

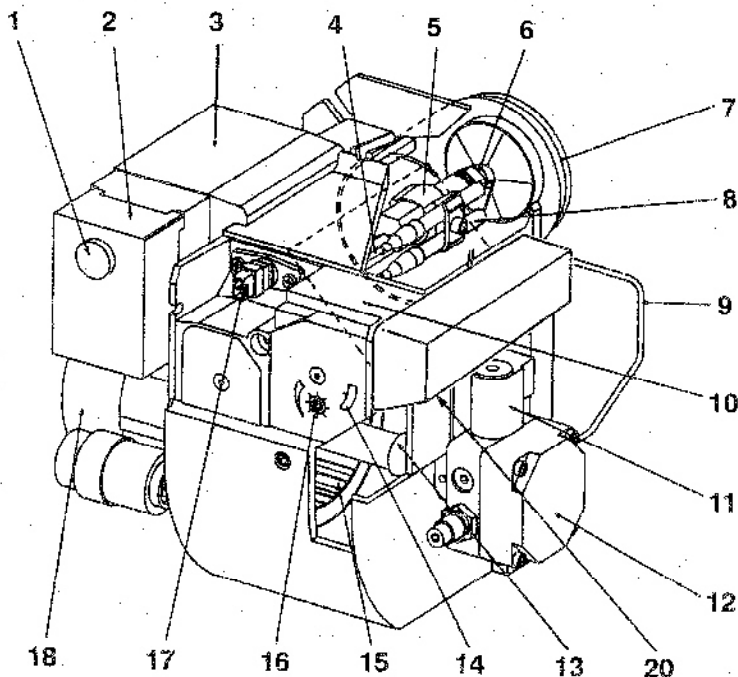
## ELECTRO-OIL BURNER

## BURNER DETAILS

### ELECTRO OIL STERLING BURNER

#### Components

- 1 Reset button
- 2 Control box
- 3 Ignition transformer
- 4 Ignition cables
- 5 Nozzle assembly
- 6 Nozzle
- 7 Combustion head
- 8 Ignition electrodes
- 9 Connecting pipe
- 10 Air damper
- 11 Solenoid valve
- 12 Pump
- 13 Drive coupling
- 14 Indication, air damper
- 15 Fan wheel
- 16 Adjustment, air damper
- 17 Photoresistor
- 18 Motor
- 20 Air intake (Bal. Flue)



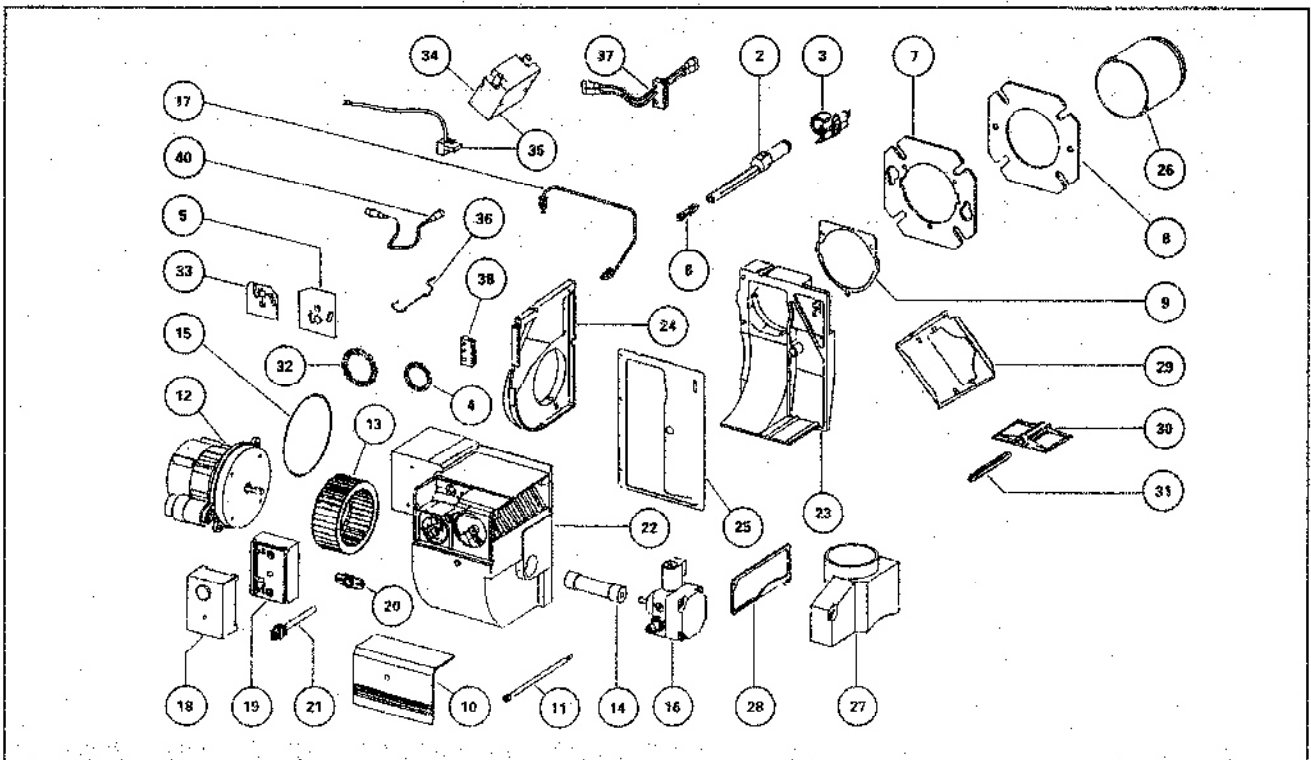
#### BURNER SETTINGS

Boiler Type	Boiler output range	Electro Oil Burner Model	Comb Head	Danfoss Nozzle USG/H	Pump Pressure P.S.I.	Firing Rate ml/min	CO <sub>2</sub> %	Smoke	Flue Gas Temp. °C	
EuroStar 65 & Combies	50,000	Sterling 40	6-7-21.5-10 with back plate	0.5 80°-EH	110	28.2	10.5	0	200	FACTORY SET AT 65,000 OUTPUT
	60,000	Sterling 40	6-7-21.5-10	0.6 80°-EH	110	33.8	10.5	0	200	
	65,000	Sterling 40	6-7-21.5-10	0.60 80°-EH	120	37.5	11.0	0	210	
EuroStar 90 & Combi 90	70,000	Sterling 40	6-7-21.5-10	0.65 80°-EH	110	41	11	0	215	FACTORY SET AT 90,000 OUTPUT
	80,000	Sterling 40	6-7-21.5-10	0.75 80°-EH	110	47	11.5	0	215	
	90,000	Sterling 40	6-7-21.5-10	0.85 80°-EH	115	50	11.5	0	235	
EuroStar 125	125,000	Sterling 50	10.8 10.6 19.10	1.10 80°-EH	115	72	12	0	235	

*To be retained by householder*

# Electro Oil Sterling Burner - Short Parts List

Item	Description	Part No.
2	Nozzle Line Comp.	207581
3	Electrode Holder Comp.	208382
6	Adjustment Screw Nozzle Assembly	207586
7	Fixing Flange 50/165 - 70/90	208801
7	Fixing Flange 100/125	208801
8	Gasket Fixing Flange 50/65 - 70/90 - 100/125	208799
9	Gasket, Fan Housing Front Port	208384
12	Motor 90w, Single Phase	207593
13	Fan Wheel 108x42x8 50/65 - 70/90	207597
13	Fan Wheel 120x42x8 100/125	207594
14	Drive Coupling Complete	207595
15	O Ring Seal	207596
16	Pump, Danfoss BFP 11L3	203081
17	Connecting Pipe Complete	207598
18	Control Box, Satronic	29064
19	Relay Base, Satronic Complete	207628
20	Flange, Photoresistor	207602
21	Photoresistor MZ 7705	207603
25	Gasket, Fan Housing	207607
26	Flame Tube Eurostar 50/65 - 70/90	207626
26	Flame Tube Eurostar 100/125	203056
28	Gasket, Connecting Piece	207612
34	Transformer, Danfoss	207618
	Nozzle 50/65 0.6 80°-EH	26213
	Nozzle 70/90 0.85 80°-EH	208692
	Nozzle 100/125 1.1 80°-EH	208693



# MAINTENANCE OF OIL BURNER

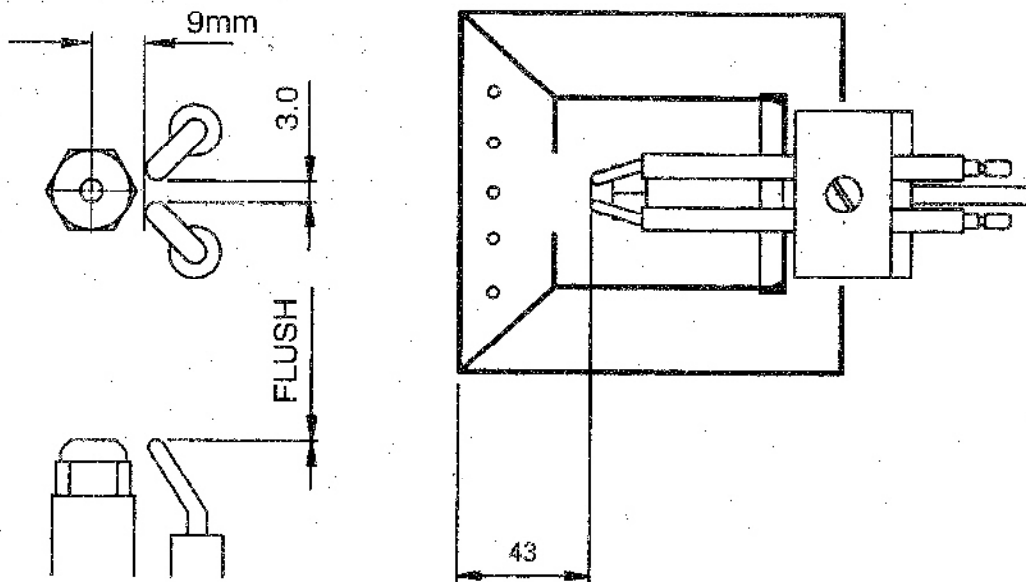
**WARNING:**  
BEFORE DOING ANY SERVICE  
SWITCH OFF POWER AT THE  
MAIN SWITCH AND CUT  
OFF THE OIL SUPPLY.

OIL PIPE  
CONNECTIONS

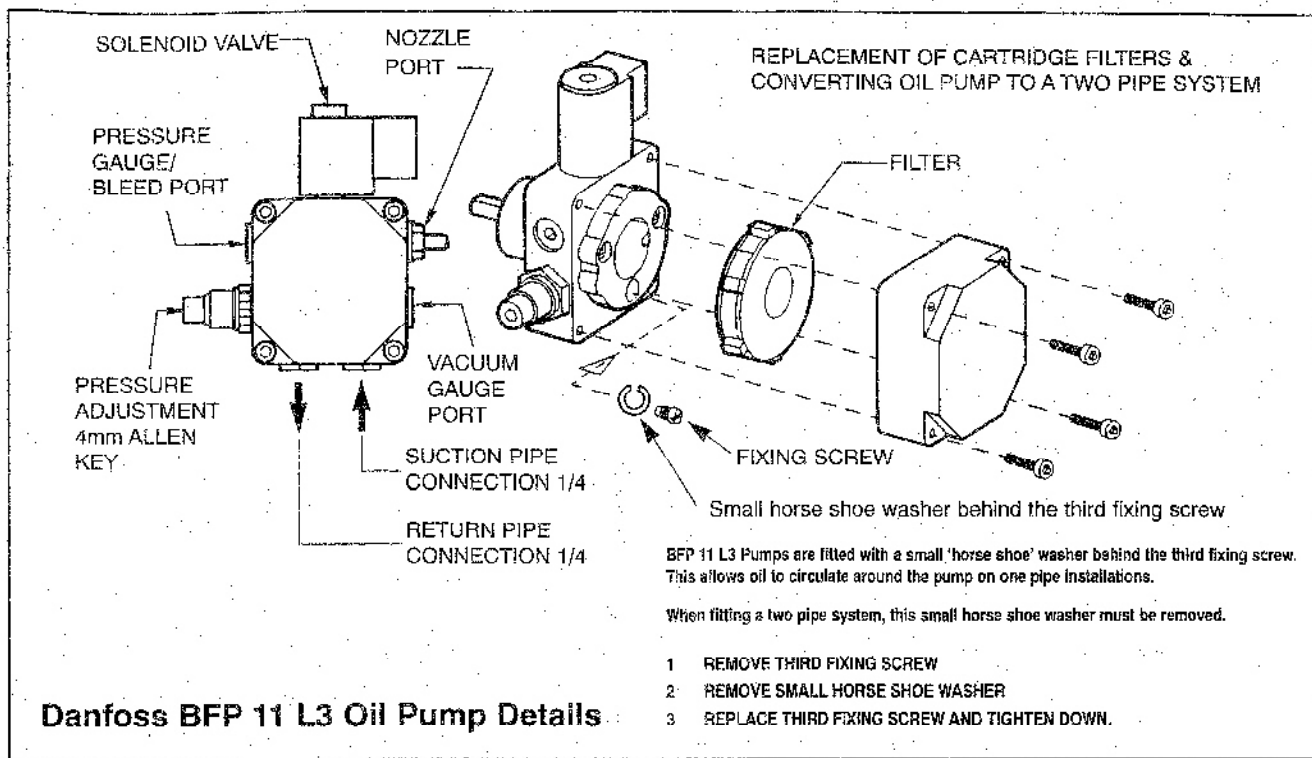
RETURN

FLOW

## SERVICING OF BURNER HEAD & NOZZLE ASSEMBLY



## STERLING BURNER HEAD DETAILS



### Servicing the burner (Electro-Oil Sterling)

1. Switch off the electrical supply to boiler and turn off oil.
2. Unscrew long securing bolt connecting both sections of the burner together and remove main burner sections from boiler.
3. Unscrew two flange fixing nuts and remove blast tube assembly from boiler.
4. Clean blast tube air vanes and inner and outer annular slots.
5. Fit a new nozzle with one of the same specification - do not attempt to clean or dismantle nozzle.
6. Clean ignition electrodes and check their settings. Also, examine the porcelain insulators and replace electrodes if there are cracks or signs of crazing.
7. Pull out photo-cell and clean glass face.
8. Clean deposits from impeller blades and check impeller is firmly tightened to motor shaft.
9. Check condition of flexible coupling for free play between pump and impeller - replace if necessary.
10. Clean any deposits from around air intake and shutter.
11. Remove end cap from oil pump - take out filter and wash in kerosene.
12. Check flexible oil hose(s) for oil leaks and replace if necessary with a similar 'long life' hose supplied with boiler.
13. Reassemble all parts but do not refit burner to boiler until boiler flue-ways have been cleaned.



By appointment to H.M. Queen Elizabeth  
The Queen Mother  
Manufacturers of Domestic Boilers



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