

Rinnai

SERVICE MANUAL

CLASSIQUE FLAME FIRE INBUILT



RINNAI FLAME FIRE INBUILT



SERVICE INFORMATION

The Inbuilt Flame Fire consists of a glass-fronted combustion chamber and heat exchanger system (incorporating 3 burners). Control is by a top mounted Rinnai push-button operated multi-functional gas control. A convection fan is incorporated in the base.

GENERAL

The heater is packed with the log set in the combustion chamber, retained by the glass panel which is removed for access.

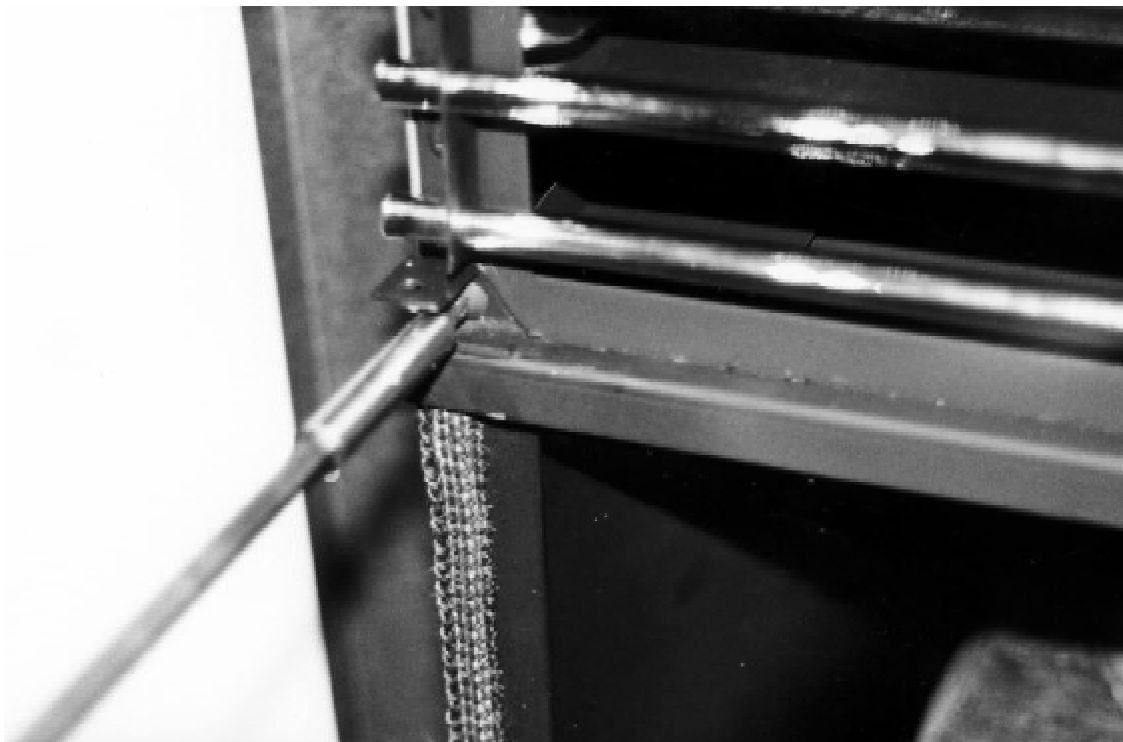
GLASS PANEL REMOVAL

Remove the side panel retaining screws (right-hand side shown).



Access can now be obtained to the two top glass retaining screws.

Remove the top glass retaining trim, held in place by two screws.



Gently lift the retaining trim away from the glass.



Carefully lift the glass out of the bottom retaining channel, taking care not to damage the glass seal.



Lift the log set out of the combustion chamber and place aside.

If the logset is fitted in its final position, (heater has been used), remove all the logs carefully after they have colled. Remove all the ember bed material from the front burner and place in a container for replacement when the heater is reassembled.

Logset Removal



Burner Removal

With the glass panel and log set removed access is now available to the burners, injectors, pilot holder and thermocouple.



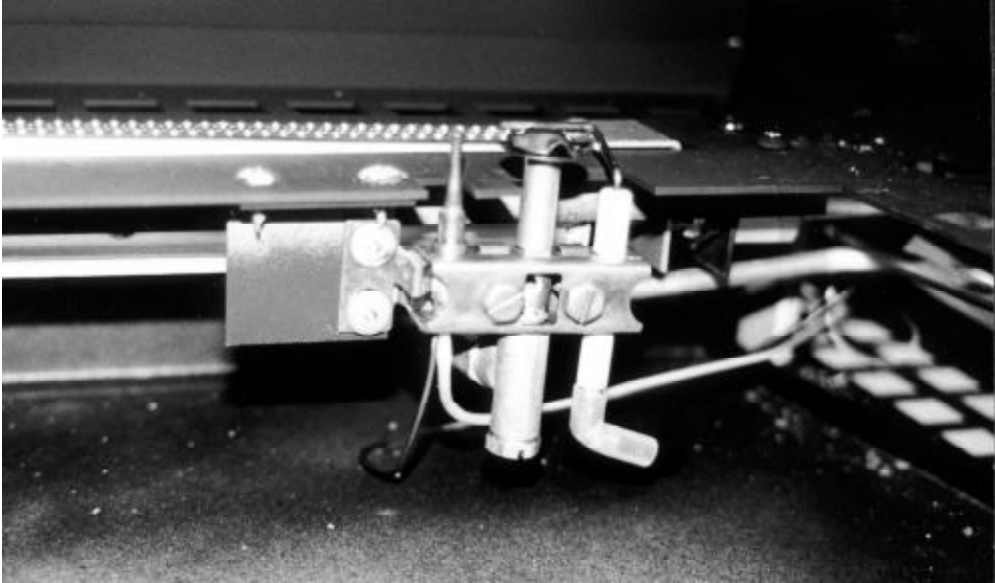
The ember bed burner (front) and the flame burner (centre) are each held in place by a screw on the left-hand side. To remove the burner - remove this screw and lift the burner out of the combustion chamber.



The rear heat burner is removed by unscrewing and removing the two retaining screws and drawing the burner to the left-hand side under the combustion chamber.

PILOT ASSEMBLY

With the flame burner removed, access is available to the pilot burner assembly.



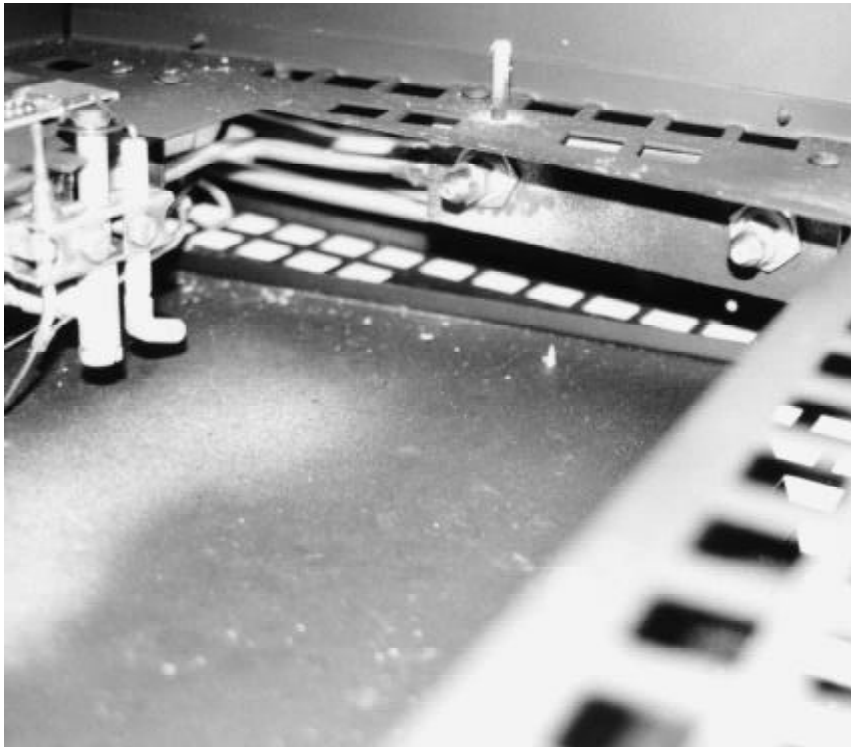
To remove the assembly, remove the two 3/8ths securing screws holding the assembly to the pilot bracket.

Access to the pilot, ignition electrode and thermocouple can be gained by removing the two hexagonal bolts on the pilot assembly.

INJECTOR ACCESS

Access to the injectors is available after the burner assembly has been removed.

To remove the pilot burner assembly, undo the pilot gas supply union on the right-hand side; undo the pilot holder retaining screws and gently lift the pilot away from the assembly.

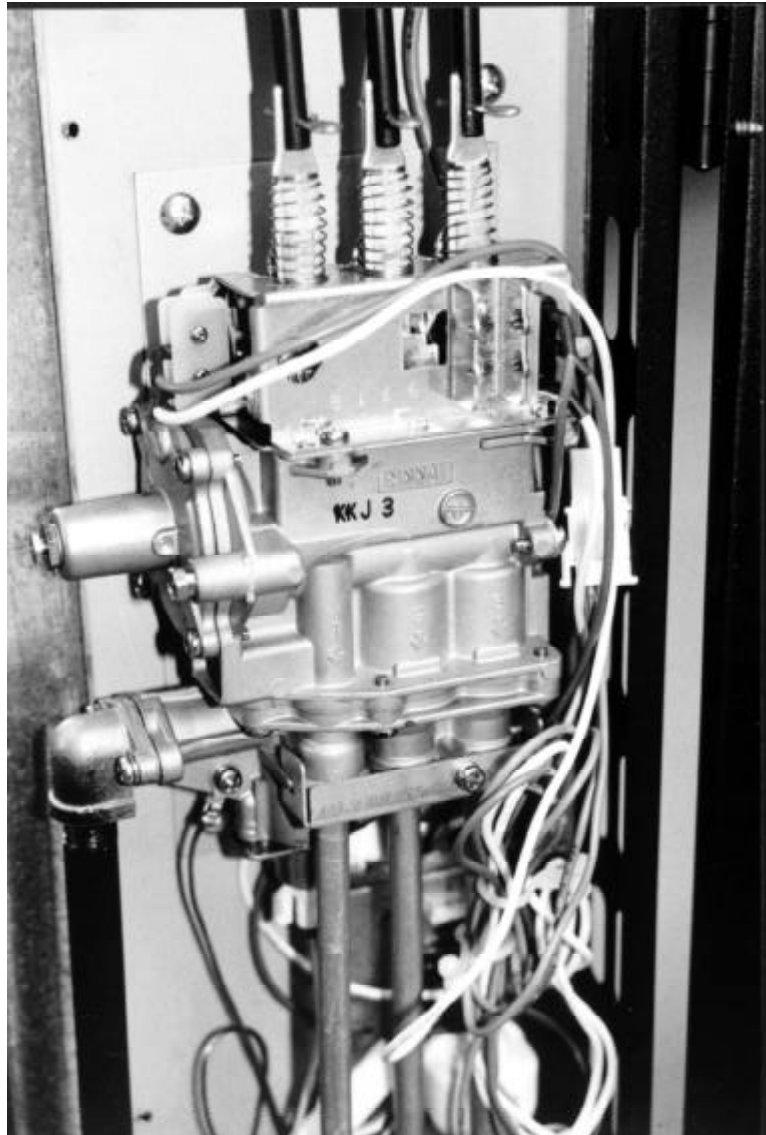


GAS CONTROL AND IGNITION ASSEMBLY

Access to the gas control can be gained by loosening of the two 3/8th securing screws on the gas control cover plate and swinging the cover plate away from the assembly.

Note: The regulator can be adjusted with the gas control cover in place as there is access to the regulator adjusting screw and the pressure test point.

To remove the gas control, remove the three snap pins securing the press-button control shafts to the gas control. Remove the gas pipe retaining plate held in place by a single screw, and gently lift the gas pipes away, taking care not to damage the seals. Unclip the thermocouple from the gas control. Remove the thermocouple retaining screw, held in place on the gas control with one machine screw. Remove the two screws holding the gas control elbow to the gas control, and remove the four screws securing the gas control mounting plate to the heater. Undo the microswitch wire from its plug assembly and the fan switch wire from the plug assembly. The gas control can now be lifted clear of the heater.



IGNITION ASSEMBLY

The ignition assembly is a non-serviceable part and should be replaced as an assembly. Access can be gained once the gas control supply pipes to the gas control have been removed. Remove the single screw holding the printed circuit board assembly to the bracket. Remove the earth screw and unplug the high-voltage ignition lead together with the main power lead to the circuit board. The circuit board can now be removed.

Replacement is the reversal of the above procedure.

TO CHECK BURNER PRESSURE

Turn control to 'OFF' position.

Test point is on the side of the gas valve.

Remove test point screw, attach manometer to test point, light heater, turn to high, and check pressure. Test point is on the side of the gas valve.

The regulator has been factory pre-set; before making any adjustments to the appliance regulator, check the supply pressure. Correct pressures are shown on the data plate.

If adjustments are necessary, regulator is situated on the front of the gas control.

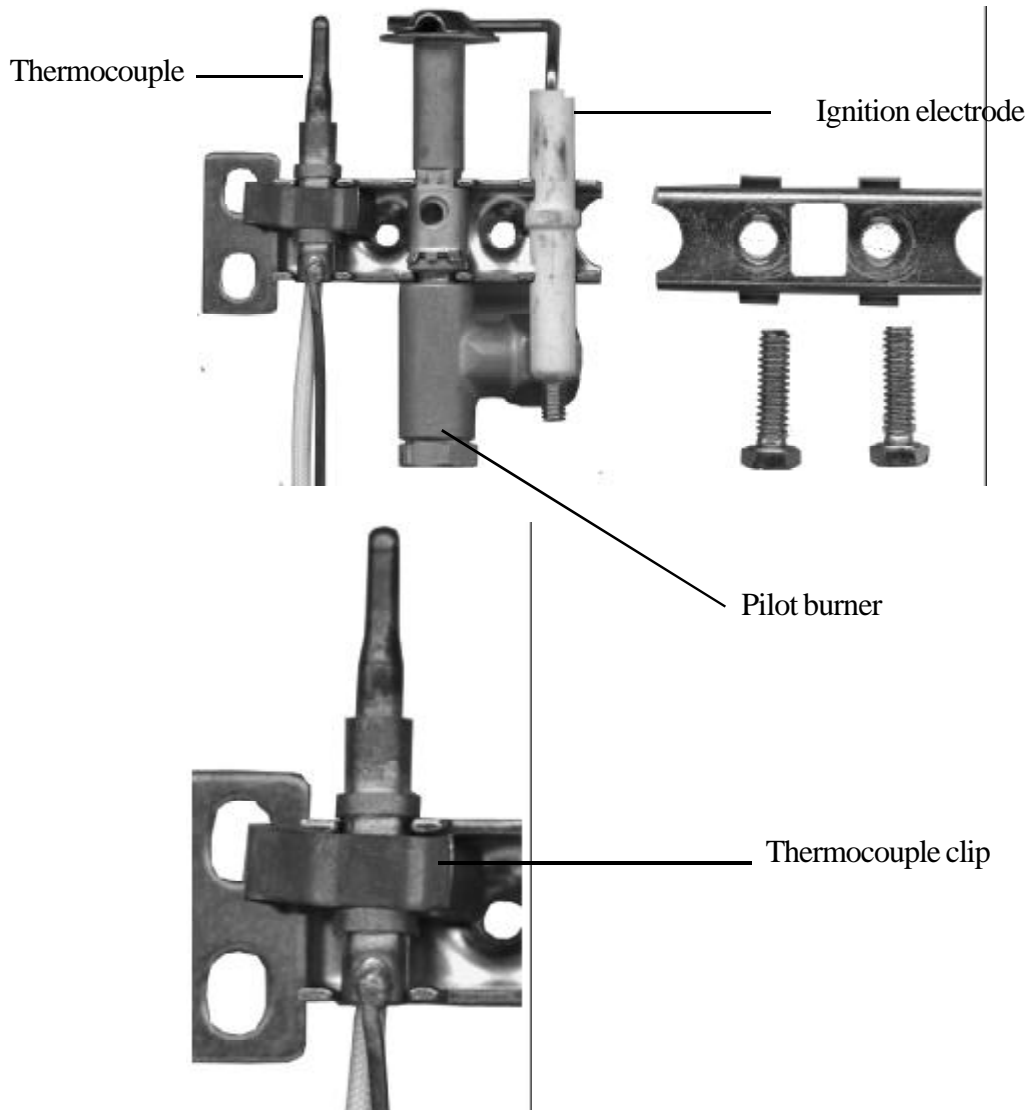
THE PILOT CANNOT BE ADJUSTED.



- After checking pressure, turn the unit off, remove manometer and replace test point screw.
- Turn the heater on and off a few times to check ignition.
- When you are satisfied that the heater is working correctly, re-assemble panels.
- The flames should be approximately 10 cm long on the central burner with yellow tips but with no sooting.
- The aeration is factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, contact your agent of Rinnai for advice.
- It may take approximately 20 minutes for the logs to achieve their final flame pattern and glow.

THERMOCOUPLE REMOVAL

Open the side panels. Remove the front panel glass and burners as described previously. Undo the two screws on the front of the pilot bracket assembly and remove the thermocouple together with thermocouple clip from the pilot holder assembly.



Note: The thermocouple clip acts as a spacer. It is important it is reassembled in the correct position as shown.

Remove the control panel cover and remove the three circlips holding the control rods, together with the three control rods. Access can now be gained to the screwed panel holding the overheat switch. Gently draw the overheat switch and thermocouple wire, together with the thermocouple end, through this opening, and clip the thermocouple from the lower end of the gas control and remove the screw holding the thermocouple return from the gas control.

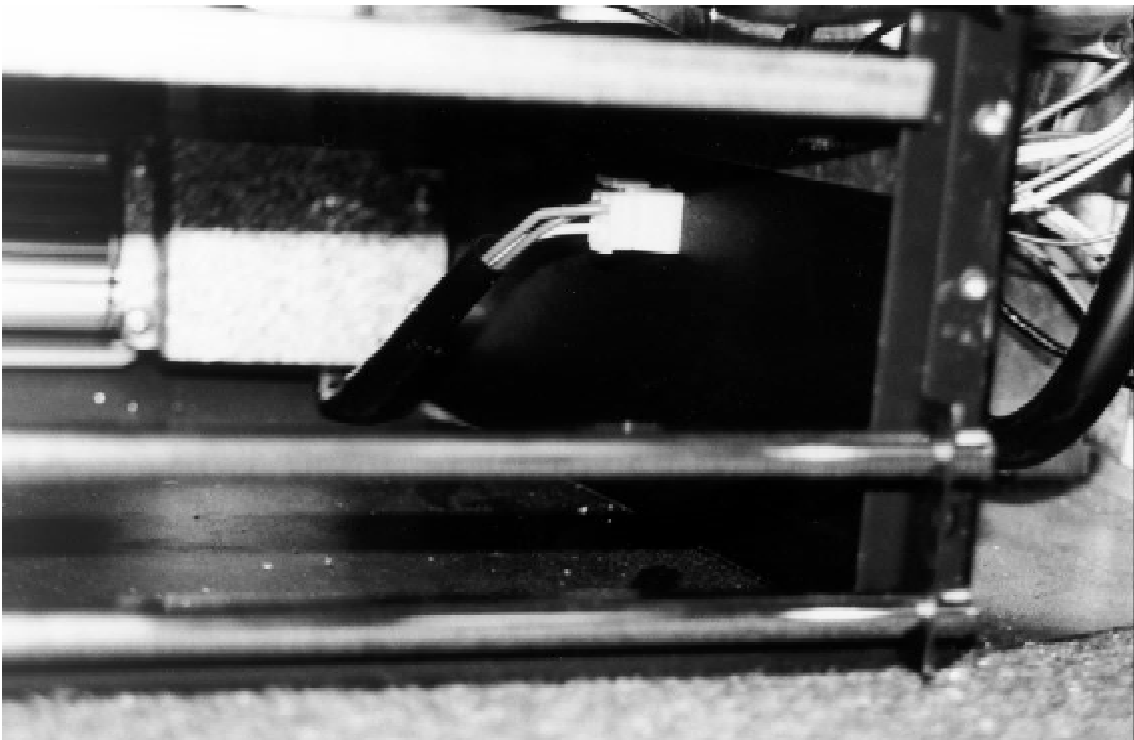
Replacement of the thermocouple is the reverse of the above procedure.

FAN REMOVAL

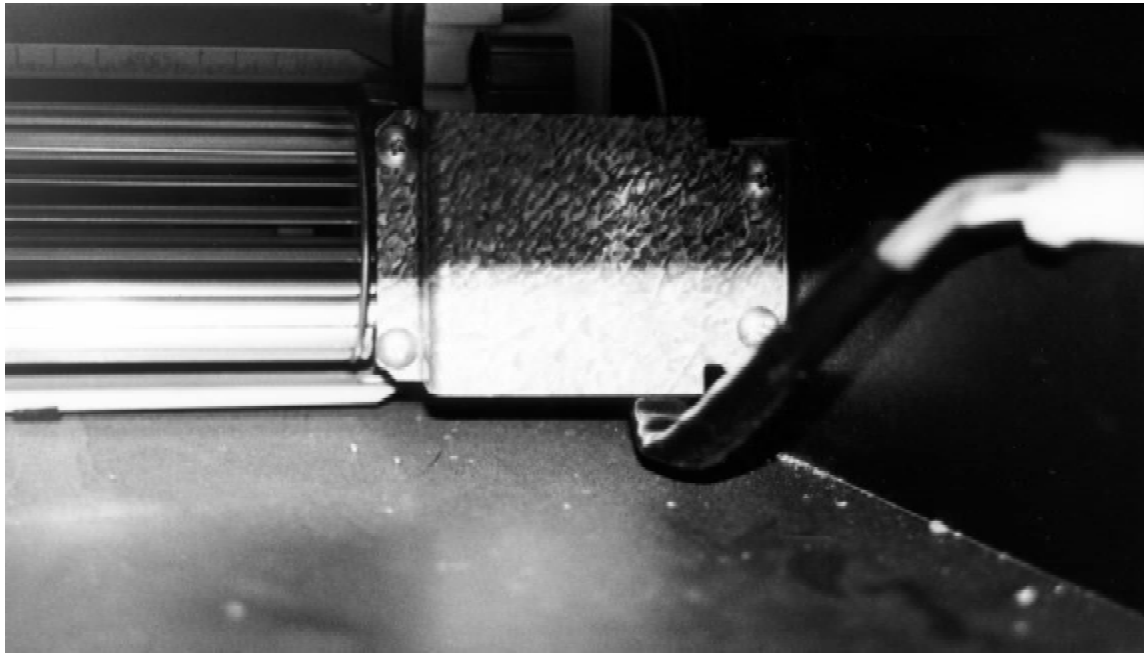
- Turn OFF the power
- Remove the 2 side panels
- Remove the 4 retaining screws holding the bottom panel and lift the panel clear



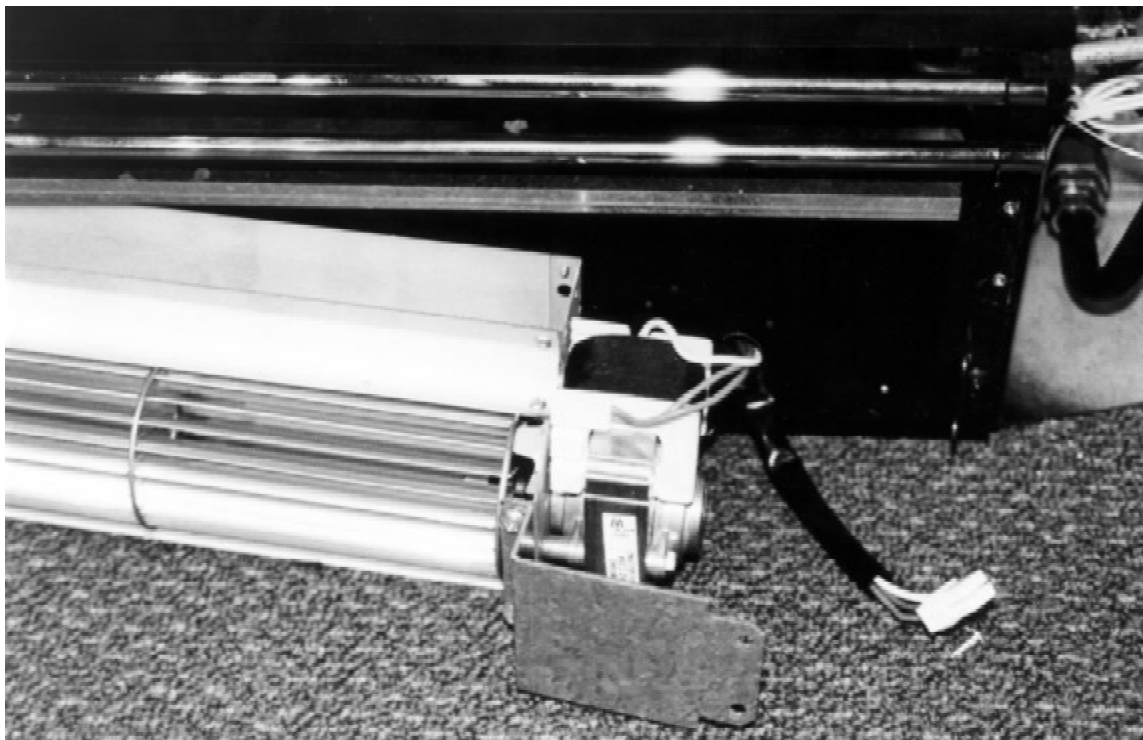
- Unplug the fan connection on the right hand side



- Remove the 4 retaining screws
- Secure the fan bracket to the heater housing, 2 per side



- Gently lift the fan assembly clear of the heater
- Reassembly is the reverse of the above



RINNAI INBUILT CLASSIQUE FIRE

Zero Clearance Kit



<u>Quantity</u>	<u>Description</u>
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1	Base Panel
2	Side Panel
1	Rear Panel
1	Top Panel
2	Base Support Runner
1	Base Trim (Black)
1	Decorative Surround L/H Panel (Black)
1	Decorative Surround R/H Panel (Black)
1	Decorative Surround Top Panel (Black)
1 pkt	Screws
1	Slip Socket

Instructions

Build Frame as per Figure 1

Zero Clearance Box Assembly / Installation

1. Lie Base Panel on floor with return fold upwards.
2. Stand Side Panels on inside of base panel with fold to the back as shown in Figure 2.
3. Slide Back Panel between Side Panels, ensuring Gas Inlet hole is in the bottom right corner.
4. Place Top Panel with Flue Outlet to the front.
5. Box should now be stable enough to stand on its own.
6. Using galvanised self-tapping screws, secure Panels in holes provided.
7. Run gas line to appropriate position.
8. Zero Clearance Box can now be secured to framing using the slotted holes provided.

9. Insert double-lined flue 150mm outer through flue opening provided, and complete Flue installation with Flue Cowl.
10. The inner flue should penetrate the box by 50mm. This is to ensure-
 - A) any residual heat in Zero Box is ducted away up the 150mm galvanised outlet cover.
 - B) When the Fire is installed, the slip collar can be lowered to connect the Fire spigot to the Flue.

Fit the slip socket to the inner flue.

Plastering and decorating can now be carried out.

Decorative Surround Installation

Refer Figure 5

Heater Installation

1. Attach Base Support Runners to Plinth as in Figure 2. Sit fire on Base Support Runners and slide Fire into position.
2. Unscrew and remove L/H and R/H Side Panels from fire.
3. Remove Electrical Cover Plate by loosening screws on front of Cover (refer installation book).
4. Connect gas line and test for leaks.
5. Screw Fire firmly to wall through securing holes provided.
6. Set gas pressure.
7. Replace Electrical Cover and Side Panels.
8. Operate Fire.

Zero Clearance Box Framing Dimensions

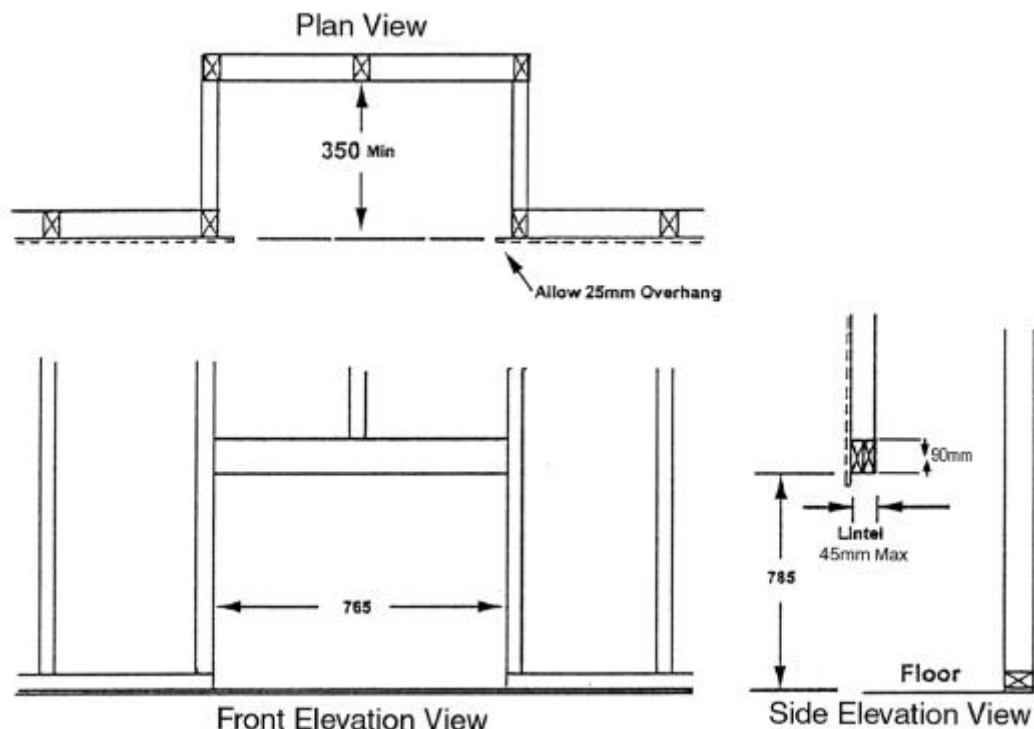


Figure 1

Zero Clearance Box for the Inbuilt Standard

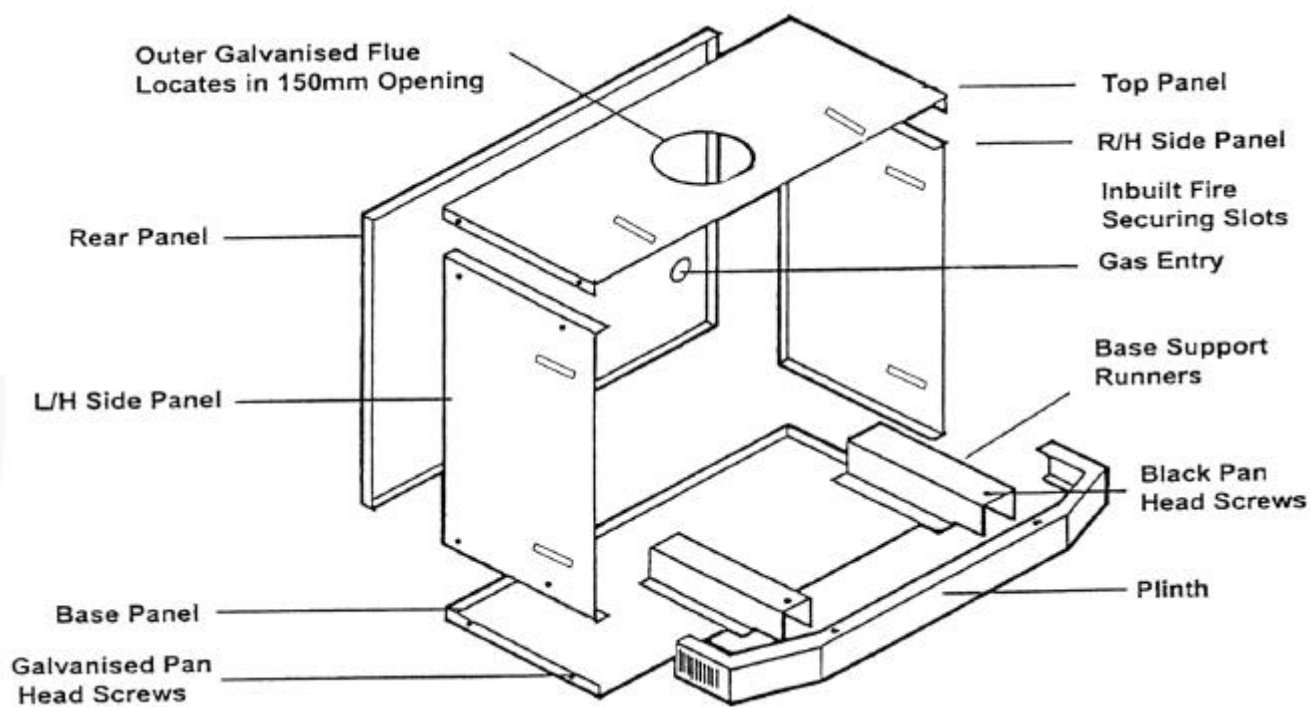


Figure 2

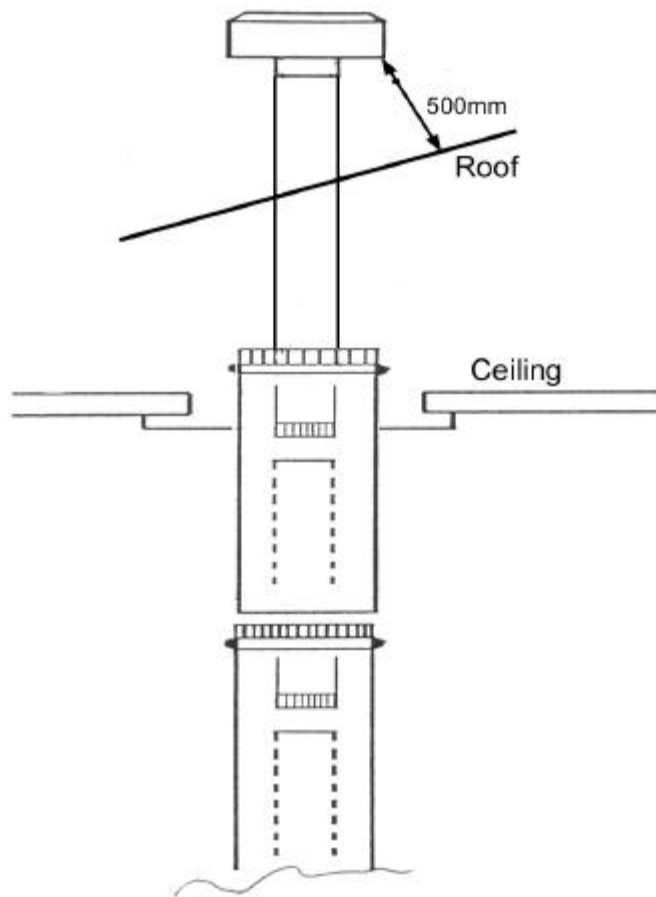


Figure 3

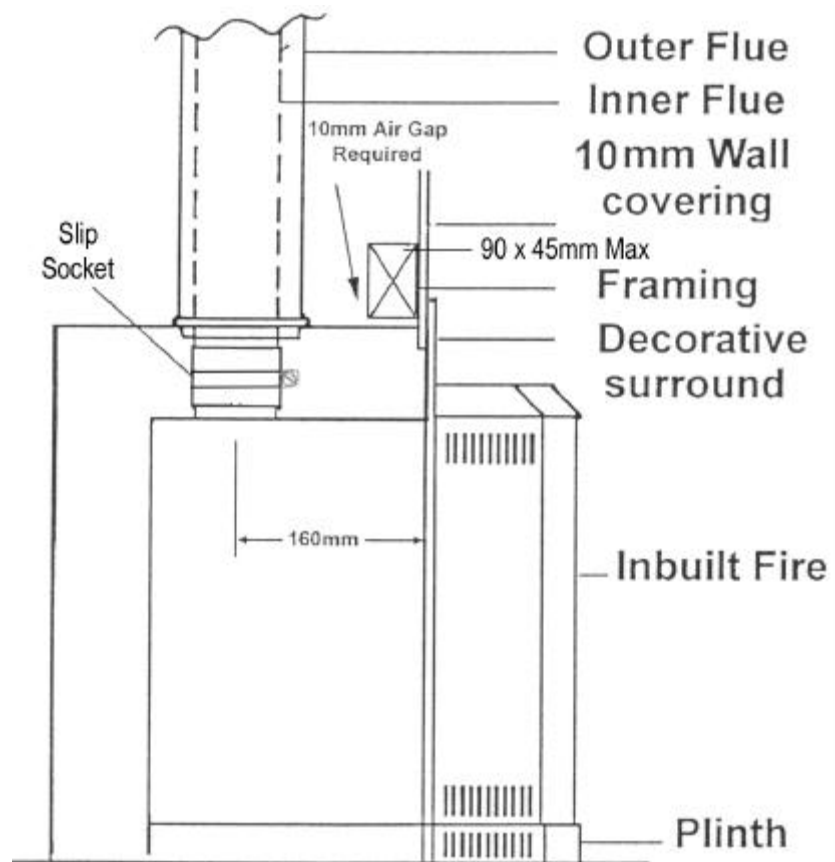


Figure 4

RINNAI INBUILT CLASSIQUE

Zero Clearance Decorative Surround

Assembly Instructions

Side Panel Position

- From the centre line of fire opening, mark a point on the wall 515mm each side of this line. This defines the outside position of the two Side Panels.
- Square and level the panels.

Securing the Surround Side Panels

- Select the securing slot in each Side Panel. Note: This is the smaller slot in each side. Screw the Side Panels to the wall.

Securing the Fire

- Insert fire into opening.
- Connect the Flue through the opening above the fire.
- Insert fire securing screws and screw the fire to the wall. Do not fully tighten-allow 20mm behind the fire in order to attach the Top Panel of the Surround
- Position the Top Panel of the Surround behind the Top Panel of the fire and secure the side of the Top Panel to the Side Panel with the 2 black screws provided.
- Fully tighten the fire into Surround and the wall.

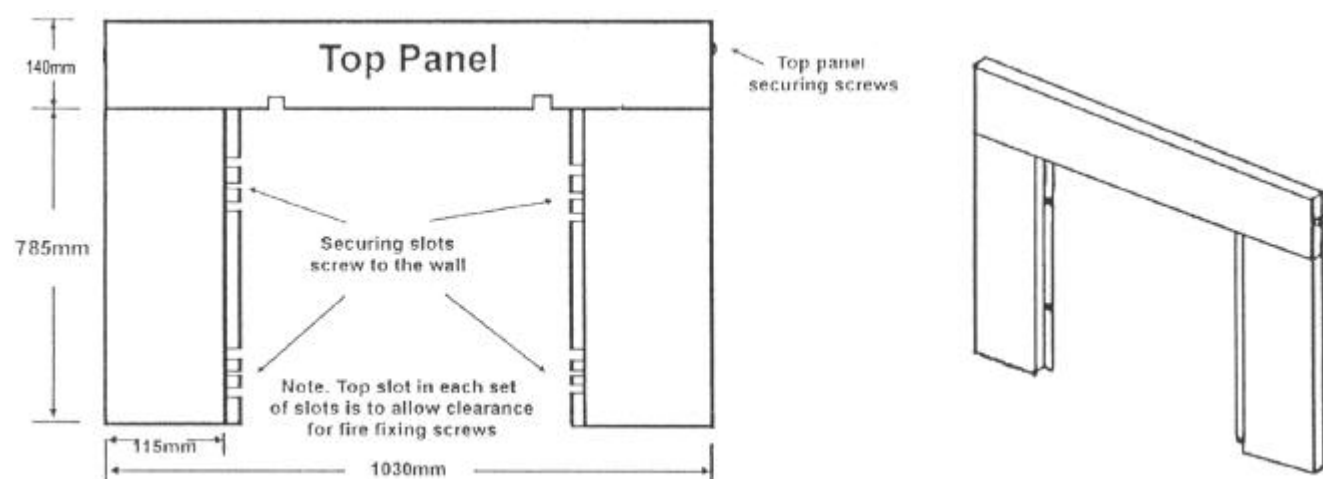


Figure 5