



## EQUIPMENT RECALL

ER24-014A

DATE : May 2024 SECTION : 22 HVAC
SUBJECT: PREHEATER HYDRONIC L2 - REWORK
CLEANING INSTRUCTIONS FOR THE PRECISE
CO2 MEASUREMENT

Revision: A

Add information related to production date 09-16-2024

## APPLICATION

Part No.	Description
870012	PREHEATER HYDRONIC L-II

## DESCRIPTION

### For Canadian customers:

On preheaters (coolant heaters) produced between May 2023 and January 2024 are affected by this recall, Eberspächer will inspect all preheaters and, if required, clean the preheater's internal components, replace damaged components, and adequately adjust the air to fuel ratio per the supplier's instructions.

## The work will be performed by an authorized Eberspächer dealer.

### Eberspächer rework cleaning instructions # 25.2486.95.2683.0A.

Meanwhile, the supplier's recommendation is to immediately stop using the coolant heaters until they are remedied.

### For US customers:

On preheaters (coolant heaters) produced between May 2023 and January 2024 are affected by this recall, Prevost will inspect all preheaters if installed on a vehicle, and, if required, clean the heater's internal components, replace damaged components, and adequately adjust the air to fuel ratio per the supplier's instructions include with the bulletin.

### The work will be performed by Prevost.

Meanwhile, the supplier's recommendation is to immediately stop using the coolant heaters until they are remedied.

For non-installed preheaters (coolant heaters), see part return instruction section.

## FOR US CUSTOMERS ONLY

## MATERIAL

Order parts that may be required:

Part No.	Description	Qty
870106	FUEL ATOMIZER NOZZLE	1
870101	IGNITION ELECTRODE, WITH CHECK GAUGE	1
870077	BURNER	1
870088	PUMP, 24V COMPLETE	1
870100	IGNITION SPARK GENERATOR, 24V, WITH CHECK GAUGE	1
870102	NOZZLE PREHEATER 24V	1
870139	ELECTRIC MOTOR, 24V, INCL. COUPLING	1
870260	CONTROL UNIT	1

## NOTE

Material can be obtained through regular channels.

## TOOLS

TPI 708 COMBUSTION EFFICIENCY ANALYZER WITH FLUE PROBE



## SAFETY PRECAUTIONS

- Eye protection should always be worn when working in a shop.
- Rules for Personal Protection Equipment should always be respected. Wear your PPE including but not limited to the following:

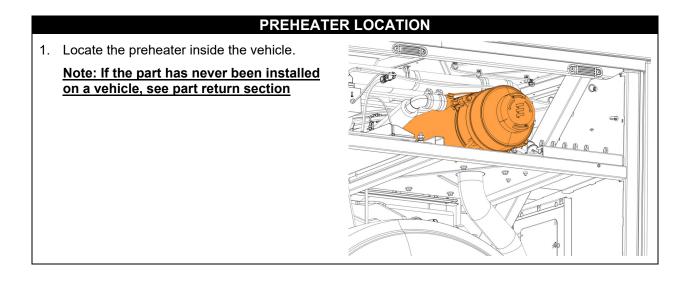


## PROCEDURE



Park vehicle safely, apply parking brake, stop the engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.





	PERFORM REWORK				
1.	See the Eberspächer rework cleaning instructions # 25.2486.95.2683.0A. at appendix A.	A WORLD OF COMFORT			
		EN / VEHICLE HEATERS / TECHNICAL DOCUMENTATION			
		REWORK CLEANING INSTRUCTIONS FOR THE PRECISE CO2 MEASUREMENT HYDRONIC L2			
2.	Before completing the bulletin, you must fill in the form inside the Eberspächer document and add the VIN.	2 Confirmation form for rework action i NOTE The rework form must be completed for each reworked heater/burner			
3.	Attach form to warranty email: prevost.warranty@volvo.com, please make sure you have added the VIN.	Customer			

PART RETURN INSTRUCTION (US customer only)
1. Go to Warranty online.
https://prevostcar.com/contact/warranty
OUR WARRANTY SUPPORT TEAM
WARRANTY CLAIMS         Need to submit or manage your warranty claims? Login to our Online Warranty System         Online Warranty Login page
2. Login to Online warranty.
Online warranty
Identification
User id Password
Continue Change password Reset password Acrobat
3. Select "CREATE CLAIM"
PREVOST 6 Online warranty
CREATE CLAIM CLAIM STATUS CHANGE VEHICLE OWNERSHIP VEHICLE INFORMATION

4.	Select warranty claim type, "Equipment Recall"	
•	PREVOST.	Online warranty
	Varranty claim type   Vehicle (24 months)   Bulletin / Recall   Equipment Recall   Parts   Goodwill   Powertrain / Extended     * Digits only	Next
5.	Fill the form:	
	Serial number: ER24014XXXXXXXXXXX	
	Mileage: 100	
	Mileage unit: <b>MI</b>	
	Failure date: <b>yyyy/mm/dd</b>	
6.	Click on "Next"	
e.	Cancel	Online warranty
Γ	Warranty claim type	
	Equipment Recall v	
	Vakiela infor	
	Vehicle infos Serial number ER24014XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	Mileage <b>100</b> * Digits only	
	Mileage unit MI 🗸 *	
	Failure date 2024/04/19 * 🖶 yyyy/mm/dd	

7.	Fill the form:						
	Authorization: ER24014						
	Repair order #: ER24014						
	Recall Number: ER24014						
	Complaint: Equipment recall						
	Cause: Equipment recall						
	Correction: Equipment recall						
8.	Click on "Next"						
		Equipn	nent	Recall			
	Cancel Attachments				Previous		Next
	Tailure description						
Se	Failure description erial number ER24014XXXXXXXXXX	Veh. std wa	arranty	start date	2024/04/09		
Un	nit Number	Veh. std wa	arranty				
	ut # ileage 100 MI	Failure date Repair orde			2024/04/19 ER24014	*	
	uthorization# ER24014 *	Breakdown		drivable)			
Re	ecall Number ER24014 *	Causal part	t#				]
Con	Equipment recall nplaint *						
CON	npiant						
6	Equipment recall						
Cau	ise *						
	Equipment recall						
Cor	rection *						
					<u> </u>		
Spe	ecial instructions						
					6		
9.	Fill the information about the part.						
	Part Number: 870012						
	Quantity: <b>1</b>						
10.	Click on "Next"						
		Equipn	nent	Recall			
	Cancel Attachments				Previous		Next
	Parts Entry Serial number ER24014XXXXXXXX Reparts	air order # E	R2401	4			
	Lot #				R		
	Unit					<b>n</b> :	Falsa da d
	Part Number Quantit	ty	Unit		Description	Price unit	Extended price Delete
	870012 1		EA	WATER HE	ATER HYDRONIC L-II	878.57	878.57

11. Nothing to fill for the labor.			
12. Click on "Next"			
	Equipment Recall		
Cancel Attachments		Previous	Next
Labor/Other Costs			
Unit Number Lot #			
	ir order # ER24014		
Labor /hours Rate		Freight	\$
	Miscellaneous		Ex
Description	Quan	ntity	Price unit
13. Click on "Submit" to submit the claim			
	Equipment Recall		
Cancel Submit			Previous
Claim summary			
	Customer:	Owner:	
	Veh #: ER24014 Seria	al number: ER24014X	XXXXXXXXX
	Unit Number: Lot #: Warranty start date: 20	24/04/09 To	
Remit to:	Months in service: 0	21/01/05 10	
	Veh. under warranty: N		
	Fail date: 2024/04/19	-	
	Repair order # ER2401	4	
	Description of failure		
Complaint Equipment recall			
Cause			
Equipment recall			
Correction Equipment recall			
	ol :		
PD Part Number Descrip	Claim summary Oua	ntity Price unit	Extended price
I 870012 WATER HEATER HYDRONI		1.000 878.57	878.57
Part	s total		878.57
	otal		878.57

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	Menu ?	Online warranty
Shipping Instruction	Equipment Recall	New claim same job
AFA #: Status: Remit to:	Customer: Veh #: ER24014 Serial Unit Number: Lot #: Warranty start date: 202 Months in service: 0 Veh. under warranty: No Fail date: 2024/04/19 M Reference:	Tech. Pub.#
	Description of failure	
Complaint		
Equipment recall		
Cause 🖓		
Equipment recall		
Correction		
Equipment recall		
	Claim summary	
PD Part Number Desc		e unit Extended price Tx1 Tx2 Total
PD Part Number Desc ( 870012 WATER HEATER HY	cription Quantity Price	e unit Extended price Tx1 Tx2 Total 878.57 878.57 0.00 0.00 0.00

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## PARTS DISPOSITION

All replaced parts must be returned to Prevost according to the Return Shipping Instructions available on <u>www.prevostcar.com</u> (under service / warranty section) for full reimbursement. A copy of the warranty claim form must be enclosed with the shipment.

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

## WARRANTY

This modification is covered by Prevost's normal warranty. We will reimburse you the parts and 1 1/2 hour (1.5) of labor upon receipt of and a completed A.F.A. Please submit claim via our Online Warranty System, available at <u>www.prevostcar.com</u> (under service \ warranty section).

## OTHER

VBC Bulletin Fail Code	N/A 22.09	Access all our Service Bulletins on <u>http://techpub.prevostcar.com/en/</u> or scan the QR-Code with your smart phone.	
Defect Code Syst. Cond	09 R	E-mail us at <b>technicalpublications prev@volvo.com</b> and type "ADD" in the subject to receive our warranty bulletins by e-	2321
Causal Part	870012	mail.	



# **Appendix A**

# Eberspächer rework cleaning instructions # 25.2486.95.2683.0A





EN / VEHICLE HEATERS / TECHNICAL DOCUMENTATION

# REWORK CLEANING INSTRUCTIONS FOR THE PRECISE CO<sub>2</sub> MEASUREMENT HYDRONIC L2

#### Engine-independent water heater for diesel fuel

#### Designation

Hydronic L16 Hydronic L24 Hydronic L30 Hydronic L35

#### Order No.

25.2486.02.0000 25.2487.02.0000 25.2599.02.0000 25.2600.02.0000

#### Order No. - compact version

25.2487.05.0000 25.2599.05.0000 25.2600.05.0000

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Eberspächer

## 1 REWORK INSTRUCTION

- 1.1 Rework steps
  - 1.1.1 CO<sub>2</sub> Measurement
  - 1.1.2 Options how to proceed
  - 1.1.3 Dismantling the heater
  - 1.1.4 Dry-clean the components
  - 1.1.5 Assembling the heater
  - 1.1.6 Air flap in centre position
  - 1.1.7 Adjusting the air flap

## 1 Rework instruction

- The following steps have to be carried out to clean the Hydronic L2 heater properly and to set the CO<sub>2</sub> measurement value.
- These Hydronic L2 heaters and Hydronic L2 burners are affected: Parts produced as of May 1st 2023 until January 31th 2024.
- All documents needed are attached to the heater or are available online at: <u>https://partner.eberspaecher.com/de</u>

## (i) NOTE

Please record your rework action in this document on page 5 and send it to Eberspächer to have your costs reimbursed.

#### 1.1 Rework steps

#### 1.1.1 CO<sub>2</sub> Measurement

- > Measure and determine the current CO<sub>2</sub> value during the operation of the heater.
- > Use a suitable CO<sub>2</sub> measuring device, e. g: MSI 150 Euro flue gas analyser 5600593
- > Connect the CO<sub>2</sub> measuring device to the exhaust system of the heater.
- > Wait about 60 seconds after starting the heater, until the combustion runs stable, or longer, depending on the ambient conditions (until you hear a stable and even combustion!).

! CAUTION!

#### **RISK OF POISONING**

- Do not operate the heater longer than necessary.
- Switch off the heater after you have measured a reliable CO<sub>2</sub> value.

## i note

- You will find the CO<sub>2</sub> specification in the Technical Description of the heater.
- The Technical Description of the heater
  - is attached to the product
  - is available online at: https://partner.eberspaecher.com





#### 1.1.2 Options how to proceed

- The  $\text{CO}_2$  value is within the tolerance.
  - $\rightarrow$  No further step is necessary.
- The CO<sub>2</sub> value is outside the tolerance, but the heater was not in operation (with combustion).
  - $\rightarrow$  Continue with chapt. 1.1.6.
- The CO<sub>2</sub> value is outside the tolerance and the heater has been in operation (with combustion)
  - → Carry out chapt. 1.1.3 to chapt. 1.1.7

#### 1.1.3 Dismantling the heater

- > Remove the hood, the burner and the combustion chamber from the heat exchanger.
- In doing so, please consult and follow the disassembly steps in the Troubleshooting and Repair Instructions of the Hydronic L2 heater.

## (i) NOTE

You will find the Troubleshooting and Repair Instructions of the Hydronic L2 heater online at: <u>https://partner.eberspaecher.com</u>



#### 1.1.4 Dry-clean the components

- > Dry-clean all components contaminated with black soot (burner, hood, combustion chamber, heat exchanger).
- > Use a cleaning cloth and a suitable wire brush.
- > Soot particles can be sucked out of the heat exchanger with a dust extractor.

## (i) NOTE

- Please consider the local regulations regarding dust classes.
- If the fuel nozzle is affected with residues, it must be replaced.
- $\rightarrow$  See troubleshooting and repair instructions.

## U CAUTION!

#### **RISK OF DAMAGED SURFACES**

- Do not damage the surfaces of the heat exchanger.
- $\rightarrow$  Use a wire brush only.
- → Do not use liquid cleaners, e. g. brake cleaner.

#### **RISK OF DAMAGED COMPONENTS**

• When cleaning the burner, always pay attention to sensitive components, e.g. plug- and-socket connections.

#### **RISK OF FUEL BLOCKAGE**

- The fuel nozzle is a very sensitive component. Do not touch it under any circumstances.
- → If the fuel nozzle is dirty, it must be replaced (see Repair Instructions).



> See example pictures below for cleaning the combustion chamber and the heat exchanger:





Combustion chamber before ... and after cleaning.





Heat exchanger before

... and after cleaning.

## 1.1.5 Assembling the heater

> Assemble the heater as described in the Troubleshooting and Repair Instructions.

## 1.1.6 Air flap in centre position

- > Loosen the two screws on the air adjustment flap and roughly adjust as shown in the picture on the right (medium setting of the flap).
- > This prevents further coarse soot formation during fine adjustment.



#### 1.1.7 Adjusting the air flap

- > Allow the heater to warm up and measure the CO<sub>2</sub> values by using a suitable CO<sub>2</sub> measuring device.
- > Set the correct CO<sub>2</sub> value by turning the air adjustment flap.

## (i) NOTE

- Turn the air adjustment flap
  - to the left: increase of the CO<sub>2</sub> value.
  - to the right: decrease the  $CO_2$  value.
- In order to obtain a valid result, wait approx.
   100 s after each small adjustment of the air flap until the actual CO<sub>2</sub> value is displayed.
- > When the correct CO<sub>2</sub> value is reached,
  - turn off the heater.
  - tighten the screws of the air flap.



#### Confirmation form for rework action 2

## (i) NOTE

The rework form must be completed for each reworked heater/burner

Customer		
Installation Date		
	st measurement	
CO2 – value after r		

Short description of performed work

The rework will be reimbursed by Eberspächer Climate Control Systems as follows:

- CO2 on heater or on burner must be adjusted (heater was not in operation)  $\rightarrow$  5AW
  - = 30 minutes
- CO2 on heater or on burner must be adjusted (heater has been in operation) Heater must be cleaned
  - → 15AW = 90 minutes

Please send this completed form and the invoice including the labour costs to the following invoice address with reference

#### HL-II CO2 adjustment rework to:

CC-Warranty-Service@eberspaecher.com PL-OL-faktury@eberspaecher.com

Invoice recipient, stated on the invoice: Eberspächer Climate Control Systems Sp. z o.o. **Climate Control Systems** Godzikowice 50 P 55-200 Oława Polska







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