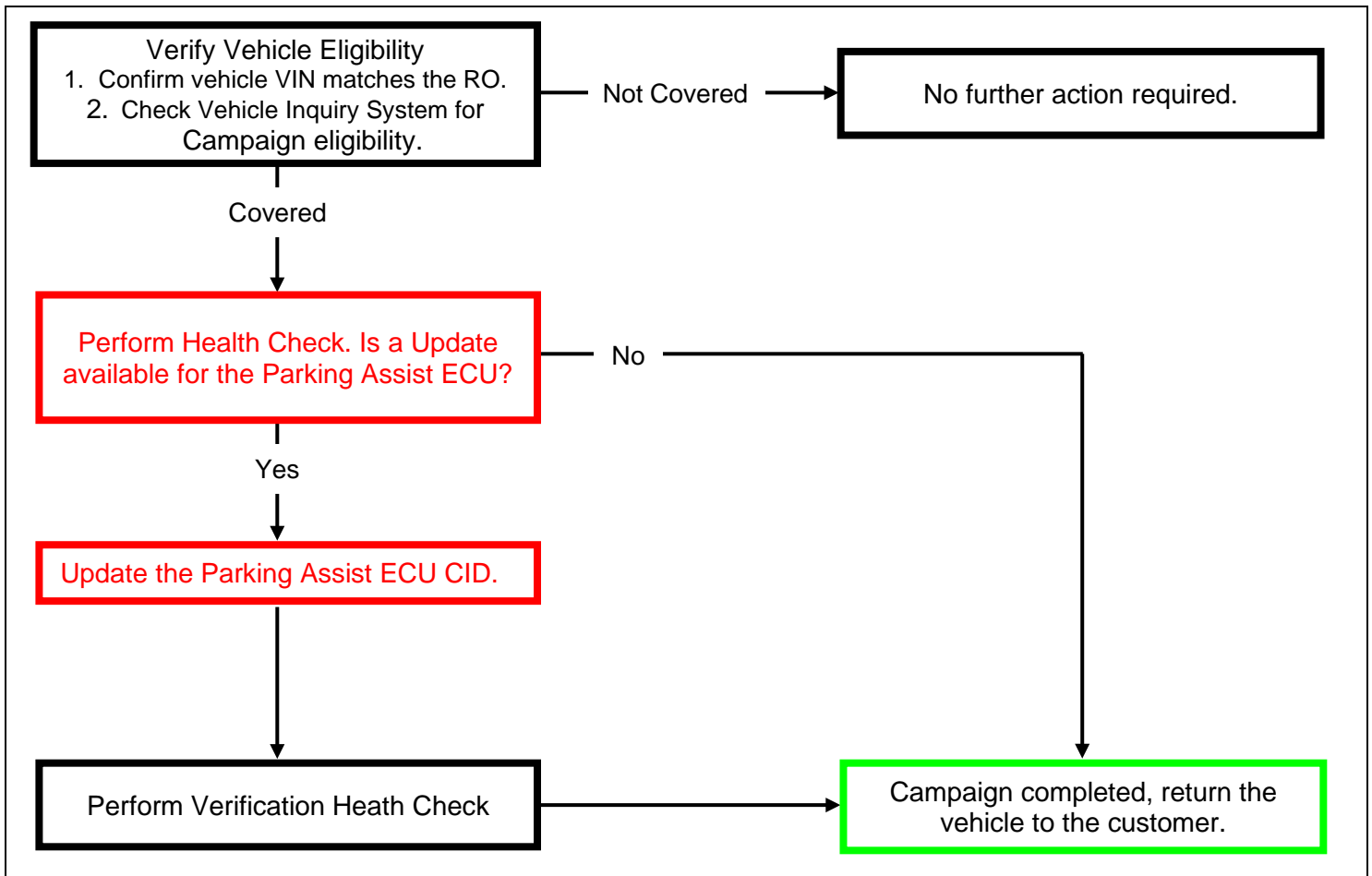
Certain 2022 Model Year Tundra + Tundra HV

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this special service campaign 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 special service campaign repair are required to currently have completed all of the following courses:

-T623 Electrical Circuit Diagnosis

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

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were completed by another dealer.

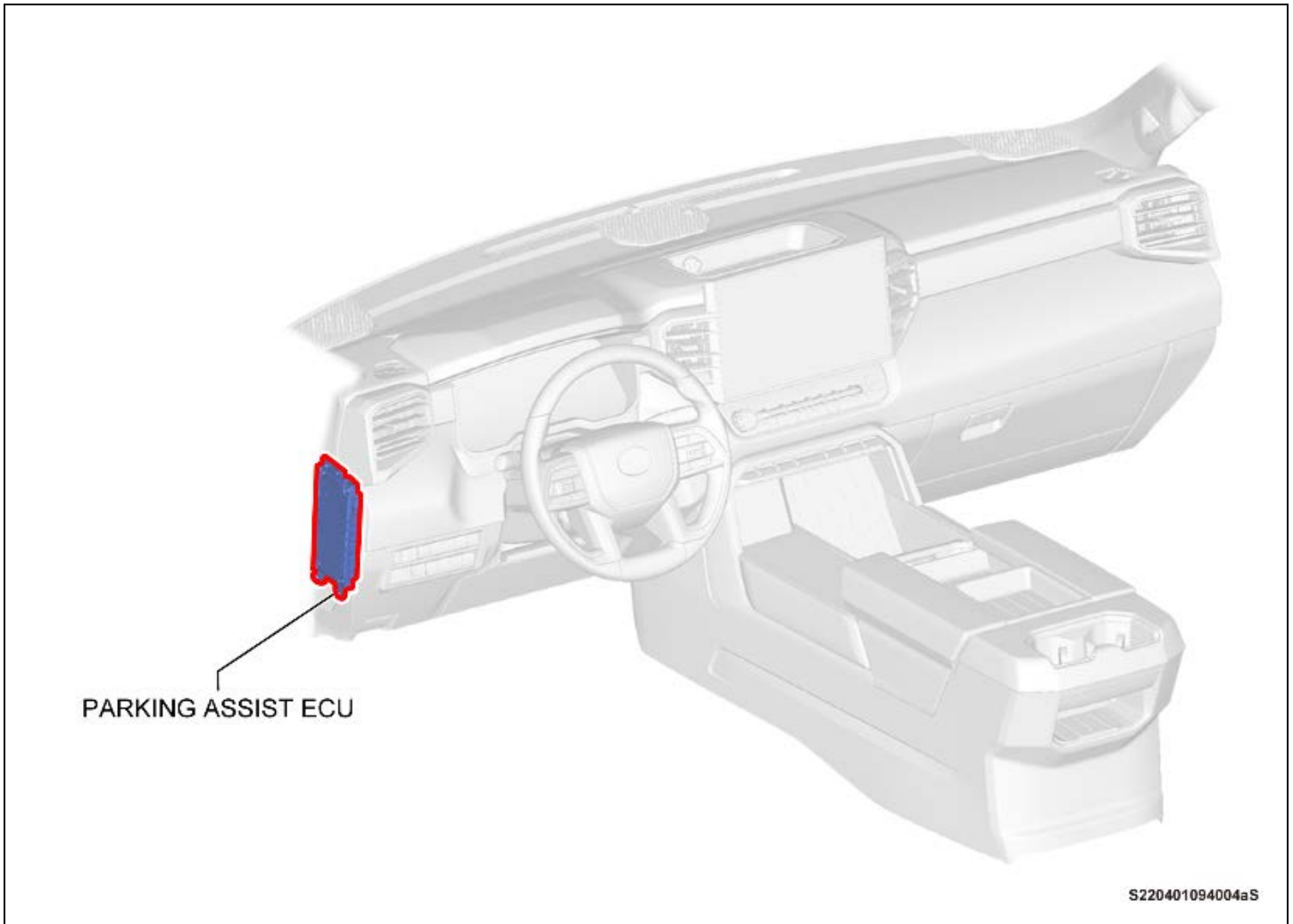
III. PREPARATION

A. TOOLS, SUPPLIES & EQUIPMENT

- Techstream ADVi / Techstream 2.0 / Techstream Lite
- DCA-8000P Battery Diagnostic Tool

IV. BACKGROUND

- b. In the affected vehicles, a software programming issue can cause the front camera image of the Panoramic View Monitoring (PVM) system to display instead of the rear camera image when the vehicle is placed into reverse position. If the rear camera image does not display after the vehicle is placed into reverse position, the vehicle will not comply with certain U.S. safety requirements and may increase the risk of a crash during a backing event.



V. DETERMINE STATUS OF CURRENT CALIBRATION

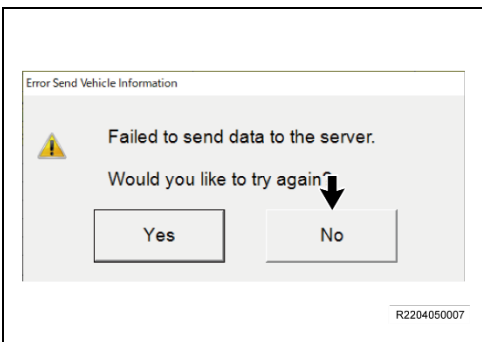


1. CHECK FOR DTC'S

- a. Using a Techstream, perform a Health Check to check for any Diagnostic Trouble Codes.

Notice:

This Campaign covers only the Calibration ID update to the Circumference Monitoring Camera Control Module, as detailed in these instructions. It does not cover the diagnosis or replacement of any other issues on the vehicle.



Notice:

Before completing Health Check, "Send Vehicle Information" window may be displayed. If displayed, then click "Yes" to send the vehicle information.

- *If "Failed to send data to the server" is displayed, click "No" to close the window and proceed to the next step.*

2. CHECK CURRENT CALIBRATION

- Locate the **Update** column for the **Circumference Monitoring Camera Control Module** in the **Stored Data** tab for this vehicle.
- Determine the status of an available update for the Circumference Monitoring Camera Control Module; indicated by a YES or NO.

2022 Tundra
V35A-FTS

001565 mile

2022_Tundra_V:
File Notes
Health Check
Data 1-4/1
Data 2-4/1

Sort

Expand>>

TIS Search

Print

Back

Tire Pressure / Threshold Value [psi(gauge)]

Sensor 1: 38.91 / 27.68 Sensor 2: 38.91 / 27.68
 Sensor 3: 32.42 / 27.68 Sensor 4: 38.16 / 27.68
 Sensor 5: N/A / N/A

Health Check Results

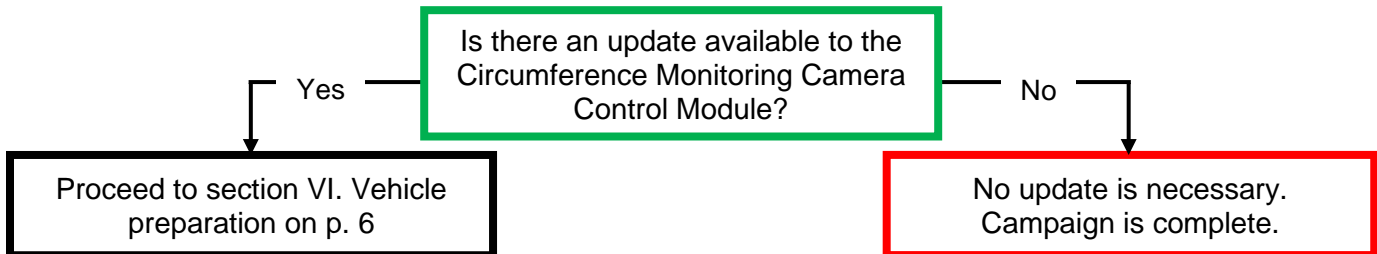
- Health Check does not display live data.
- Changes in vehicle condition will not update automatically.
- To update Health Check, click the Refresh button on the bottom of the Health Check screen.

Campaign Status **Yes**
PERMANENT: **NO**

ECU Security Key: -

Enhanced | Generic

DTC Related Information								RoB	Calibration	Update	Configure
System	Monitor Status	DTC	Curr Conf	Pend	Hist	Test Failed					
Tire Pressure Monitor	-						●	897AF0101300	No	No	
Circumference Monitoring Camera Control Module	-						●	8679F0C01105	Yes	No	
Road Sign Assist	-						●	-	No	No	
Pre-Collision System	-						●	-	No	No	
Front Recognition Camera (Front Lighting Control)	-						●	-	No	No	
Clearance Warning	-						●	8934F0C04030	No	No	
Smart Key	-						●	011210060003	No	No	
SRS Airbag	-						●	8917F0C15100	No	No	
Main Body	-						●	8917H0C02100	No	No	
Power Source Control	-						●	8922F0C01003	No	No	
							●	01212C160002	No	No	
								FDC52.43.68	No	No	



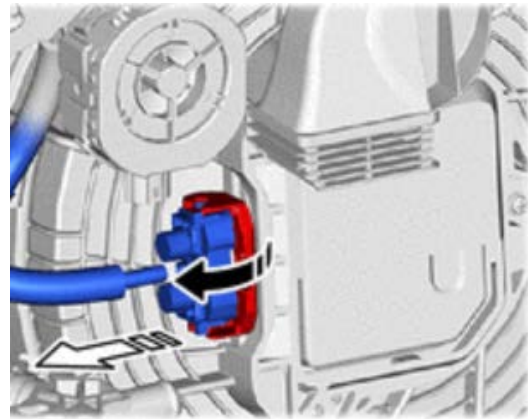
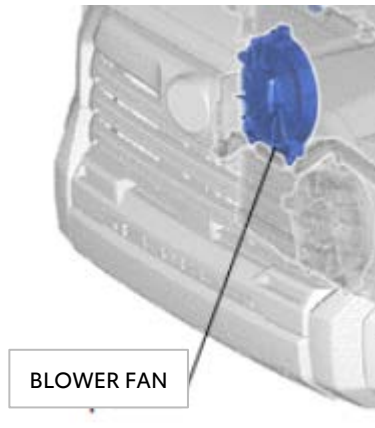
VI. VEHICLE PREPERATION

The CID Update Procedure is detailed in [T-SB-0107-20 ECU Flash Reprogramming With Security Signature](#). Please reference this Bulletin for more detailed procedures and information.

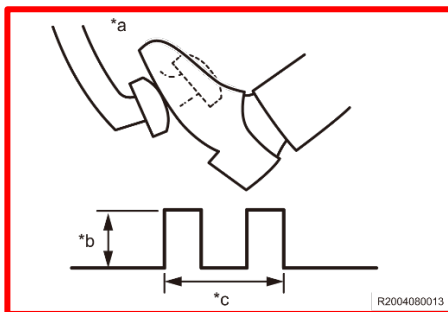
1. VEHICLE PREPARATION

a. Confirm the following conditions:

- Vehicle in the IG position (engine off).
- Transmission in Park.
- Parking brake engaged.
- Turn off ALL electrical accessories (i.e. climate control, audio system, etc.)
- Headlight switch in the DRL OFF position.
- Windshield wiper switch in the OFF position.
- ** Climate Control system must be fully OFF to prevent electric AC condenser blower motor fan from starting
- ** Disconnect the wire harness connection from the blower fan located on the front, left hand side of the radiator. (hybrid model only)



- Pressurize the Hydro-booster (for hybrid model)



Depress the brake pedal to full stroke, two times within two seconds before reprogramming. This will prevent the brake booster pump from starting during reprogramming which could result in a voltage drop. Do not depress the brake pedal again until reprogramming is completed to prevent voltage drop.

2. 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 12v 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.**

- c. Note for Hybrid vehicles, the battery is located inside the cab, under the rear seat, on the driver's side.

3. VERIFY TECHSTREAM SETUP

- a. Verify that the Techstream meets the following conditions:
 - The latest version of software is loaded.
 - The Techstream battery is fully charged. If not, connect the Techstream to a 120v source.
 - The DLCIII cable is in good condition.

This update takes 35 minutes to complete once it is started in CUW.



The Techstream's battery voltage MUST be maintained during the update procedure. If necessary, plug the Techstream into a 120v outlet during this procedure.

*****If the Techstream's communication with the vehicle fails during the update procedure, the ECU will be damaged.**

VII. UPDATE CALIBRATION

1. UPDATE THE CID FOR THE CIRCUMFERENCE MONITORING CAMERA CONTROL MODULE

- Identify the vehicles Original CID for the **Circumference Monitoring Camera Control Module** on the Stored Data tab.

2022 Tundra
V35A-FTS

001565 mile

2022_Tundra_V:
File Notes
Health Check
Data 1-4/1
Data 2-4/1

Sort

Expand>>

TIS Search

Print

Back

Tire Pressure / Threshold Value [psi(gauge)]

Sensor 1: 38.91 / 27.68 Sensor 2: 38.91 / 27.68
 Sensor 3: 32.42 / 27.68 Sensor 4: 38.16 / 27.68
 Sensor 5: N/A / N/A

Health Check Results

- Health Check does not display live data.
 - Changes in vehicle condition will not update automatically.
 - To update Health Check, click the Refresh button on the bottom of the Health Check screen.

Campaign Status **Yes**
PERMANENT: **NO**

Enhanced | Generic

DTC Related Information										
System	Monitor Status	DTC	Curr Conf	Pend	Hist	Test Failed	RoB	Calibration	Update	Configure
Tire Pressure Monitor	-						●	897AF010300	No	No
Circumference Monitoring Camera Control Module	-						●	8679F0C01105	Yes	No
Road Sign Assist	-						●	-		No
Pre-Collision System	-						●	-		No
Front Recognition Camera (Front Lighting Control)	-						●	-		No
Clearance Warning	-						●	8934F0C04030	No	No
Smart Key	-						●	011210060003	No	No
SRS Airbag	-						●	8917F0C15100	No	No
Main Body	-						●	8917H0C02100	No	No
Power Source Control	-						●	8922F0C01003	No	No
							●	01212C160002	No	No
							●	FDC52.43.68	No	No

Original CID

- Locate the vehicles **Original CID** in the chart below.
- Select the corresponding **NEW CID link** to load the update.

The CID Update Procedure is detailed in [T-SB-0107-20 ECU Flash Reprogramming With Security Signature.](#)

Model	Current Calibration ID	NEW Calibration ID
Tundra	8679F0C01201 8679F0C01105 8679F0C01104	8679F0C01301

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VIII. COMPLETE REPAIR

1. CONFIRM CID UPDATE



CONFIRM CID UPDATE

- Re-connect the cooling blower fan wire harness connection
- Using a Techstream, perform a Health Check to check for updated CID.

- On the Stored Data tab, confirm the following for the **Circumference Monitoring Camera Control Module**:

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

2022 Tundra V35A-FTS
001565 mile

Health Check Results

Enhanced | Generic |

System	Monitor Status	DTC	DTC Related Information				RoB	Calibration	Update	Configure
			Curr Conf	Pend	Hist	Test Failed				
Lane Control	-						8A3213401100	No	No	
Brake/EPB	-						F15260C25100	No	No	
Tire Pressure Monitor	-						897AF0101300	No	No	
Circumference Monitoring Camera Control Module	-						8679F0C01301	No	No	
Road Sign Assist	-						-	-	No	
Front Recognition Camera (Front Lighting Control)	-						-	-	No	
Clearance Warning	-						8934F0C04030	No	No	
Smart Key	-						011210060003	No	No	
SRS Airbag	-						8917F0C15100	No	No	
Main Body	-						8917H0C02100	No	No	
							8922F0C01003	No	No	

NEW CID MUST be displayed

Update MUST say "No"

2. CLEAR DTC's

- On the Stored Data tab, use the clear DTC feature to remove DTC's set during recalibration.

The screenshot shows the Techstream interface for a 2022 Tundra V35A-FTS. The 'Stored Data' tab is selected. The 'Clear DTC' button is located at the bottom right of the interface, next to the ECU, DTC, and Refresh buttons. A green box highlights this button, and a green arrow points to it from the text 'Clear DTC'.

System	Monitor Status	DTC	Curr Conf	Pend	Hist	Test Failed	RoB	Calibration	Update	Configure
Lane Control	-						●	8A3213401100	No	No
Brake/EPB	-						●	F15260C25100	No	No
Tire Pressure Monitor	-						●	897AF0101300	No	No
Circumference Monitoring Camera Control Module	-						●	8679F0C01301	No	No
Road Sign Assist	-						●	-	-	No
Front Recognition Camera (Front Lighting Control)	-						●	-	-	No
Clearance Warning	-						●	8934F0C04030	No	No
Smart Key	-						●	011210060003	No	No
SRS Airbag	-						●	8917F0C15100	No	No
Main Body	-						●	8917H0C02100	No	No
							●	8922F0C01003	No	No

3. PRINT CUSTOMER HEALTH CHECK REPORT

- From the Stored Data tab, select the Customer Health Check Report button (TIS will launch when button is pressed).

The screenshot shows the Techstream interface for a 2018 C-HR 3ZR FAE. A callout box with a white background and a black border highlights the 'Customer Health Check Button' at the bottom of the interface. The button features an icon of a person with a stethoscope and a document. The text 'Customer Health Check Button' is written next to the icon.

- Log in to TIS.
- Input Vehicle Mileage and Repair Order number.
- Check the "Performed" campaign button for the applicable campaigns.
- Select the Report button.
- Confirm Customer Health Check Report information is correct.
- Print Customer Health Check Report from TIS.
- Sign and provide to the customer.

IX. REASSEMBLY

1. Remove the power supply from the battery
2. Disconnect the Techstream.

◀ VERIFY REPAIR QUALITY ▶

- Confirm the system Calibration has been updated successfully.
- Confirm there are no new DTC's after the Calibration update.

A. PARTS DISPOSAL

In accordance with Federal law, please make sure all recalled 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.**

Campaign Designation / Phase Decoder

