

HT114

Applies to models:

CPxO & OUH



How to: Set Up a Riello RGD Oil Burner



www.powrmatic.co.uk

+44 (0) 1460 53535
info@powrmatic.co.uk



Procedure



Note: ALL THE RELEVANT SETTINGS ARE DETAILED IN THE SPECIFIC HEATER O&M INSTRUCTION MANUAL

- Remove the burner cover by undoing the two screws either side of the housing.



- Adjustment of the first stage air damper position is carried out by setting the air damper.
- Loosen locknut (clockwise) and adjust by turning screw to the required setting as indicated on the adjacent scale. Once the setting is achieved, tighten locknut (anticlockwise).



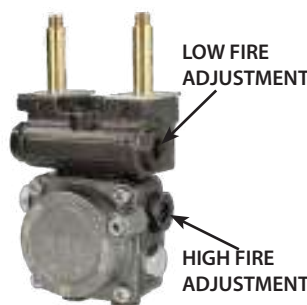
- Adjustment of the second stage air damper position is carried out by setting the air damper indicator.
- Slightly loosen locknut (clockwise) and adjust by turning screw till the required setting is shown level with the locknut. Once the setting is achieved, tighten locknut (anticlockwise) (may require re-adjust when the nut is locked down).



- Head pressure is achieved by adjusting a screw which moves a regulating rod. A test point on the burner casting allows reading the air pressure in the combustion head.
- Rotate the setting screw in a clockwise or anticlockwise direction until set point marked on the regulating rod is level with the outside plane of the head assembly.

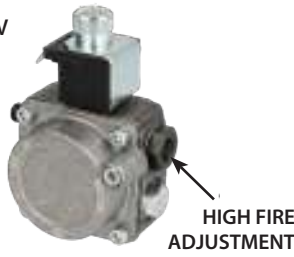


- High Fire pump pressure is adjusted by rotating the high fire adjustment screw clockwise (+ positive), anticlockwise (- negative).
- Low Fire pump pressure is adjusted by rotating the low fire adjustment screw clockwise (+ positive), anticlockwise (- negative).
- Re-check If any adjustments have been made.



FOR RG5D ONLY

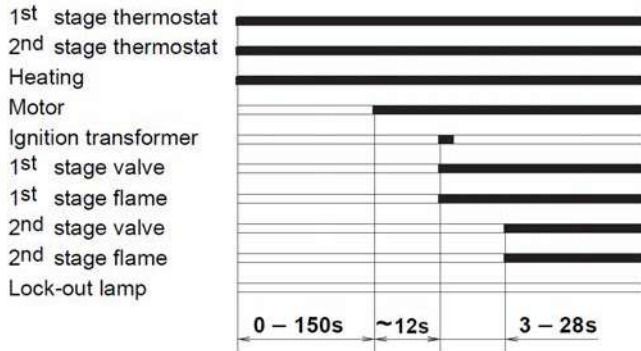
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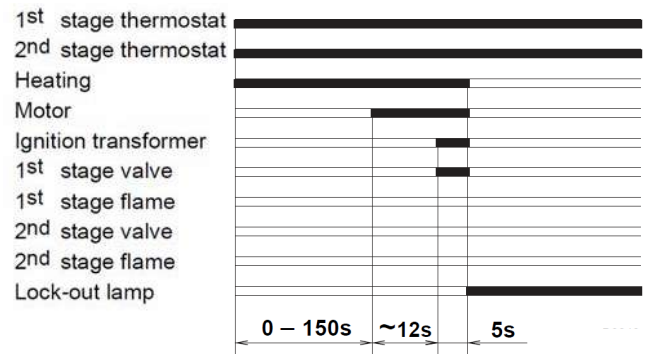
Correct operational start-up

- 0s Start of heat demand.
Burner begins the ignition cycle.
- 0s-12s Pre-purge with opened air damper
- 12s Ignition 1st stage.
- 15s-40s Ignition 2nd stage.

Normal Burner Start-Up Cycle



Lock-out, due to light failure



Lock-out due to ignition failure

- If the flame does not light within the safety limit (~ 5s) the burner locks-out.
- Lock-out is shown by a led on the appliance.
- MAXIMUM Total number of recycle trials is 3.
- To carry out the control box reset, proceed as follows:
 - Press the reset button for at least 1 second.
 - In the event of the burner not restarting it is necessary to check if the limit thermostat (TL) is closed.

FAULTS	POSSIBLE CAUSES	SOLUTION
The burner will not start when the adjustment thermostat closes.	Lack of electrical supply.	Check presence of voltage in the L1 - N clamps of the 7 pin plug. Check the conditions of the fuses. Check that thermostat limit is not lock out.
	The photoresistance sees false light.	Eliminate the light.
	Heater and start thermostats are faulty.	Replace them.
	The connections in the control box are wrongly inserted.	Check and connect completely all the plugs.
Burner runs normally in the prepurge and ignition cycle and locks out after 5 seconds ca.	The photoresistance is dirty.	Clear it.
	The photoresistance is defective.	Change it.
	Flame moves away or fails.	Check pressure and output of the fuel.
		Check air output.
Change nozzle.		
Burner starts with an ignition delay.	The ignition electrodes are wrongly positioned.	Adjust them according to the instructions of this manual.
	Air output is too high.	Set the air output according to the instructions of this manual.
	Nozzle dirty or worn.	Replace it.



HEATING DIVISION
Hort Bridge
Ilminster, Somerset TA19 9PS
Tel: 01460 53535
Fax: 01460 52341



Every effort is made to ensure accuracy at time of going to press. However as part of continued product improvement, we reserve the right to alter specification without prior notice.