

# **TECHNICAL INSTRUCTIONS**

**FOR**

## **SAFETY RECALL 23TA13**

**Potential Vehicle Fire related to 12-volt battery**

### **CERTAIN 2013 - 2018 RAV4 VEHICLES**

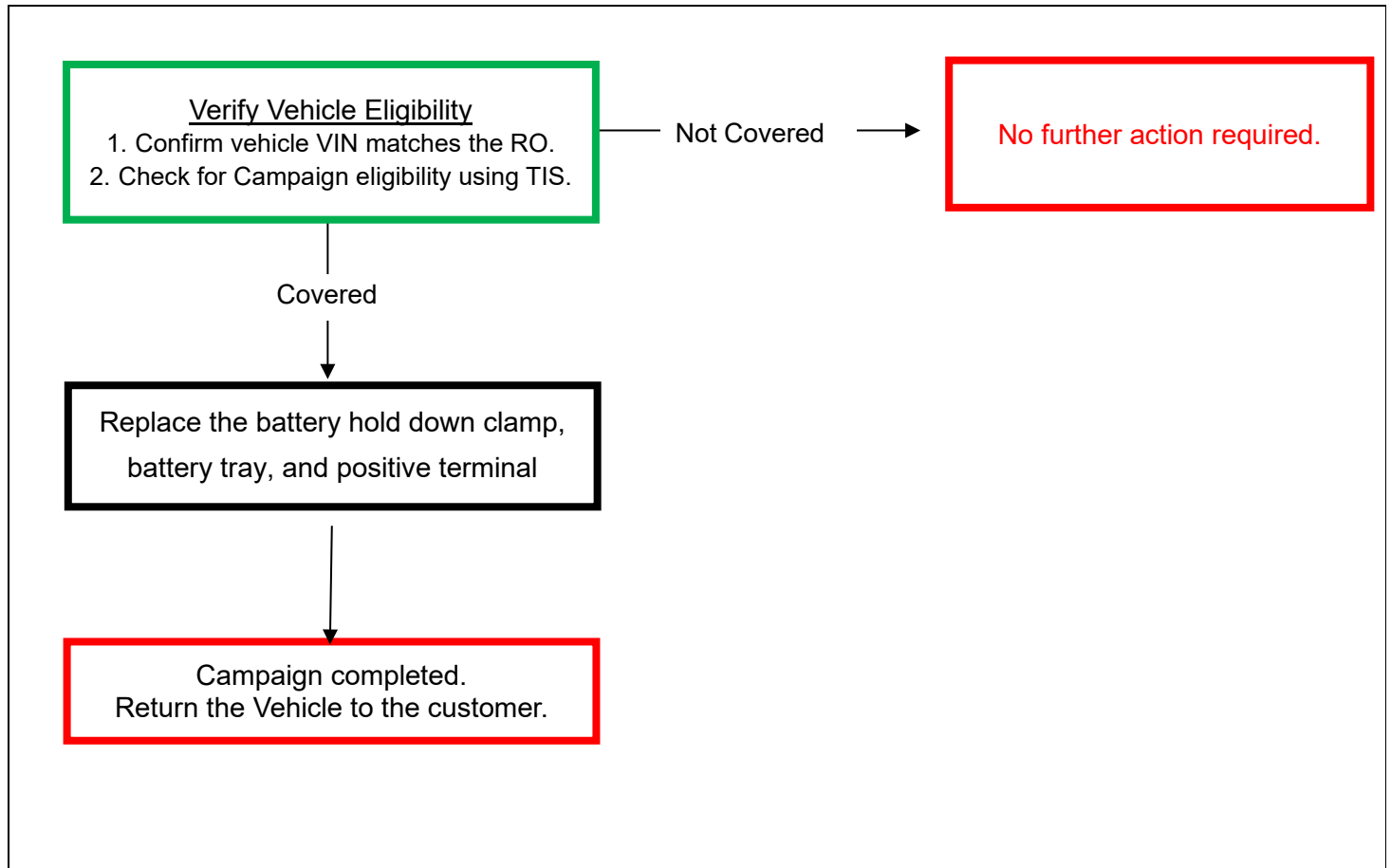
The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to currently have completed all of the following courses:

**-TIC206A Electrical Repair 1**

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

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. IDENTIFICATION OF AFFECTED VEHICLES

### 1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY

- Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.
- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

#### **HINT:**

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

### III. PREPARATION

#### A. PARTS

| Part Number                                  | Part Description                      | Quantity                     |                |
|--|---------------------------------------|------------------------------|----------------|
| 04004-02242                                  | Battery Repair Set                    | 1                            |                |
| *The kit above includes the following parts. |                                       |                              |                |
| <b>Part Number</b>                           | <b>Part Description</b>               | <b>Quantity</b>              | <b>Remarks</b> |
| 74404-42280                                  | Battery Clamp Sub-assembly            | 1                            | -              |
| 74431-42140                                  | Battery Tray                          | 1                            | -              |
| 74451-42030                                  | Battery Clamp Bolt (J-hook)           | 1                            | -              |
| 82821-35020                                  | Connector Cover                       | 1                            | -              |
| 82997-47010                                  | Wire Harness Repair Tape (Tessa Tape) | *As needed                   |                |
| 00411-21001                                  | Battery Label (10 labels per order)   | Order as needed from the MDC |                |

\*1 - roll should supply ~ 45 repairs, order additional tape as needed.

#### B. TOOLS & EQUIPMENT

- Standard Hand Tools
- Torque Wrench

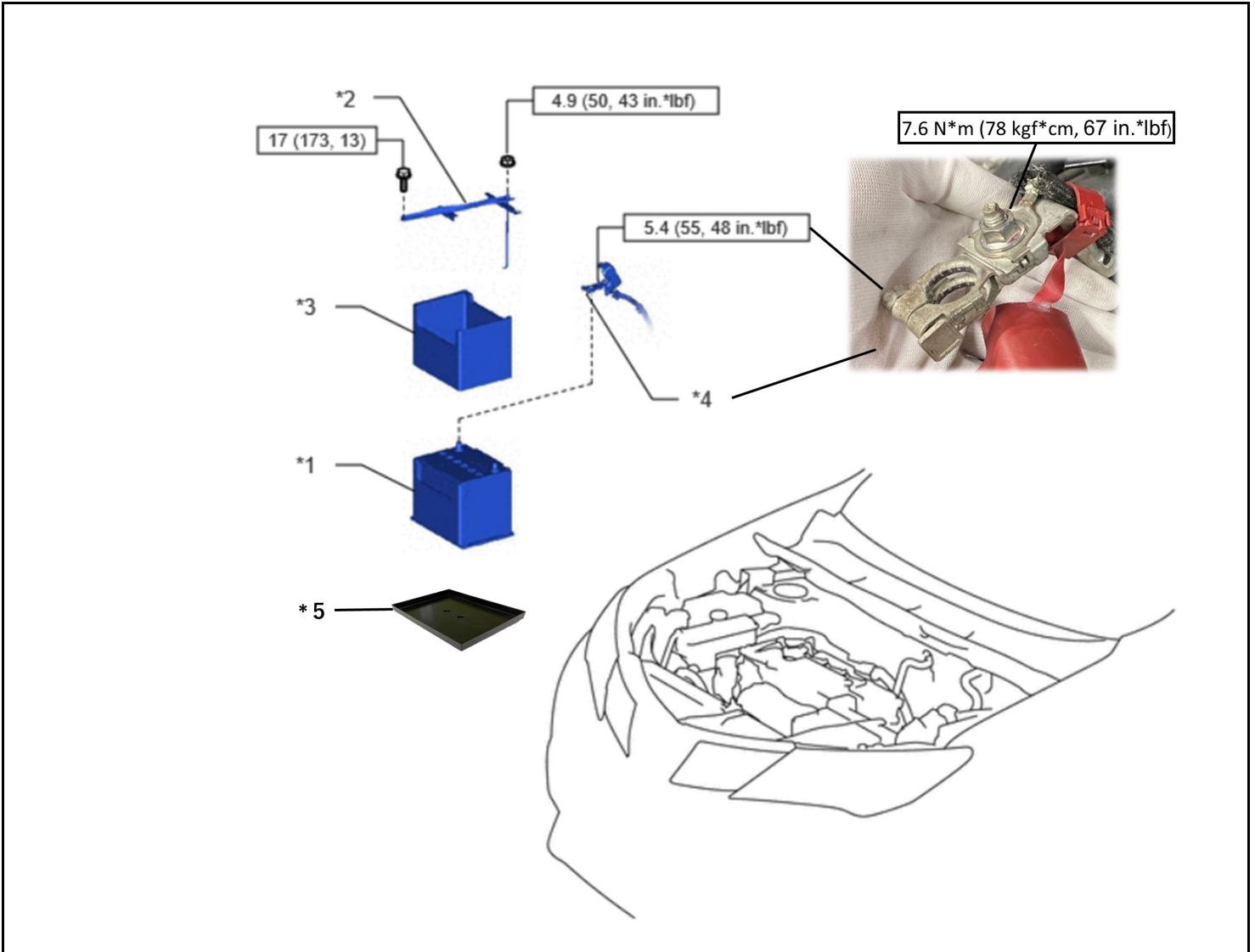
#### C. MATERIALS

- Protective Gloves

## IV. WORK PROCEDURE TABLE OF CONTENTS

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## V. COMPONENTS



|    |                   |    |   |
|----|-------------------|----|---|
| *1 | BATTERY           | *2 | BATTERY CLAMP SUB-ASSEMBLY              |
| *3 | BATTERY INSULATOR | *4 | POSITIVE BATTERY TERMINAL               |
| *5 | BATTERY TRAY      |    | Specified torque: N*m (kgf*cm, in.*lbf) |

## VI. REMOVE BATTERY

[Refer to TIS for instructions on General / MAINTENANCE/2AR-FE BATTERY/REMOVAL](#)

## VII. REPAIR AND REPLACE BATTERY RELATED PARTS



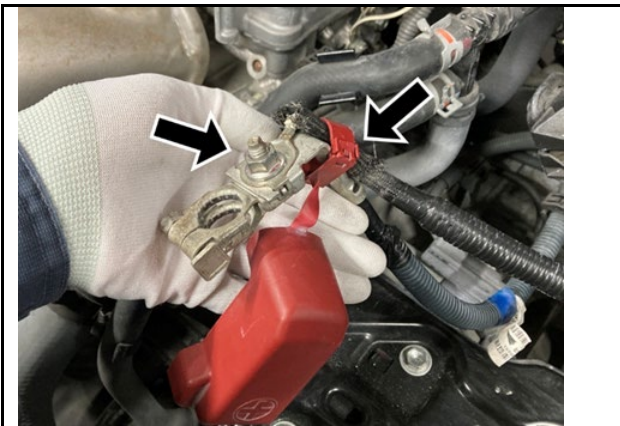
1. REMOVE BATTERY TRAY.



2. CUT FRONT WIRE HARNESS CLAMP.

**NOTICE:**

Be careful not to damage the harness.



3. REMOVE HEAD OF POSITIVE (+) BATTERY TERMINAL AND BATTERY CONNECTOR COVER.

- a) Remove the nut and the head of the positive (+) battery terminal.
- b) Remove the battery connector cover.

#### 4. WRAP REPAIR TAPE (Tessa Tape).

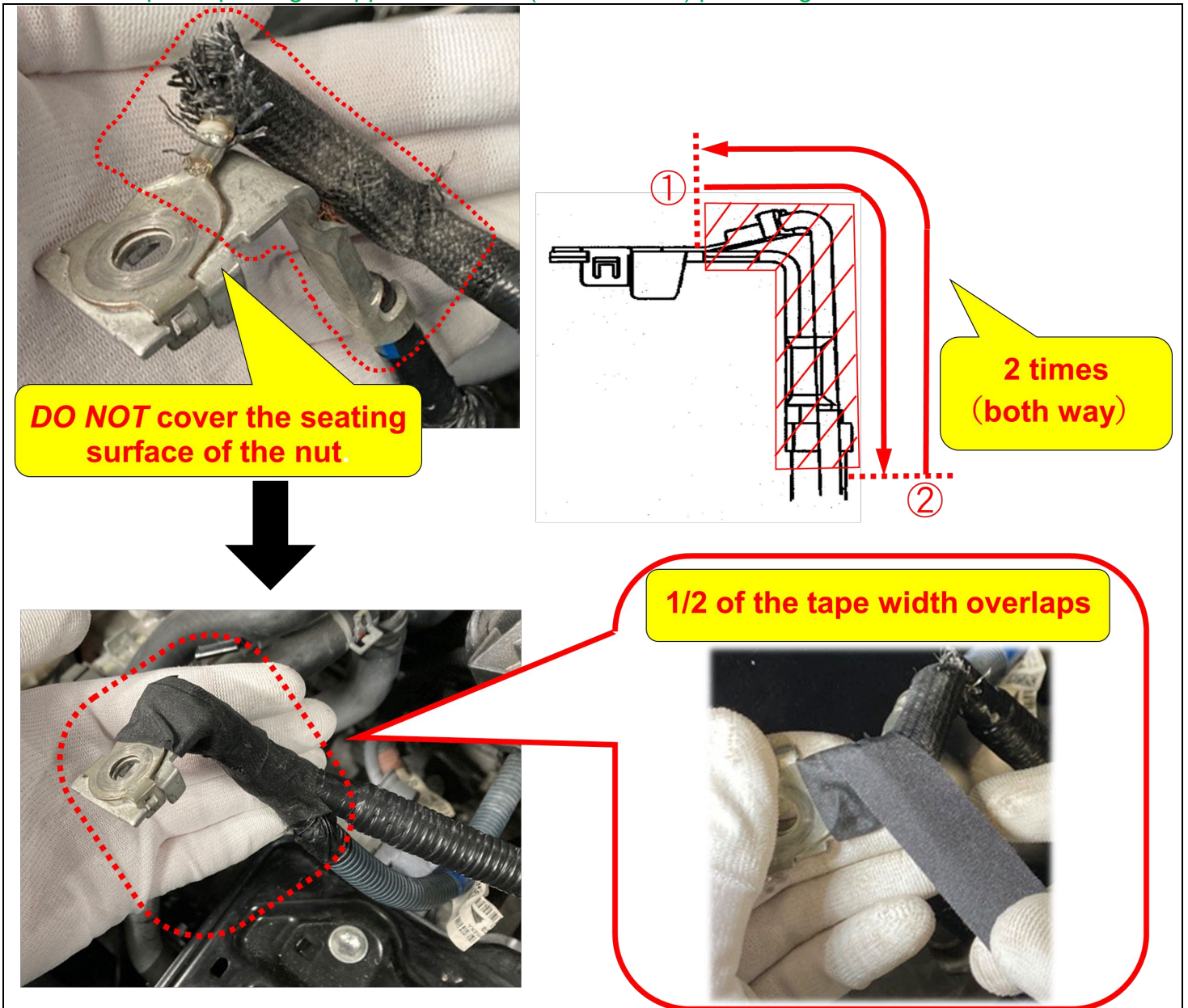
a) Wrap the terminal area (metal area) spirally as shown in the illustration with repair tape.

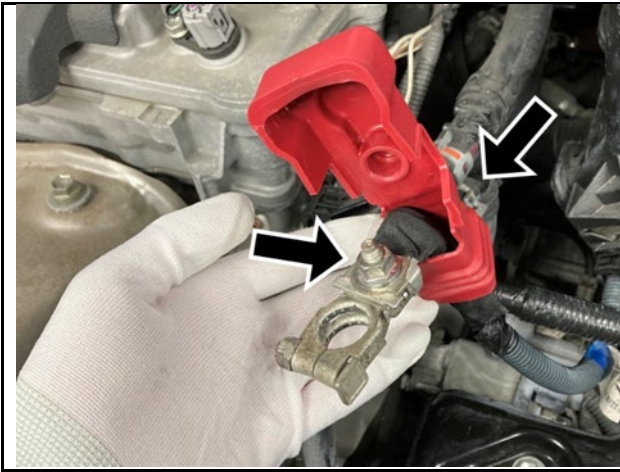
##### NOTICE:

- Ensure that the terminal area (metal area) is completely covered by repair tape.
- Wrap the tape spirally with 1/2 of the tape width overlaps as shown in the illustration and wrap the tape another time in the opposite direction.
- **DO NOT** cover the seating surface of the nut.

##### HINT:

Repair tape length: approx. 400mm (15.75 inches) per a single rework.



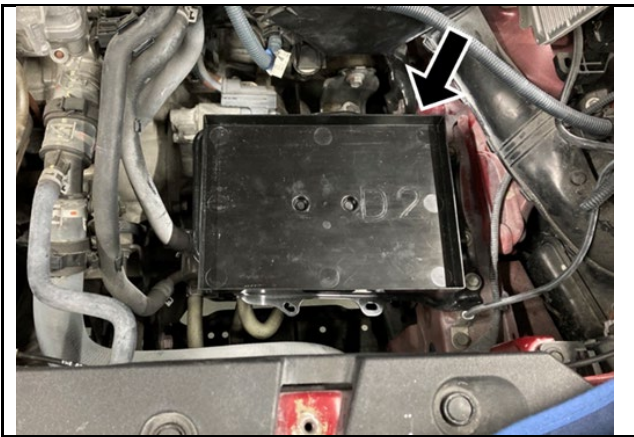


5. INSTALL HEAD OF POSITIVE (+) TERMINAL AND **NEW** CONNECTOR COVER.

- a) Install a **New** battery connector cover.
- b) Install the head of the positive (+) battery terminal and tighten the nut.

Torque:

7.6 N\*m (78 kgf\*cm, 67 in.\*lbf)



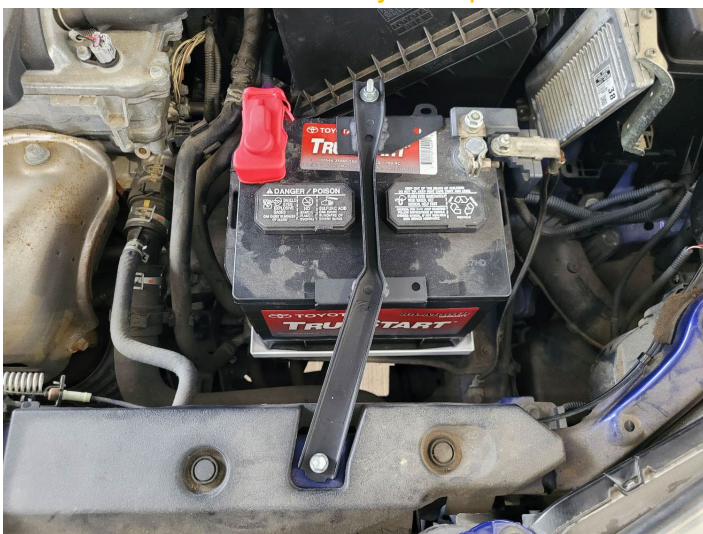
6. INSTALL **NEW** BATTERY TRAY.

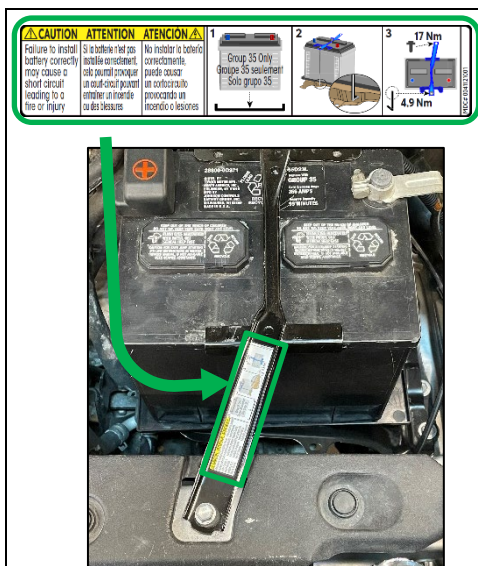
## VIII. INSTALL BATTERY and ADHERE CAUTION LABEL

[Refer to TIS for instructions on General / MAINTENANCE/2AR-FE BATTERY/ INSTALLATION](#)

**NOTICE:**

- when installing the battery, attaching the front wire harness only is necessary.
- Install a **NEW** battery clamp and a **NEW** J-hook.





## ADHERE CAUTION LABEL TO BATTERY HOLD-DOWN CLAMP

- a. Check to see if label is installed already.
- b. If not installed, adhere new caution label to the battery hold-down clamp.

### NOTE:

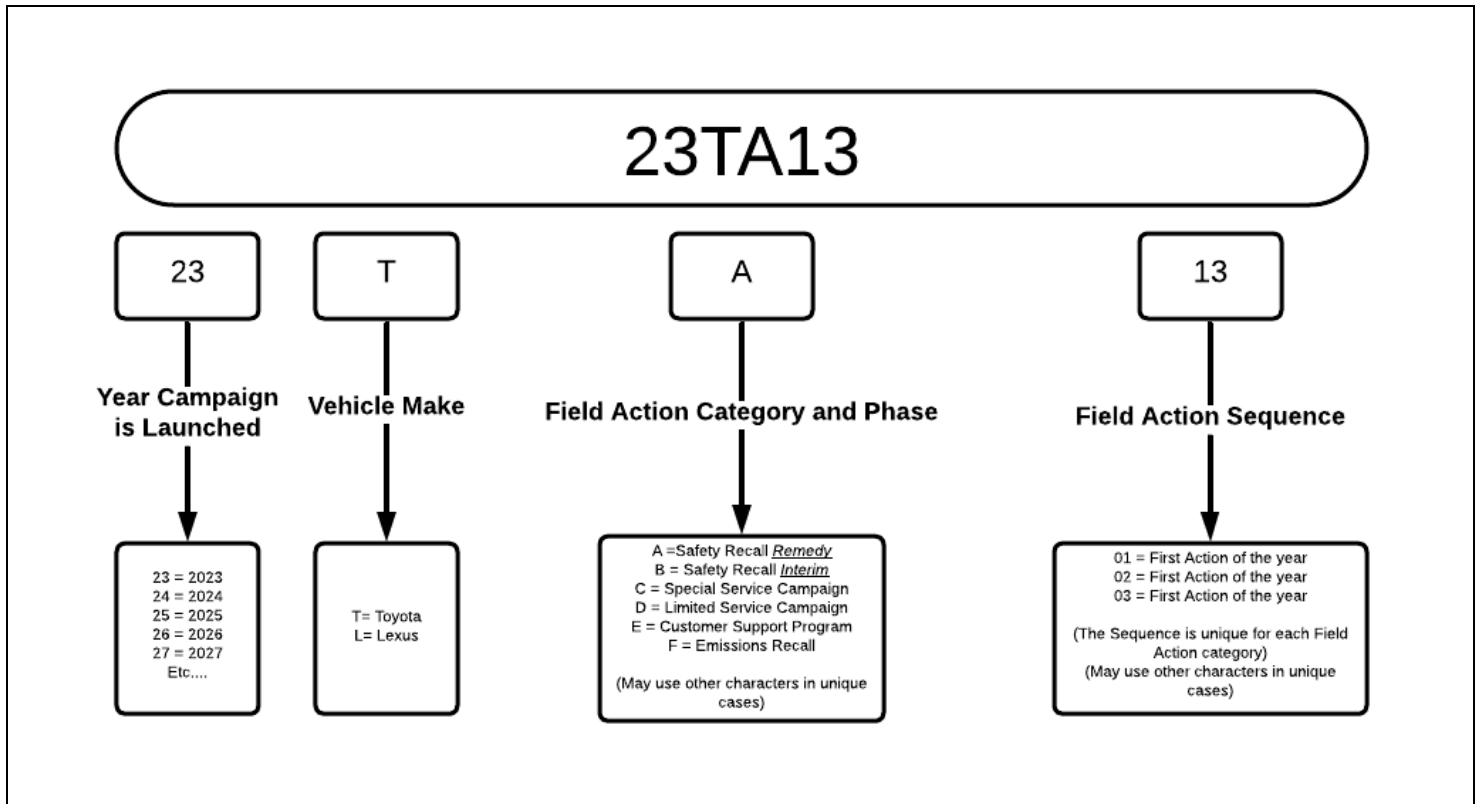
- Ensure battery hold-down clamp is clean and free of moisture or dirt so the label can properly adhere.
- Labels may be ordered from the MDC.

## ◀ VERIFY REPAIR QUALITY ▶

- Confirm repair parts are installed exactly as instructed.
- If you have any questions regarding this update, please contact your area representative.

# IX. APPENDIX

## A. CAMPAIGN DESIGNATION DECODER



### Examples:

20TA01 = Launched in 2020, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2020

21TC02 = Launched in 2021, Special Service Campaign, 2nd Special Service Campaign Launched in 2021

22TE05 = Launched in 2022, Customer Support Program, 5th Customer Support Program Launched in 2022