

ADDRESSEES	: Owners and operators ABC Customer Care and Parts Source
VEHICLE MODEL	: CX35/CX45 without combustion heater
MANUAL CHAPTER	: 08.06 Climate control – Water circuit
BULLETIN TYPE	: Product improvement
DATE	: July 12 th , 2021
SUBJECT	: Introduction of new interior heating circulating pump
TERMS & CONDITIONS	: This document does not entitle to any reimbursement

INTRODUCTION:

Van Hool has released circulating pump Aquavent 4800 SC (VH11507929) as replacement for the previously installed FT5000 circulating pump (VH11444635).

Please refer to the material list and step-by-step instructions when replacing a FT5000 circulating pump by a Aquavent 4800 SC circulating pump.

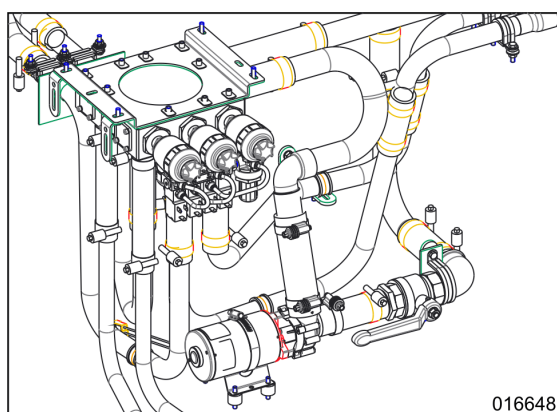


Figure 1: FT5000 coolant circulating pump located in compartment in front of left drive axle wheels

SPECIAL TOOLS:

This job requires:

- a coolant hose pinch-off pliers (1x) (VH A996250061);
- crimping tool for Fastin/Faston connector terminal: VH313640617.

JOB QUALIFICATION:

The task has to be carried out by an experienced automotive technician.

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COMPONENTS:

Components of conversion kit VH11726559		
<p style="text-align: center;">11507929 (1x)</p> <p style="text-align: center;">660768403 (1x)</p> <p style="text-align: center;">660766300 (2x)</p> <p style="text-align: right;">016647 Figure 2</p>		
VH reference	Description	Quantity*
11507929	Coolant circulating pump Aquavent 4800 SC	1
660768403	2-pin connector socket	1
660766300	Female connector terminal	2

*Sufficient for one vehicle

PREPARATIONS:

- Park the vehicle on a level floor. Apply the parking brake. Stop the combustion engine. Switch off all systems and turn off the battery isolation switch on the dashboard.
- Install a "DO NOT OPERATE" warning message on the steering wheel.
- Put chocks in front of and behind the front-axle wheels.
- **Read the entire procedure before starting to work.**



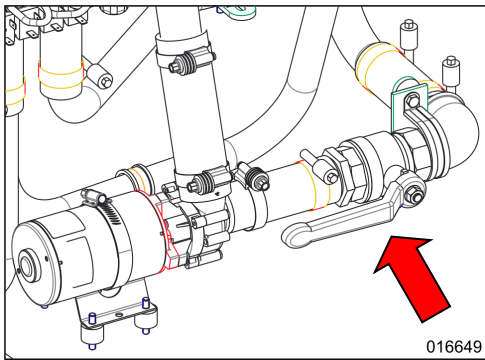
WARNING!

Observe safe shop practices at all times.

PROCEDURE:

Step	Action
1	Open the exterior access door in front of the left drive wheels.
2	<p>WARNING! Carefully slacken the filler cap on the coolant expansion tank and let the pressure escape. Once all the pressure is off, continue to turn.</p> <p>Unscrew the filler cap from the expansion tank and remove it.</p>
3	Install a suitable container under the circulating pump to collect the coolant.

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<p>4</p>	<ul style="list-style-type: none"> • Close the manual valve in the supply line to the interior heating. To this end, turn the manual-valve handle clockwise until the handle is perpendicular to the line. • Pinch off the circulating pump outlet line with a special pair of pliers (see under special tools).  <p style="text-align: right;">Figure 3: Isolating valve in heating system supply line</p>
<p>5</p>	<p>Disconnect the electrical connector of the pump.</p>
<p>6</p>	<p>Disconnect both hose clamps at the pump.</p>
<p>7</p>	<p>Undo the mounting clamp around the circulating pump and remove the pump.</p>
<p>8</p>	<p>Slide the connections of the new circulating pump in the silicone hoses. Install the circulating pump with the mounting clamp, but do not yet tighten the clamp!</p>
<p>9</p>	<p>Check the alignment of the silicone hose with respect to the circulating pump. Adjust when necessary. Tighten the clamps of the silicone hoses to a torque of 7 ± 0.5 Nm (62 ± 4 in.lbf). Tighten the circulating-pump clamp.</p>
<p>10</p>	<p>At the vehicle wiring side, modify the electrical wiring for the circulating pump as follows:</p> <ol style="list-style-type: none"> a. Cut the wires at the existing connector socket. Strip back the wires. b. Crimp the brown and red electrical wires each to a cable terminal 660766300 from the kit. c. Introduce the cable terminal with the red wire into the 2-pin connector socket 660768403 from the kit, so that, when you connect the connector later on, the red electrical wire is connected with the black-white electrical wire from the pump. d. Introduce the cable terminal with the brown wire into the 2-pin connector socket. e. Connect the 2-pin connector.
<p>11</p>	<p>Open the manual valve in the supply line to the interior heating. Remove the special pairs of pliers in the circulating pump outlet line.</p>
<p>12</p>	<p>Check the coolant level in the coolant expansion tank. Top up coolant if necessary.</p>
<p>13</p>	<p>Screw the filler cap on the expansion tank.</p>
<p>14</p>	<p>Go for a ride to warm up the engine (operating temperature).</p>

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15	Stop the engine and check the installation for leaks. Retighten the hose clamps to a torque of 7 ± 0.5 Nm (62 ± 4 in.lbf). Seal the head of the fastening screw with a spot of lacquer to indicate that the hose clamp is correctly tightened. To avoid damage to hose or hose clamp, do not retighten sealed hose clamps!
16	Check the coolant level as soon as the installation has cooled down completely. Top up coolant if necessary.

End of procedure

DISCLAIMER:

The procedures contained herein are not exclusive. Van Hool cannot possibly know, evaluate, or advise the transportation industry of all conceivable ways in which a procedure may be undertaken or of the possible consequences of each such procedure. Other procedures may be as good, or better, depending upon the particular circumstances involved. Each carrier who uses the procedures herein must first satisfy itself thoroughly that neither the safety of its employees or agents, nor the safety or usefulness of any products, will be jeopardized by any procedure selected.

INFORMATION HANDLING:

Important additions and modifications regarding technical information not yet included in the manual will be communicated through Service Bulletin.

VAN HOOL CUSTOMER PORTAL:

Consult the customer portal regularly for the latest service documentation. In addition to the maintenance manual, you will also find the operating manual and the spare parts catalogue of your vehicle on the customer portal. The customer portal is accessible through www.vanhool.be, but only with a code (password) from Van Hool. If you do not have a password yet, request it by using the link on the Van Hool website.