

TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL 23TA09

Remedy Repair

INCREASED RISK OF FIRE DUE TO FUEL LEAK

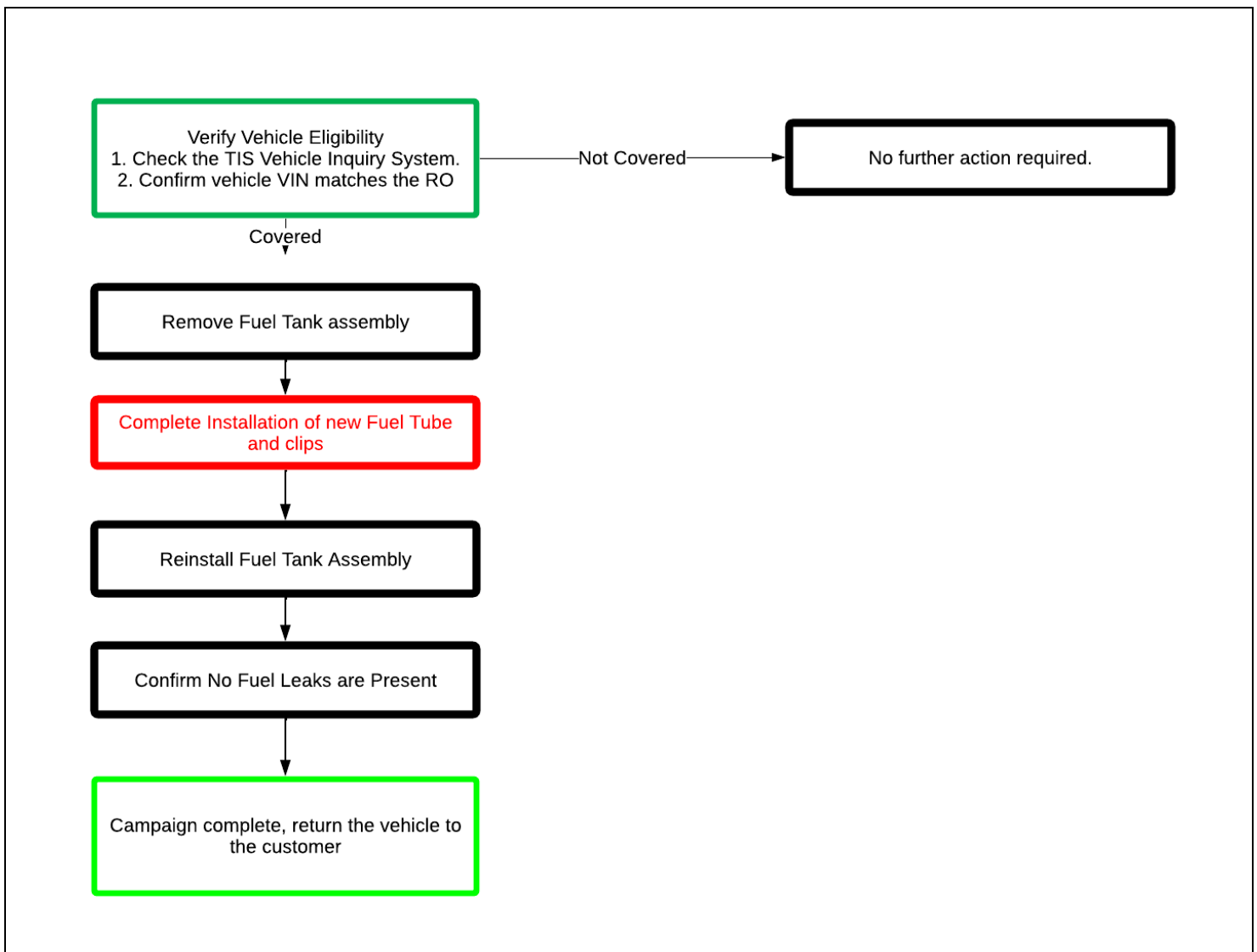
**CERTAIN 2022 – 2023 MODEL YEAR TUNDRA HV
CERTAIN 2022 – 2023 MODEL YEAR TUNDRA**

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair 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 have currently completed the following courses:

- T4535 – Steering, Suspension & Handling

Always check which technicians can perform the repair by logging on to <https://www.uotdealerreports.com>. It is the dealership’s responsibility to select technicians with the above course completed to perform this repair. Carefully review your resources, the technician’s 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

- Compare the vehicle's 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.

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

Part Number	Part Description	Quantity
77209-0C182	TUBE SUB-ASSY, FUEL TANK MAIN	1
77285-0C070	CLAMP, FUEL TUBE, NO.1	1
77286-0C100	CLAMP, FUEL TUBE, NO.2	1

B. TOOLS & EQUIPMENT

• Techstream	• Standard Hand Tools	• Torque Wrench
• Air Blow Gun	• Jack stand	• Gas Caddy (Minimum 25-gallon capacity)
• Transmission Jack		

C. MATERIALS

• Brake Cleaner	• Protective Glasses	• Rags
• Protective Gloves		

IV. WORK PROCEDURE TABLE OF CONTENTS

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V. BACKGROUND

The subject vehicles are equipped with a plastic fuel tube that could move and rub against a brake line and develop a fuel leak. A fuel leak in the presence of an ignition source could increase the risk of fire.

VI. SAFETY PRECAUTIONS



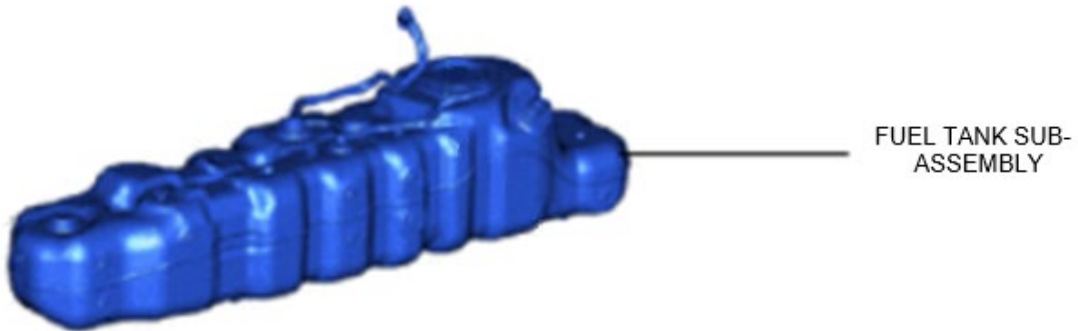
- Always remember “SAFETY FIRST”.
- When installing/uninstalling the fuel system components, keep safety first in mind and carefully observe the following instructions to avoid fire.
- Check each item in the appropriate section for each vehicle.

CAUTION:

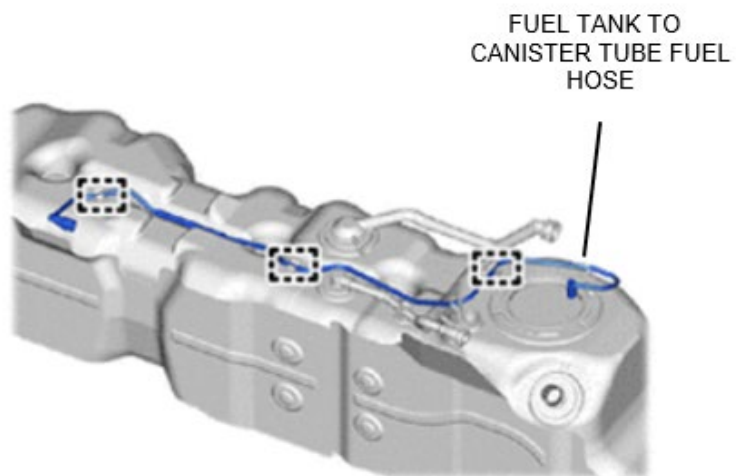
- When installing/uninstalling the fuel system components, keep safety first in mind and carefully observe the following instructions to avoid accidents:
 - a. When working on the fuel system, display a Flammable - Keep Fire Away sign.
 - b. Smoking is prohibited nearby.
 - c. Perform this work in an area where there are no sparks nearby from the operation of welders, grinders, drills, electric motors, stoves, etc.
 - d. **DO NOT** use electrical devices nearby because they can become hot, and the operation of power switches can generate sparks.
 - e. **DO NOT** use iron or steel hammers while working, because they may generate sparks.
 - f. **DO NOT** start engines even in adjacent stalls.
 - g. Prepare fire extinguishers before starting any work.
 - h. Perform this work in a well-ventilated area (natural ventilation). **DO NOT** use exhaust fans or electric fans, because their motors might generate sparks.
 - i. Since it is possible for fuel vapor to build up, **DO NOT** work in or near a pit.
 - j. If fuel is spilled, use shop towels or similar material to quickly wipe it up and then use compressed air to diffuse the fuel vapor.
 - k. Shop towels and other materials that have come into contact with fuel should be dried in a well-ventilated area and then disposed of as appropriate.

VII. COMPONENTS

85 L Fuel Tank



122 L Fuel Tank



VIII. REPAIR PROCEDURE



1. CHECK FOR DTCS

- Using GTS+, check for Diagnostic Trouble Codes.

NOTE: This Safety Recall covers only the installation of the fuel line kit and associated parts. It does not cover the diagnosis or replacement of any other parts of the vehicle.

2. REMOVE FUEL TANK

- Remove fuel from fuel tank unless $\frac{1}{4}$ tank or less is present.

REMOVAL TIP: FUEL LEVEL

If the fuel level inside the fuel tank is above the specified level, fuel may overflow from the fuel tank during the removal of the fuel tube assembly. Confirm the fuel level in the vehicle is below the specified level before proceeding. If necessary, drain fuel from the tank.

FUEL LEVEL RECOMMENDATIONS			
Less than full	$\frac{3}{4}$ or less	$\frac{1}{4}$ or less	Empty
		✓	

Note: If fuel needs to be removed from the tank, be sure to recover it into an approved fuel recovery system. Suitable systems are available from the [Toyota Approved Dealer Equipment](#) website.

- Remove the fuel tank following the repair manual steps:

Step 4 and 5 can be omitted from the fuel tank removal process.

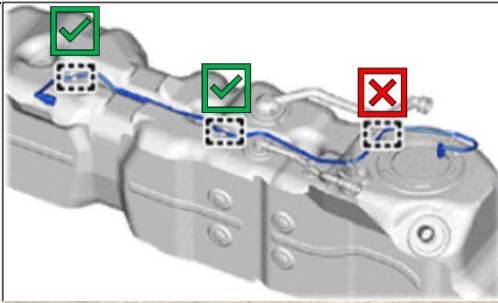
NOTE: Driveline and exhaust do not need to be removed.

- When lowering the fuel tank, take caution to not lower the tank too far as the wire harness may pull on the fuel tank sending unit connectors causing damage.

- [V35A-FTS \(FUEL\): FUEL TANK: REMOVAL; 2022 - 2024 MY Tundra Tundra HV](#)

X. INSTALL **NEW** FUEL TUBE AND RETAINERS TO FUEL TANK

1. INSTALL THE FUEL TUBE TO THE FIRST TWO CLIPS OF THE FUEL TANK ASSEMBLY.

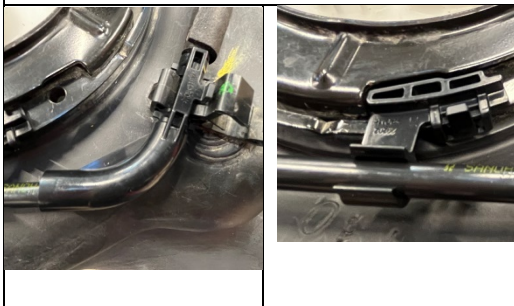
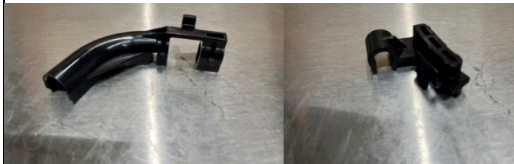


- a. Align the fuel tube clip with the fuel pipe and push the fuel tube into the clip to secure it to the tank.

NOTE:

- Do not install the fuel tube to the clip closest to the sending unit at this time.
- Confirm that the retainer makes a "click" sound when pushed.

- a. After connecting the fuel line, check that the fuel tube is secured by pulling on it.

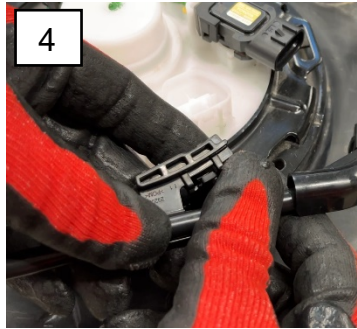


2. INSTALL THE FUEL TUBE RETAINERS TO THE FUEL TUBE.



Repair_trial_procedure.mov

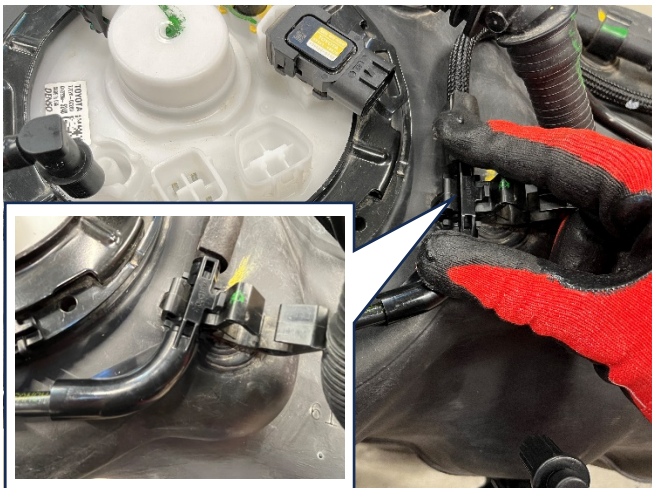
- b. Double-click the icon to watch the retainer installation video, then proceed to Step 3.



3. INSTALL THE CURVED RETAINER TO THE FUEL TUBE.

NOTE: Confirm that the retainer makes a "click" sound when pushed.

4. INSTALL THE SMALL RETAINER TO THE FUEL TUBE.



5. INSTALL THE REMAINDER OF THE FUEL TUBE TO THE FUEL TANK.

6. INSTALL THE CURVED RETAINER ONTO THE FUEL TANK.

NOTE: Confirm that the retainer makes a "click" sound when pushed.



7. INSTALL THE SMALL RETAINER ONTO THE FUEL TANK.

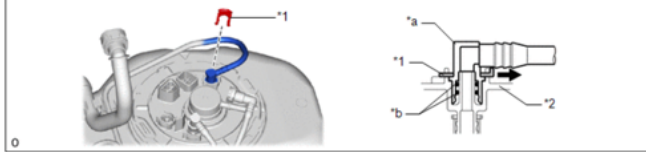
NOTE: Confirm that the retainer makes a "click" sound when pushed.



8. INSTALL THE FUEL TUBE CONNECTION.

a. Align the fuel tube connector with the fuel pipe, push the fuel tube connector onto the fuel pipe, and then push in the retainer to secure the connection.

NOTE: Confirm that the retainer makes a "click" sound when pushed.



"1"	Tube Joint Clip	"2"	Fuel Suction Plate Sub-assembly
"a"	Fuel Tube Joint	"b"	O-Ring

XI. RE-INSTALL FUEL TANK

1. INSTALL THE FUEL TANK FOLLOWING THE REPAIR MANUAL STEPS:

- [V35A-FTS \(FUEL\): FUEL TANK: INSTALLATION; 2022 - 2024 MY Tundra Tundra HV](#)

NOTE: If fuel was removed from the tank prior to disassembly, reinstall the originally recovered fuel into the tank.



2. CHECK FOR DTCS

a. Using Techstream, check for Diagnostic Trouble Codes.

NOTE: This Safety Recall covers only the installation of the fuel line kit and associated parts. It does not cover the diagnosis or replacement of any other parts of the vehicle.

◀ VERIFY REPAIR QUALITY ▶

- Confirm fuel line repair kit is installed exactly as instructed (if applicable).
- Confirm all fuel lines and electrical connectors are properly fastened.
- Confirm no fuel leaks are present after completing the repair.
- Confirm retainers are properly installed to fuel tube and fuel tank (if applicable).
- If you have any questions regarding this update, please contact your area representative.

XIII. APPENDIX

A. PARTS DISPOSAL

As required by Federal Regulations, 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.***

B. CAMPAIGN DESIGNATION DECODER

