

Global Corner M

G20/G25



Installation manual (GB/IE)



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1. Introduction

DRU, a manufacturer of gas-fired heating appliances, develops and produces products that comply with the highest quality, performance and safety requirements. This appliance has a CE label, which means that it complies with the essential requirements of the European gas appliance directive. The appliance is supplied with an installation manual and a user manual. As an installer, you must be certified and competent in the field of gas-fired heating. The installation manual will give you the information you need to install the appliance in such a way that it will operate properly and safely.

This manual discusses the installation of the appliance and the regulations that apply to the installation. In addition, you will find the appliance's technical data as well as information on maintenance, possible malfunctions that might occur and what may cause them.

The figures can be found at the back of this booklet, in the appendix.

Please, read and use this installation manual carefully and completely, prior to installing this appliance. If you use the DRU Powervent system®, the DRU Smartvent system® or the DRU Maxvent system®, you must carefully and fully read and use the accompanying installation manual as well, prior to its installation.

The following symbols are used in the manual to indicate important information:

- Work to be performed
- !Tip Suggestions and recommendations

!Caution You will need these instructions to prevent problems that might occur during installation and/or use.

!Caution You need these instructions to prevent fire, personal injury or other serious damages.

After delivery, you should give the manuals to the user.

2. CE declaration

We hereby declare, that the design and construction method of the gas-fired heating appliance issued by Dru complies with the essential requirements of the gas appliance directive.

Product:	gas-fired heating appliance
Type:	Global Corner M
EEC directives:	2009/142/EC
Standards:	NEN-EN-613
	NEN-EN613/A1

Internal precautions at the company will guarantee that appliances produced in series comply with the essential requirements of the EC directives in force and the standards derived from them.

This declaration will lose its validity if adjustments are made to the appliance, without prior written permission by DRU.

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3. SAFETY

3.1 General

- !Caution** - Please observe the generally applicable regulations and precautions/safety instruction in this manual.
 - First check the exact technical version of the appliance to be installed in Appendix 2, Table 2.

3.2 Regulations

Please install the appliance in accordance with the applicable national, local and constructional (installation) regulations.

3.3 Precautions / safety instructions during installation

Carefully observe the following precautions/safety regulations:

- You should only install and maintain the appliance if you are a certified and competent installer in the field of gas-fired heating;
- Do not make any changes to the appliance;
- If you are installing an appliance that must be built in;
 - use non combustible and heat-resistant material for the chimney breast, including the top of the chimney breast, the material inside the chimney breast and the back wall against which the appliance will be placed. For this you can use both sheet material and stone-like materials;
 - take sufficient measures to prevent high temperatures of the wall behind the chimney breast, including the materials and/or objects that are behind the wall;
 - comply with the minimum required internal measurements of the chimney breast;
 - vent the chimney breast by means of ventilation holes with a combined passage as stated further down in the text;
 - use heat-resistant electric connections and make sure that they do not make contact with the appliance;
- If you are installing an appliance with an open combustion: use a suitable flue gas discharge system that is provided with the CE label;
- if you are installing an appliance with a closed combustion: only use the concentric systems supplied by DRU;
- if you are installing a free-standing appliance: place the appliance away from the back wall by the minimum distance stated further down in the text;
- do not cover the appliance and/or do not wrap it in an insulation blanket or any other material;
- make sure that combustible objects and/or materials have a distance from the appliance of at least 500 mm
- only use the accompanying wood/pebble set and place it exactly as described;
- the space surrounding the pilot burner, 2nd thermocouple or ionisation pins must remain free;
- make sure there is no dirt in gas pipes and connections;
- place a gas tap in accordance with applicable regulations;
- prior to putting into operation, check the complete installation for gastightness;
- if your appliance is provided with explosion hatches on its top, you must make sure that they cannot be blocked and check whether they fit well onto the sealing surface, prior to building in the appliance;
- do not ignite the appliance before the gas and discharge connections have been fully installed, first observe the procedure described in chapter 7.3.
- replace broken or torn glass panes.

!Caution In case of broken or torn glass panes, the application may not be used.

3.4 Second thermocouple safety (if applicable, see Appendix 2, Table 2)

It is possible, that the appliance to be installed has 2 thermocouples. Thermocouple 1 is always next to the pilot burner, thermocouple 2 is always elsewhere above the main burner.

If the appliance is provided with a second thermocouple safety on the main burner, you need to know that it will intervene if no proper transfer has taken place from the pilot burner to the main burner or from the main burner itself. The gas supply will be interrupted after 22 seconds. In order to solve a poor or non-existent transfer from the pilot burner to the main burner, please use the malfunction search diagram in Appendix 1.

3.5 Oxypilot safety (if applicable, see Appendix 2, Table 2)

If the appliance is provided with an oxypilot safety, you need to know that it will intervene (the pilot flame and the gas supply to the main burner will be switched off) if insufficient combustion air (oxygen) is supplied.

Once the supply of combustion air is sufficient again, the appliance can be restarted.

The supply of fresh air can be controlled by installing/opening ventilation holes.

4. Removing the packaging

Note the following items when removing the packaging:

- Check the appliance and accessories for damages (during transport).
- If necessary, contact your supplier.
- Never install an appliance that is damaged !
- Remove any screws that are used to fix the appliance to a platform or pallet.

!Caution Heat-resistant glass is a ceramic material. Very small irregularities in the glass pane(s) cannot be avoided, but are within the required quality standards.

!Caution Keep plastic bags away from children.

In Appendix 2, Table 1 you can see which parts you should have after removing the packaging.

- Contact your supplier if you do not have all the parts after you finished removing the packaging.
- Dispose of packaging in accordance with local regulations.

5. Installation

Read this manual carefully to ensure the proper and safe installation of the appliance.

!Caution Install the appliance in the order described in this chapter.

- Please install the appliance in accordance with the applicable national, local and constructional (installation) regulations.
- Observe the regulations/instructions in this manual.

5.1 Type of gas

The data plate indicates for which type of gas, gas pressure and for which country this appliance is intended. The data plate can be found on the appliance or can be attached to a chain to which it should remain attached.

!Caution Check whether the appliance is suitable for the type of gas and the gas pressure used at the location.

5.2 Gas connection

Place a gas tap in the gas pipe in accordance with the applicable regulations.

!Caution Make sure there is no dirt in gas pipes and connections;

The following requirements apply to the gas connection:

- use a gas pipe with the correct dimensions, so that no pressure loss can occur;
- the gas tap must be approved (in the EU this will be the CE mark);
- you should always be able to reach the gas tap.

5.3 Placing the appliance

- !Caution**
- Always place the appliance with a minimum distance of 500 mm from combustible objects or materials;
 - Place the discharge pipes in such a way that situations with risk of fire can never occur;
 - Always place the appliance in front of a wall of non combustible and heat-resistant material;
 - Always maintain a minimum distance between appliance and back wall, if indicated in the dimensional drawing (Appendix 3, fig. 2);
 - Take sufficient measures to prevent high temperatures of a possible wall behind the chimney breast, including the materials and/or objects that are behind the wall;
 - Do not cover the appliance and/or do not wrap it in an insulation blanket or any other material;
 - Make sure that the appliance to be installed has a stable position. If applicable, this could also be done by fixing the extension legs with self-tapping screws.

!Caution When installing an appliance that has to be built in, take the following into account:

- The minimum construction dimensions according to Appendix 3, fig. 1 and 2;
 - The construction height of the appliance, which you can determine yourself.
- Provide a gas connection at the location. For details, see section 5.2.
 - Make a passage for the flue gas discharge system or the concentric system with the following diameters; for details, see section 5.7 or 5.8:
 - the pipe diameter +10 mm for a passage through non combustible material;
 - the pipe diameter +100 mm for a passage through combustible material.

!Caution Starting at section 5.9, you will find additional instructions that are specifically needed for the installation of your appliance.

5.4 Placing a built in appliance with control hatch (if applicable)

The gas control is mounted under the appliance, at the burner mounting plate. It must be taken out and placed in the control hatch at a later time. For placing the gas control in the control hatch, see section 5.6.

Follow the procedure described below:

- Disconnect the pipes from the gas control (flexible gas pipe, aluminium pilot burner pipe and thermocouple 1);

!Caution The red wire of thermocouple 2, if applicable, must remain connected to the gas control.

- Disconnect the gas control from the burner mounting plate by unscrewing the self-tapping screw.
- Carefully unwind the red and black wire of thermocouple 2, if applicable.
- Carefully lay the gas control together with the wires of thermocouple 2, the ignition cable, the flexible gas hose, the aluminium pilot burner pipe and the type plate plus chain in the direction of the control hatch.

!Caution - Make sure there is no dirt in gas pipes and connections;
- Avoid kinks in the pipes.

!Caution - Make sure the ignition cable cannot come into contact with other wires;
- The data plate should remain attached to the chain.

- Set the height of the appliance using the adjustable feet and
- Make the appliance level at the same time.

!Tip The construction frame for most 2 or 3 sided appliances can be adjusted. This will allow you to connect the construction frame to the chimney breast correctly. For 2 or 3 sided appliances that cannot be adjusted, we would like to refer you to chapter 5.9 'Additional instructions'.

!Caution do not ignite the appliance before the gas and discharge connections have been fully installed, first observe the procedure described in chapter 7.3.

5.5 Placing the chimney breast (if applicable)

In order to provide proper heat discharge, there should be sufficient space around the appliance. The chimney breast should be ventilated sufficiently by means of ventilation holes (incoming and outgoing).

!Caution - Use non combustible and heat-resistant material for the chimney breast, including the top of the chimney breast, the material inside the chimney breast and the back wall of the chimney breast;
- Make sure that the appliance is not carrying the weight of the chimney breast when using stone-like materials;
- The passage of the ventilation holes (outgoing), which are placed as high as possible, is stated in Appendix 2, Table 2.

!Caution When placing the chimney breast, you should take the following into account (see Appendix 3, fig. 2):

- the location of the control hatch: this must be placed as low as possible;
- the dimensions of the control hatch; see Placing the control hatch section 5.6;
- the Dru control hatch is not supplied with all appliances. Nevertheless, we recommend only using a Dru control hatch, which can be supplied separately, if necessary. If you decide not to take this option, you will have to make a 100 cm² ventilation hole that is placed as low as possible, for the benefit of the incoming ventilation.
- the location of the ventilation holes (V) (outgoing);
- maintain a minimum 30 cm distance between the top of the ventilation hole (outgoing) and the ceiling of the house.
- the measurements of the glass pane, so that it can be placed/removed after placing the chimney breast;
- the protection of the gas control and the pipes against cement and plaster.

- !Tip** You should preferably apply the ventilation holes (outgoing) on both sides of the chimney breast. You can use DRU ventilation elements.
- Prior to completely closing the chimney breast, check whether the discharge / concentric system is placed correctly.
 - whether the channels, fixing brackets and possible clip bindings, which cannot be reached after installation, are fastened by means of self-tapping screws.
- If applicable, do not plaster on or over the edges of the construction frame, because:
- the heat of the appliance could cause cracks;
 - it will no longer be possible to remove/place the glass pane.
- When using stone-like materials and/or a plaster finishing, allow the chimney breast to dry for at least six weeks prior to using the appliance in order to prevent cracks.

5.6 Placing the control hatch (if applicable)

The control hatch is placed as low as possible in the chimney breast.

- !Caution** - The bottom of the control hatch may not be placed higher in the appliance than the burner surface.

A number of components are placed in the control hatch, such as data plate, gas control, receiver belonging to the remote control and, if applicable, the control panel of the DRU Maxvent system® or the components belonging to the DRU Powervent system®.

Place the control hatch as follows; see Appendix 3, fig. 3 for details:

- Make an opening in the chimney breast of 285 x 194 mm (h x w).
- Place the inner frame (1); unscrew bolts (5) for this.
- !Tip**
- When the chimney breast is made of bricks, the inner frame can be built with bricks at the same time
 - When using a different material, you can glue the inner frame or fix it with four flush screws.
- Mount the gas control to the brackets of the inner frame (2).
- Reconnect the pipes to the gas control.

- !Caution**
- Avoid kinks in the pipes;
 - Tighten the flexible gas pipe and the pilot burner pipe until they are gastight.
 - First tighten the thermocouple by hand and;
 - Then tighten it a quarter turn using a suitable spanner;
 - The pilot burner pipe must be protected against possible corrosive influences as a result of, for example, humidity, cement that has fallen down, dirt that has fallen down from the chimney, etc. The pilot burner pipe should remain permanently free from the ground and the walls of the room in which the appliance is built in.

- Make sure there is no dirt in gas pipes and connections.
- Connect the gas pipe to the gas tap.
- Bleed the gas pipe.
- Place the receiver in the holder (3); for connecting, see section 6.1.
- Place the data plate in its intended clamp (6).
- Fix the outer frame with door (4) to the inner frame using 2 socket cap screws (5).

- !Tip** You can place the outer frame in such a way, that the door turns to the left or to the right.

5.7 Flue gas discharge system in appliances with open combustion

For connection to an existing chimney without a discharge pipe or flexible SS discharge – only allowed in Great Britain – the instructions provided in the separately supplied booklet 'Fitting into a conventional class 1 chimney' apply. In addition to the installation instructions, this booklet also contains supplementary tests.

5.7.1 General

The appliance's type of discharge system is stated in Appendix 2, Table 2.

The appliance must be connected to an existing or newly built chimney, in accordance with the applicable national, local and constructional (installation) regulations.

5.7.2 Connection of flue gas discharge system (if a class 1 chimney is not applicable)

At least a 3 metre discharge pipe or a flexible SS discharge should be connected to the appliance. Bends in the flue gas discharge system are not allowed.

- !Caution** - Maintain a distance of at least 50 mm between the outside of the concentric system and the walls and/or ceiling. If the system is built in (for instance) a cove, it should be made with non combustible material all around it;
- Use heat-resistant insulation material when passing through combustible material.
 - Use a flue gas discharge system with the correct diameter, and which is provided with the CE mark.

!Caution Some heat-resistant insulation materials contain volatile components that will spread an unpleasant smell during a longer period; these are not suitable.

Place the flue gas discharge system as follows:

- Connect the pipe pieces or flexible SS discharge.
- You should only install the appliance in a well ventilated room which complies with the applicable national, local and constructional (installation) regulations, in order to guarantee sufficient air supply.

!Tip When the appliance is installed in a house with a mechanical air extraction system and/or an open kitchen with cooker hood, you will need a permanent ventilation hole near the appliance; for this application, please observe the gas installation regulations and the local instructions.

5.8 Flue gas discharge / combustion air supply system in appliances with closed combustion

5.8.1 General

The appliance's type of discharge system is stated in Appendix 2, Table 2.

The appliance will be connected to a combined flue gas discharge / combustion air supply system, hereafter to be referred to as the concentric system.

The passage to the outside can be made with both a wall terminal and roof terminal. If necessary, you can also use an existing chimney (see section 5.8.4).

- !Caution** - Only use the concentric system supplied by DRU. This system has been tested in combination with the appliance. DRU cannot guarantee a proper and safe operation of other systems and does not accept any responsibility or liability for this;
- For connecting to an existing chimney you should only use the chimney kit supplied by DRU.

The concentric system is constructed from (the flue spigot of) the appliance.

If, due to constructional circumstances, the concentric system is placed first, it is possible to connect the appliance by means of a telescopic pipe piece.

5.8.2 Construction of the concentric system

Depending on the construction of the concentric system, the appliance will have to be further adjusted with possibly a restrictor slide or air inlet guide.

See Tables 4 and 6 for determining the correct adjustment and section 5.9, Adjustment of the appliance, for the method of working.

The concentric system with wall or roof terminal has to comply with the following conditions:

- First, a concentric pipe of minimum length should be connected vertically to the appliance, according to Appendix 2, Table 4 or 5.
- Determine the permissibility of the required discharge.

When using a **wall terminal**, the following applies:

- The total vertical pipe length, when using a wall terminal, may have a maximum length that you can find in Appendix 2, Table 4. In that case, a 90° bend will be connected after the vertical part;
- The total horizontal pipe length, when using a wall terminal, may have a maximum length that you can find in Appendix 2, Table 4 (without wall terminal; see Appendix 3, fig. 4).

When using a **roof terminal**, the following applies:

- The construction of the chosen system, when using a roof terminal, must be permissible according to Appendix 2, Table 5. (See the method of working described below)

The working method below indicates how the permissibility is determined of a concentric system when using a roof terminal.

- 1) Count the number of 45° and 90° bends required
- 2) Count the total number of whole metres of horizontal pipe length;
- 3) Count the total number of metres of vertical and/or sloping pipe length (roof terminal excluded).
- 4) In the first 2 columns of Table 5, look for the number of bends required and the total horizontal pipe length.
- 5) In the top row of Table 5, look for the required total vertical and/or sloping pipe length.
- 6) If you end up in a box with a letter, the concentric system chosen by you is permissible.
- 7) Use Table 6 to determine how the appliance should be adjusted

5.8.3 Placing the concentric system

- !Caution** - Maintain a distance of at least 50 mm between the outside of the concentric system and the walls and /or ceiling. If the system is built in (for instance) a cove, it should be made with non combustible material all around it;
- Use heat-resistant insulation material when passing through combustible material;
 - The rosette of the wall terminal is too small to seal the opening when passing through combustible material. That is why you should first apply a sufficiently large heat-resistant intermediate sheet to the wall. Then, the rosette is mounted on the intermediate sheet.

The roof terminal can end in a sloping and a flat roof.

The roof terminal can be supplied with a glue plate for a flat roof or with a universally adaptable tile for a sloping roof.

- !Caution** Some heat-resistant insulation materials contain volatile components that will spread an unpleasant smell during a longer period; these are not suitable.

Place the concentric system as follows:

- Build the system up from (the flue spigot of) the appliance.
- Connect the concentric pipe pieces and, if necessary, the bend(s).
- On each connection, apply a clip binding with silicon sealing ring.
- Use a self-tapping screw to fix the clip binding to the pipe on locations that cannot be reached after installation.
- Apply sufficient wall brackets, so that the weight of the pipes does not rest on the appliance.
- Attach the wall terminal from the outside by means of four screws.
- Determine the remaining length for the wall or roof terminal and cut it to size, make sure the correct insertion length is maintained.
- Place the wall terminal with the (groove/folded) seam at the top;

- !Caution** - When using the wall terminal, place the terminal with a downward slope of 1 cm / metre towards the outside, in order to prevent rain water from raining in.

5.8.4 Connection to an existing chimney

It is possible to connect the appliance to an existing chimney.

A flexible SS pipe is placed in the chimney with a fitting diameter at the flue gas discharge pipe, for the discharge of flue gas. The surrounding space is used to supply combustion air.

The following requirements apply when connecting to an existing chimney:

- only allowed when used in combination with the special DRU chimney kit. The installation regulation is also supplied;
- the internal dimensions should be at least 150 x 150 mm;
- the vertical length has a maximum of 12 metres;
- the total horizontal pipe length may have a maximum length that you can find in Appendix 2, Table 4;
- the existing chimney has to be clean;
- the existing chimney has to be tight.

For adjusting the appliance, the same conditions/instructions apply as for the concentric system described above.

5.9 Additional instructions

The construction frame of this appliance cannot be adjusted.

- Attach the appliance to the wall by means of wall brackets (B) (see appendix 3, fig. 1).

5.10. Glass panes

After placing the wood set you can place the glass pane as described below.

- !Caution**
- Avoid damaging the glass pane during removal/placement;
 - Use the socket spanner supplied for loosening/tightening the self-tapping screws;
 - Avoid/remove fingerprints on the glass panes, as they will burn into the glass.

5.10.1 Removing the front glass pane

When removing the front glass pane, you should follow the instructions below (see appendix 3, fig. 5 to 8):

- Unscrew the self-tapping screw from the standing decorative strip (A) and remove the decorative strip. Repeat this on the other side;
- Tilt the short side of the lower decorative strip (B) upwards and then slide it towards the side, in the direction of the long side.
- Remove the lower decorative strip;
- !Caution** The lower decorative strip is kept in place by 2 hooks. Keep this in mind when removing the lower decorative strip.
- Unscrew the 3 self-tapping screws of the bottom pane clamp (C) from the frame and remove the bottom pane clamp;
- Unscrew the 2 upper self-tapping screws from the frame and remove the upper pane clamp strip (D);

!Caution At the following action, you must hold the glass window in order to prevent it from falling forwards.

- Unscrew the self-tapping screws for the side pane clamp (F) from the frame and remove the side pane clamp;
- Slide the glass pane towards the side and then tilt it forward.
- Remove the glass pane;

5.10.2 Removing the side glass pane

The side glass panes should be removed in case of torn or broken panes.

- Remove the front glass pane; see section 5.10.1 above.
- Remove the self-tapping screws from the lower and rear clamp strip using the supplied socket spanner.

!Caution At the following action, you must hold the side glass pane in order to prevent it from falling forwards.

- Unscrew the self-tapping screw from the upper pane clamp strip and remove the upper glass strip.
- Slide the glass pane towards the side (you are now located at the side of the appliance).
- Slightly tilt the top of the glass pane towards you and remove the glass pane

5.10.3 Placing the glass pane

Placing the glass pane will take place in reverse order of removing the glass pane, as described above.

- !Caution**
- Avoid/remove fingerprints on the glass pane, as they will burn into the glass;
 - The self-tapping screws should not be over-tightened, since otherwise they could break or strip the thread: tight = tight;
 - Place the glass pane with the logo at the bottom right.

5.11 Setting the appliance

The appliance has to be set in such a way that it works correctly in combination with the used concentric system. For that purpose, a restrictor slide is placed and/or the air inlet guide is removed. The conditions for using a wall terminal and roof terminal can be found in appendix 2, tables 4, 5 and 6.

This appliance is suitable for PowerVent®. For more information, see the PowerVent® installation manual.

5.11.1 Restrictor slide (R)

The restrictor slide (R) is supplied separately. It is mounted as follows (see appendix 3, fig. 9):

- Unscrew the 2 already placed self-tapping screws (U) from the combustion chamber.
In case of the Corner right, these self-tapping screws are located in the top left of the appliance, in case of the Corner left, these self-tapping screws are located in the top right of the appliance.
- Install the restrictor slide (R). It partly covers the hole of the exhaust pipe.
- At the same time, tighten the 2 self-tapping screws (U) by a few turns, but not yet fully tight;

!Caution When mounting, the arrow on the restrictor slide should point away from you (see appendix 3, fig. 9).

- Adjust the position of the restrictor slide (R) using situations B to D in appendix 2, table 6. The letter of the position on the restrictor slide corresponds with the letter of the situation in table 6;
- Make sure that the point of the triangle belonging to the position that you want and the centre of the self-tapping screw are exactly aligned;
- Tighten the 2 self-tapping screws (U).

5.11.2 Air inlet guide (L)

The air inlet guide (L) is located on the left under tray (M) in case of the Corner right. In case of the Corner left, the air inlet guide is located on the right under tray (M).

If you want to remove it, proceed as follows (see appendix 3, fig. 10):

- Remove the plate (M) from the combustion chamber;
- Loosen the 2 self-tapping screws (N) of the air inlet guide (L) and remove the air inlet guide;

!Caution Then, re-tighten the 2 self-tapping screws (N) of the air inlet guide in the combustion chamber;

- Place the plate (M) back in the combustion chamber.

5.12 Placing the wood or pebble set

The appliance is supplied with a wood set or a pebble set.

!Caution Strictly observe the following instructions to prevent unsafe situations:

- only ever use the supplied wood or pebble set;
- place the wood and pebble set exactly as described;
- make sure the pilot burner and the surrounding space remain free (see appendix 3, fig. 11);
- make sure thermocouple 2 and the surrounding space remain free (see appendix 3, fig. 12).
- In case of a wood set, keep the air openings between the burner and the vermiculite tray completely free.

5.12.1 Wood set

The wood set consists of chips (see appendix 3, fig. 13) and a number of logs.

- Identify logs A to D using appendix 3, fig. 14.
- !Tip** Use the burn stains on the logs for identification.
- Place log A behind the (main) burner against the position bracket and distribute the chips (see appendix 3, fig. 15).
- Place log B on the position bracket. Log B makes contact with both the protruding edge of the hood around the pilot flame and log A (see appendix 3, fig. 16);
- Place log C, it rests on log B.
- Place log D on the position bracket. The point of log D makes contact with log A (see appendix 3, fig. 17);

!Caution The logs should not completely cover the burner deck, because

- The main burner will not ignite properly; which could result in unsafe situations;
- Appliance will become filthy more quickly, as a result of soot;
- The flame picture will be affected.

5.12.2 Pebble set

The pebble set consists of white carrera pebbles.

- Remove the 3 position brackets (P) by unscrewing the self-tapping screws (O). It is not necessary to place the self-tapping screws back (see appendix 3, fig. 18);
- Fill the burner and the vermiculite tray with carrera pebbles.
- Spread the carrera pebbles evenly over one layer (see appendix 3, fig. 19).

!Caution Incorrect placement of the pebbles, e.g. on top of each other, could have the following consequences:

- the main burner will not ignite properly, which could result in unsafe situations;
- the flame picture will be affected.

6. Wireless remote control

The appliance is supplied with a wireless remote control.

Controlling the flame height, igniting and switching off take place through a remote control controlling a receiver. Chapter 4, Wireless remote control, in the User Manual describes the operation of the appliance and how you should use the remote control.

!Caution Do not ignite the appliance before the gas and discharge connections have been fully installed, first observe the procedure described in chapter 7.3;

Below, we will describe how the receiver is connected.

6.1 Connecting the receiver

Your appliance is equipped with an electronic ignition through the remote control.

The receiver should be connected to the appliance, before the batteries are installed.

- Connect the receiver according to Appendix 3, fig. 38.
- Bend the antenna (N) out of the clips and place it erect (Appendix 3, fig. 39).

- !Tip**
- The plugs have different sizes that correspond with the connectors.
 - The size of the eye corresponds with the size of the screw;
 - The colours of eye and screw correspond as well.
 - Place the batteries as described below in section 6.1.1.

- !Caution**
- Do not place the ignition cable over and/or along metal, stone or concrete parts: this will weaken the spark. Make sure the cable is hanging freely.
 - Make sure that the wires of thermocouple 2 cannot come into contact with hot parts
 - Keep the ignition cable at least 10 cm away from the antenna, in order to avoid damaging the receiver.
 - Avoid formation of dust on or in the receiver: cover it when performing work.
 - Place the receiver in its intended holder under the appliance or in the control hatch according to Appendix 3, fig. 39.
 - If you want to use an adapter, only an adapter supplied by DRU will guarantee a proper operation of the receiver.

6.1.1 Placing / replacing the receiver's batteries

Follow the procedure below when placing the batteries:

- Pick up the receiver and slide off the cover.
- Place or remove the 4 penlite (AA type) batteries.

- !Caution**
- Observe the "+" and "-" poles of the batteries and the receiver;
 - Use alkaline batteries; rechargeable batteries are not allowed.
 - Batteries are regarded as "small chemical waste" and may therefore not be disposed with the household rubbish.

- Slide back the cover.
- Place back the receiver.

6.2 Setting the communication code

Prior to putting the application into operation, a communication code must be set between the remote control and the receiver. If the receiver or the remote control are replaced, a new code will have to be set.

Follow the procedure described below:

- If necessary, place the batteries in the receiver's battery holder; see section 6.1.1.
- If necessary, place the 9V block battery in the remote controle; see User Manual, section 1.1.
- Hold down the reset button on the receiver, until you hear two consecutive sound signals (see Appendix 3, fig. 40).
- After the second, longer signal, let go of the reset button.
- Press button 'small flame' or button 'large flame' on the remote control within 20 seconds, until you hear an extra long sound signal: this is the confirmation of a correct communication.

 small flame

 large flame

7. Final inspection

In order to check whether the appliance is working properly and safely, you must perform the following inspections before the appliance is used.

7.1 Gastightness

!Caution All connections must be gastight. Check the connections for gastightness. The gas control can be subjected to a maximum pressure of 50 mbar.

7.2 Gas pressure/line-pressure

The burner pressure is set at the factory; see data plate.

!Caution The line-pressure in house installations must be checked, because it can be wrong.

- Check the line-pressure; see Appendix 3, fig. 41 for the measuring nipple on the gas control.
- Contact the gas company if the line-pressure is not correct.

7.3 Ignition pilot and main burner

For igniting the pilot and main burner, see the User Manual, chapter 4, section 4.2, Remote control.

7.3.1 First ignition of the appliance after installation or adjustments

!Caution After installation, or after work has been performed, you should ignite the appliance for the first time without the glass window. If necessary, bleed the gas pipe.

Follow the procedure described below:

- If required, remove the glass window;
- Start the ignition procedure according to chapter 4 in the User Manual;
- If the pilot flame does not ignite:
 - repeat the ignition procedure until the pilot burner ignites;
 - consult the malfunction search diagram (Appendix 1) if this does not happen after a few attempts;
- After igniting the pilot flame, the main burner will ignite during the ignition procedure;
- Check whether the main burner continues to burn;
- If the main burner does not continue to burn:
 - repeat the ignition procedure until the main burner continues to burn
 - consult the malfunction search diagram (Appendix 1) if this does not happen after a few attempts;
- Switch off the appliance;
- Then mount the glass window as described in chapter 5.9;
- Repeat the ignition procedure a few times and perform the checks described in chapter 7.3.2;
- From now on, the pilot flame should ignite smoothly.

!Tip When checking whether the main burner continues to burn, it is possible that it still switches off after 22 seconds. This happens because the appliance is equipped with a second thermocouple and the glass window has not been placed. In this case you may presume that the main burner will continue to burn.

- !Caution**
- During the ignition process, you are not allowed to operate control button B on the gas control manually.
 - Always wait 5 minutes after the pilot flame has gone out, before you re-ignite the appliance.
 - You are not allowed to turn the pilot flame lower by using the settings on the gas control.

7.3.2 Main burner

- !Caution**
- The pilot burner should ignite the main burner within a couple of seconds, and without popping.
 - The main burner(s) must cross the full burner smoothly and without popping and continue to burn.

- Check operation of the main burner from a cold condition (pilot flame off):
- After opening the gas valve, the main burner should burn within a few seconds.

- !Tip**
- When the gas valve is opened, the motor will start to run; this is audible.
 - The flame picture and a good flame transfer can only be properly judged if the glass window is installed. Use the malfunction search diagram (Appendix 1) if the ignition of the main burner does not comply with the abovementioned requirements.

7.4 Flame picture

The flame picture can only really be assessed when the appliance has been burning for several hours. Volatile components from paint, materials, etc., which evaporate in the first hours, will affect the flame picture.

- !Caution** If the chimney breast has been made of stone-like materials or has a plaster finish, the appliance may only be put into operation 6 weeks after the chimney breast has been placed, in order to prevent shrinkage cracks.

- Check whether the flame picture is acceptable.
- Consult the malfunction search diagram (Appendix 1) if the flame picture is not acceptable.

8. Maintenance

The appliance must be inspected once per year by a skilled installer in the field of gas-fired heating, and repaired if necessary.

Check at least whether the appliance is working properly and safely.

- !Caution** - Always close the gas tap during maintenance work;
- Check the gastightness after repair;
- After replacing thermocouple 1 you should first tighten the gland nut by hand and then give it another quarter turn with a suitable spanner;
- You are not allowed to turn the pilot flame lower by using the settings on the gas control.

- If required, clean the following components:
 - the pilot burner (malfunction search diagram, Appendix 1);
 - the space surrounding the pilot burner;
 - the glass pane(s).

- !Caution** - Remove/place the glass pane(s) as described in section 5.10;
- Remove the deposit on the inside of the glass pane(s) with a damp cloth or a non-abrasive detergent such as copper polish or a ceramic hot plate cleaner;
- Avoid/remove fingerprints on the glass pane(s), since otherwise they will burn into the surface;
- Replace a broken and/or cracked glass pane(s) as described in section 5.10.

- !Caution** If necessary, replace the wood or pebble set correctly; for this, see section 5.12.

- Inspect the flue gas discharge system.

- !Caution** You must always perform a final inspection.

- Perform the inspection as described in chapter 7.

8.1 Parts

Parts requiring replacement can be obtained from your supplier.

9. Delivery

You must explain to the user how to operate the appliance. You must give him/her instructions on putting it in operation, the safety measures, the operation of the remote control and annual maintenance (see the User Manual).

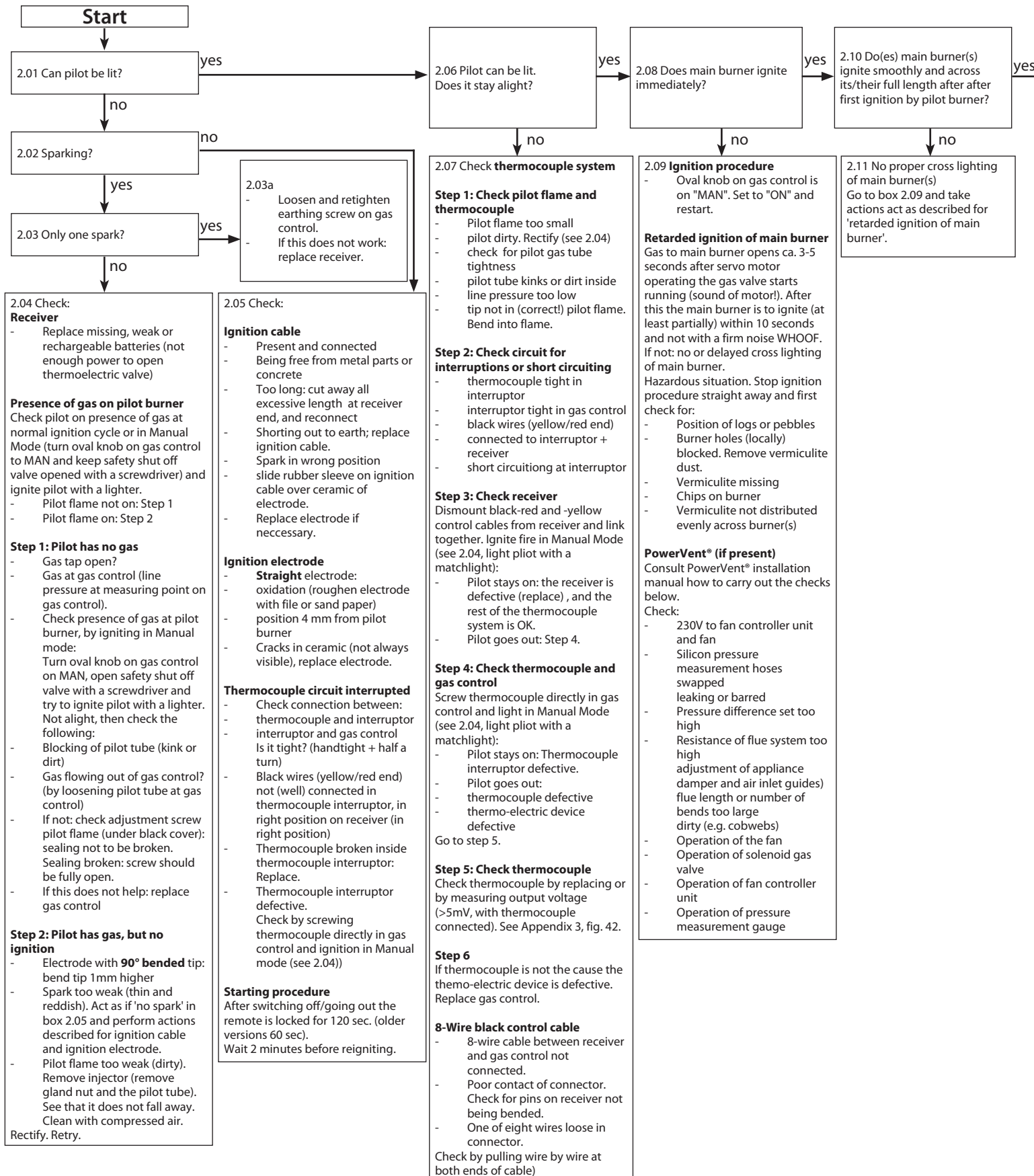
- !Caution** - Tell the user to close the gas tap immediately and contact the installer in case of malfunctions/poor operation. This to prevent unsafe situations;
- Indicate the location of the gas tap;
 - Point out the precautions in the user manual against unintended ignition by other wireless remote controls such as car keys and garage door openers.
- Instruct the user about the appliance and the remote control.
- When the appliance is started for the first time, point out that
- In order to avoid cracks in a chimney breast made of stone-like materials or finished with plaster, it should dry for at least 6 weeks prior to putting the appliance into operation.
 - When the appliance is stoked up for the first time, volatile components evaporate from paint, materials, etc. (First read chapter 3 of the User Manual as well !);
 - When evaporating, the appliance should preferably be set to the highest level;
 - The room should be well ventilated.
- Give the manuals to the user (all manuals should be stored near the appliance).

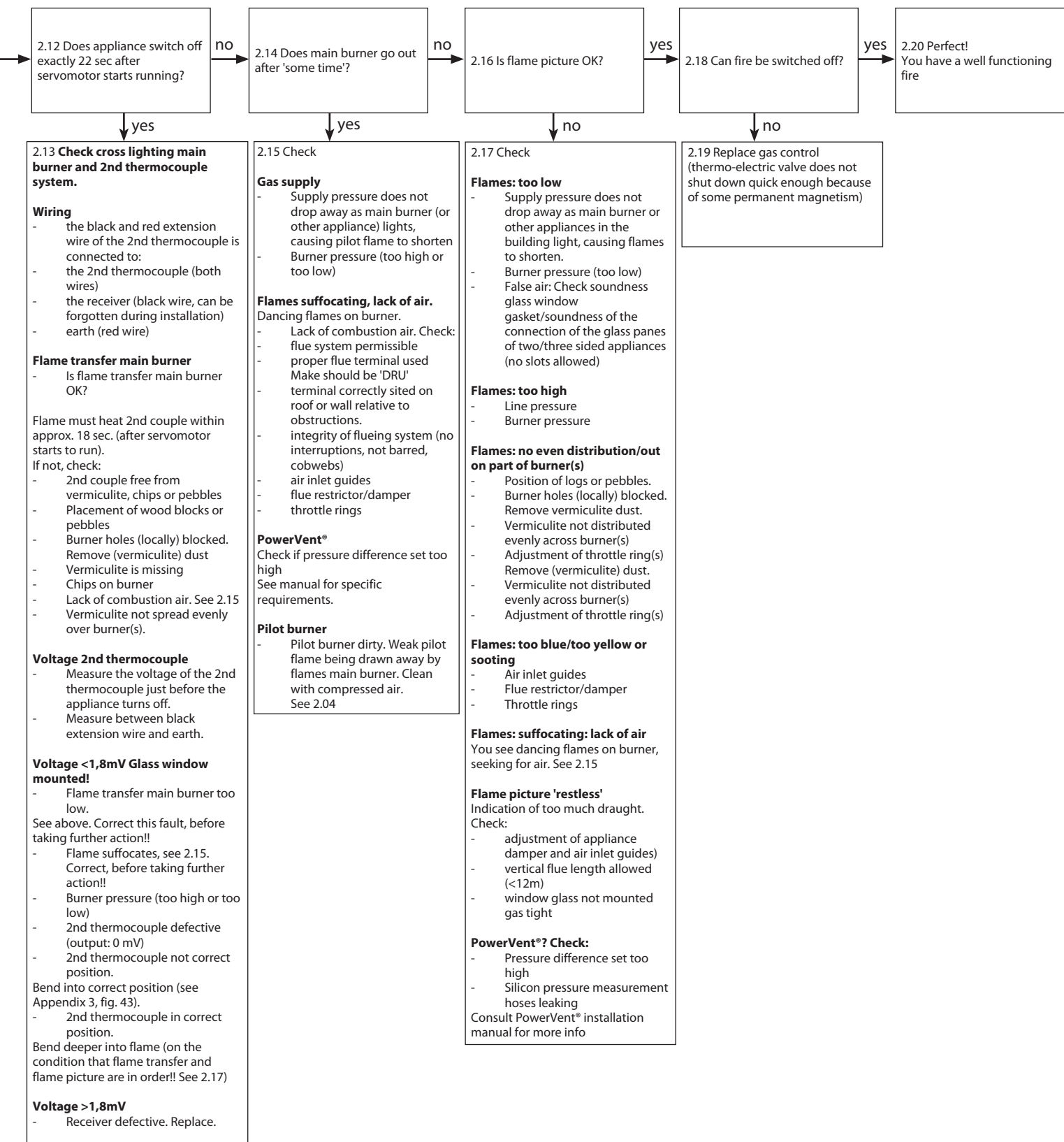
10. Malfunctions

In Appendix 1 you will find an overview of malfunctions that might occur, the possible causes and the remedies.

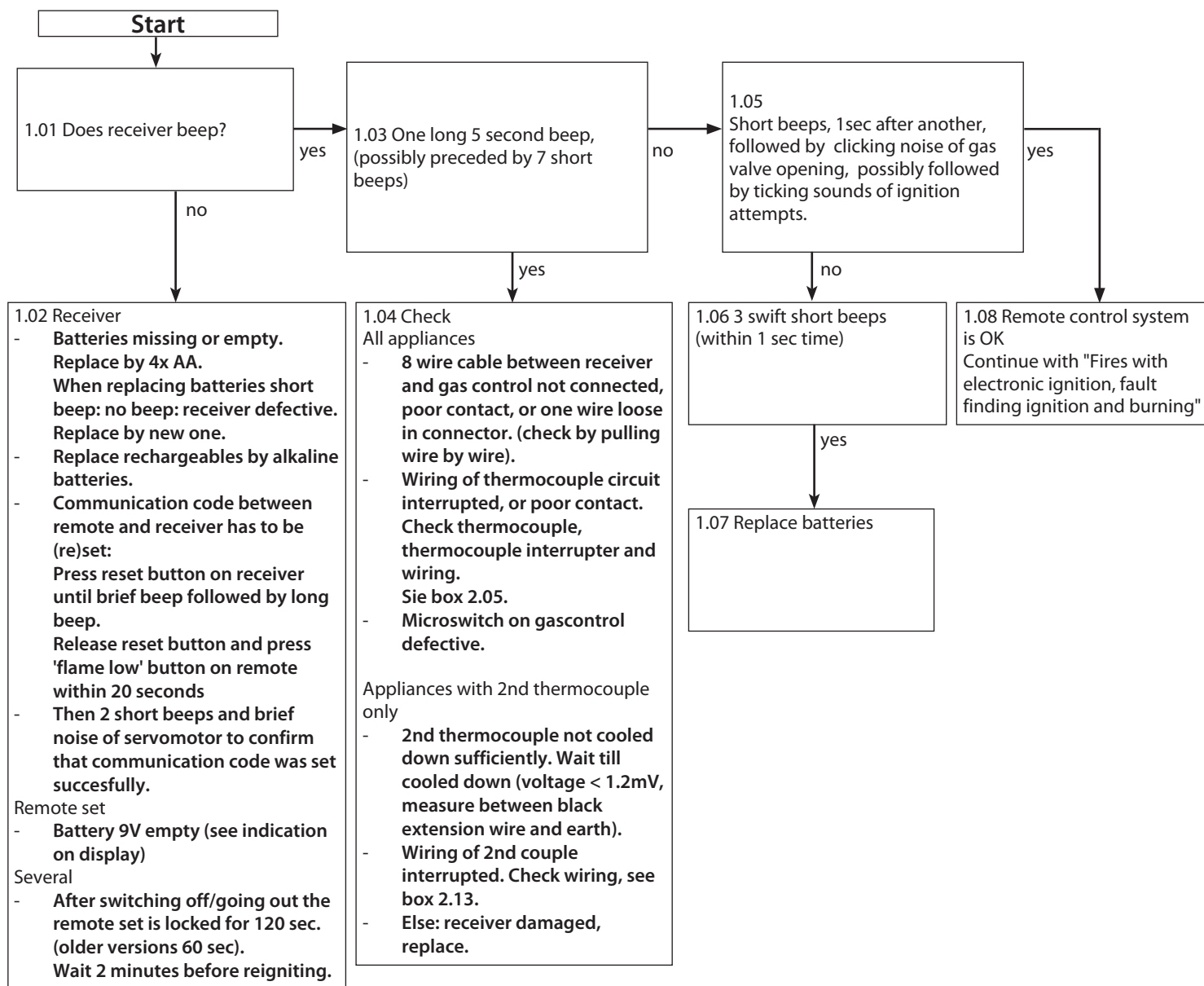
Appendix 1 diagnosis of malfunctions

Fires with electronic ignition, fault finding: Ignition and burning





Malfunction search diagram atmospheric gas-fired heating appliance with electronic ignition: Starting up cycle



Appendix 2

Table 1: Parts included with the delivery

Part	Number
Wood set / pebble set	1x
Control hatch	Available separately
Control hatch manual	Available separately
Installation manual	1x
User manual	1x
Restrictor slide	1x
Spare self-tapping screws for mounting the glass panes	6x
Socket spanner 8 mm	1x
Remote control with receiver	1x
9V block battery	1x
Penlite battery (AA type)	4x

Table 2: Technical data

Product name	Global Corner M			
Type of appliance	Built-in			
Combustion	Closed combustion			
Supply and discharge system	Concentric 150/100			
Flame protection version	Pilot flame with thermocouple			
2nd thermocouple safety	yes			
Atmosphere safety	no			
Explosion hatch	yes			
Ventilation hole chimney breast	200 cm ²			
Type	C11/C31			
Type of gas		G20	G25	
Burner pressure	mbar	15.3	19.0	
Nominal heat input (Hs)	kW	8.3	7.7	
Nominal heat input (Hi)	kW	7.5	6.9	
Nominal output	kW	6.0	5.4	
Consumption	L/h	780	834	
Burner injector	mm	Ø 2.20	Ø 2.20	
Consumption on low output	L/h	329	360	
Low setting injector	mm	Ø 1.5	Ø 1.5	
Pilot burner injector	Code:	51	51	
Efficiency class		2	2	

Table 3: Line-pressure when using G31	
Country	mbar
NL / DK / FI / NO / SE / HU / BA / GR	-
FR / BE / IT / PT / ES / GB / IE	-
D	-

Permissibility and conditions concentric system with wall terminal

Table 4: Conditions for setting the appliance					
G20/G25					
Total number of meters vertical pipe length	Total number of meters horizontal pipe length (excluding wall terminal)	See Figure	Air inlet guide	Restrictor slide	Distance of restriction in mm
0	0 ¹⁾	4	NO	NO	OPEN
1 - 4	0 ²⁾	4	YES	NO	OPEN
1 - 4	1 - 4	4	NO	NO	OPEN

!Caution ¹⁾In this configuration, an unpainted stainless steel wall terminal must be applied

²⁾ factory setting

Permissibility and conditions concentric system with roof terminal

Table 5: Determining permissibility concentric system

G20/G25	Total number of meters horiz. pipe length	Total no. of meters vertical and/or sloping pipe length											
		1 ¹⁾	2	3	4	5	6	7	8	9	10	11	12
no bends	0	B	B	B	C	C	C	C	C	D	D	D	D
2 bends	0	A	A	B	B	B	C	C	C	C	C	D	D
	1		A	A	B	B	B	C	C	C	C	C	
	2			A	A	B	B	B	C	C	C		
	3				A	A	B	B	B	C			
	4					A	A	B	B				
	5												
3 bends	0	A	A	A	B	B	B	C	C	C	C	C	D
	1		A	A	A	B	B	B	C	C	C	C	
	2			A	A	A	B	B	B	C	C		
	3				A	A	A	B	B	B			
	4					A	A	A	B				
	5												
4 bends	0	A	A	A	A	B	B	B	C	C	C	C	C
	1		A	A	A	A	B	B	B	C	C	C	
	2			A	A	A	A	B	B	B	C		
	3				A	A	A	A	B	B			
	4					A	A	A	A				
	5												
5 bends	-												

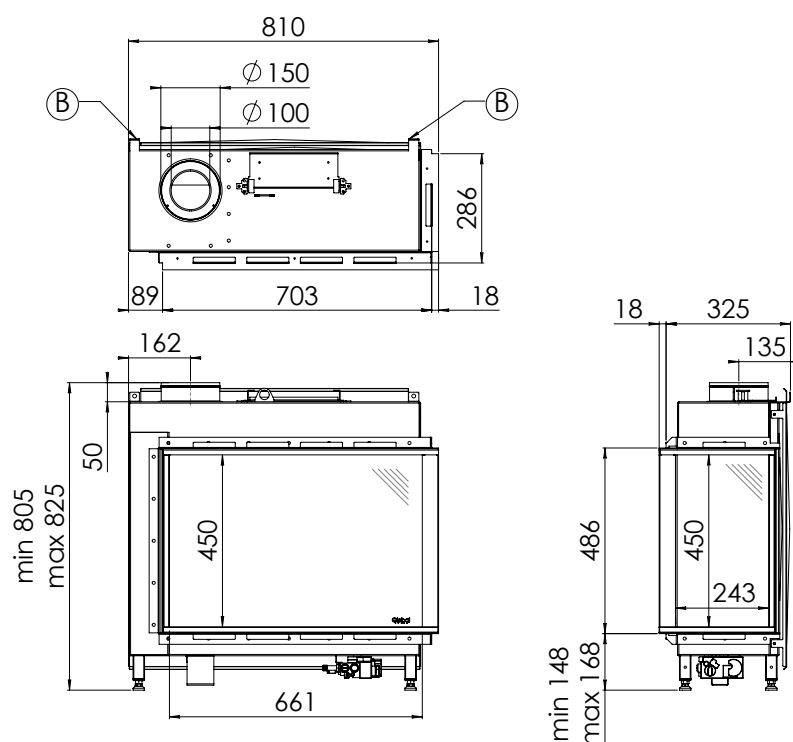
■ = Situation is not permissible

¹⁾ minimum length

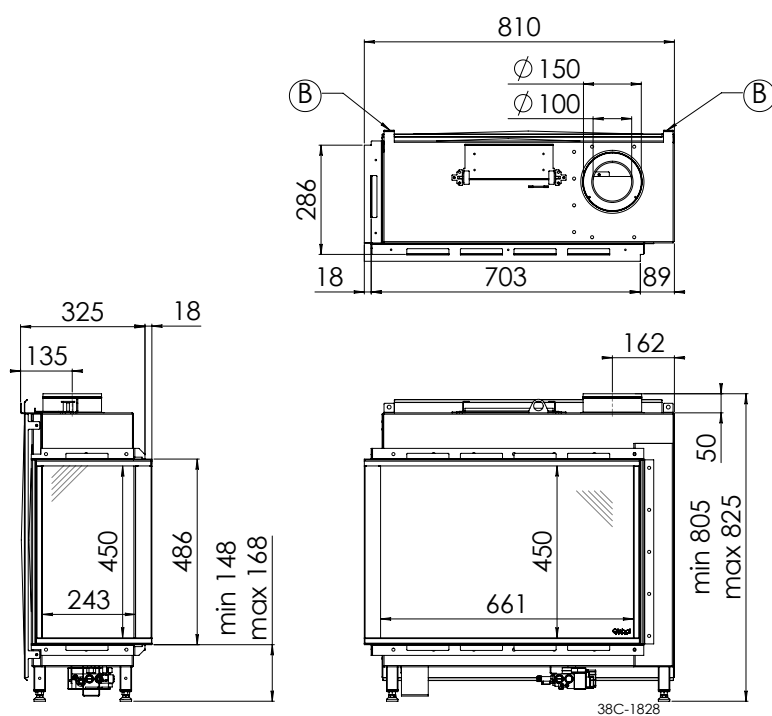
Table 6: Conditions for the adjustment of the appliance with a roof terminal

G20/G25			
Situation	Air inlet guide	Restrictor slide	Distance restrictor. in mm
A	NO	NO	OPEN
B	YES	YES	36
C	YES	YES	27
D	YES	YES	22

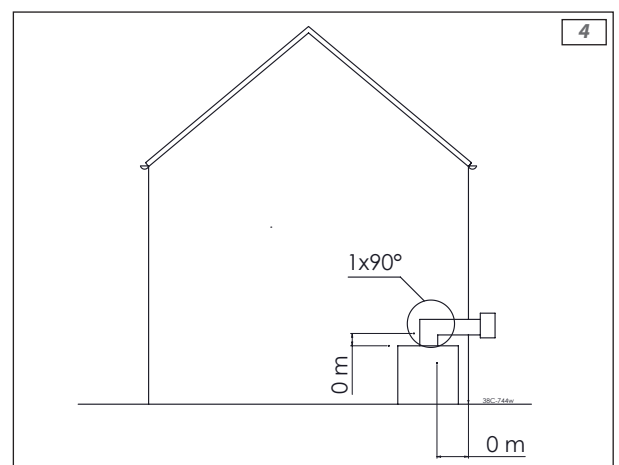
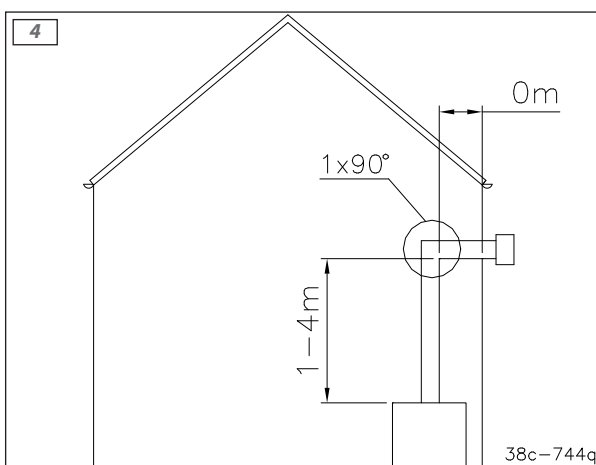
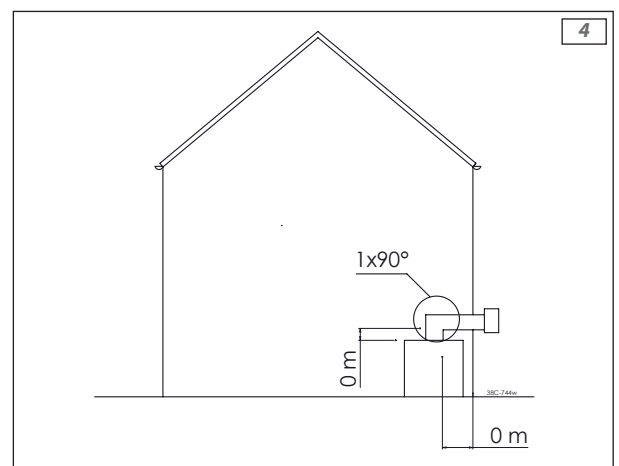
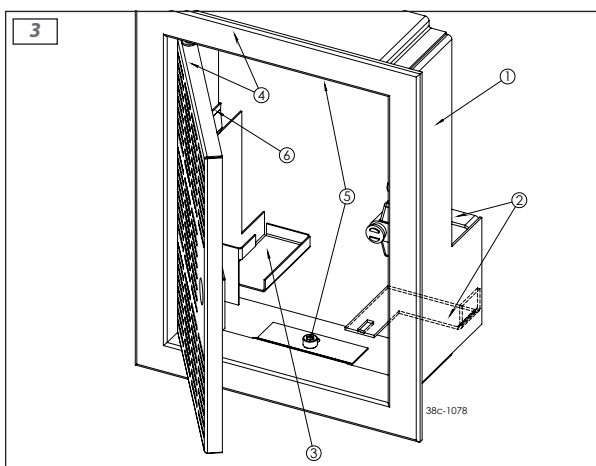
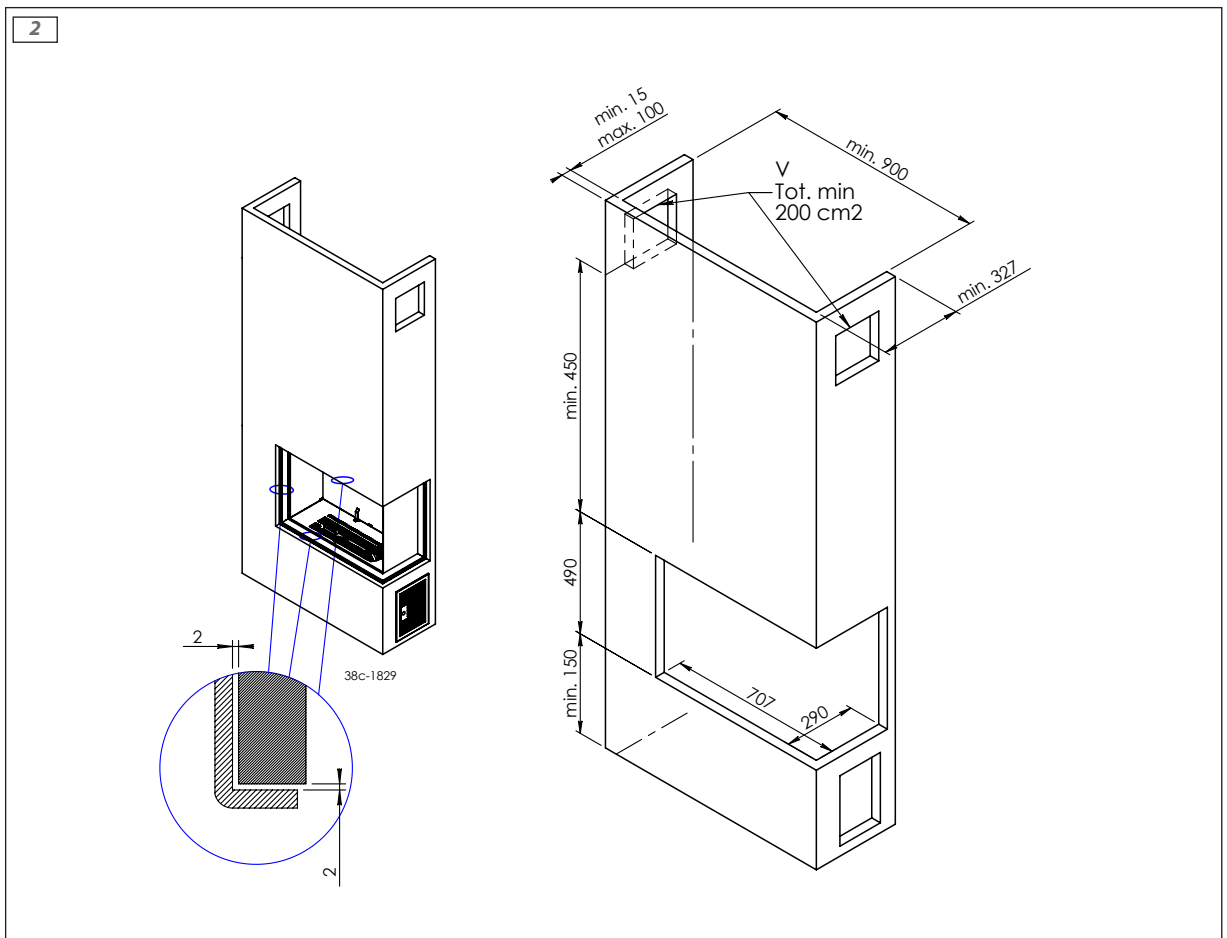
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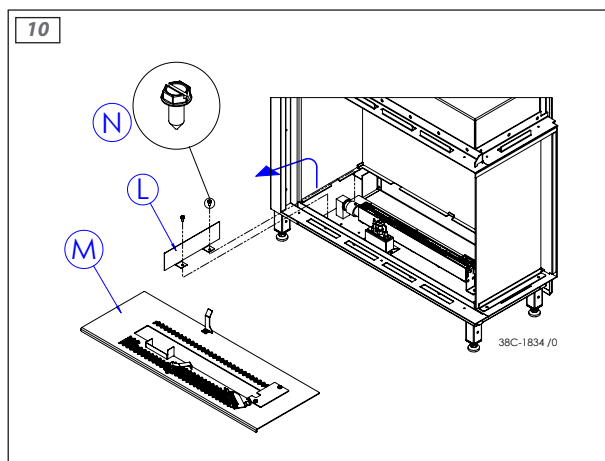
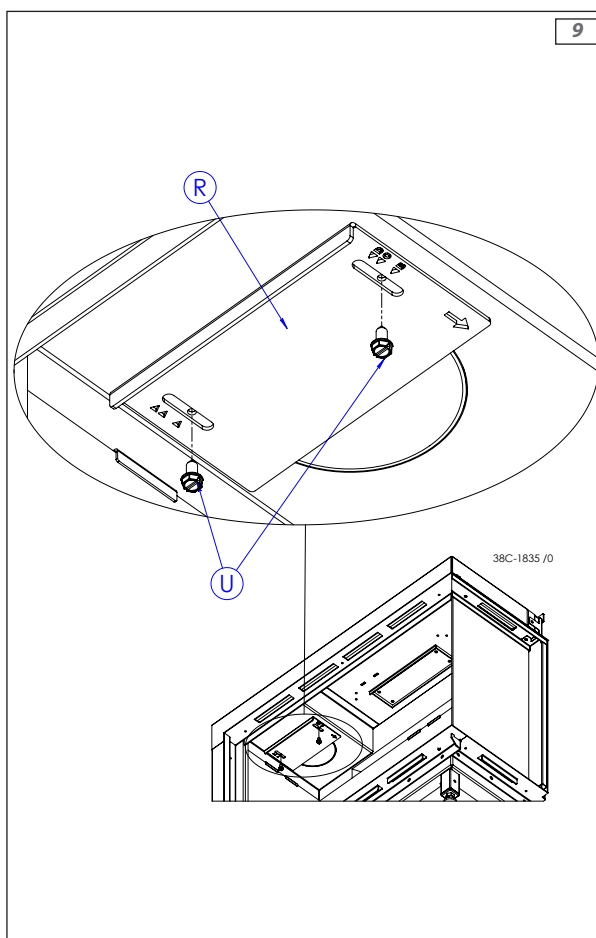
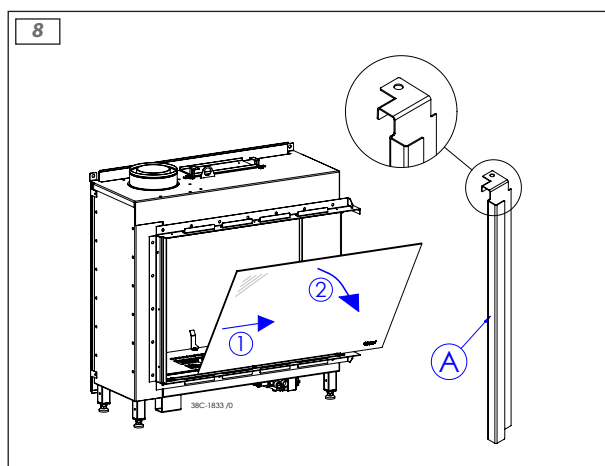
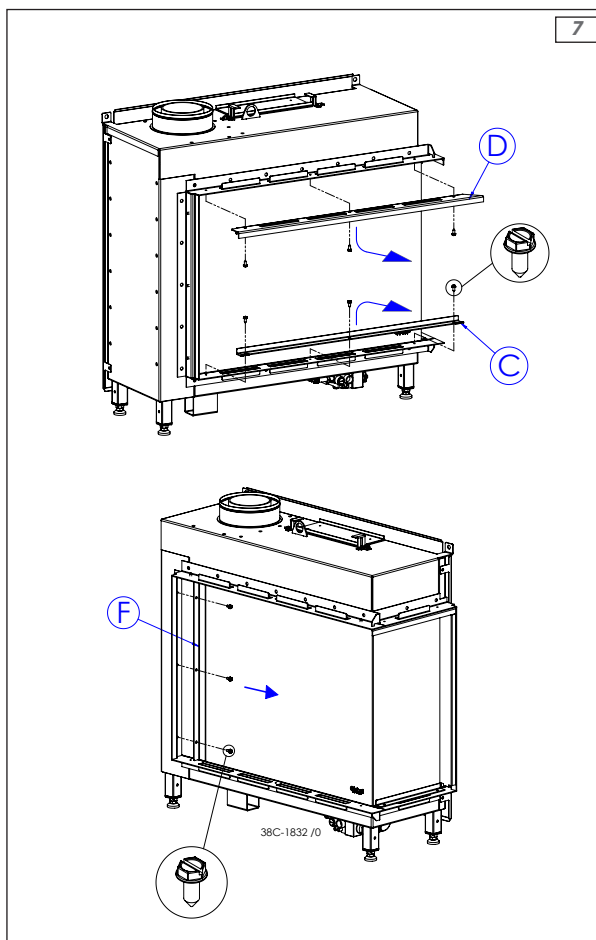
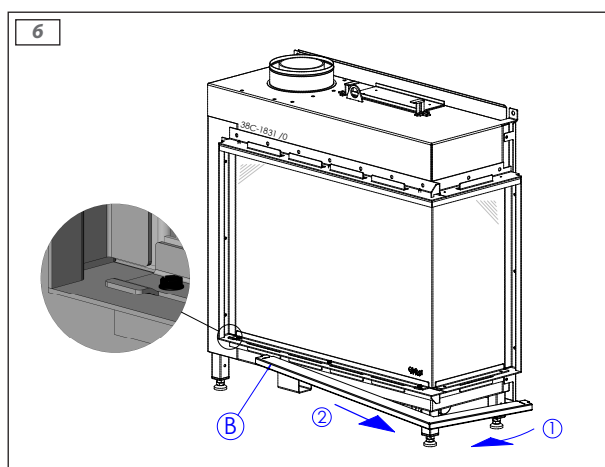
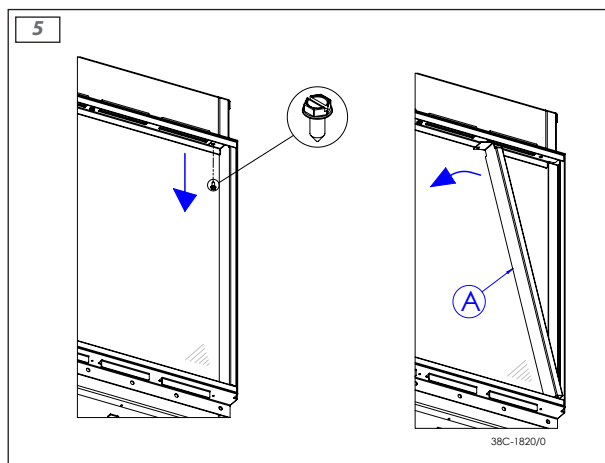


Global Corner R

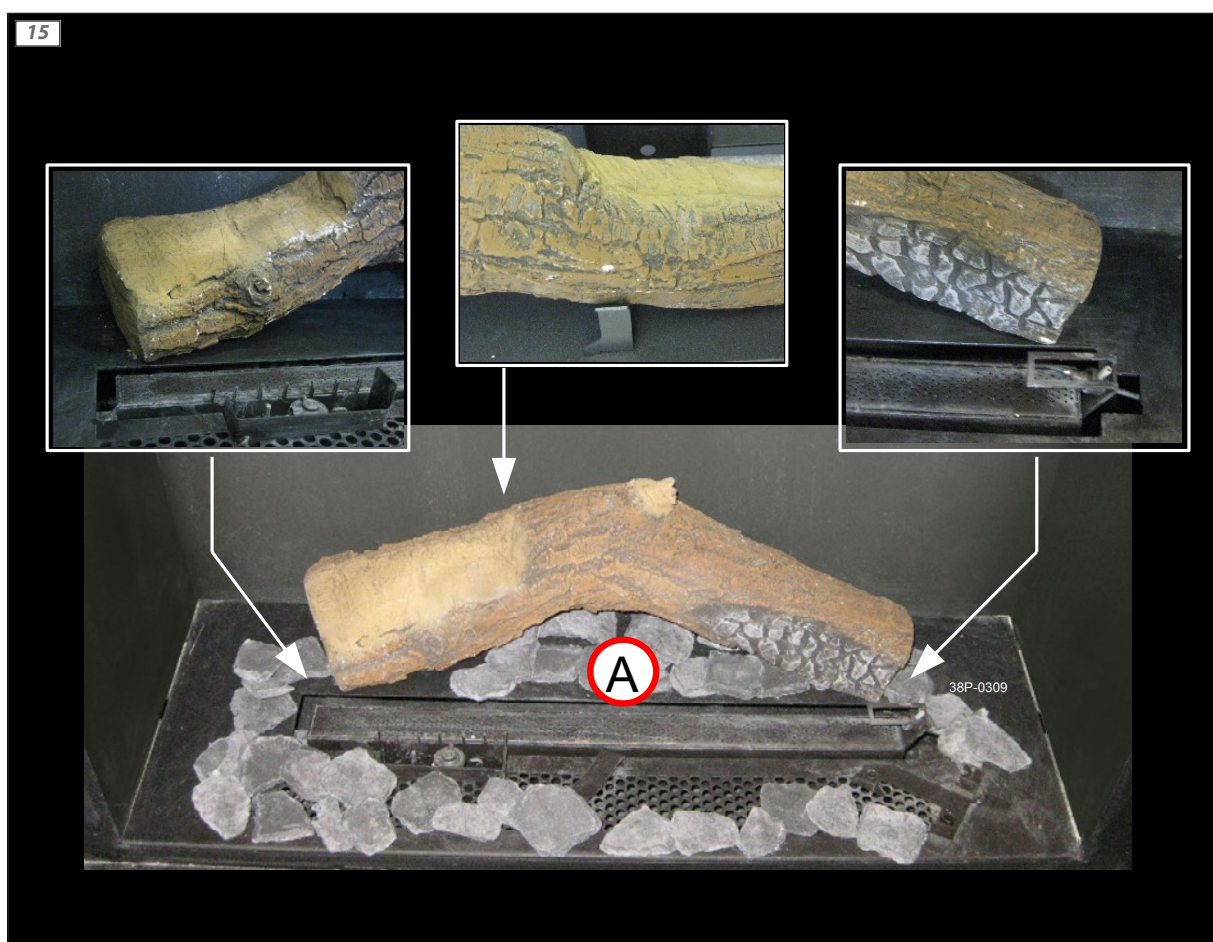


Global Corner L





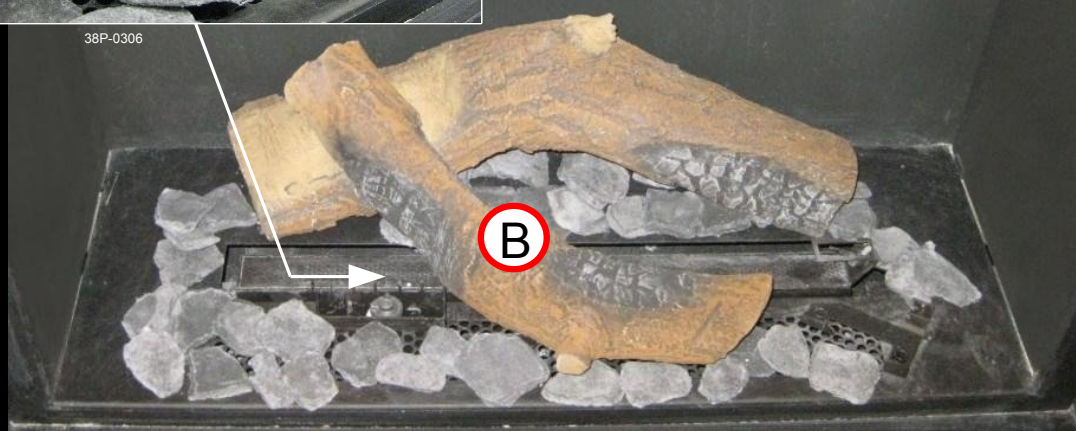




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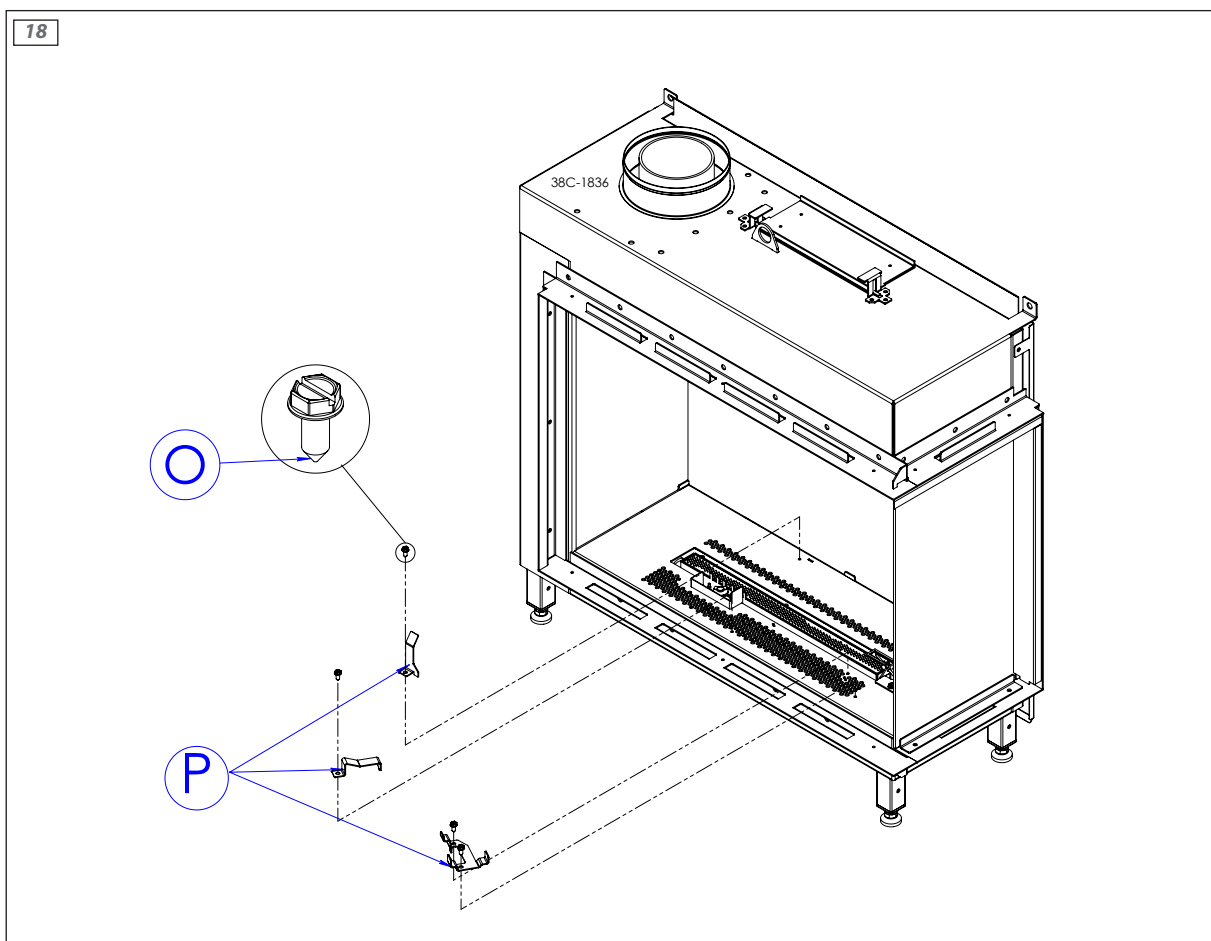


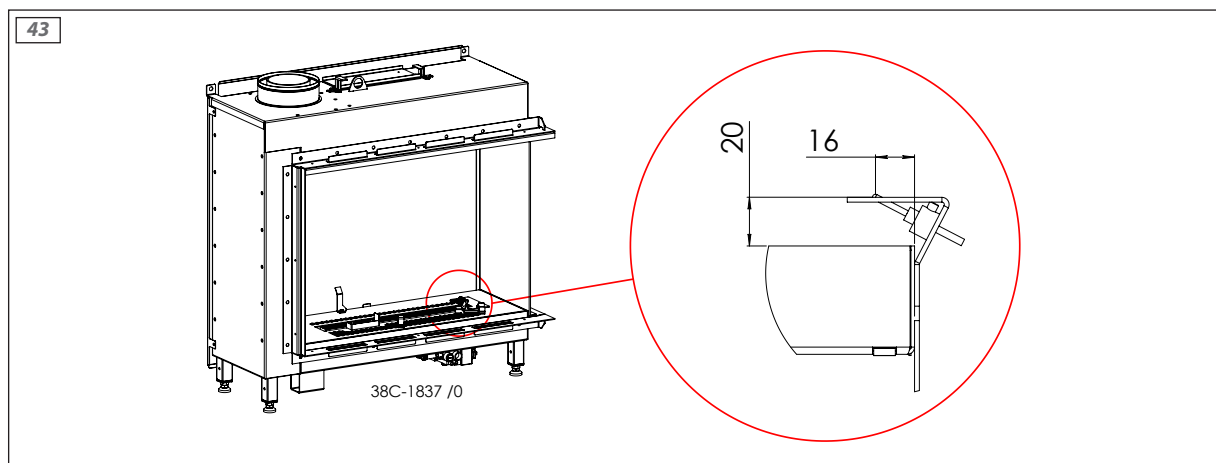
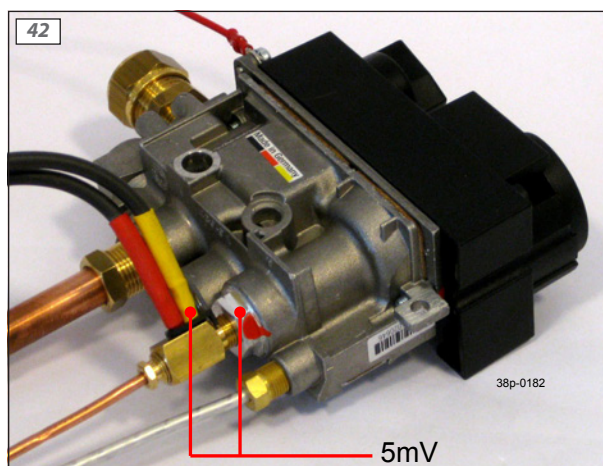
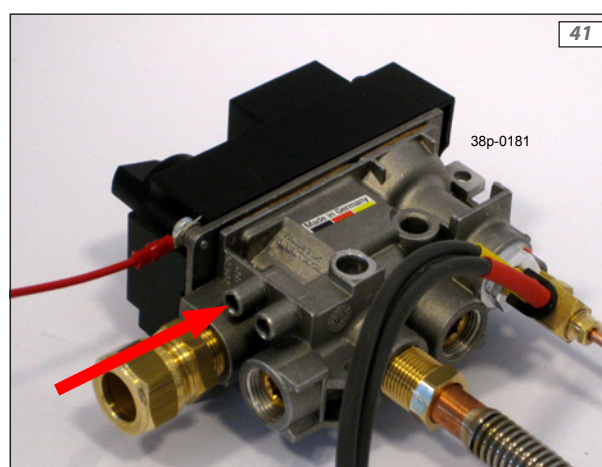
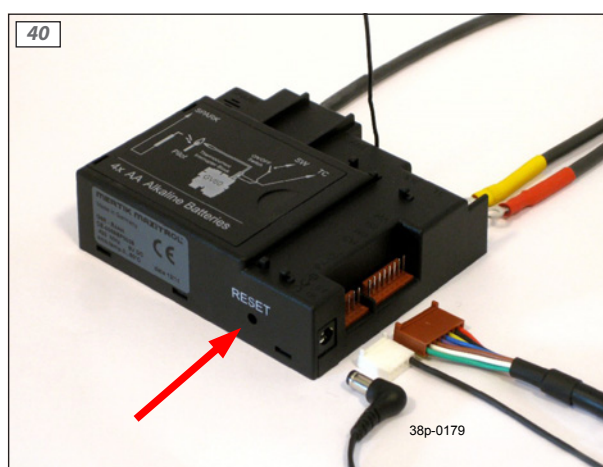
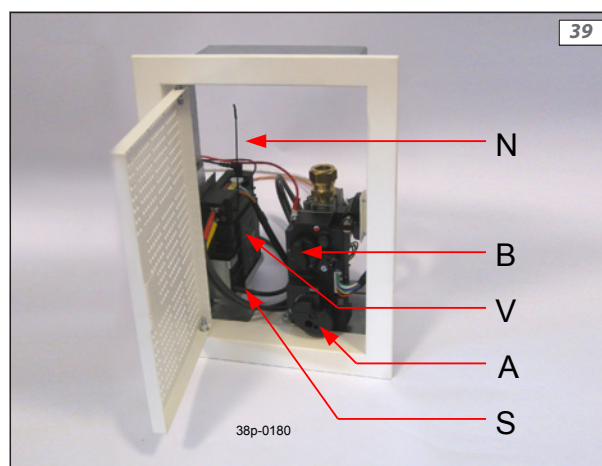
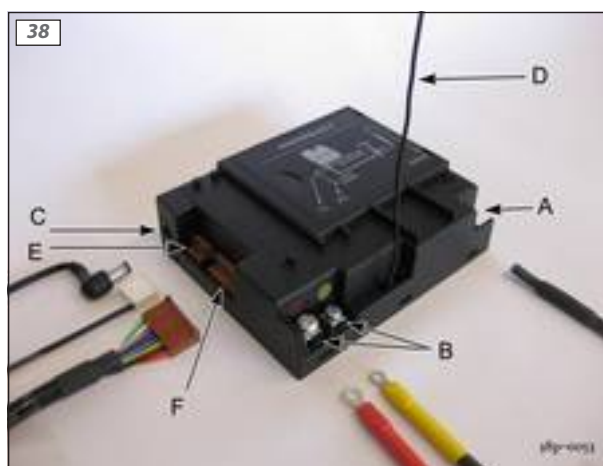
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