

Ultima and Estate GAS FIRES



Installation and Operation Manual

Please read and understand this manual before operating your *KENT* Ultima or Estate Gas Fire.

If you have any questions regarding this manual, or use of your Gas Fire, please contact your dealer.

INSTALLER: Please leave these instructions with the customer for future reference.

THE INSTRUCTIONS IN THIS MANUAL APPLY TO KENT GAS FIRES.

THE MODELS COVERED ARE:-

For use with Natural Gas:- KENT ESTATE NG, KENT ULTIMA NG For use with Liquid Propane Gas (LPG):- KENT ESTATE LP, KENT ULTIMA LP

WARNING.

Installation of all gas appliances MUST be carried out only by an Authorised Installer.

The heater must be installed according to these instructions and in compliance with all relevant building, gas-fitting, electrical and other Statutory Regulations (e.g. AS 5601 (AG-601), NZS 5261). Any shortcomings in the appliance and flue installation will be the responsibility of the installer, and GLG Ltd will not be accountable for any such failings or their consequences.

These appliances must not be installed in mobile homes.

We recommend that you have your heater checked yearly by an Authorised Technician.

BEFORE INSTALLATION COMMENCES, check the data plate on the rear of the heater cabinet to verify that it is the correct type to suit your gas and also that the gas consumption rate is correct for your application.

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THIS BOOK CONTAINS IMPORTANT INFORMATION.
IT MUST BE LEFT WITH THE PURCHASER TO BE
KEPT IN A SAFE PLACE FOR FUTURE REFERENCE.

OPERATING INSTRUCTIONS

DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.

DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.

LIGHTING AND RUNNING THE FIRE:-

• Open the gas supply valve behind the appliance, if fitted.

CAUTION: If the main burner has been alight, wait two to three minutes to allow it to cool before relighting it.

- Press down on the control knob at the top of the heater and turn it slowly anticlockwise. The piezo igniter will click as a spark jumps across the terminals at the pilot light. It may be necessary to repeat this a number of times before the pilot ignites if there is air in the pilot light pipeline.
- Keep holding the control knob down for 15 to 30 seconds after ignition. Release the pressure on the control knob the pilot should remain alight when the knob rises.
- Turn the control fully anticlockwise to the 'HIGH' position and the fire will light at full heat. There may be a strong smell the first time the logs are fired but this will soon disappear.
- After ten minutes, set the control to give the desired heat output.

TURNING THE FIRE OFF:-

- Push down and turn the control to the 'PILOT' position. The pilot will remain alight.
- To extinguish the pilot light on STD models, press down on the control and turn it fully clockwise to the 'OFF' position.

CLEANING INSTRUCTIONS

The outside of the cabinet and glass should need no more than an occasional wipe with a damp cloth to remove any dust which may have settled.

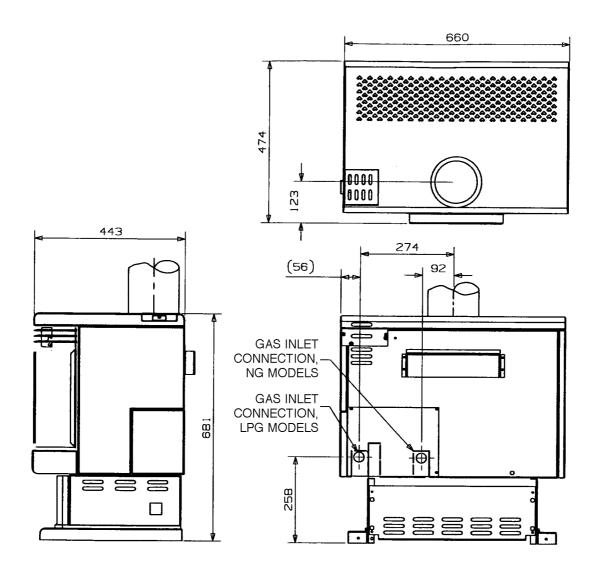
All visible flame gas heaters can produce small amounts of soot, particularly if the combustion air entry slots under the heater are obstructed or the aeration air inlets are clogged with lint.

After a time, the inside of the glass may require cleaning. To do this, carefully remove the three glass pieces (See Glass Removal and Assembly, page 8), and clean their inside surfaces with a non-abrasive cloth and a non-scratching, NON-CAUSTIC type household cleaning liquid. Replace the parts as detailed on page 8, keeping fingerprints off the inside glass surfaces.

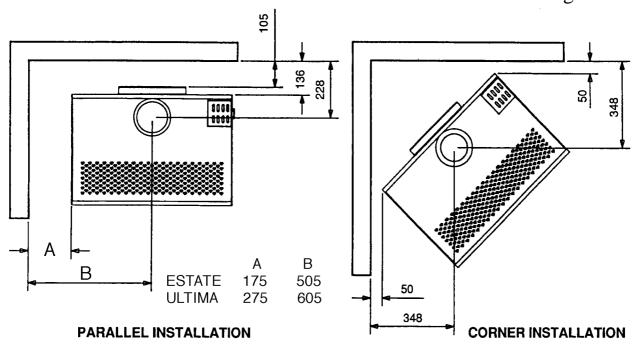
No other user maintenance should be necessary. If you require any other service or adjustments, contact your Installer or Dealer.

INSTALLING INSTRUCTIONS

HEATER DIMENSIONS (ESTATE AND ULTIMA MODELS)



MINIMUM INSTALLATION CLEARANCES (To heat sensitive surfaces) g



g NOTE: The clearances shown are for fire hazard only. For durability of finishes or surfaces you should contact the relevant manufacturer for their specification. GLG Ltd accepts no responsibility for the deterioration of surfaces or finishes.

NO FLOOR PROTECTOR (HEARTH) IS REQUIRED ALCOVE INSTALLATION NOT PERMITTED

POSITIONING THE HEATER

Select a dry site on any rigid flooring surface, keeping in mind the following:-

- A central position free of strong draughts will ensure even heat dispersal.
- Check that the flue and its shielding will be able to pass through the ceiling space and roof without interfering with any structural timberwork.
- The flue must terminate above the roof no less than 500mm clear of any part of the roof, and at least 1 metre horizontally from any neighbouring structure.
- The minimum specified clearance distances to heat sensitive materials MUST be maintained at all times, and sufficient room will be needed to facilitate servicing the heater.
- Avoid positions where curtains or furniture might accidentally come too close to the heater.
- Select a location where the gas supply can be installed readily.

INSTALLING PROCEDURE

SHIMS. On ULTIMA heaters, the glass panels are protected from shipping damage by paper shims fitted between the front and side glasses. Before lighting the heater, remove the shims.

GAS. Access to the gas connection point is obtained by removing the cover panel on the rear of the cabinet. (Four screws)

Connection is made to the LP models using a 3/8" BSP fitting, while the NG models have a 1/2" BSP fitting. In all cases a shut-off valve should be installed directly behind the heater to facilitate isolation of the heater for servicing.

It is essential to purge all gas lines before making the connection to the heater to eliminate any swarf.

GAS PRESSURE ADJUSTMENT. All pressure adjustments must be made while the heater is operating on the 'HIGH' setting.

NG models. These have a pressure regulator separate from the control valve. The regulator must be set to 1.0 kPa. The pressure test point is on the side of the regulator and the adjusting screw is on the top. Slacken the lock-nut and rotate the screw by hand, screwing down to increase the pressure. Tighten the lock nut after adjusting. This should result in a valve outlet pressure of 0.72 kPa.

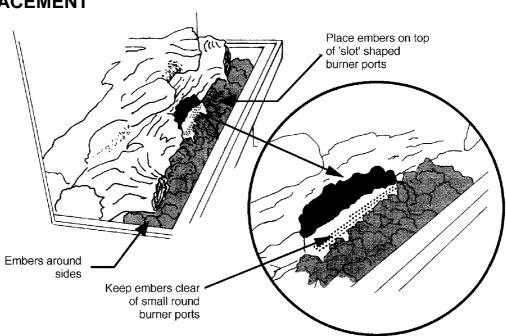
LP models. These models have no internal pressure regulator as they run directly on the 2.71 kPa pressure delivered by the gas bottle regulator.

FLUE. USE ONLY AN APPROVED FLUE SYSTEM.

- 1. Stand the heater in its proposed position, taking care to observe the minimum clearances shown on page 4. The heater does not require a floor protector (hearth).
- 2. Drop a plumb-bob from the ceiling to hang centrally in the flue socket of the heater and mark the position on the ceiling. Drive a small nail through at this point and inspect the ceiling and roof to ensure that the flue and its trim will be at least 25mm clear of any combustible material. The flue termination requirements stated in 3 below will also need to be met.
- 3. Cut appropriate holes through the ceiling and roof material and install the flue in accordance with the instructions accompanying it, taking care to provide any safety clearances specified in the instructions (usually 25mm between the flue shield and any nearby combustible material). The installation must meet the requirements of AS 5601 (AG 601) or NZS 5261 as appropriate. The top of the flue must be above the roof, at least 500mm clear of any part of the roof and at least 1 metre horizontally from any neighbouring structure. All flue sections must be securely coupled to each other.
- 4. Flash the flue at the point of exit through the roof, to prevent water entry, and fit the flue cowl.

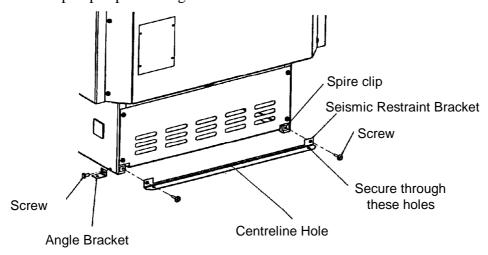
It is the responsibility of the installer to ensure that the flue system is operating correctly. See 'TEST FIRING' below.

EMBER PLACEMENT



SEISMIC RESTRAINT

New Zealand regulations require that flued gas heaters be secured to prevent shifting in the event of an earthquake. This is best done by fastening the heater to the floor right through the floor protector if one is fitted. Fasten with two screws not less than 12 gauge or the equivalent in coach screws or toggle fasteners. Anchor the appliance through the holes in the seismic restraint bracket or in the two angle brackets supplied. The angle brackets attach at each side of the pedestal. If the seismic restraint bracket is used, it can be fastened to the rear of the pedestal either before or after fitting the anchor screws. The small centreline hole in the bracket will help in pre-positioning it.



TEST FIRING

It is absolutely essential that the installer test fires the heater before leaving the site.

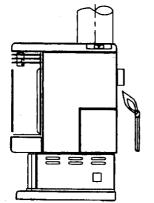
If fitted, open the gas supply valve at the rear of the heater and check all gas joints for leakage using a leak check solution or an electronic 'sniffer', NOT a naked flame.

Test fire the heater, following the lighting instructions on page 6 of this manual.

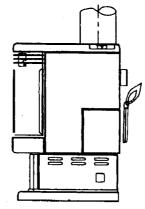
First check that the pilot light ignites satisfactorily. Initially it may take several attempts until the air is purged from the pipeline. Once it has lit, extinguish it again and verify instant re-ignition.

Light the main burner to verify satisfactory ignition and cross-lighting. Repeat this procedure several times. Always wait two or three minutes after turning off the main burner before lighting it again. The main burner should be test run for at least ten minutes.

After the fire has been alight for five minutes on 'HIGH', hold a smoking taper or match at the exit of the draught hood (behind the heater) to verify that the flue is drawing correctly and that flue gases are not spilling into the room.







Blown out: Spillage/Backdraughting

If satisfactory operation cannot be achieved, contact the Retailer for further advice.

IMPORTANT. It is the responsibility of the installer to instruct the customer on the safe and correct operation of the appliance, and to ensure that this instruction booklet remains with the customer.

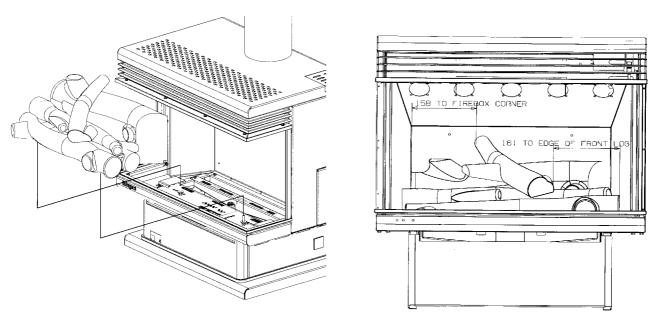
SERVICING INSTRUCTIONS

Servicing must be carried out only by authorised personnel.

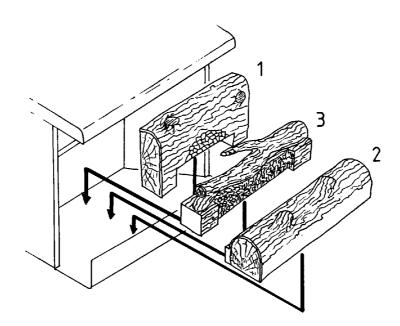
Minor adjustments can be made with the heater in its normal operating position, but it will be found more convenient to move the heater away from the wall for major work.

If it is necessary to move the heater:-

- Shut off the gas supply at the valve behind the heater.
- Remove the access plate on the rear of the cabinet.
- Disconnect the gas line at the heater.
- Lift the flue trim about 75mm and support it with a wooden block.
- Slacken any flue clamp, and lift the flue while moving the heater from beneath it.
- Slide the heater away from the wall, supporting the flue and trim on a suitable spacer.
- Keep the heater upright at all times to avoid displacing the logs. The correct gas-log positions are shown below.



ULTIMA LOG POSITIONS



ESTATE LOG POSITIONS

ACCESS POINTS

- 1. THE CABINET REAR AND SIDE COVER PLATES. These give access to the gas entry connection, the pressure regulator and the gas control valve (incorporating the piezo igniter module). The filter for the pilot light gas supply is under the large cheese-headed screw on top of the gas control valve.
- 2. THE GLASS. See below for removal instructions. Access is then available for the log assembly, the pilot light, igniter points and flame safety sensor and the burner(s).
- 3. THE ENTIRE UPPER CABINET may be removed if access to the heat exchanger is necessary. First remove the glass. The cabinet is retained by eight screws from underneath and three screws on each front vertical edge of the firebox.

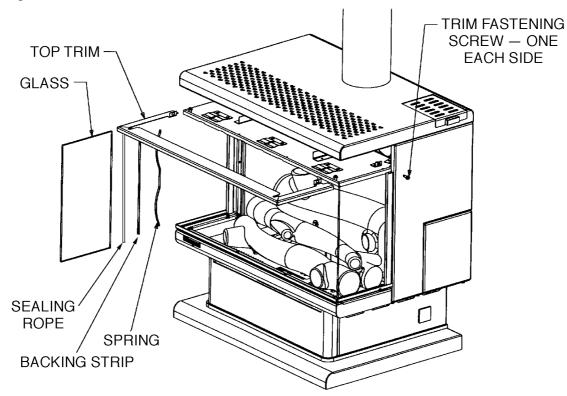
GLASS REMOVAL AND ASSEMBLY

Carry out these procedures only while the heater is standing upright.

Dismount the louvre by lifting it upwards and outwards and remove fastening screws securing the top glass trim.

ULTIMA models:-

- 1. Slide forward the top glass trim and lift it clear. Note. This will release the top edges of the three glass pieces. **Ensure that they do not drop out**. A masking tape strap around the glass at each front corner is useful for this.
- 2. Lift the front glass clear.
- 3. Lift each side glass clear. They will reveal at their rear edges a glass sealing rope, a backing strip and a spring.



- 4. Assembly is the reverse of the above. Clean the inside surfaces of the glass, using a non-abrasive, non-caustic, liquid household cleaner, and keep fingerprints off as they are assembled. First assemble the side glasses to the heater. Fit the spring first, then the backing strip, then the rope and finally the glass.
- 5. Fit both side glasses in place so that their SMOOTH EDGES WILL BE AGAINST THE FRONT GLASS. The front glass can then be fitted, TAKING CARE THAT THE BEVELLED EDGES FACE THE FRONT (i.e. away from the side glasses). Offer the front glass into position with its lower edge just above the top of the bottom retaining channel. Press the front glass back against the side glasses, compressing the springs until it the glass is directly above the channel. Maintaining the backward pressure, slide the front glass down into the channel.

- 6. For safety, fix the two top front corners of the glasses together with adhesive tape to prevent them from falling outwards.
- 7. Replace the top glass trim, fit its fastening screws, remove the tape and refit the louvre assembly.

ESTATE models:-

- 1. Lift the top glass trim clear of the fire.
- 2. The two side glass retaining angles can now be removed by first lifting them vertically. Take care that the glass does not fall forward when the second angle is removed.
- 3. The glass can now be lifted clear.
- 4. Assembly is the reverse of the above. Clean the inside surface of the glass and keep fingerprints off it as it is replaced on the heater.

REMOVING THE BURNERS (ULTIMA)

- 1. Remove the glass (see page 8).
- 2. Lift the logs out carefully.
- 3. Inside the firebox, remove the secondary air covers, one at each end of the front burner. (2 screws for each cover)
- 4. Remove the two front burner retaining screws and lift out the burner by raising the end opposite the injector (the left hand end) first.
- 5. Use the same procedure to remove the rear burner.

REMOVING THE BURNER (ESTATE)

- 1. Remove the glass (see page 8).
- 2. Lift the logs out carefully.
- 3. Remove the pedestal rear cover plate.
- 4. Disconnect the feed pipe at the main injector (brass elbow).
- 5. Unscrew the main injector.
- 6. Inside the firebox, remove the air metering plate (just in front of the burner three screws) and lift out the draught deflector. Remove the four burner retaining screws.
- 7. Ease the burner up a little and remove the entire pilot light/igniter assembly (two nuts) from the main burner.
- 8. Lift the burner clear of the firebox.

ROUTINE MAINTENANCE SCHEDULE

We recommend that you have your heater serviced yearly by an Authorised Technician. This periodic maintenance should cover the following points:-

- 1. Replace the filter in the control valve.
- 3. Clean all air entry points such as primary and secondary air inlet passages.
- 4. Clean the main injector jet hole(s).
- 5. Clean away any carbon build-up from the pilot and igniter electrodes.
- 7. After the above steps, check the operation of the pilot, the burners and the control valve by lighting the fire.

Other points which can be checked after completing the above are:-

- 1. Thermocouple generation.
- 2. Gas consumption rate.
- 3. Carbon dioxide content in the combustion products.
- 4. The flue operation.

Note: To ensure satisfactory performance, all components fitted should be genuine original manufacturer's spare parts.

TROUBLE - SHOOTING

The following table lists possible problems and their likely causes. Most of these will require a professional serviceman and we recommend that this work be performed by an Authorised Technician. If a problem cannot be solved after referring to this table, please call the Retailer from whom the appliance was purchased. Refer to your Warranty Card for details of Warranty cover.

PROBLEM	POSSIBLE CAUSE(S)	SOLUTION	
Pilot will not light and there is no strong blue spark	Faulty electrode wire or wire connection(s).	Make sure wire is not shorting and connections are firm at each end.	
Pilot will not light even though there is a strong blue spark.	Air in pilot pipeline.	Repeat starting attempts until air is cleared.	
	Incorrect lighting procedure.	Follow the instructions in this manual.	
	No gas supply at heater.	Check for closed gas valve(s) or faulty gas supply lines.	
	Pilot filter or jet blocked.	Replace the filter in control valve. Clean jet.	
	No fuel in LPG system.	Replenish LPG supply.	
Smell of flue gas in the room.	Flue gas spilling from the draught diverter at the rear of the heater.	Check for flue blockage, negative air pressure in the room or circumstances causing down-draught.	
Smell of gas in the room	Pipe fittings may be leaking.	Check all joints for leaks, including the gas supply system, the pilot light supply tube, the main burner supply tube and all connections to the control valve and pressure reducing valve (NG models). Use ONLY a proper leak check solution. NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS.	
A thin coating of black soot forms inside the glass.	Combustion air supply restricted.	Check all joints for leaks, including the gas supply system, the pilot light supply tube, the main burner supply tube and all connections to the control valve and pressure reducing valve (NG models). Use ONLY a proper leak check solution. NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS.	
A thin coating of black soot forms inside the glass.	Combustion air supply restricted.	Clean all primary and secondary air passageways.	
	Over-supply of gas.	Adjust gas delivery pressure at test point.	
	Logs out of position.	Arrange logs correctly.	
A white coating forms inside the glass.	Residues of new logs being burned off.	Follow glass cleaning directions under Cleaning Instructions.	

ANNUAL SERVICE RECORD

DATE	SERVICE DETAILS	SERVICED BY

KENT Gas Fires are manufactured in New Zealand for GLG NZ LTD. P.O. Box 27-250 Mt Roskill, Auckland New Zealand.

Installed by:-		
Date:-		