

REU-V3232W / REU-V3232WC

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.

WARNING

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-V3232W / REU-V3232WC	180	1.13 3.0	2.75 3.0	0.18	0.35	0.74	1.76

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 !)

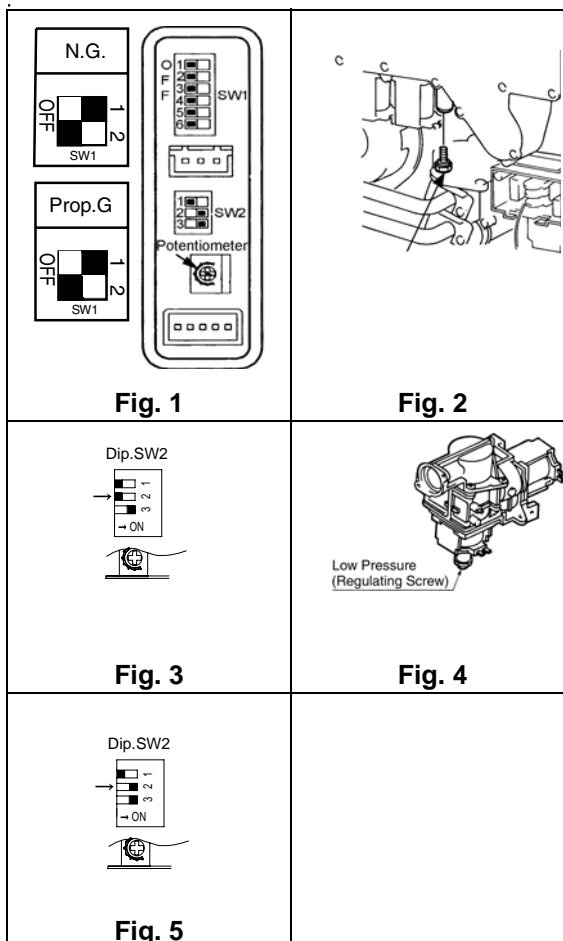
The regulator is electronically controlled and factory pre-set. **Under normal circumstances it does not require adjustment during installation. Make adjustments only if the unit is not operating correctly and all other possible causes for incorrect operation have been eliminated.**

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 (top set SW1 of switches).
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 full 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 bottom (SW2) set of dip switches to 'ON'. (Fig. 3).
10. Check the burner test point pressure.

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

IMPORTANT: Set dip switches No. 2 and 3 on the bottom (SW2) to 'OFF' to return the appliance to 'Normal' combustion.

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.



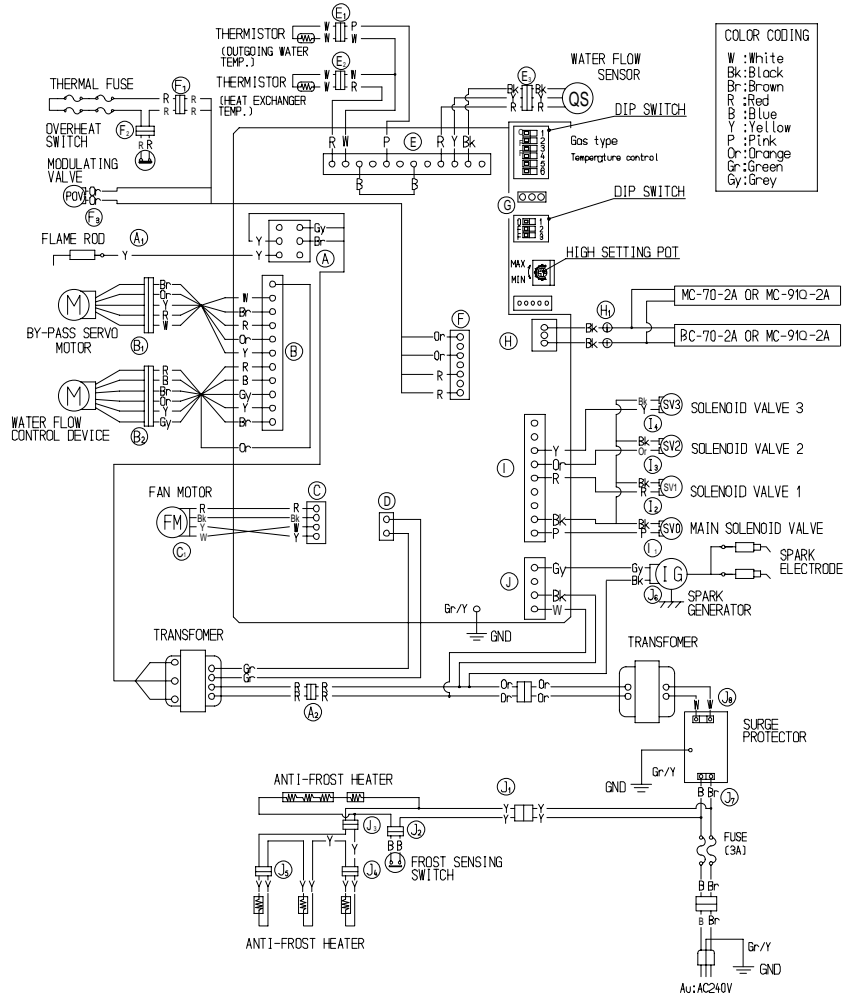
Legend (Black section indicates position of switch)

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

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CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



DIAGNOSTIC POINTS

COMPONENT	MEASUREMENT POINT	WIRE COLOUR	NORMAL VALUE	NOTE
① SURGE PROTECTOR	J ₁	B-Br	AC207~264V	
② WATER FLOW CONTROL DEVICE	B ₂	R-B	DC11~13V	OPERATE ELECTRICITY
		Gy-Or	DC11~13V	CONTROL ELECTRICITY
		Gy-Y	BELOW DC1V(LIMITER ON) DC4~6V(LIMITER OFF)	FULL OPEN POSITION
		Gy-Br	BELOW DC1V(LIMITER ON) DC4~6V(LIMITER OFF)	FULL CLOSE POSITION
③ BY-PASS FLOW CONTROL DEVICE	B ₁	Br-W	DC2~6V	OPERATE CONDITION
		Or-W	15~35kΩ	
④ REMOTE CONTROL	H ₁	Bk-Bk	DC11~13V	
⑤ WATER FLOW SENSOR	E ₃	R-Bk	DC11~13V	ON2.4L/MIN (33Hz) OVER 1980PULSE/MIN
		Y-Bk GND	DC4~7V(PULSE 17~460Hz)	OFF 1.2L/MIN (23Hz) BELOW 1980PULSE/MIN
⑥ COMBUSTION FAN	C	W-Bk GND	DC2~9V	
⑦ FLAME ROD	A ₁	Y-BODY EARTH	60~360Hz	CHECK TERMINAL
			AC100~160V	NO FLAME CONDITION
⑧ MODULATING VALVE	F ₃	Or-Or	OVER DC1μA	FLAME CONDITION
			AC1.0~25V 70~90Ω	
⑨ OUTGOING THERMISTOR HEAT EXCHANGER OUTGOING THERMISTOR	E ₁ E ₂	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	
⑩ THERMAL FUSE	F ₁	R-R	BELOW 1Ω	
⑪ IGNITER	J ₆	Gy-Bk	AC90~110V	
⑫ MAIN SOLENOID VALVE	I ₁	P-Bk	DC80~100V 1.5~1.9kΩ	
⑬ SOLENOID VALVE 1	I ₂	R-Bk	DC80~100V 1.8~2.2kΩ	
⑭ SOLENOID VALVE 2	I ₃	Or-Bk	DC80~100V 1.8~2.2kΩ	
⑮ SOLENOID VALVE 3	I ₄	Y-Bk	DC80~100V 1.8~2.2kΩ	

TRANSFORMER VOLTAGES AND RESISTANCES

ON	WIRE COLOUR	NORMAL VALUE
A ₁	R-R	AC30~110V 12~21Ω
D	Gr-Gr	AC12~18V 2.4~4.3Ω
A	Br-Gy	AC30~50V 2.2~3.0Ω
A	Y-Gy	AC180~220V 300~530Ω