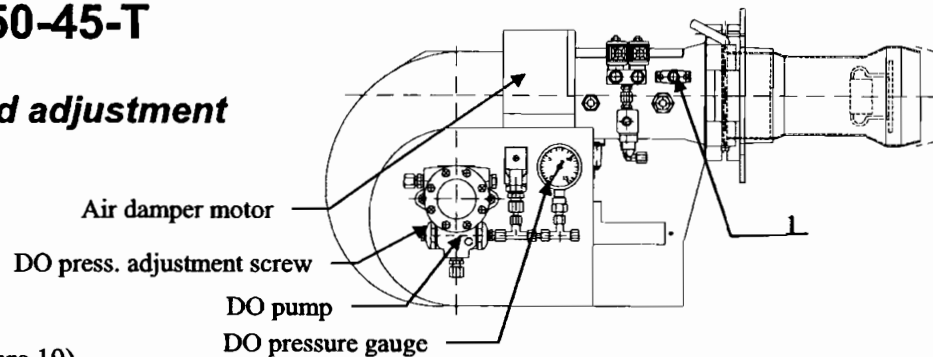


Appendix C: Diesel oil burner F-50-45-T

Servicing and adjustment



Dismantling

(Figure 18 and Figure 19)

1. Pull out the photocell.
2. Remove the cover on top of the burner.
3. Disconnect the ignition cables.
4. Disconnect and pull out the sludge burner.
5. Disconnect and pull out the nozzle line.

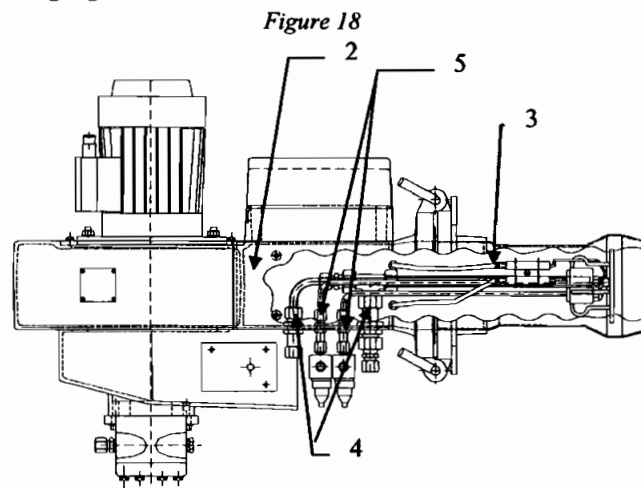


Figure 18

Figure 19

Cleaning and adjustment

(Figure 20)

Clean the blast tube, flame scrod, ignition electrodes and sludge burner. Change the diesel oil nozzle if necessary.

Note: The smallest nozzle is stage one. Check the spark gap and the position of the flame scrod.

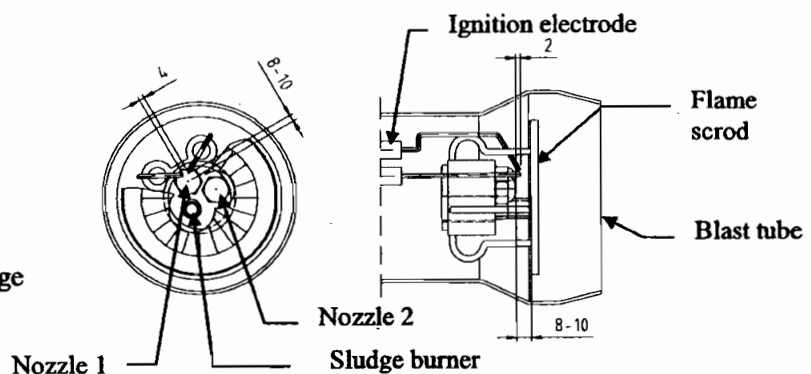


Figure 20

Re-assembly

Re-assembly the burner in reverse order.

Diesel oil pressure adjustment

The diesel oil pressure is adjusted on the diesel oil pump. (Figure 18) Remove end cap nut from pump for access to pressure setting screw.

Turning the regulator screw clockwise increases the pressure setting.

Normal pressure is 16 bar.

Burner air adjustment.

LKS 130-09

Check the flame. Correct flame is even, stable bright, without soot and sparks.

Uneven (odd shaped) flame indicates dirty worn nozzles.

Sooty flame indicates insufficient air supply.
Sparks indicate too much air or worn nozzle.

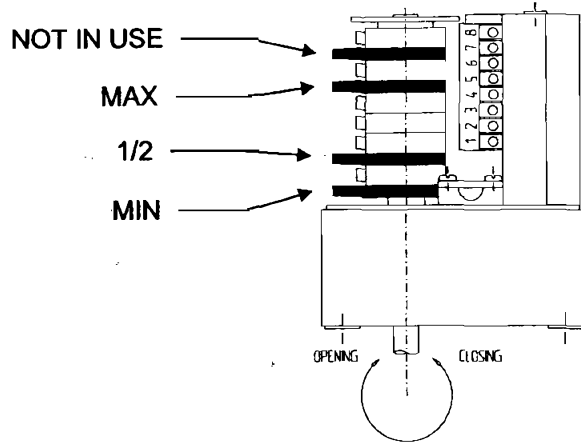


Figure 21

Air damper min. position (BLUE)

Adjusting when burning on stage no. 1.

To decrease the air amount.

Decrease the damper setting by turning the blue cam clockwise.

To increase the air amount.

Increase the damper setting by turning the blue cam anti-clockwise.
Push the damper carefully open by hand until the motor will close the damper.

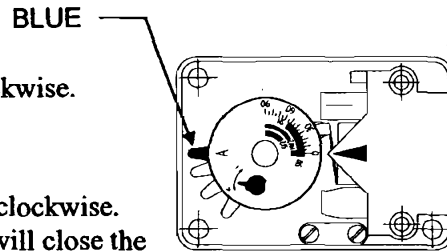


Figure 22

Air damper 1/2 position (ORANGE)

Adjusting when burning on stage no. 2, 4 and 7.

To decrease the air amount.

Decrease the damper setting by turning the orange cam clockwise.

To increase the air amount.

Increase the damper setting by turning the orange cam anti-clockwise

Figure 23

Air damper max. position (RED)

Adjusting when burning on stage no. 3, 5 and 6.

To decrease the air amount.

Decrease the damper setting by turning the blue cam clockwise.

To increase the air amount.

Increase the damper setting by turning the blue cam anti-clockwise.

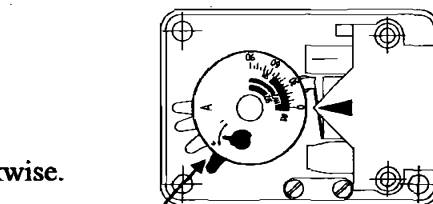


Figure 24

Spare parts

For spare parts see drawing of diesel oil burner.

DO nozzles

Standard nozzle

Incinerator	Nozzle 1	Nozzle 2	Std. pressure	DO temp.
OG 200C	2.5 GPH 60°	4.5 GPH 45°	16 bar	60°C
OG 400C	2.5 GPH 60°	4.5 GPH 45°	16 bar	60°C
GS 500C	3.5 GPH 60°	5.5 GPH 45°	16 bar	60°C

For special cases other nozzles can be used.

Maintenance

Burner nozzle cannot be repaired and must be replaced with new.

Capacities

Oil burner nozzle capacities in l/h at various pressures. ⁸								
Rated flow ⁹		Pressure in bar						
G.P.H.	l/h	10	11	12	13	14	15	16
1,50	5,68	6,82	7,12	7,41	7,71	8,00	8,24	8,47
1,65	6,25	7,41	7,82	8,24	8,53	8,82	9,29	9,76
1,75	6,62	7,88	8,29	8,71	9,06	9,41	9,71	10,00
2,00	7,57	9,06	9,47	9,88	10,29	10,71	11,06	11,41
2,25	8,52	10,24	10,71	11,18	11,59	12,00	12,41	12,82
2,50	9,46	11,29	11,82	12,35	12,88	13,41	13,88	14,35
3,00	11,36	13,53	14,18	14,82	15,47	16,12	16,65	17,18
3,50	13,25	15,88	16,65	17,41	18,06	18,71	19,35	20,00
4,00	15,14	18,12	19,00	19,88	20,65	21,41	22,18	22,94
4,50	17,03	20,35	21,35	22,35	23,24	24,12	24,94	25,76
5,00	18,93	22,59	23,71	24,82	25,82	26,82	27,71	28,59
5,50	20,82	24,82	26,06	27,29	28,35	29,41	30,47	31,53
6,00	22,71	27,18	28,47	29,76	30,94	32,12	33,24	34,35
6,50	24,61	29,41	30,59	31,76	33,53	35,29	36,47	37,65
7,00	26,50	31,76	33,53	35,29	36,47	37,65	38,82	40,00
7,50	28,39	34,12	35,88	37,65	38,82	40,00	41,76	43,53
8,00	30,28	36,47	38,24	40,00	41,18	42,35	44,12	45,88