

GAS PRESSURE SETTING AND DIAGNOSTICS INFORMATION

NOTE: For additional installation and commissioning information refer to Operation / Installation Manual



THIS APPLIANCE MUST BE INSTALLED, SERVICED AND REMOVED BY AN AUTHORISED PERSON DURING PRESSURE TESTING OF THE CONSUMER PIPING ENSURE GAS COCK SITUATED BEFORE UNIT IS SHUT-OFF. FAILURE TO DO SO MAY RESULT IN SERIOUS DAMAGE TO THE APPLIANCE AND POSSIBLE INJURY.

APPLIANCE OPERATING PRESSURES (kPa)

Table 1.

	Water Inlet Min.	Gas Inlet Min. / Max.		Forced Low		Forced High	
		Nat.G	Prop.G	Nat.G	Prop.G	Nat.G	Prop.G
REU-2425W	300	1.13 3.0	2.75 3.0	0.08	0.17	0.90	2.26

COMMISSIONING

With all gas appliances in operation at maximum gas rate, the flowing inlet pressure at the incoming test point on the Infinity should read 1.13 - 3.0 kPa on Natural Gas and 2.75 - 3.0 kPa on Propane Gas. If the pressure is lower, the gas supply is inadequate and the appliance unit will not operate to specification. Check gas meter, regulator and pipework for correct operation/sizing and rectify as required.

GAS PRESSURE SETTING

(Ensure gas pressure check under Commissioning has been completed first !)

The regulator is electronically controlled and factory pre-set. **Under normal circumstances it does not require adjustment during installation. Make adjustments only if the unit is not operating correctly and all other possible causes for incorrect operation have been eliminated.**

1. Turn 'OFF' the gas supply.
2. Turn 'OFF' 240V power supply.
3. Remove the front cover from the appliance.
4. Check gas type switches (Fig.1) are in the correct position (dip switch 1 of SW1 'ON' = NG, 'OFF' = LPG).

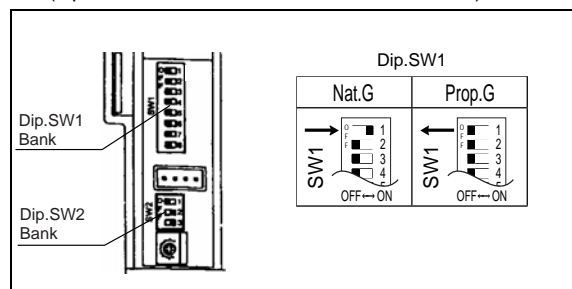


Fig. 1

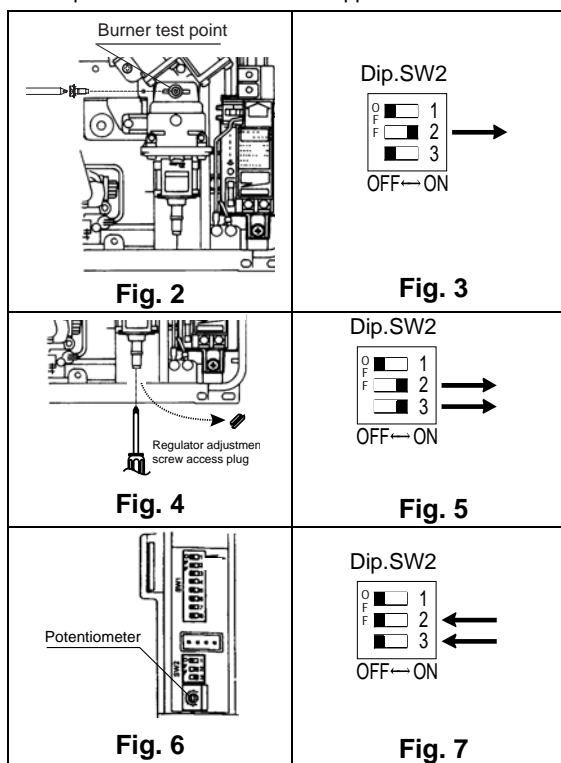
5. Attach pressure gauge to burner test point, located on the gas control. (Fig.2).
6. Turn 'ON' the gas supply.
7. Turn 'ON' 240V power supply.
8. If remote controllers are fitted, turn the unit 'ON' at the kitchen controller, select the maximum delivery temperature and open all available hot water taps fully including the shower.

CAUTION: Ensure building occupants do not have access to hot water outlets during this procedure.

9. Set the Infinity to 'Forced Low' combustion by setting No. 2 dip switch of the (SW2) set of dip switches to 'ON'. (Fig.3).
10. Check the burner test point pressure.
11. Remove rubber access plug and adjust the regulator screw on the modulating valve (Fig.4) as required in the pressure. Table above. Replace rubber access plug.
12. Lock the regulating screw on the modulating valve.
13. Set the Infinity to 'Forced High' combustion by setting dip switches No. 2 and 3 of the SW2 set of switches to 'ON'. (Fig.5). **Ensure maximum water flow !**
14. Check the burner test point pressure.
15. Adjust the high pressure Potentiometer (POT) (Fig. 6) on the Printed Circuit Board (PCB) as required to the pressure shown in Table 1.

IMPORTANT: Set dip switches 2 and 3 on the SW2 to 'OFF' to return the appliance to 'Normal' combustion. (Fig. 7).

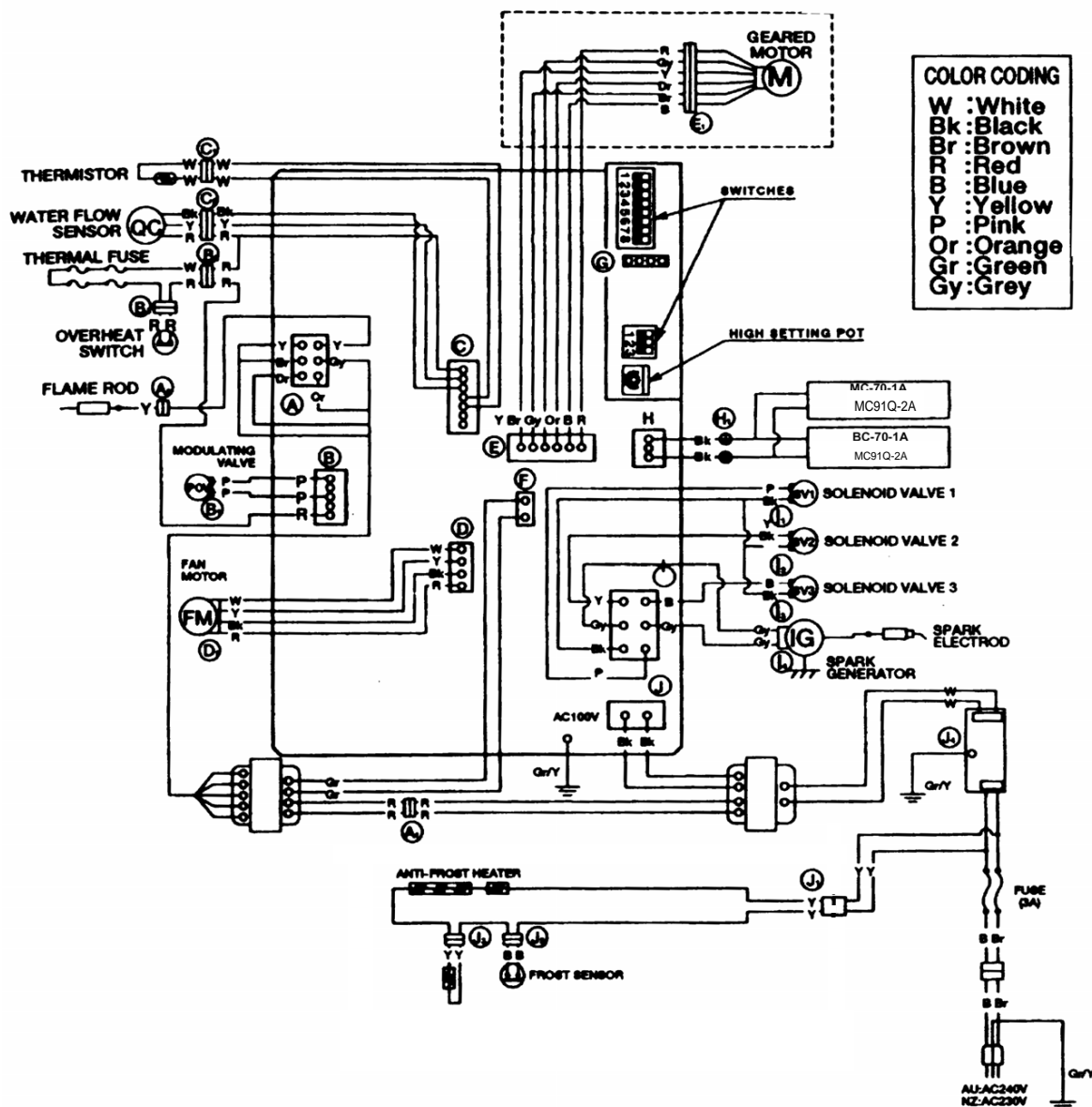
16. Close hot water tap.
17. Turn 'OFF' the gas supply and 240V power supply.
18. Remove pressure gauge, and replacing sealing screw.
19. Turn 'ON' the gas supply and 240V power supply.
20. Operate unit and check for gas leaks at test point.
21. Replace the front cover of the appliance.



Note: 'ON' towards right, 'OFF' towards left.

REU-2425W

CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



FLOW CHART NO.	COMPONENT	MEASUREMENT POINT	WIRE COLOUR	NORMAL VALUE
①	SURGE PROTECTOR	J4	B-Br	AC207~264V
②	REMOTE CONTROL	H1	Bk-Bk	DC10~13V
③	WATER FLOW SENSOR	C2	R-Bk Y-Bk	DC11~13V DC2~10V
④	FAN MOTOR	D	W-Bk	DC2~9V
⑤	FLAME ROD	A2	Y-EARTH	AC100~160V ABOVE DC1μA
⑥	THERMISTOR	C1	W-W	15°C 11.4~14.0kΩ 30°C 6.4~7.8kΩ 45°C 3.6~4.5kΩ 60°C 2.2~2.7kΩ 105°C 0.6~0.8kΩ
⑦	THERMAL FUSE	B2	W-R	BELOW 1Ω
⑧	OVERHEAT SWITCH	B3	R-R	BELOW 1Ω
⑨	SPARK GENERATOR	I4	Gy-Gy	AC90~110V
⑩	SOLENOID VALVE 1	I1	P-Bk	DC80~100V 0.9~1.3kΩ
⑪	SOLENOID VALVE 2	I2	Y-Bk	DC80~100V 1.3~1.9kΩ
⑫	MODULATING VALVE	B1	P-P	DC0.5~25V 60~100Ω
⑬	SOLENOID VALVE 3	I3	B-Bk	DC80~100V 1.3~1.9kΩ
⑭	GEARED MOTOR	E1	R-B Or-Gy	DC11~13V

TRANSFORMER VOLTAGES AND RESISTANCE

CN	WIRE COLOUR	NORMAL VALUE
A1	R-R	AC90~110V 15~21Ω
F	Gr-Gr	AC16~20V 6~10Ω
A	Or-Or	AC13~30V 1.4~1.8Ω
A	Br-Gy	AC30~50V 6~10Ω
A	Y-Gy	AC180~220V 0.4~0.6kΩ