



OEnoviaFioul Confort OSCR 45 - OSCR 60 - OSCR 90 – OSCR 120

EN

Diagnostic aid - Evolutions

JS



N° ITOE0232-en



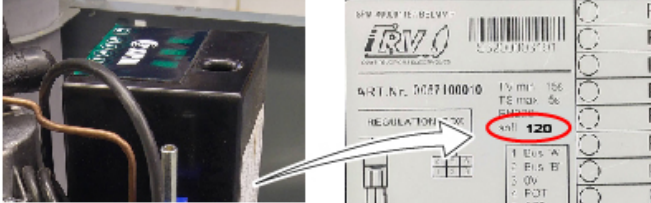
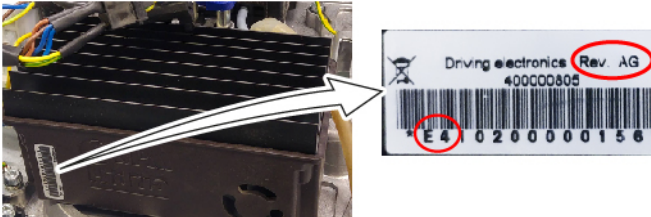
31/08/2020

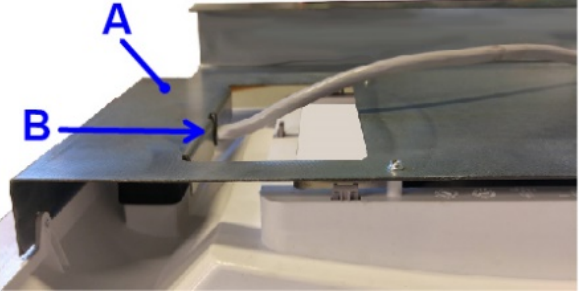
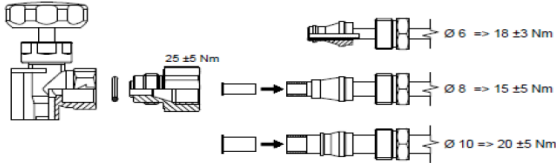
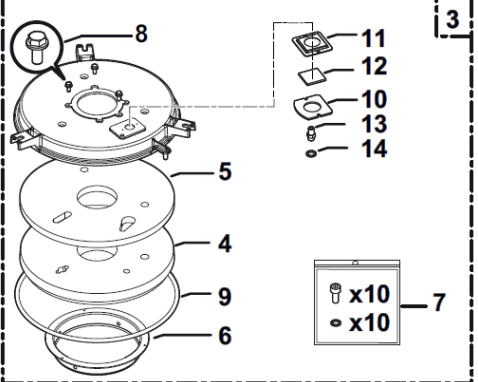
For your Information and diagnostic aid :

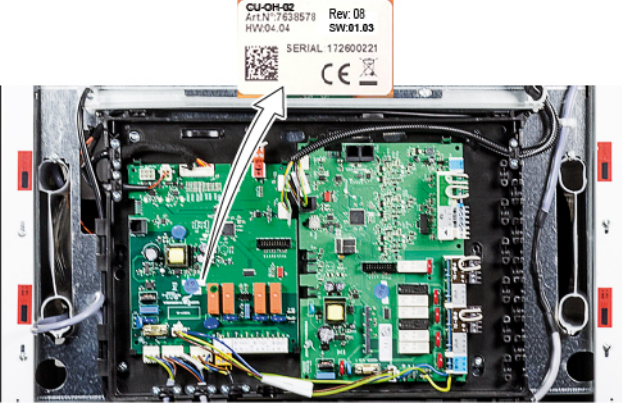
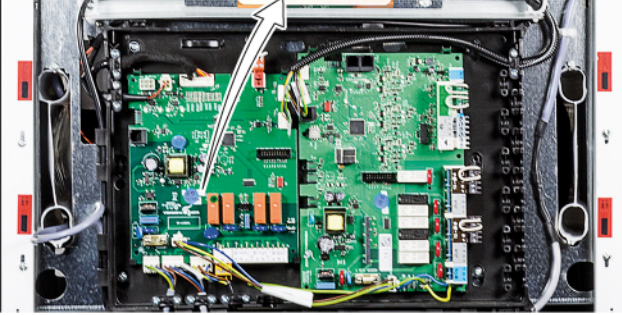
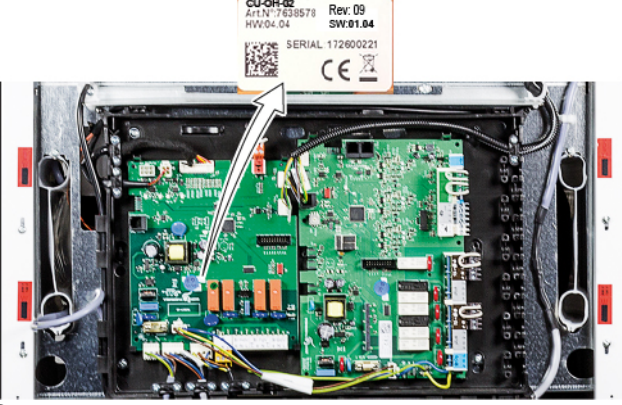
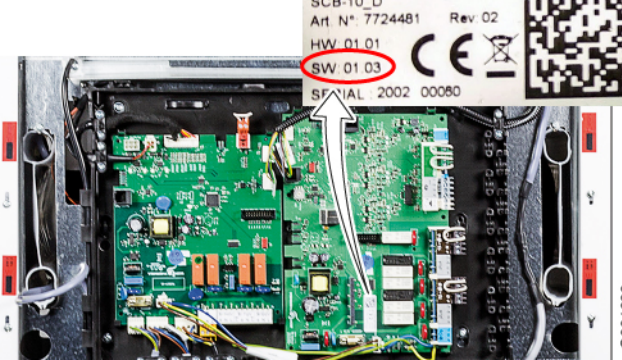
1. First of all, check that the installation complies with the **rules to be followed** as indicated in the technical information [ITOE0229](#).
2. Check the following evolutions and improvements, which may provide a solution if problems persist.

IMPORTANT: A preventive update is not necessary !

Symptoms / Error-Codes (Please also refer to the list of error codes in the manual)	Other possible causes (in addition to the causes listed in the manual)	Evolutions / Description	Appliances concerned / Application dates
<p>- Starting difficulties: ignition or flame detection failure:</p> <p>E07.14 (Burner 1) E07.29 (Burner 2)</p> <p>- Flame loss:</p> <p>H01.03 E07.20 (Burner 1) E07.35 (Burner 2)</p>	<p>The flame tube can become loose and create a parasitic recirculation.</p>	<p>Flame tube with a locking boss.</p>  <p>Spare parts: 7661453 Flame tube</p>	<p>Only OSCR 60 /120</p> <p>04.03.2020</p> <p>from burner serial number starting with : 040320...</p>
<p>- Starting difficulties: ignition or flame detection failure:</p> <p>E07.14 (Burner 1) E07.29 (Burner 2)</p>	<p>Spray angle too narrow</p>	<p>New Steinen oil nozzle 80°S with larger spraying angle, facilitates ignition.</p>  <p>Spare parts: 7737903 Oil nozzle Steinen 80°S</p>	<p>Only OSCR 60 /120</p> <p>02.01.2020</p> <p>from burner serial number starting with : 020120...</p>

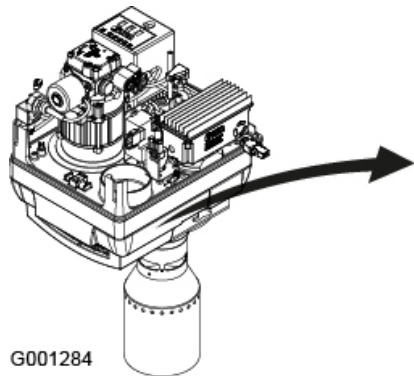
Symptoms / Error-Codes (Please also refer to the list of error codes in the manual)	Other possible causes (in addition to the causes listed in the manual)	Evolutions / Description	Appliances concerned / Application dates
<p>- Flame detection difficult</p> <p>- Ignition fault: E07.14 (Burner 1) E07.29 (Burner 2)</p> <p>- Flame loss: H01.03 E07.20 (Burner 1) E07.35 (Burner 2)</p>	<p>Under certain conditions, the KLC 2002 flame detection cell does not deliver a reliable signal (two-phase networks, floating neutral, etc.).</p>	<p>New flame detection cell IRD 1010.1.</p>  <p>Spare parts: 7611747 Flame detection cell IRD 1010.1 (red)</p>	<p>All</p> <p>17.09.2019</p> <p>from burner serial number starting with: 170919...</p>
<p>- Untimely ignition failures:</p> <p>E07.14 (Burner 1) E07.29 (Burner 2)</p>	<p>The RV safety control box with software 117 can be disturbed by the communication with the control system during the safety time, and report a "flame fault" even if the flame is detected.</p>	<p>The new software version 119 of the RV safety control box solves this problem. To check the software version, see the label:</p>  <p>Spare parts: 7661730 Safety control box BB-LMV-P</p>	<p>Mainly OSCR 60 /120 (Modification applied to the whole range).</p> <p>18.03.2020</p> <p>from burner serial number starting with: 180320...</p>
<p>- Burner motor error :</p> <p>E07.16 (Burner 1) E07.31 (Burner 2)</p>	<p>The 2 components (safety control box and motor control box) contain a motor monitoring function which can trigger a safety shutdown in case of a fluctuation of the mains voltage or micro cut-offs.</p>	<p>The RV safety control box with software 120 incorporates a new logic that increases the tolerance ranges to reduce the number of trigger occurrences. To check the software version, see the label:</p>  <p>Spare parts: 7661730 Safety control box BB-LMV-P</p>	<p>All</p> <p>Foreseen introduction date in the factory: 30.09.2020</p>
		<p>New version of the motor control box:</p> <ul style="list-style-type: none"> - Software-Version (Rev AG) : the minimum switching power of the motor control box has been lowered. - Hardware-Evolution (from serial number starting with E4...) : resistance changed to increase the high limit. <p>To check the software version, see the label:</p>  <p>Spare parts: 7661523 Motor control box for modulating burner.</p>	<p>All</p> <p>18.03.2020</p> <p>from burner serial number starting with : 180320...</p>


Symptoms / Error-Codes (Please also refer to the list of error codes in the manual)	Other possible causes (in addition to the causes listed in the manual)	Evolutions / Description	Appliances concerned / Application dates
<p>- The display or the boiler switches off for no reason.</p>	<p>False contact or gap at the on/off switch.</p>	<p>Evolution of the PCB protection A with maintaining B of the switch connector.</p>  <p>Spare parts: 7728656 PCB protection</p>	<p>All 08.04.2019</p>
<p>- Starting difficulties: ignition or flame detection failure: E07.14 (Burner 1) E07.29 (Burner 2)</p> <p>- Flame loss: H01.03 E07.20 (Burner 1) E07.35 (Burner 2)</p>	<p>Fuel oil connection at the inlet of the deaerator filter not in accordance with the regulations (the use of Teflon or conical connections is prohibited).</p> <p>Air inlets on oil supply pipework.</p>	<p>In order to enable the installer to connect the oil filter deaerator to the tank in accordance with the rules of good practice, a connection kit is delivered in the MT11 package (deaerator filter). This kit contains an adapter with an O-ring seal on the filter side and an olive on the oil supply pipe side, for 3 different copper pipe diameters (O.D./I.D. 6/4 mm, 8/6 mm and 10/8 mm).</p> <p>Spare parts: this connection kit is available in the Spare Part Centre: 7753997 Connection kit for Flocotop</p> 	<p>All 30.07.2020</p>
<p>- Starting difficulties: ignition or flame detection failure: E07.14 (Burner 1) E07.29 (Burner 2)</p> <p>- Flame loss: H01.03 E07.20 (Burner 1) E07.35 (Burner 2)</p> <p>- Grazing (pulsations) during combustion.</p>	<p>Early wear of the combustion chamber door insulation, which can block the 2nd smoke passage in the upper part of the exchanger.</p>	<p>Improvement of the fastening and the material of the insulation of the combustion chamber door. A new insulation (item 5) and a new combustion chamber door assembly (item 3) with improved insulation and closure, are fitted in factory.</p>  <p>Spare parts: Reference 3 : 7731695 Complete burner support Reference 5 : 7731697 Burner support insulation.</p>	<p>Mainly OSCR 60 /120 15.06.2020 (Insulation from: 17.06.2019)</p> <p>This change is introduced gradually on all models.</p>

Symptoms / Error-Codes (Please also refer to the list of error codes in the manual)	Other possible causes (in addition to the causes listed in the manual)	Evolutions / Description	Appliances concerned / Application dates
- Burner short-cycles , non-optimised modulation	The P/I parameters of the CU-OH-02 PCB are not optimized.	Evolution and optimisation of the CU-OH-02 PCB, new soft version 1.03 : optimised heating mode modulation parameters, to make operating cycles longer and reduce the number of starts.  <p>CU-OH-02 Art.N°: 7638578 HW:04.04 Rev: 08 SW:01.03 SERIAL: 172600221</p>	All 09.09.2019
- Activities not saved after an ON/OFF, - No reporting of burner errors from EA to EF.	Old version of the CU-OH-02 PCB.	 <p>CU-OH-02 Art.N°: 7638578 HW:04.04 Rev: 08 SW:01.03 SERIAL: 172600221</p> <p>Spare parts: 7677421 CU-OH-02 PCB</p>	
- The boiler remains on standby in spite of the heating demand.	If the heating demand disappears during a flame loss followed by a restart of the burner, the control no longer reacts to a new heating demand. Solution: Switch the power ON/OFF.	Software-Version 1.04 of CU-OH-02 PCB solves this problem.  <p>CU-OH-02 Art.N°: 7638578 HW:04.04 Rev: 09 SW:01.04 SERIAL: 172600221</p> <p>Spare parts: 7677421 CU-OH-02 PCB</p>	All 31.08.2020
- The fault history contains many occurrences of faults OTH ASK H02.53 , H02.54...	Old SCB-10C PCB version.	New Software version 1.03 of SCB-10D PCB.  <p>SCB-10_D Art. N°: 7724481 HW: 01.01 SW: 01.03 SERIAL: 2002 00080</p> <p>Spare parts: 7724481 PCB SCB-10D with software-Version 1.03.</p>	All 01.04.2019

Check the burner serial number:

Coding of the burner **serial number** (From June 1st 2017) :



BURNER OE F15E2-5.60 BDR THERMEA GROUP	
	N°BDR 7731144-03
	N°Art 3770044
	min. 38 kW max. 60 kW min. 3.2 kg/h max. 5.1 kg/h
	230V 1N~ 300W 50Hz  6A
Nr - Serie 19_05_17 123456789012	  IP21

1

2

Burner nameplate:

1 = 6 first digits = **Manufacturing date:**

19_05_17 = 19 May 2017 (Example)

2 = 12 digits : **Counter** (reset to 0 on January 1st of the year).