



Technical Information

## GMR 6160 Condens Wall-hung gas condensing boilers Cascade connection

EN

JS

N° ITOE0242-en

28/05/2021

### 1. Purpose : points to check

Observe the following points for the cascade connection of **GMR 6160** boilers.

**Remark:** a boiler cascade includes :

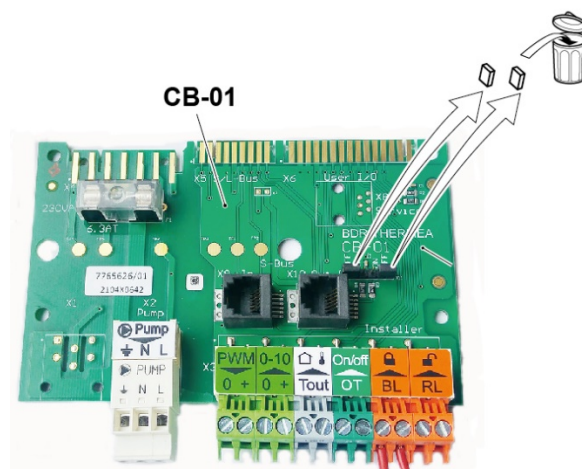
- A **master boiler: GMR 6160** with **OETroCom-3** control panel,
- One or more **GMR 6160 follower boiler(s)** with **OETroCom-3** or **OETroCom-2** control panel.

### 2. Check the software versions of the circuit boards

Check the following points:

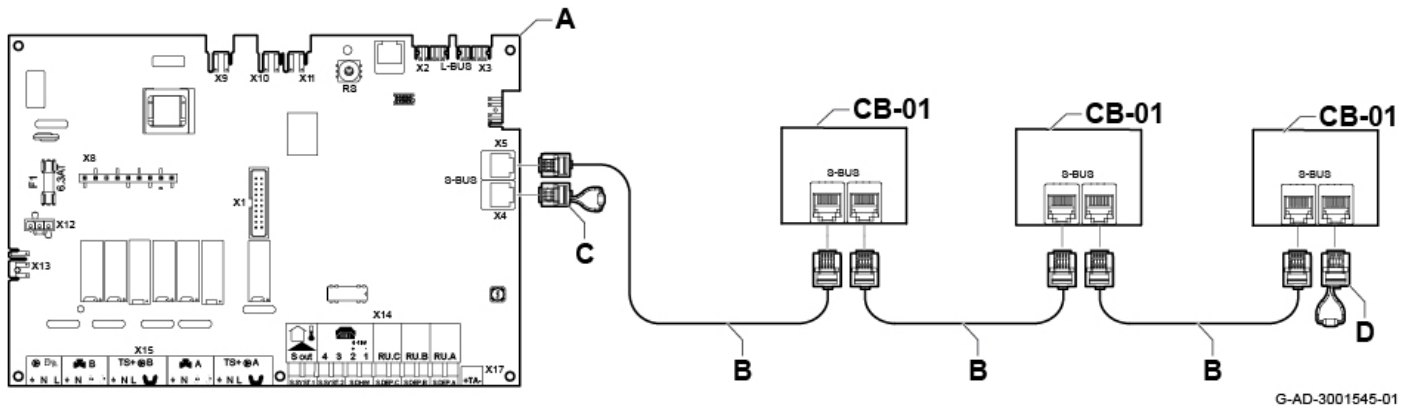
- Circuit boards **SCB-10** (OETroCom-3) must be in version **1.04** or higher.
- All **SCB-10** circuit boards must be at the **same version**.
- Burner management circuit boards **CU-GH06** must be in version **2.1** or higher.
- All **CU-GH06** circuit boards must be at the **same version**.

### 3. Remove the 2 jumpers from the CB-01 circuit boards



1. Switch off the power supply,
2. Open the control panel to get access the circuit boards,
3. Remove the **2 jumpers** from each of the **CB-01** circuit boards in the cascade.

## 4. Connect the BUS cables



G-AD-3001545-01

1. Connect the BUS cables **B** between the connector **X5** of the master boiler **A** and the connectors **X9 / X10** of the **CB-01** boards of the follower boilers,
2. Fit the **terminating connector C** to the connector **X4** of the master boiler **A**,
3. Fit the **terminating connector D** to the connector **X10** of the last of the follower boilers.

## 5. Check the parameters

Set the cascade master boiler parameters (boiler with OEtroCom-3 control panel) as required.

**Access** : Press menu key  → **Installation Setup** → **SCB-10** → **Cascade management B** → **Parameters, counters, signals** → **Parameters** :




Code / Text displayed	Description / setting
<b>AP083</b> Enable master func	Set to enable (1) for the master device. On follower boilers, this parameter must be set to deactivate (0).
<b>NP005</b> Cascade Permutation	By default the master boiler is numbered 1, but this can be changed with this parameter.
<b>NP006</b> Cascade Type	Select the cascade type: traditional or parallel. Management of the cascade of boilers by successive addition or in parallel (simultaneous operation) 0 = Traditional (factory set) ( <b>Successive addition</b> of additional boilers) 1 = Parallel: All boilers start up <b>at the same time</b> .
<b>NP007</b> CascTOutsideHeatParl	Outdoor temperature that starts all cascaded appliances at the same time. Factory setting: 10 °C.
<b>NP008</b> CascTPostRunGenePump	Minimum overrun time of the appliance pump. Factory setting: 4 minutes.
<b>NP009</b> CascInterStageTime	Waiting time before starting or stopping cascaded devices. Factory setting: 4 minutes. Setting: 1 min - 60 min
<b>NP011</b> CascadeTypeAlgo	Type of cascade algorithm: 0: temperature dependent (factory) 1: power-dependent
<b>NP012</b> CascPowerRiseTime	Time available to reach the desired temperature. Factory setting: 1 (value multiplied by 10).
<b>NP013</b> CascForceStop Pprim	Activation (1) or deactivation (2) of the cascade's primary pump.
<b>AP111</b> Can line length	Cable length for the S-BUS. Select the value that is equal to or larger than the actual cable length.

## 6. Check the software versions

To check the software version of the boards:

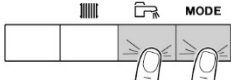




a) Go to the **Information** menu on the control panel

- **On OEtroCom-3 control panel:**

- Access the menus by pressing the key 
- Select **Information** menu with the rotary button 
- Select **CU-GH06** board menu
- Select and validate parameter **Software Version** to view the CU-GH06 version.
- To go back press key 

- Select and validate **SCB-10** board menu with the rotary button 
- Select and validate parameter **Software Version** to view the SCB-10 board version.

- **On OEtroCom-2 control panel :**

- Access the menus by pressing simultaneously the two keys on the right, 
- Select the Information Menu  and access the menu with key 
- Select the desired PCB using the keys + / -
- Confirm the selection with ,
- Scroll through the parameters using the + key: the software version appears at the end of the list.
- Return to the main menu by pressing the  key.

b) Or check the **label** on the electronic board

- **CU-GH06 board:**

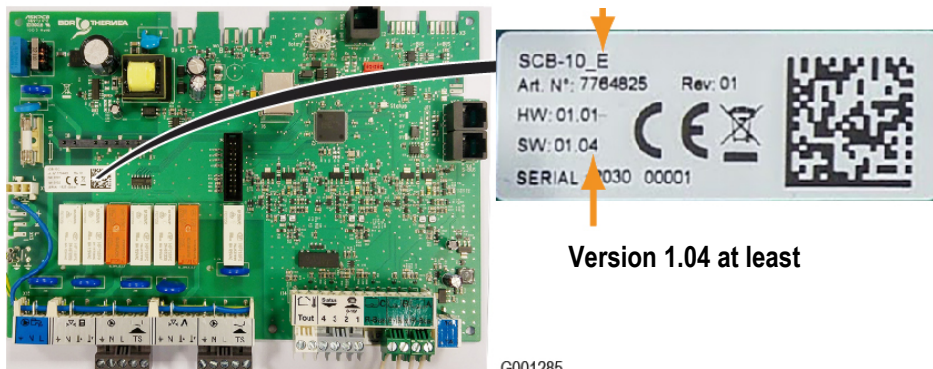
Version 2.1 at least



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- **SCB-10 board (OEtroCom-3) :**

SCB-10\_E

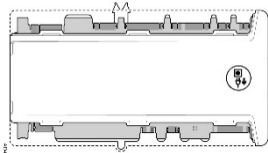
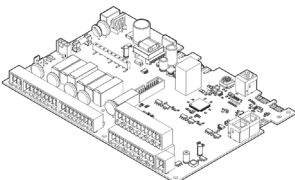



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## 7. Spare parts

Reminder : in a cascade :

- All **SCB-10** boards must be at the **same version** (at least **1.04** or higher)
- and
- All **CU-GH06** boards must be at the **same version** (at least **2.1** or higher).

Appliance concerned	Description	Reference in spare parts	
- GMR 6160 OEtroCom-3 or - GMR 6160 OEtroCom-2		7718238	CU-GH06 version 2.1
- GMR 6160 OEtroCom-3		7774497	SCB-10_E version 1.04
- GMR 6160 OEtroCom-3		7718239	Set of boards SCB-10 SW1.04 + CU-GH06 SW2.1.