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IMPORTANT NOTE

THIS APPLIANCE MUST BE INSTALLED & SERVICED BY A PROPERLY QUALIFIED (IN ACCORDANCE WITH LOCAL & NATIONAL CODES) GAS INSTALLATION ENGINEER.

THESE INSTRUCTIONS ARE FOR THE FIRE'S CONTROL SYSTEM ONLY, AND MUST BE USED IN CONJUNCTION WITH THE INSTALLATION INSTRUCTIONS FOR THE GAS FIRE.

INSTALLATION INSTRUCTIONS FOR THE THERMATRONIC MK2 WALL SWITCH ELECTRONIC CONTROL SYSTEM

IMPORTANT NOTES

TEMPERATURE LIMITS OF ELECTRONIC COMPONENTS

It is of great importance and absolutely necessary to ensure that the electronic control system components does not rise above 70°C.

For Hole In The Wall installations (sunken burners), where the electronics are usually put in the void below the burner, our suggested method is shown in the attached sketch. Cooling air is provided through an inlet grill at low level with a 100cm² free area, and the hot air exits through a slot or similar at high level behind the burner, also 100cm² free area. All fireplace installation have their own particular details, and if your not sure of meeting the temperature limitations, you should allow the fireplace to heat up to a maximum temperature, checking the surface temperature of the electronic components with a contact probe every five minutes, and if necessary provide additional ventilation.

DO NOT SITE THE TRANSFORMER UNIT UNDER THE BURNER UNIT

It is also absolutely necessary to seal off (backfill) the void from the flue to prevent gas/flames being drawn down. See attached sketch.

DAMPNESS

All electronic equipment is sensitive to dampness and high humidity. The thermatronic equipment must be installed in a completely dry place that does not access directly to outside air. If the fireplace has recently been rendered it must be allowed to completely dry out before the electronic equipment is installed. It is possible that dampness has occurred during storage of the appliance, so as a precaution we suggest placing the electronic box in a warm dry place for a while before installation.

ELECTRICAL POWER INSTALLATION

- (1) The power installation must be in accordance with National and Local codes of practice.
- (2) The transformer power supply socket must be positioned so that it is always easily accessible.
- (3) The electrical power data plate is on the DGAI.70N electronics box.

GENERAL

The gas fire unit is supplied with the electrical components already pre-wired and tested ready for installation. Depending on the type of installation it may be necessary to disassemble the electrical components. To re-assemble, read the instructions below together with the attached schematic diagram.

The burner unit is also supplied with the gas solenoid valve and the pilot assembly already fitted. The gas supply pipework from this valve to the main burner injector and the pilot burner is also pre-fitted.

The Earth lead connecting the burner tray to the Ignition Box is also pre-fitted to the pilot assembly. Ensure that this item is properly secure when installing this unit. **NOTE: The earth lead also acts as the return path for the flame sensing system.**

The Cable Harness connects the gas solenoid valve to the Ignition Box. One end of the harness is fitted with a 6 way connector block that plugs into the ignition box, the other end of the harness connects to the gas solenoid valve via the fitted spade connectors.

The 4 core wall switch cable, the incoming low voltage power supply from the Transformer and the Earth lead from the pilot assembly are all pre-wired into the 2 and 3 way connector blocks. These connector blocks plug into the Ignition Box. Refer to the attached schematic diagram for details of the wiring sequence for these items.

IMPORTANT NOTE

THE MAXIMUM ALLOWABLE LENGTH FOR THE 4 CORE SWITCH CABLE IS 3 METRES

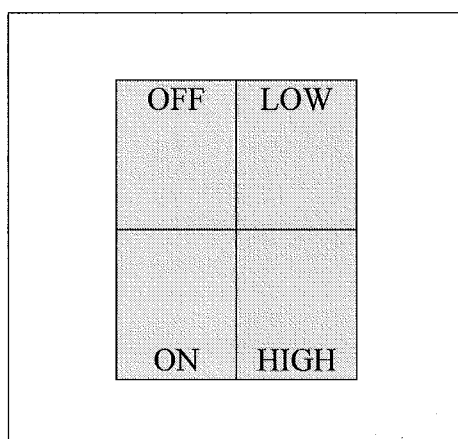
The spark ignition cable connects to the Ignition Box and from there should be routed through to the pilot spark electrode. **NOTE: Care must be taken to ensure that this lead does not come into contact with any part of the burner tray.**

Connect the incoming gas supply to the inlet port of the solenoid valve using 8mm pipework.

PURGE THE GAS SUPPLY BEFORE MAKING ANY CONNECTION ONTO THE VALVE. DO NOT USE LIQUID JOINTING COMPOUNDS ON THE CONNECTIONS.

OPERATING INSTRUCTIONS FOR THE THERMATRONIC MK2 WALL SWITCH ELECTRONIC CONTROL SYSTEM

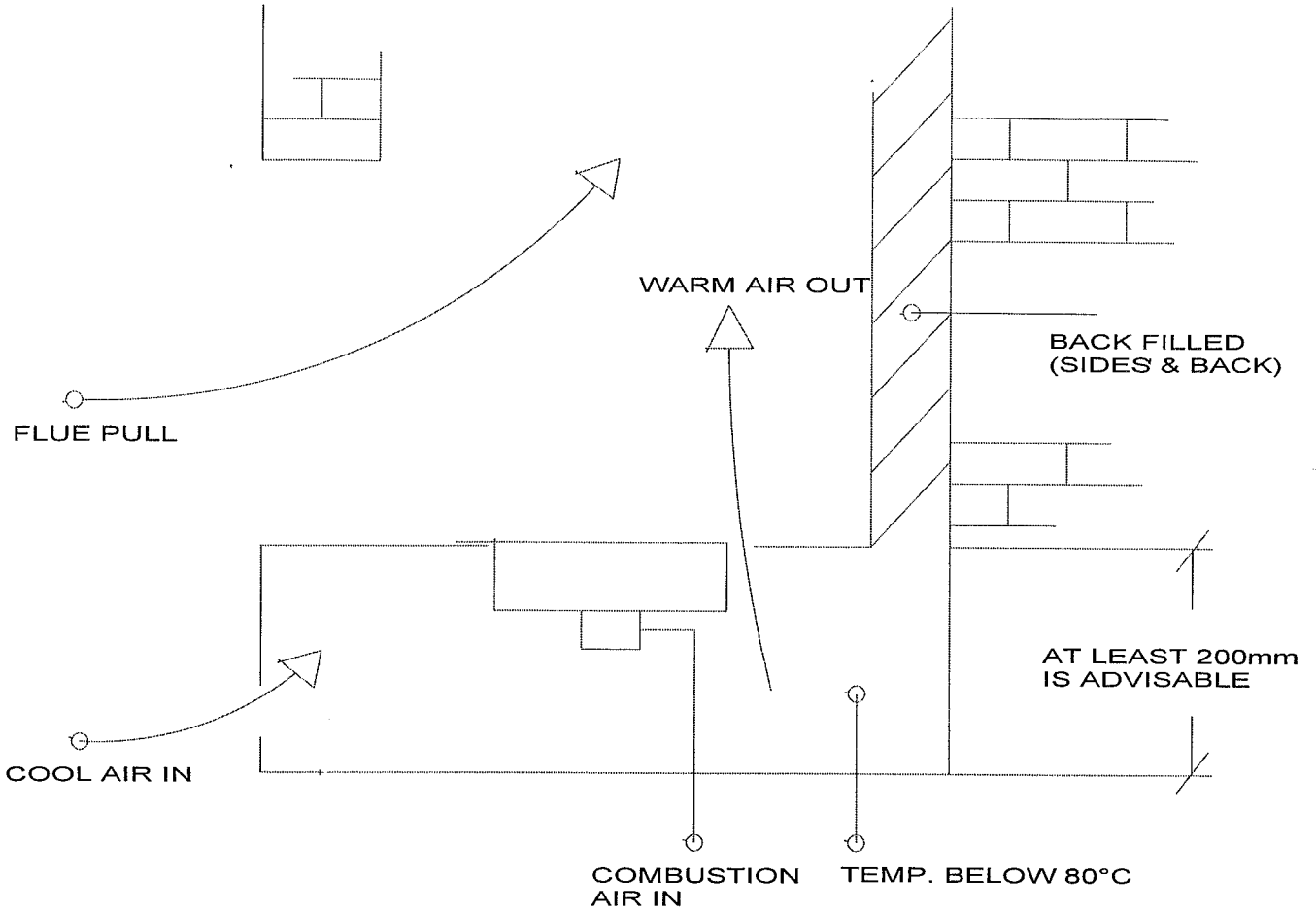
- (1) Ensure that the incoming power supply to the unit is switched on and that the gas supply is also turned on.
- (2) To light the fire, ensure that the **HIGH / LOW** switch is set on the **LOW** flame position. Press the **ON / OFF** switch to the **ON** position.
- (3) After approximately 10 seconds the main burner will ignite on **LOW** flame.
- (4) Use the **HIGH / LOW** flame switch to change the flame setting during normal operation of the fire.
- (5) To turn the appliance off, press the **ON / OFF** switch to the **OFF** position.



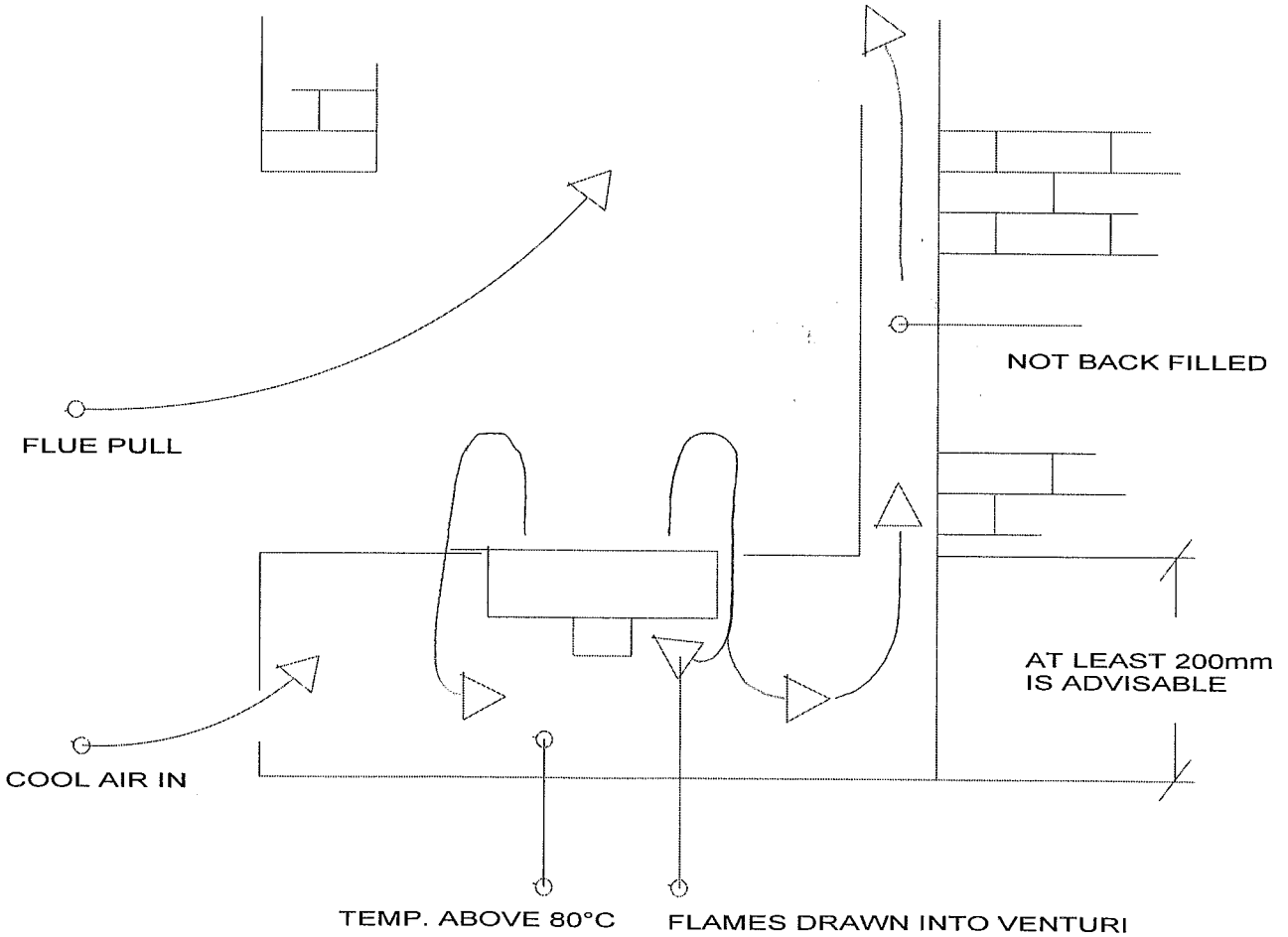
There is a red fault light on the Ignition Control Box which on start up blinks briefly to indicate that start up is in progress. This light will remain permanently on should a fault develop with the fire control system. To reset after the fault has been cleared press the **ON / OFF** switch to the **OFF** position and then to the **ON** position. The fire will then re-light.

If this fire has been installed into a Cast Iron Insert style fireplace, or into a Fire Basket which has a removable fret front / ash pan cover, this cover must be opened to allow air circulation through to the controls.

(A) CORRECT INSTALLATION METHOD



(B) INCORRECT INSTALLATION METHOD



THE SIGNS OF AN INCORRECTLY INSTALLED GAS FIRE, ARE WHITE BURNT PAINT ON EITHER THE SIDES, BACK OR PILOT CUT OUT



SCHEMATIC DIAGRAM OF GAS AND ELECTRICAL SERVICES FOR THE THERMATRONIC MK2 GAS FIRE WITH WALL SWITCH CONTROL

