



MODEL 5000SP

OPERATOR INSTRUCTIONS
PARTS LISTING
CIRCUIT DIAGRAMS
INSTALLATION DETAILS

Designed and manufactured by:

**OPEN DATE EQUIPMENT LIMITED
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MODEL 5000SP INDEX.

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EC DECLARATION OF CONFORMITY

We hereby declare that the following machinery complies with the essential health and safety requirements of the Machinery Directive 89/392/EEC, 91/368/EEC and 93/44/EEC enacted in the United Kingdom by the Supply of Machinery (Safety) Regulations 1992.

Machine Description	Hot Foil Printer
Model	Model 5000SP
Type
Serial number
Manufactured by	Open Date Equipment Limited.
Address	Units 8 & 9, Puma Trade Park, 145 Morden Road, Mitcham, Surrey, CR4 4DG. United Kingdom.

This machinery has been and manufactured in accordance with the following transposed harmonised European standards.

EN292: parts 1 and 2, 1991. Safety of Machinery - Basic concepts, general principles of design.

EN294: 1992. Safety of Machinery - Safety distance to prevent danger zones being reached by the upper limbs.

EN60204: part 1 and 3. Safety of Machinery - Electrical equipment of machines - Specification for functional requirements

EN50081: part 1, 1997. Electromagnetic compatibility - Generic emission standard.

EN50082: part 2, 1997. Electromagnetic compatibility - Generic immunity standard.

In addition, this machinery has been designed and manufactured in accordance with British Standard BS5304: 1988, Safety of Machinery.

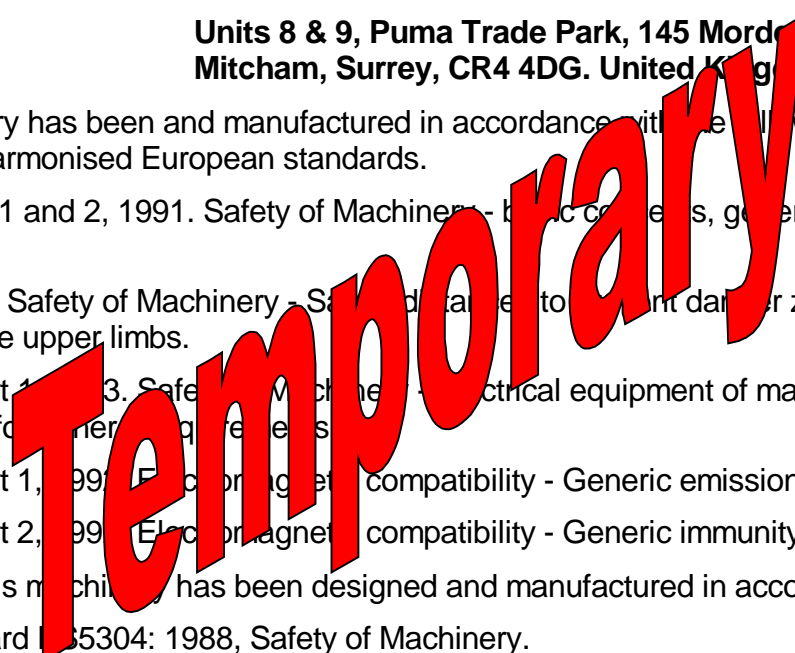
A technical construction file for this machinery is retained at the above address.

Signed..... Date.....

Name K.F. Wingfield. Position General Manager

Being the responsible person appointed by Open Date Equipment Limited.

This Declaration of Conformity complies with Regulation 22 of The Supply of Machinery (Safety) Regulations 1992.



IMPORTANT SAFETY INSTRUCTIONS

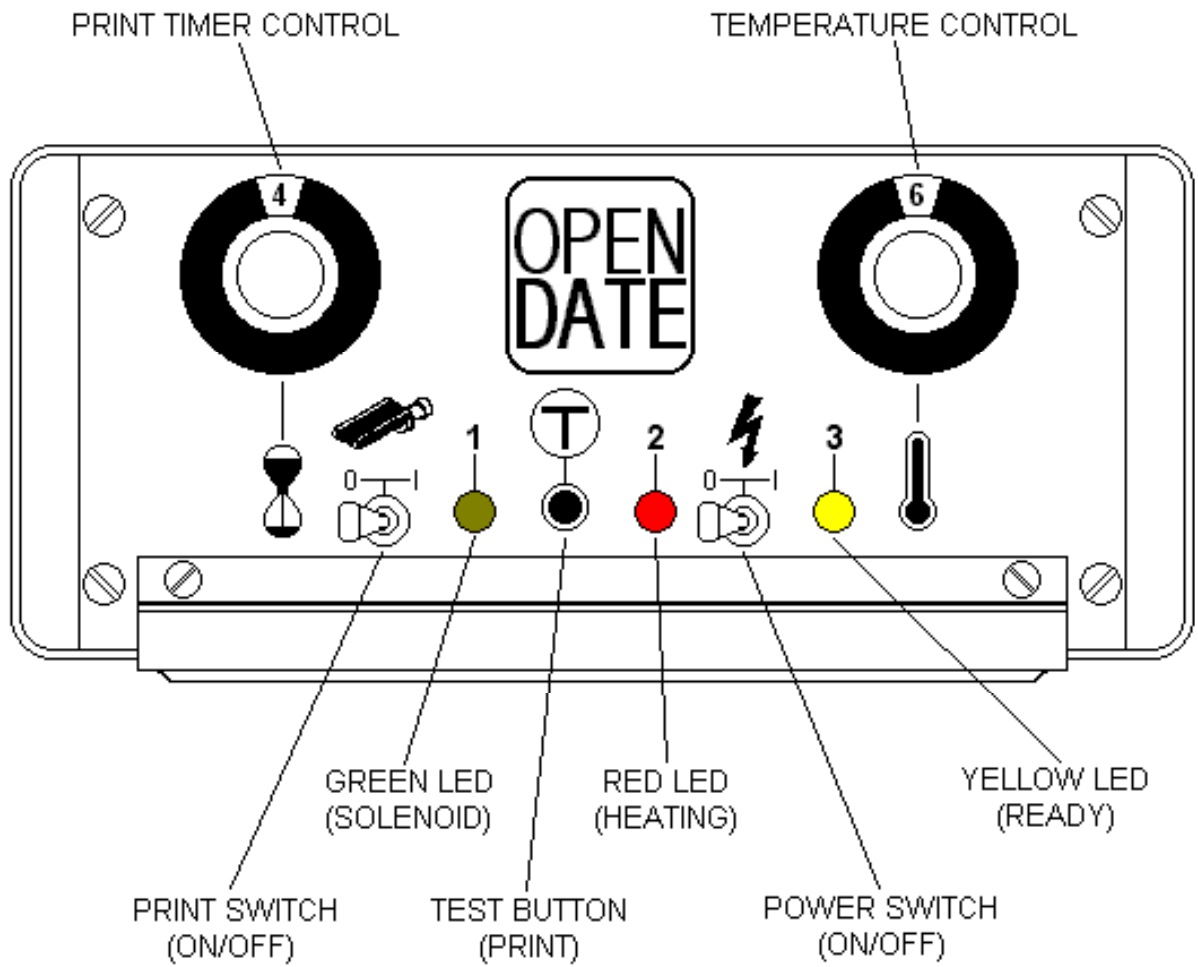
1. Read these instructions carefully. Follow all warnings and instructions marked on the product.
2. Always disconnect the printhead and controller from the mains electricity and air supply before attempting to clean or service it.
3. Never operate the printhead unless it is installed within the mounting frame supplied. When installed correctly the gap between the printer and print base should not be greater than 4mm (see page 29).
4. Do not use the product near water. Never spill liquid of any kind on to the product.
5. Do not place this product on an unstable stand, table or machine. It may fall causing serious damage to the product or injury to the operator.
6. Never insert objects of any kind into this product through any openings or gaps as they may touch dangerous voltage points or short circuit parts that could result in fire or electric shock.
7. This product should only be operated from the type of electrical supply as indicated on the rear of the printhead control unit (see page 6).
8. Ensure that the printhead connection cable is fully secured to the printhead with the screws attached to the "D" connector cover. Failure to do this will result in the machine not being properly earthed.
9. Use only the power cable supplied with the product. The cable supplied is three core mains cable, utilising one wire as a grounding conductor. This must be connected to a suitable earth point at the electrical supply. This is a safety feature. If any doubt arises in trying to connect the power cable, please contact the manufacturer or agent who supplied the product.
10. Do not allow anything to rest on the power cable. Do not locate the product where persons will walk on the cable.
11. If an extension cable is used with this product, make sure that the total ampere ratings of the equipment plugged into the extension cable does not exceed the extension cable ampere rating. Also make sure that the total rating does not exceed the fuse rating.
12. Do not service this product yourself as opening or removing guards may expose you to dangerous voltage points, major burns and other risks. Refer all servicing to qualified personnel.
13. Do not attempt to use to use this product in areas where explosive gases or substances are present.
14. Once the product is under normal working conditions, care must be taken when removing the type holder as you can easily burn yourself. There is a yellow warning sign on the type holder access door indicating a danger. Open the door by gripping it at the side. The type holder can get very hot, it should only be held by its plastic handle. Never touch the metallic parts, as temperatures could be as high as 220 degrees C.
15. Disconnect the product from the electrical and air supply, referring to servicing by qualified personnel under the following conditions.
 - a. If the power cable is damaged or frayed.
 - b. If the air pipes are damaged in any way.
 - c. If liquid has been spilled into or if the product has been exposed to rain or water.
 - d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the instructions. Improper adjustment may result an damage needing qualified technicians to restore the product to normal operating conditions.

OPERATING INSTRUCTIONS

ELECTRONIC CONTROL UNIT (refer to page 5)

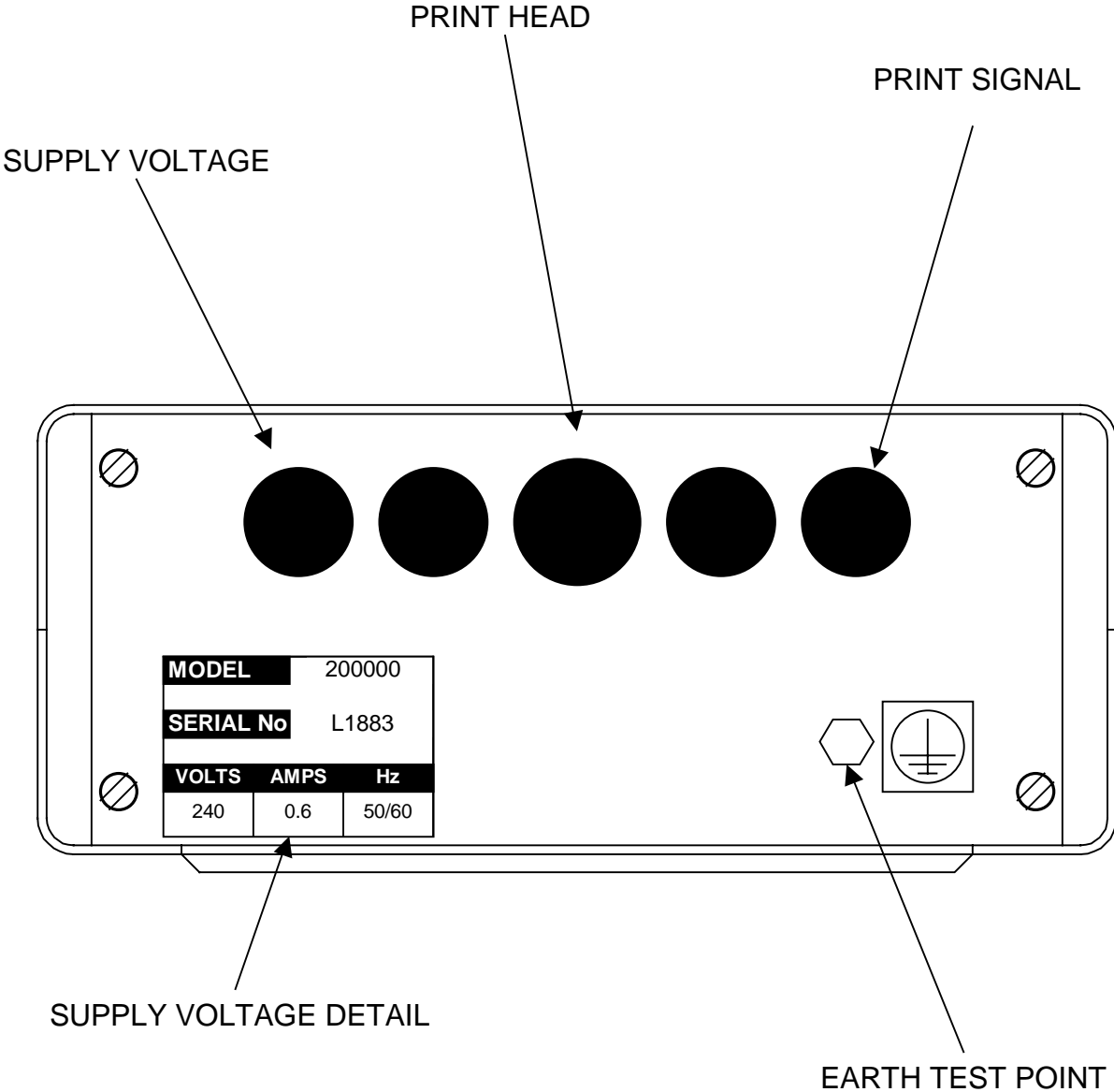
PRINT switch	Switches on the print cycle. Switch off to silence the audible alarm.
POWER/HEAT	Doubles as the main power switch (does not isolate the internal switch circuitry). Leave on to maintain operating temperature. Four to five minutes should be allowed for the printhead to warm up from cold.
PRINT TIMER	Adjusts the dwell time, ie. the period of time that the type/die face is control in contact with the substrate. Higher numbers indicate longer dwell time. Range is 12 to 650 milli-seconds.
TEMPERATURE	Adjusts the head temperature. Higher numbers indicate higher control temperature. Range is 75 to 220 degrees C. (see page 16).
TEST button	Manually operates the printhead.
LED 1 (green)	Indicates that the solenoid valve circuit is in order. Switches off during the print cycle, when the foil alarm sounds and when the type/die holder door is open.
LED 2 (red)	Lights when the printhead is heating.
LED 3 (amber)	Indicates that the printhead is at operating temperature.
NOTE.	It is normal for the red and amber LED's (lights) to alternate every minute or so. This indicates that the operating temperature is being maintained.

ELECTRONIC CONTROL UNIT FRONT PANEL LAYOUT



ELECTRONIC CONTROL UNIT
REAR PANEL

(Cables omitted for clarity)



OPERATING INSTRUCTIONS

FITTING TYPE/DIE HOLDER

Screw the handle into the type/die holder end plate. Hold by the handle only, **NEVER ASSUME THAT A TYPE/DIE HOLDER IS COLD**. Open the type holder access door, the printer will not operate with this open. Align the type/die holder within the two side locators and slide in until the magnet catches on the keep plate. Remove the handle and close the door.

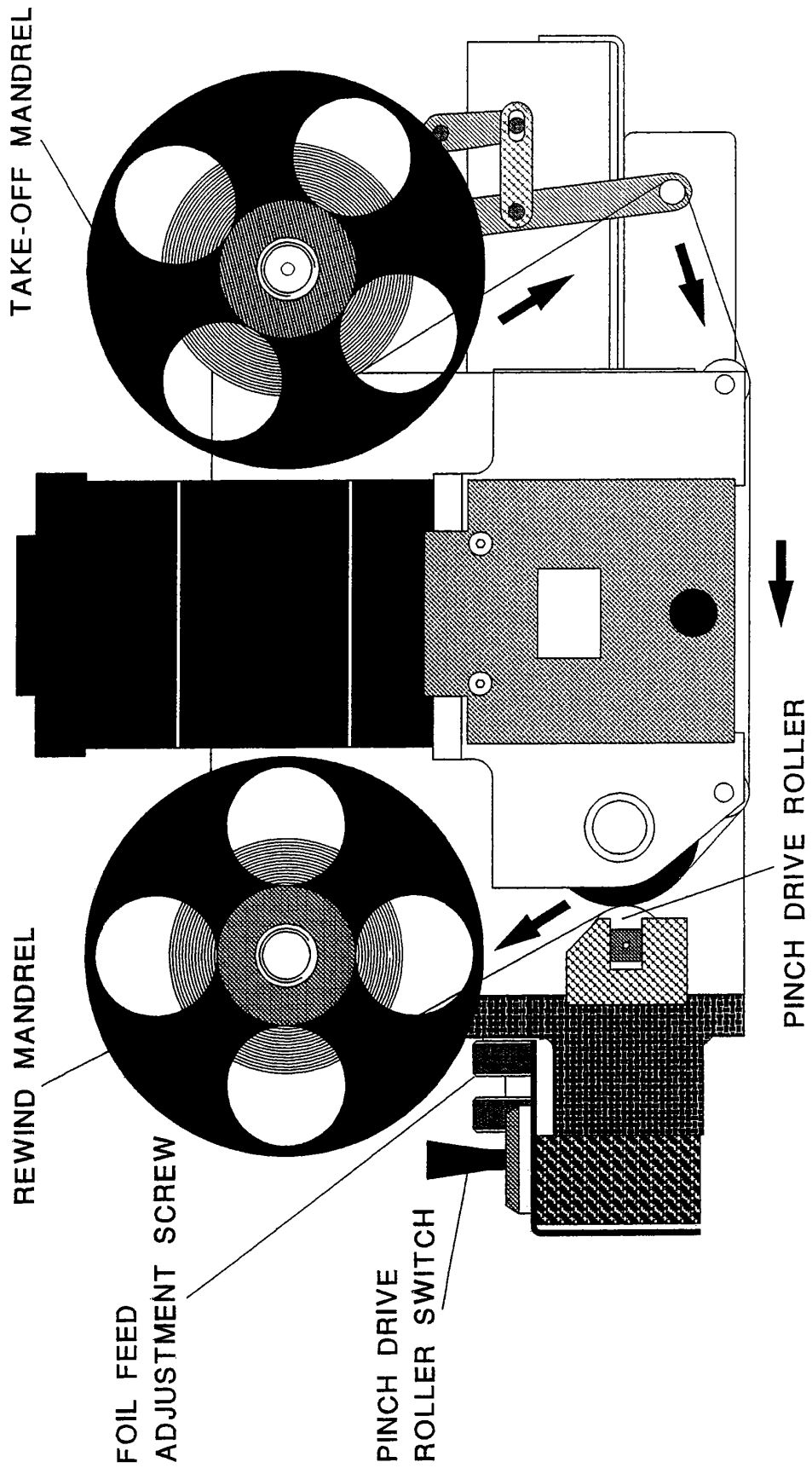
FOIL FEED ADJUSTING SCREW

This adjusts the amount of foil used per print and is located at the rear of the printer near to the pinch drive roller. Winding in reduces the foil pull. Ensure that the locking nut is fully tightened after adjustment. A gap of 1 or 2mm is recommended between each portion of used foil. See also page 3.5 for instructions on setting the foil feed air flow restrictors.

FOIL THREADING (refer to page 8)

1. Fit an empty foil core onto the rewind mandrel.
2. Disengage pinch drive roller.
3. Remove label from new roll of foil.
4. Fit new roll of foil onto take-off mandrel. The foil un-winds in an anticlockwise direction.
5. Thread foil around all rollers as shown on threading diagram below.
6. Attach end of the foil to the empty core on rewind mandrel, gloss side facing inwards. The foil rewinds in a clockwise direction.
7. Wind foil on a few turns to track and tension it.
8. Engage pinch drive roller.

5000 Series Foil Threading Diagram



INITIAL SETTING PROCEDURE

- (1) Ensure that printing foil and substrate are compatible. If in doubt, contact foil supplier for assistance.
- (2) Remove type holder from printhead.
- (3) Ensure that rubber print base is clean, undamaged and securely retained in position under printer.
- (4) Set air pressure regulator. 4 to 7 Bar is recommended (60 to 100 PSI).
- (5) Set **PRINT** control to 3 and **HEAT** control to 5.
- (6) Switch **HEAT** on, leave **PRINT** off. 3 to 4 minutes should be allowed for printer to reach working temperature.
- (7) Load type or die into holder, centrally if possible and fasten securely. Make sure that type face is clean.
- (8) Load type/die holder into printer and close door. If cold, allow 3 to 4 minutes for holder to heat up before printing.
- (9) Load foil as detailed on page 7.
- (10) Turn on **PRINT** switch.
- (11) Place a sample of substrate material under printer and press **TEST** button. Inspect resulting print.
- (12) Adjust print levelling screws until a light, uniform print impression is achieved. Lock levelling screws.
- (13) Adjust foil metering screw for economic foil use as detailed previously and tighten thumb nut.

PRINT ORIENTATION

To rotate the printer and therefore turn the overprint through 90 degrees, remove the foil magazine (if applicable), unscrew the clamping handle until the location square on top of the printhead is clear of the top rails, turn it to the required position, tighten the clamping handle and replace the magazine.

TEMPERATURE ADJUSTMENT (refer to page 5)

- Normal setting is about 5.
- Should the print not fully adhere to the substrate a higher setting may be used.
- Small, fine detail print generally requires a lower temperature.
- Thermoplastic films and especially polyethylene generally require a lower temperature.
- Aluminium foils, paper and untreated polyester require a higher temperature.

INITIAL SETTING PROCEDURE

PRINT TIMER ADJUSTMENT (refer to page 5)

- Normal setting is about 4.
- Generally, the larger the print, the higher the setting.
- Should the print not adhere fully to the substrate, a higher setting may be used.
- Remember, the printhead can only operate during the stationary cycle of the web, if the print time is longer than this the web may break.
- Should the dwell time have to be decreased to accommodate higher production speeds, it may be necessary to compensate by increasing the temperature setting.

FOIL FEED AIR FLOW RESTRICTORS

The air flow restrictors govern the speed at which the foil feed mechanism operates. They are fitted to both lower ports of the manifold block behind the rear cover or into the ports of the foil drive cylinder. They work by regulating the speed at which air is exhausted from the air cylinder.

Turning the adjusting screws will alter the exhaust air flow and consequently the speed of the foil feed, it will also affect noise levels.

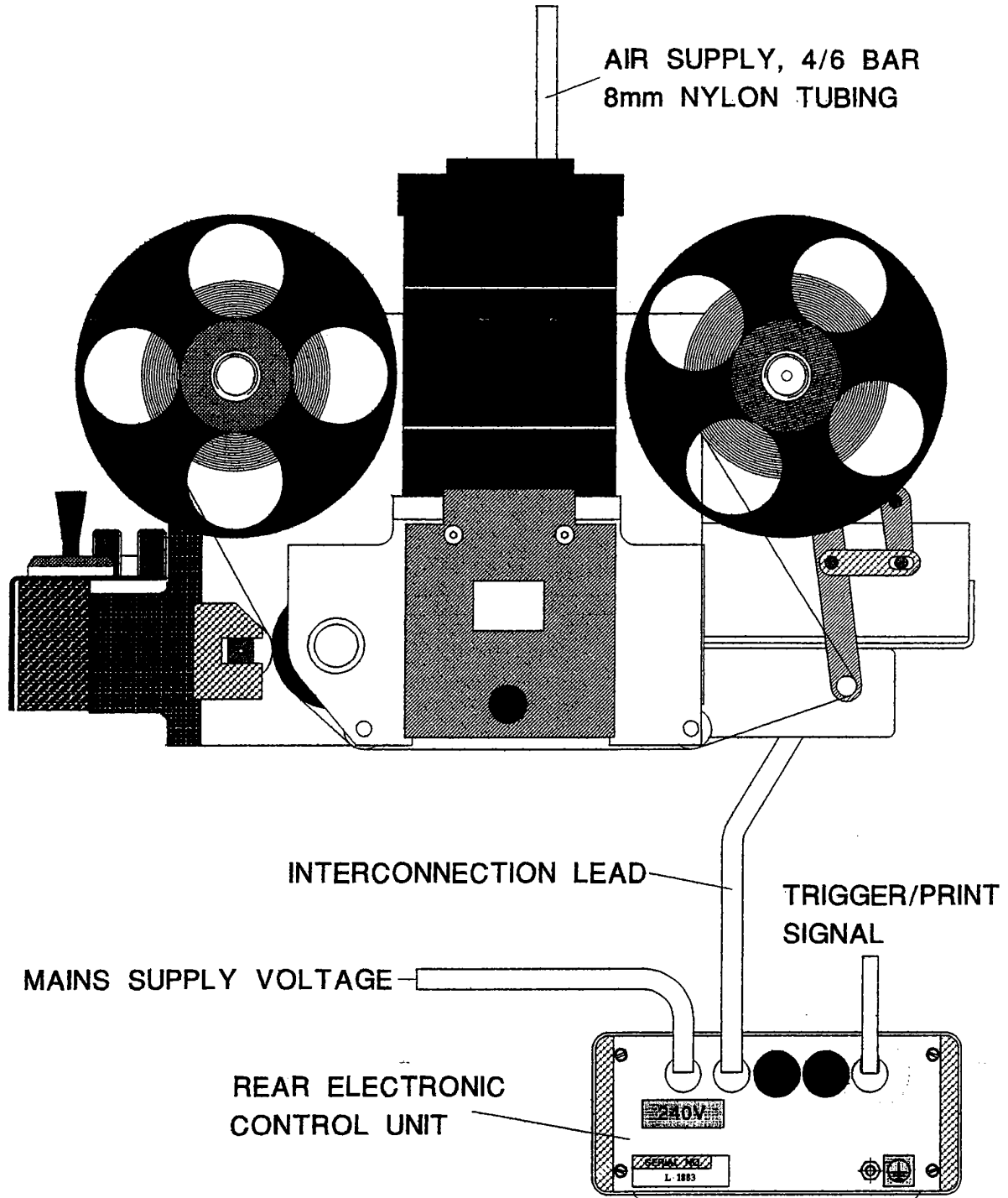
The forward stroke of the air cylinder drives the piston forward to the foil adjusting screw. The restrictor for this is located nearest to the foil feed adjusting screw. To set the speed of this stroke the print dwell must be already set (see previous page). Adjust the restrictor so that the ram strikes the adjusting screw with the minimum velocity and consequently, noise.

The drive for the printing foil is taken from the return stroke of the foil feed cylinder. The restrictor for this is located nearest the cable socket entry. Increasing the exhaust air flow will speed up the foil feed. To ensure efficient foil feeding, the return stroke should be as gentle as possible.

For higher speed operation, the exhaust air flow from both the forward and return strokes will have to be increased.

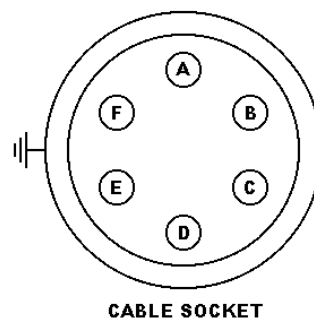
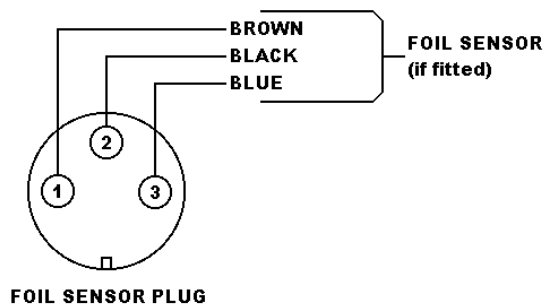
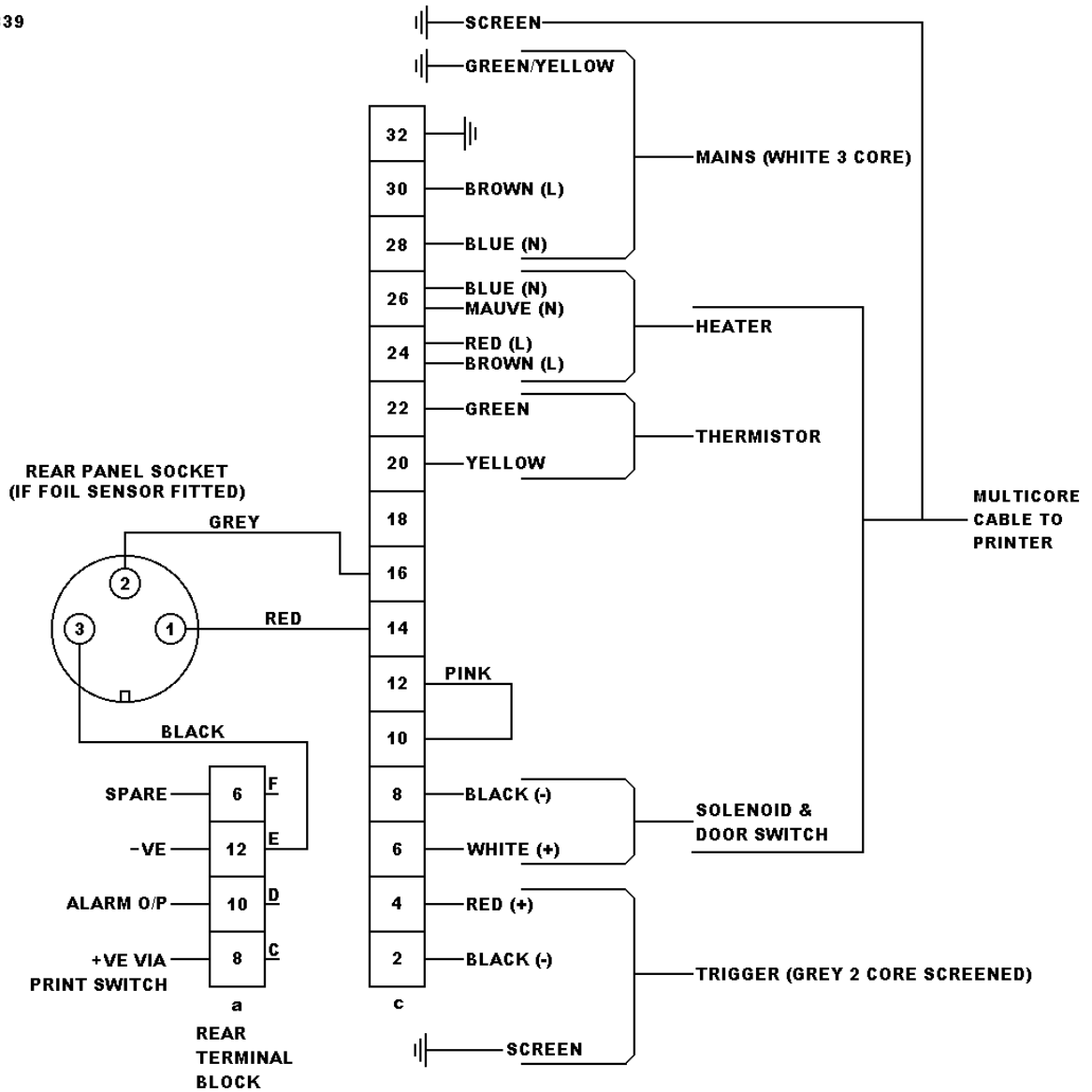
Note, it is very important that the foil drive piston returns fully before the next print cycle commences.

5000SP Interconnection Details



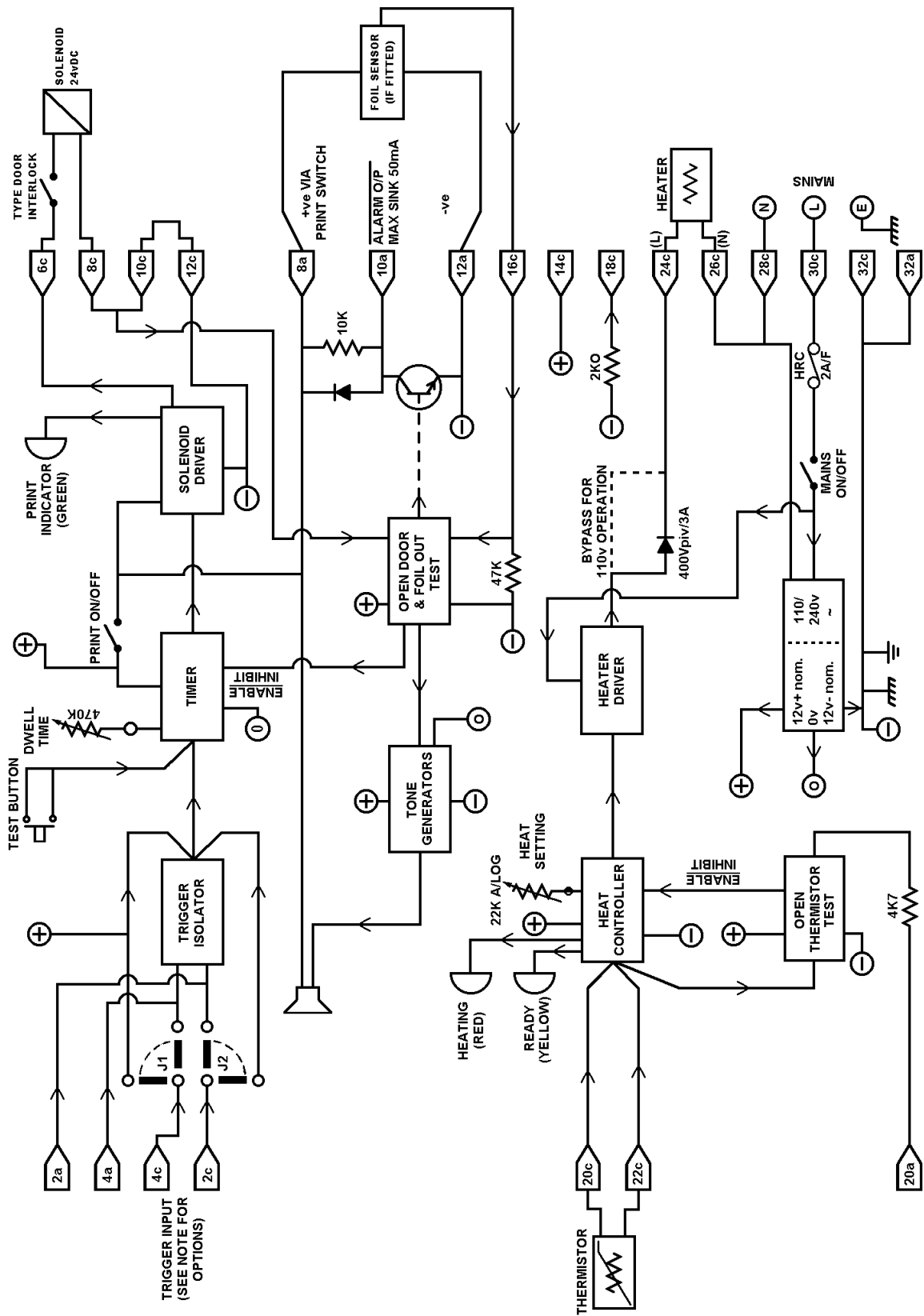
5000SP SERIES INTERNAL WIRING DIAGRAM (ELECTRONIC CONTROL UNIT) Drawing No. 9-839

9-839



- A = RED & BROWN
- B = BLUE & MAUVE
- C = YELLOW
- D = GREEN
- E = BLACK
- F = WHITE

BLOCK DIAGRAM FOR 5000SP CONTROLLER Drawing No. 9-838



TRIGGER SIGNAL SELECTION

The trigger signal which initiates the print cycle can be either a DC voltage or taken from a pair of normally open contacts. The option is selected by moving the blue jumpers at the rear of the main printer control card. When supplied, the board is configured to accept a DC print signal.

1. Horizontally mounted boards are normally configured to accept a DC print signal within the range 10 to 50 volts (polarity unimportant), and the blue selector jumpers are pegged north-south i.e. sitting parallel to each other, see figure 1.
2. For triggering from a normally open contact source such as a relay, microswitch or foot switch, the selector jumpers should be set east/west i.e. in line with each other, see figure 2.

N.B. Vertically mounted boards for use in DIN41494 ("Eurocard") enclosures are pegged east-west. Both print signal options are then available and can be selected by suitable wiring to the PCB connector within the enclosure.

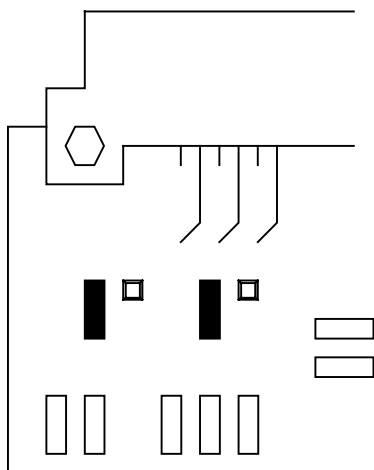


Figure 1.
Jumpers set for 10 to 50
volts DC print signal.

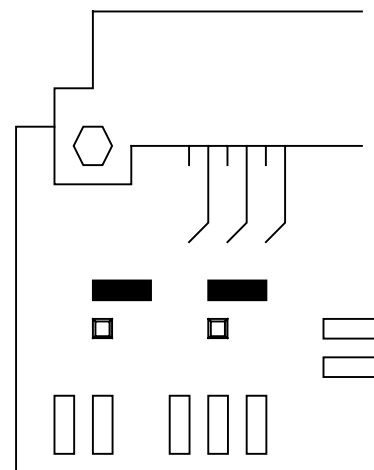
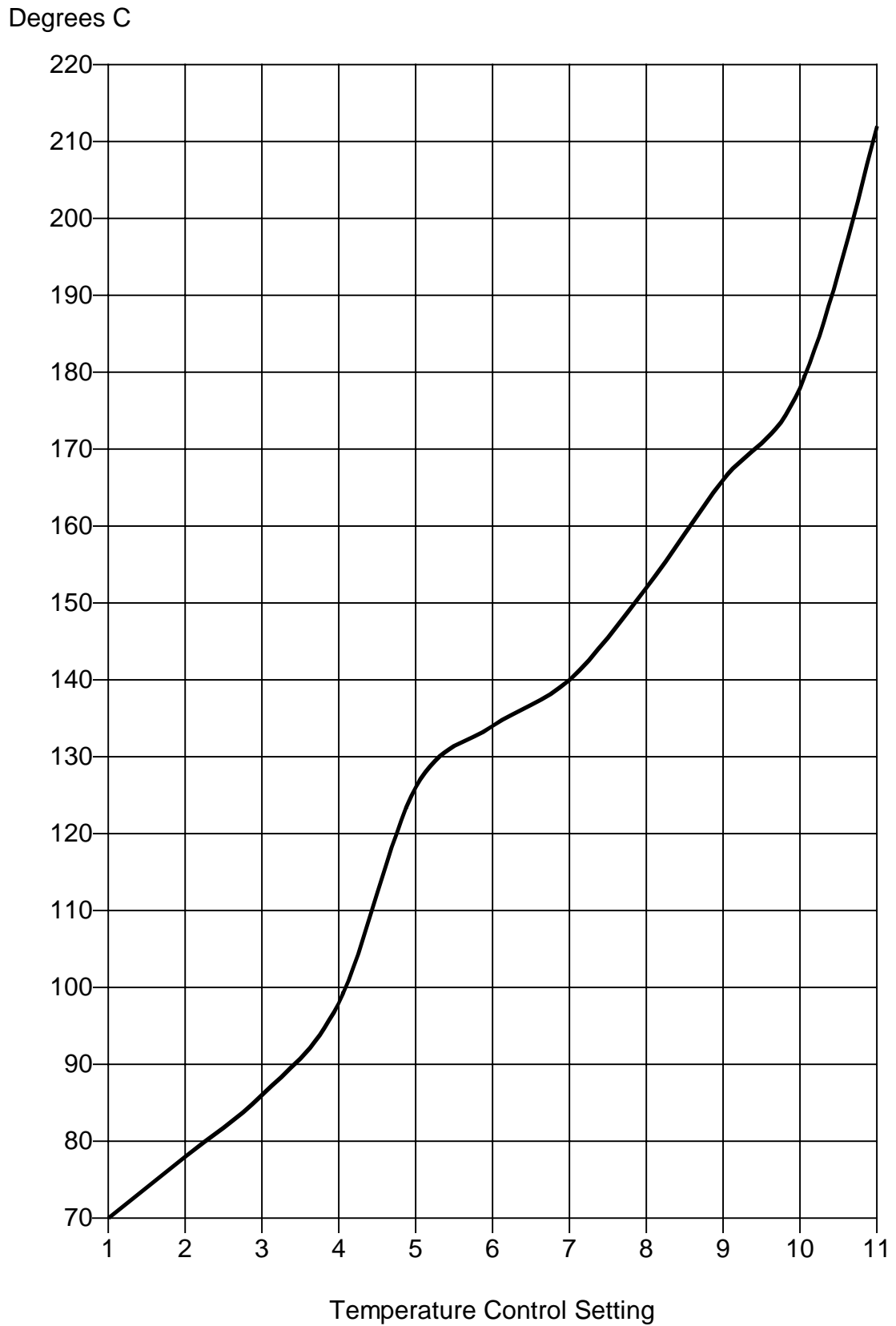


Figure 2.
Jumpers set for normally
open print signal.

Printhead Temperature Relative to Settings (nominal).



5000SP ELECTRONIC FAULT FINDING

FAULT	POSSIBLE CAUSE
No lights when control unit is switched on.	No power to control unit. Fuse blown on PCB.
Control panel lights, including green, are illuminated but printer will not operate either by remote trigger signal or TEST button.	Type Holder access door is open. Safety Microswitch failure. No air. Fault on PCB.
Control panel lights, except green, are illuminated and printer will not operate either by remote trigger signal or TEST button.	Solenoid valve failure. Solenoid valve disconnected. PRINT switch off. Printer plug not properly mated.
Alarm sounds continually.	No foil present (if foil alarm is fitted). Foil not positioned over sensor (if fitted). Foil sensor misaligned (if fitted). Foil sensor failure (if fitted).
Printer does not heat, red L.E.D. is illuminated.	Heater failure. Broken wire between heater and socket. Fault on PCB.
Printer does not heat, yellow L.E.D. is illuminated. In extreme cold conditions press and hold down TEST button for 5 - 10 seconds.	Plug/socket disconnected. Thermistor failed open/short circuit. Fault on PCB.
Heater fails to switch off, yellow L.E.D. stays on.	Fault on PCB.
Heater fails to switch off, red L.E.D. stays on.	Fault on PCB. Thermistor probe loose in housing.

5000SP MECHANICAL FAULT FINDING

FAULT	POSSIBLE CAUSE
Insufficient foil pull.	Foil adjusting screw wound in too far. Pinch roller not engaged. Foil feed air flow restrictors incorrectly set. Clutch bearing failure in gear or body. Drive roller damaged or dirty.
Solenoid operates but printer does not.	No air. Air pipe damaged.
Printer operates but does not print, i.e. impression but no print.	Printing foil exhausted. Printing foil not being driven through. Printing foil not suitable for substrate. Little or no heat.
Printing foil tracks over to one side.	Brake arm loose. Pinch roller misaligned with drive roller.
Foil rewind is loose.	Green Drive Belt worn out or dirty. Foil feed too rapid (slow down return stroke of piston, see page 3.5). Foil retaining discs mis-aligned.
Printer is sluggish.	Insufficient air pressure. Faulty valve.

5000SP PRINT QUALITY DETERIORATION.

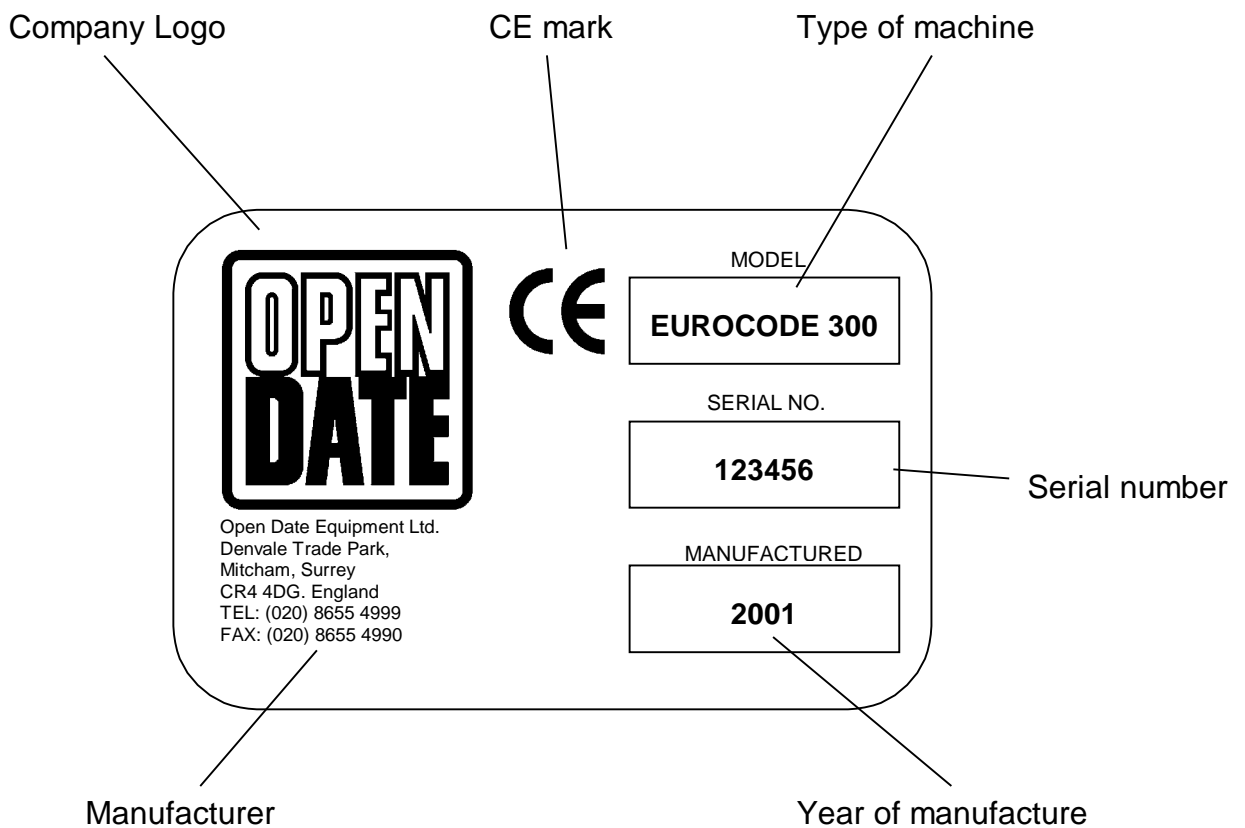
Print quality deterioration can be attributed to any of the following causes;

POSSIBLE CAUSE	CURE
Insufficient foil pull	See pages 8 and 27
Insufficient air pressure.	Check pressure regulator setting. See that pipes are not damaged.
Printer not level with print base.	Adjust levelling screws.
Too much or too little heat.	Check that settings are correct.
Dirty, worn or damaged dies or type.	Clean or replace.
Damaged or out of position print base rubber.	Replace or re-position.
Printing foil not compatible with substrate.	Contact foil supplier.
Substrate surface altered, i.e. different coating.	Contact substrate or foil supplier.
Print ram not completing full stroke.	Open forward flow restrictor (where fitted). Increase print dwell time.
Substrate moving before print head is clear.	Reduce print dwell time.
Print Dwell incorrectly set.	Adjust as necessary.

MACHINE SERIAL NUMBER IDENTIFICATION

The identification label can be found on the outside of the printer, usually on the rear guard.

Always quote the model and serial number when ordering spare parts.



RECOMMENDED SPARES LIST

Covering:

MODEL 5000 SP

MECHANICAL

STOCK REF

	1.	Drive Belt	DRI140038
	2.	Drive Roller	DRI141003
	3.	Main Cylinder Seal Kit	SEA512029
	4.	Rewind Cylinder Seal Kit	SEA512046
	5.	Solenoid Valve	VAL510507
<u>or</u>	6.	Solenoid Valve Seal Kit	SEA512023
	7.	Grey Self Adhesive Print Base 300 x 450mm sheet	SABASE
<u>or</u>	8.	White Silicone Rubber Print Base 300 x 300 x 3mm thick sheet	SRBASE

ELECTRICAL

	1.	Cartridge Heater (240v)	HEA501505
	2.	Thermistor Probe	THE500501
	3.	Plug-In Control Card (240v)	CPC290500
	4.	Pack of Fuses (5)	FUS393500

This list covers machines supplied after 1 January 1993 for the first two years of operation only.

MODEL 5000SP MECHANICAL PARTS LIST

MECHANICAL

Item numbers refer to those on the assembly drawing. When ordering spare parts please use the Stock Reference.

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>STOCK REF.</u>	<u>QTY</u>	<u>NOTES</u>
1	Main Body	N/A	1	
2	Rear End Cap	CAP142317	1	
3	Roller Mounting Bracket	BRA142003	1	
4	Rack	RAC142004	1	
5	Pivot Plate	PIV142005	1	
6	Wear Pad	EA142006	1	
7	Pivot Block	HIN142007	1	
8	Door	DOO142007	1	
9	Bearing Carrier Assembly	PLA142336	1	Including items 83 & 85.
10	Cover Plate	COV142010	1	
11	Pulley	PUL142011	1	
12	Lock Nut	OC142012	1	
13	Stub Shaft	SHA142013	1	
14	Spur Gear	GEA142014	1	
15	Spur Gear	GEA142015	1	
16	Spur Gear Assembly	GEA142347	1	Including item 83.
17	Seal Retainer	RET142017	1	
18	Drive Roller Shaft	SHA142018	1	
19	Back Guard	GUA142019	1	
20	Mounting Plate	PLA142020	1	
21	Insulator Pad	INS142021	1	
22	Heater Block	HEA142022	1	
23	Magnet Clamp	CLA140046	1	
24	Socket Housing Bracket	BRA142023	1	
25	Manifold Assembly	MAN142362	1	
26	Main Valve	VAL510507	1	
27	Air Switch	AIR510503	1	
33	Thumb Screw	ADJ531502	1	
34	Thumb Nut	THU531503	1	
35	Lock Nut		1	M12
36	Cap Screw		4	M6x30
37	Oilite Bearing	BEA520005	6	
38	Button Head Screw		2	M5x20
39	Button Head Screw		2	M4x10
40	Dowel		2	5 dia x 30
41	Cap Screw		4	M5x40
42	Extension Spring	SPR530014	1	
43	Cap Screw		1	M3x10
44	Extension Spring	SPR530013	1	
45	Dowel		2	5 dia x 12
46	Button Head Screw		6	M3x8
47	Door Magnet	MAG531004	1	
48	Cap Screw		2	M3x12
49	Cap Screw		6	M6x35
50	Cap Screw		4	M6x60
51	Button Head Screw		2	M5x8
52	Cap Screw		4	M12x175
53	Microswitch	MIC505006	1	
54	Cap Screw		2	M3x16
55	C'SK Screw		2	M3x6
56	Door Handle	HAN530502	1	
57	Button Head Screw		3	M5x10
58	Pot Magnet	MAG531002	1	
59	Oilite Bearing	BEA520002	1	

MODEL 5000SP, MECHANICAL PARTS LIST (page 2)

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>STOCK REF.</u>	<u>QTY.</u>	<u>NOTES</u>
60	Oilite Bearing	BEA520006	1	
61	Shoulder Screw		1	8 dia x 16
62	Roll Pin		2	3/32 dia x 1/2"
63	Socket C'SK Screw		3	M4x10
64	Rewind Cylinder	CYL510004	1	
65	Cap Screw		4	M5x20
66	Heater Assembly	SOC149504	1	
68	C'SK Screw		2	M5x10
69	Hex Nut		2	M5
70	C'SK Screw		1	M4x8
71	Cap Screw		4	M8x60
72	Cap Screw		4	M6x20
73	Dowel		2	8 dia x 40
75	Cap Screw		1	M6 x 40
76	Drive Belt	DR1140038	1	
77	Oilite Bearing	BEA520005	6	
78	Cone Pt Grub Screw		2	M5x10
79	C'SK Screw		12	M3x5
82	Needle Bearing	BEA521002	3	
83	Clutch Bearing	BEA521502	2	
84	Cap Screw		2	M4x40
85	Needle Bearing	BEA521003	1	
86	Key	KEY142025	1	
87	Cone Pt Grub Screw		2	M5x6
88	Ball Bearing	BEA520501	4	
89	Grub Screw		2	M6x8
90	Needle Bearing	BEA521004	2	
91	Cap Screw		2	M3x20
93	Dowel		2	6 dia x 25
94	Piston Seal	SEA512012	2	
95	Compression Spring	SPR530015	2	
96	Front End Cap	CAP142026	1	
97	Main Cylinder Barrel	BAR142027	1	
98	Main Piston	PIS142028	1	
99	Main Piston Rod	PIS142029	1	
100	Main Piston Seal	SEA512020	2	Part of main cylinder seal kit.
101	Wiper Seal	SEA512021	1	Part of main cylinder seal kit.
102	Piston Rod O-Ring	O-R512022	1	Part of main cylinder seal kit.
103	Main Nose Seal	SEA512018	1	Part of main cylinder seal kit.
104	Nose Bearing	BEA520010	1	
105	O-Ring	O-R512019	2	Part of main cylinder seal kit.
106	Nyloc Nut		1	M16
107	Cylinder Mounting Bracket	BRA140002	1	
108	Guide Block	GUI140004	2	
109	End Cap	END140042	1	
110	Brake Disc	BRA140009	1	
111	Brake Arm	BRA140010	1	
112	Brake Pad	BRA490003	1	Pack of 5.
113	Link	LIN140011	1	
114	Link	LIN140012	1	
115	Dancing Arm	DAN140013	1	
116	Pulley	PUL140014	1	
117	Guide Pin	GUI140017	1	
118/119	Drive Roller	DR1141003	1	
120	Piston	PIS140020	2	
121	Pinch Roller Shaft	SHA141005	1	
122	Pinch Roller Assembly	ROL142387	1	Including item 90.
123	Dancing Bar	DAN141007	1	
124	Bearing Spacer	SPA140025	2	
	Inner Boss	BOS140024	2	
126	Roller Spindle	SPI141008	2	
127	Foil Roller Assembly	ROL142386	2	Including item 77.
128	Side Locator	SID141013	2	
129	Foil Spindle	SPI141014	2	

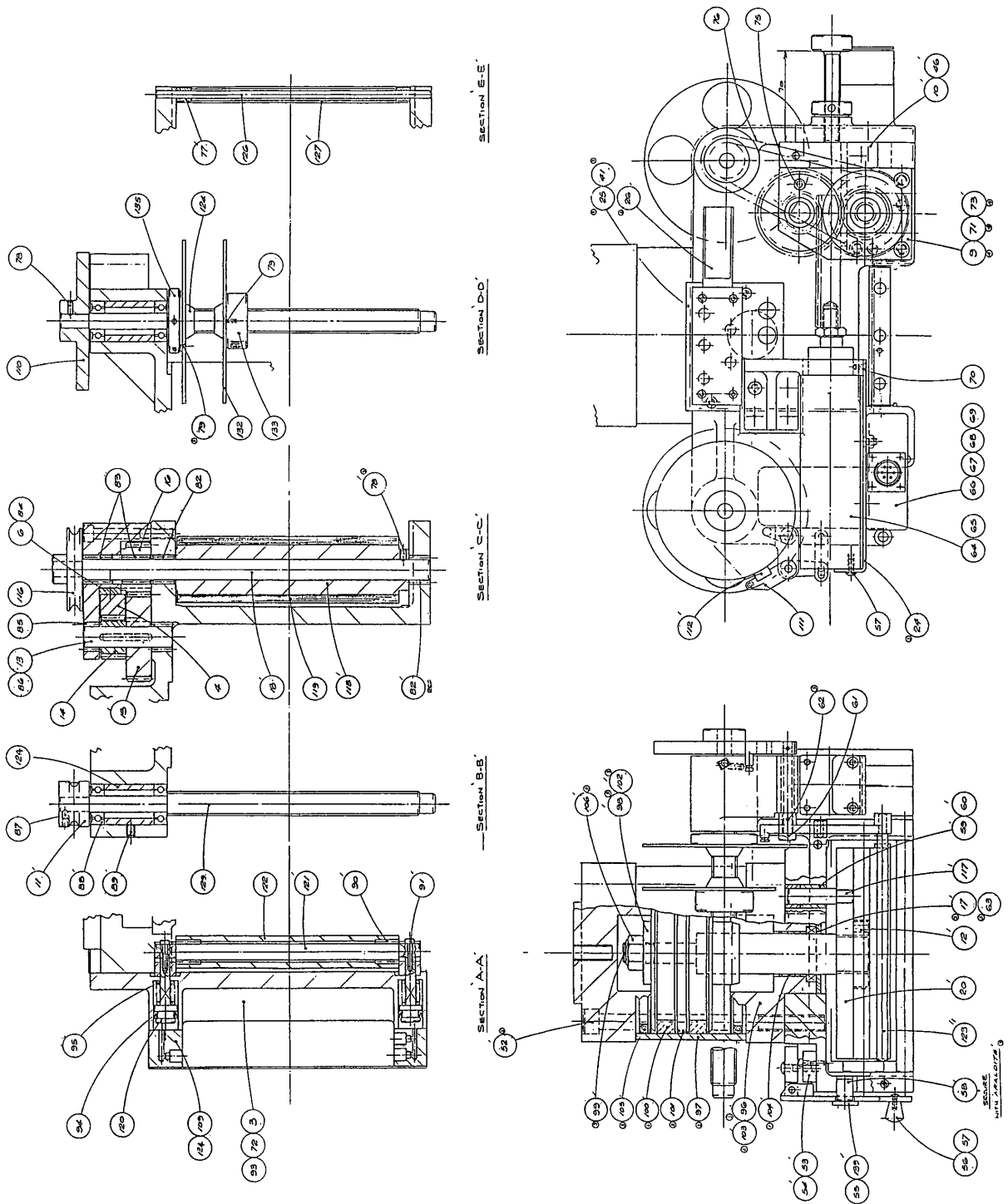
MODEL 5000SP, MECHANICAL PARTS LIST (page 3)

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>STOCK REF.</u>	<u>QTY.</u>	<u>NOTES</u>
130	Shaft	SHA140034	1	
131	Side Cover	COV141015	1	
132	Disc	DIS140040	4	
133	Outer Boss	BOS140041	2	
134	End Cap	END140005	1	
135	Lock Nut	LOC140043	2	
136	Anchor	ANC140048	1	
137	Spring Post	SPR140049	1	
138	Cover Plate	COV142030	1	
139	Magnet Catch Plate	PLA140039	1	

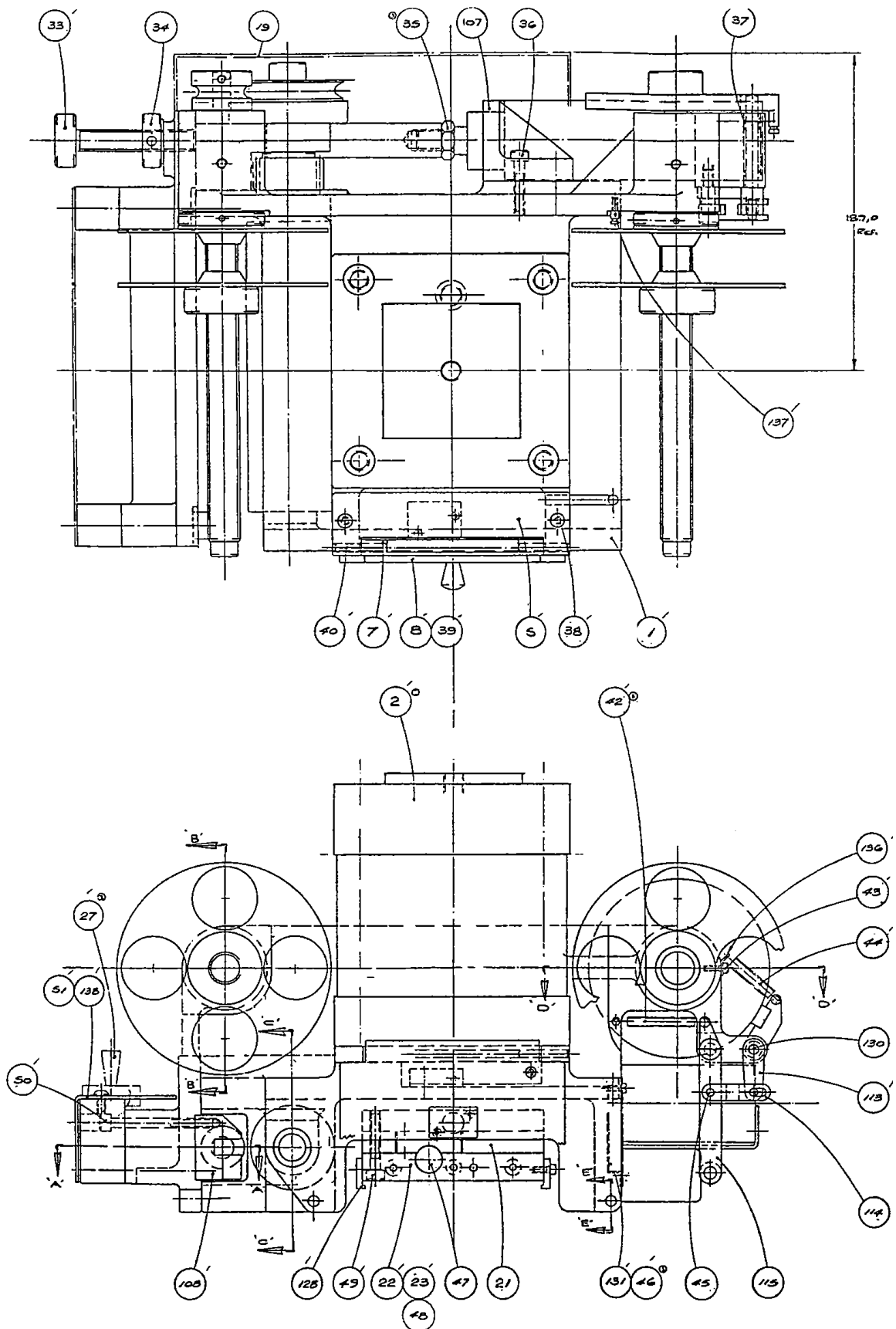
ADDITIONAL SPARE PARTS AND REPAIR KITS

<u>PNEUMATIC</u>		
Main Valve Seal Kit		SEA512023
Rewind Cylinder Seal Kit		SEA512025
Main Cylinder Seal Kit		SEA512029
<u>ELECTRONIC</u>		
Cartridge Heater, 240v		HEA501505
Thermistor Probe		THE500501
End of Foil Sensor (if fitted)		PHO505612
Plug-In Printer Control Card, 240v, Box Mount (horizontal)		CPC290500
For other control card variants, please contact the sales office.		

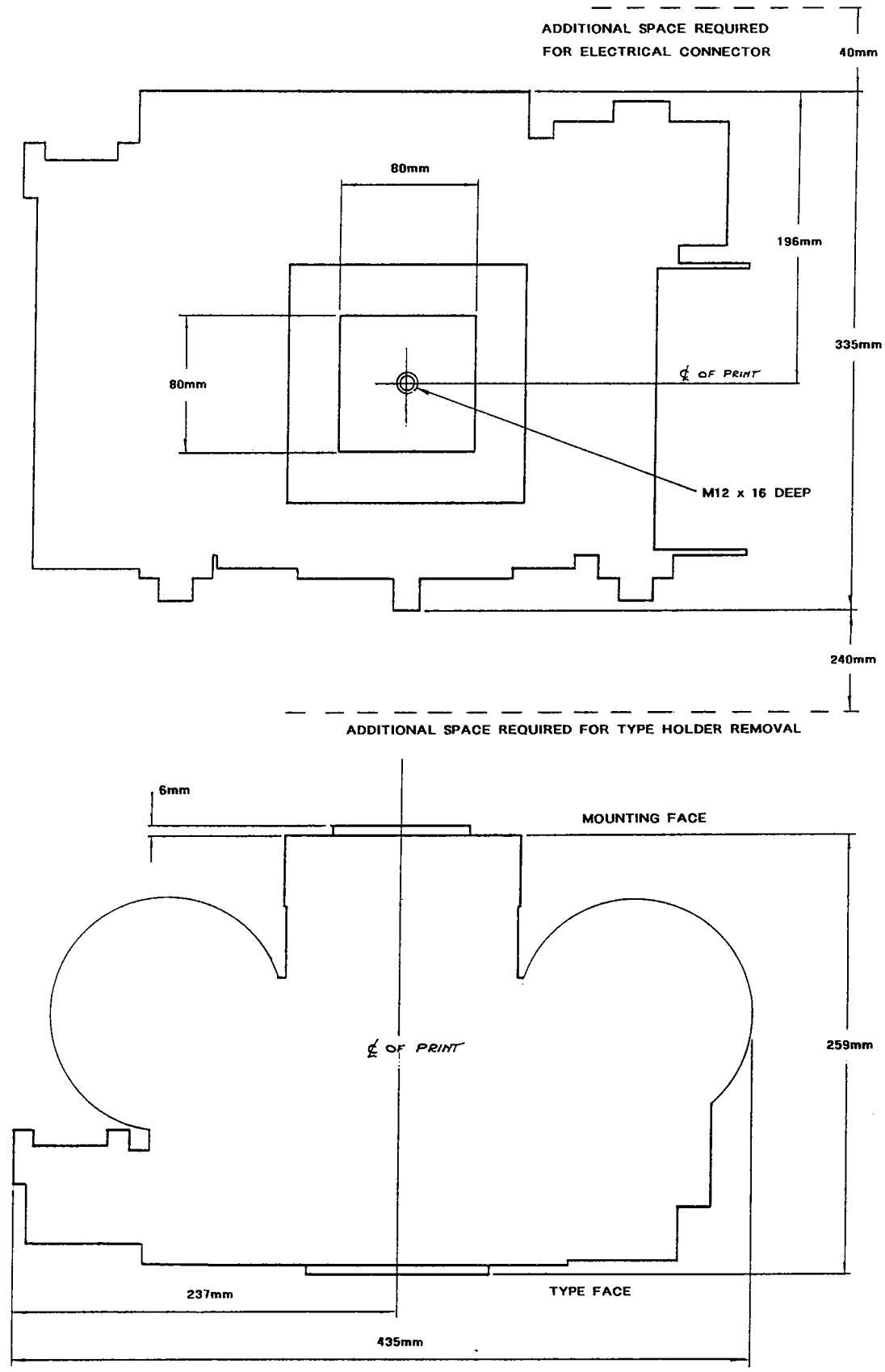
Model 5000SP Assembly Details (1 of 2)



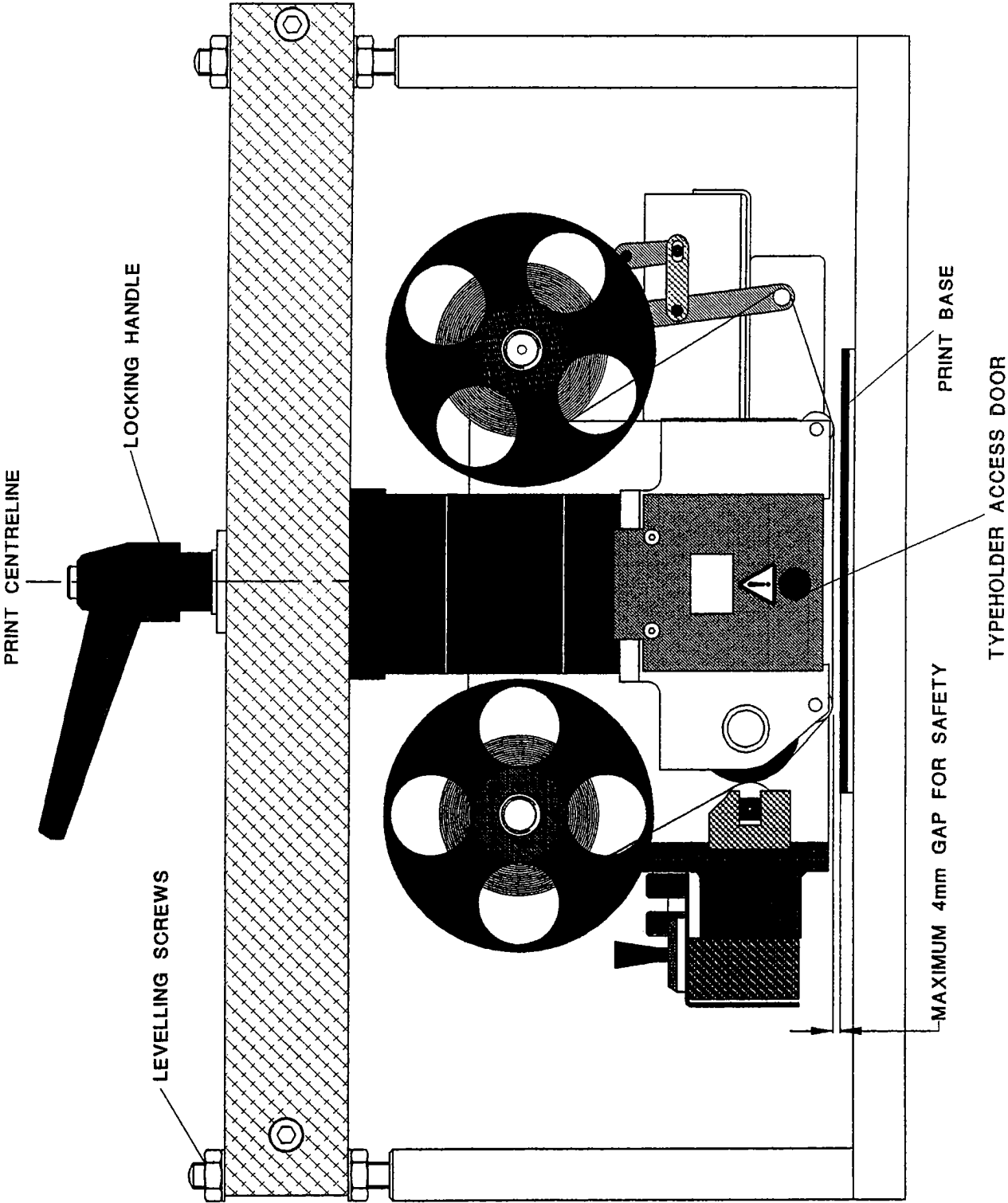
Model 5000SP Assembly Details (2 of 2)



Model 5000SP Installation Dimensions



Model 5000SP Frame Installation



5000SP AIRBORNE NOISE EMISSIONS

Comprehensive tests have been carried out with the machine fitted in a standard printer frame and mounted onto a typical label applicator. Measurements were taken at 1.6 metres above floor level and approximately 1 metre away from the printer in all directions.

The measuring equipment used for conducting the tests was a Digital Sound Level Meter, type d-1405E supplied by Lucas CEL. Before the tests were carried out the instrument was calibrated and fitted with a foam windshield.

The results shown below are based upon a standard type installation for the printer, the operating air pressure was set at 6 bar and the air flow restrictors correctly adjusted.

The noise levels shown below are the equivalent continuous "A-weighted" sound pressure levels in decibels "dB(A)".

PRINTS PER MINUTE	NOISE LEVEL - DECIBELS (dB)
50	74
100	76
125	77
150	77

STANDARD WARRANTY TERMS AND CONDITIONS – HOT FOIL PRINTERS

All Open Date Hot Foil Printers Carry a twelve (12) month return to base (at our discretion) warranty.

Open Date printers should be installed and operated according to the instructions given in the operating manual. No liability will be accepted for faults caused by incorrect installation or operation of the equipment or if the product has been altered or subjected to unreasonable use.

The following components are not covered by the warranty as they will be subject to wear and tear: -

1. Print base rubber.
2. Hardened steel type.

Should you have cause to claim for repair under warranty then please contact our service department stating the model, serial number of the product and the nature of the problems or faults.

We reserve the right to charge for components replaced during the warranty period, which are subsequently found to be damaged due to any of the above conditions not being followed.

Any items repaired or replaced under warranty will carry the balance of the original warranty period only.

OPEN DATE GROUP COMPANIES

FRANCE

OPEN DATE FRANCE

Z.I. D'Attichy
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60350 Attichy.

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Local Fax:- 03 44 42 17 17

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OPEN DATE GmbH

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U.S.A.

OPEN DATE SYSTEMS INC.

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Georges Mills
NH 03751-0538.

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INTERNATIONAL AGENTS & DISTRIBUTORS

Please visit:

www.opendate.co.uk

for a list of international agents & distributors.