



SAFETY RECALL

CONVENTIONAL FUEL LEVEL SENDER REPLACEMENT

RECALL NO: AAV70
DATE: 8-9-2023
REFERENCE: RCB-005-23

SUBJECT VEHICLES:

Certain 2021, 2022, 2023 and 2024 model year L and XL Hino Conventional trucks that were assembled at the Mineral Wells, West Virginia, USA assembly plant.

Note: Refer to the appropriate Vehicle Identification Number in the warranty system to determine vehicle eligibility.

NEW VEHICLES IN DEALERSHIP INVENTORY As required by Federal law (49 Code of Federal Regulations §577.13), dealerships are not to deliver any new vehicles in their inventory that are involved in a Safety Recall unless the vehicle has been remedied. Refer to the appropriate Vehicle Identification Number (VIN) list to determine vehicle eligibility.

OVERVIEW:

The fuel level sender float connecting rod, which is located inside the fuel tank, may become detached. This may lead to an incorrect fuel level being displayed on the fuel level indicator. The following work procedure provides the necessary steps for replacing the fuel sender gauge with an improved fuel sender gauge.



BEFORE YOU BEGIN:

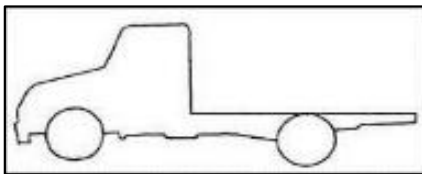
- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **NOTICES** and **WARNINGS** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a level and solid surface and apply the parking brake firmly. Confirm parking brake activation.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Always wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels to prevent the vehicle from moving.

PARTS:

PART NUMBER	PART DESCRIPTION	QUANTITY
SZ17712005	Nut	3
83320E0382	Fuel Level Sending Unit	1
83361E0070	Gasket	1

VEHICLE PREPARATION:

1. Park the vehicle on a level and solid surface. Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.



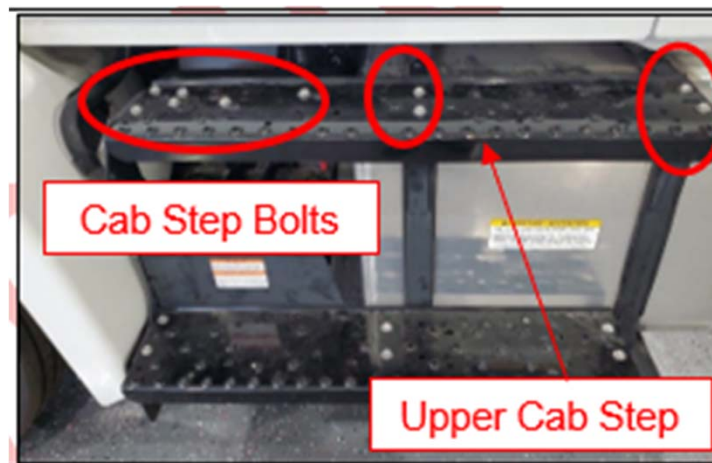
2. Apply the parking brake. Chock all of the wheels.



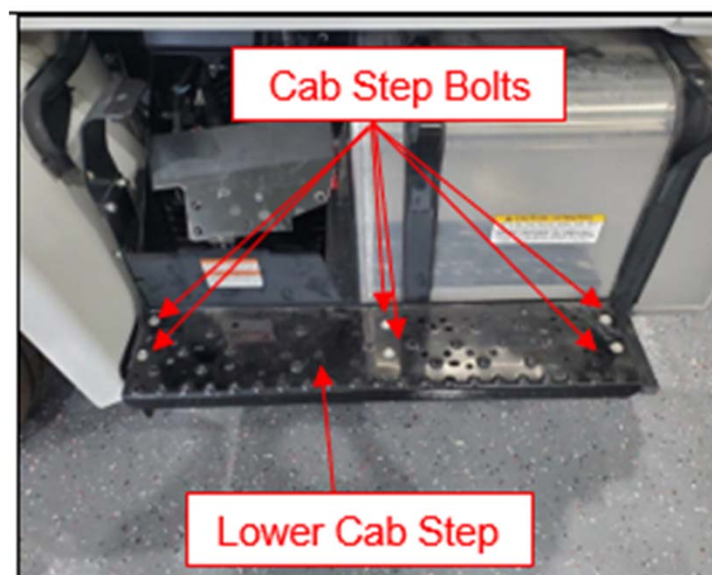
REPAIR PROCEDURE:

1. On the driver's side of the vehicle, remove the upper cab step bolts and upper cab step. Retain the bolts and upper step for later reassembly.

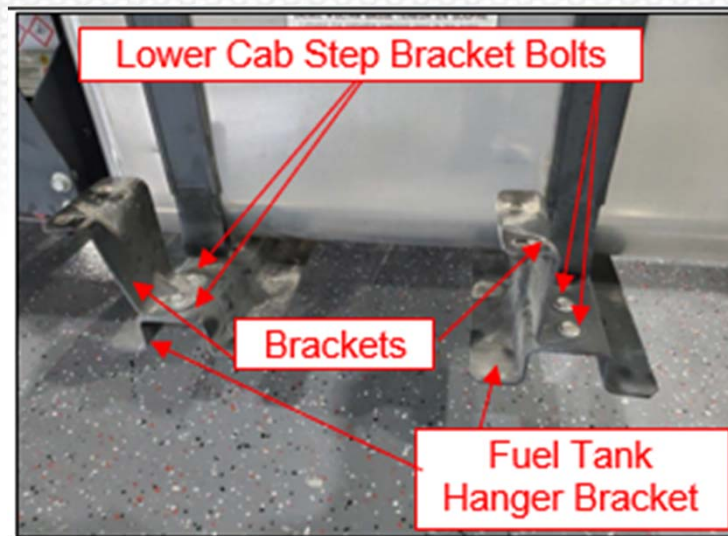
NOTICE: The number of bolts may vary depending on model year and equipment.



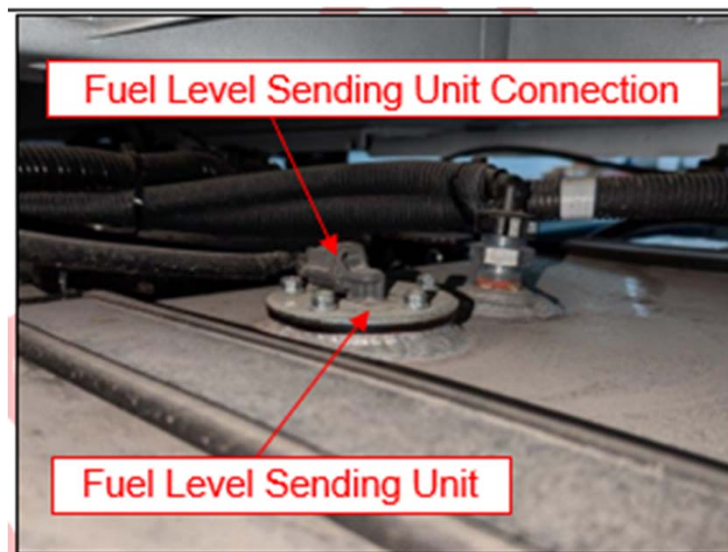
2. On the driver's side of the vehicle, remove the 6 lower cab step bolts and lower cab step. Retain the bolts and lower step for later reassembly.



3. Remove the 4 lower cab step bracket bolts and 2 cab step brackets from the 2 fuel tank hanger brackets. Retain the 4 bolts and 2 cab step brackets for later reassembly.



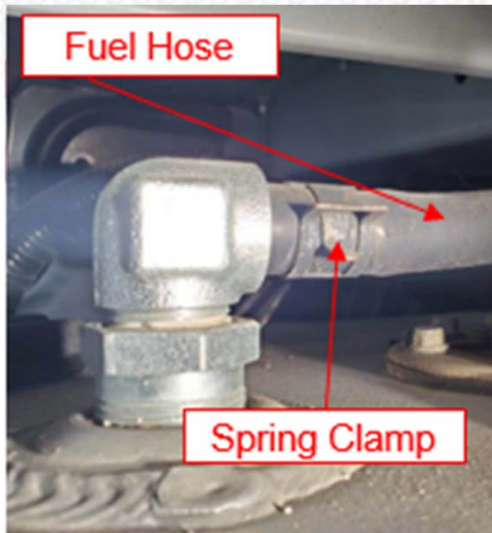
4. Disconnect the fuel level sending unit electrical connection located on top of the fuel tank.



5. The vehicle may be equipped with one of two different style fuel hose or fuel line fitting connections. Which style is installed on the vehicle?

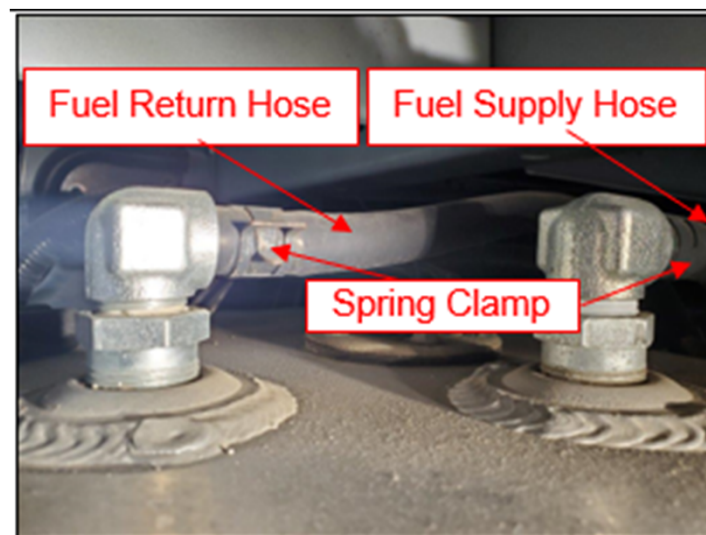
Spring Clamp – Proceed to Step 6.

Plastic Quick Connect – Proceed to Step 7.



6. Release the spring clamp tension and disconnect the fuel supply hose and fuel return hose.

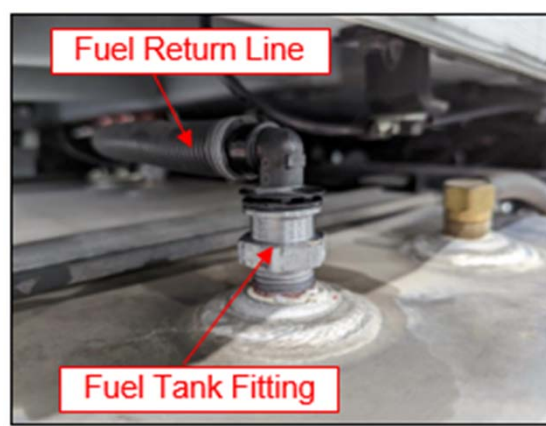
Proceed to **Step 8**.



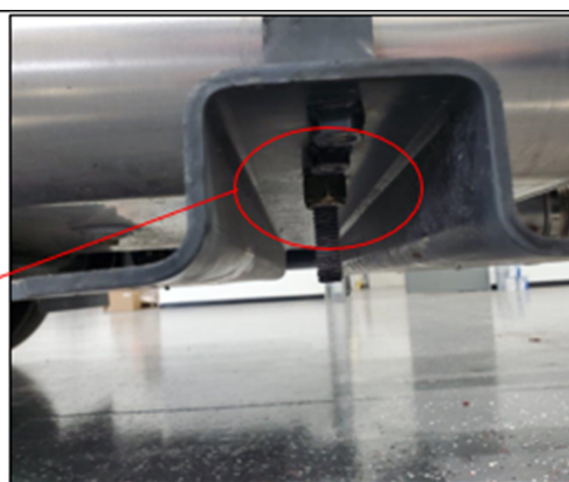
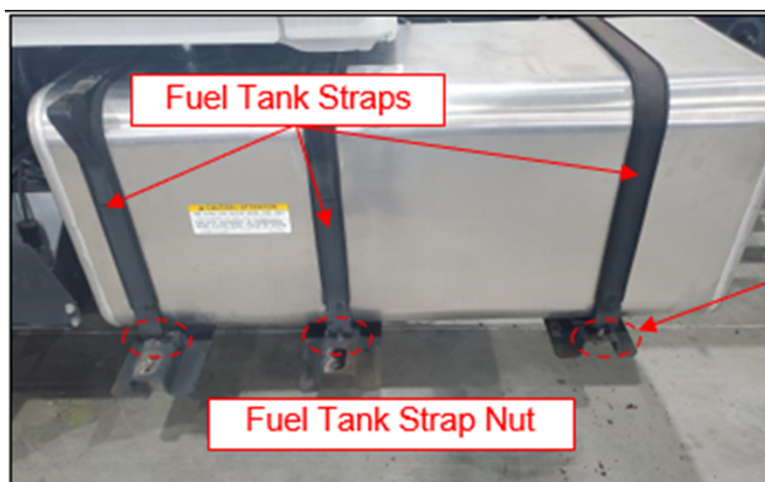
7. Spread the locking ring, slide the locking ring off the plastic quick connector and pull the fuel return line straight up to disconnect from the fuel tank fitting. Retain the locking ring for later reassembly. Repeat for the fuel supply line.

Proceed to **Step 8**.

NOTICE: Care needs to be taken not to damage the locking ring and fuel line O-ring.

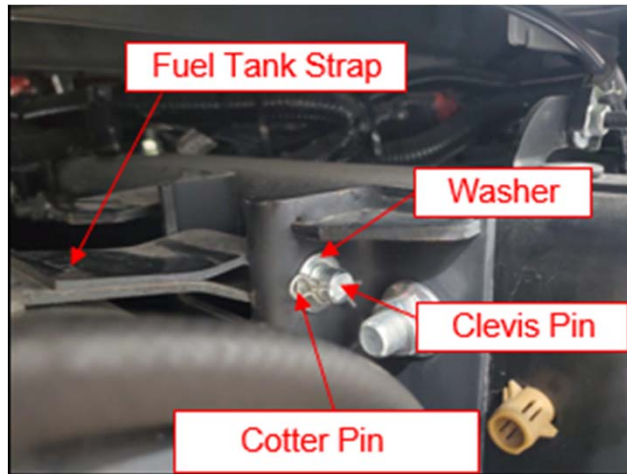


8. Remove the 3 fuel tank strap nuts. Discard the 3 fuel tank strap nuts.



9. For each of the 3 fuel tank straps, remove the cotter pin, washer and clevis pin from the upper fuel tank strap mount. Remove the 3 fuel tank straps. Retain the cotter pins, washers, clevis pins and fuel tank straps for later assembly.

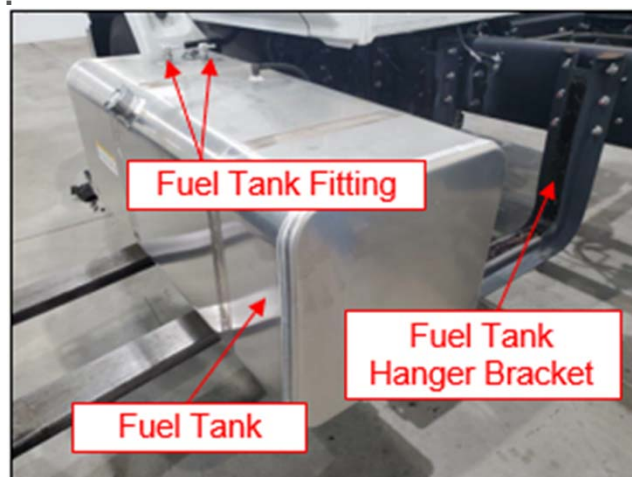
NOTICE: Record the orientation of the cotter pin, washer and clevis pin so that they can be assembled in the same orientation during reassembly.



10. Remove the fuel tank from the vehicle.

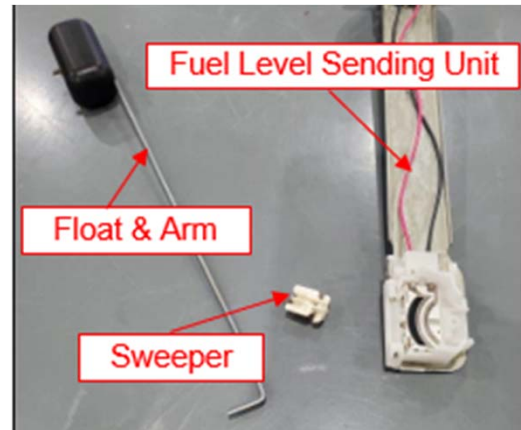
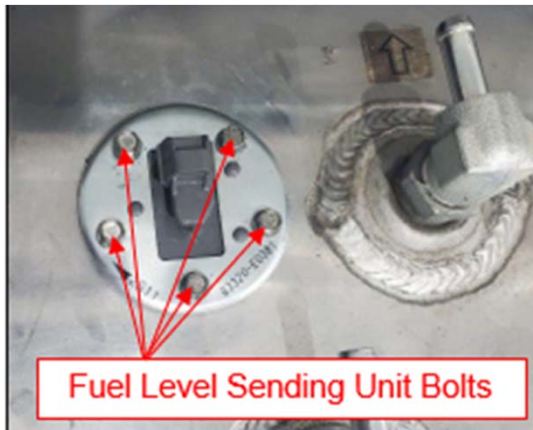
NOTICE: Care should be taken to prevent damage to the fuel tank, fuel lines, fuel hoses, fuel tank fittings and the vehicle cab.

NOTICE: Care should be taken to properly support and secure the fuel tank when removing the fuel tank from the fuel tank hanger brackets.

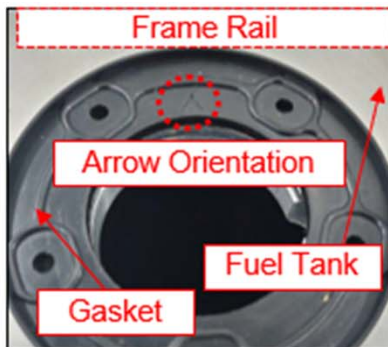


11. On the top of the fuel tank, remove the 5-fuel level sending unit bolts, fuel level sender and gasket. Retain the 5-fuel level sending unit bolts and discard the fuel level sending unit and gasket.

NOTICE: In some cases, the fuel sender may have come apart and is in multiple pieces. Ensure all pieces have been removed from the fuel tank prior to continuing to the next step.



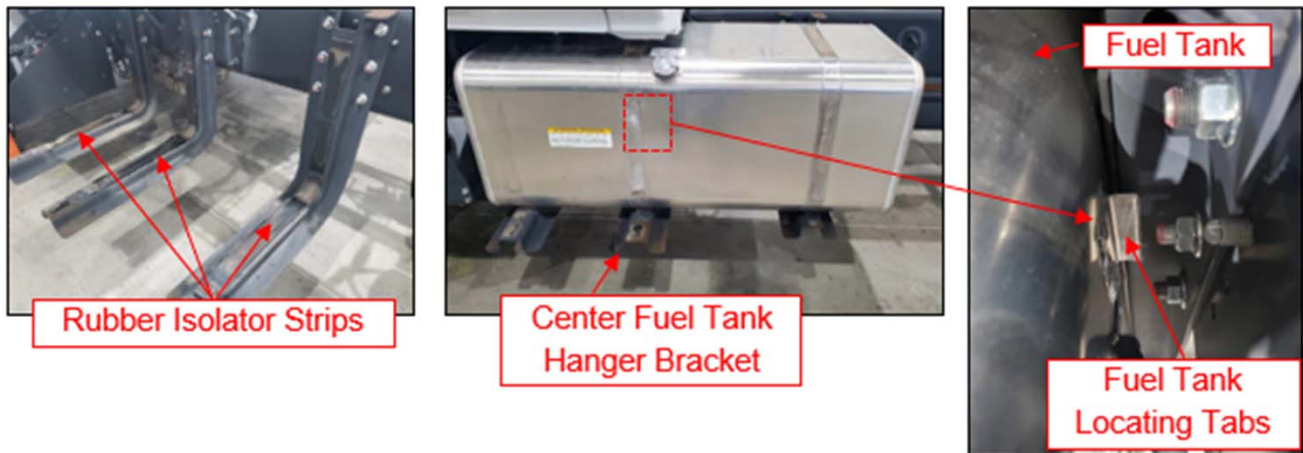
12. Clean the sealing surface of the fuel tank and position the new gasket onto the fuel tank with the arrow facing up and pointing to the frame rail. Install the new fuel level sending unit into the fuel tank with the connector pointing toward the frame rail. Install the 5-fuel level sending unit bolts and tighten to the specified torque in a star pattern.



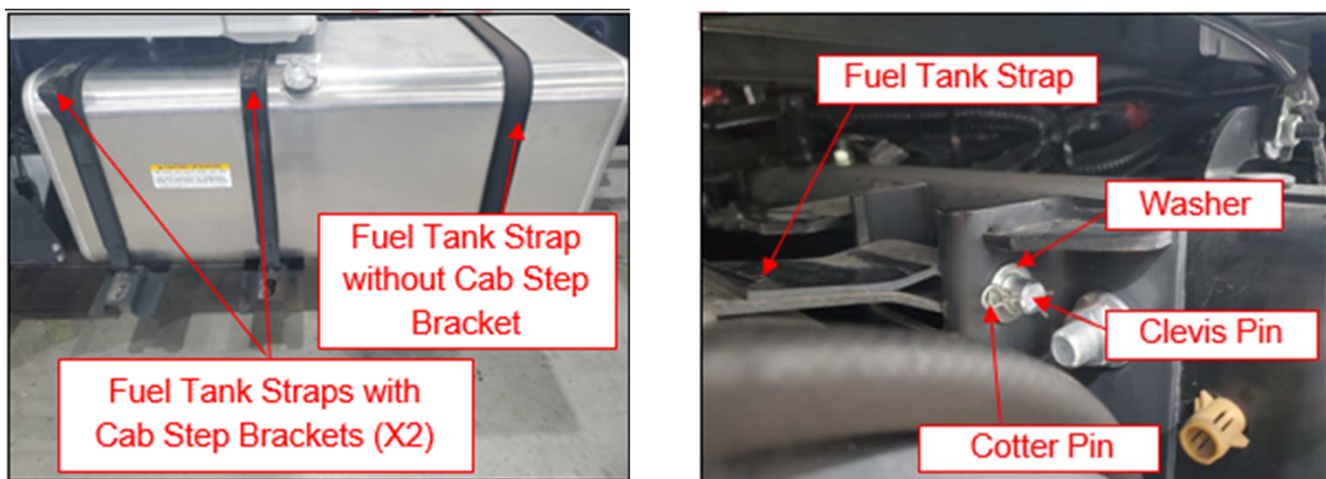
Specified Torque: 25 inch-pounds (2.5Nm)

13. Confirm the rubber isolator strips are correctly positioned on the 3 fuel tank hanger brackets. Position the fuel tank on to the fuel tank hanger brackets. During installation, ensure the locating tabs on the backside of the fuel tank are positioned around the center fuel tank hanger bracket.

NOTICE: Care should be taken to prevent damage to the fuel tank, fuel lines, fuel hoses, fuel tank fittings and the vehicle cab.

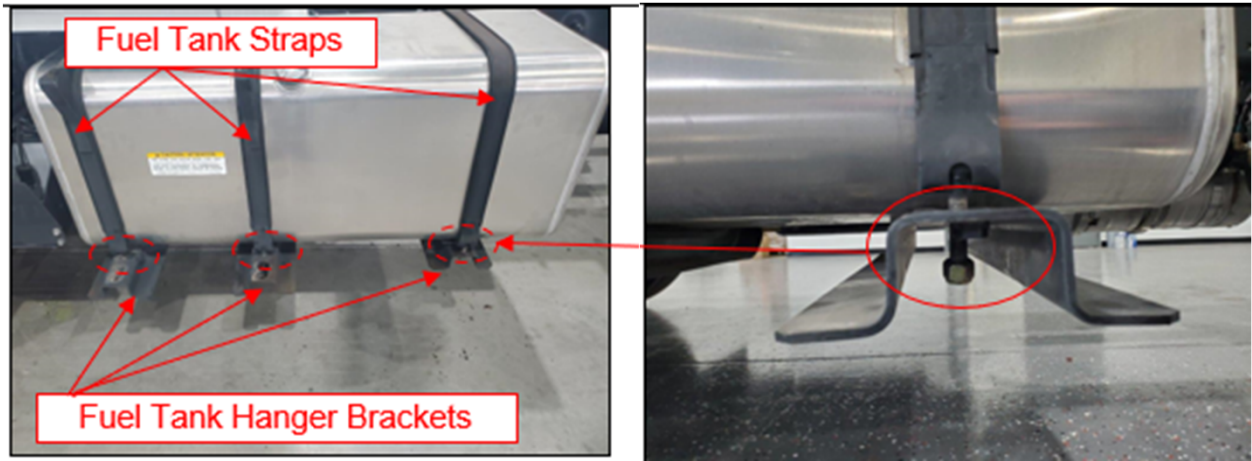


14. Install the 3 fuel tank straps in the correct location as shown. For each of the 3 upper fuel tank strap mounting locations, install the clevis pin, washer and cotter pin.

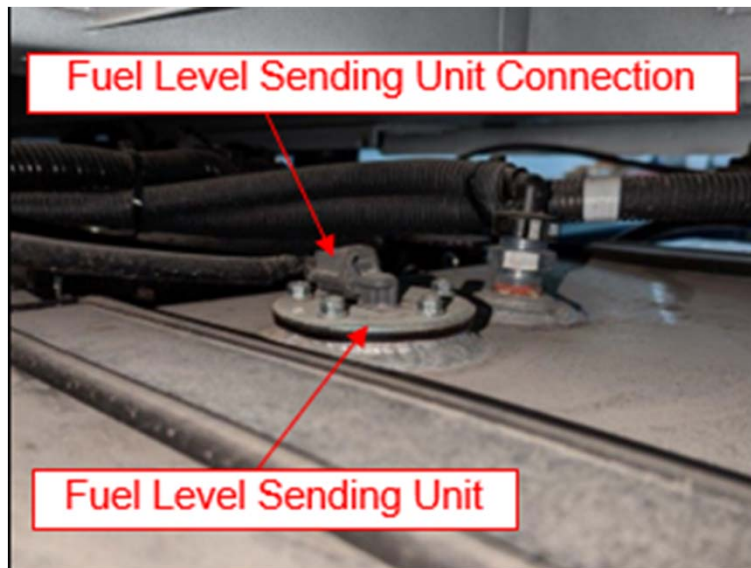


15. Position the threaded end of the 3 fuel tank straps into the fuel tank hanger brackets. Hand start each of the 3 new nuts but do not tighten at this step. These nuts will be tightened to their specified torque during step 21.

NOTICE: Ensure the fuel tank hanger bracket nuts are tightened to the specified torque in Step 21 of this procedure.



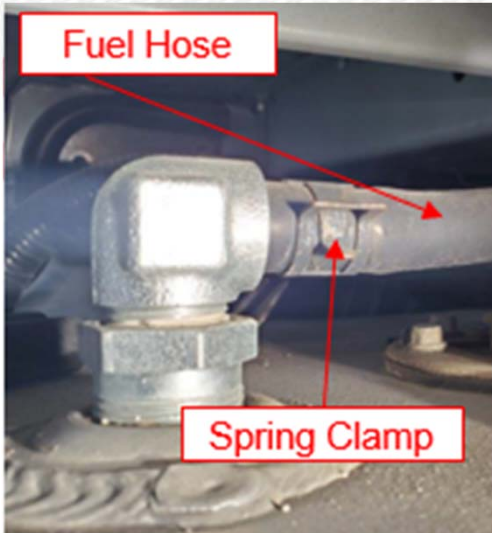
16. Connect the fuel level sending unit electrical connection.



17. The vehicle may be equipped with one of two different style fuel hose or fuel line fitting connections. Which style is installed on the vehicle?

Spring Clamp – Proceed to Step 6.

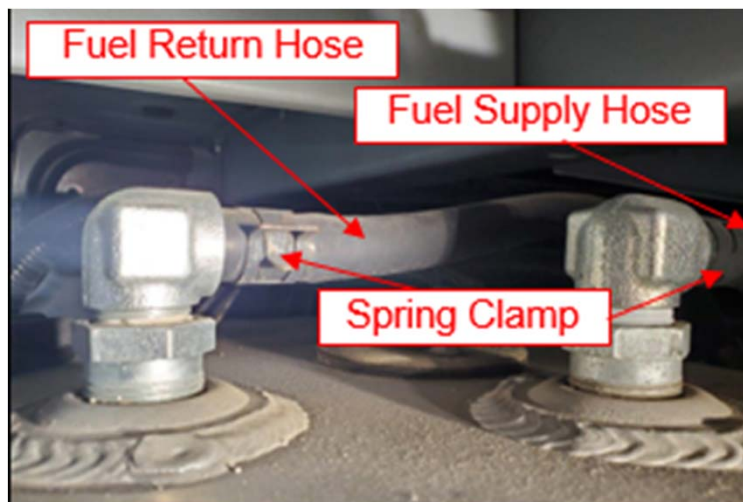
Plastic Quick Connect – Proceed to Step 7.



18. Connect the fuel supply hose, fuel return hose to their corresponding fuel tank fittings and then position the spring clamps back to their original installed positions.

Proceed to **Step 20**

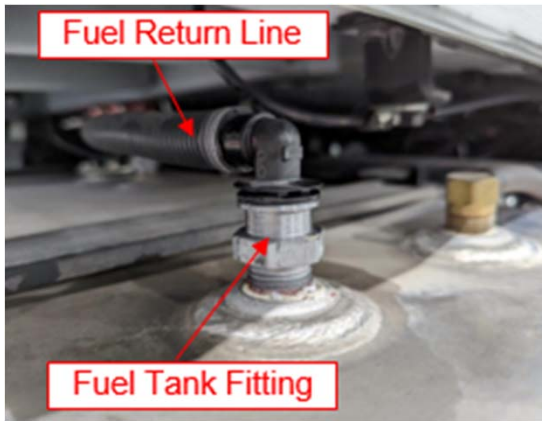
NOTICE: Reconfirm the fuel supply hose and fuel return hoses are NOT accidentally connected to the wrong corresponding fuel tank fittings.



19. Connect the fuel tank return line to the corresponding fuel tank fitting. Spread the locking ring and then slide the locking ring on to the plastic quick connector to engage and lock the connection. Repeat for the fuel supply line.

Proceed to **Step 20.**

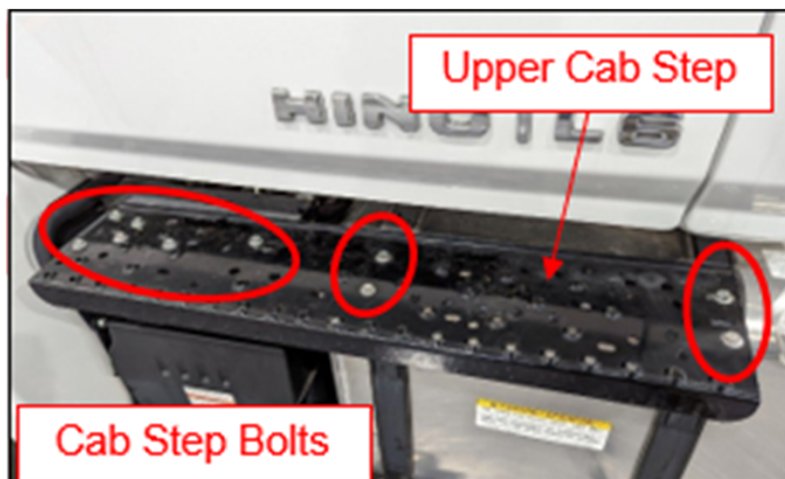
NOTICE: Care should be taken not to damage the O-ring located on the end of the fuel supply line and fuel return line.



20. Install the upper cab step and cab step bolts. Tighten the cab step bolts to the specified torque.

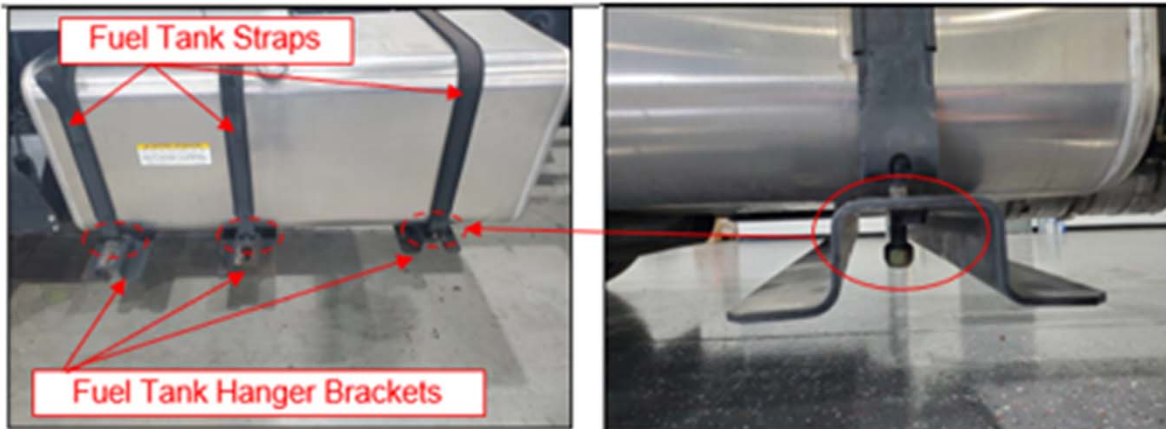
Specified Torque: 32 lb-ft (43 Nm)

NOTICE: The number of bolts may vary depending on model year and equipment.



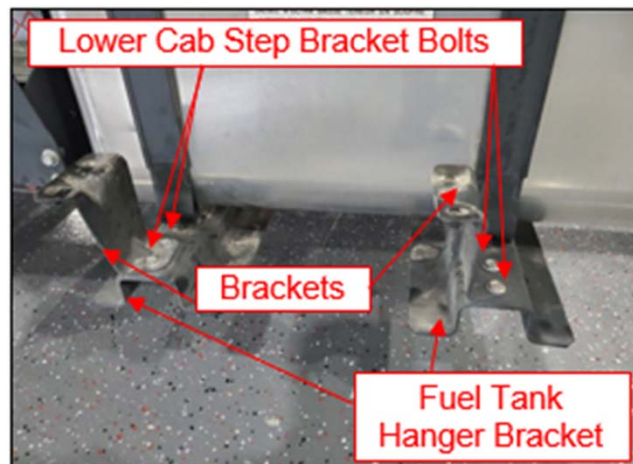
21. Tighten the 3 new fuel tank strap nuts to the specified torque.

Specified Torque: 19 lb-ft (26 Nm)



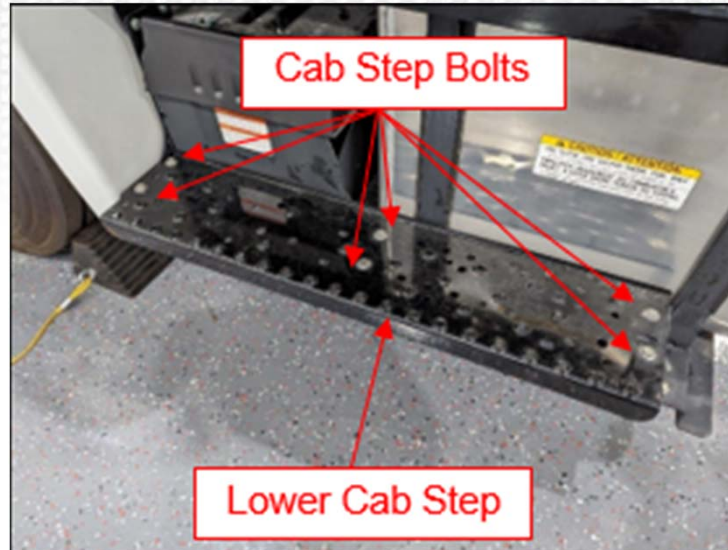
22. Install the 2 cab step brackets and the 4 lower cab step bracket bolts onto the 2 fuel tank hanger brackets. Tighten the 4 lower cab step bracket bolts to the specified torque.

Specified Torque: 32 lb-ft (43 Nm)



23. Install the lower cab step and the 6 cab step bolts. Tighten the 6 cab step bolts to specified torque.

Specified Torque: 32 lb-ft (43 Nm)



FINAL INSPECTION:

1. To complete this procedure review and confirm the following:
 - All components of the old fuel level sending unit have been removed from the fuel tank.
 - All bolts have been tightened to the specified torque.
 - Fuel hose spring clamps have been positioned correctly for the fuel supply and fuel return hoses.
 - Fuel hose quick connector lock rings have been installed on the fuel supply and fuel return quick connect connectors.
 - The fuel level sending unit is electrically connected.
 - The fuel gauge indicates the proper fuel level.
 - Any fuel spillage has been wiped from the outside of the fuel tank.

CLAIM APPLICATION

Reimbursable in accordance within the terms and policies of the Hino limited warranties.

Fuel Level Sender Replacement:

- a) Campaign No.: AAV70
- b) Labor charge: 1.4 Hours
- c) Warranty code: 82662
- d) Trouble code: 98
- e) Operation code: 82650AOT
- f) Original failed part: 9999999999

