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HEAD UNIT INSTALLATION INSTRUCTION FOR CAM LOCK STYLE HEADER

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1 INTRODUCTION

1.1 Disclaimer and Limitation of Liability

 *Read the entire service instructions before beginning the service procedure.*

Disclaimer:

By using this instruction sheet, you agree that other than as expressly stated in the DuraWRX™ Terms and Conditions (Agreement) or as required by the laws of the state of Florida or applicable United States federal law (Applicable Law), this instruction sheet is provided “AS IS” and DuraWRX™ does not make any specific representations or warranties about this instruction sheet. For example, DuraWRX™ does not make any warranties about; (A) the content provided in this instruction sheet; (B) any specific features of this instruction sheet, or its accuracy, reliability, or ability to meet your needs. The knowledge and experience level of users of this instruction sheet vary widely; if you do not have adequate knowledge and experience to use this instruction sheet and safely accomplish the tasks described, please hire a professional to assist you for your safety and the safety of your vehicle and others.

Limitation of Liability:

Except as required by applicable Law, DuraWRX™ its affiliates, officers, directors, employees, and agents will not be responsible for any loss of profits, revenues, business opportunities, goodwill, or anticipated savings, indirect or consequential loss, punitive damages caused by:

1. Errors, mistakes, or inaccuracies in this instruction sheet.
2. Personal injury or property damage resulting from your use of this instruction sheet.

This limitation of liability provision applies to any claim regardless of whether the claim asserted is based on warranty, contract, tort, or any other legal theory.

Use this information at your own risk. Any injury, damage, or loss that may result from the use of the tools, equipment, products, or information contained in this instruction sheet is the sole responsibility of the user.

1.2 Purpose of Technical Bulletin

The purpose of this Technical Bulletin document is to familiarize users with the DuraWRX™ DEF (diesel exhaust fluid) multifunction head unit assembly (MFHU) and provide proper installation instructions for the MFHU assembly into the existing DEF tank assembly.

NOTE: [WARNING, CAUTION TIP] These adjuncts are utilized throughout the entirety of the document. These points are utilized for the purpose of simplicity and to highlight/emphasize important points to be considered. Warnings call attention to the use of materials, processes, methods, procedures, or limits that must be followed precisely to avoid injury to persons and/or damage to the components/equipment. Caution calls for necessary action to be taken or avoid prohibited action. Tip calls attention to methods to ease the task at hand.

1.3 Applicable Part Numbers, Assemblies and/or Applications

Table 1-1

	Source	Document No.	Title/Description
1	DuraWRX	ASPFL-2323	DEF HEADER
2	DuraWRX	ASPFL-2325	DEF HEADER WITH CCV
3	DuraWRX	ASPFL-2326	DEF HEADER
4	DuraWRX	ASPFL-2327	DEF HEADER
5	DuraWRX	ASPFL-2337	DEF HEADER WITH CCV
6	DuraWRX	ASPFL-2339	DEF HEADER
7	DuraWRX	ASPFL-2382	DEF HEADER

1.4 Required Tools and Equipment

Table 1-2

	Required Tools
1	Lockring Tool
2	Ratchet or Breaker Bar

1.5 Definitions/Acronyms

DEF: Diesel Exhaust Fluid

MFHU: Multifunction Head Unit (aka DEF header)

MSU: Multi-parametric Sensing unit

OEM: Original Equipment Manufacturer

PPE: Personal Protective Equipment

CCV: Coolant Control Valve

1.6 Safety Summary

Full safety precautions must be followed throughout all sections of this procedure to prevent any injury, equipment damage, or death. Verify that the area is clear of flammable gases and vapors and proper authorization is obtained to do the work.

Follow Vehicle OEM safety procedures and standards.

NOTE: All the Service Technicians shall be capable of,

1. Testing, assessing, evaluating, servicing, and reconditioning components.
2. Identifying the right tools and equipment to do the job properly and safely.
3. Assuring that the equipment on which work has been performed is safe, reliable, and acceptable for its intended purpose.
4. Identifying defective or additional equipment and potential safety problems, environmental hazards, and code violations.

Some of the procedures in this manual are preceded by warnings and reminders about potential hazards in handling this equipment. All these warnings should be carefully read and understood before proceeding and then be followed closely while performing related tasks.

To prevent physical injury, all personnel directly or indirectly involved with the maintenance of the DEF tank assembly must follow the safety rules listed below when servicing the equipment:

WARNING: Treat all electrical systems as energized, pneumatic systems as under pressure, and mechanical systems as under tension.

WARNING: Irritation can result from exposure to DEF. When working with DEF, ensure the work area is well-ventilated. Wear appropriate PPE such as gloves, eye protection, long sleeves, etc. Failure to comply could result in injury to personnel.

WARNING: If DEF has come into contact with skin, wash the affected area thoroughly with soapy water. If irritation persists, seek medical attention. If it has come into contact with the eyes, flush thoroughly with water and seek medical attention if irritation persists. If DEF is ingested, do not induce vomiting, drink plenty of water, and contact a physician if symptoms become present.

WARNING: DEF is corrosive to many materials. In the event of a spill, DEF should be contained, cleaned, and disposed of in accordance with standard operating procedures.

WARNING: Ensure the coolant is at a safe temperature before performing any maintenance procedures. Make sure all the pressure has been relieved from the coolant unit system. Wear appropriate PPE. Failure to comply can cause serious skin and eye injuries and respiratory illness.

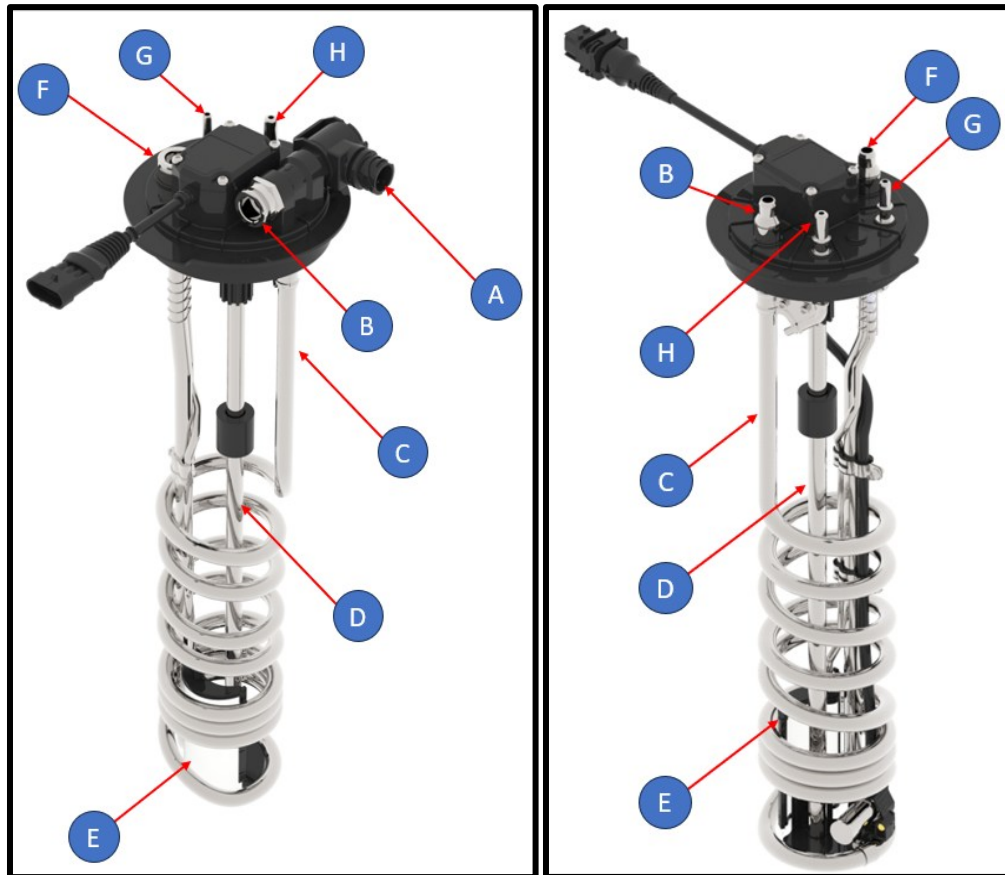
2 GENERAL OVERVIEW

 The Images shown in this document are for reference only. Tank/MFHU Shape and size may vary.



Figure 2.1 Multifunction Head Unit

2.1 Multifunction Head Unit Assembly



With CCV

Without CCV

Figure 2.2 Multifunction Head Unit Components

Table 2-1

Item. No	Description	Qty
A	CCV (If Applicable)	1
B	Coolant Outlet Fitting	1
C	Heat Exchanger	1
D	Sensor	1
E	Suction Filter	1
F	Coolant Inlet Fitting	1
G	DEF Suction Tube	1
H	DEF Return Fitting	1

2.2 MFHU Removal

! Removal of the multifunction head unit (head Unit) requires the use of personal protective equipment including but not limited to goggles and gloves.

Tip: Note down the head unit orientation on the DEF tank.

- 1) Clean surfaces around the head unit prior to removing the head unit.
- 2) Remove the head unit following OEM service procedure.
- 3) Keep the mounting O-ring on a clean surface for re-use.
- 4) After removing the OEM multifunction head unit, properly discard the head unit in compliance with local government/State disposal regulations.

2.3 MFHU Installation Instructions

! Installation of the multifunction head unit requires the use of personal protective equipment including but not limited to goggles and gloves.

! Remove protective cover from fittings prior to head unit installation.

! Durawrx DEF headers does not come with replacement O-ring. Clean the existing O ring and Keep it on the clean surface to reuse. Durawrx recommends using a new O-ring

- 1) Ensure the O-ring mounting surface on the tank is clean. Place clean new O-ring on the tank groove. Silicone based lubricant must be applied to the O-ring before Installation.



Figure 2.3 O-Ring Installation

-
- 2) Install the Multifunction Head unit into the tank.



Figure 2.4- Multifunction Head Unit Installation

- 3) Orient the head unit as per the previous head unit position.

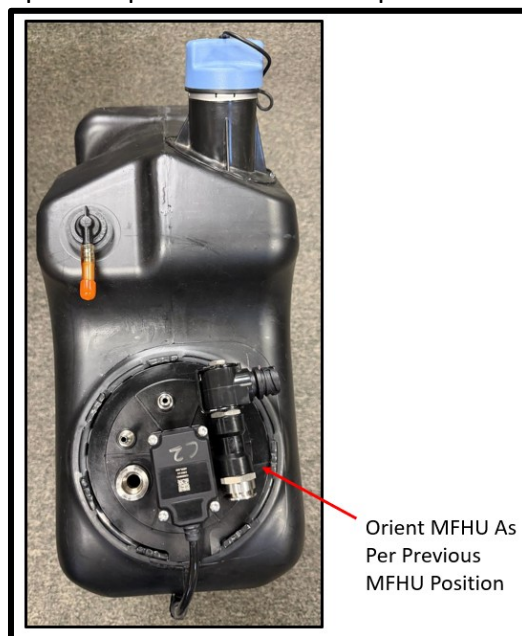


Figure 2.5- Multifunction Head Unit Orientation

-
- 4) Install the lock ring as shown in the pic below.

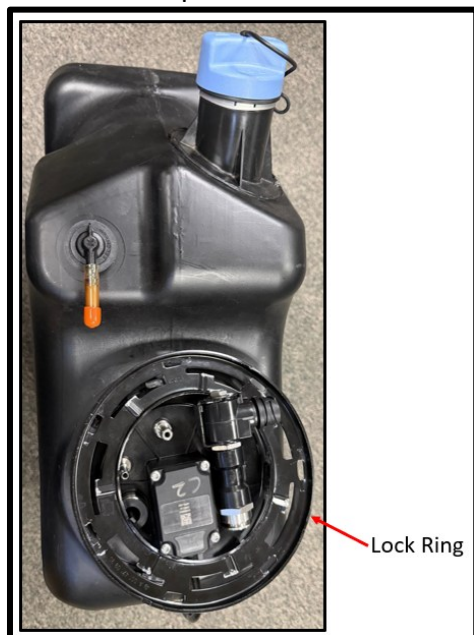


Figure 2.6 Installation of Lock Ring

- 5) Feed the Electrical cable through lock ring as shown and push the ring down aligning the tabs with the slots on the ring.

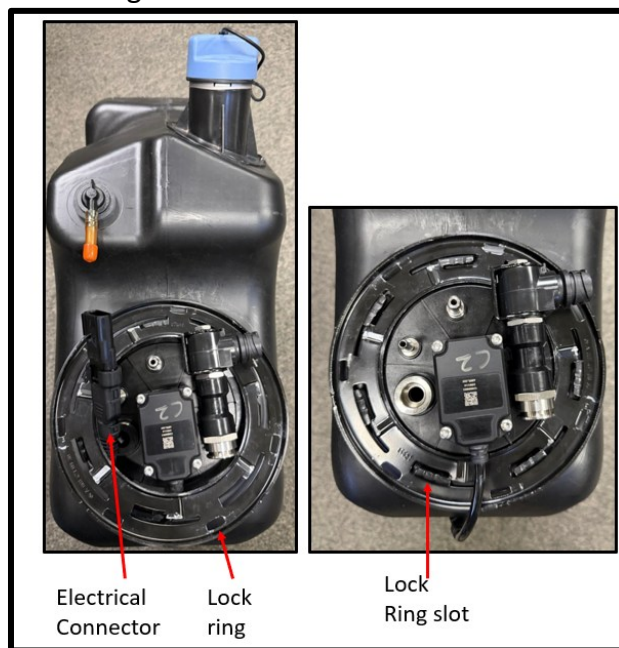


Figure 2.7 Installation of Lock Ring

- 6) Using the lock ring tool, rotate the lock ring clockwise to the locked position, ensuring the notch is positioned under the slots.

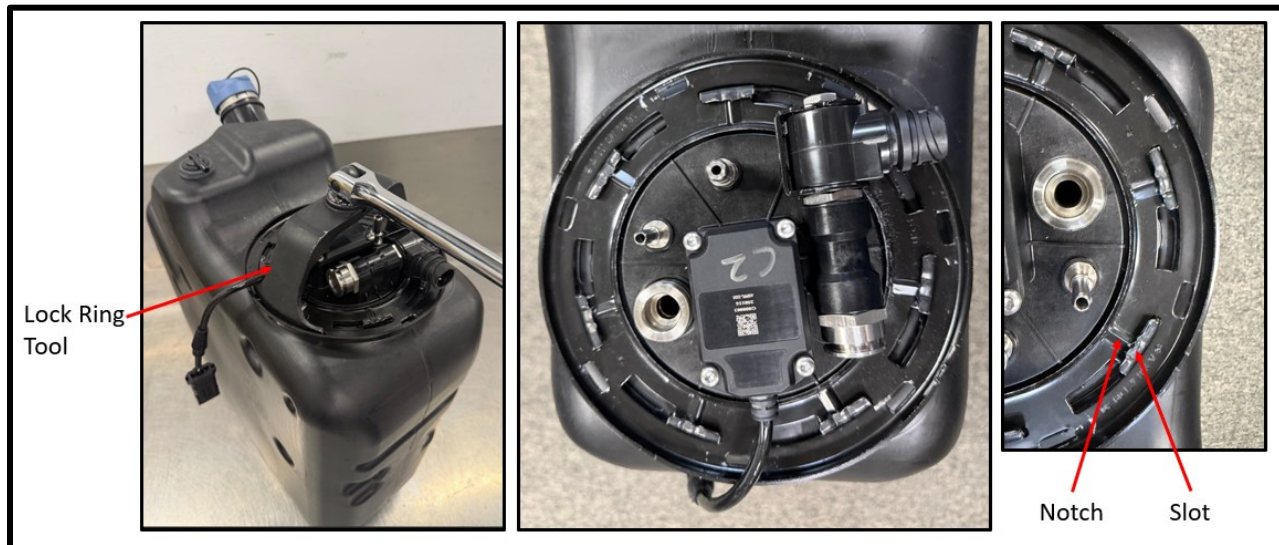


Figure 2.8 Lock Ring Tool

- 7) Install a DEF suction hose to the DEF suction fitting per OEM service procedure. The below **Figure 2.9** shows the suction fitting location.



The DEF suction fitting location might be different from the current OEM head unit.

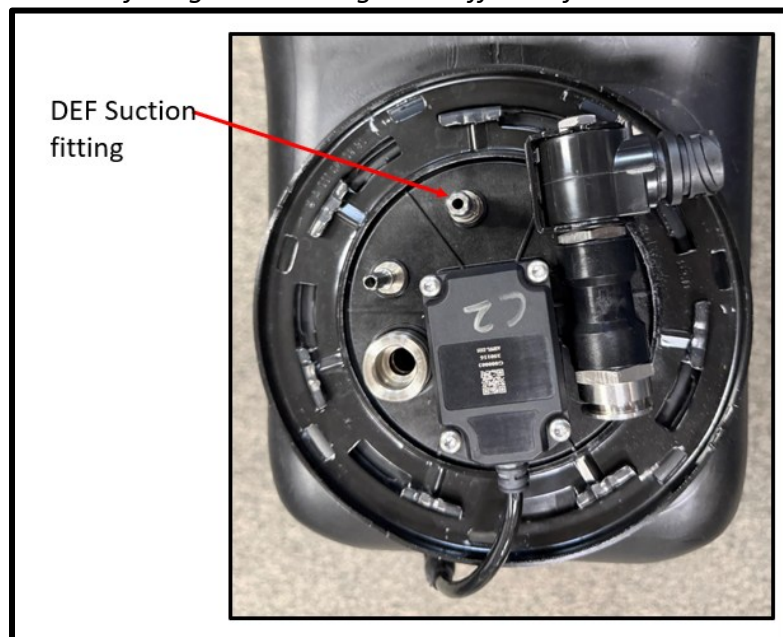


Figure 2.9 DEF Suction Fitting Location

- 8) Install a DEF return hose to the DEF return fitting per OEM service guidelines. Below **Figure 2.10** shows the return fitting location.



The DEF return fitting location might be different from the current OEM head unit.

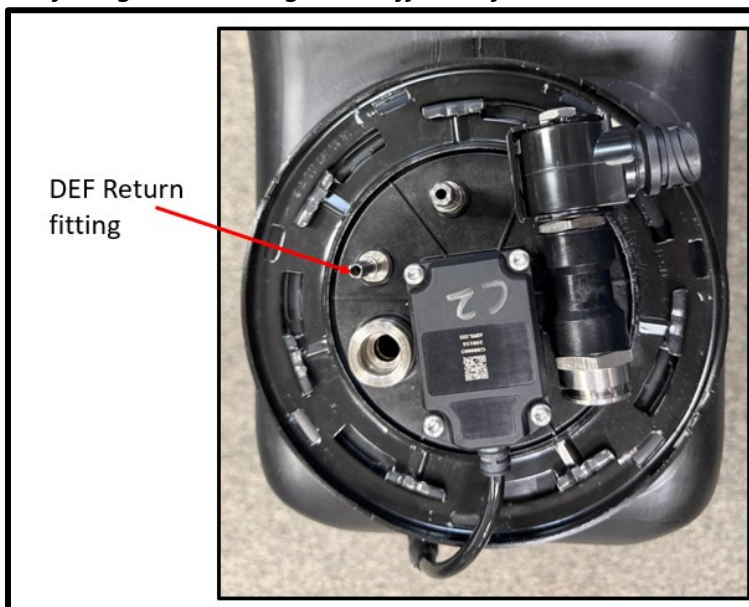


Figure 2.10 DEF Return Fitting Location

- 9) Install coolant inlet hose per OEM service procedure. Refer **Figure 2.11** for coolant inlet fitting location.

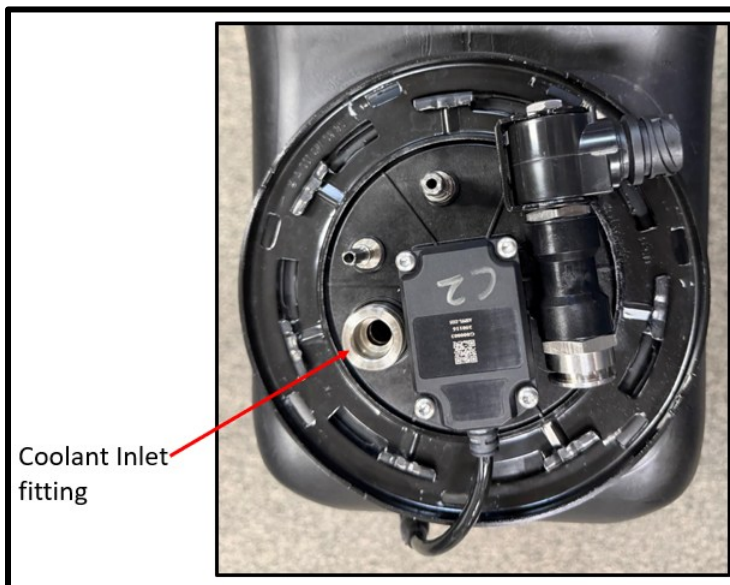


Figure 2.11 Coolant inlet fitting location

- 10) Install coolant outlet hose per OEM service procedure. Refer **Figure 2.12** for coolant outlet fitting location.

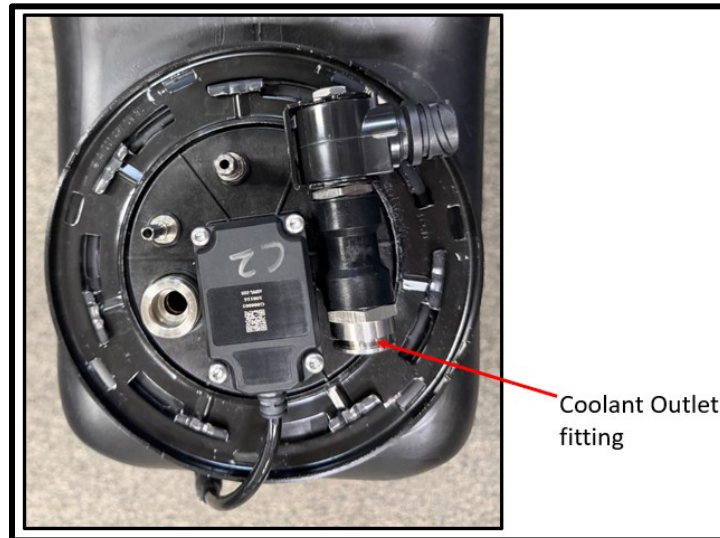


Figure 2.12 Coolant Outlet Fitting Location

- 11) Attach electrical connector to sensor and CCV (if applicable) and ensure all connections are secure.

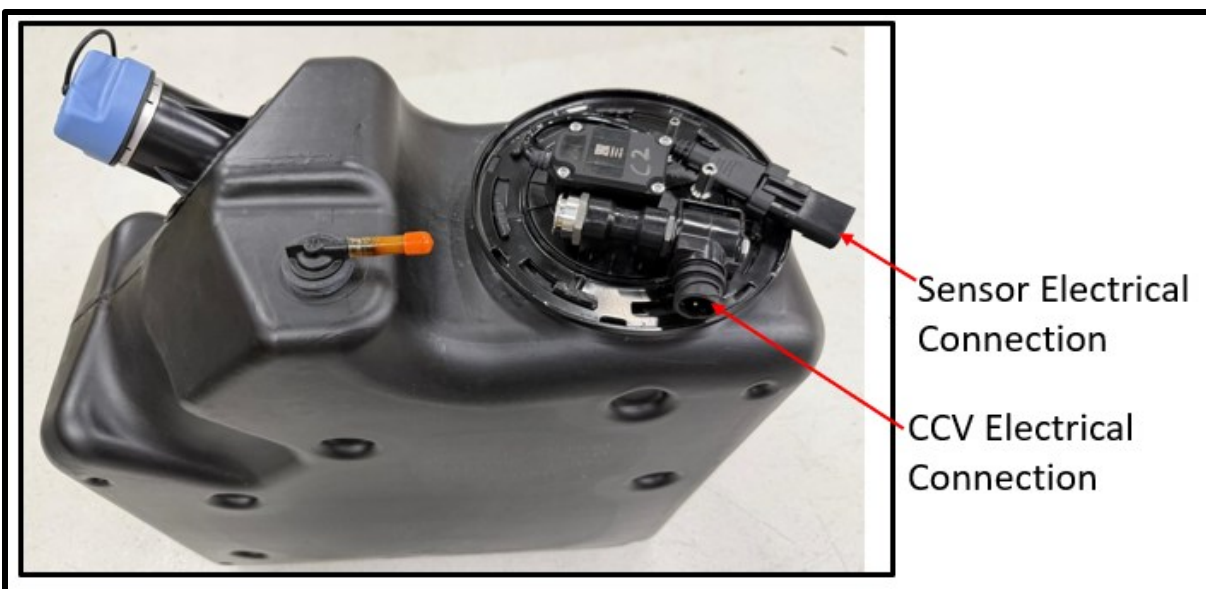


Figure 2.13 Electrical connection