

Low Fuel Warning Light Logic Enhancement

Service Category Engine/Hybrid System

Section Fuel System

Market USA

Toyota Supports
ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|----------------|------------------------|
| 2023 - 2025 | RX350H, RX500H | |
| 2024 - 2025 | TX500H | |

Introduction

Some customers of 2023 – 2025 model year RX 350h, RX 500h, and 2024 – 2025 model year TX 500h vehicles may experience one or more of the following complaints when the low fuel level warning light illuminates:

- The total amount of fuel dispensed during refueling is less than the customer expects when the fuel nozzle automatically clicks off, preventing the customer from being able to put as much fuel into the tank as expected.
- The low fuel level warning light illuminates earlier than the customer expects.
- The driving range is reduced compared to customers' expectations, resulting in more frequent refueling than customers anticipate.

The combination meter software logic has been updated to help meet customer expectations. Follow the Repair Procedure in this bulletin to address these conditions.

NOTE

For TX 500h models, please confirm 25LA05 has been completed. If 25LA05 has NOT been completed, please complete 25LA05 BEFORE performing this TSB.

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Warranty Information

| OP CODE | DESCRIPTION | TIME | OFP | T1 | T2 |
|---------|---------------------------|------|--------------|----|----|
| EL2604 | Reflash Combination Meter | 1.2 | 83800-#####* | 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 Lexus Basic Warranty. This warranty is in effect for 48 months or 50,000 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.

Parts Information

| PART NUMBER | PART NAME | QTY |
|----------------------------|-------------------------|-----|
| 83800-##### 83A00-##### | Meter Assy, Combination | - |

NOTE

The combination meter should NOT be replaced as part of this procedure.

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Required Tools & Equipment

| SPECIAL SERVICE TOOLS (SST) | PART NUMBER | QTY |
|-----------------------------------|-----------------------------|-----|
| DCA-8000 Battery Diagnostic Tool* | DCA-8000P_T | 1 |
| MSP-070 Power Supply / Charger | MTRMSP0702 | 1 |

*Essential SST.

NOTE

- Only ONE of the 12V battery power supply units listed above is required to support reprogramming.
- Additional SSTs may be ordered by calling 1-800-368-6787 (USA) or by visiting *Home – Service Resources – Lexus Tools and Equipment Program*.

| 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 2026.01.003.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

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Calibration Information

| MODEL | MODEL YEAR | ENGINE | CALIBRATION ID | | FILE NAME – SIZE |
|--------------------|------------|--|------------------------------|--|------------------------------|
| | | | PREVIOUS | NEW | |
| RX 350h RX 500h | 2023 | A25A–FXS T24A–FTS | 8381G4812100 8381G4812300 | 8381G4812400 | L-0008-26.cuw – 5.8 MB |
| | | | 8381G4814200 8380048X1206 | 8381G4814300 8380048X1207 | L-0009-26.cuw – 16.6 MB |
| | | | 8381G4814100 8380048X1206 | 8381G4844000 8380048X1207 | L-0010-26.cuw – 16.6 MB |
| | 2024 | | 8381G48270A0 | 8381G4827100 | L-0011-26.cuw – 5.8 MB |
| | | | 8381G48290A0 838004DM1201 | 8381G4829100 838004DM1211 | L-0012-26.cuw – 16.6 MB |
| | | | 2025 | 8381G4834200 | 8381G4834300 |
| TX 500h | T24A–FTS | 8381G0E03100 8381G0E03200 8381F0E01100 8381F0E01200 8381F0E01300 8381F0E01500 | | 8381G0E03300 8381F0E01600 | L-0014-26.cuw – 251.6 MB |
| | | 8381G0E27100 | 8381G0E27200 | L-0015-26.cuw – 5.8 MB | |

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Repair Procedure

1. Confirm the customer has the following concerns.
Does the customer have one or more of the following complaints when the low fuel level warning light illuminates?
 - The total amount of fuel dispensed during refueling is less than the customer expects when the fuel nozzle automatically clicks off, preventing the customer from being able to put as much fuel into the tank as expected.
 - The low fuel level warning light illuminates earlier than the customer expects.
 - The driving range is reduced compared to customers' expectations, resulting in more frequent refueling than customers anticipate.

 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Use GTS+ to confirm if the combination meter assembly calibration has been updated. Is the calibration ID listed in GTS+ the latest combination meter assembly calibration?
 - **YES** — This bulletin does not apply. Continue diagnosis using the applicable Repair Manual.
 - **NO** — Continue to step 3.

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Repair Procedure (continued)

3. Disconnect the engine cooling fan.

Figure 1. Location of the Cooling Fan Plug

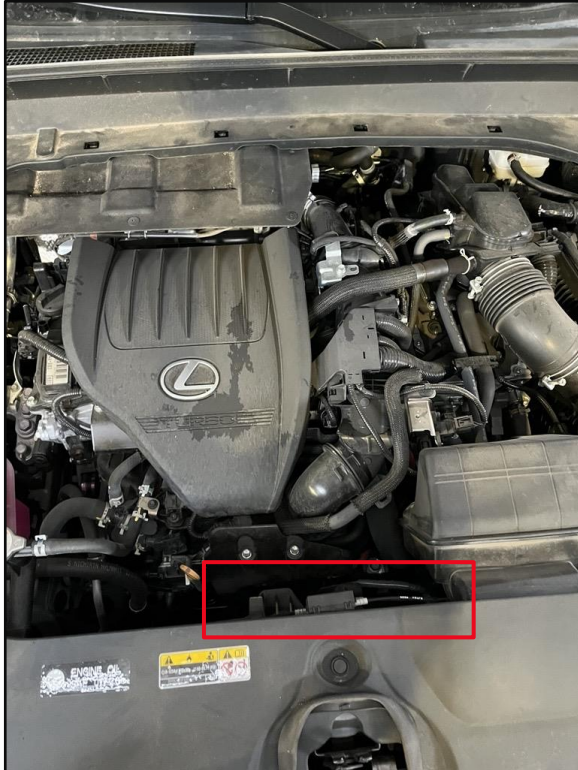
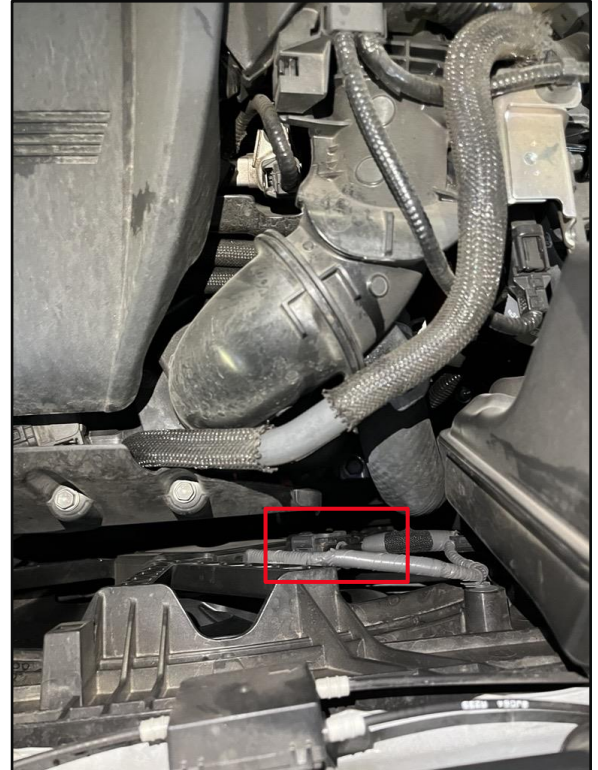


Figure 2. Close Up of the Cooling Fan Plug



4. Flash reprogram the combination meter assembly.

NOTE

- The DCA-8000 Battery Diagnostic Tool **MUST** be used in ECU Reflash Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- The MSP-070 Power Supply / Charger can be used on either the 13.6V or 14.4V setting to maintain battery voltage while flash reprogramming the vehicle.
- For details on how to use the 12V battery power supply units, refer to the instruction manuals located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [L-SB-0036-22](#), *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (continued)

5. Reconnect the engine cooling fan.

6. Using GTS+, perform a health check, clear any DTCs, and confirm the condition has been addressed.