

Burner Settings

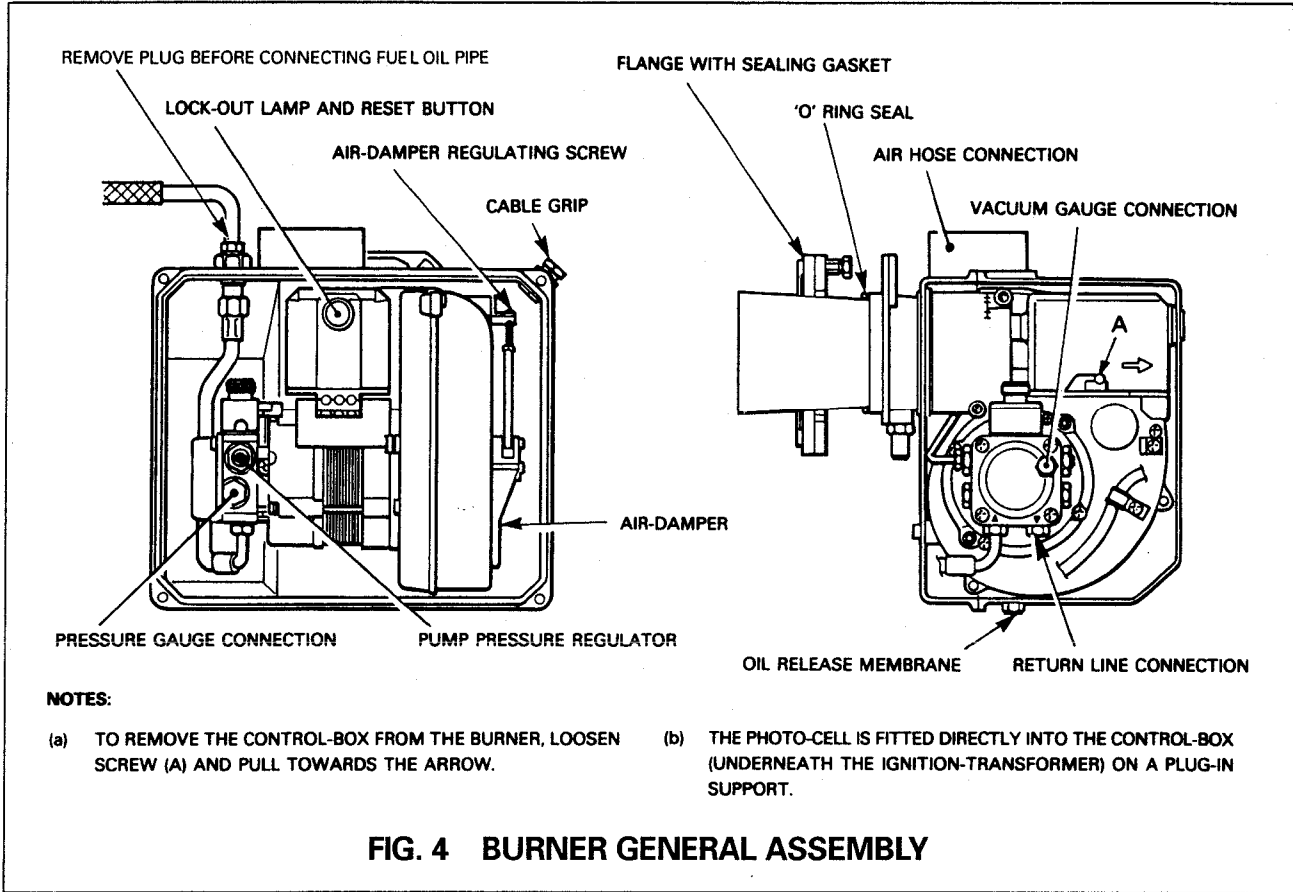


FIG. 4 BURNER GENERAL ASSEMBLY

BURNER SETTINGS

| Boiler | Riello Burner Model | Comb. Head | Danfoss Nozzle USG/H | Pump Pressure P.S.I. | Firing Rate ml/min | Air Setting | | CO ₂ % | Smoke No. | Flue Gas Temp. °C |
|----------------|---------------------|------------|----------------------|----------------------|--------------------|-------------|-----|-------------------|-----------|-------------------|
| | | | | | | CF | BF | | | |
| EUROSTAR 40-50 | G5 BF | 206971 | 0.5 x 80° S | 110 | 30 | 2.8 | 3.2 | 12.3 | 0 | 200 |
| EUROSTAR 50-60 | G5 BF | 206971 | 0.6 x 80° S | 110 | 35 | 3.8 | 4.2 | 12.4 | 0 | 215 |
| EUROSTAR 60-70 | G5 BF | 206972 | 0.65 x 80° S | 130 | 41.5 | 3.8 | 4.2 | 12.6 | 0 | 215 |
| EUROSTAR 70-90 | G5 BF | 206973 | 0.75 x 80° S | 120 | 47 | 3.6 | 4.0 | 12.0 | 0 | 200 |

Note: The EuroStar 70-90 is factory set for a mid output of 80,000 Btu/h. If the maximum output of 90,000 Btu/h is required, increase pump pressure to 150 psi and open air damper to 4.5.

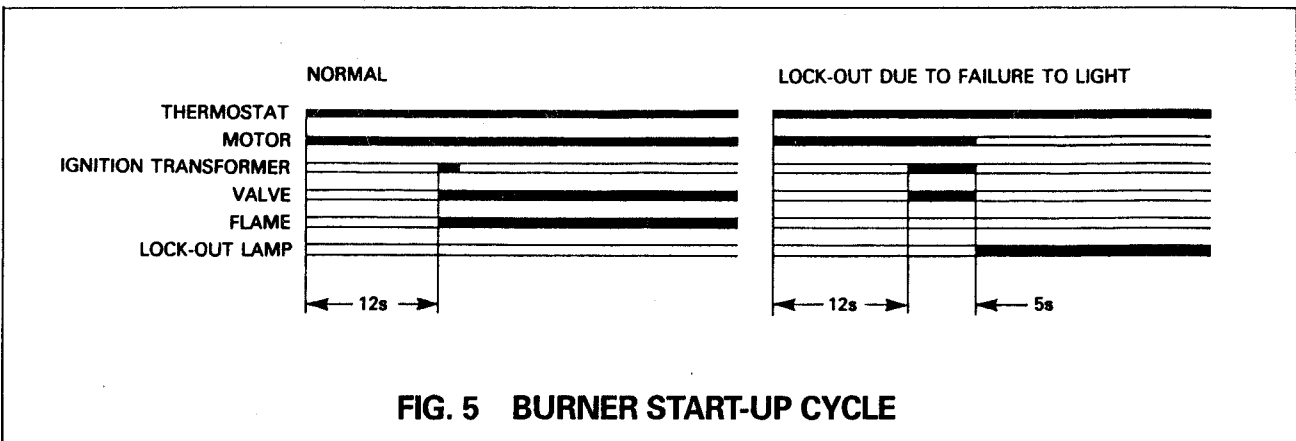
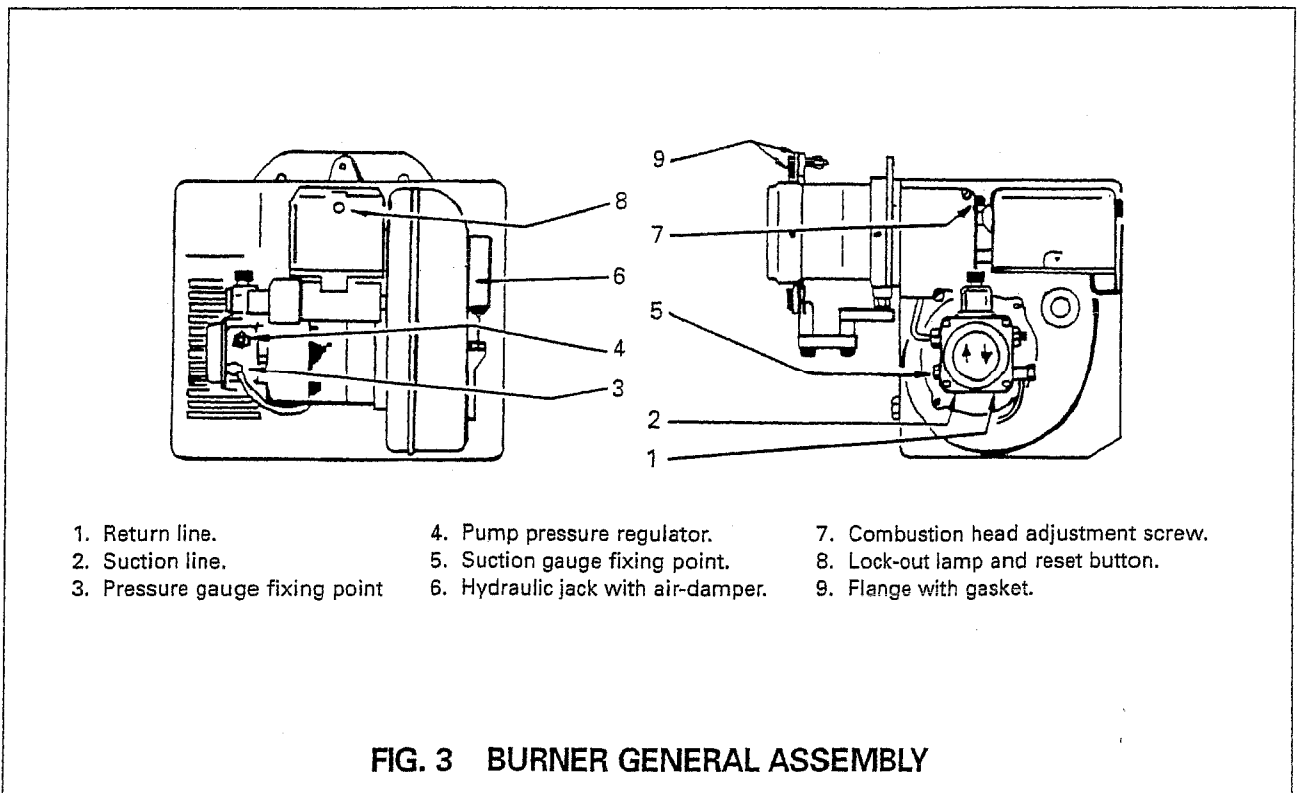


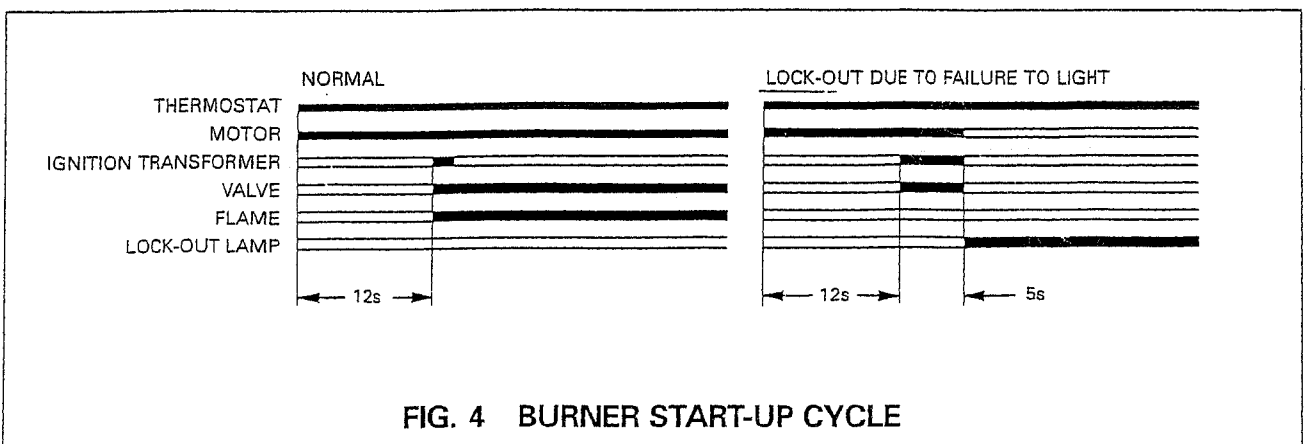
FIG. 5 BURNER START-UP CYCLE

Burner Settings



BURNER SETTINGS

| Boiler | Riello Burner Model | Comb. Head Setting | Nozzle Danfoss G.P.H. | Pump Pressure P.S.I. | Firing Rate ml/min | Air Damper Setting | CO ₂ % | Smoke No. | Flue Gas Temp. °C |
|-------------------------|---------------------|--------------------|-----------------------|----------------------|--------------------|--------------------|-------------------|-----------|-------------------|
| Eurostar 130-150 | RS40 | 1.5 | 1.35 60°S | 132 | 90 | 3 | 11.0 | 0 | 280 |
| Eurostar 170-250 | RS40 | 3.5 | 2.25 60°S | 132 | 150 | 4.5 | 11.0 | 0 | 300 |



BURNER SETTINGS

Air Damper Settings (Fig. 5)

The air damper is factory set to a nominal position to suit the boiler output. However, adjustment of the damper may be required to achieve the CO₂ level indicated in the Burner Settings table.

AIR ADJUSTMENT

To adjust the air damper, loosen the nut (B) turn the screw (A) to the required setting and relock nut (B).

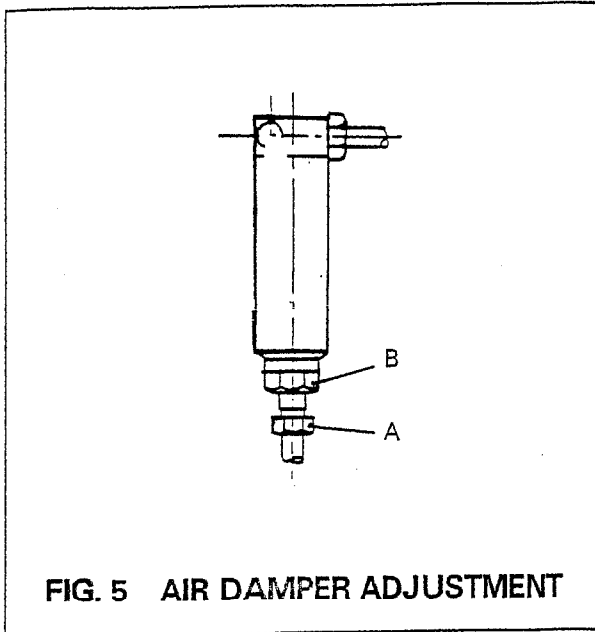


FIG. 5 AIR DAMPER ADJUSTMENT

COMBUSTION HEAD SETTING - with Blast Tube Removed

These are factory set. If adjustment is required rotate the regulating rod until the terminal plane of the blast tube is level with the set point - refer to Burner Setting table.

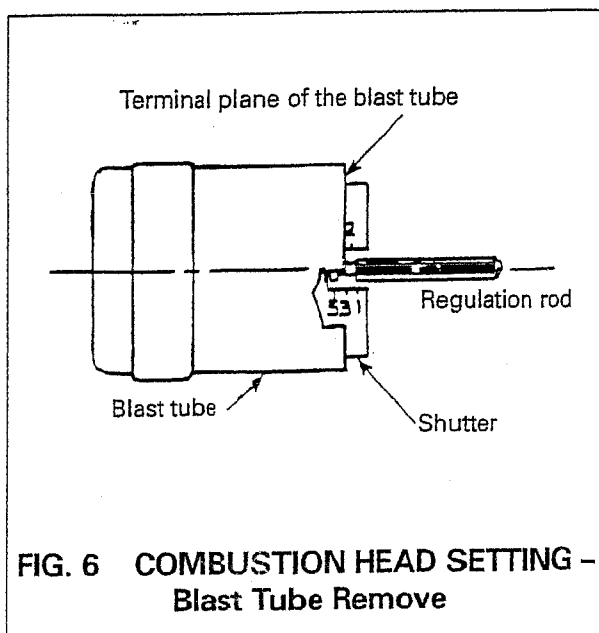


FIG. 6 COMBUSTION HEAD SETTING - Blast Tube Remove

In Fig. 6 the combustion head is set for an output of 2.25 GPH at 9 bar, whilst the shutter is level with set-point 3.5, as required by the Burner Setting table.

CONTROL BOX

To remove from the burner loosen screw 'A' and withdraw the box in the direction of the arrow Fig. 7.

The photo resistor is fitted directly onto the control box, beneath the ignition transformer, to remove unclip from support.

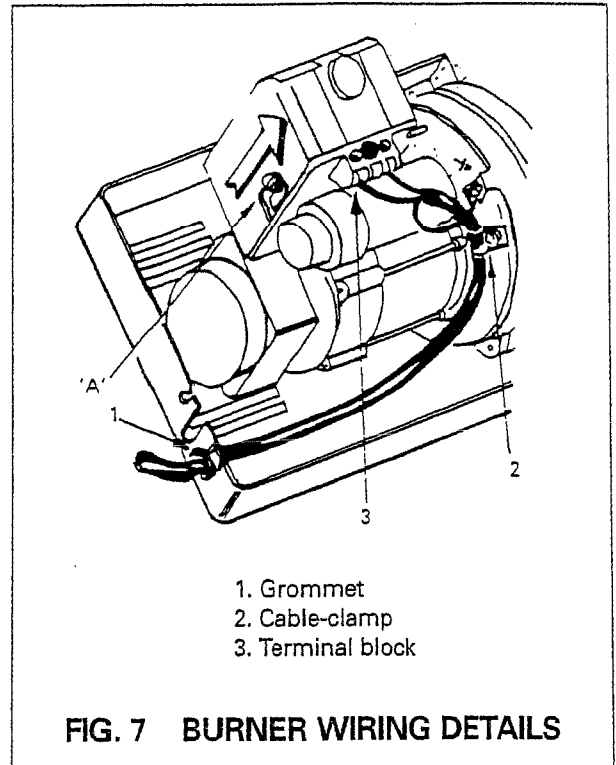


FIG. 7 BURNER WIRING DETAILS

IGNITION ELECTRODES

These are factory set but if adjustment is necessary remove combustion head and loosen screw 'A' on the electrode bracket and adjust as shown in Fig. 8.

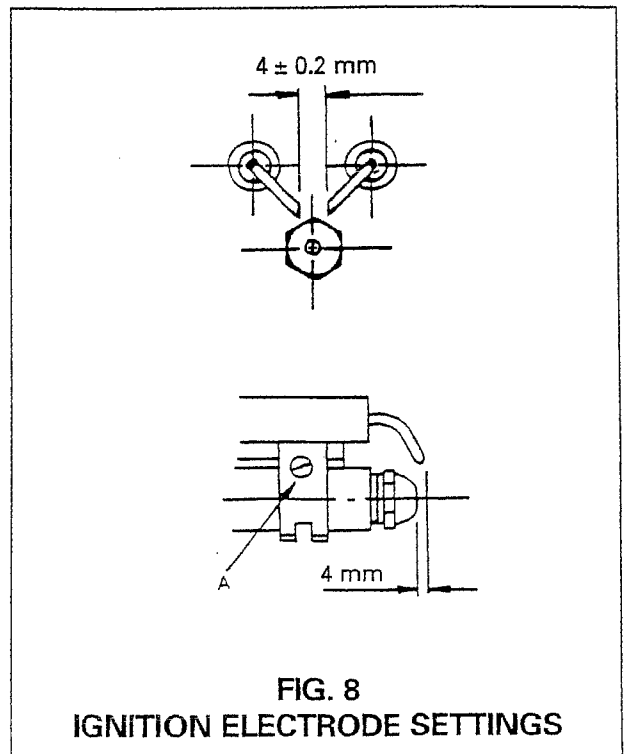


FIG. 8 IGNITION ELECTRODE SETTINGS