

Leave these Instructions with the User or the Appliance  
**HI-SPEC J25, HI-SPEC J32, HI-SPEC J32R**  
**HI-SPEC J40 and HI-SPEC M31**  
**Warm Air Heaters**  
**USER'S INSTRUCTIONS**

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**1. GENERAL INFORMATION**

**IMPORTANT: STATUTE LAW DEFINES THAT ALL GAS APPLIANCES MUST BE INSTALLED AND MAINTAINED BY COMPETENT PERSONS, (i.e. CORGI REGISTERED INSTALLERS) IN ACCORDANCE WITH THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS (CURRENT EDITION). FAILURE TO COMPLY WITH THESE REGULATIONS MAY LEAD TO PROSECUTION.**

**WARNING: THIS APPLIANCE MUST BE EARTHED.**

**1.1 WHAT IS SYSTEM E-T ?**

- 1.1.1 System E-T is a control that is built into the warm air system, and which continuously adjusts the heaters operation to maintain the comfort level that you have selected. It provides a continuous supply of warm air, at just the right amount, to keep the selected temperature at a very precise level.
- 1.1.2 By setting the Thermista-stat to the temperature (comfort level) you require, it constantly measures the actual room temperature and compares it with the required temperature, and tells the heater how much warm air to supply in order to maintain the comfort level you have selected. When the comfort level is reached, the burner will cycle on and off, whilst the fan operates at a varying speed to maintain the comfort level.
- 1.1.3 The Thermista-stat is usually situated in the living room where it provides very accurate comfort level control. Since the Thermista-stat controls the heater, it also controls the warm air delivery to other rooms. The warm air system should be 'balanced' to deliver the correct proportion of warm air to each room, and is usually carried out during installation. Adjustments can be made to individual registers (air outlets). By increasing the air flow, the temperature is increased, and conversely, for reduction in air flow the temperature is decreased.
- 1.1.4 **Economy:** If you wish to economise by cutting off heat to an unused room, simply close the register to that room. System E-T will automatically adjust the operation of the heater - and save gas.
- 1.1.5 **Quick warm up:** System E-T warms houses much quicker than radiator systems, however, if you turn on the warm air to a room when the rest of the house is already warm and the system is operating at less than full output, that room will warm up more slowly.

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**2. STARTING AND STOPPING YOUR HEATER**

**IMPORTANT: BEFORE LIGHTING YOUR WARM AIR HEATER, open the warm air outlets in all rooms, ensure any taps in the gas supply to the heater are turned on, the Thermista-stat is at a minimum setting, and the electrical supply to the heater is OFF.**

**WARNING: If the pilot light is extinguished either intentionally or otherwise, no attempt should be made to relight the gas until at least 3 minutes have elapsed. Ensure the Electrical supply, time control and Selector switches are OFF.**

**2.1 TO LIGHT YOUR HEATER:**

- 2.1.1 Remove the heater front door.
- 2.1.2 Slightly depress the OPERATING CONTROL and turn it to the position marked by the SPARK symbol, (approximately  $\frac{1}{4}$  turn anticlockwise). Press and hold the OPERATING CONTROL fully in and, whilst observing the Pilot burner, repeatedly press the IGNITION button until the Pilot burner ignites. With the Pilot burner lit, keep the OPERATING CONTROL depressed for approximately 20 seconds.

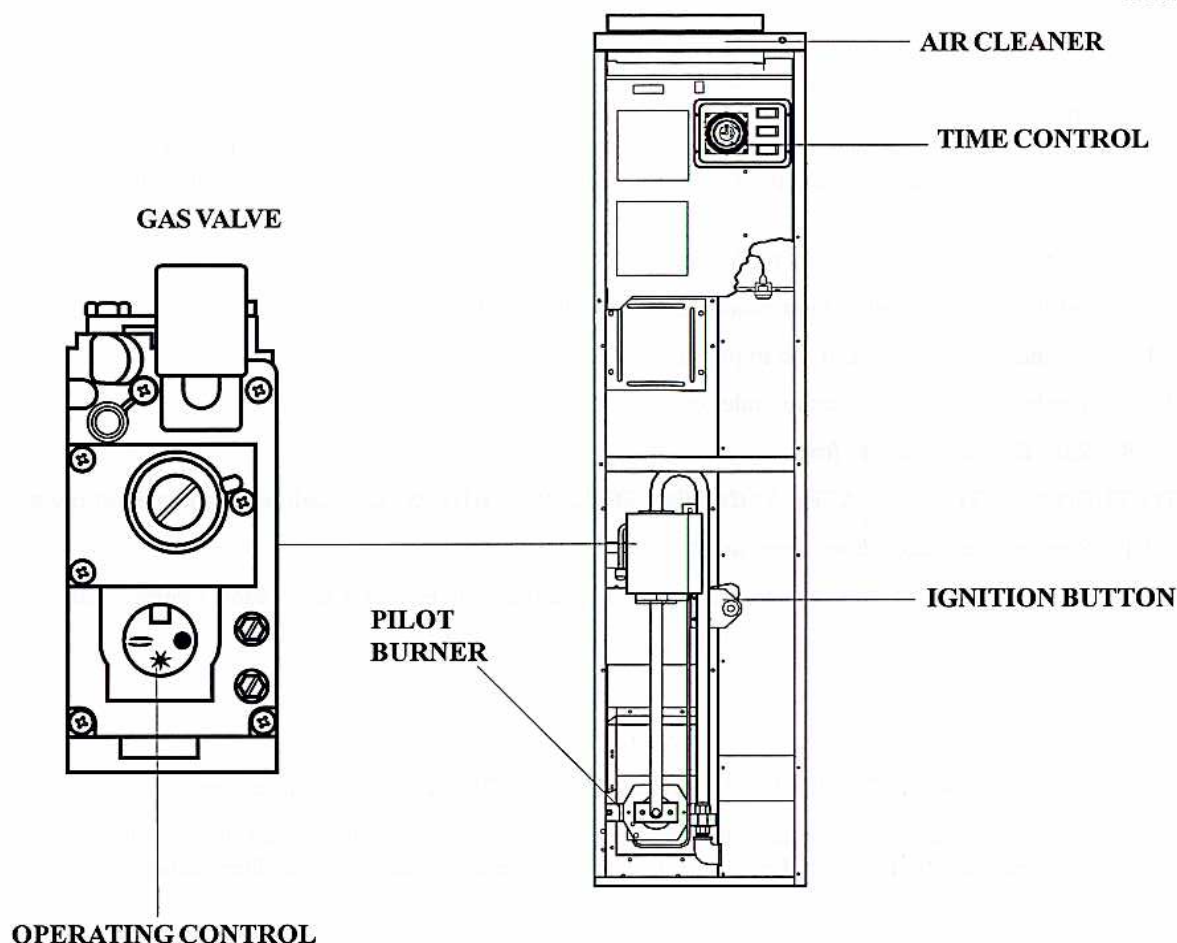
**NOTE:** If the igniter unit fails to generate a spark, the Pilot burner may be ignited by applying a lighted taper whilst the OPERATING CONTROL is pressed.

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- 2.1.3 After approximately 20 seconds release the OPERATING CONTROL and let it spring out. Turn the OPERATING CONTROL to the FLAME symbol (approximately  $\frac{1}{4}$  turn anticlockwise) and ensure that the Pilot burner remains alight. If the Pilot burner goes out, turn the OPERATING CONTROL to the '1' symbol and ensure that the OPERATING CONTROL is fully reset (springs fully out). Wait until a minimum of three minutes have elapsed and then repeat the ignition sequence, holding the OPERATING CONTROL in for a little longer than before, after the pilot has been lit. If the pilot burner still goes out, contact your British Gas or CORGI registered gas service engineer.
- 2.1.4 Switch the electrical supply to the heater ON
- 2.1.5 Set the Time control to your required heating on periods.
- 2.1.6 Set the Thermista-stat to the required setting.
- 2.1.7 The heater will now operate under control of the Thermista-stat.
- 2.1.8 Refit the heater lower front door.
- 2.2 TO TURN OFF YOUR HEATER FOR PROLONGED PERIODS (i.e. week or summer shutdown):**
- 2.2.1 Remove the heater lower front door.
- 2.2.2 Turn the OPERATING CONTROL to the '1' position, and ensure it fully resets (springs fully out).
- 2.2.3 Ensure that the Main burner and Pilot burner are extinguished.
- 2.2.4 Turn the gas supply to the heater OFF at the gas cock.
- 2.2.5 Switch off the electrical supply the heater.
- 2.3 TO TURN OFF YOUR HEATER FOR LIMITED PERIODS (i.e. weekend shutdown):**
- 2.3.1 Set the Thermista-stat to a minimum setting or OFF. This action will prevent the main burner from igniting, but will keep the Pilot burner alight. To reinstate your heating, simply set the Thermista-stat to the required comfort level.
- 2.4 NOTES:**
- 2.4.1 If the OPERATING CONTROL is reset, an inbuilt safety device will prevent the Pilot burner from being relit for a minimum of 1 minute.
- 2.4.2 A safety device in the Pilot burner and gas control will shut off the gas supply should the Pilot flame go out. If this occurs, carry out the procedure in section 2.1
- 3. TEMPERATURE CONTROLS**
- 3.1 SETTING THE THERMISTA-STAT**
- 3.1.1 The numbers on the Thermista-stat dial represent the levels of warmth, and when you select a number the heater operates automatically to maintain that level. You will soon find the setting at which you are most comfortable; and we suggest that you start at mark 6. When the room has warmed up, make adjustments of  $\frac{1}{2}$  mark steps until you are satisfied. The best economy is achieved at the lowest setting you find comfortable.
- NOTE:** The Thermista-stat incorporates a switch at the extreme clockwise position of the knob. This is marked as 'SUMMER AIRFLOW'. With the knob in this position, the air heater fan will run continuously without the burner operating to provide circulation of unheated air.
- 3.2 CONTROLLING YOUR HEATING SYSTEM**
- 3.2.1 You can control the heat to each room by opening and closing the warm air outlets, but not more than half of these outlets should be closed at any one time or the performance of the heating system may be adversely affected.
- 3.2.2 Warm air outlets should only be opened as much as necessary to bring the room to a comfortable level, except in rooms where the Thermista-stat is fitted, when the outlets should always be left open.
- IMPORTANT:** If at any time the main burner should not extinguish when there is no demand for heat, the gas valve OPERATING CONTROL should be reset. A safety device will prevent the Pilot burner from being relit for a period of 1 minute.



**Fig. 1**  
**TYPICAL HI-SPEC AIR HEATER**

#### 4. TIME CONTROLS

- 4.1 The integral time control (Fig. 2) enables continuous or timed operation of your air heater, and water heater (if fitted), either individually or together.
- 4.2 The SUMMER AIRFLOW switch allows the heater to be used for circulating unheated air in the home.
- 4.3 **To set the time of day:** Grip the outside of the dial and turn the dial **clockwise** until the beginning of the correct day is indicated by the pointer. **SLOWLY** continue to turn the dial **clockwise** until the centre clock dial approaches the correct time of day. Finally, turn the minute hand of the centre clock dial **clockwise** until the correct time of day is displayed. **DO NOT** attempt to turn the dial anticlockwise.
- 4.4 **To set ON and OFF Times:** ON times are set by pushing the tappets **IN** towards the centre of the dial, and OFF times are set by tappets being withdrawn to the outside of the dial. The minimum operating period that can be set is 2 hours (single tappet).

**Example:** required ON times are 06.00 (6.00 am) to 08.00 (8.00 am) and 18.00 (6.00 pm) to 22.00 (10.00 pm), MON-FRI, and 08.00 (8.00 am) to 10.00 (10.00 am) and 16.00 (4.00 pm) to 23.59 (midnight) SAT-SUN.

- 4.4.1 Push tappets at 6.00 to 8.00 (fourth tappet), and 18.00 to 22.00 (tenth tappet) in towards the centre of the dial for **MO, TU, WE, TH** and **FR**. Push tappets at 8.00 to 10.00 (fifth tappet), and 16.00 to 00.00 (ninth to twelfth tappet) in towards the centre of the dial for **SA** and **SU**.
- 4.4.2 Withdraw all other tappets to the outside of the dial.
- 4.4.3 Set the correct time of day by turning the dial **CLOCKWISE** until the actual time lines up with the pointer.
- 4.4.4 Set the Air Heating switch to 'TIMED'.
- 4.4.5 Set the Thermista-stat to the desired setting, the heater will now operate during the required on times.



#### 4.5 OTHER OPERATING CONDITIONS:

- 4.5.1 The heaters can be made to operate during the day (e.g., weekends) by setting the switches to 'ON ALL TIME'. Room and hot water temperatures will be controlled automatically.
- 4.5.2 To return to the usual 'ON' and 'OFF' times (i.e. overnight or during weekdays), slide the switches to 'TIMED'.
- 4.5.3 If heating is NOT WANTED, set the switches to the 'OFF' position.

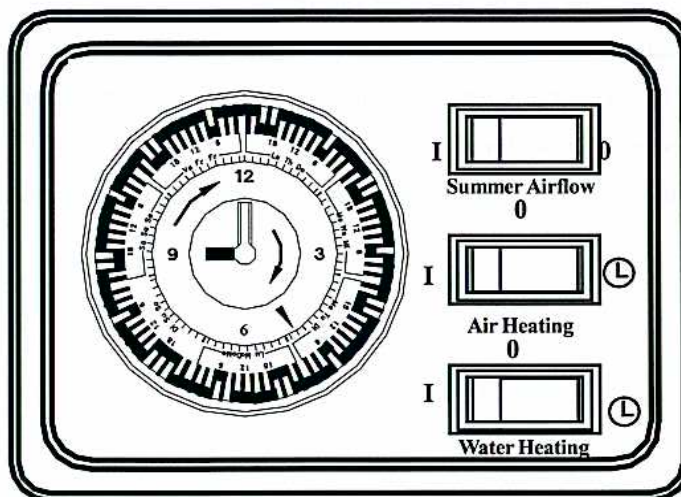


Fig. 2  
Integral Time Control

### 5. MAINTENANCE

#### 5.1 AIR CLEANER

- 5.1.1 The only maintenance required is to remove the Cleaner element approximately every fortnight and inspect it for buildup of dust and deposits, and if necessary remove deposits from the screens; and periodically replace the Cleaner pads in accordance with the instructions provided with the replacement pads.

**Note:** If the cleaner pads are allowed to collect too much dust, operation of the Air Cleaner may become ineffective.

#### 5.2 MAINTENANCE

- 5.2.1 It is recommended that a full maintenance check be made on your appliance(s) annually, and that a service contract is taken out on completion of the guarantee period. Details of arrangements for this service are given overleaf.

### 6. TROUBLE SHOOTING

#### 6.1 AIR HEATER NOT WORKING

- 6.1.1 Check that the Thermista-stat and time controls are set correctly for your requirements, and that at least half of the warm air outlets are open, especially in the room where the Thermista-stat is fitted.
- 6.1.2 Check that the Pilot burner is alight. If not, follow the lighting procedure as described in Section 2.
- 6.1.3 Check if the air cleaner is clogged. Clean as instructed in Section 5.
- 6.1.5 **New Appliances:** Service is supplied under guarantee by the installer for the first 12 months.
- 6.1.6 Housing Associations and Local Authorities will have arrangements for their own servicing arrangements.

**IMPORTANT:** When replacing a mains fuse, the fuse rating **MUST NOT EXCEED 5 amps**.

### 7. EMERGENCY POWER RESTRICTIONS (Power Cuts)

- 7.1 If you experience an electrical power cut, the gas control on your heater, being electrically operated, will close. The main burner will go out but the Pilot burner will remain alight. When the electrical supply returns, the air heater will work normally again.
- 7.2 If your heating system is controlled by an electrical time control, it will be necessary to reset the clock dial as described in Section 4.

8.

**IMPORTANT**

**FOR YOUR HEATER TO WORK EFFICIENTLY AND FOR YOUR HEATING SYSTEM TO PERFORM SATISFACTORILY, IT IS ABSOLUTELY ESSENTIAL TO OBSERVE THE FOLLOWING:**

- 8.1 This air heater is installed in a ventilated area. **DO SEEK ADVICE** from your British Gas or CORGI registered gas Service engineer before making any alterations likely to reduce the supply of fresh air to the heater.
  - 8.2 **DO KEEP CLEAN**, and make sure you **DO NOT OBSTRUCT** any grilles on the heater, in the heater compartment, or in any walls, windows or doors of the building.
  - 8.3 **DO CLEAN AND REFIT** the air cleaner at least once per month or to the manufacturers instructions.
  - 8.4 **DO NOT PLACE ANYTHING** (clothing, linen etc.) in contact with the air heater or its flue pipe.
  - 8.5 **DO NOT USE** the heater compartment for storage or airing.
  - 8.6 **DO NOT** turn off the mains electricity supply to the air heater until the gas supply has been turned off.
  - 8.7 **IF YOU SMELL GAS:**
    - 8.7.1 Turn **OFF** the gas.
    - 8.7.2 Ventilate the area.
    - 8.7.3 **DO NOT OPERATE ANY ELECTRICAL SWITCHES.**
    - 8.7.4 Call **TRANSCO** on 0800 111 999
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