

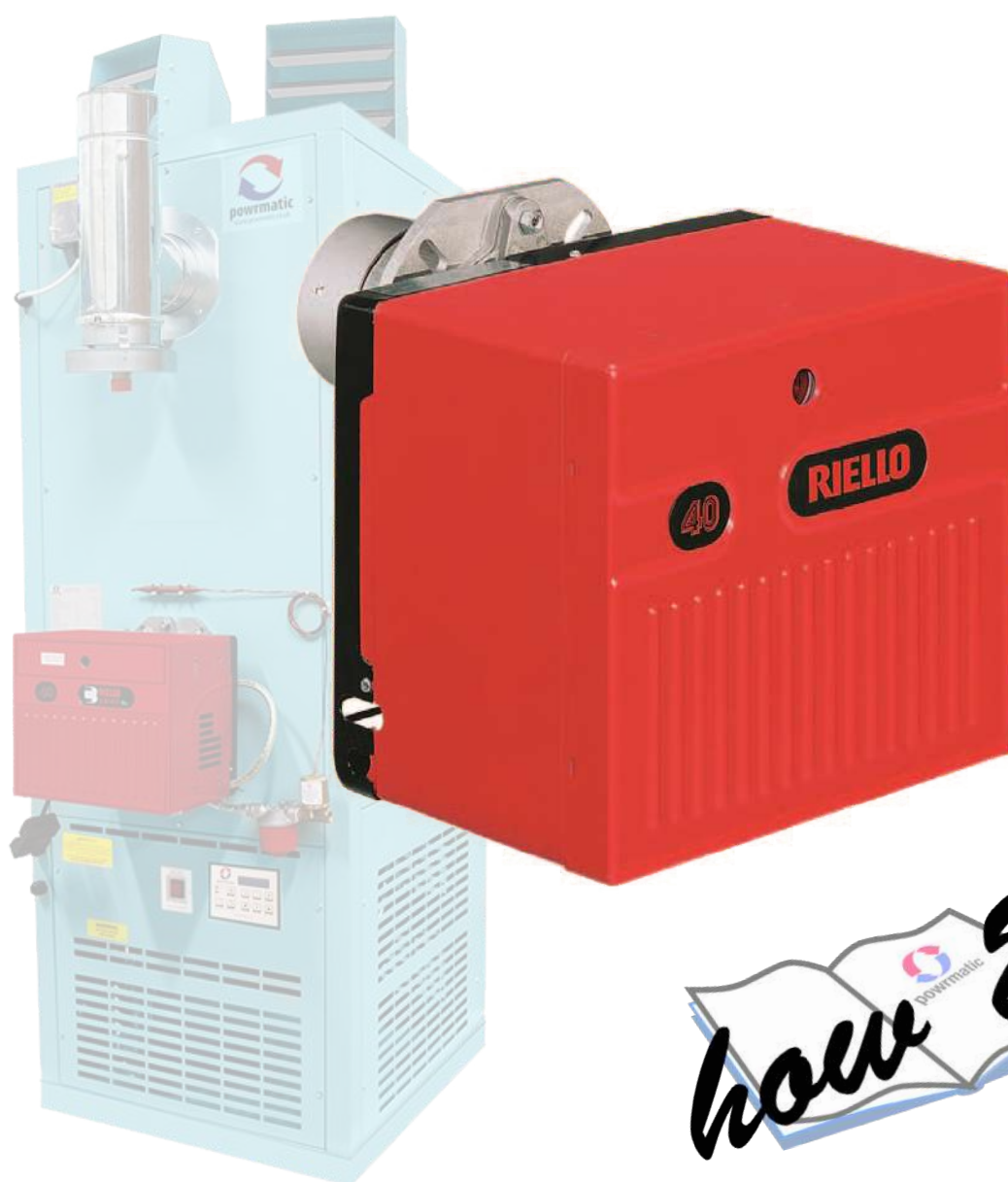
HT116

Applies to models:

CPxO



How to: Set Up a Riello R40 G Oil Burner



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Procedure

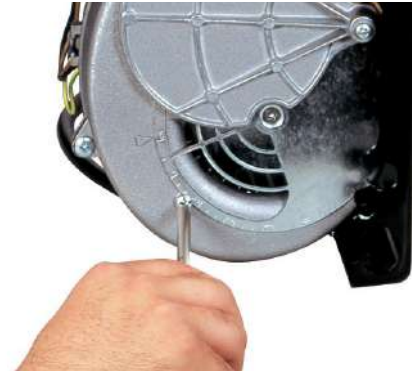
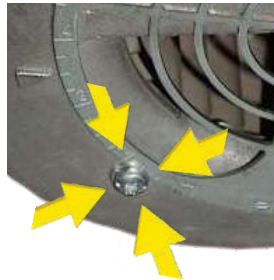


Note: ALL THE RELEVANT SETTINGS ARE DETAILED IN THE SPECIFIC HEATER O&M INSTRUCTION MANUAL

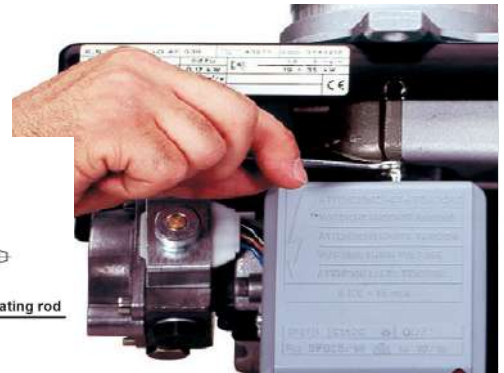
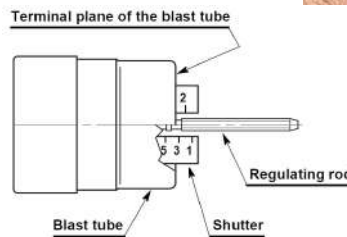
- Remove the burner cover by undoing a single screw on top of the housing and two screws either side.



- The air damper is operated by the actuator and assures that the air damper is fully open before the burner start cycle begins. The regulation of the air-rate is made by adjusting the fixed air damper flap.
- To adjust, loosen screw rotate the plate to the required setting as indicated on the adjacent scale. Once the setting is achieved, tighten screw.



- Head pressure is achieved by rotating a regulating rod within the burner head. A test point on the burner casting allows reading the air pressure in the combustion head.
- Using a 6mm spanner, rotate the rod to the right to increase, to the left to decrease until the set point mark is level with the outside edge of the coupling.



- Oil pressure gauge connection is the R/H bottom connection of the pump and can be attached by removing the connection plug.
- Adjust the pump pressure by rotating the adjustment screw clockwise to increase the pressure and anticlockwise to decrease.



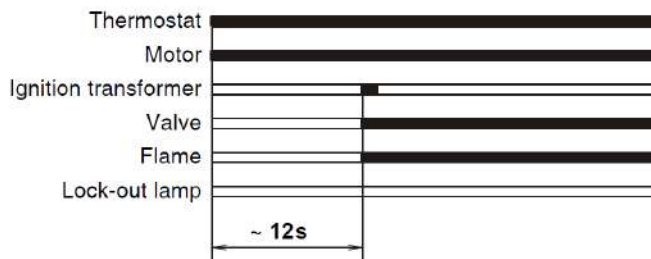
Oil Pressure Adjustment

Oil Gauge Test Port

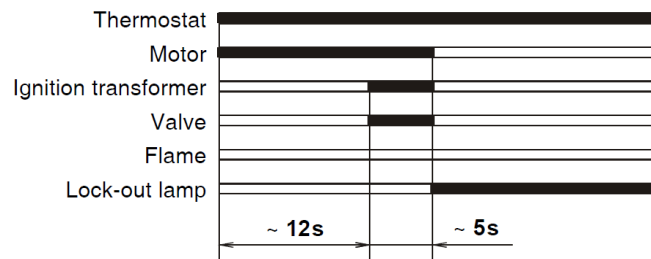
Correct operational start-up

0s Start of heat demand.
 Burner begins the ignition cycle.
 0s-12s Pre-purge with opened air damper
 12s Ignition.

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.
- To carry out the control box reset, proceed as follows:
- Press the reset button for at least 1 second. The burner restarts after a 2-second pause. 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 limit thermostat closes.	Lack of electrical supply.	Check presence of voltage in the L - N clamps of the control box.
		Check the conditions of the fuses.
		Check that safety thermostat limit is not lock out.
	The photoresistance sees false light.	Eliminate the light.
Burner runs normally in the prepurge and ignition cycle and locks out after 5 seconds ca.	The connections in the control box are wrongly inserted.	Check and connect completely all the plugs.
	The photoresistance is dirty.	Clean 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.	Check the coil of solenoid valve.	
	The ignition electrodes are wrongly positioned.	Adjust them according to the instructions of this manual.
	Air output is too high.	Set the air output.
Nozzle dirty or worn.	Replace it.	



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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.