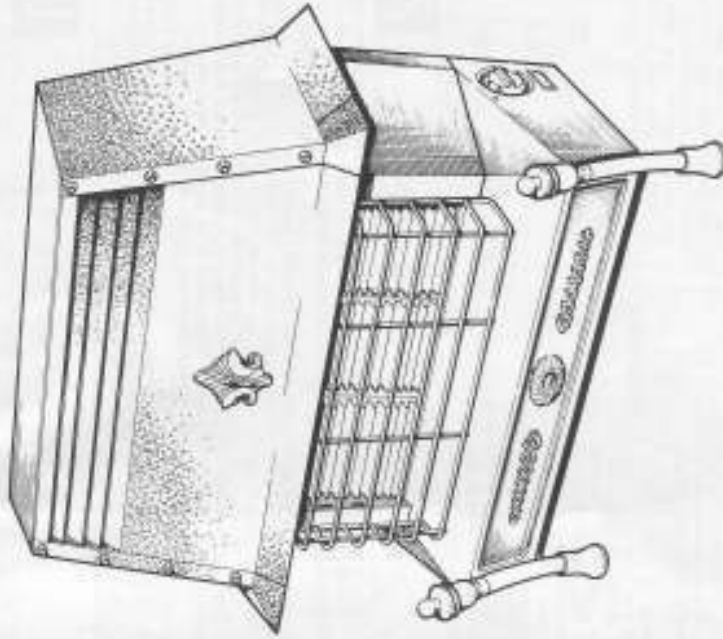


INSTALLATION & SERVICING INSTRUCTIONS

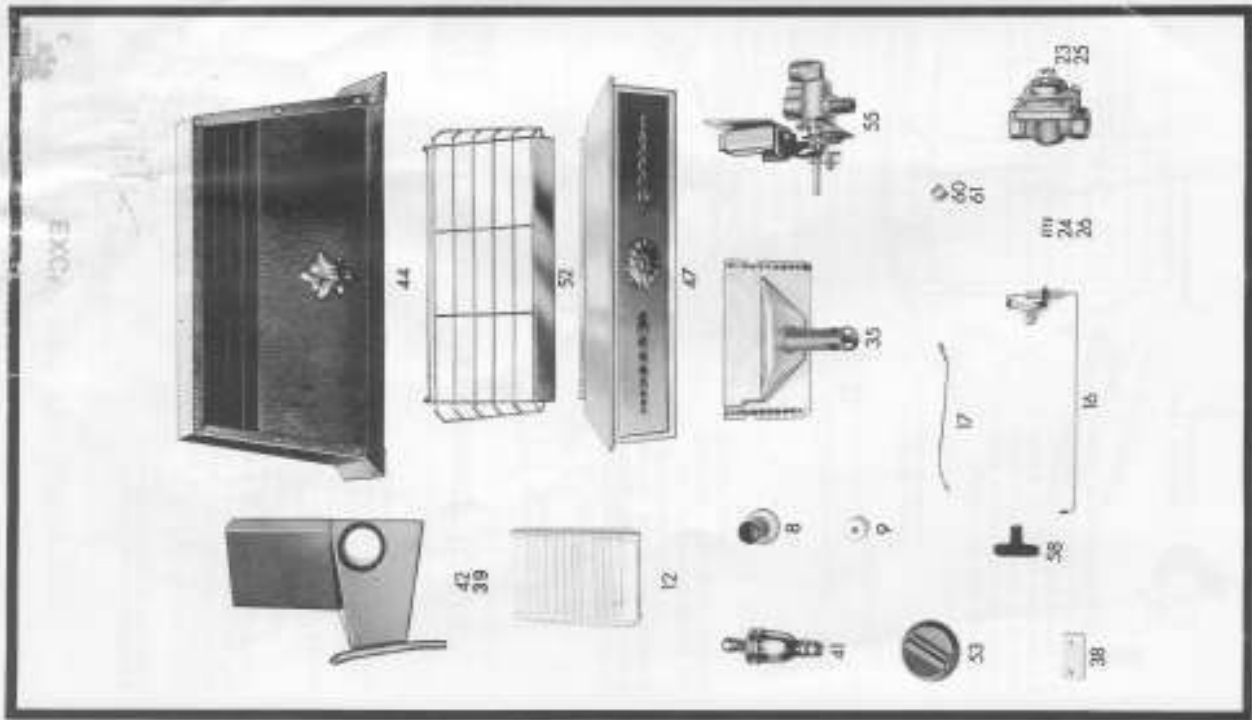
Windsor

RADIANT CONVECTOR GAS FIRE

This appliance should be installed by a qualified gas installer.



Parkinson Cowan Appliances



IMPORTANT—INSTALLATION AND SAFETY

This appliance must be installed in accordance with the applicable Building Regulations or Safety Regulations and the Building Regulations or Safety Regulations, respectively.

The flue is suitable for fitting to any conventional fireplace and being at least one storey high.

It is emphasised that pre-cast flues must be built in such a way that mortar joints between blocks are not extruded into the flueway and that, if raking blocks are used, they must be used according to the manufacturer's instructions. Mortar must not be allowed to drip down and accumulate on the naked portions.

CHECK CHIMNEY

Before fitting the flue the flue should be inspected to ensure —

1. That the chimney is not in any way obstructed. If necessary have the chimney swept particularly if solid fuel has been previously burnt.
2. That any dampers are removed or fixed in the open position.
3. That any underdraught openings in the fireplace are sealed.
4. That there is a free pull up the chimney when tested with a lighted match.
5. That the room has a reasonable supply of fresh air.

1 NOTES ON FITTING

The Windsor fire is not suitable for wall mounting. It must be fitted on a non-combustible hearth or hearth-slab of material at least 13 mm (½ in.) thick extending forward from the sides of the fireplace opening by a minimum of 305 mm (12 in.) and extending beyond the width of the fireplace opening by a minimum of 153 mm (6 in.) at each side.

Cerapoint must not be laid on the hearth or extended under the fire.

The flue only be fitted to a combustible clad wall, e.g. wood paneling, provided that the combustible material is removed from the rear of the flue such that the closure plate overlies the clad wall by a maximum of 13 mm (½ in.).

It is essential that any clad wall fireplace opening is inspected to ensure —

- (i) That the cladding fits snugly to the finished wall face; or any cavities are sealed off, to obviate excessive or leakage into the chimney which would render the flue ineffective.
- (ii) That the flue spigot projects adequately into the flueway. (Flue spigot extension pieces should be used for this purpose where necessary)
- (iii) That the closure plate is positively sealed to the finished wall face.

2 FITTING THE CLOSURE PLATE

A closure plate is supplied with the appliance. Where the flue is fitted to a precast flue then a cooler plate (not supplied) must be screwed onto the closure plate in the position shown in Fig. 1. The cooler plate can be made from 0.9 mm (20 gauge) aluminium. The relief air opening must be increased to 114 mm (4.5 in.) x 38 mm (1.5 in.). As shown in Fig. 1.

Fit the closure plate over the fireplace opening and ensure that it is centrally positioned. Thoroughly seal the closure plate edges in position with an approved adhesive tape. The cut-out in the bottom of the closure plate is the relief air opening and must be unobstructed to provide good ventilation in the room.

Test that an up-draught is available at the spigot hole by applying smoke, or a lighted taper, or a lighted match. If down-draught or lack of draught is found the appliance must not be fitted until a reliable flue updraught has been established by modifying or unblocking the flue way.

PARING THE FIRE

Unpack the fire according to the instructions on the carton top flap.

If the flue is more than 4.26 m (14 ft.) in height, the spigot restrictor must be clipped onto the top edge of the flue spigot so that it partly obstructs the outlet hole (Fig. 2).

Do not fit the spigot restrictor if:

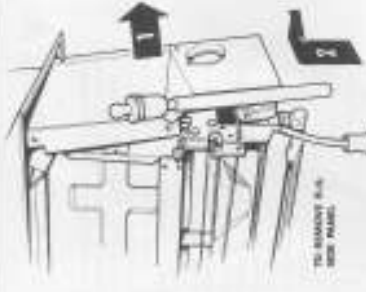
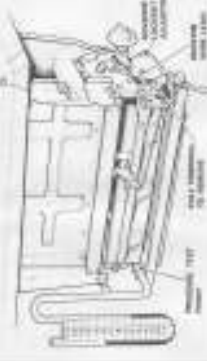
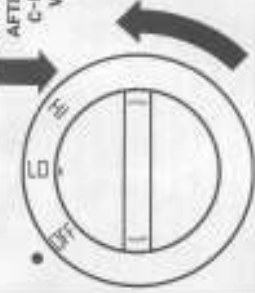
- (a) The flue is less than 4.26 m (14 ft.).
- (b) The flue is a 'precast' type.
- (c) The flue pull is suspected to be poor.

4 FIT THE FIRE AND CONNECT TO GAS

Remove the bottom bezel by sliding it upwards and free of its locations behind the decorative leg as shown.

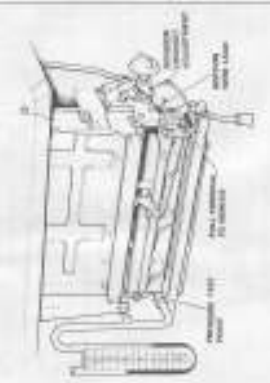
Take care not to scratch the legs when removing and replacing the front bezel.

Remove the right hand side panel by taking out the positive screws at the bottom of the right hand side reflector cheek and the two positive screws at the top and bottom back corners of the side panel, as shown in diagram.

c  TO REMOVE BURNER PRESSURE TEST GAUGE, FIRST PULL OUT THE TOP AND BACK OF THE RIGHT HAND SIDE PANEL AND THEN LIFT TO REMOVE, SEE DIAGRAM.	5 CHECK THE BURNER PRESSURE AND TEST FOR GAS SOUNDNESS  The correct burner pressure is shown on the chart at the end of these instructions. Remove the screw from the pressure test point, see diagram. Connect a pressure gauge to the test point. Support the right metal wire terminal with one hand and carefully remove the ignition wire lead. Turn on the fire to 'HI' slacken the governor locknut and adjust the pressure to give the correct pressure. Tighten up the locknut, check the pressure setting then turn the fire to OFF. Re-connect the ignition wire lead, remove the gauge and replace the pressure test screw. Test all gas joints before and at the tap, for soundness with the tap turned off. Use a soap solution.
d  TO TURN SLACKEN UNION NUT The gas supply terminates in a 1/2" B.S.P. union elbow and socket. Release the union nut to secure the elbow to the pipework from the right or left hand side.	6 CHECK IGNITION AND CROSS LIGHTING  IGNITION AFTER C-L-I-C-K WHEN TURNED TO HIGH A piezo-electric spark is used for ignition on this fire. The mechanism is operated by turning the control knob to the 'HI' position where there will be a C-L-I-C-K and the gas will ignite. Check that the burner cross lights after ignition and also that on turning to the 'LO' position only the centre burner is alight.
e  1/2" GAS PIPE SUPPLIED FOR CENTRE CONNECTION For left hand or centre connection, from the rear of the fire, an extra length of pipe is supplied. This pipe has a 1/2" B.S.P. tee piece with plug at one end, and therefore allows the gas inlet pipe to be fitted in the normal fashion. For left hand or right hand connection fit the pipework up to and including the union elbow. Then check the joints for soundness before lighting the fire.	7 FIT THE RADIANTS  Place the radiants in the fire by inserting their tops beneath the inside canopy, and raising them clear of the radiant support. Then gently lower each radiant into position. Ensure that the radiants are pushed back against the Heat Exchanger Panel.
f  LEVELLING FOOT ADJUSTMENT Place the fire up against the closure plate. Make sure that the fire support projects through the cut out provided for it in the closure plate. Level the fire by sliding up the decorative leg skirt and adjusting the support foot. Then tighten the union nut into the elbow.	8 FINAL CHECKS Check the fire is correctly fitted and the gas supply is correct. Check the fire is level and the support foot is adjusted. Check the fire is correctly fitted and the gas supply is correct. Check the fire is level and the support foot is adjusted.

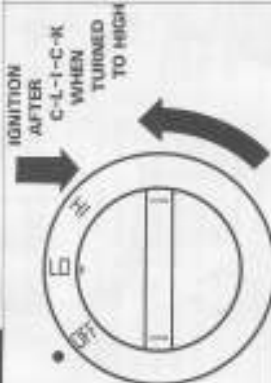


5 CHECK THE BURNER PRESSURE AND TEST FOR GAS SOUNDNESS



The correct burner pressure is shown on this chart at the end of these instructions. Remove the screw from the pressure test point, see diagram. Connect a pressure gauge to the test point. Support the rigid metal wire terminal with one hand and carefully remove the ignition wire lead. Turn on the fire to 'HI' slacken the governor locknut and adjust the governor to give the correct pressure. Tighten up the locknut, check the pressure setting then turn the fire to OFF. Re-connect the ignition wire lead, remove the gauge and replace the pressure test screw. Test all gas joints before and at the tap, for soundness with the tap turned off. Use a soapy solution.

6 CHECK IGNITION AND CROSS LIGHTING



A piezo-electric spark is used for ignition on this fire. The mechanism is operated by turning the control knob to the 'HI' position where there will be a C-L-T-C-K and the gas will ignite. Check that the burner cross lights after ignition and also that on turning to the 'LO' position only the centre burner is alight.

7 FIT THE RADIANTS



Place the radiants in the fire by inserting their tops beneath the inside canopy, and raising them clear of the radiant support. Then gently lower each radiant into position. Ensure that the radiants are pushed back against the Heat Exchanger Panel.

8 COMPLETE THE FITTING



Replace the right hand side panel and Bottom Bezel by reversing the action in Section 4. Fit the Dress Guard by passing the top of the dress guard under each the canopy; then locate one of the fixing tags in the chrome reflector disk, and spring home the other tag in the opposite disk. Ensure that the user understands the User's Instructions and in particular can turn the fire on and off correctly.

9 TEST FOR SPILLAGE



Close all doors and windows in the room. Light the fire and leave full on for ten minutes. Check that the products of combustion are not spilling into the room by holding a cold mirror above the front edge of the canopy. The mirror should not cloud over if the combustion products are being cleared. If clouding does occur then the flue is too restricted. This can be rectified by either: -

- removing the flue restrictor if fitted
- removing any other blockage in the chimney.

Re-check the flue for spillage. If spillage persists, disconnect the fire and report to your supervisor.

INJECTOR SIZES AND PRESSURES CONVERSION SET

GAS GROUP		1	4	5	Nat. Gas
INJECTOR SIZE (REF. MARK)		C	C	C	2
INCHES W/G	MIN. SUPPLY PRESSURE	3	3	3	18
	COLD SETTING PRESSURE	1.48	1.75	2.1	7
MILLI-BARS	MIN. SUPPLY PRESSURE	7.47	7.47	7.47	19.7
	COLD SETTING PRESSURE	3 BT	4.35	5.21	17.4

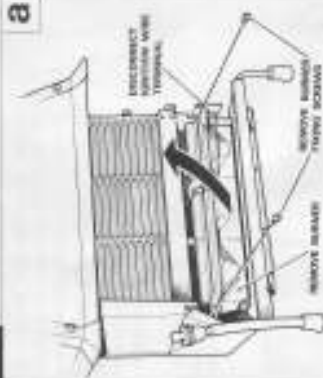
Injector sizes and pressures to give the correct heat input of 5.27 kW (18,000 Btu/hr.) are given in the table above. The figures relate to the appliance being set up. (The correct of this device must be well defined).

PARKINSON COWAN APPLIANCES LTD
BIRMINGHAM B33 9AD Drg. No. 43709/4



PLACING NOTES

REMOVAL OF BURNERS



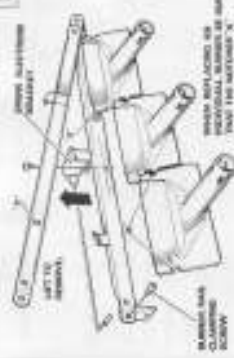
Remove the dress guard by swinging out the location tag on one reflector cheek and then pull the guard from the canopy and the other cheek. (See Section 4).

Removes the Bottom Bar and assigns hard-ide panel as in the Figure's instructions. (Section 4)

Support the rigid ignition wire terminal with one hand and carefully remove the flexible ignition wire lead. See installation instructions (Section 5).

Take out the two burner fixing screws and remove the burner assembly by pulling in the direction indicated.

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Exchange the individual burners if necessary by first removing the spark electrode centre bracket, and then loosening the positive screw in the back of the burner support. Take care to re-align the electrode locating wire as shown in Section E.

ALCOHOL
CONSUMPTION
AND
CANCER



REMOVAL OF MECHANISM



Turn off the gas supply to the burner. Remove the dress guard, the bottom, and the right hand burner assembly as shown in Figure 4. Disconnect the burner from the gas supply as detailed in Section A. Disconnect the inlet pipe at the unit. Remove the three pushdown screws which hold the mechanism and burner to the body of the fire; then pull the mechanism forward and towards the right hand side of the fire so that the pipe-work will not be caught on the case. When reassembling ensure that the tab on the left hand burner bracket locates in the slot provided. Tighten all joints for gas proofness.

DISMANTLING OF DUTY-FREE ZONE

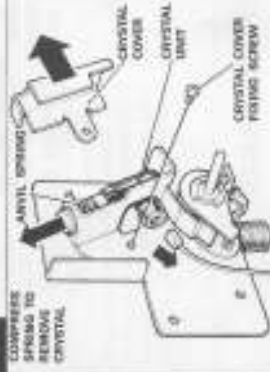


Turn off the engine and disconnect the battery. Turn the ignition key to the OFF position then remove the three screws that secure the front and right side body panel as in Section A. Disconnect the antenna wire from the right metal wire terminal. Remove the flap knob, 15cc filler and the flap. Refer to the instructions, Section B. Take out the two slotted head screws which hold the top mounting bracket, remove the side of the H, H marker bracket and then remove the two chassis head screws which hold the spindle assembly onto the spindle assembly compartment. Remove the spindle assembly completely with mounting plate and back spring and remove the flap plug carefully. The tap can now be dismantled and re-assembled if necessary using technique 1122. Spruce or Schlegel's Pre-stressed Enlarger can be used to enlarge the hole. Ensure that the hole is reamed with the side of the tap held on the right hand side and held on the left hand side and check that the roll pin on the spindle is pointing downwards so that the spindle axle sits well line up with the plug.



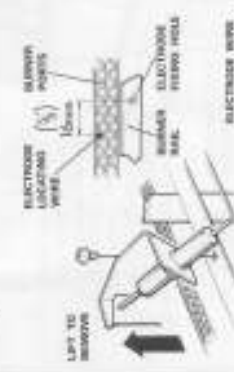
Test all joints for gas seepage.

EXCHANGE OF IGNITION CRYSTAL



After taking off the Dross Guard, Bottom Board and right hand side panel as before, remove the auxiliary screw which holds the metal cover over the black plastic crystal unit. Take off this cover and disconnect the spring wire lead from this unit. Compress the metal spring next to the crystal unit and remove the crystal unit. Reverse the procedure to fit the new crystal unit. Ensure that the curved end of the crystal unit is down.

EXCHANGE OF SPARK ELECTRODE



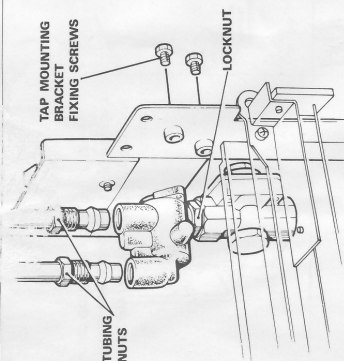
Remove the burner assembly as discussed in Section A.

Remove the secondary adjustment screw which holds the spark electrode bracket to the burner support channel. Carefully slide this unit free of the burner, at the same time releasing the electrode wires from the insulator at the R.H. end of the Burner Unit. See Diagram and start's instructions.

Reverse this procedure to replace the spark electrode bracket, ensuring that the locating pins are carefully fitted down the back row of burner ports.

SPARK ELECTRODE GAP (140⁺-020)"/>

CHANGE OF TAP UNIT



Remove the gas mechanism and burner as in Section B. Remove the tap assembly mounting bracket onto the side of the R.H. Burner Bracket (see section C) and disconnect the ignition wire lead from the spark electrode (metal wire terminal). Carefully unscrew the two hexagonal tubing nuts (ensure that the olives are in position). Loosen the locknut between the governor and the tap and unscrew the governor. The complete tap unit is now replaced by reversing the procedure. The distance between the centre line of the governor and the tap spindle should be approx. 56mm (2.2"). Before replacing the front and R.H. side panels, test all joints for gas soundness.

SHORT SPARES LIST

Key No.	Drg. No.	Description	Qty.
8	51642	Leg Skirt	2
9	51587	Adjustable Foot	2
12	41151	Box Radiant	3
16	51421	Electrode and Bracket	1
17	27865	Ignition Lead	1
23	45781	L60 S.U.1 T.G. Governor	1
24	M.2176	Governor Spring T.G.	1
25	45782	L60S U.1. N.G. Governor	1
26	50690	Governor Spring N.G.	1
35	37411	Burner Module Assy	3
38	51646	Insulator	1
39	41625	Case Side L.H.	1
41	51692	Decorative Knob	1
42	41626	Case Side R.H.	2
44	45892	Case Canopy	1
47	41707	Case Bezel Bottom Assy	1
52	41708	Dressguard	1
53	51616	Tap Knob with clip	1
55	37381	Duplex Tap Assy - Piezo	1
58	51427	Piezo Element (Brush Clevis 0137/001)	1
60	50989	Injector T.G. (Gas Groups 3, 4 and 5) "Ref Mark C"	3
61	51665	Injector N.G. "Ref Mark Z"	3

