

**TECHNICAL INSTRUCTIONS**

**FOR**

**SAFETY RECALL 20TA12**

**FRONT TURN SIGNAL BULB BRIGHTNESS**

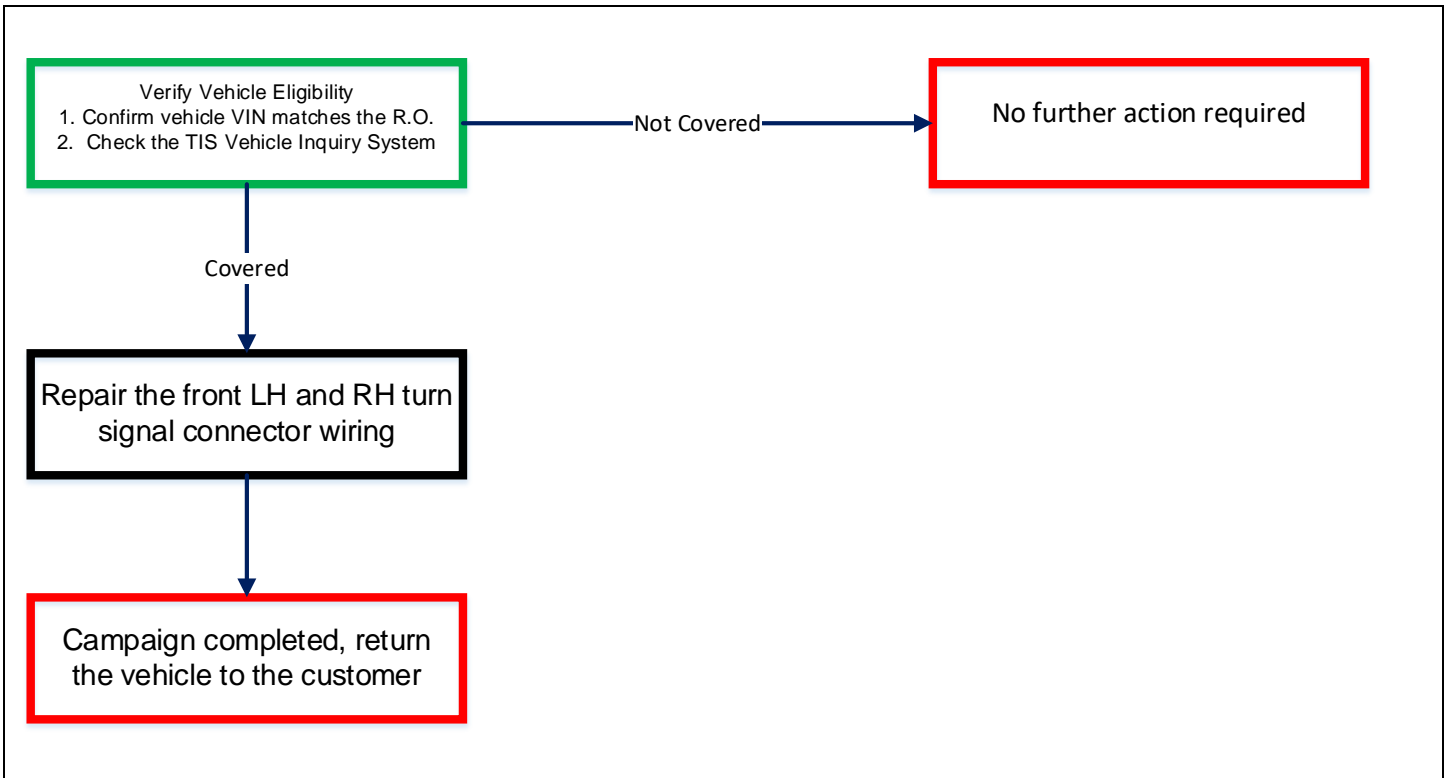
**CERTAIN 2018 - 2020 TUNDRA**

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 hold at least one of the following certification levels:

- Certified (Electrical)
- Expert (any specialty)
- Master
- Master Diagnostic Technician

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.

## I. OPERATION FLOW CHART



## II. IDENTIFICATION OF AFFECTED VEHICLES

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

Note: 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

No parts required for repair on this campaign.

#### B. TOOLS & EQUIPMENT

- Standard Hand Tools
- Torque Wrench

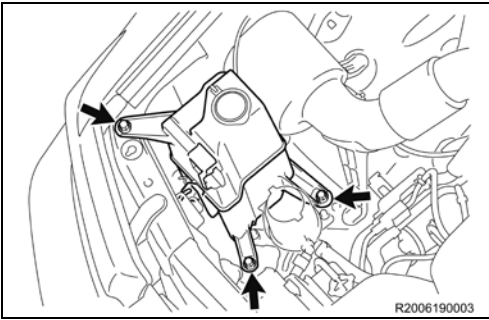
SST – Special Service Tools required for this repair:



#### C. MATERIALS

- Protective Tape
- Protective Gloves
- Protective Eyewear
- Step stool

## IV. DISASSEMBLE FRONT TURN SIGNAL LIGHT CONNECTOR



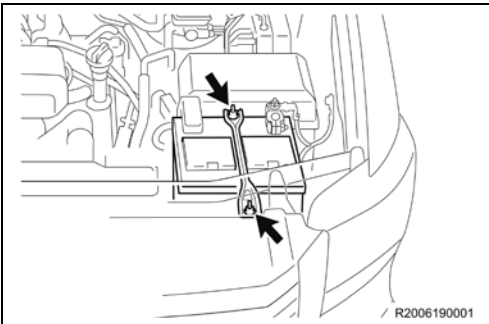
### 1. REPOSITION WASHER RESERVOIR

- a. Remove the 3 bolts holding the washer reservoir to the vehicle body.

- b. Reposition the reservoir as far inboard as possible.

**Note:**

**It is not necessary to disconnect any hoses or electrical connectors.**



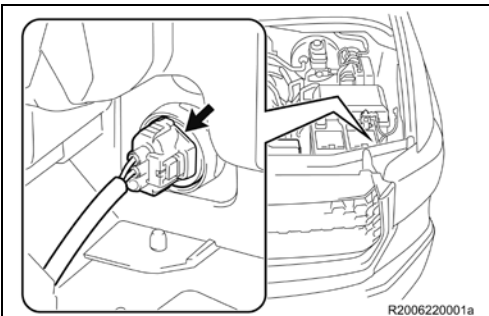
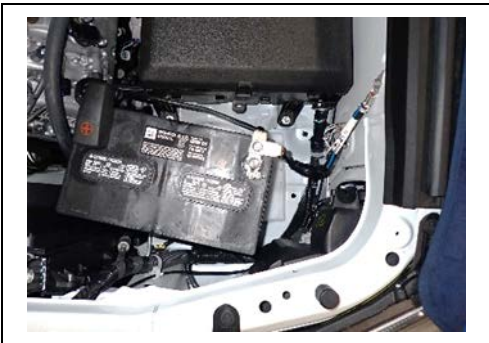
### 2. REPOSITION BATTERY

- a. Remove the 2 nuts, 2 battery clamp bolts and battery hold down clamp.

- b. Reposition the battery as far inboard as possible.

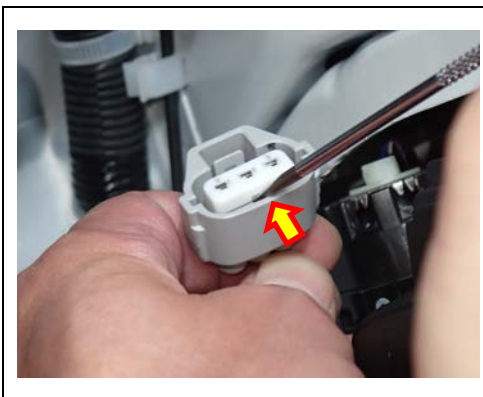
**Note:**

**It is not necessary to disconnect battery terminals.**



### 3. DISCONNECT TURN SIGNAL LIGHT CONNECTOR LH & RH

- a. Disconnect the turn signal light connector.
- b. Use the same procedure for LH side and RH side.



**4. REMOVE SECONDARY LOCK LH & RH**

- a. Gently remove the white secondary lock taking care not to damage it.

**Note:**

**Inserting a small flat head screwdriver on the bottom side of the secondary lock and then pulling upward is an effective way of releasing the lock.**

- b. Use the same procedure for LH side and RH side.



**5. REMOVE RUBBER SEALING PLUG LH & RH**

- a. Using a paper clip or similar, push out the rubber sealing plug from the outside cavity of the connector.

**Note:**

**Be sure to save this plug as it will be reused.**

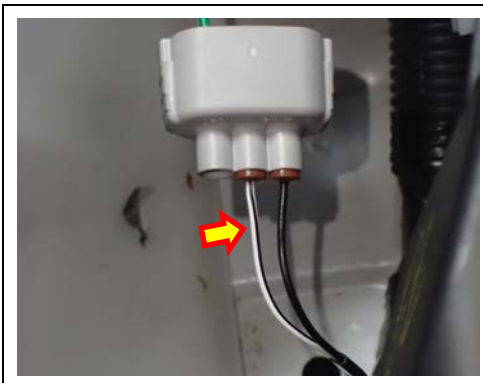


**DO NOT LOSE THE RUBBER SEALING PLUG!**

*Use your hand to catch the rubber sealing plug as you push it out of the connector*



- b. Use the same procedure for LH side and RH side.



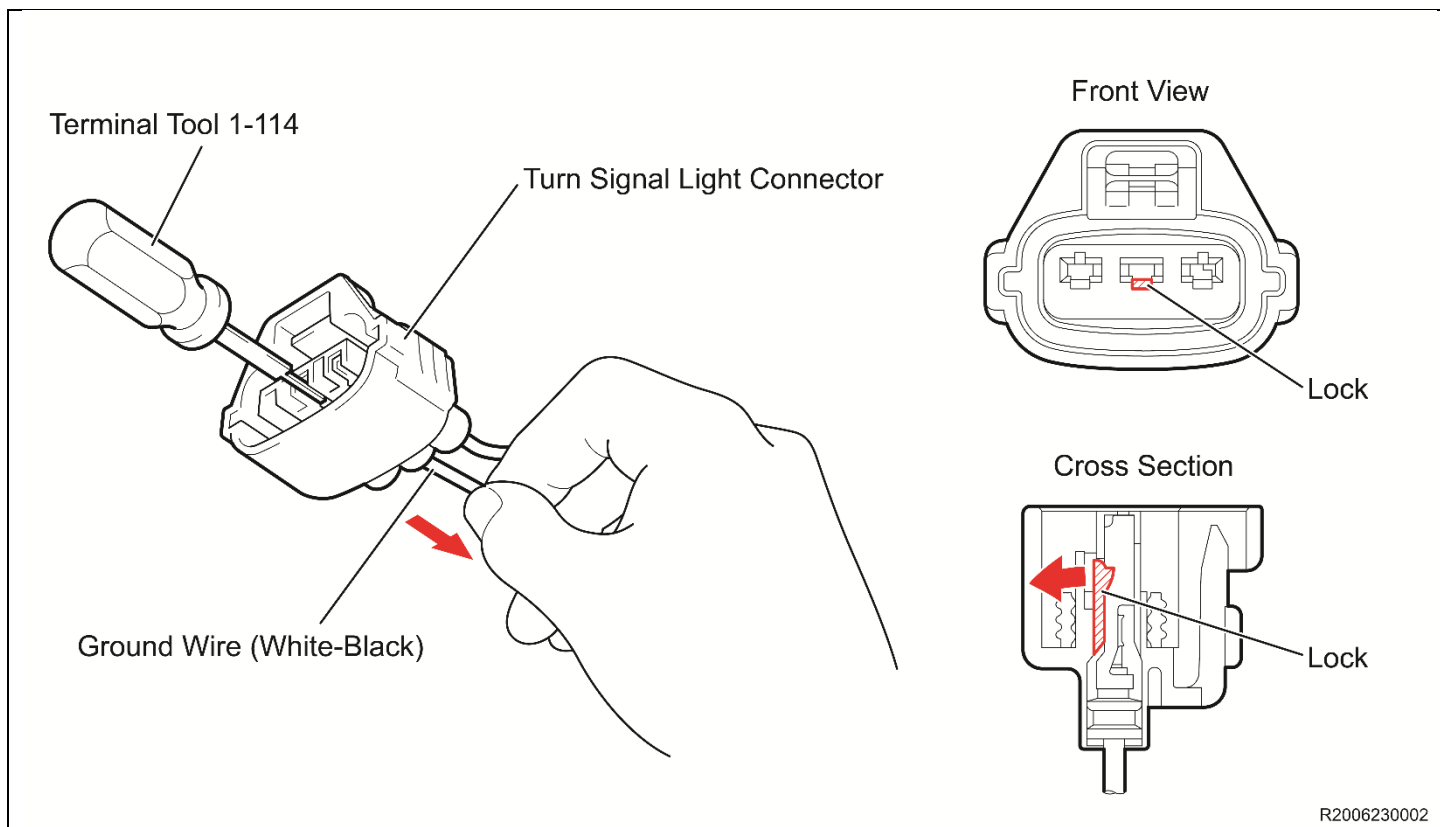
**6. REMOVE THE GROUND WIRE LH & RH**

- a. Identify the white wire with a black stripe, located in the center cavity of the connector.

- b. Using the supplied Terminal Tool 1-114, release the primary lock of the terminal while pulling outward on the wire to remove it from the connector. **DO NOT** overstress the terminal lock or it will not properly hold the terminal when reassembled.

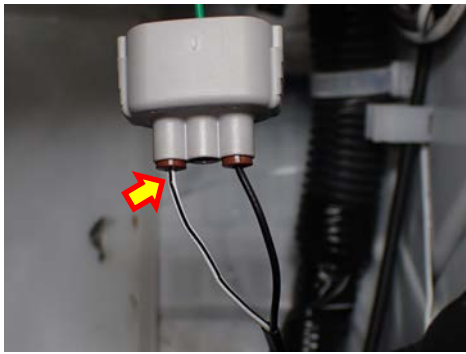


When inserting the Terminal Tool 1-114, pry carefully outward just enough to remove the terminal from the wire side. Excessive pressure may damage the lock, or bend the tool.



- c. Use the same procedure for LH side and RH side.

## V. REASSEMBLE FRONT TURN SIGNAL LIGHT CONNECTOR

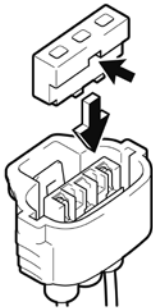


1. **INSTALL GROUND WIRE IN OUTSIDE CAVITY LH & RH**
  - a. Install the wire in the outside cavity of the connector.



**Notice that there is only one direction the terminal will engage the cavity of the connector.**

- b. Pull outward gently on the wire to confirm that it is properly engaged in the connector.
- c. Use the same procedure for LH side and RH side.



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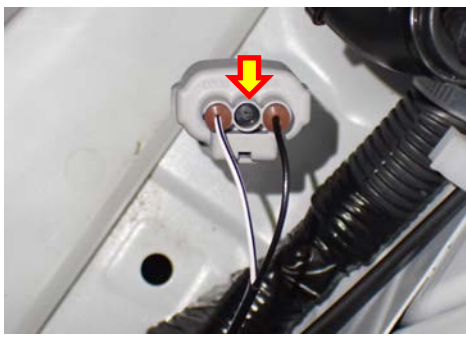
2. **REINSTALL SECONDARY LOCK LH & RH**

- a. Reinstall the secondary terminal lock.



**Notice that there is only one direction the secondary terminal lock will engage the connector.**

- b. Use the same procedure for LH side and RH side.



3. **INSTALL RUBBER SEALING PLUG LH & RH**

- a. Install the rubber sealing plug into the center connector cavity.

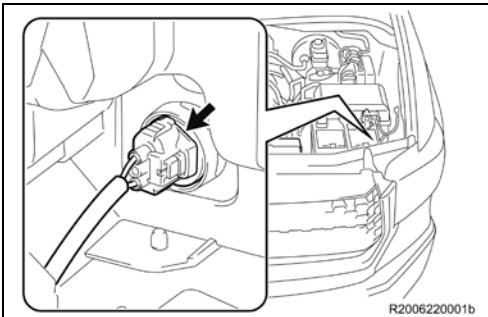
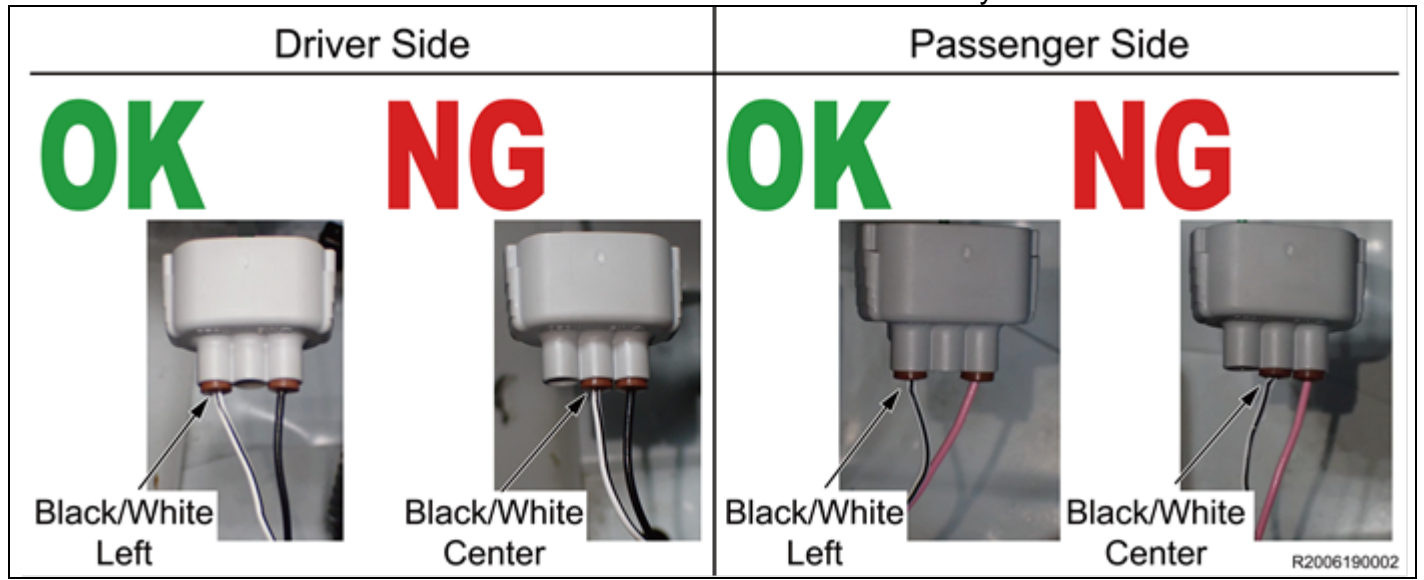


**DO NOT LOSE THE RUBBER SEALING PLUG!**

- b. Use the same procedure for LH side and RH side.

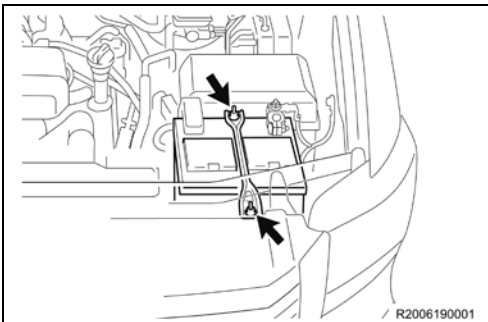
## CHECK VISUALLY

a. Make sure that the wire is installed to the connector correctly as shown below.



#### 4. RECONNECT TURN SIGNAL LIGHT CONNECTOR LH & RH

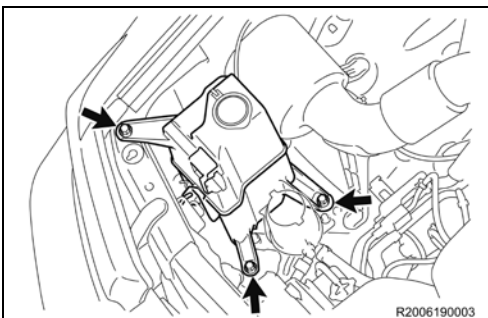
- a. Connect the turn signal light connector.
- b. Use the same procedure for LH side and RH side.



#### 5. REINSTALL BATTERY

- a. Reposition the battery correctly in the battery tray.
- b. Install the battery hold down clamp with the 2 battery clamp bolts and 2 nuts.

**Torque: 5.4 N\*m (55 kgf\*cm, 48 in.\*lbf)**



#### 6. REINSTALL WASHER RESERVOIR

- a. Install the 3 bolts holding the washer reservoir to the vehicle body.

**Torque: 3.5 N\*m (36 kgf\*cm, 31 in.\*lbf)**



## ◀ VERIFY REPAIR QUALITY ▶

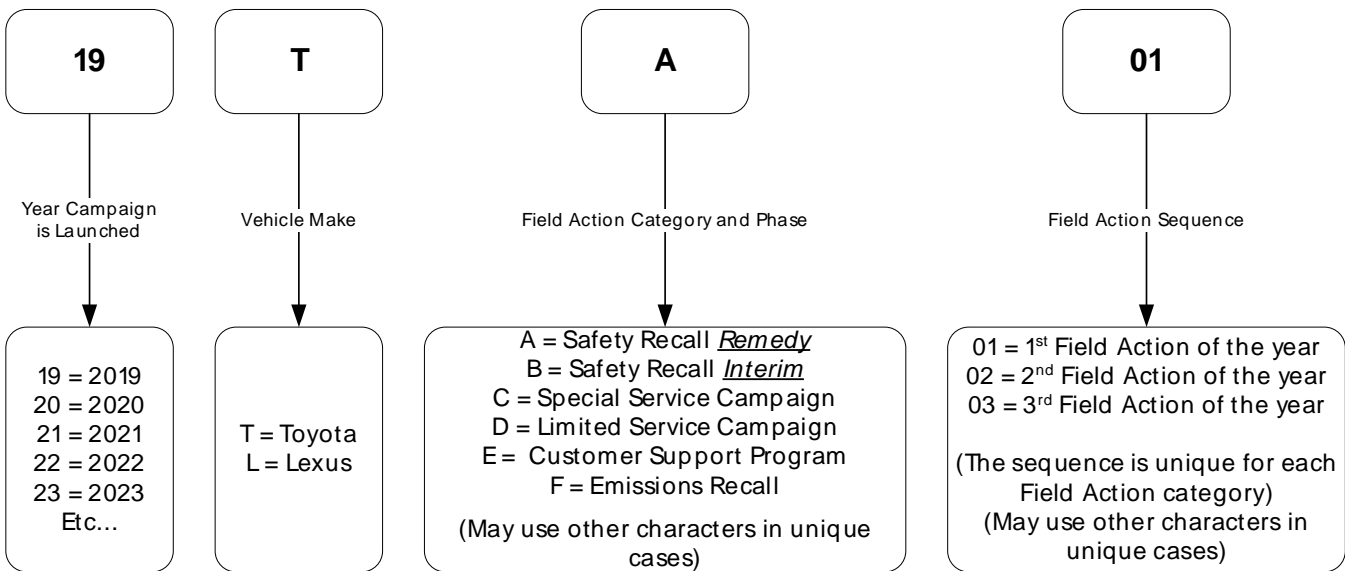
- Confirm that both turn signal bulbs flash.
- Confirm there are no obvious difference in brightness between the LH & RH front turn signal.

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

### VI. APPENDIX

#### A. CAMPAIGN DESIGNATION DECORDER

# 19TA01



**Examples:**

**19TA01 = Launched in 2019, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2019**  
**20TC02 = Launched in 2020, Special Service Campaign, 2nd Special Service Campaign Launched in 2020**  
**21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021**