

**PRELIM TECHNICAL INSTRUCTIONS**  
**FOR**  
**SAFETY RECALL F2C**  
**BRAKE ACTUATOR ASSEMBLY INSPECTION**  
**CERTAIN 2015 MODEL YEAR NX200t**

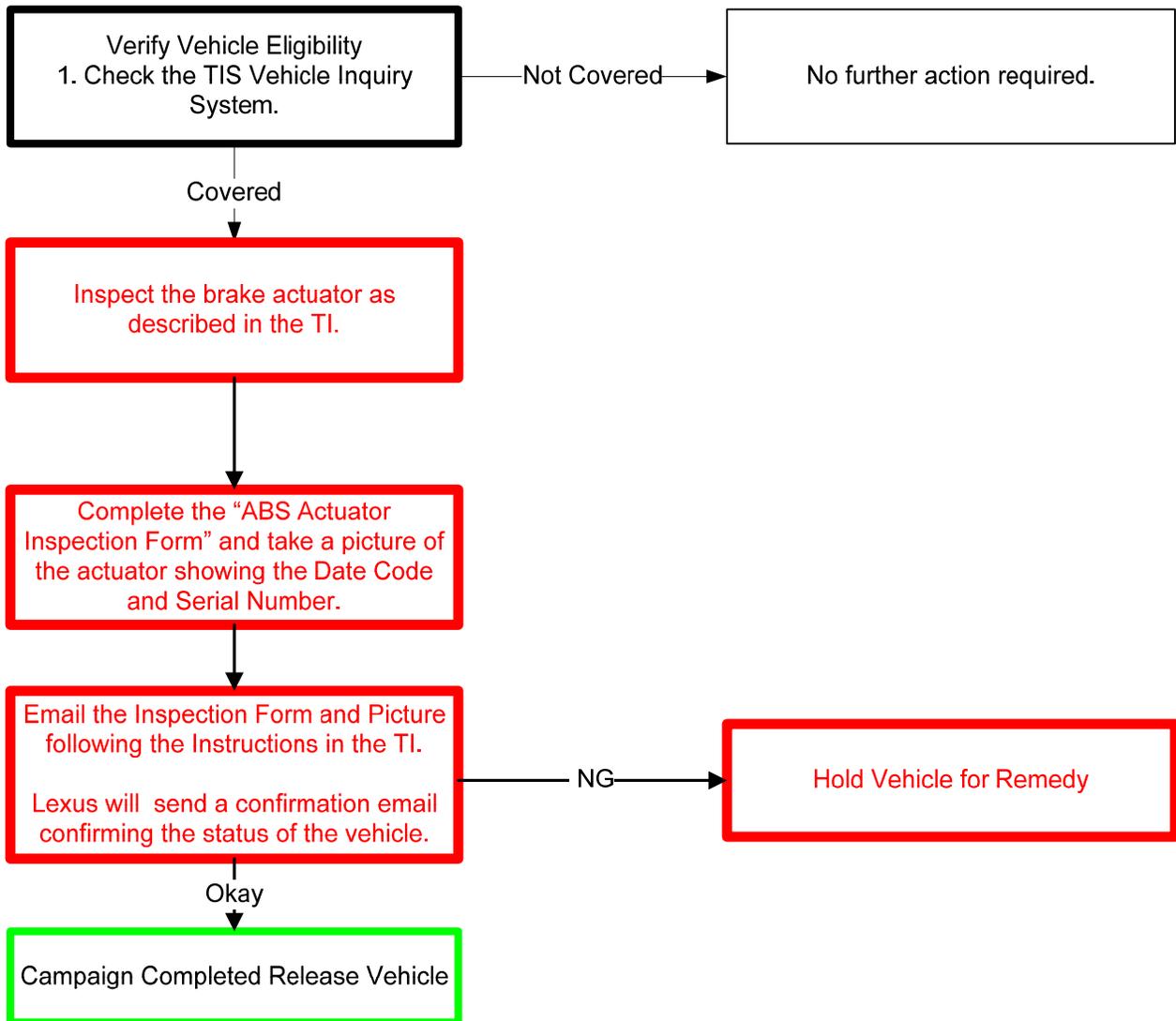
**FOR DEALER STOCK VEHICLES ONLY**

All dealership associates involved in the recall process are required to successfully complete E-Learning course LSC13A. To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to currently hold at least one of the following certifications levels:

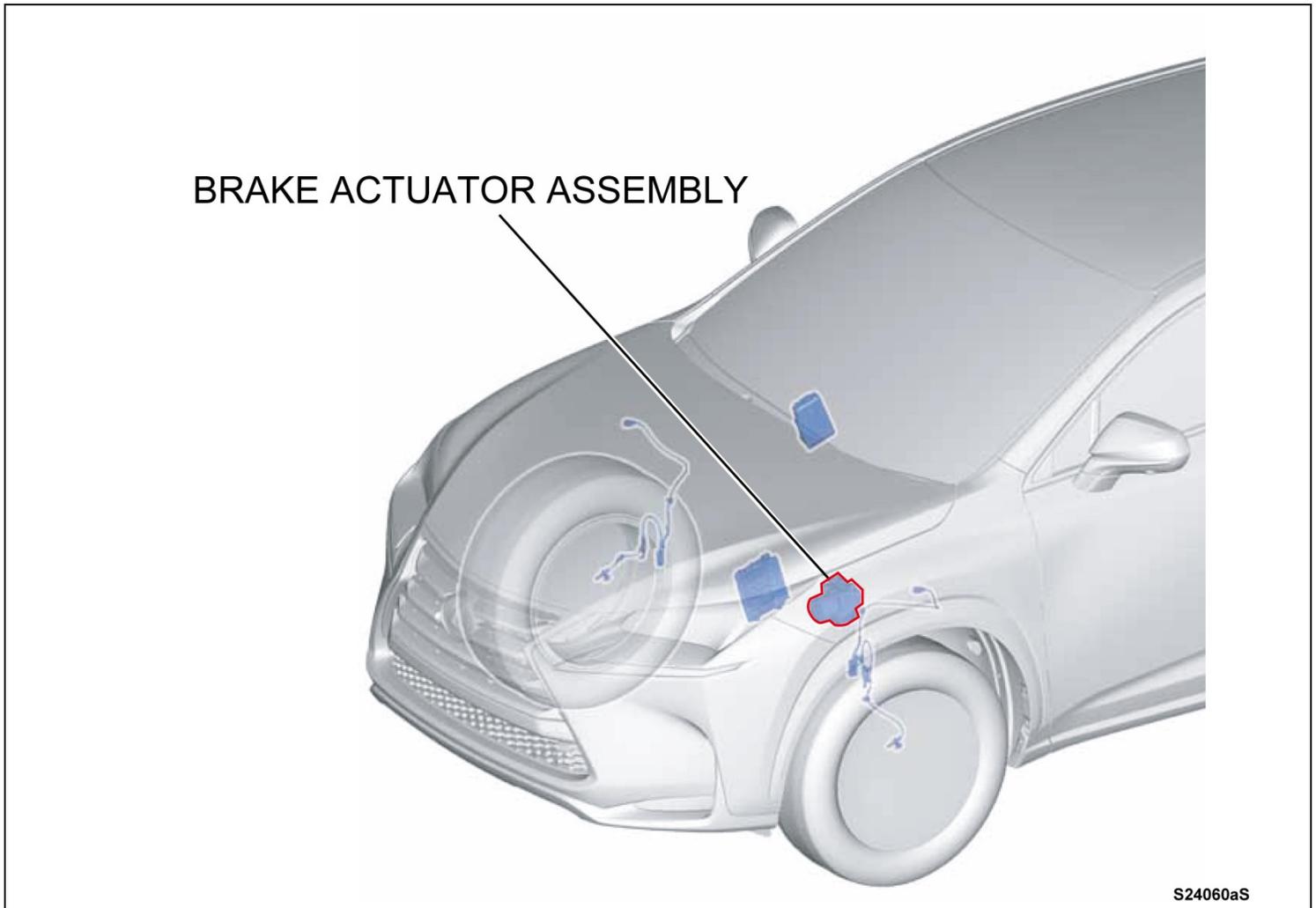
- Senior or Master Service Technician with w Self-Paced Module HL511A
- Senior or Master Diag. Specialist Technician w Self-Paced Module HL511A

# 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. BACKGROUND



The subject vehicles are equipped with an Anti-Lock Braking System (ABS), Traction Control System (TRAC), and Vehicle Stability Control System (VSC) which are controlled by the ABS actuator. There is a possibility that a component inside the actuator could be damaged during assembly and later not operate properly. Under some driving conditions, when the Anti-Lock Brakes are activated, this could cause a loss of vehicle stability, which can increase the risk of a crash.

## III. IDENTIFICATION OF AFFECTED VEHICLES

### A. COVERED VIN RANGE

- 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.

## IV. PREPARATION

### A. PARTS

**No parts at this time, this is a preliminary inspection only for dealer stock vehicles.**

### B. MATERIALS

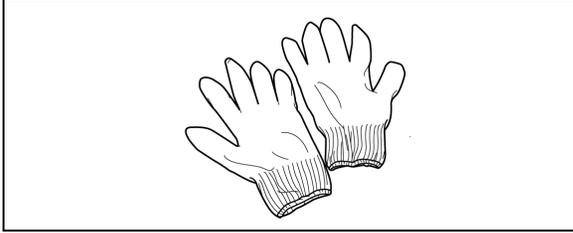
- Protective Gloves
- Fender Covers
- Safety Glasses

### C. TOOLS & EQUIPMENT

- Camera

## V. SAFETY PRECAUTIONS

These cautions should be observed when performing this campaign.

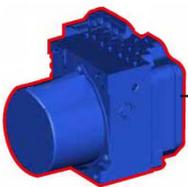


1. WEAR PROTECTIVE GLOVES



2. WEAR EYE PROTECTION

## VI. COMPONENTS



● BRAKE ACTUATOR ASSEMBLY

● : Component to be Inspected

$\boxed{\text{N*m (kgf*cm, ft.*lbf)}}$  : Specified torque

S24071aS

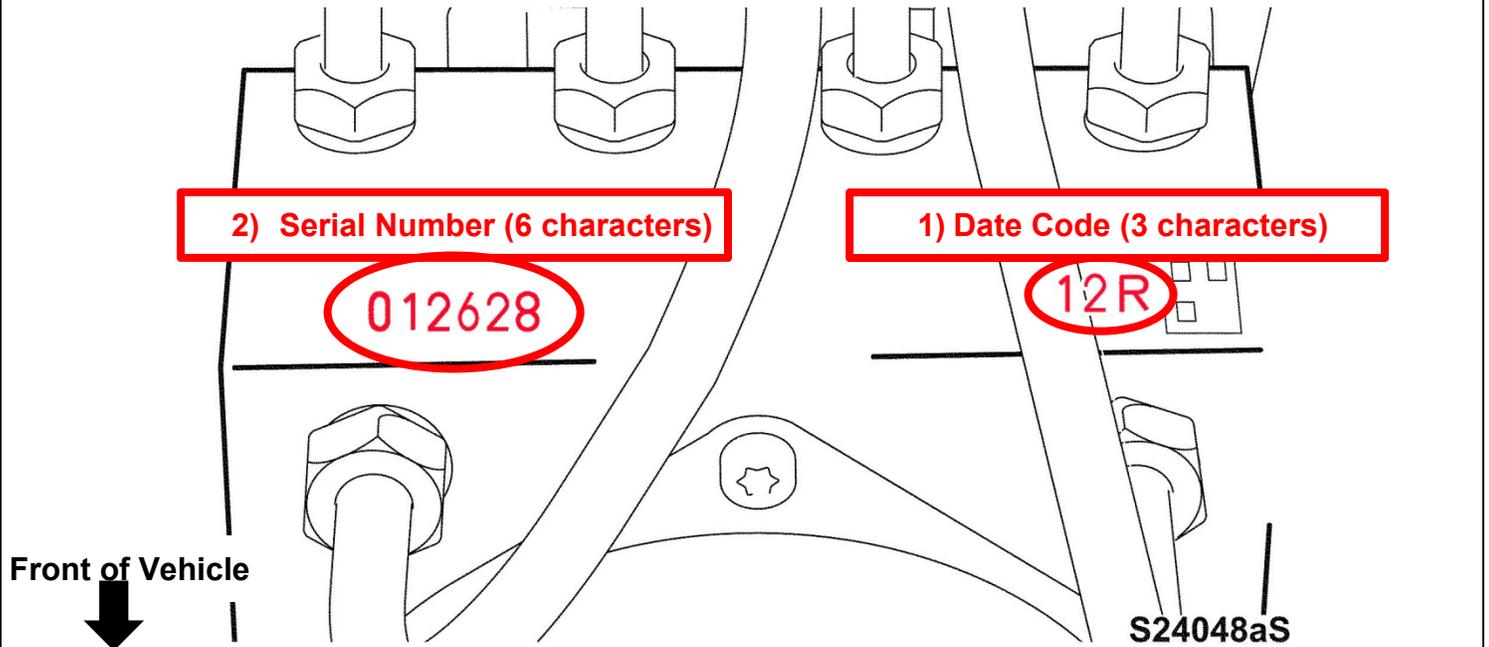
## VII. BRAKE ACTUATOR INSPECTION

### A. INSPECT THE BRAKE ACTUATOR



- It is important to carefully inspect the numbers stamped on the actuator assembly.
- Follow the process below exactly and **DO NOT SKIP A STEP!**
- There are two different sets of number that need to be inspected and must be inspected in a certain order:
  1. Date Code
  2. Serial Number

#### Actuator Date Code and Serial Number Locations

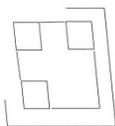


#### 1. CHECK AND RECORD THE DATE CODE

- Click the link in blue and print a copy of the [“ABS Actuator Inspection Sheet”](#)
- Confirm the date code on the actuator and record it onto the ABS Actuator Inspection Sheet.
- After recording the date code, indicate whether the date code is “12R or “Anything Else as shown in the sample below.

Date Code

**12R**



S24049aS

Date Code Spec	Date Code	Check Box
“12R”	12R	✓
Anything Else		

**NOTE:** The date code can be difficult to read due to the small font size, visual interference from the brake line, and the lite etched numbers. Here are some ideas you can use to help ensure you can read the date code:

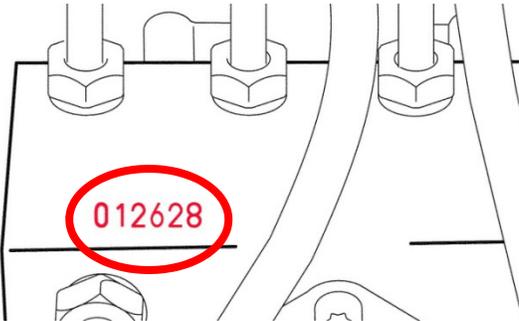
- Take a clear photo that can be enlarged to make a clear judgment.
- Use a bore scope that can display the image.
- Have someone confirm your results

## 2. CHECK AND RECORD THE SERIAL NUMBER

- Confirm the 6 character serial number on the actuator and record it onto the "ABS Actuator Inspection Sheet".
- After recording the serial number, indicate if it is within the serial range or out of the serial range. as shown in the sample table below.

**NOTE: The serial number is difficult to read due to the small font size, interference from the brake line, and the lite etched numbers. Here are some ideas you can use to help ensure you can read it correctly.**

- Take a clear photo that can be enlarged to make a clear judgment.
- Use a bore scope that can display the image.
- Have someone confirm your results



Serial Number Spec	Status	Serial #	Check Box
002469 to 012218	Inside Of Range		
Serial Outside of Range	Outside of Range	012628	✓

## 3. TAKE A PICTURE OF THE BRAKE ACTUATOR & EMAIL INSPECTION FORM

- Take a clear picture of the top of the brake actuator so that the Date Code and Serial Number are legible.

**NOTE: The picture must be clear so that the Date code and Serial Number are readable.**

- Email a copy of the picture and the "ABS Actuator Inspection Sheet" with the following information:

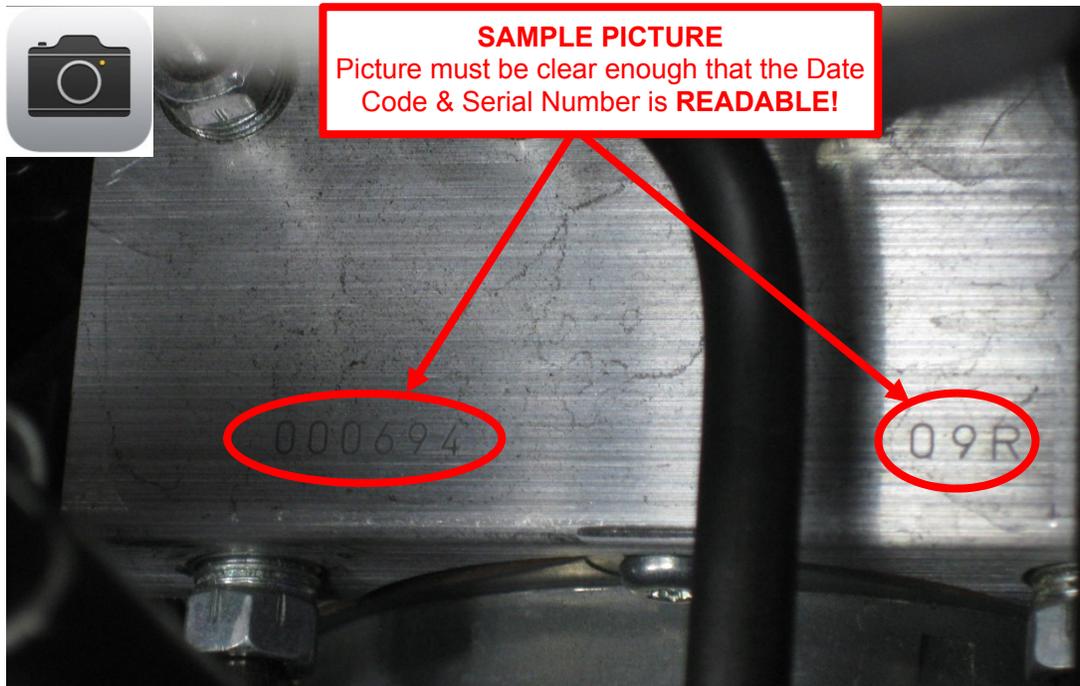
- Subject Line: F2C NDS Release Request (Dealer Code)
- Dealer Code
- VIN Number
- Contact Person

Email To: [quality\\_compliance@toyota.com](mailto:quality_compliance@toyota.com)

## 4. TMS INSPECTION CONFIRMATION EMAIL

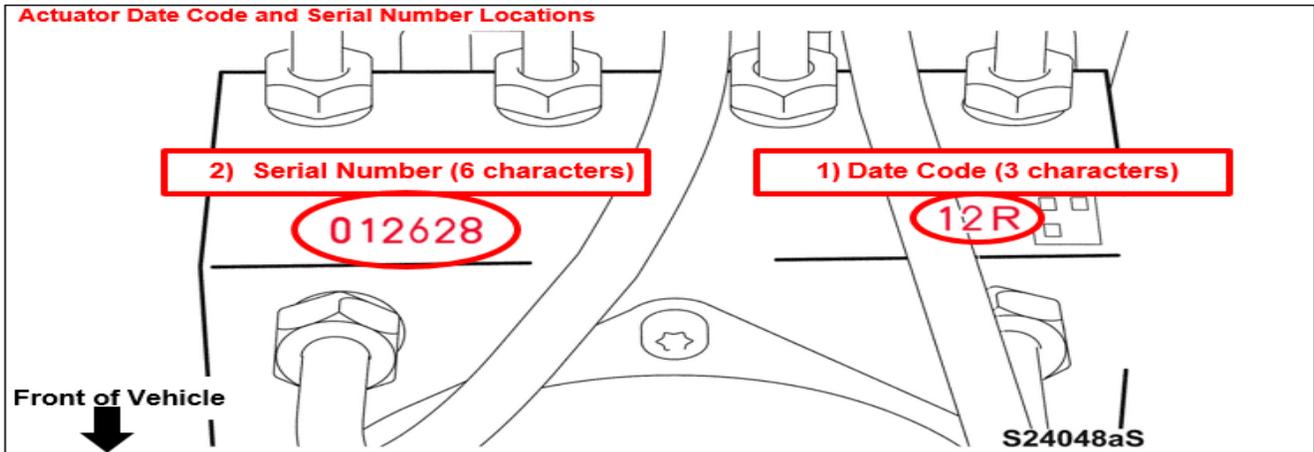
- TMS will confirm the inspection information with the picture and will respond to your email with one of two responses:

- Release Vehicle (Complete)
- HOLD Vehicle for Remedy



# Sample Inspection Form

## ABS Actuator Inspection Sheet



1. RECORD THE VIN, MILEAGE, TECHNICIAN NAME, DATE CODE, AND MARK CHECK BOX ACCORDINGLY

VIN:  Mileage:  Technician Name:

Date Code Spec	Record Date Code	Check Box
"12R"	12R	✓
Anything Else		

2. RECORD THE SERIAL NUMBER AND MARK THE CHECK BOX ACCORDINGLY

Serial Number Spec	Status	Record Serial #	Check Box
002469 to 012218	Inside Of Range		
Serial Outside of Range	Outside of Range	012628	✓

3. TAKE A PICTURE OF THE BRAKE ACTUATOR & EMAIL INSPECTION FORM

- a) Take a clear picture of the top of the brake actuator so that the Date Code and Serial Number are legible.

**NOTE:** The picture must be clear so that the Date code and Serial Number are readable.

- b) Email a copy of the picture and the "ABS Actuator Inspection Sheet" with the following information to Quality Compliance for final approval:
  - **Subject Line:** FLC NDS Release Request (Dealer Code)
  - **Dealer Code**
  - **VIN Number**
  - **Contact Person**
  - **Email To:** [quality\\_compliance@toyota.com](mailto:quality_compliance@toyota.com)

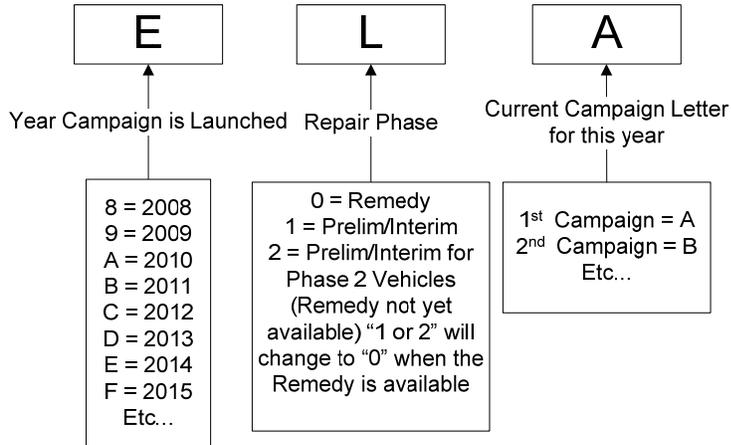
<p><b>Technician Inspection Comments/Feedback:</b></p> <hr/> <p>The serial number was difficult to see, I found it easier if I took a picture and enlarged the photo on my camera screen, this helped confirm that I read the date code and serial number correctly.</p> <hr/>	<p><b>TMS USE ONLY</b></p> <p style="text-align: right;">Hold Vehicle : <input type="text"/></p> <p style="text-align: right;">Release Vehicle: <input type="text"/></p> <p>Comments: <input style="width: 100%;" type="text"/></p>
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## ◀ VERIFY REPAIR QUALITY ▶

- Confirm that the inspection was followed properly
  - Do NOT release the vehicle until confirmation is received from TMS
- If you have any questions regarding this update, please contact your area representative.

### VIII. APPENDIX

#### A. CAMPAIGN DESIGNATION DECODER



#### B. 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.***