

# Advanced Drive Performance Enhancements

Service  
Category ADAS/AD

Section Advanced Driver Assistance SystemMarket USA

Toyota Supports  
ASE Certification 

Applicability

| YEAR(S)     | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|----------|------------------------|
| 2022 - 2023 | Mirai    |                        |

REVISION NOTICE

- August 25, 2026 Rev1:
- Applicability has been updated to include 2023 model year Mirai vehicles.
  - The Introduction, Required Tools & Equipment, and Software Update Procedure sections have been updated.
- Any previous printed version of this bulletin should be discarded.

Introduction

Some 2022 model year Mirai vehicles are equipped with Toyota Teammate Advanced Drive. This system provides driving support through automated steering, acceleration, and braking under specific operating conditions within controlled access highways. Toyota Teammate Advanced Drive utilizes an array of sensors and cameras, high-definition maps, and the vehicle navigation system to provide hands-free (SAE level: 2) driving assistance for engaged drivers. Updates to enhance Toyota Teammate Advanced Drive operation or to add features/functions are delivered to the vehicle directly through the Toyota Teammate multimedia head unit (earlier than version 5.00). The updates include the following:

- Updates the Advanced Drive messages and displays.
- Reduces the frequency of prompts to hold the steering wheel in certain circumstances (e.g., facial recognition impact reduced when wearing a medical mask).
- Increases scenarios where lane change assist can be used.
- Adjusts the speed to help avoid blind spots of other vehicles in adjacent lanes.
- Enhances peripheral recognition using LiDARs.
- Reduces lane change assist activation when standard construction cones or barrels are detected.
- Alerts the driver to nearby vehicles at certain highway entrance merging areas during low-speed driving.
- Alerts driver when approaching a much slower vehicle ahead.
- Increases the maximum Advanced Drive set speed to 85 mph.

## Advanced Drive Performance Enhancements

### Introduction (continued)

Some 2022 – 2023 model year Mirai vehicles are equipped with Toyota Teammate Advanced Drive. This system provides driving support through automated steering, acceleration, and braking under specific operating conditions within controlled access highways. Toyota Teammate Advanced Drive utilizes an array of sensors and cameras, high definitions maps, and the vehicle navigation system to provide hands-free (SAE level: 2) driving assistance for engaged drivers. Updates to enhance Toyota Teammate Advanced Drive operation or to add features/functions are delivered directly to the vehicle (earlier than version 5.01). The updates include the following:

- Adjusts the emergency support brake activation timing.
- Adjusts the conditions to warn for merging vehicles at low speed.
- Increases scenarios where lane change assistance can be used.

The release notes text below will be displayed to the customer:

“Adjusts the emergency support brake activation timing. Adjusts the conditions to warn for merging vehicles at low speed. Increases scenarios where lane change assistance can be used.”

Follow the Software Update Procedure section in this bulletin to complete these updates.

### Warranty Information

| OP CODE | DESCRIPTION     | TIME | OFP           | T1 | T2 |
|---------|-----------------|------|---------------|----|----|
| EL2420  | Software Update | 1.3  | 86140-62####* | 87 | 74 |

\*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

#### **APPLICABLE WARRANTY**

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

# Advanced Drive Performance Enhancements

## Required Tools & Equipment

| REQUIRED EQUIPMENT            | SUPPLIER | PART NUMBER  | QTY |
|-------------------------------|----------|--------------|-----|
| Techstream ADVi*              | ADE      | TSADVUNITECP | 1   |
| Techstream Lite               |          | TSLP3DLR01   |     |
| Techstream Lite (Green Cable) |          | TSLP2DLR01   |     |

\*Essential SST.

### NOTE

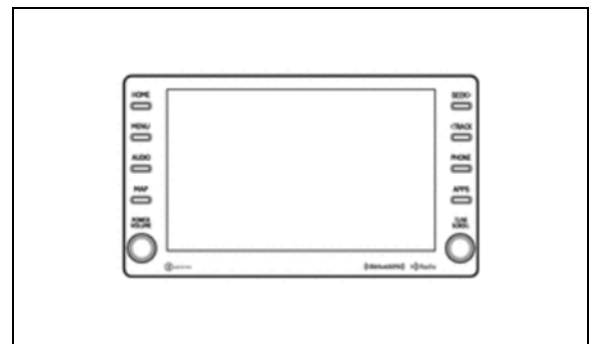
- Only ONE of the Techstream units listed above is required.
- GTS+ Software version 2026.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

## Software Update Procedure

### Determine Head Unit Generation

1. Is the vehicle equipped with a Toyota Premium Audio (17+) head unit (available in 2022 model year vehicles)?
  - **YES** — Go to [Section 1 – Toyota Premium Audio \(17+\) Head Unit Software Update](#) section.
  - **NO** — Continue to step 2.

**Figure 1. Toyota Premium Audio (17+) Head Unit**



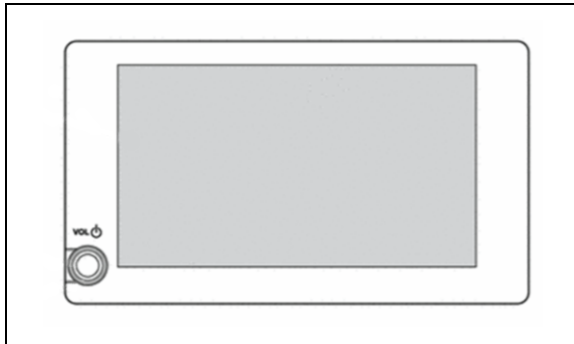
## Advanced Drive Performance Enhancements

### Software Update Procedure (continued)

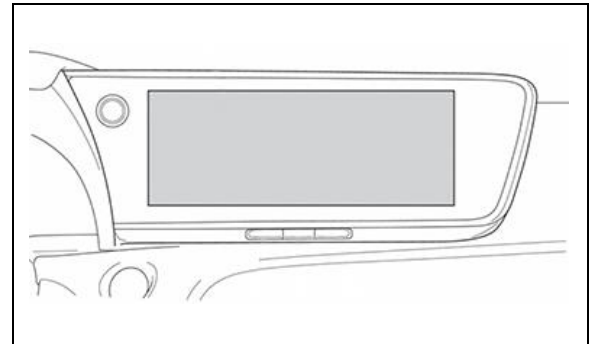
#### Determining Head Unit generation (continued)

2. Is the vehicle equipped with a Toyota Audio Multimedia (21MM) head unit (available starting in 2023 model year vehicles)?

**Figure 2. Toyota Audio Multimedia (21MM) Head Unit**



**Figure 3. Toyota Audio Multimedia (21MM) Head Unit**



- **YES** — Go to [Section 2 – Toyota Audio Multimedia \(21MM\) Head Unit Software Update](#) section.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

#### Section 1 – Toyota Premium Audio (17+) Head Unit Software Update

1. BEFORE downloading the latest version of Toyota Teammate Advanced Drive, confirm the vehicle has a strong cellular signal as the update is done via Over the Air (OTA), NOT Techstream.

**NOTE**

Move the vehicle outside if the building is causing a weak cell signal. The download can take up to one hour. Ensure you are parked in a safe location.

2. Turn the vehicle ON (key ON engine ON).

**CAUTION**

If the update is being performed indoors, ensure that the exhaust extraction vents have been attached.

## Advanced Drive Performance Enhancements

## Software Update Procedure (continued)

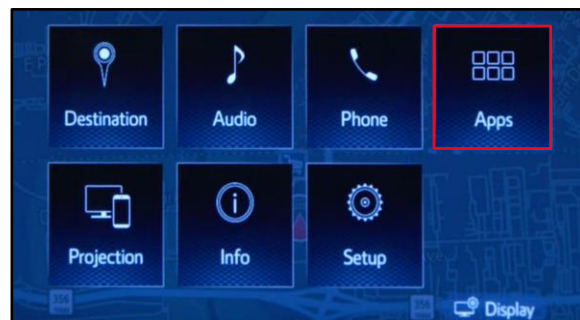
## Section 1 – Toyota Premium Audio (17+) Head Unit Software Update (continued)

3. Select Apps on the multimedia home screen.
4. Navigate to the Services page within the Enform App Suite and select the SWUapl icon.
5. Once synced, select Next to go to the Terms of Service page.
6. Select Agree; this will start the download process.

NOTE

- This can take several minutes.
- Steps 5 and 6 are **ONLY** required during the first OTA update.

**Figure 4.**

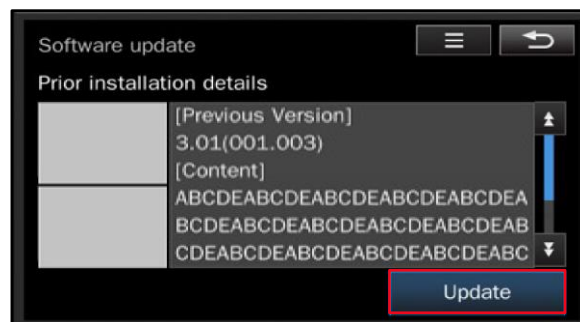


### Figure 5. Download Process



7. Once the download has completed, confirm the current and NEW versions of the software match the below table and select Update to start the installation.

**Figure 6.**



### Table 1. Software Version Information

| TYPE           | CURRENT VERSION                | NEW VERSION       |
|----------------|--------------------------------|-------------------|
| Advanced Drive | Earlier than 5.00<br>(0030004) | 5.01<br>(0050003) |

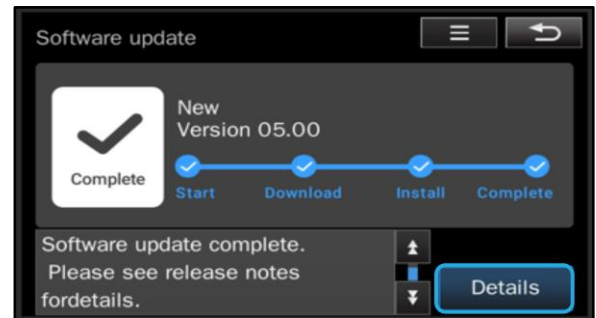
## Advanced Drive Performance Enhancements

### Software Update Procedure (continued)

#### Section 1 – Toyota Premium Audio (17+) Head Unit Software Update (continued)

8. Once the installation is complete, the bottom notification window will show “Software update complete” as shown in Figure 7.
9. Cycle the ignition to IG-OFF and back to IG-ON.
10. Using GTS+, perform a Health Check to confirm there are NO system issues or DTCs present once the download is complete.

Figure 7.



#### Section 2 – Toyota Audio Multimedia (21MM) Head Unit Software Update

1. BEFORE downloading the latest version of Toyota Teammate Advanced Drive, confirm the vehicle has a strong cellular signal as the update is done via Over the Air (OTA), NOT Techstream.

**NOTE**

Move the vehicle outside if the building is causing a weak cell signal. The download can take up to one hour. Ensure you are parked in a safe location.

2. Turn the vehicle ON (key ON engine ON).

**CAUTION**

If the update is being performed indoors, ensure that the exhaust extraction vents have been attached.

## Advanced Drive Performance Enhancements

### Software Update Procedure (continued)

#### Section 2 – Toyota Audio Multimedia (21MM) Head Unit Software Update (continued)

3. Go into the Toyota App in Android or Apple device.

**NOTE**

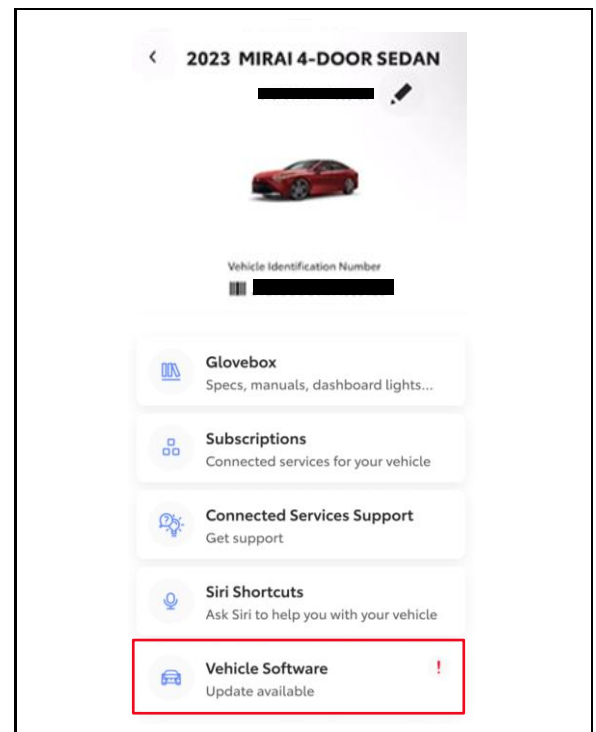
There should be a notification from the app like the one shown in Figure 8. If there is no notification, follow the next steps to check in the app for current software update.

**Figure 8.**



4. Select Vehicle Software.

**Figure 9.**



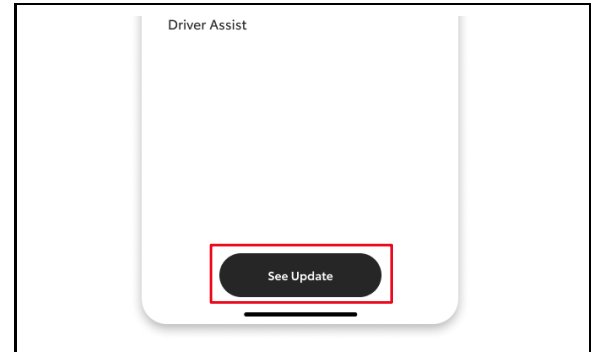
## Advanced Drive Performance Enhancements

### Software Update Procedure (continued)

#### Section 2 – Toyota Audio Multimedia (21MM) Head Unit Software Update (continued)

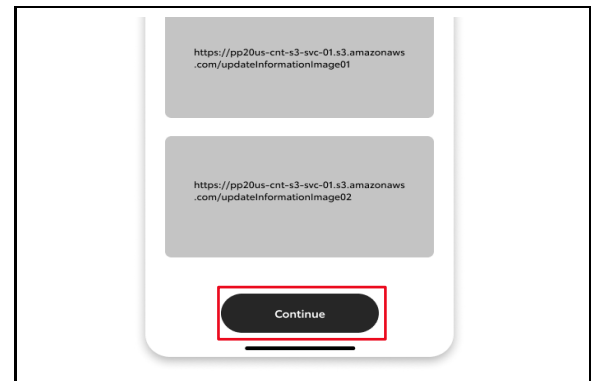
5. If an update is available, select See Update.

**Figure 10.**



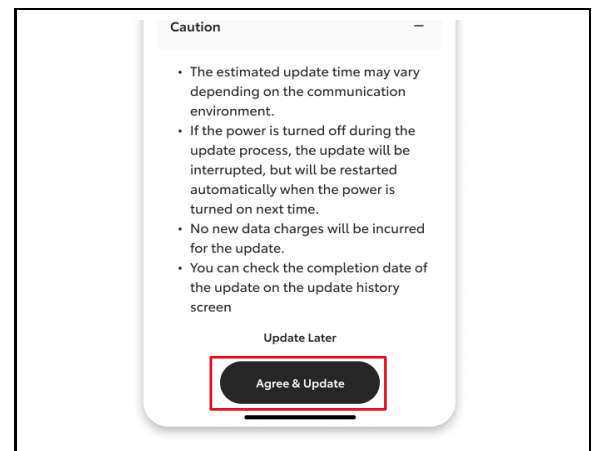
6. Continue through Terms of Service and Release Notes pages by selecting Continue.

**Figure 11.**



7. To start the update process, select Agree & Update.

**Figure 12.**





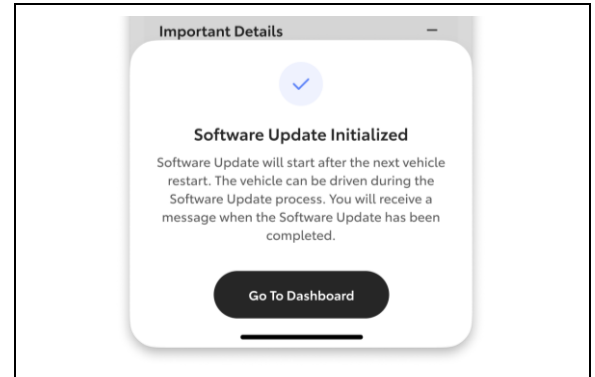
# Advanced Drive Performance Enhancements

## Software Update Procedure (continued)

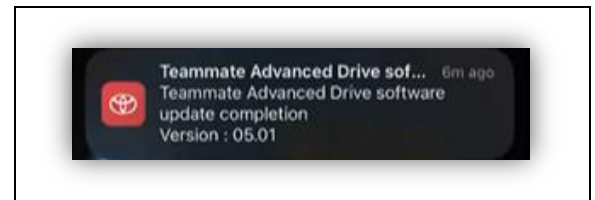
### Section 2 – Toyota Audio Multimedia (21MM) Head Unit Software Update (continued)

- The following message will appear as shown in Figure 13, “Software Update Initialized Software will start after the next vehicle restart. The vehicle can be driven during the Software Update process. You will receive a message when the Software Update has been completed.”

**Figure 13.**



**Figure 14. Message Notifying of the Software Update Completion**



- Go to the Toyota App and verify the software is up to date by selecting Vehicle Software.

**Figure 15.**

