

## **TECHNICAL INSTRUCTIONS**

**FOR**

**22TA01**

**REAR TURN SIGNAL LAMPS MAY BECOME DIM OR DEACTIVATED**

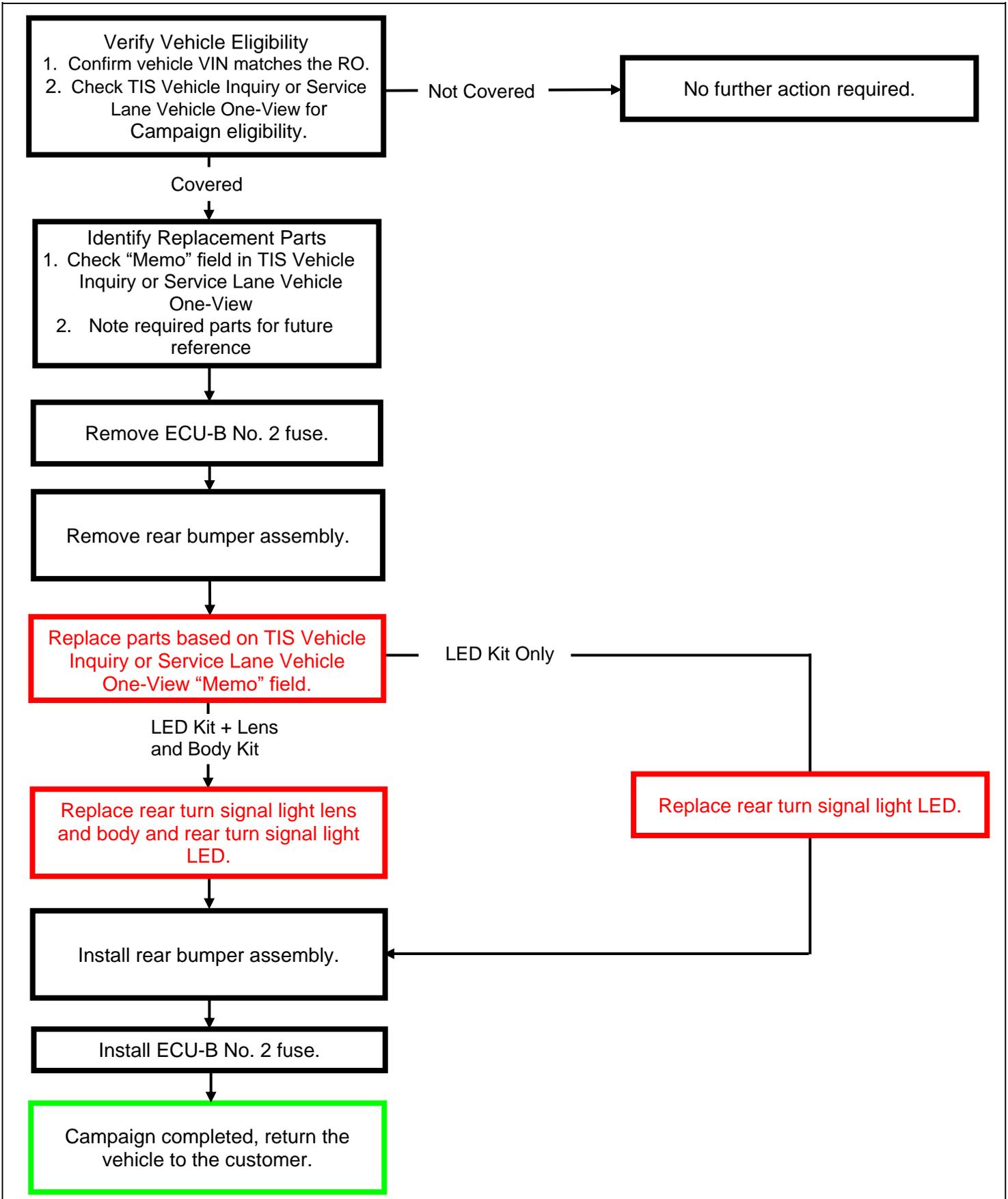
**CERTAIN 2021 VENZA HYBRID**

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 currently have completed all of the following courses:

- [T623 – Toyota Electrical Circuit Diagnosis](#)

It is the dealership’s responsibility to select technicians with the above certification level or greater to perform this Recall 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.

# OPERATION FLOW CHART



## IDENTIFICATION OF AFFECTED VEHICLES AND PARTS

- a) Check TIS Vehicle Inquiry or Service Lane Vehicle One-View 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.

**NOTE:**

**TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were completed by another dealer.**

- b) While you're still in Vehicle Inquiry or Vehicle One-View, check the "Memo" field to determine which parts are needed (LED Kit, or LED Kit + Lens and Body Kit). Note this information for future reference.

LED Kit + Lens and Body Kit:

The screenshot displays the 'Service Campaign' page for a Toyota vehicle. The navigation tabs at the top include Campaign, Service History, ToyotaCare, Warranty, Telematics, DTC History, and Diagnostic Report. The main content area shows the following details:

- Campaign Description:** Safety (Noncompliance) Recall 22TA01 (Remedy Notice) - Certain 2021 Venza F
- Campaign Status:** Remedy Available
- Completion Status:** **Not Completed**
- Estimated Repair Time:** 1.0
- Parts Required:** YES
- Estimated Parts Replacement Rate:** 100%

A red box highlights the **Memo:** field, which contains the following text:

- Parts Needed:
- LED Kit (04001-28348, qty 1)
- Lens and Body Kit (04001-28148, qty 1)

Below the memo, the **Tech Cert Requirements:** section is visible, with a box containing **Required Courses:** \*T6234-Electrical Circuit Diagnosis.

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LED Kit ONLY:

The screenshot displays the 'Service Campaign' page for a Toyota vehicle. The navigation tabs at the top include Campaign, Service History, ToyotaCare, Warranty, Telematics, DTC History, and Diagnostic Report. The main content area shows the following details:

- Campaign Description:** Safety (Noncompliance) Recall 22TA01 (Remedy Notice) - Certain 2021 Venza F
- Campaign Status:** Remedy Available
- Completion Status:** **Not Completed**
- Estimated Repair Time:** 1.0
- Parts Required:** YES
- Estimated Parts Replacement Rate:** 100%

A red box highlights the **Memo:** field, which contains the following text:

- Parts Needed:
- LED Kit (04001-28348, qty 1)

Below the memo, the **Tech Cert Requirements:** section is visible, with a box containing **Required Courses:** \*T6234-Electrical Circuit Diagnosis.

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# PREPARATION

## A. PARTS

Part Number	Part Description	Quantity
04001-28148	RR TURN SIGNAL LENS & BODY KIT <sup>(a, b)</sup>	1

a) The kit above includes the following parts.

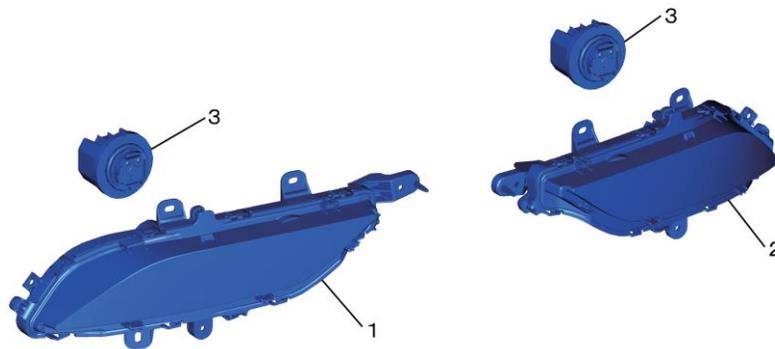
b) The kit above is not required for all vehicles. Order/replace based on parts shown in CPOR or the "Memo" field in TIS Vehicle Inquiry or Service Lane Vehicle One-View.

Part Description	Quantity
RR TURN SIGNAL LENS & BODY LH (REAR TURN SIGNAL LIGHT HOUSING LH)	1
RR TURN SIGNAL LENS & BODY RH (REAR TURN SIGNAL LIGHT HOUSING RH)	1

Part Number	Part Description	Quantity
04001-28348	SOCKET LED KIT <sup>(a)</sup>	1

a) The kit above includes the following parts.

Part Description	Quantity
SOCKET LED (REAR TURN SIGNAL LIGHT LED)	2



R2111090001

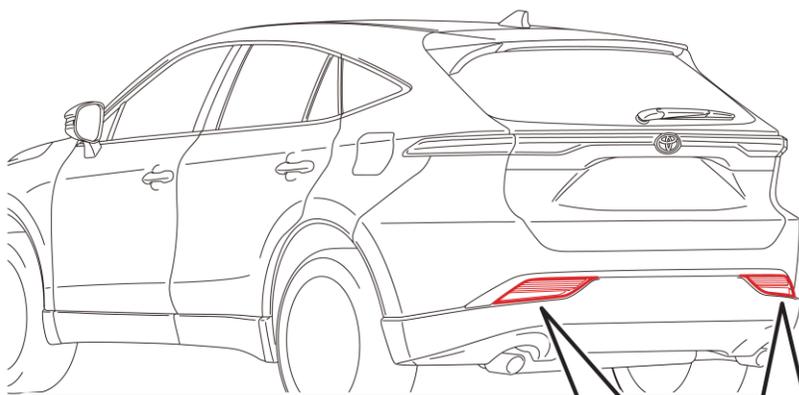
## B. TOOLS, SUPPLIES & EQUIPMENT

- Standard Hand Tools
- Plastic molding remover
- Techstream ADVi / Techstream 2.0 / Techstream Lite

## C. MATERIALS

- Protective Gloves
- Protective Glasses
- Protective (Painter's) Tape
- Marker Pen
- Shop Cloth
- Soft Cloth

# PART IDENTIFICATION



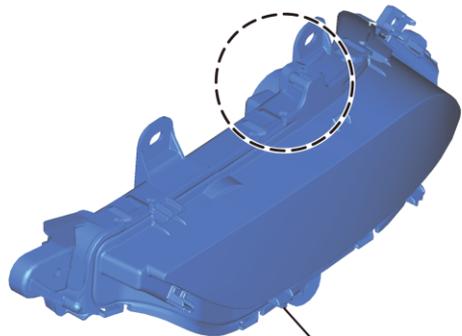
Before replacement:

REAR TURN SIGNAL LIGHT LED

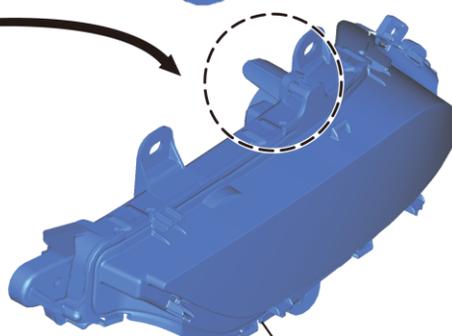


After replacement:

REAR TURN SIGNAL LIGHT LED



REAR TURN SIGNAL LIGHT  
LENS AND BODY

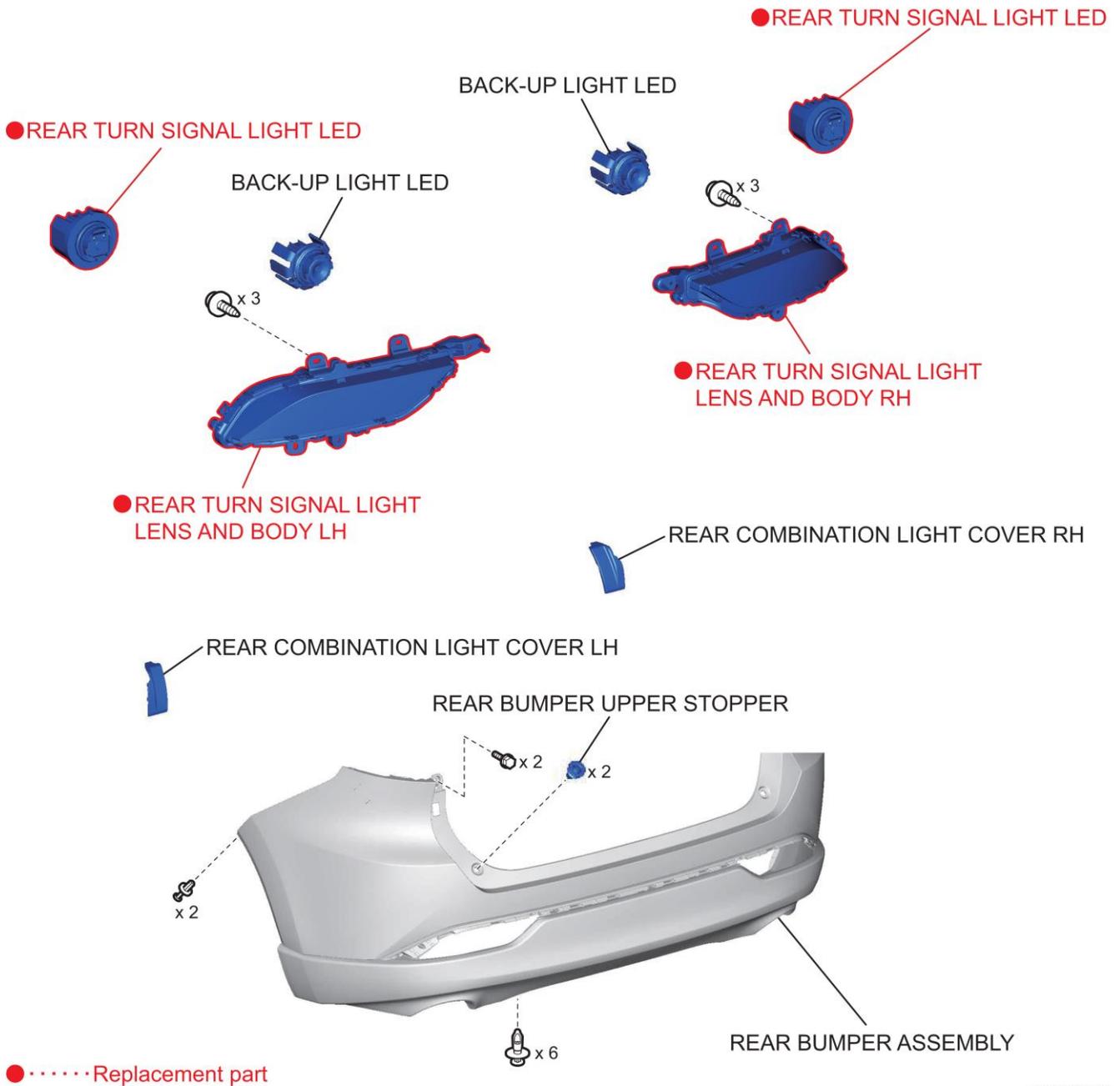
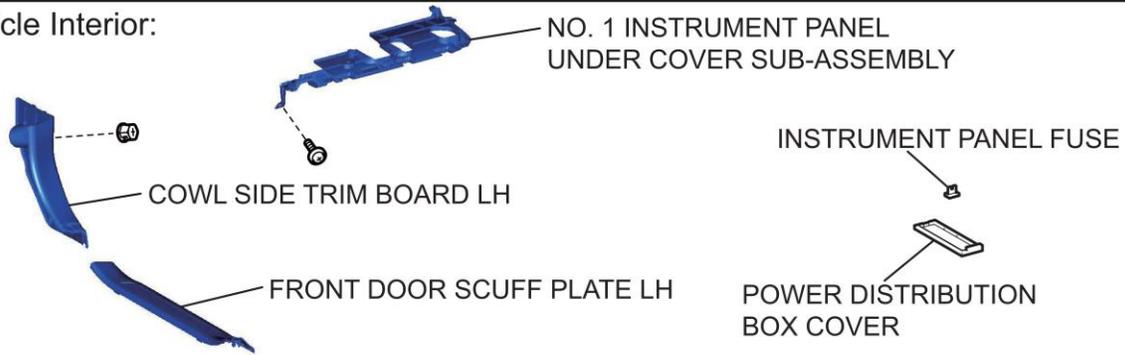


REAR TURN SIGNAL LIGHT  
LENS AND BODY

R2111080006a

## II. COMPONENTS

Vehicle Interior:



R211109002a

## REMOVE REAR BUMPER ASSEMBLY



- **DO NOT** turn the IG ON/OFF or operate the power back door control switch during work, since the cable is not disconnected from the negative auxiliary battery terminal.
- The inspection and adjustment of the ultrasonic sensors are unnecessary since the rear bumper only needs to be removed/installed.



### 1. CHECK FOR DTC'S

- Using a Techstream, perform a Health Check to check for any Diagnostic Trouble Codes (DTCs). When DTCs are displayed, check and record the codes and the freeze frame data for future reference.

**NOTE:**

This Campaign covers only the rear turn signal lens & body and/or socket LEDs, as detailed in these instructions. It does not cover the diagnosis or replacement of any other systems on the vehicle.

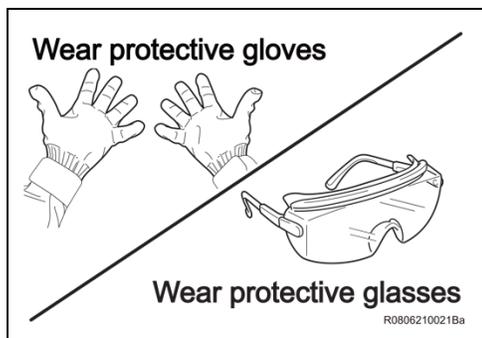
### 2. RECORD CUSTOMIZED ITEMS

- The customized items will be initialized by removing the ECU-B No.2 fuse. Operate the multi-information display of the combination meter to check and record the current settings before starting work.

System	Function	Setting (Thick frame: Default)		
PCS (Pre-Collision System)	PCS (Pre-Collision System)	<input type="checkbox"/> On	<input type="checkbox"/> Off	
	Adjust alert timing	<input type="checkbox"/> Late	<input type="checkbox"/> Middle	<input type="checkbox"/> Early
BSM (Blind Spot Monitor)	BSM (Blind Spot Monitor)	<input type="checkbox"/> On	<input type="checkbox"/> Off	
RCTA (Rear cross traffic alert) function	RCTA (Rear cross traffic alert) function	<input type="checkbox"/> On	<input type="checkbox"/> Off	

### 3. OPEN BACK DOOR

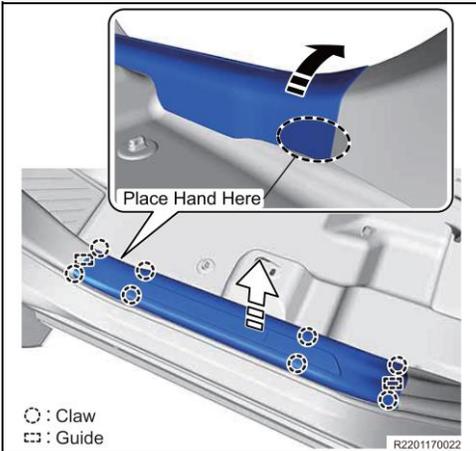
- Open the back door before starting work as the operation of the hands free power back door will be stopped by removing a fuse.



### 4. WEAR PROTECTIVE EQUIPMENT

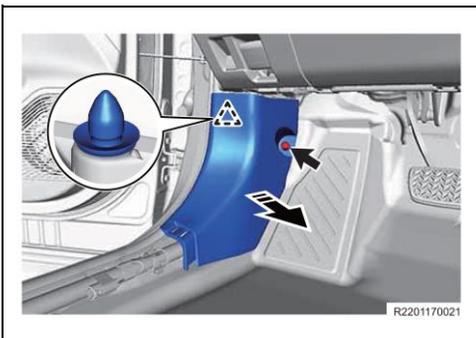


- Make sure to wear protective gloves to protect hands from injury.
- Wear protective glasses to protect eyes from foreign matter when working under the vehicle.



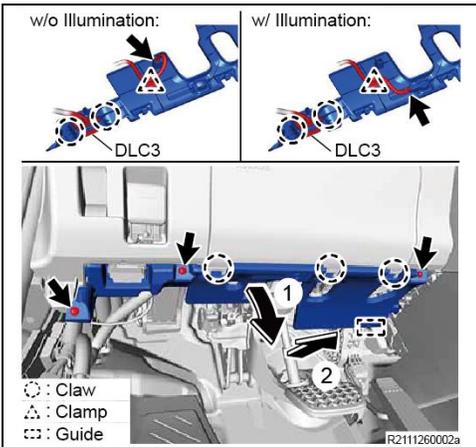
## 5. REMOVE FRONT DOOR SCUFF PLATE LH

- a. Disengage the 2 claws and guide as shown in the illustration.
- b. Disengage the 6 claws and guide as shown in the illustration to remove the front door scuff plate LH.
- c. w/ Illumination:
  - i. Disconnect the connector.



## 6. REMOVE COWL SIDE TRIM BOARD LH

- a. Remove the clip.
- b. Disengage the clip to remove the cowl side trim board LH as shown in the illustration.



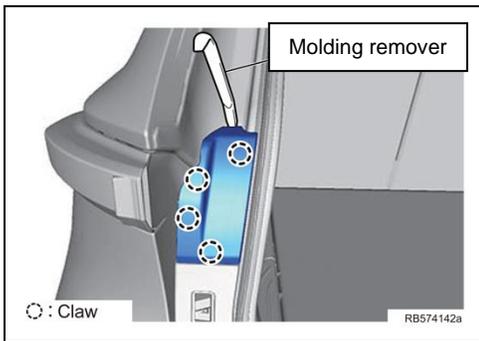
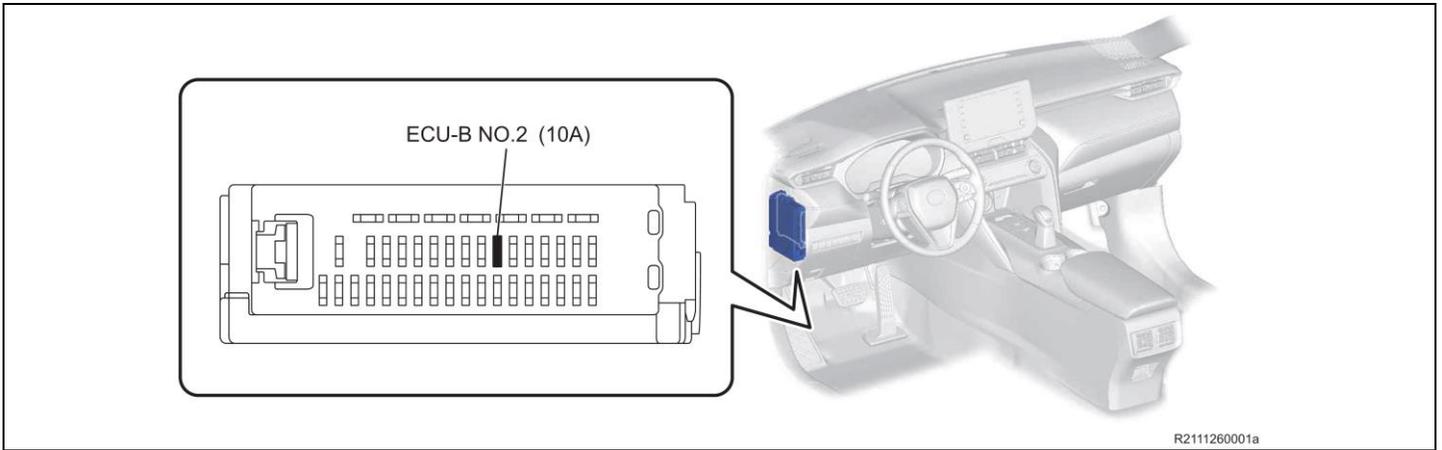
## 7. REMOVE ECU-B NO.2 FUSE (w/ Hands Free Power Back Door)



**Remove the ECU-B No.2 fuse to stop the operation of the hands free power back door, since an unexpected movement of the power back door may cause someone being caught by accident.**

- a. Remove No.1 instrument panel under cover sub-assembly.
  - i. Confirm IG OFF.
  - ii. Remove the 3 screws.
  - iii. Pull the No.1 instrument panel under cover sub-assembly in the direction indicated by the arrow (1) to disengage the 3 claws.
  - iv. Pull the No.1 instrument panel under cover sub-assembly in the direction indicated by the arrow (2) to disengage the guide.
  - v. Disengage the 2 claws to disconnect the DLC3.
  - vi. Disconnect the connector and disengage the clamp to remove the No.1 instrument panel under cover sub-assembly.

b. Remove the ECU-B No.2 fuse (10A) from the power distribution box assembly.

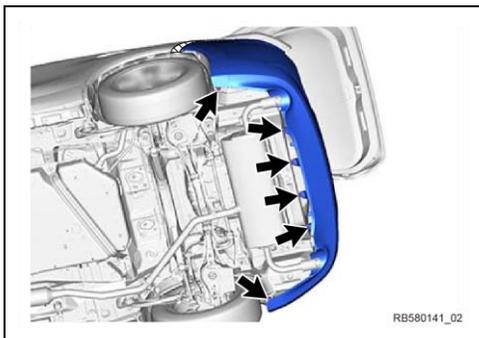
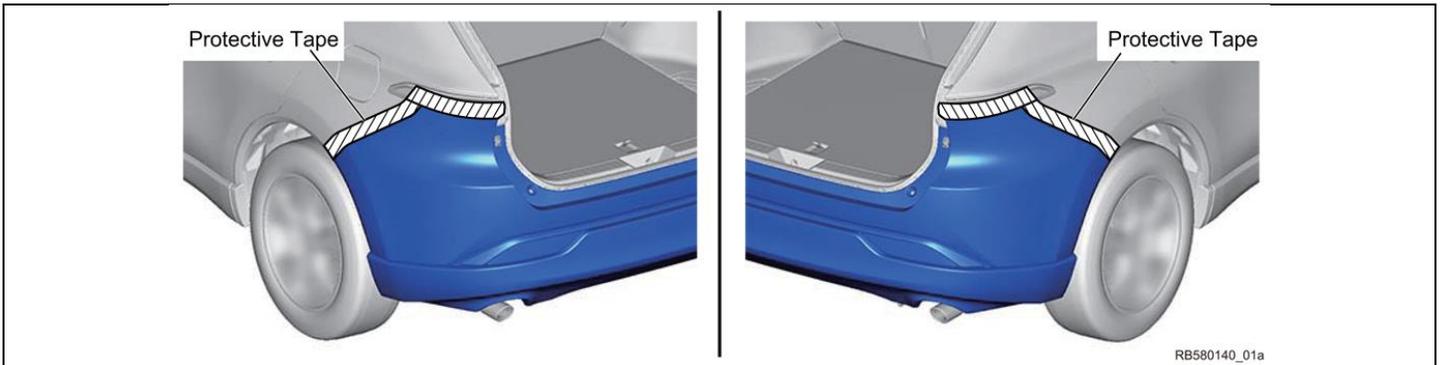


### 8. REMOVE REAR COMBINATION LIGHT COVER

- Using a molding remover, disengage the 4 claws as shown in the illustration to remove the rear combination light cover LH.
- Use the same procedure for the other side.

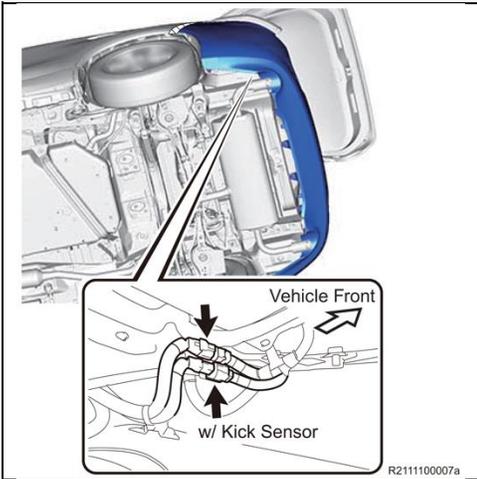
### 9. APPLY PROTECTIVE TAPE

- Apply protective (painter's) tape around the rear bumper assembly as shown in the illustration.



### 10. REMOVE REAR BUMPER ASSEMBLY

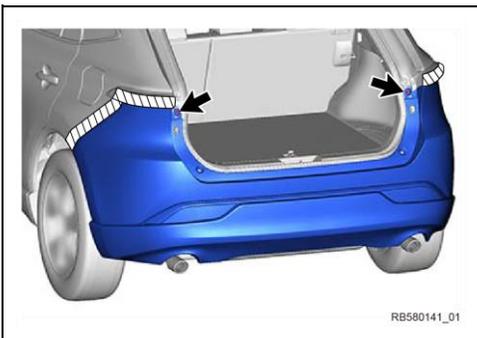
- Remove the 6 clips under the vehicle.



- b. Disconnect the 2 connectors.
- c. Apply tape on the disconnected connectors to protect them from foreign matter or water.

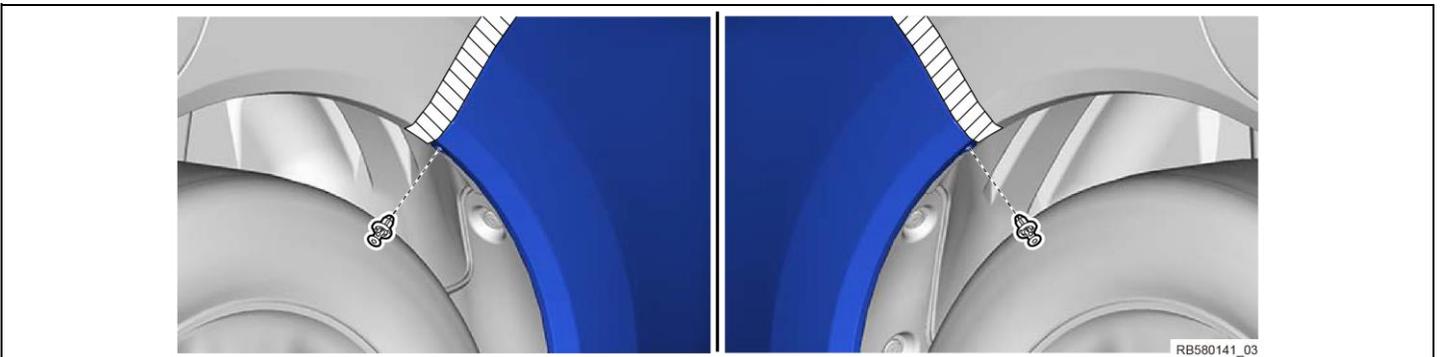


- d. Remove the 2 rear bumper upper stoppers (screw and grommet).

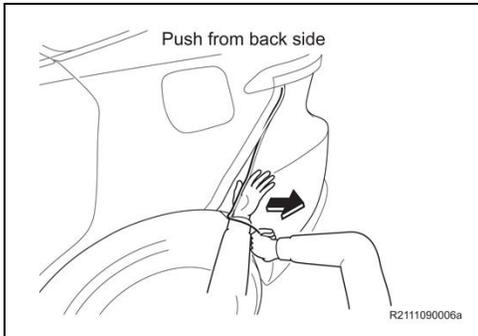
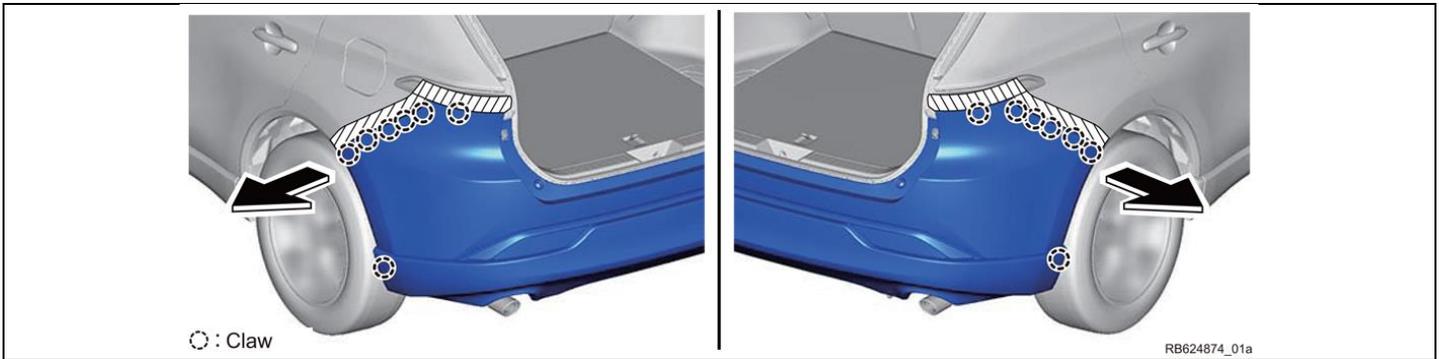


- e. Remove the 2 screws.

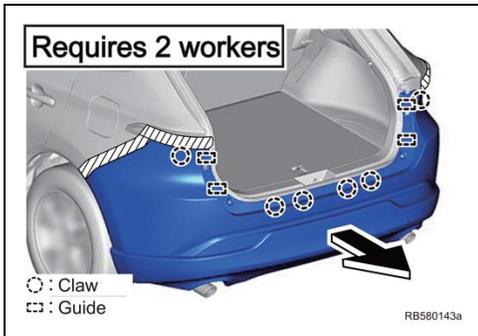
- f. Remove the 2 clips from the left and right wheel house side (one clip on each side).



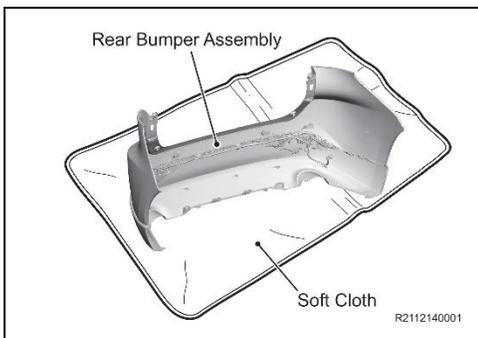
g. Disengage the 14 claws shown in the illustration so the rear bumper assembly is lifted up.



**Note: To protect the rear bumper assembly from breakage, push the area around the claws from the back side by inserting your hand from the gap between the rear bumper assembly and vehicle body.**



h. With another worker disengage the 6 claws and 4 guides as shown in the illustration to remove the rear bumper assembly.



**Critical** Work on the removed rear bumper assembly placing it on a soft cloth to avoid scratch.

## USE TIS OR SERVICE LANE TO DETERMINE REPLACEMENT PARTS



**Make sure to check each VIN in TIS or Service Lane, since the replacement parts differ depending on the VIN.**

### 1. DETERMINE WHICH PARTS NEED TO BE REPLACED

- a. Refer to the parts information you found in the Vehicle Inquiry or Vehicle One-View “Memo” field in step II. IDENTIFICATION OF AFFECTED VEHICLES AND PARTS.

LED Kit + Lens and Body Kit:

**Campaign** | Service History | ToyotaCare | Warranty | Telematics | DTC History | Diagnostic Report

**Service Campaign**

**Campaign Description:** Safety (Noncompliance) Recall 22TA01 (Remedy Notice) - Certain 2021 Venza +  
**Campaign Status:** Remedy Available  
**Completion Status:** **Not Completed**  
**Estimated Repair Time:** 1.0  
**Parts Required:** YES  
**Estimated Parts Replacement Rate:** 100%

**Memo:** Parts Needed:  
- LED Kit (04001-28348, qty 1)  
- Lens and Body Kit (04001-28148, qty 1)

**Tech Cert Requirements:**

**Required Courses:**  
\*T6234-Electrical Circuit Diagnosis

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LED Kit ONLY:

**Campaign** | Service History | ToyotaCare | Warranty | Telematics | DTC History | Diagnostic Report

**Service Campaign**

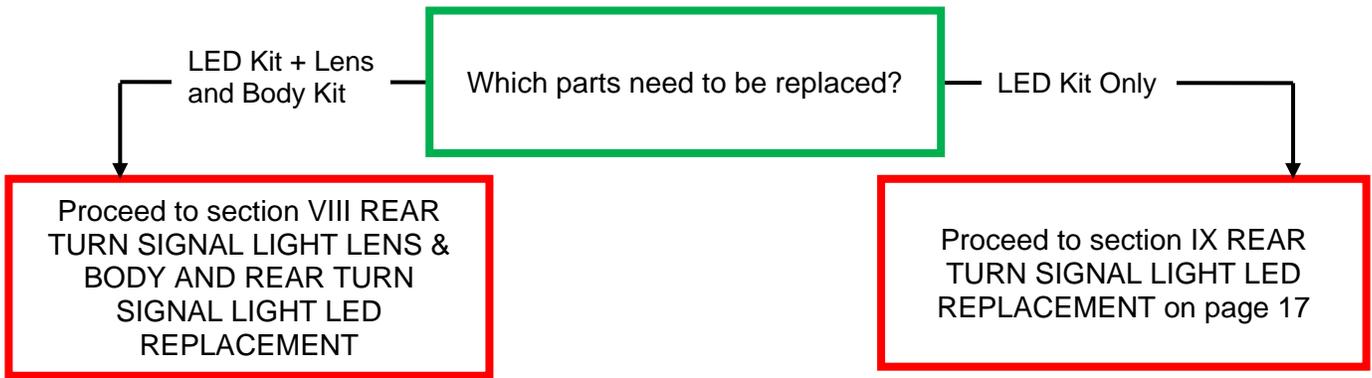
**Campaign Description:** Safety (Noncompliance) Recall 22TA01 (Remedy Notice) - Certain 2021 Venza +  
**Campaign Status:** Remedy Available  
**Completion Status:** **Not Completed**  
**Estimated Repair Time:** 1.0  
**Parts Required:** YES  
**Estimated Parts Replacement Rate:** 100%

**Memo:** Parts Needed:  
- LED Kit (04001-28348, qty 1)

**Tech Cert Requirements:**

**Required Courses:**  
\*T6234-Electrical Circuit Diagnosis

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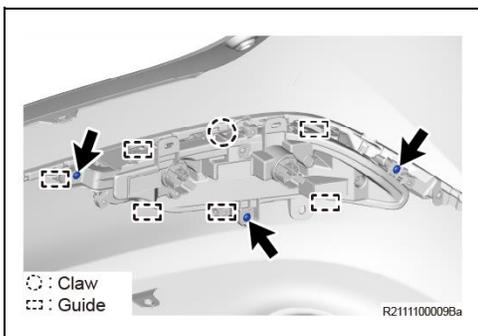
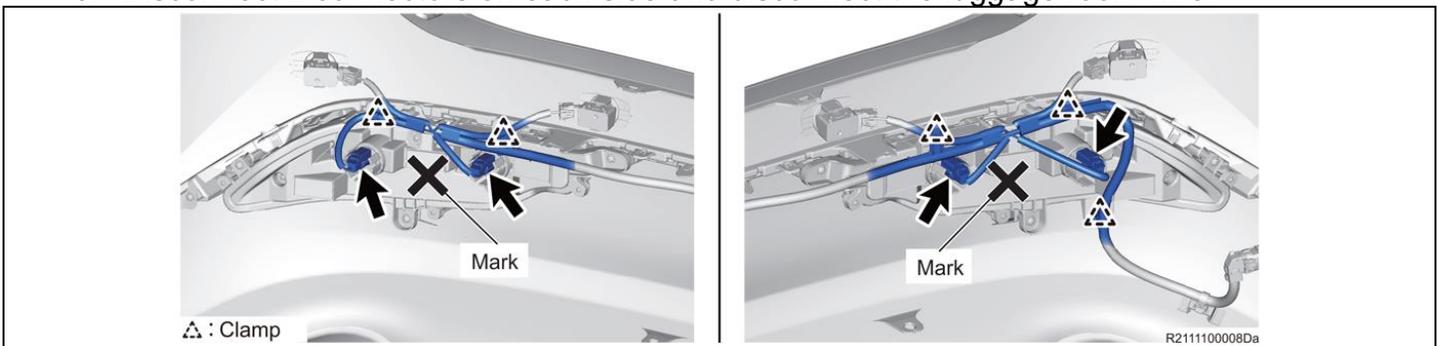
## REAR TURN SIGNAL LIGHT LENS AND BODY AND REAR TURN SIGNAL LIGHT LED REPLACEMENT



**Make sure to check each VIN in TIS or Service Lane, since the replacement parts differ depending on the VIN. Not all vehicles require Lens and Body replacement.**

### 1. REMOVE REAR TURN SIGNAL LIGHT ASSEMBLY

- a. Mark the rear turn signal light assemblies.
- b. Disengage the clamps (3 clamps on the LH side/ 2 clamps on the RH side).
- c. Disconnect 2 connectors on each side and disconnect the luggage room wire.



- d. Remove the 3 screws.
- e. Disengage the claw and 6 guides to remove the rear turn signal light assembly.
- f. Use the same procedure for the other side.

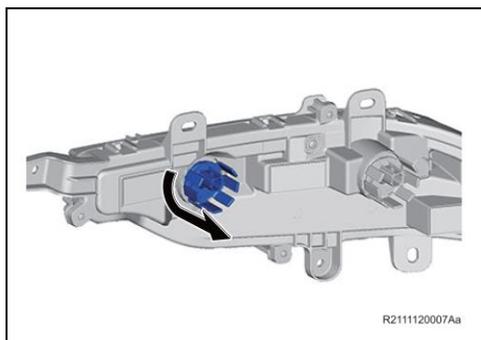
## 2. REMOVE BACK-UP LIGHT LED

### CRITICAL TIP



**DO NOT touch the printed circuit board of the removed back-up light LED, since static electricity may damage the LED.**

a. Remove the back-up light LED.



- Store the removed back-up light LED so they can be reused.
- **DO NOT touch the printed circuit board of the removed back-up light LED, since static electricity may damage the LED.**

b. Store the rear turn signal light LED and the rear turn signal light lens and body from which the back-up light LED is removed.

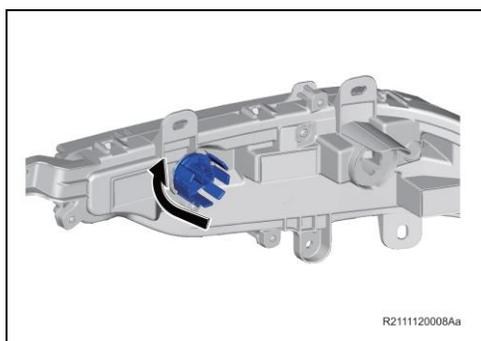
## 3. INSTALL BACK-UP LIGHT LED

### CRITICAL TIP

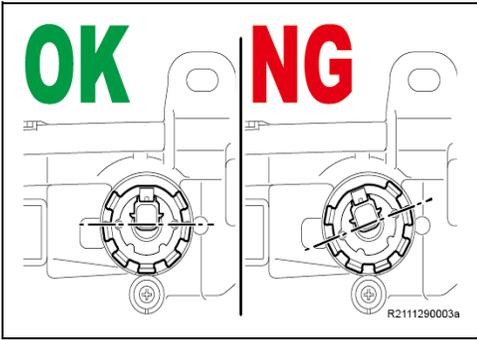


**DO NOT touch the printed circuit board of the removed back-up light LED, since static electricity may damage the LED.**

a. Install the back-up light LED to the **NEW** rear turn signal light lens and body aligning the grooves.



- **DO NOT turn the LED forcibly when installing it.**
- **DO NOT touch the printed circuit board of the back-up light LED, since static electricity may damage the LED.**

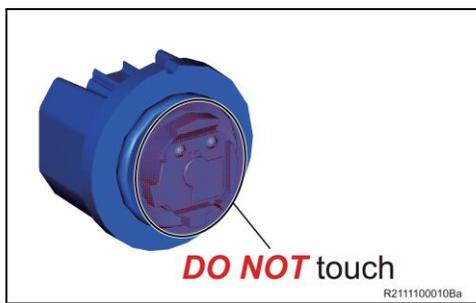


- b. Confirm that the connector of the back-up light LED is horizontal.

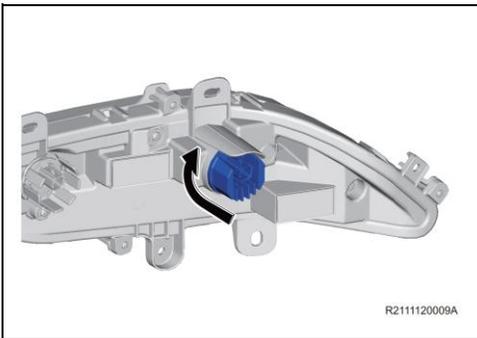
**Critical** Make sure that the connector of the back-up light LED is horizontal to prevent the connector from falling off.

#### 4. INSTALL **NEW** REAR TURN SIGNAL LIGHT LED

### CRITICAL TIP



**DO NOT** touch the printed circuit board of the new rear turn signal light LED, since static electricity may damage the LED.

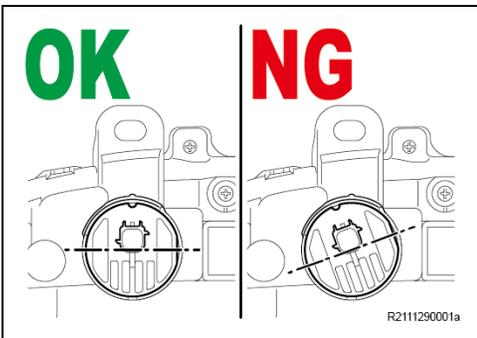


- a. After confirming the color of the printed circuit board is white, install the **NEW** rear turn signal light LED to the rear turn signal light lens and body aligning the grooves.

**Critical**

- **DO NOT** turn the LED forcibly when installing it.
- **DO NOT** touch the printed circuit board of the new rear turn signal light LED.

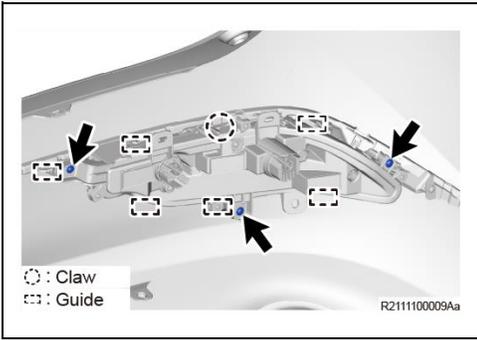
**Note:** The new rear turn signal light LED cannot be installed to the rear turn signal light lens and body (w/o cover) due to the difference of shape.



- b. Confirm that the connector of the rear turn signal light LED is horizontal.

**Critical** Make sure that the connector of the rear turn signal light LED is horizontal to prevent the connector from falling off.

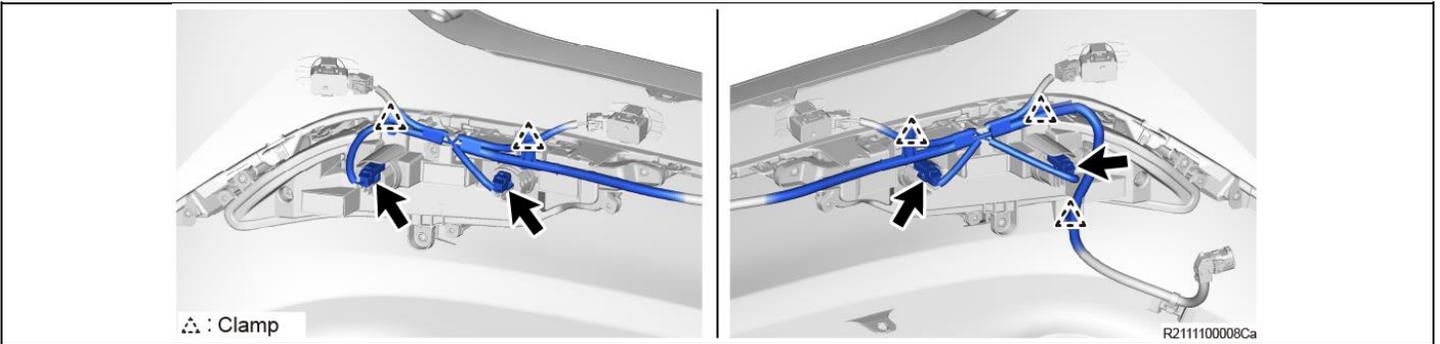
- c. Use the same procedure for the other side.



## 5. INSTALL REAR TURN SIGNAL LIGHT ASSEMBLY

- a. Engage the 6 guides and claw.
- b. Install the rear turn signal light assembly to the rear bumper with the 3 screws.
- c. Use the same procedure for the other side.

- d. Connect the 2 connectors (each side).
- e. Engage the clamps (3 clamps on the LH side/ 2 clamps on the RH side) to install the luggage room wire.

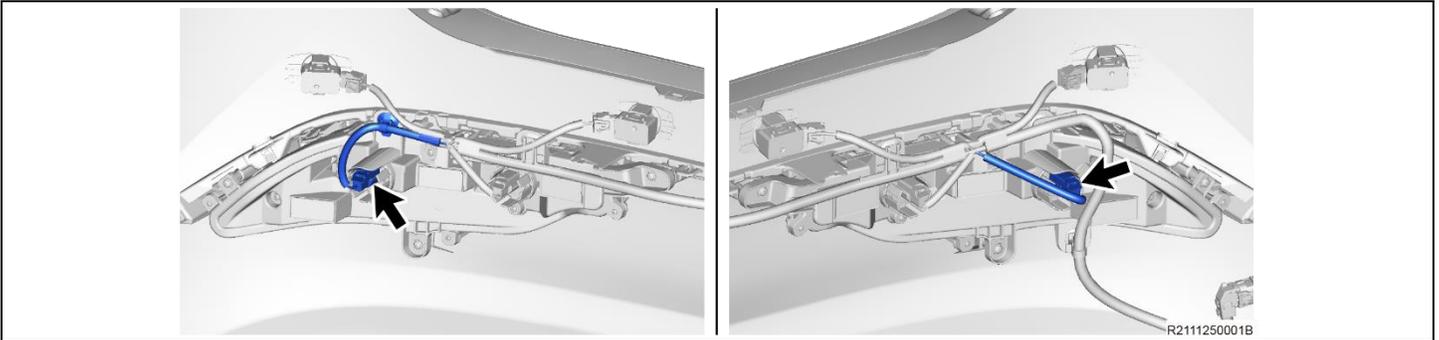


**Proceed to section X. REAR BUMPER INSTALLATION**

## REAR TURN SIGNAL LIGHT LED REPLACEMENT

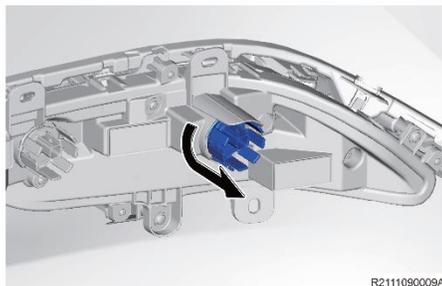
### 1. REMOVE REAR TURN SIGNAL LIGHT LED

- a. Disconnect the connector shown in the illustration.

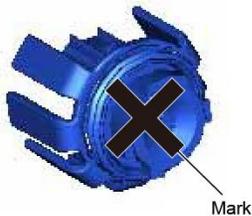


- b. Remove the rear turn signal light LED.  
c. Use the same procedure for the other side.

**Critical** ***DO NOT** touch the printed circuit board of the removed rear turn signal light LED.*



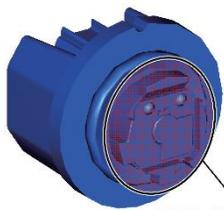
- d. Mark the removed rear turn signal light LED and store it in a separate container.



### 2. INSTALL **NEW** REAR TURN SIGNAL LIGHT LED

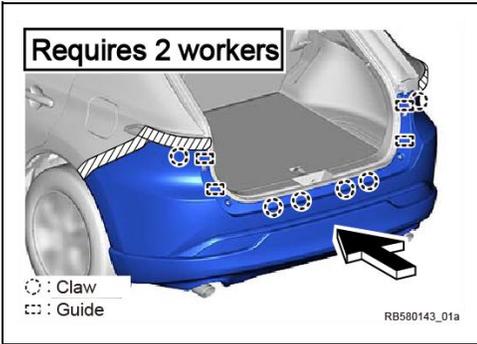
#### CRITICAL TIP

***DO NOT** touch the printed circuit board of the new rear turn signal light LED, since static electricity may damage the LED.*



***DO NOT** touch*





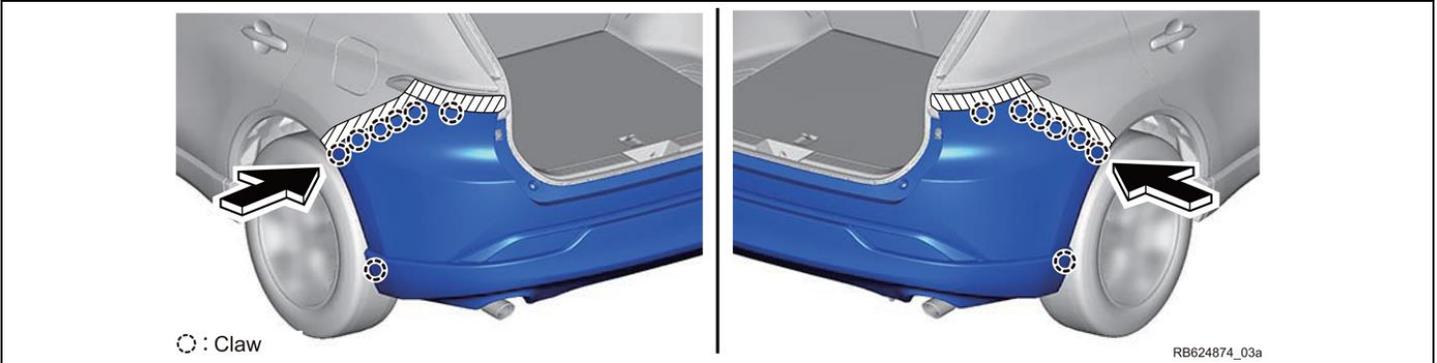
## 1. INSTALL REAR BUMPER ASSEMBLY

- a. After confirming that the parts on LH side and RH side are replaced with the new ones, engage the 4 guides and 6 claws and install the rear bumper assembly with another worker.

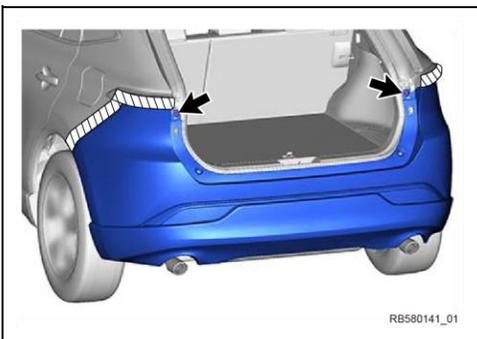
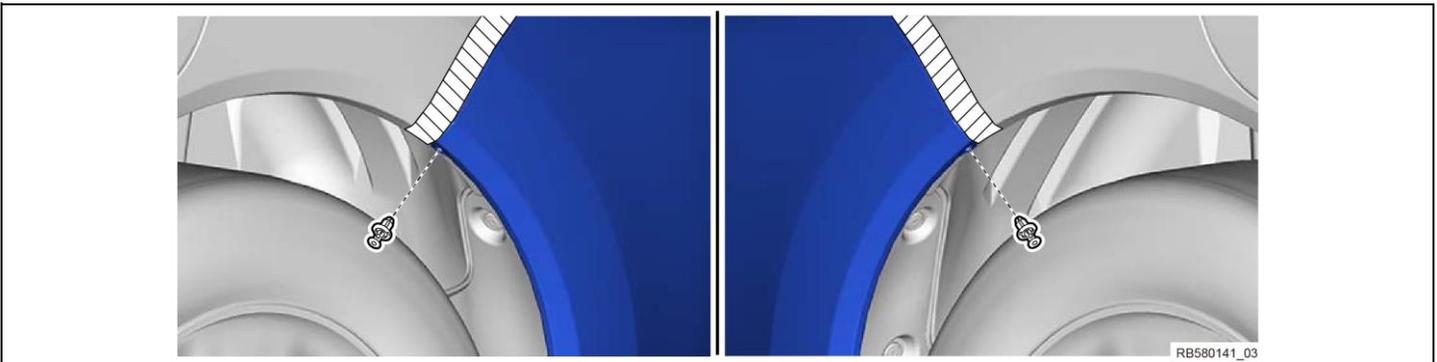


**Be careful not to let the harness on the back side of the rear bumper to get caught.**

- b. Engage the 14 claws shown in the illustration.



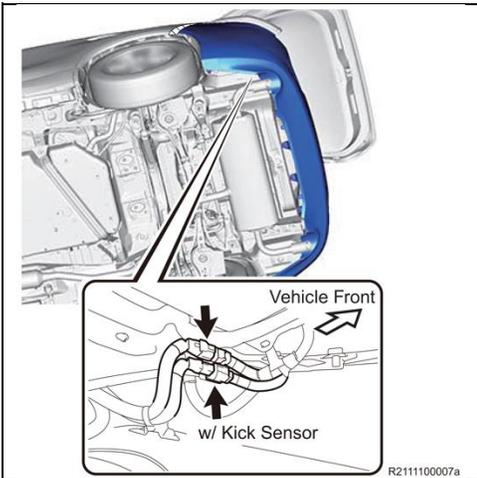
- c. Install the 2 clips from the left and right wheel house side (one clip on each side).



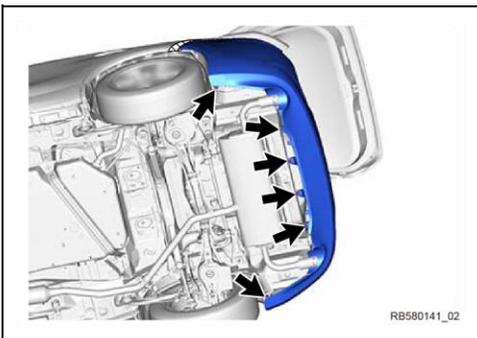
- d. Install the 2 screws.



e. Install the 2 rear bumper stoppers (screw and grommet).



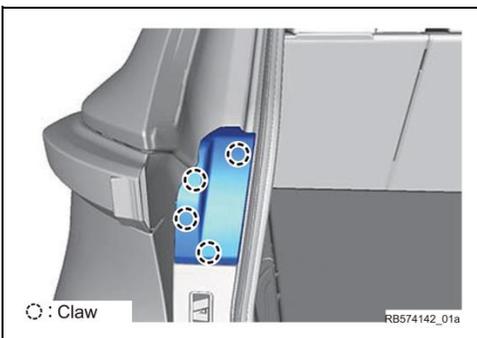
f. Connect the 2 connectors.



g. Install the 6 clips under the vehicle.

## 2. REMOVE PROTECTIVE TAPE

a. Remove protective tape and clean the surface.



## 3. INSTALL REAR COMBINATION LIGHT COVER

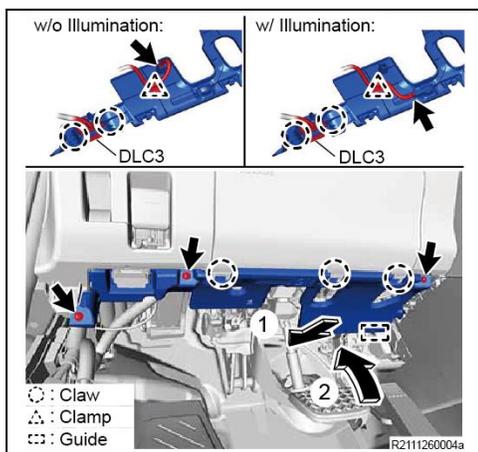
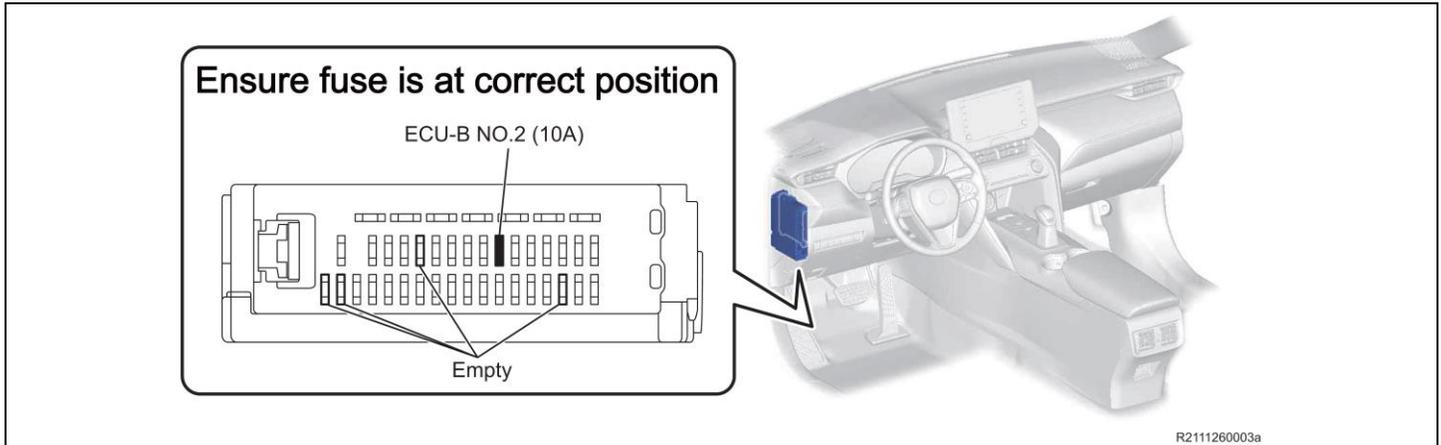
a. Engage the 4 claws and install the rear combination light cover LH.

b. Use the same procedure for the other side.

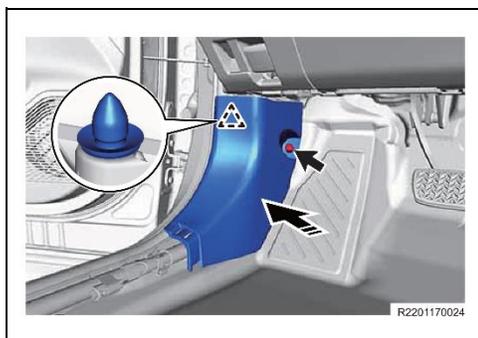
#### 4. INSTALL ECU-B NO.2 FUSE

- a. Install the ECU-B No.2 fuse to the power distribution box assembly.

**Note: Ensure you install the fuse at the correct position.**

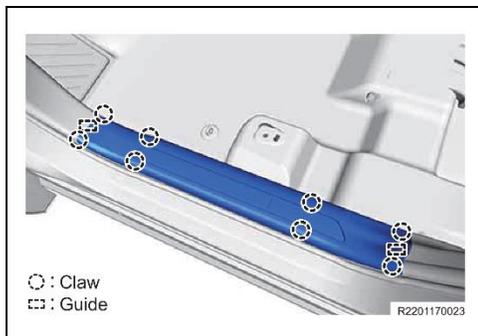


- b. Engage the clamp and connect the connector.
- c. Engage the 2 claws to connect the DLC3.
- d. Engage the guide and 3 claws as shown in the illustration.
- e. Install the No.1 instrument panel under cover sub-assembly with the 3 screws.



#### 5. INSTALL COWL SIDE TRIM BOARD LH

- a. Engage the clip as shown in the illustration.
- b. Install the cowl side trim board LH with the clip.



#### 6. INSTALL FRONT DOOR SCUFF PLATE LH

- a. w/ Illumination:
  - i. Connect the connector.
- b. Engage the 2 guides and 8 claws to install the front door scuff plate LH.

## 7. POWER BACK DOOR SYSTEM INITIALIZATION

- a. Fully close the back door by hand.

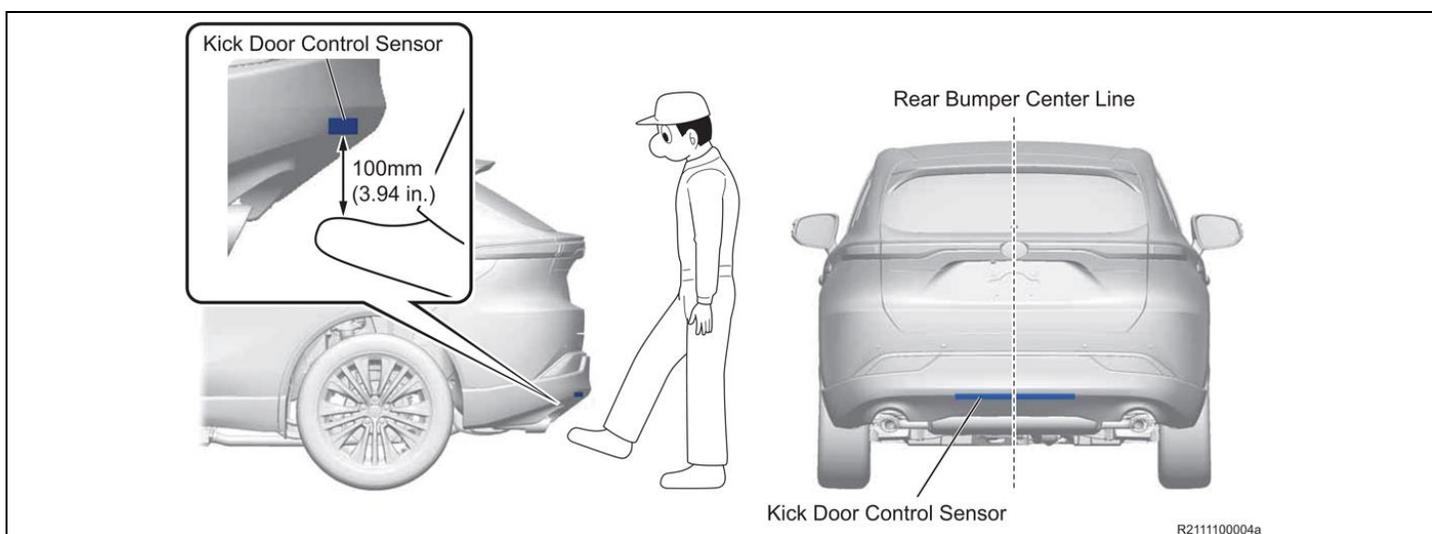
## 8. CHECK FOR DTCs

## 9. REAR TURN SIGNAL LIGHT ASSEMBLY OPERATION CHECK

- a. INSPECT REAR TURN SIGNAL LIGHT
- b. INSPECT BACK-UP LIGHT
- c. INSPECT TOYOTA PARKING ASSIST-SENSOR SYSTEM

## 10. CHECK HANDS FREE POWER BACK DOOR OPERATION

- a. With the ignition switch off and the electrical key transmitter sub-assembly being carried, check that the power back door operates when a kick operation is performed within 100 mm (3.94 in.) of the rear bumper surface.



## 11. RESTORE CUSTOMIZED ITEMS

- a. Restore the customized items that were recorded.

## ◀ VERIFY REPAIR QUALITY ▶

- Ensure all lights operate properly and the turn signal does not flash rapidly.
- Ensure all systems including power back door are initialized and operational.
- Ensure all tape has been removed from the vehicle.

### APPENDIX

#### 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

