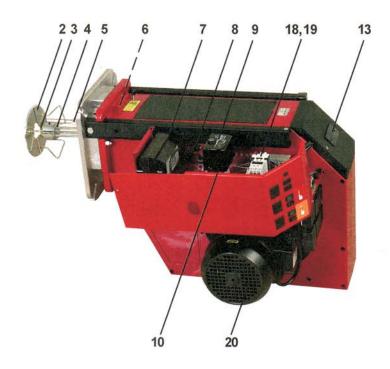


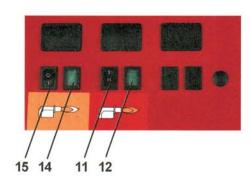
Installation & Maintenance Manual

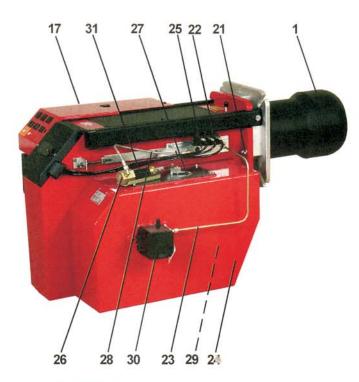
MOL 2540-3H (B80 2-3)

Oil Burner

DESCRIPTION







COMPONENTS

- 1. Flame cone
- 2. Shrouded disc
- 3. Nozzle
- 4. Nozzle assembly
- 5. Ignition electrodes
- 6. Ignition cable
- 7. Ignition transformer
- 8. Photoresistor
- 9. Control box
- 10. Front plate, relay base
- 11. Switch I-II
- 12. Indicating lamp Stage 2

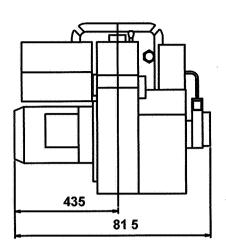
- 13. Cover, inspection glass
- 14. Indicating lamp Stage 1
- 15. Switch 0-I
- 17. Electric panel
- 18. Contactor
- 19. Thermal overload protection
- 20. Motor
- 21. Locking device, flange
- 22. Solenoid valves
- 23. Connecting pipe pump-solenoid valve bloc

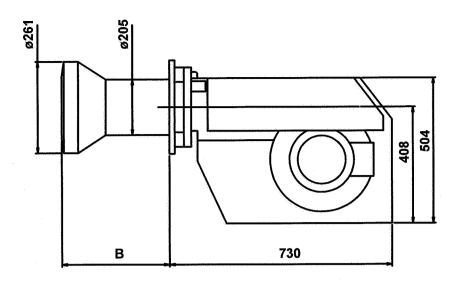
- 24. Air intake
- 25. Solenoid valve bloc
- 26. Nozzle assembly adjustment
- 27. Scale, air regulation
- 28. Connecting pipe, solenoid valve bloc-adjustment device
- 29. Airdamper
- 30. Pump
- 31. Adjustment device

TECHNICAL DATA

Type designation B 80-2.3H

DIMENSIONS





	Length of burner tube	Flange Measure B
Burnerhead	396	356
Burnerhead	596	556
Burner head	696	656

OUTPUT RANGE AND NOZZLES RECOMMENDED

	Oil capacity	Out	tput	Recor	nmende	Recommended				
	kg/h	kW	Mcal/h	Angle	Danfos	s Monarch	Pump pressure			
Burner head	50-214	593-2538	510-2182	45° - 60°	В	PLP	14 bar			

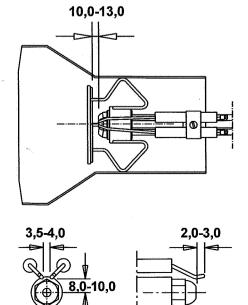
The net calorific value of 11,86 kWh/kg for light oil has been used.

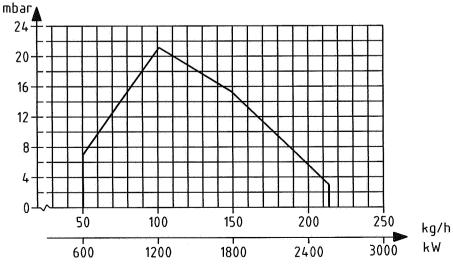
RECOMMENDED NOZZLE

Because of different boiler types existing on the market, with varying combustion chamber designs, it is not possible to state a definite spray angle or spray pattern.

Note that the spray angle and the spray pattern change with the pump pressure.

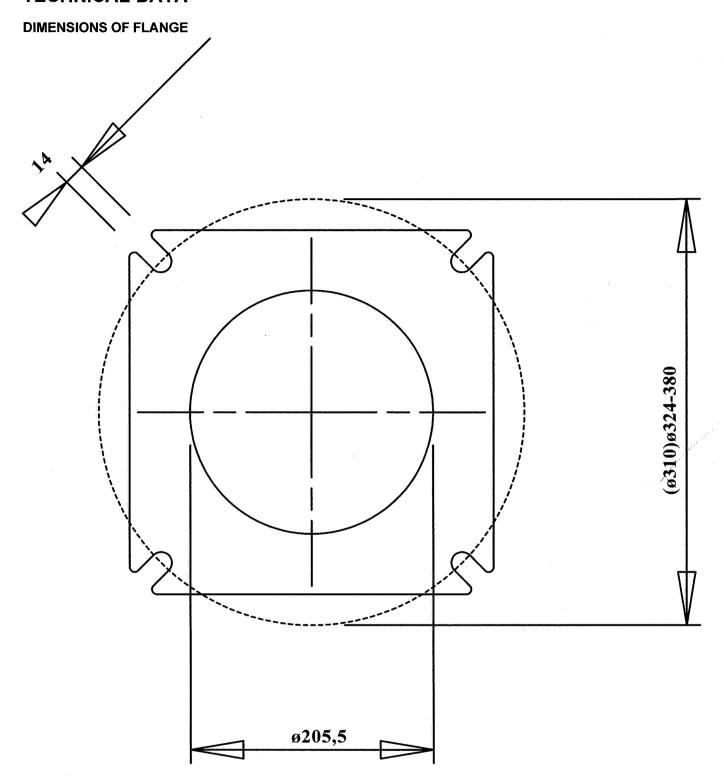
BURNER HEAD





171 235 70 07-02

TECHNICAL DATA



GENERAL INSTRUCTIONS

GENERAL RULES

The installation of an oil burner should be carried out in accordance with local regulations. The installer of the burner must therefore be aware of all regulations relating to oil and combustion.

Only oil suitable for the burner should be used and then in combination with a suitable oil filter before the oil pump of the burner.

If the burner is replacing an existing burner make sure that the oil filter is replaced or cleaned. The installation must only be undertaken by experienced personnel. Care should be taken by the installer to ensure that no electrical cables or fuel/gas pipes are trapped or damaged during installation or service/maintenance.

INSTALLATION INSTRUCTIONS

General installation instructions accompany the burner and should be left in a prominent place adjacent to the burner.

ADJUSTMENT OF BURNER

The burner is from the factory pre-set to an average value that must then be adjusted to the boiler in question.

All burner adjustments must be made in accordance with boiler manufacturers instructions. These must include the checking of flue gas temperatures, average water temperature and CO₂ or O₂ concentration.

To adjust the combustion device, start by increasing the air volume and the nozzle assembly somewhat. When the burner starts it is burning with excess air and smoke number 0. Reduce the nozzle assembly adjustment until soot occurs, and then increase the adjustment to make the soot disappear again. Then the volume of air is reduced until soot occurs and increased again to reach a combustion free of soot.

By this procedure an optimum adjustment is obtained. If larger nozzles are used the preadjustment of both the air volume and the nozzle assembly must be increased.

A whistling sound may be heard which can be eliminated or reduced as follows: Increase the nozzle assembly adjustment somewhat. The CO₂-content and consequently the air volume will then be reduced.

CONDENSATION IN CHIMNEY

A modern burner works with less excess air and often also with smaller nozzles than older models. This increases the efficiency but also the risk of condensation in the chimney. The risk increases if the area of the chimney flue is too large. The temperature of the flue gases should exceed 60°C measured 0,5 metres from the chimney top.

Measures to raise the temperature: Insulate the chimney in cold attics Install a tube in the chimney Install a draught regulator (dilutes the flue gases during operation and dries them up during standstill) Increase the oil quantity Raise the flue gas temperature by

removing turbulators, if any, in the boiler.

PUMP ADJUSTMENT

See separate description.

MAINTENANCE

The boiler/burner should be examined regularly for any signs of malfunction or oil leakage.

OIL SUPPLY

The oil line should be dimensioned in accordance with the pump manufacturer's instruction. In the suction line to the burner a filter should be mounted to prevent any particles in the oil from reaching the burner. If the installation consists of several burners each one should have its own suction line from the tank or a circulation system should be used.

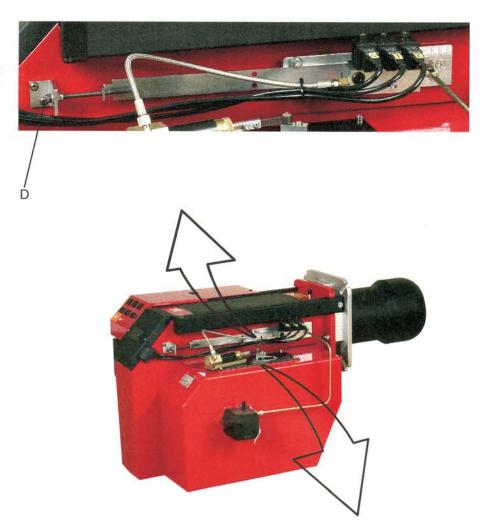
The temperature in the oil line should be kept as constant as possible. Avoid exposing the line to excessive cold which may cause blockages of paraffin deposits.

The oil pipe and electric cable should be fitted so that the burner can be placed on the floor for inspection of the combustion device.

GENERAL INSTRUCTIONS

ADJUSTMENT OF NOZZLE ASSEMBLY

Adjust the nozzle assembly with the adjustment screw D to the desired position.



AIRADJUSTMENT

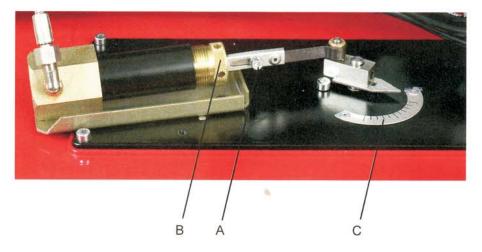
First stage:

Set the operating switch (S2) on low capacity (I). Loosen the screw (A) and turn the damper to the position wanted. Tighten the screw (A) again.

Second stage:

Set the operating switch (S2) on high capacity (II). Screw the knurled ring (B) in (reduce) or out (increase). The position of the damper can be read on the damper scale (C).

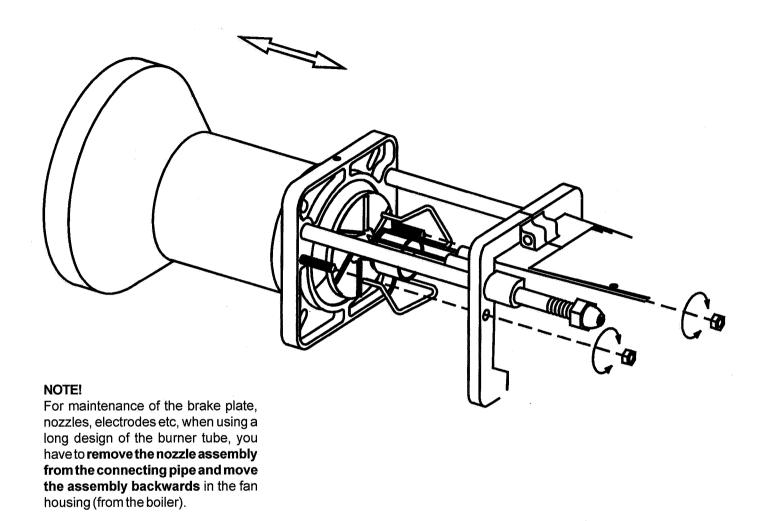
Check the air adjustment by making a flue gas analysis.



MAINTENANCE OF OIL BURNER

Warning: Before doing any service switch off power at the main switch and cut off the oil supply.

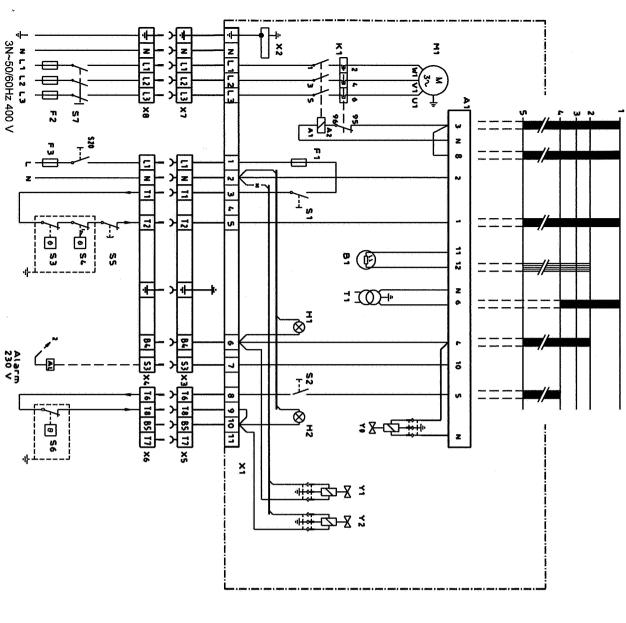
SERVICE OF BURNER HEAD



ELECTRIC EQUIPMENT

OIL BURNER CONTROL: LMO24.255.B2B/LOA44

WIRINGDIAGRAM



LIST OF COMPONENTS

- Oil burner control
- Photoresistor
- Operating fuse
- Fuse
- F3 F2
- Fuse
- Lamp, low capacity

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- Lamp, high capacity
- Thermal overload protection
- Burnermotor
 - Operating switch
 - Operating switch, high/low capacity
 - Control thermostat
- l emperature limiter
- Micro switch for hinged door
- Control thermostat, high/low
- capacity
- S7 Main switch
- S20 Main switch
- Ignition transformer
- Connection terminal board
- Earth terminal
- Plug-in contact "Euro", burner
- Plug-in contact "Euro", boiler
- Plug-in contact "Euro", high/low burner
- Plug-in contact "Euro", high/low boiler
- Plug-in contact "Euro" 3-phase, burner
- Solenoid valve start Plug-in contact "Euro", 3-phase, boiler
- Solenoid valve 1
- Solenoid valve 2

If S6 is missing connection between T6 and

with local regulations. Mains connection and fuse in accordance

ELECTRIC EQUIPMENT

OIL BURNER CONTROL: LMO24.255.B2B

FUNCTION

- 1. Switch on operating switch and twin thermostat
 The burner motor starts, an ignition spark is formed, the prepurge goes
 on till the prepurge period expires and the solenoid valve 1 opens (2).
- 2. Solenoid valve 1 opens
 Oil mist is formed and ignited. The photocell indicates a flame.
- 3. The safety time expires
 - a. If no flame is established before this time limit the control cuts out.
 - b. If for some reasons the flame disappears after this time limit, the burner will make an attempt to re-start.
- 4. Full load thermostat ON

The burner is in operating position and can now change between high and low capacity.

4-5. Operating position

If the burner operation is interrupted by means of the main switch or the thermostat, a new start takes place when the conditions in accordance with point 1 are fulfilled.

The oil burner control cuts out

A red lamp in the control is lit. Press the reset button and the burner re-starts.

TECHNICAL DATA

Pre-ignition time:	25 s
Pre-purge time:	25 s
Post-ignition time:	5 s
Safety lock-out time:	5 s
Reaction time on flame failure:	max. 1 s
Ambient temperature:	from - 20 to +60°C
Min. current with flame established:	30 µ A
Max. photo current at start:	5,5 µ A
Enclosure:	IP 40

CONTROL OF PHOTO CURRENT

Current through photo unit is measured with a d.c. ammeter (a moving coil instrument connected in series with the photo unit).

INSTRUCTIONS PUMP TYPE DANFOSS RSA 125

TECHNICAL DATA

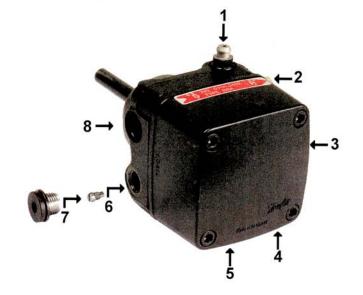
Viscosity range:

1,3-18,0 mm²/s 12,0-21,0 bar

Pressure range:

Oil temperature:

-10 to +70°C



COMPONENTS

- 1. Pressure gauge port G 1/8"
- 2. Nozzle port G 1/8"
- 3. Suction line G 1/4"
- 4. Suction line G 1/4"
- 5. Return line G 1/4"
- 6. Return line R 1/4"
- 7. By-pass plug
- 8. Pressure adjustment,
 - 5 mm allen key

SUCTION LINE TABLES

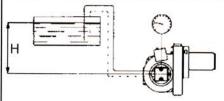
The suction line tables consist of theoretically calculated values where the pipe dimensions and oil velocity have been matched so that turbulences will not occur. Such turbulences will result in increased pressure losses and in acoustic noise in the pipe system. In addition to drawn copper piping a pipe system usually comprises 4 elbows, a non-return valve, a cut-off valve and an external oil filter.

The sum of these individual resistances is so insignificant that they can be disregarded. The tables do not include any lengths exceeding 100 m as experience shows that longer lengths are not needed.

The tables apply to a standard fuel oil of normal commercial quality according to current standards. On commissioning with an empty tube system the oil pump should not be run without oil for more than 5 min. (a condition is that the pump is being lubricated during operation). The tables state the total suction line length in metres at a viscosity of 6,0 mm²/s.

PURGING

On 1-pipe systems it is necessary to purge the pump. On 2-pipe systems purging is automatic through the return line.



1-pipe system

0.5 22

Height Pipe diameter H ø10mm ø12mm ø15mm ø20mm m m m m

With an overlying tank a 1-pipesystem is not recommended

	3:	7 4 TP	
	 <u> </u>		

1-pipe system Height Pipe diameter H ø10mm ø12mm ø15mm ø20mm m m m

With an underlying tank a 1-pipesystem is not recommended

Two	-pipe s	system										
Heig	ght	Pipe diameter										
Ηø	10mm	ø12mm	ø15mm	ø20mm								
m	m	m	m	m								
4,0	39	81	100	100								
3,5	36	76	100	100								
3,0	34	71	100	100								
2,5	32	66	100	100								
2,0	29	61	100	100								
1,5	27	56	100	100								
1,0	25	51	100	100								

46

100

100

Two	-pipe s	system											
Heig		Pipe diameter											
H ø	10mm	ø12mm	ø15mm	ø20mm									
m	m	m	m	m									
0	20	41	100	100									
-0,5	18	36	89	100									
-1,0	15	31	77	100									
-1,5	13	26	65	100									
-2,0	10	22	53	100									
-2,5	8	17	41	100									
-3,0	6	12	29	91									
-3,5	3	7	17	53									
-4.0	1	2	5	15									

FUNCTION DANFOSS

RSA 95 - 125

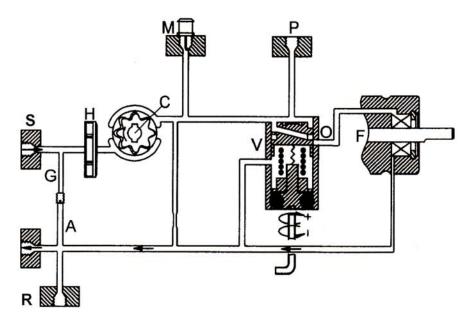
When the pump is started oil is drawn through the suction port "S" via filter "H" to the suction side of the gearwheel set "C". From here the gearwheel set pumps the oil to the pressure side and at the same time the oil becomes pressurized. The oil is led to cut-off and regulating valve "V" which opens when the set pressure is reached.

The pressure is controlled and kept constant by regulating valve "V". At the same time the gearwheel set "C" distributes the oil through nozzle port "P" and pump return side "R" via the shaft seal "F".

The quantity of oil supplied to nozzle port "P" is determined by the pressure set on regulating valve "V" and the nozzle/resistance in the nozzle line.

In 2-pipe-systems excess oil is led back to the oil tank. In 1-pipe-systems the by-pass plug "A" must be removed to give free flow back to the suction side via return line "G" with return port "R" closed.

When the pump is stopped, the pump



output drops and produces a drop in the oil pressure. The spring in the regulating valve presses the regulating piston forward until it seals in port "P". This cuts off the oil flow to the nozzle and ensures that the nozzle line is effectively shut off.

If the pump is overloaded, i.e. more oil is demanded than the gearwheel is able to pump under the given conditions, the oil pressure falls below

the set value because the piston of the regulating valve moves towards its closed position and partially or wholly cuts off the return oil via port "O".

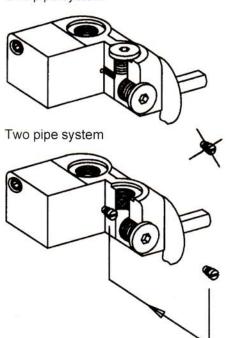
This can be remedied by

- reducing the pump pressure
- reducing the capacity, i.e. smaller nozzle or greater resistance
- changing to a pump with higher capacity

MOUNTING/DISMOUNTING BY-PASS PLUG

In a 2-pipe-system excess oil is led back direct to the oil tank. In a 1-pipe-system the by-pass plug must be removed so that there is a free passage back to the suction side through the return line with the return port closed.

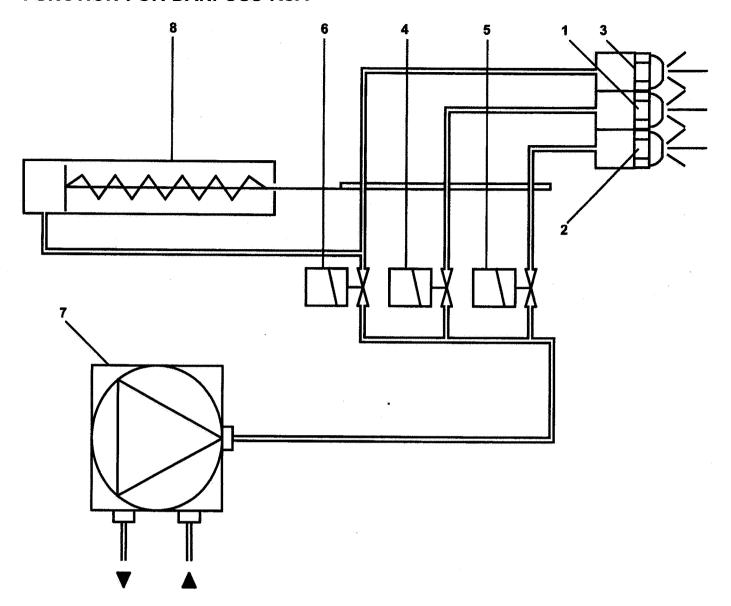
One pipe system



EXCHANGE OF FILTER



FUNCTION FOR DANFOSS RSA



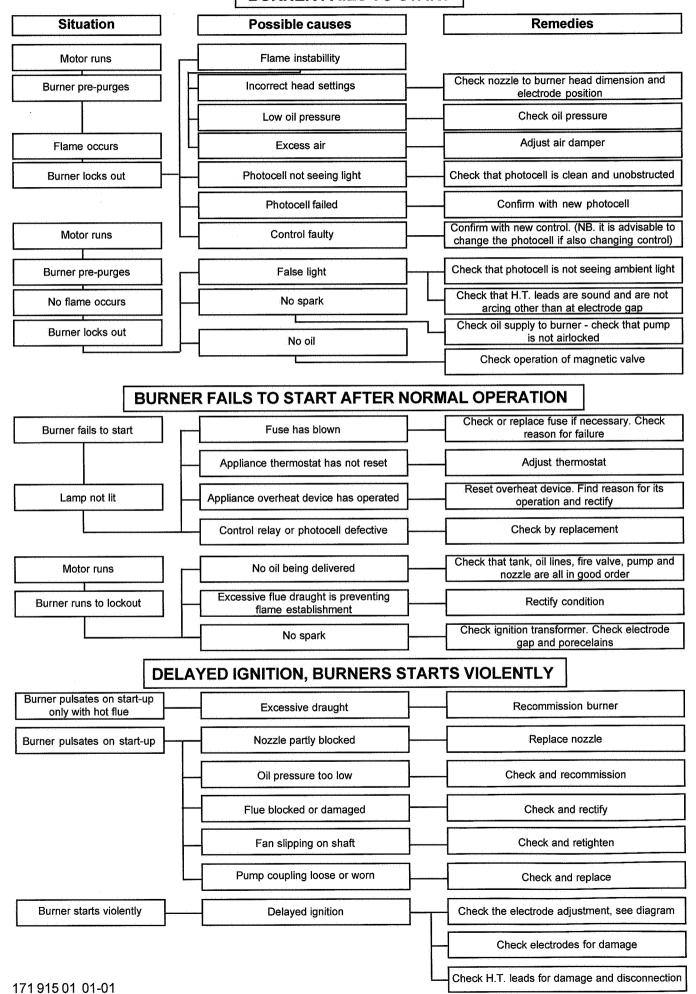
- 1. Nozzle 1
- 2. Nozzle 2
- 3. Nozzle 3
- 4. Solenoid valve Nozzle 1
- 5. Solenoid valve Nozzle 2
- 6. Solenoid valve Nozzle 3 and adjustment of air Stage 2 7. Oil pump
- 8. Air adjustment Stage 2
- N.B. Nozzle 1+2= 1st Stage Nozzle 1+2+3= 2nd Stage

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FAULT LOCATION

BURNER FAILS TO START



Enertech Limited, P O Box 1, Vines Lane Droitwich, Worcestershire, WR9 8NA

