

October 18, 2024

Version 1

Safety Recall: 2018–20 RLX Sport Hybrid Fuel Pump Motor

AFFECTED VEHICLES

Year	Model	Trim Level	VIN Range
2018–20	RLX Sport Hybrid	ALL	Check the iN VIN status for eligibility.

BACKGROUND

A certain number of 2018–20 RLX Sport Hybrid units may have been built with a fuel pump motor or may have been repaired with a fuel pump assembly service part with defective impellers.

Due to swelling of the fuel pump motor impeller, the fuel pump may seize and stop working. A defective impeller may cause the fuel pump to become inoperative, which could prevent an engine from functioning as intended. This limitation may cause a loss of motive power or a stall while being driven, increasing the risk of a crash or injury, creating a safety hazard.

If this bulletin appears during an iN-VIN status inquiry, the vehicle is subject to a safety recall. Any affected vehicles in your dealer inventory are on STOP SALE until further notice. Refrain from calling Tech Line for updates.

CLIENT NOTIFICATION

Owners affected vehicles will be sent a notification of this campaign. Do an iN VIN status inquiry to make sure the vehicle is shown as eligible. Some vehicles affected by this campaign may be in your new or used vehicle inventory.

Failure to repair a vehicle subject to a recall or campaign may subject your dealership to claims or lawsuits from the client or anyone else harmed as a result of such failure. To see if a vehicle in inventory is affected by this safety recall, do a VIN status inquiry before selling it.

IMPORTANT NOTICE

Vehicles that are both shown as an eligible VIN and experiencing any of the following symptoms will be prioritized for repair: difficulty starting, engine hesitation while driving, and/or an illuminated check engine light displayed with DTC P0087 (Fuel Rail Pressure Too Low) stored.

CORRECTIVE ACTION

Replace the fuel pump motor.

NOTE: If the vehicle has any of the symptoms listed in BACKGROUND, you must apply this bulletin before attempting any other repairs. If the symptoms remain after the recall repair is complete, only attempt further repairs (such as replacing the high-pressure fuel pump) after authorized troubleshooting.

CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by “do-it-yourselfers,” and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

WARRANTY CLAIM INFORMATION

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
3101EH	Replace the fuel pump motor.	1.2 hr	6FE00	VIF00	B24034A	17045-TY3-000

PARTS INFORMATION

Refer to the Parts Information Bulletin 24-0013, *Multi-Model Fuel Pump Motor Safety Recall Parts Availability*, for details regarding parts availability and ordering.

Part Name	Part Number	Quantity
Fuel Pump Motor Kit	06170-TY3-305	1

For dealers experiencing a strong fuel smell from storing a fuel pump motor replaced under this service bulletin, the fuel pump motor may be disposed of immediately in accordance with local regulations. This only applies to the fuel pump motor replaced under this service bulletin. The published retention policy remains in effect for all other parts.

If you have any questions about this exception or other parts retention issues, contact the WPI Administrative Office at **937-642-2737**.

TOOL INFORMATION

Tool Name	Tool Number	Quantity
Fuel Sender Wrench	070AA-T0AA100 or 07AAA-T0AA100	1

⚠ WARNING

Fuel pump motor removal exposes fuel, which can ignite, causing a fire or explosion.

This can cause serious injury or death.

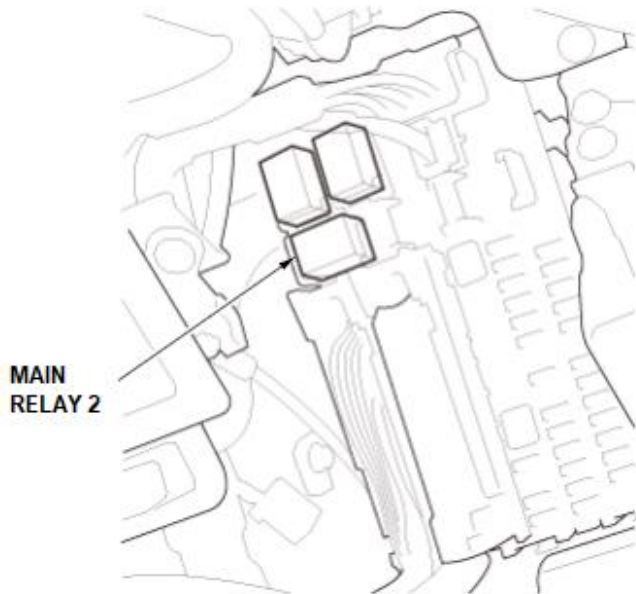
Always work in a well-ventilated area and keep sparks or open flames away.

1. Relieve the fuel pressure.

1. Remove the emergency fuel funnel from the case, then insert it into the fuel filler neck to relieve the pressure in the fuel tank.

NOTE: The emergency fuel funnel is stored in the trunk toolbox.

2. Remove the PGM-FI main relay 2 from the driver's under-dash fuse/relay box.



3. Enter the maintenance mode.

NOTE: Do the following procedure within 60 seconds to start the engine in the maintenance mode.

- Make sure the ignition is turned off.
- Turn the ignition to ON without pressing the brake pedal.
- With the transmission in the P position, press the accelerator pedal to the floor twice, then release it.
- Shift to the N position while pressing down on the brake pedal, press the accelerator pedal to the floor twice, then release it.
- Shift to the P position while pressing down on the brake pedal, press the accelerator pedal to the floor twice, then release it.
- Press the engine start/stop button while pressing down on the brake pedal. The vehicle is now in the maintenance mode and the engine will start.
- **Maintenance Mode** will be displayed on the MID.

4. Let the engine idle until it stalls.

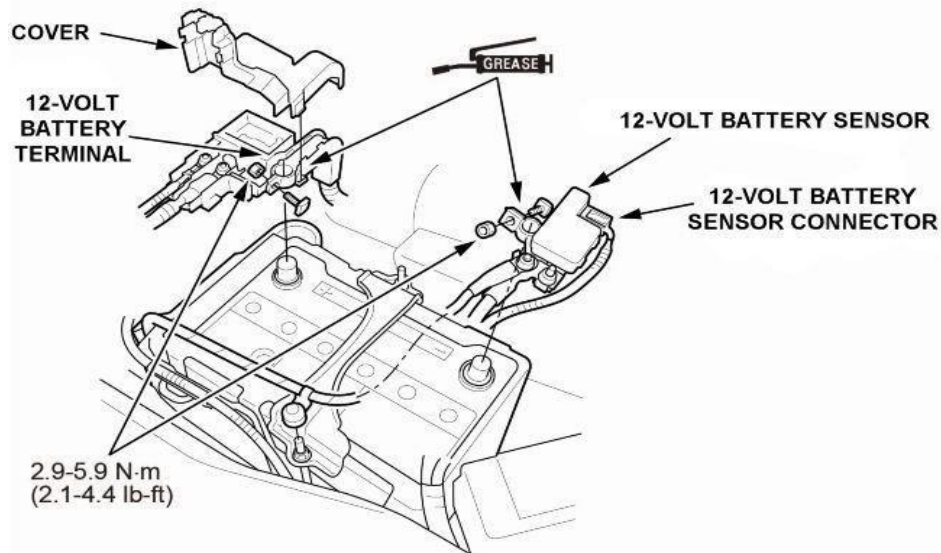
5. Turn the ignition to OFF.

6. Install the PGM-FI main relay 2.

2. Disconnect both 12-volt battery terminals.

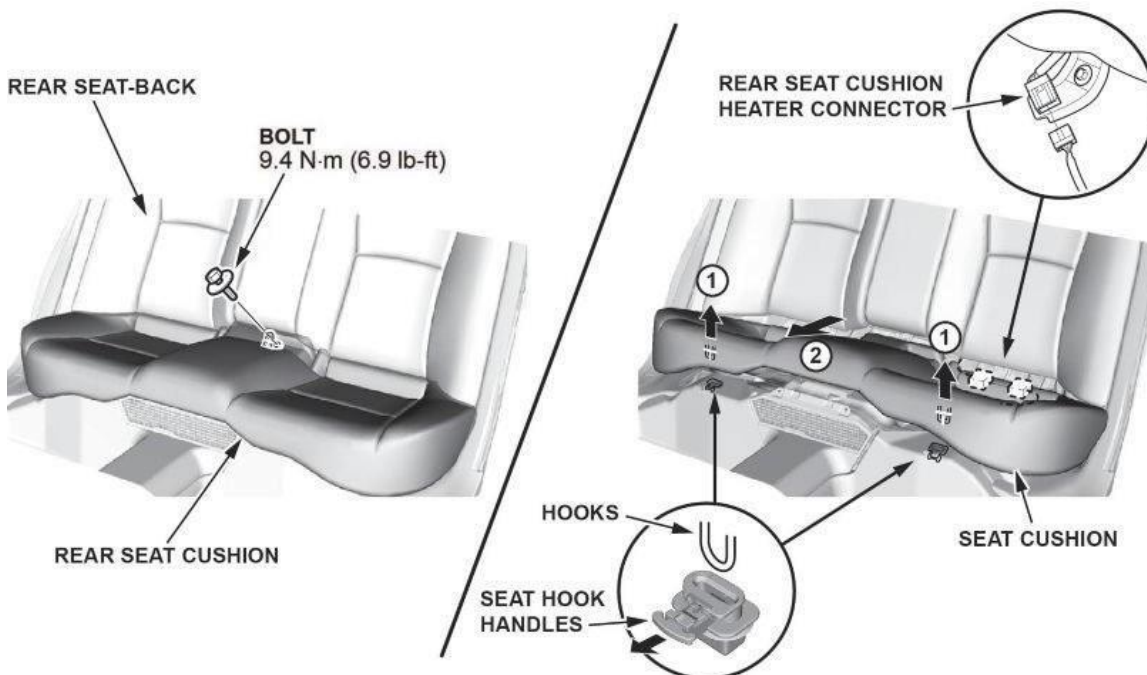
NOTICE

- Always disconnect the negative terminal first.
- To protect the terminal connector from damage, do not hold it when removing the terminal.
- Do not disconnect the 12-volt battery sensor from the cable.



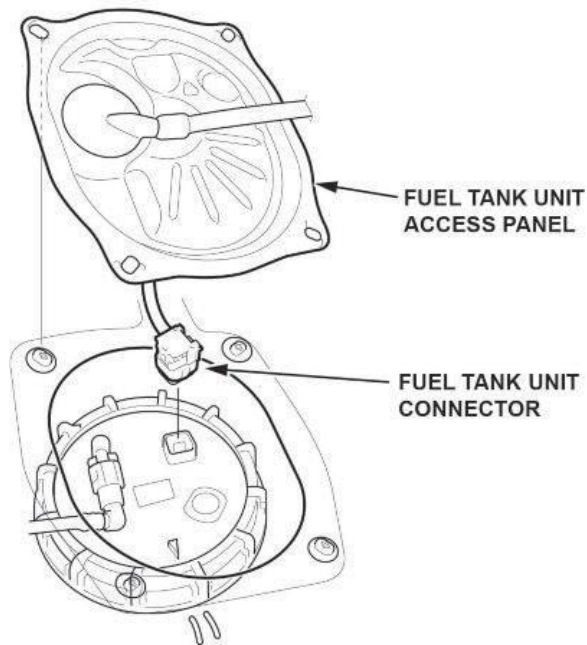
3. Remove the rear seat cushion.

1. Remove the bolt between the rear seatback and the rear seat cushion.
2. While pushing down on the seat cushion, pull the seat hook handles to release the hooks.
3. Disconnect the rear seat cushion heater connector, if equipped.
4. Remove the rear seat cushion.

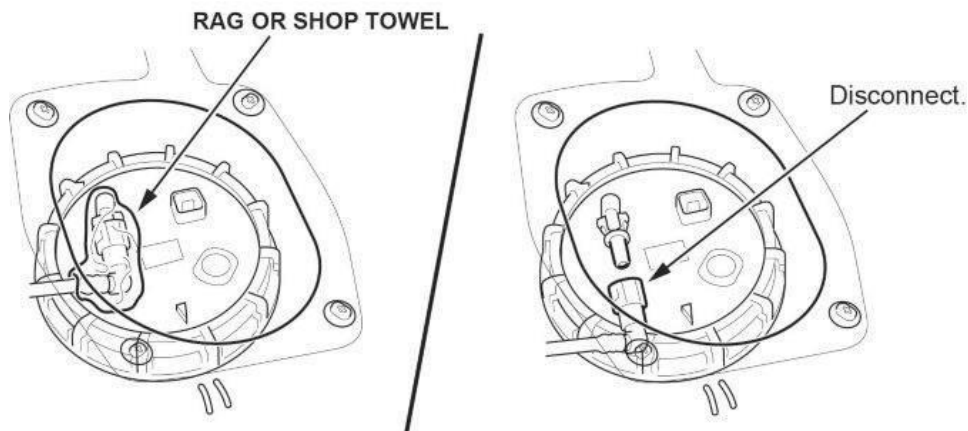


4. Remove the fuel tank unit access panel on the driver's side and disconnect the fuel tank unit connector.

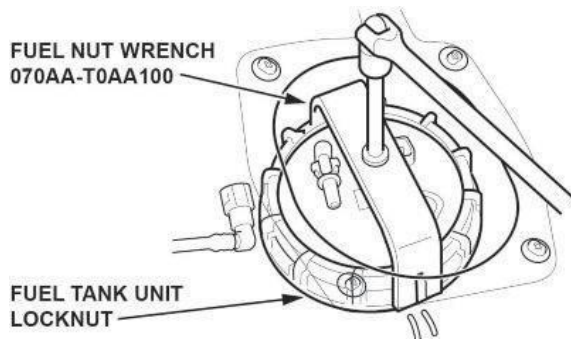
NOTE: This repair is for the fuel pump on the fuel tank unit (driver's side), not the secondary fuel gauge sending unit (passenger's side).



5. Place a rag or shop towel over the quick-connect fitting and disconnect it.



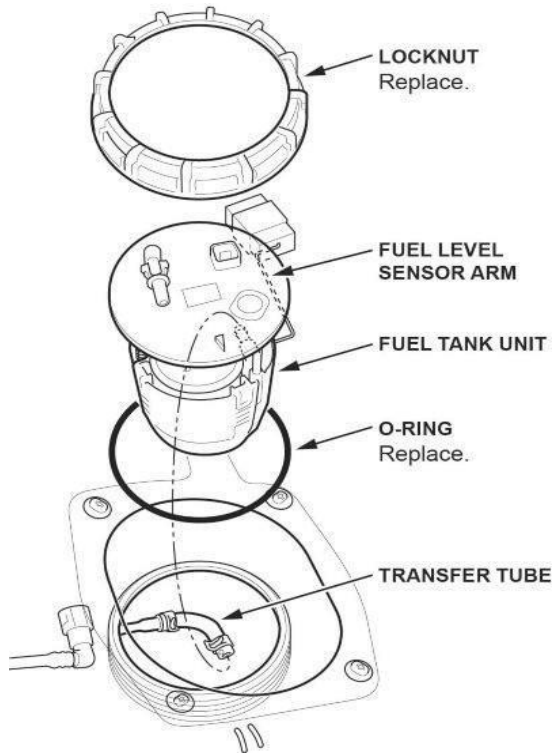
6. Unlock the fuel tank unit locknut using the fuel sender wrench (070AA-T0AA100).



7. Remove the fuel tank locknut and lift it up just enough to disconnect the transfer tube. Then, remove the fuel tank unit.

NOTE:

- After removing the fuel pump unit, clean the fuel tank around the fuel pump opening.
- After removing the fuel pump O-ring, clean the fuel tank around the O-ring opening and make sure it is free of dirt, dust, and debris.



8. Disassemble the fuel tank unit.

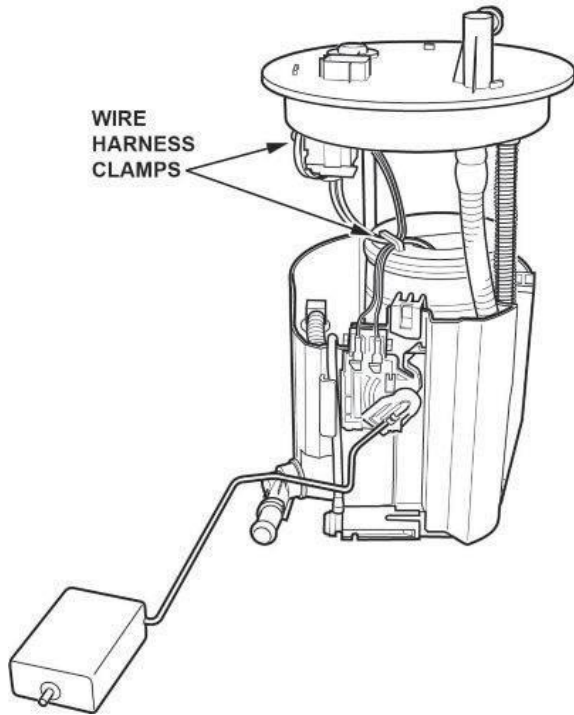
1. Prepare the fuel tank unit and parts to be replaced.

NOTE: Take a photo of the fuel tube and wire harness and note their routing for assembly. There are various types of routing.

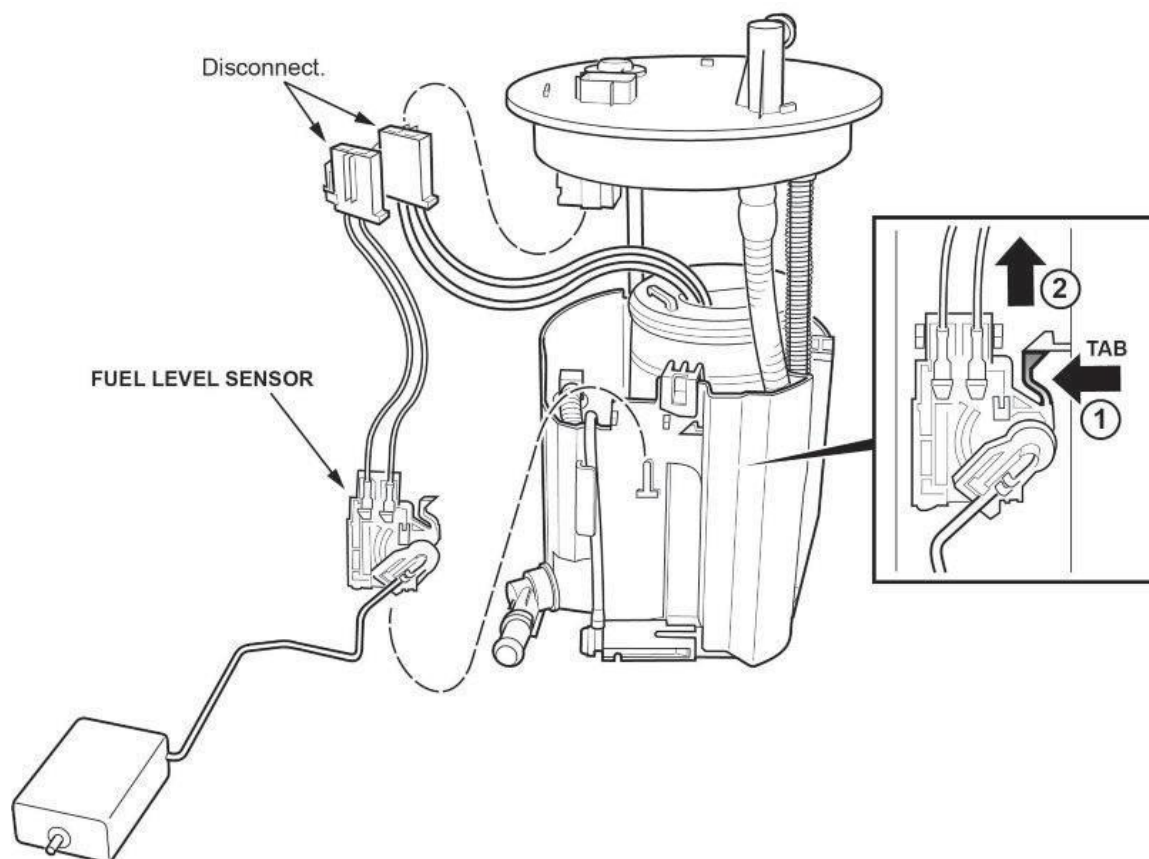
2. Spread the wire harness clamps and remove the wire harness and disconnect the fuel level sensor connector. Make sure not to damage the wire harness.

NOTICE

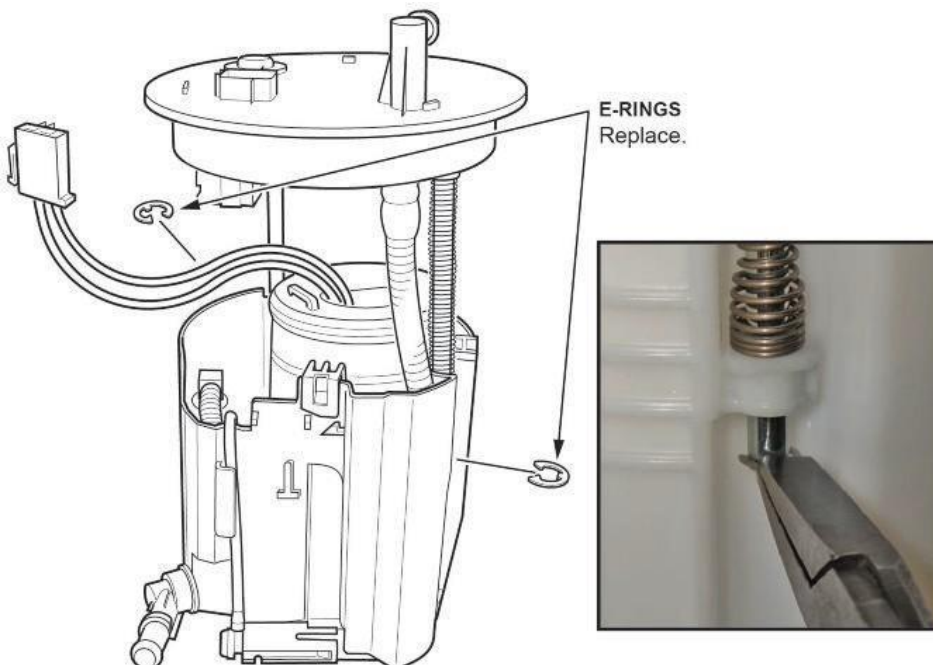
Do not spread the clamps too wide. Spreading them too wide may damage them.



3. Press the tab on the fuel level sensor to release the lock. Then, push up on the fuel level sensor to remove it from the fuel tank unit.

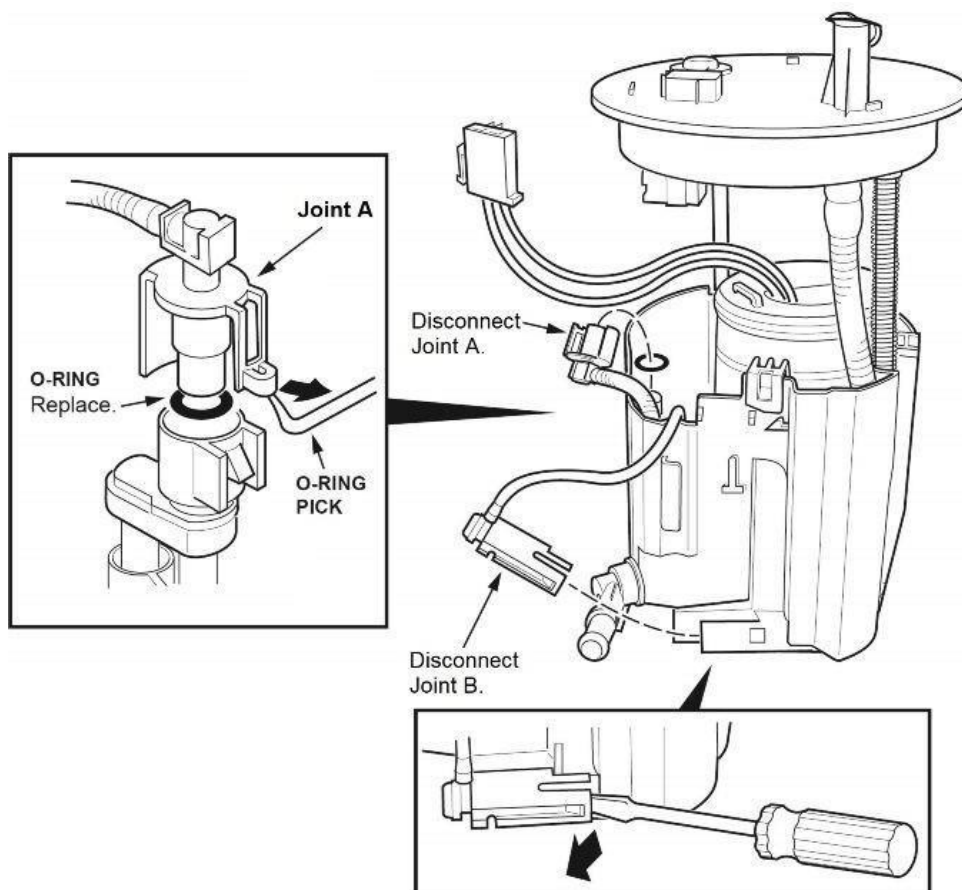


4. Remove the E-rings and discard them. Do not use them again.



5. Use an O-ring pick to disconnect Joint A inside the reservoir.

NOTE: If the O-ring remains inside the joint, use a flathead screwdriver wrapped in protective tape to remove it. Take care not to damage the O-ring set section.



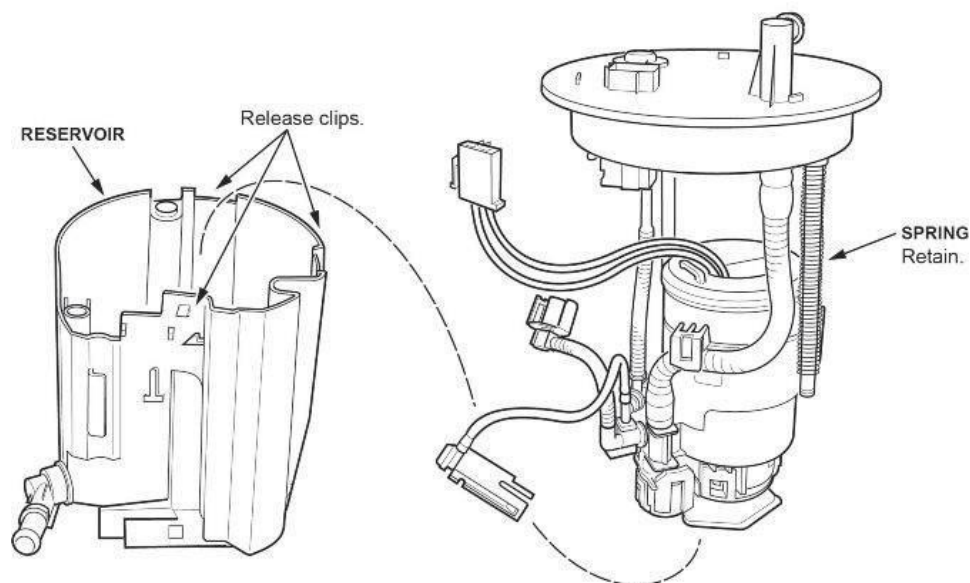
6. Disconnect Joint B from the bottom of the reservoir.

7. Remove the fuel filter assembly from the reservoir by releasing the three clips.

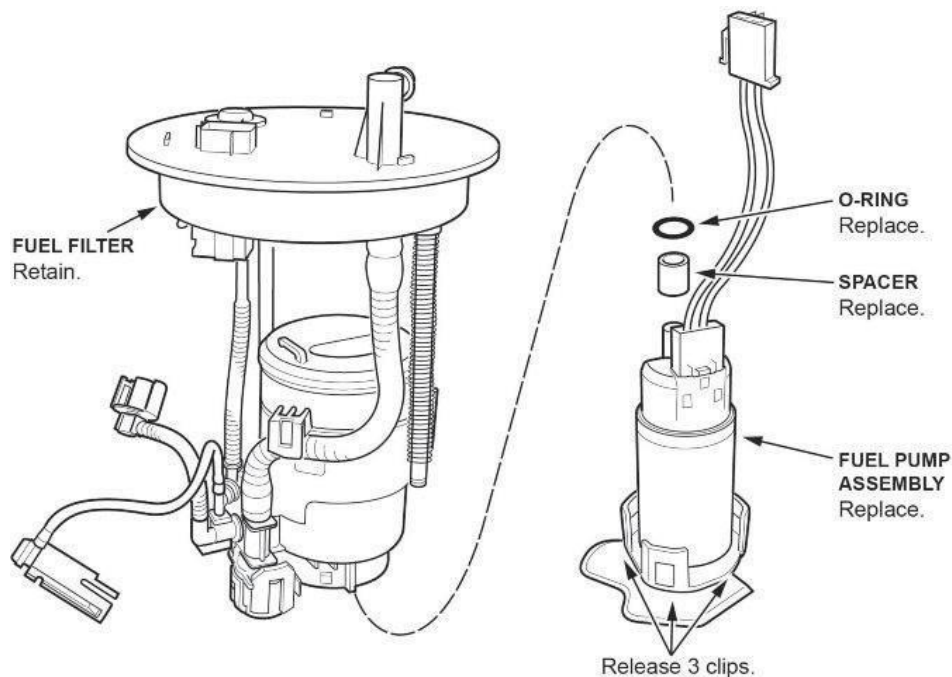
NOTE: The spring may slide off the sliding shaft. Retain this spring. It will be used during assembly.

NOTICE

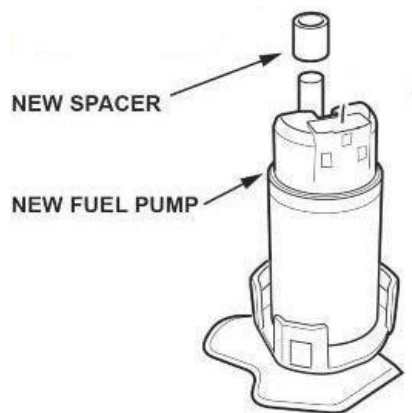
Do not spread the clips too wide. Spreading them too wide may damage them.



8. Remove the fuel pump assembly from the fuel filter.
 1. Release the three clips at the base of the fuel pump assembly.
 2. Pull the fuel pump assembly out of the fuel filter.
 3. If the O-ring remains on the fuel filter, use a flat-tip screwdriver wrapped in protective tape to remove it. Take care not to damage the O-ring seat section.



9. Install the new spacer on the new fuel pump motor.



10. Install the new O-ring, then lubricate **ONLY** the outside edge of it, using clean engine oil.

NOTE: Do not pinch the O-ring during installation.

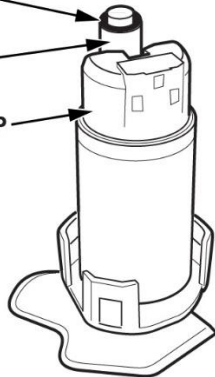
NEW O-RING

Lubricate after installing.

Do not lubricate the
inside of the o-ring.

NEW SPACER

NEW FUEL PUMP



11. Install the new harness and make sure the connection is secure and the connectors are firmly locked into place.

NEW O-RING

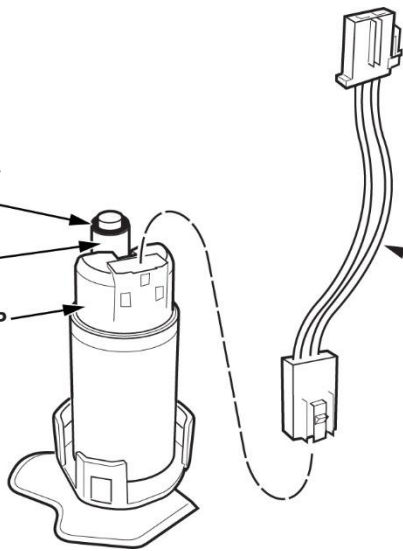
Lubricate after installing.

Do not lubricate the
inside of the o-ring.

NEW SPACER

NEW FUEL PUMP

NEW HARNESS



12. With the palm of your hands, press the fuel pump into the suction filter.

Click her to view the video:

▶ PLAY VIDEO

NOTICE

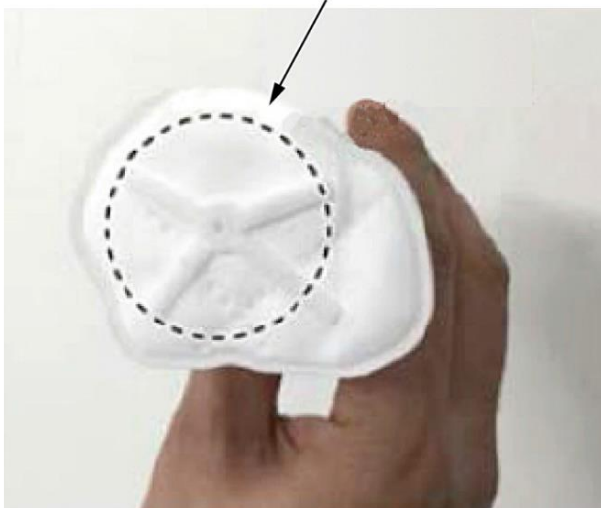
When pressing the fuel pump into the suction filter, make sure you do so with a single firm push. Failure to do so may damage the O-ring. If it is seated properly, you will hear a click.

If you do not hear the click, remove all parts, and inspect the O-ring for damage. If the O-ring is damaged, it must be replaced. Reassemble using the above process.

NOTE:

- When inserting the pump be careful not to break the suction filter.
- If the O-ring is damaged, replace it with a new one.
- After installing the fuel pump to the suction filter, make sure the clips are firmly attached to the new fuel pump.

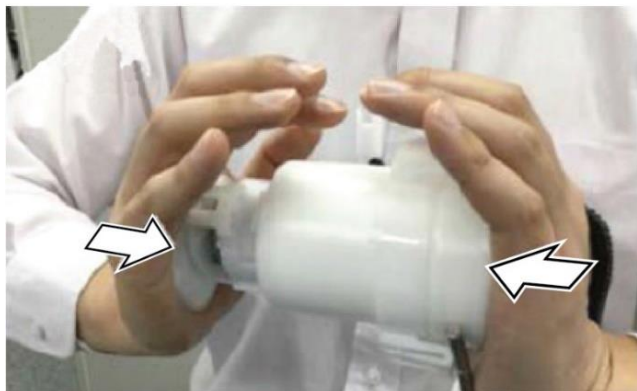
SUCTION FILTER



GOOD



NO GOOD

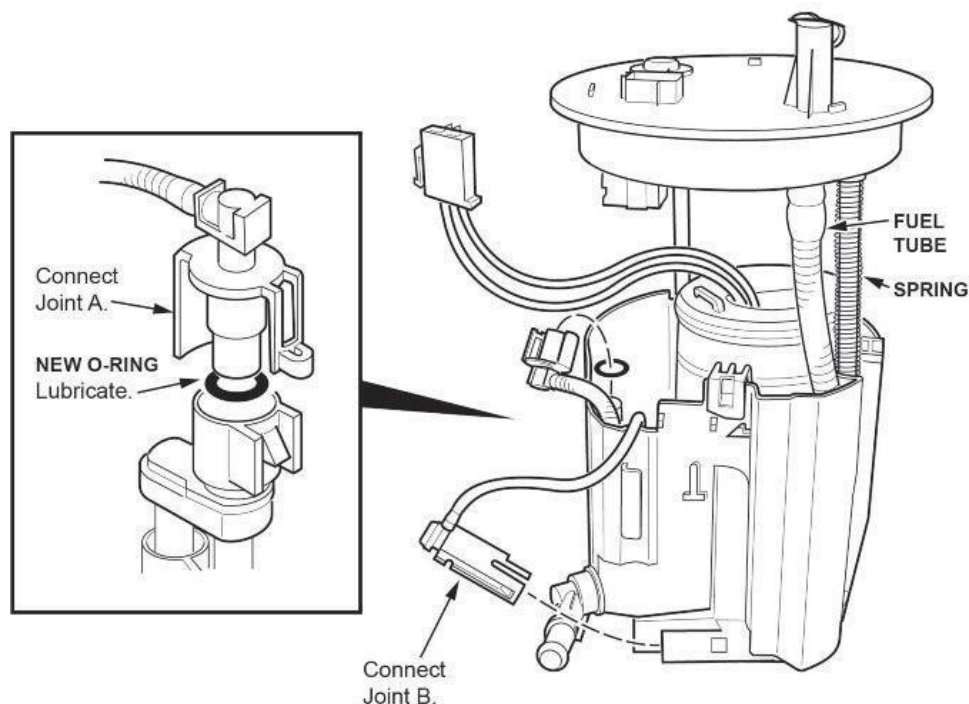


13. Install the fuel filter assembly to the reservoir.

1. Install a new O-ring on Joint A before connecting it.
2. Coat the O-ring with clean engine oil; do not use any other oil or fluid.
3. Do not pinch the O-ring during installation.
4. Insert the spring into the sliding shaft, and make sure it is lined up when installing the fuel filter.

NOTE:

- Make sure the fuel tube is routed **exactly** as shown in the photo taken before disassembly.
- Make sure the three clips are fully engaged.



14. Connect Joint B.

15. Install the new E-rings.

NOTE: After installation, make sure the E-rings can be rotated with your finger. If they cannot be rotated, the E-rings may not be fully seated, or may be incorrectly installed.

16. Install the fuel level sensor to the reservoir. Make sure the lock is engaged and the connection is secure.

NOTE: When installing the fuel level sensor, make sure the connection is secure and the connector is firmly locked in place. Be careful not to bend or twist it excessively.

17. Install the wiring harness to the clamps.

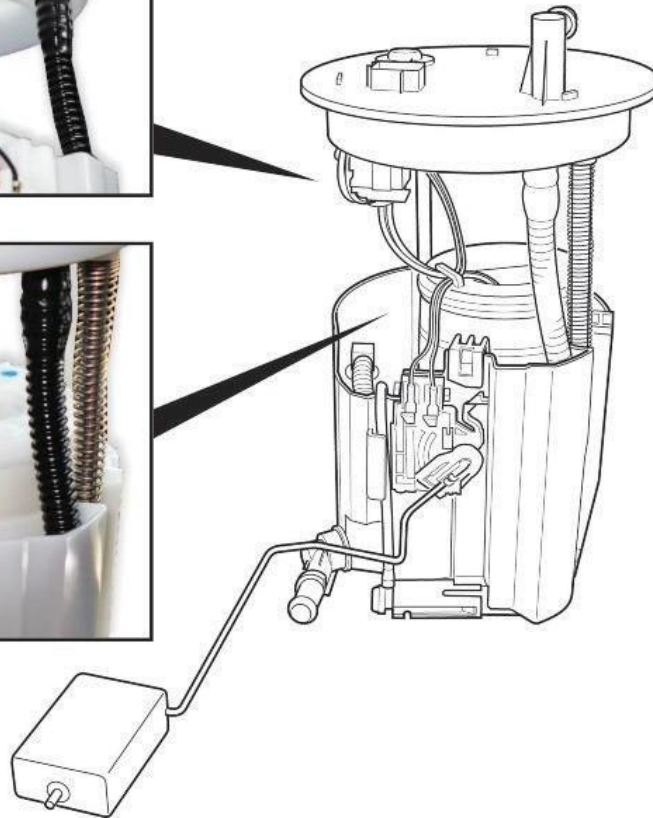
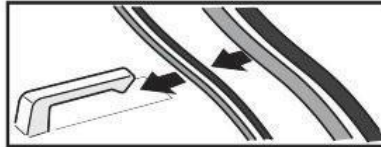
NOTE:

- Clip in the smaller harness wires followed by the larger wires.
- Make sure not to damage the wire harness.
- Make sure the wire harness is routed exactly as shown in the picture taken before disassembly.
- Do not spread the clamps too wide. Spreading them too wide may damage them.

HARNESS ROUTING:



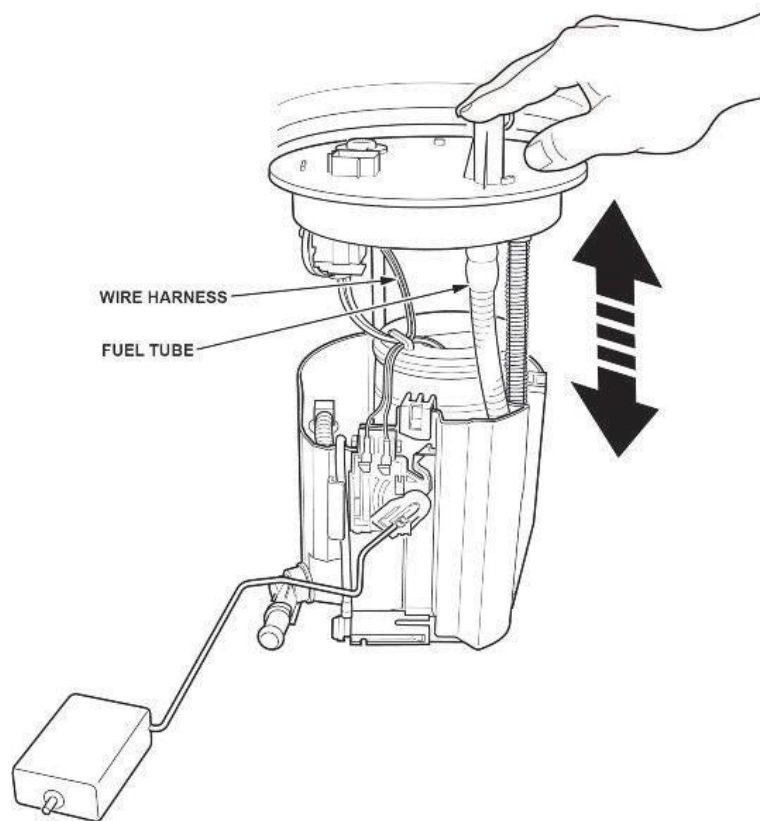
Clip in the smaller harness wires followed by the larger wires.



18. While compressing the fuel tank unit, make sure the movement is smooth and the fuel tube and wiring harness to not pinch or bind.

NOTE:

- Make sure the wire harness is not stretched.
- Make sure the fuel tube is not pinched.

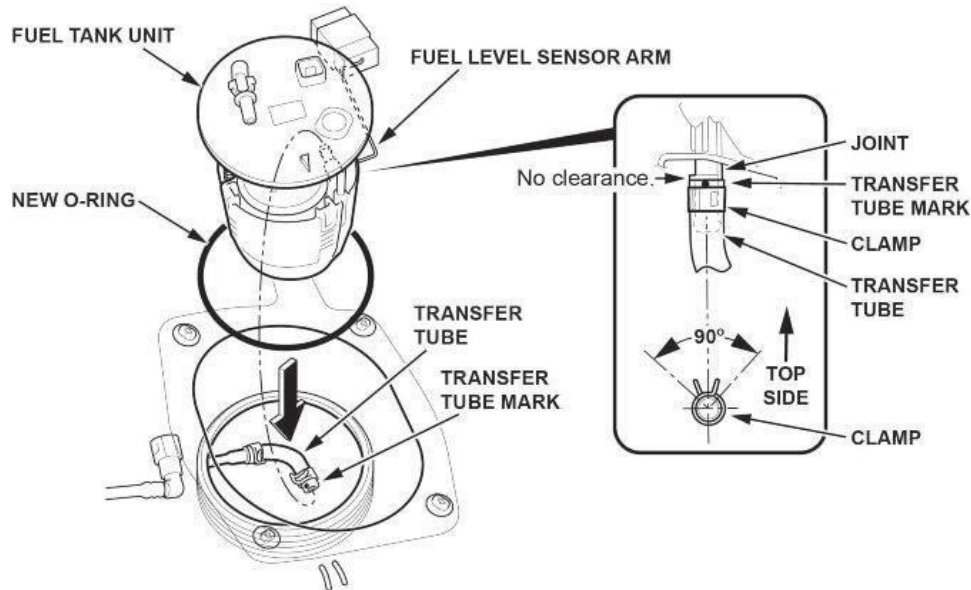


19. Install the fuel tank unit.

1. Install a new O-ring to the fuel tank unit, position the mark of the transfer tube up, connect the transfer tube, then insert the fuel tank unit partially into the fuel tank.

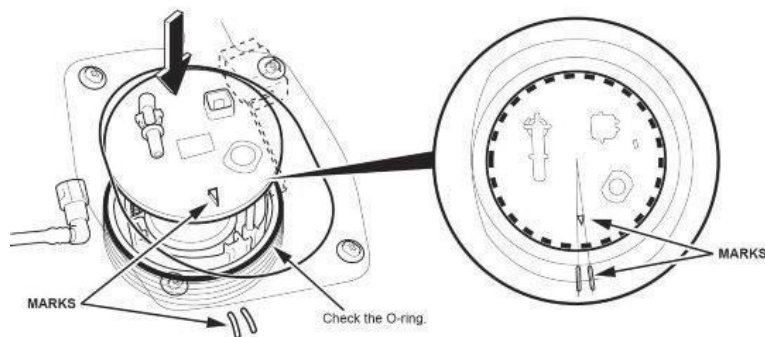
NOTE:

- Do not coat the O-ring with any oil.
- There should be no clearance between the tube and joint.
- Make sure the clamp is positioned in the range shown.
- Be careful not to bend or twist the fuel level sensor arm.
- Be careful not to damage the new O-ring.



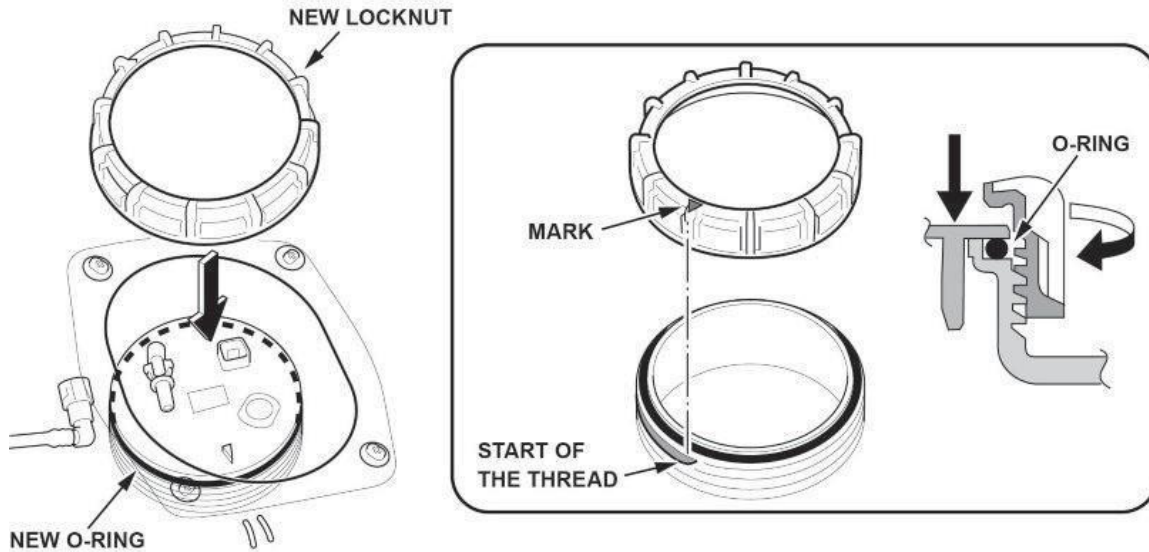
2. Align the marks on the fuel tank and the fuel tank unit, then insert the fuel tank unit into the fuel tank.

NOTE: To avoid a fuel leak, visually or by hand, make sure the O-ring is not pinched.



20. While holding the fuel tank unit vertically, tighten a new fuel tank unit locknut by hand.

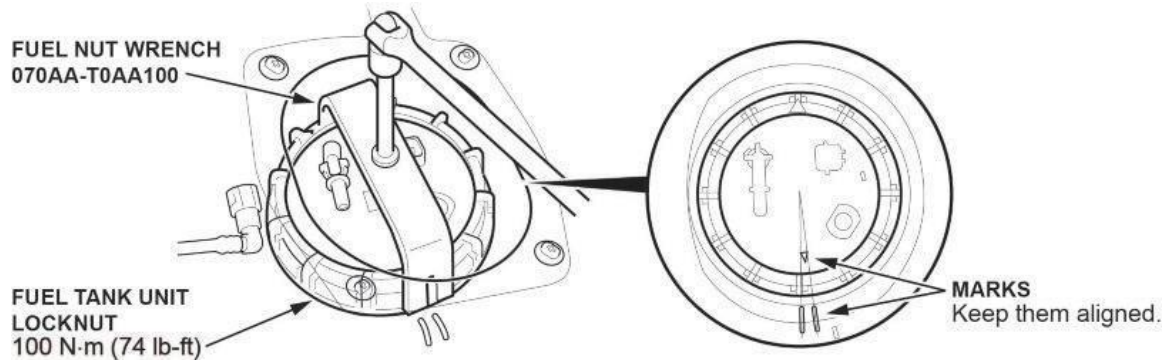
Note: Before tightening, line up the mark on the locknut with the start of the thread.



21. Tighten the fuel tank unit locknut to the specified torque using the fuel sender wrench.

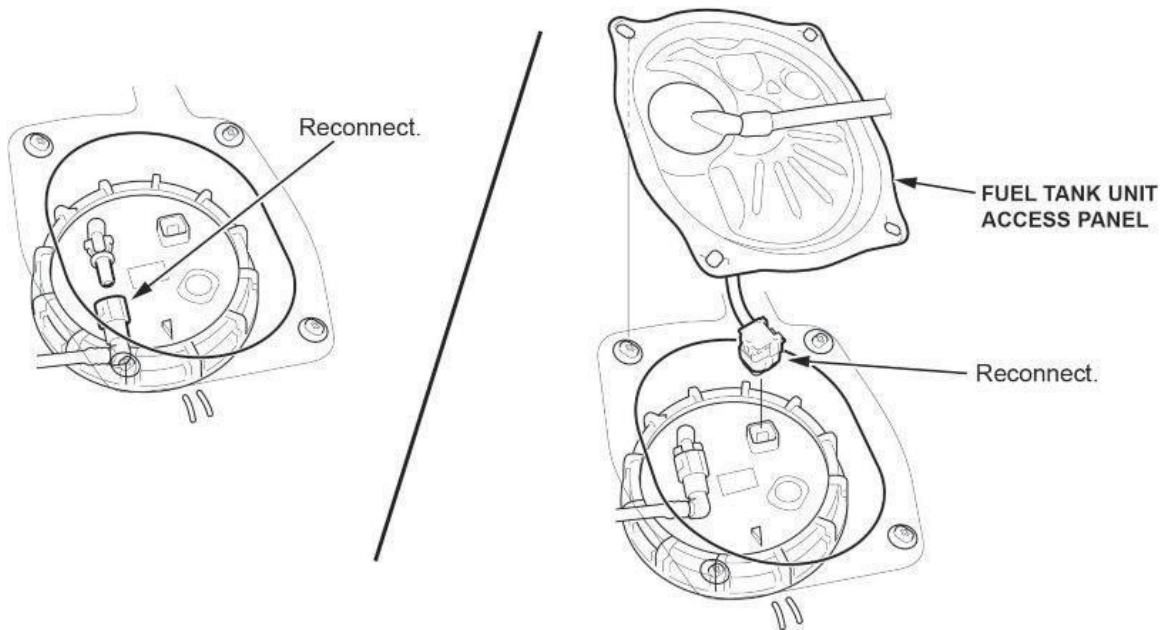
NOTE:

- After tightening, make sure the marks are still lined up.
- Visually or by hand, make sure the O-ring is not pinched.



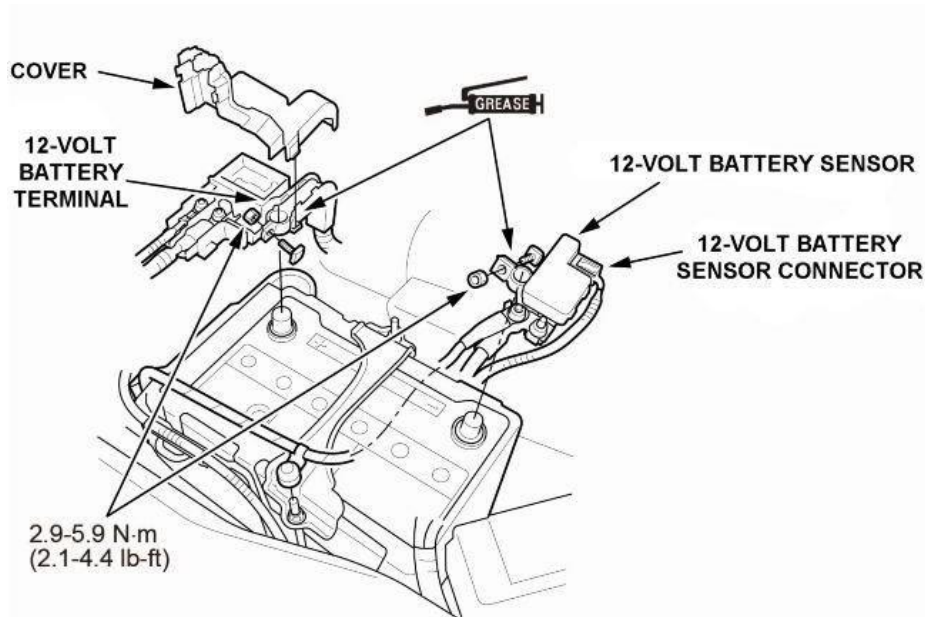
22. Install the new retainer to the quick-connect fitting.

23. Connect the fuel line quick-connect fitting and fuel tank unit connector.



24. Connect the 12-volt battery.

1. Clean the 12-volt battery terminals.
2. Connect the positive cable and the 12-volt battery terminal to the 12-volt battery, then install the cover.
NOTE: Always connect the positive side first.
3. Connect the negative cable and the 12-volt battery sensor to the 12-volt battery.
NOTE: To protect the 12-volt battery sensor connector from damage, do not hold it when installing the negative terminal.
4. Apply multipurpose grease to the terminals to prevent corrosion.



25. Check for fuel leaks.

1. Turn the ignition to ON, but do not turn it to the READY TO DRIVE mode. After the fuel pump runs for about **2 seconds**, the fuel line will be pressurized. Repeat **two or three times**, then make sure there is no fuel leakage.

26. Install the fuel tank unit access panel.

27. Install the remaining parts in the reverse order of removal.

28. Clear all DTCs using an i-HDS.
29. *California residents only:* Fill out a Vehicle Emissions Recall–Proof of Correction certificate and use **VIF** as the recall number. Have the service consultant give the certificate to your client and advise him or her to keep it as proof that the recall was completed. Your client will need to submit this certificate to the DMVC only if the DMV requests it. If you need more certificates, use reorder number Y0657.

Vehicle Emission Recall - Proof of Correction				
License Number	Make	Year Model	Body Type	Vehicle Identification Number
Manufacturer _____			Recall Number _____ VIF	
The above described vehicle has been repaired, modified and/or equipped with emission control devices to meet applicable California Emission Control Laws.				
Dealer's Name _____		Address, City, State and Zip _____		
Date _____		Dealership's Authorized Signature _____		
X				
Return this certificate to DMV only when required - otherwise retain for your records.				