

# IDEAL TURBO 2 9, 12, 15, 18 & 24.

## Wall Mounted, Fan Powered, Balanced Flue, Gas Boilers.

### User's Instructions

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**CAUTION:** To avoid the possibility of injury during the installation, servicing or cleaning of this appliance, care should be taken when handling edges of sheet steel components.

Ideal Turbo 2	G.C. Appliance No.
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9	41 415 90
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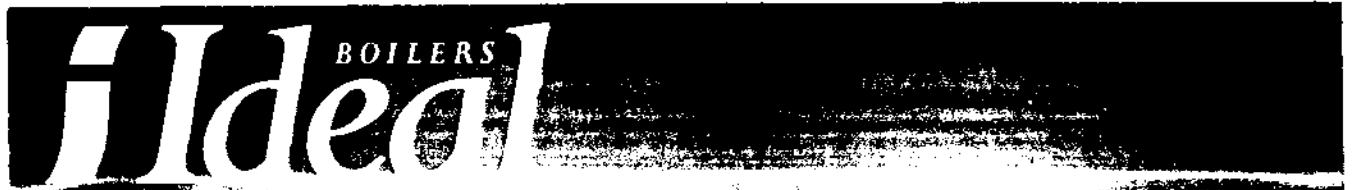
12	41 415 91
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15	41 429 97
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18	41 415 92
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**IDEAL TURBO 2** is a wall mounted room sealed, high efficiency 'condensing' appliance featuring full sequence automatic spark ignition and fan assisted combustion.

Due to the very high efficiency condensate is produced from the flue gases and this is drained to a suitable disposal point through the plastic waste pipe at the left lower rear of this pipeline.

**GAS SAFETY APPLIANCE USE (INSTALLATION) REGULATION, 1984**

In your own interest and that of safety it is the law that this appliance **MUST** be installed by competent persons in accordance with the above regulations.

**WARNING**

This appliance must be **EARTHED**. Connections must be made to a 240 V ~ supply. This appliance is protected by a 3 Amp fuse if a 13 Amp (BS.1363) plug is used or if another type of plug is used the appliance must be protected by a 5 Amp fuse in the circuit.

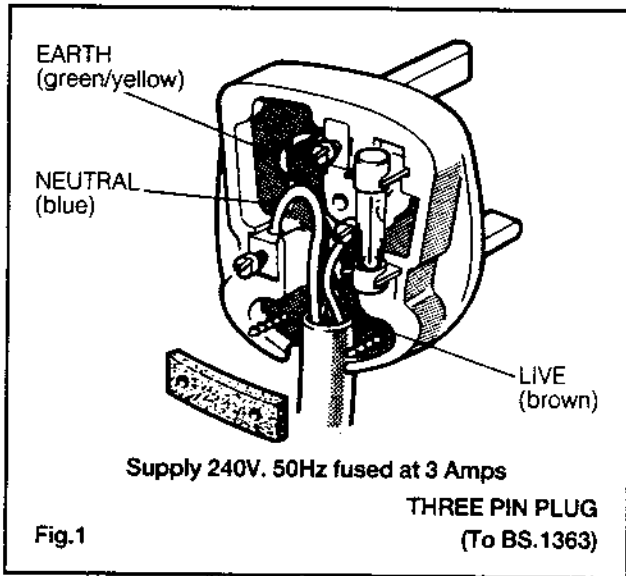
**ELECTRICITY SUPPLY**

As the colour of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:-

The wire which is coloured **GREEN** and **YELLOW** **MUST** be connected to the terminal in the plug which is marked with the letter **(E)** or by the earth symbol or coloured **GREEN & YELLOW**.

The wire which is coloured **BLUE** must be connected to the terminals which marked with the letter **'N'** or coloured **BLACK**.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **'L'** or coloured red.



**IMPORTANT**

**THIS APPLIANCE MUST NOT BE OPERATED WITHOUT THE CASING CORRECTLY FITTED AND FORMING AN ADEQUATE SEAL.**

If the boiler is installed in a compartment it **MUST NOT** be used for storage purposes.

The ventilation provided for the boiler during installation **MUST NOT** be blocked and a check should be made periodically that the ventilation areas are free from any obstruction.

If it is known or suspected that a fault exists on the boiler it must not be used until the fault has been corrected by a competent person.

It is **ESSENTIAL** that the instructions in this booklet are strictly followed for safe and economical operation of the boiler.

**TO LIGHT THE BOILER (See Fig.2)**

Access to the controls is made by sliding the glass fascia upwards until it locates in the retaining catch. If a programmer is fitted refer to separate instructions for the programmer before continuing.

1. Check that the electricity supply to the boiler is **OFF**.
2. Ensure that the gas and water supplies to the boiler are **OPEN** and external controls are 'calling for heat'.
3. Switch **ON** electricity supply to the boiler at the mains electricity supply socket and the **ON/OFF** switch.
4. Initially the 'Power On' and 'Boiler On' neons will illuminate followed several seconds later by the 'Air Pressure O.K.' neon.
5. Almost immediately the ignition electrode will operate and the pilot will ignite. (View through sight glass).
6. Should the pilot fail to ignite immediately the spark ignition will continue until a stable pilot flame is established.
7. Immediately after pilot ignition the main burner will ignite and the 'Burner On' neon will illuminate.
8. If the pilot or main burner fails to ignite switch **OFF** electrical supply to the boiler and consult the Local Gas Region or other competent persons.
9. If the 'Overheat' neon (5) illuminate this indicates higher than normal temperatures in the boiler caused by failure of the control thermostat or lack of water flow in the boiler. If this occurs consult the Local Gas Region or other competent persons.

**WARNING**

If no frost protection is provided and frost is likely during a short absence from home, leave the room thermostat and cylinder thermostat at a reduced setting.

For longer periods, the entire system should be drained, including the domestic water supply, and boiler heat exchanger.

If your system includes a frost thermostat, then during cold weather, the boiler should be turned **OFF** at the time switch(es) **ONLY**.

The mains supply should be left switched **ON**.

**TO SHUT DOWN BOILER**

1. **For short periods:-**  
Switch **OFF** electrical supply to the boiler at the **ON/OFF** switch. When heating is required again restore supply to the boiler.
2. **For longer periods:-**  
Switch **OFF** electrical supply to the boiler, or if frost thermostat is fitted, at the time switch.

**TO RELIGHT THE BOILER**

Repeat the procedure 1-9 detailed in 'To Light The Boiler'

**ESCAPE OF GAS**

Should a gas leak or fault be suspected contact your Local Gas Region without delay.

Do **NOT** search for gas leaks with a naked flame.

**CONDENSATE DRAIN**

Blockage of the condensate drain caused by debris or freezing can cause automatic shut down of the boiler neon or spillage of condensate from the flue terminal.

If freezing is suspected and the pipe run is accessible an attempt may be made to free the obstruction by pouring hot water over the exposed pipe and clearing any blockage from the end of the pipe.

If this fails to remedy the problem the assistance of a heating engineer should be sought.

**CLEANING**

For normal cleaning, a simple dust with a dry cloth. To remove stubborn marks and stains, wipe with a damp cloth and finish off with a dry cloth.

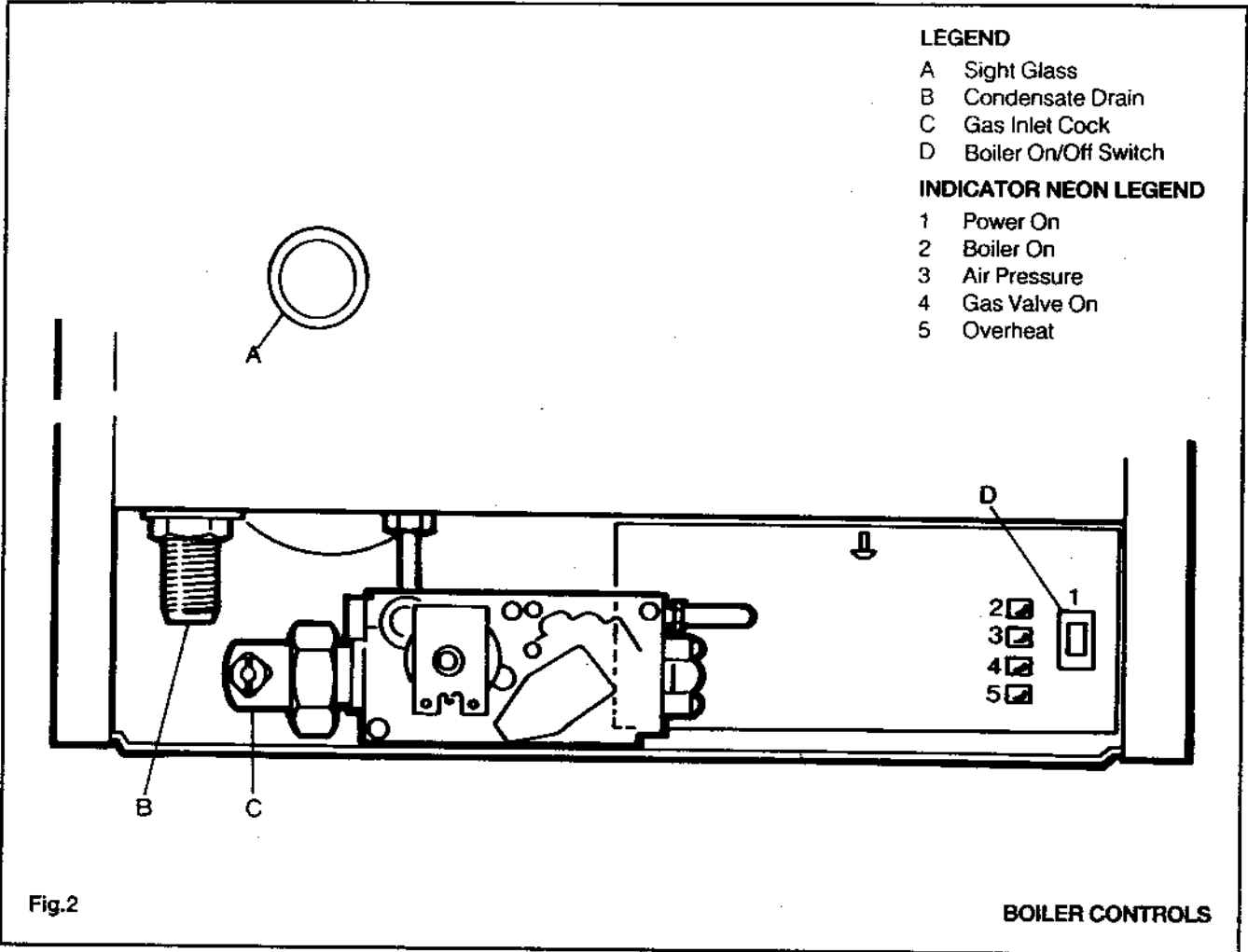
Do NOT use abrasive cleaning materials.

The rear of the fascia should be cleaned during annual service when the casing is removed.

**MAINTANCE**

The appliance should be SERVICED AT LEAST ONCE A YEAR by a competent person or your Local Gas Region.

A clearance of 100 mm (4 in.) MUST be allowed above and below the appliance casing for servicing and 5 mm (1/4 in.) at the sides of the casing.



**CARADON IDEAL Ltd.** pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.

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