SPRINT

OPERATOR INSTRUCTIONS
PARTS LISTING
CIRCUIT DIAGRAMS
INSTALLATION DETAILS

Designed and manufactured by:

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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	**Sprint**
Type	.....
Serial number	.....
Manufactured by	**Open Date Equipment Limited.**
Address	**Units 8 & 9, Denvale Trade Park, Morden Road, Mitcham, Surrey, CR4 4DD, 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 distances to prevent danger zones being reached by the upper limbs.

EN60204: part 1, 1992. Safety of Machinery - Electrical equipment of machines - Specification for general requirements.

EN50081: part 1, 1992. Electromagnetic compatibility - Generic emission standard.

EN50082: part 2, 1992. 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.

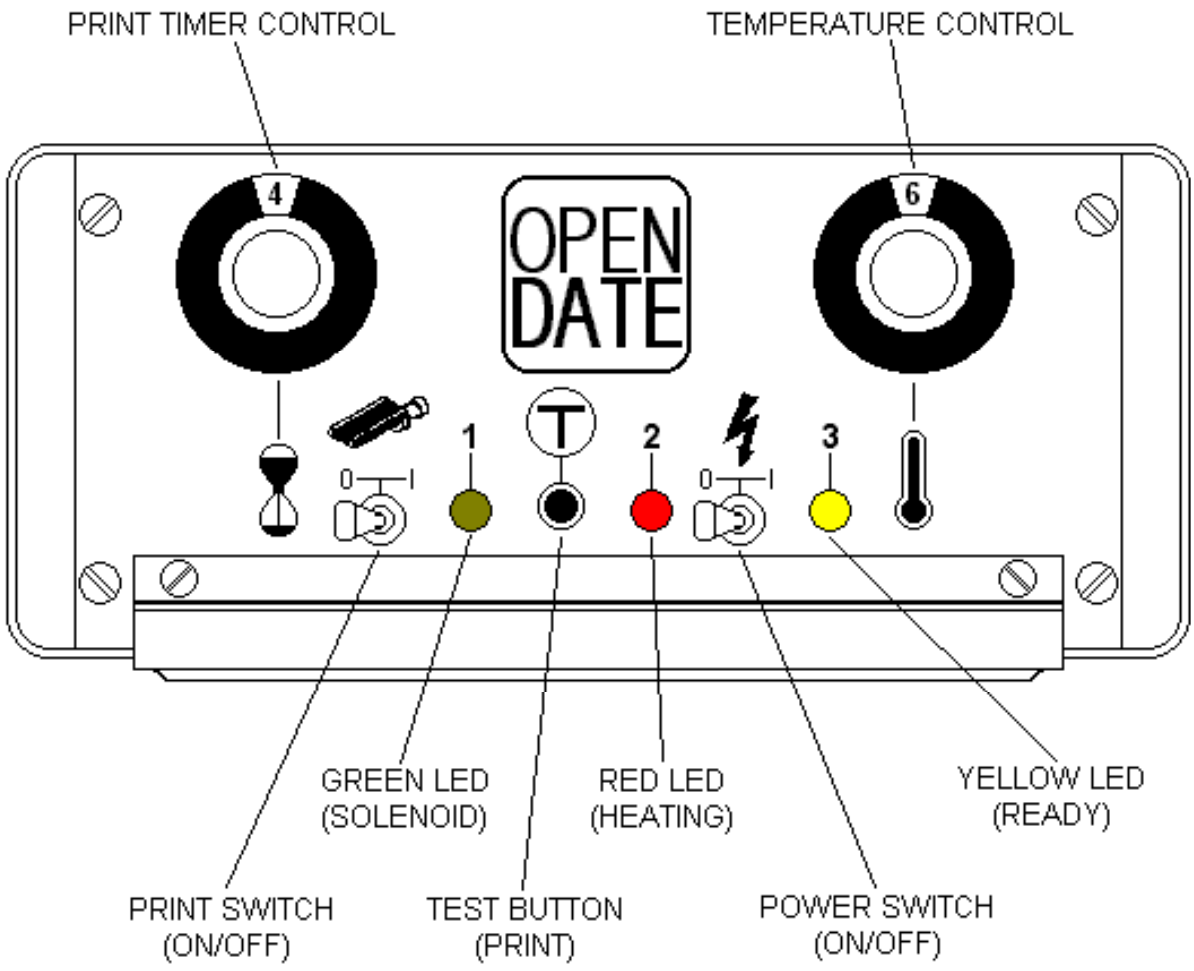
LED 1 (green) — Indicates that the solenoid valve circuit is in order. Switches off during the print cycle, when the foil alarm sounds and when the type/die holder door is open.

LED 2 (red) — Lights when the printhead is heating.

LED 3 (amber) — Indicates that the printhead is at operating temperature.

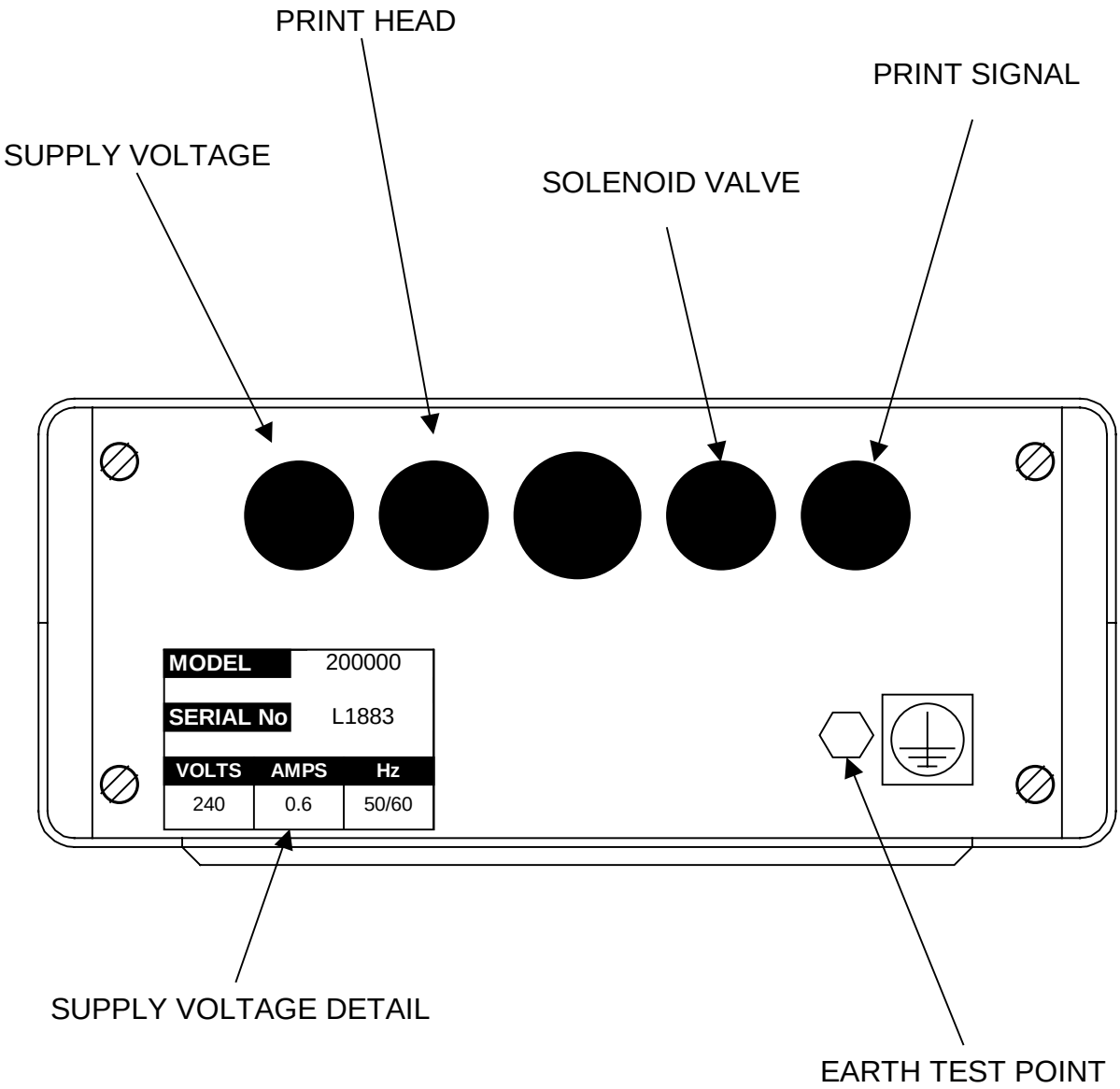
NOTE. — It is normal for the red and amber LED's (lights) to alternate every minute or so. This indicates that the operating temperature is being maintained.

ELECTRONIC CONTROL UNIT
FRONT PANEL LAYOUT



ELECTRONIC CONTROL UNIT
REAR PANEL

(Cables omitted for clarity)



OPERATING INSTRUCTIONS

FOIL THREADING (refer to pages 8 & 27)

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

FITTING TYPE / DIE HOLDER

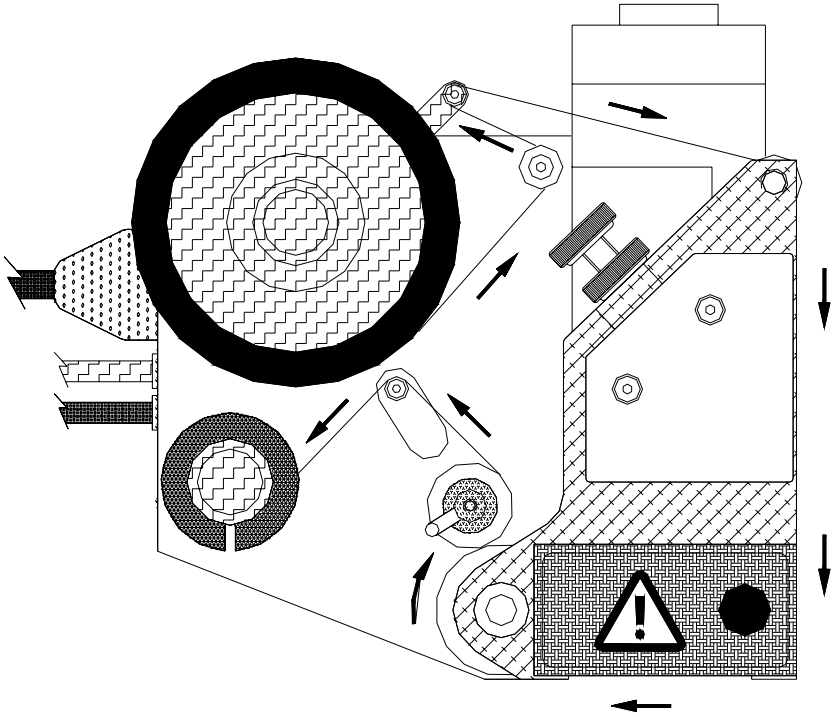
NEVER ASSUME THAT A TYPE / DIE HOLDER IS COLD.

Only pick up the type/die holder by its handle. Ensure that the face of the magnetic catch is clean, open the red type holder access door (the alarm will sound unless the print switch is off), align the type/die holder within the two side locators and slide in until the magnet catches on the keep plate. Close the door.

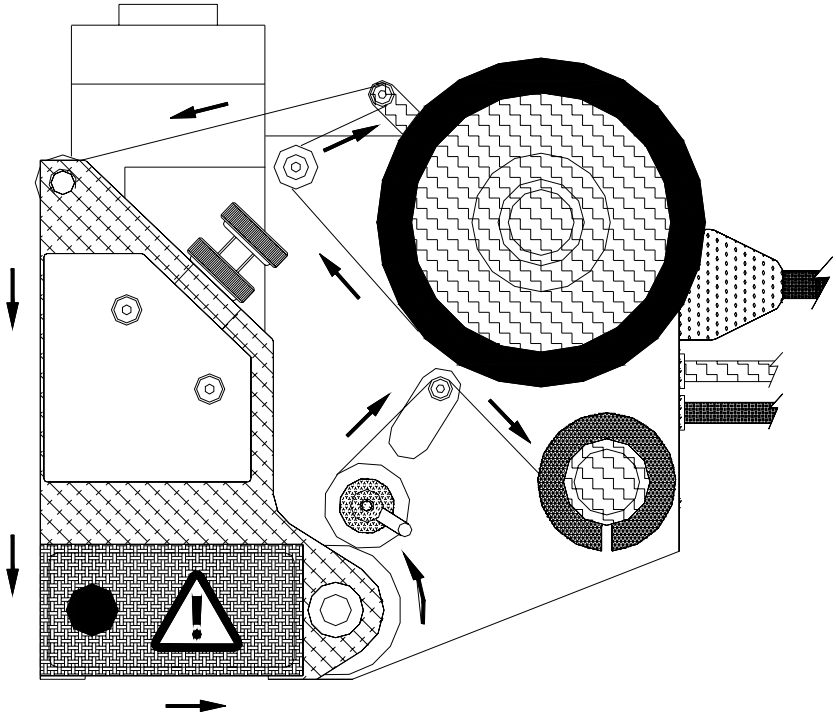
FOIL FEED ADJUSTING SCREW (refer to page 27)

This adjusts the amount of foil used per print and is located at the front of the printer, above the red type holder door. 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.

SPRINT
FOIL THREADING DIAGRAMS



RIGHT HAND PRINTER



LEFT HAND PRINTER

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 (Continued)

PRINT TIMER ADJUSTMENT (refer to pages 4 & 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.

AIR FLOW CONTROLS (refer to page 11)

The air flow restrictors are usually attached to the solenoid valve exhaust ports. 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 print ram velocity, it will also affect noise levels.

Increasing the exhaust air flow from the forward stroke of the print ram will increase the print pressure. Decreasing the exhaust air flow will reduce print pressure and the resulting print will be lighter.

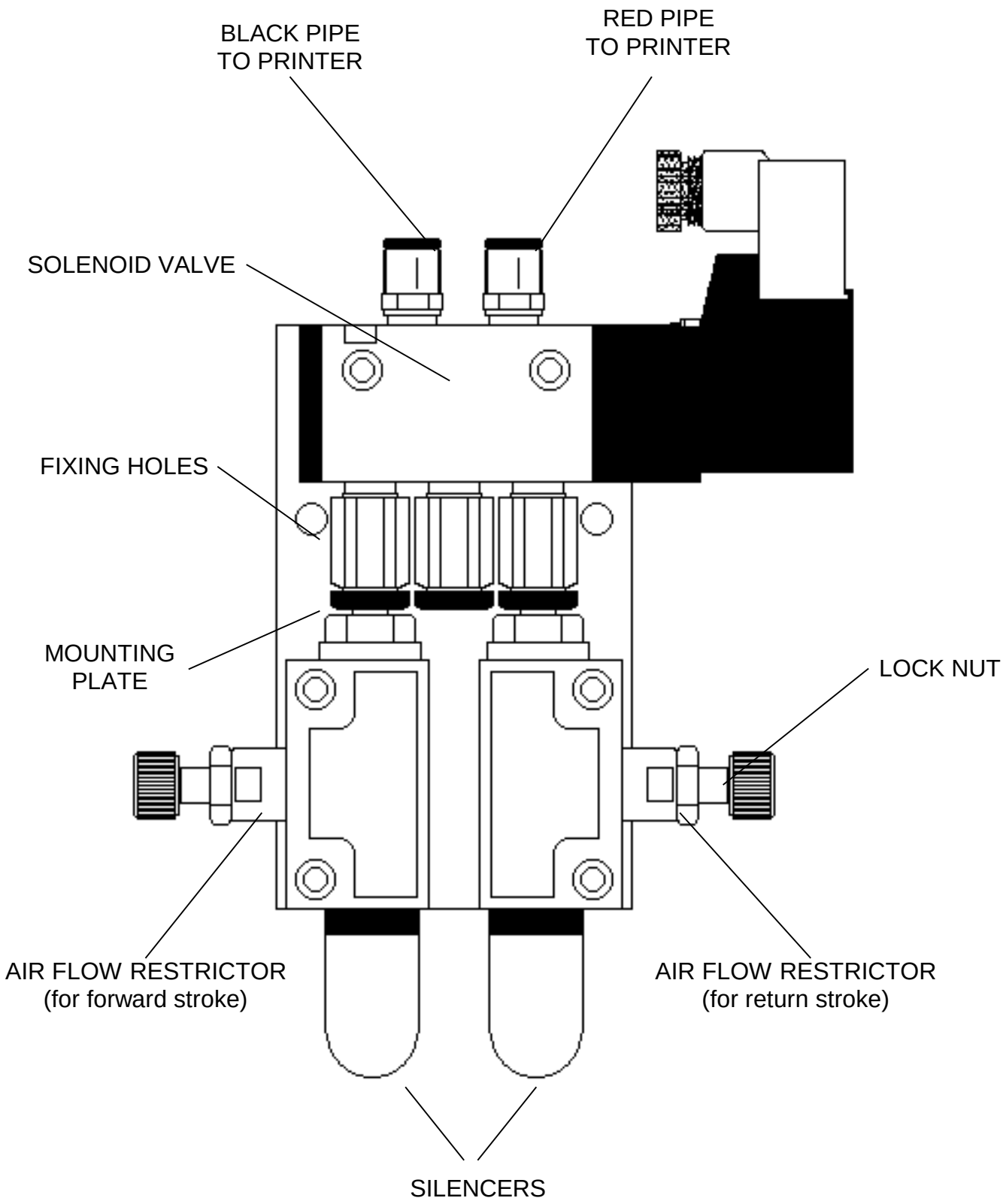
The drive for the printing foil is taken from the return stroke of the print ram. Increasing the exhaust air flow will speed up the foil feed. To ensure efficient foil feeding, the return stroke should be as gentle as possible.

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

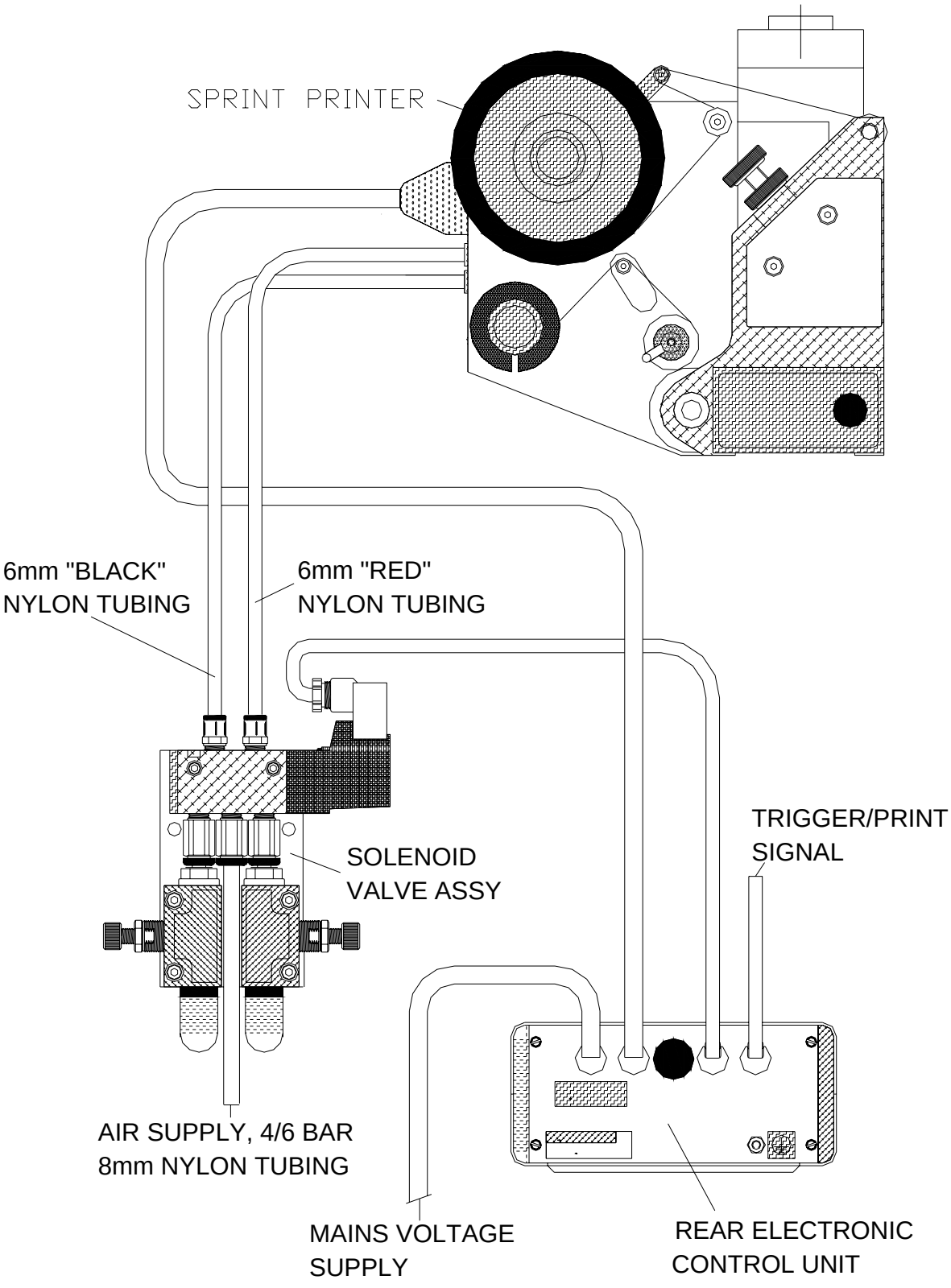
Note!

It is very important that the print ram returns fully before the next print cycle commences.

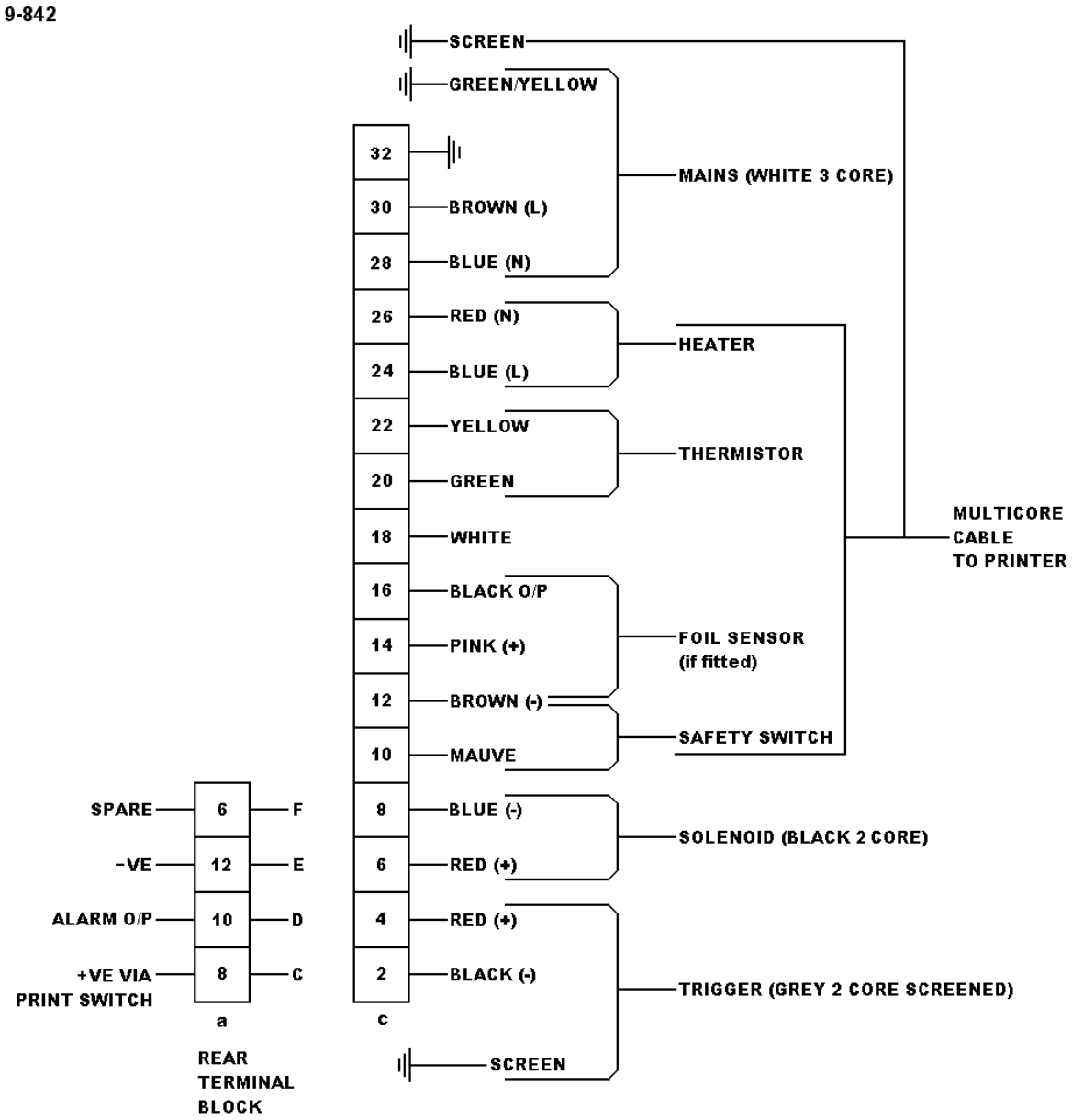
SOLENOID VALVE DETAILS



SPRINT INTERCONNECTION DETAILS

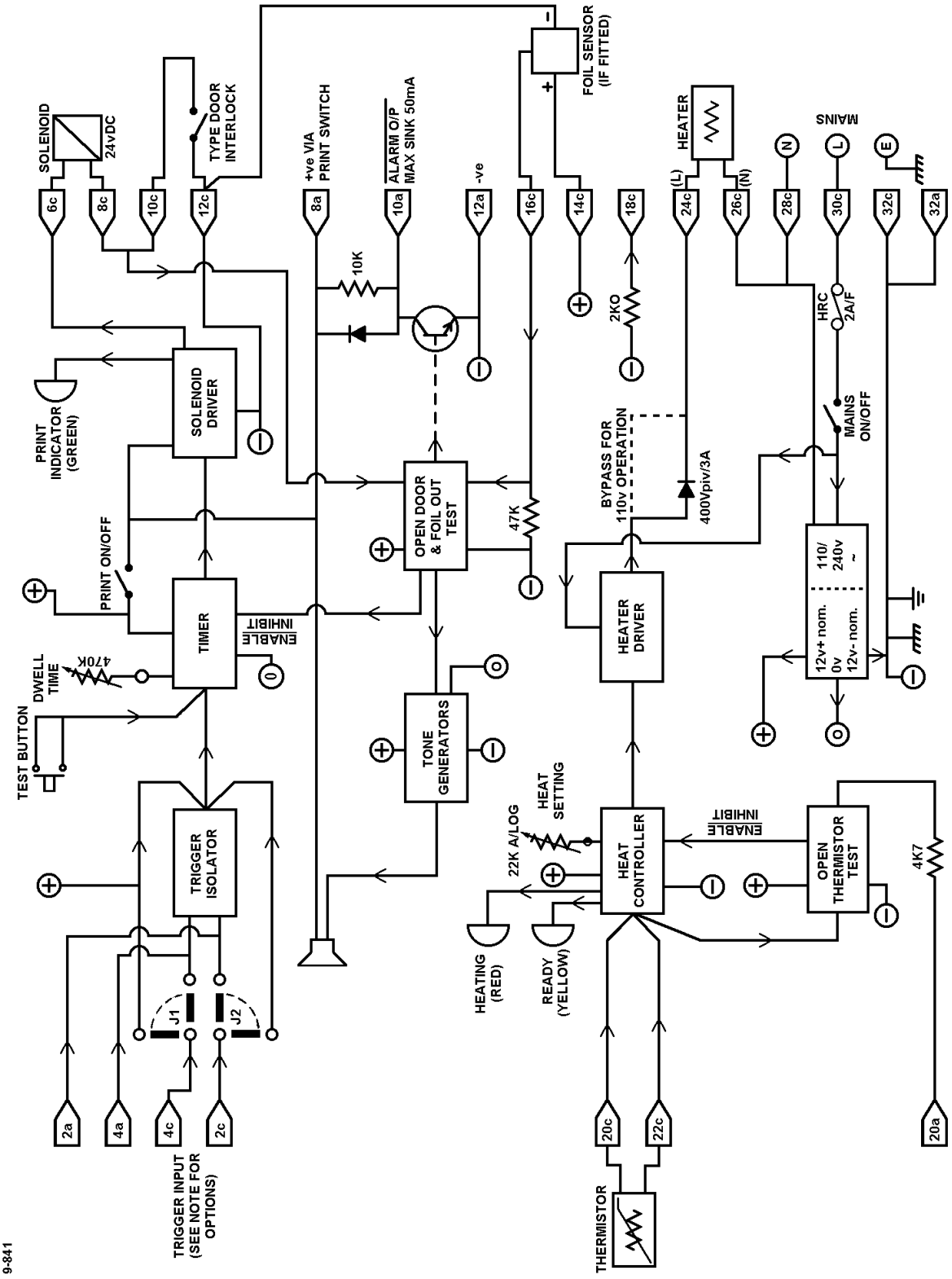


INTERNAL WIRING DIAGRAM (ELECTRONIC CONTROL UNIT) EUROCODE & SPRINT SERIES
Drawing No. 9-842



CABLE SOCKET

BLOCK DIAGRAM FOR EUROCODE & SPRINT SERIES CONTROLLER Drawing No. 9-841



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.

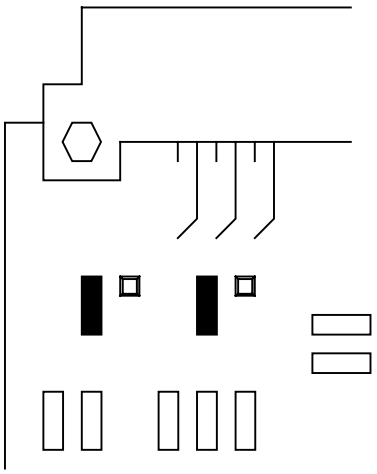


Figure 1.
Jumpers set for 10 to 50 volts DC print signal.

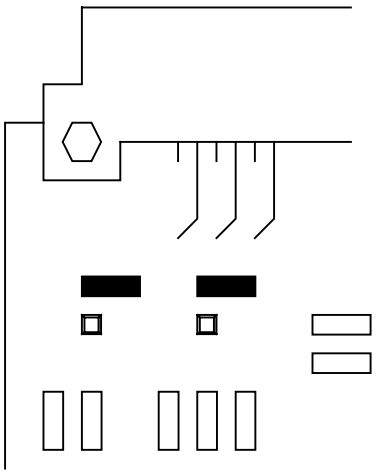
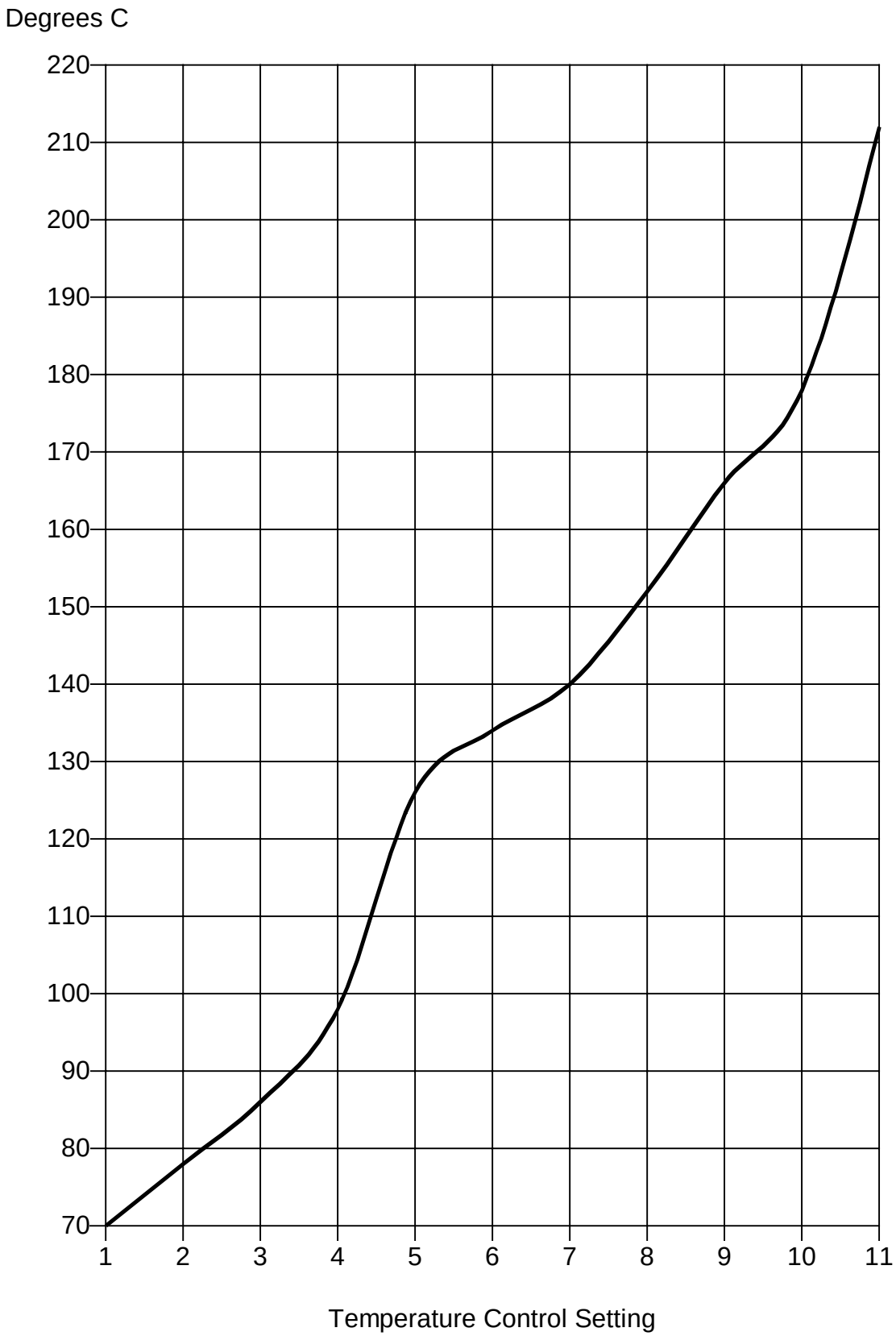


Figure 2.
Jumpers set for normally open print signal.

Printhead Temperature Relative to Settings (nominal).



SPRINT 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.	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.
Alarm sounds continually.	Type holder door open. Safety microswitch failure. Printer plug not properly mated. 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.

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.

PRINT QUALITY DETERIORATION.

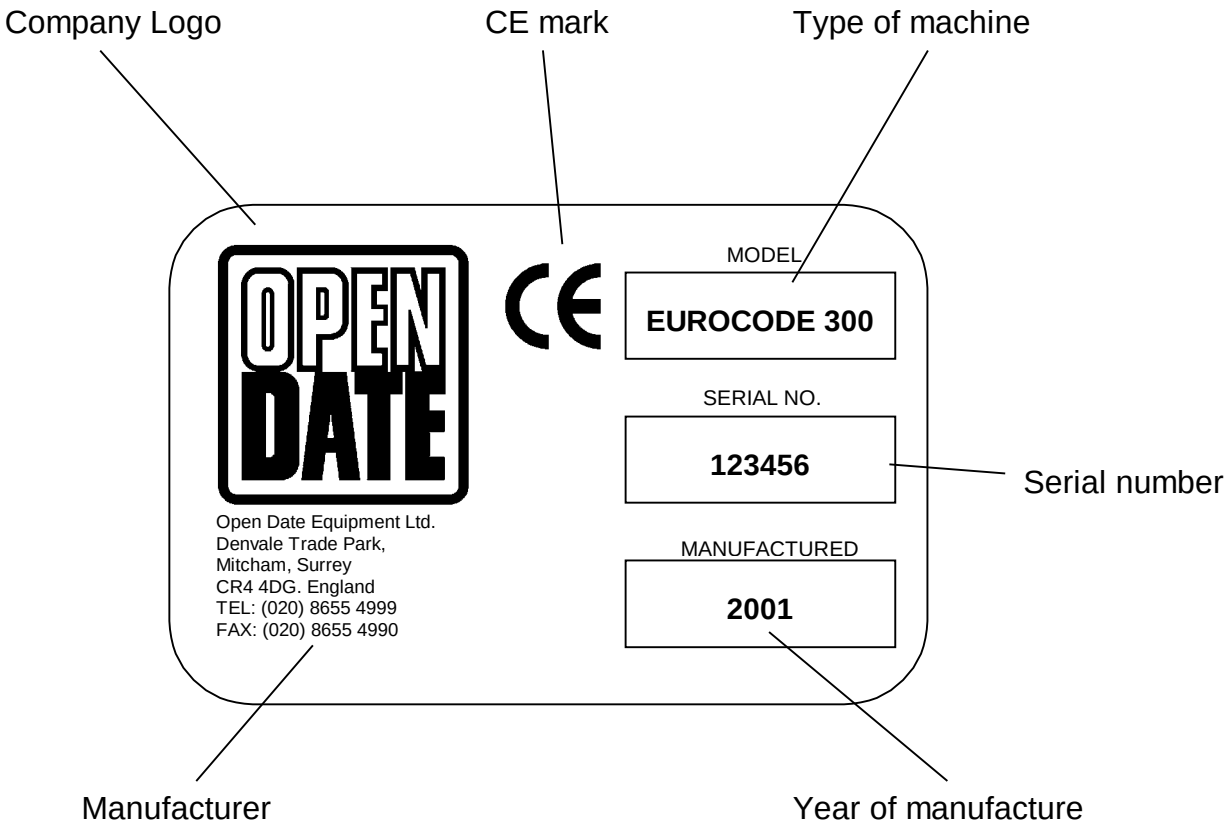
Print quality deterioration can be attributed to any of the following causes;

POSSIBLE CAUSE	CURE
Insufficient foil pull	See pages 7 & 27 (Foil Feed Adjustment)
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:

SPRINT HOT FOIL PRINTER

MECHANICAL			STOCK REF
	1.	Spring Set	SPR135216
	2.	Drive Belt	DRI130014
	3.	Drive Roller	DRI120019
	4.	Fork End Roller Assembly	FOR129506
	5.	Brake Strap	BRA490003
	6.	Grey Self Adhesive Print Base 300 x 450mm sheet	SABASE
or	7.	White Silicone Rubber Print Base 300 x 300 x 3mm thick sheet	SRBASE

ELECTRICAL			
	1.	Cartridge Heater (240v)	HEA501507
	2.	Thermistor Probe	THE500503
	3.	Microswitch for Door	SWI395002
	4.	Plug-In Control Card (240v)	CPC290500
	5.	Pack of Fuses (5)	FUS393500
	6.	Solenoid Valve without fittings	VAL510517

Note. The stock reference for the plug-in control card listed above (item 4) refers to the 240v, horizontal (box mount) unit. Other variations are available which your printer may have been supplied with. If in doubt, please advise the serial number of your existing unit to our sales office.

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

SPRINT MECHANICAL PARTS LIST (page 1)

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

	ITEM	DESCRIPTION	STOCK REF.	QTY	NOTES
	1	Main Body	N/A	1	
	2	Mounting Bracket	N/A	1	
	3	Foil Adjusting Screw	ADJ130003	1	
	4	Back Disc	DIS130005	1	
	5	Front Guard	GUA130006	1	For R/H printer only.
or		Front Guard	GUA130503	1	For L/H printer only.
	6	Button Screw		2	M4 X 10
	7	Button Screw		4	M4 X 8
	8	Csk. Screws		2	M3 X 6
	9	Microswitch Guard	GUA130007	1	
	10	Door Switch Assembly	SWI395002	1	
	11	Cap Screw		2	M4 x 8
	12	Back Pad	BAC130008	1	
	13	Csk. Screw		6	M4 X 8
	14	Handle	HAN530502	1	Part of item 120.
	15	Magnet	MAG120078	1	Part of item 120.
	16	Cap Screw		2	M3 x 16
	17	Dowel Pin	2	Part of Item 120.	
	18	Drive Roller Shaft	SHA130009	1	
	19	Clutch Bearing	BEA521501	2	
	20	Grub Screw		1	M4 x 8
	21	Pan Head Screw		8	No. 2-56 x 1/8"
	22a	Take-Off Hub Assembly	HUB135141	1	Includes items 4,21,23,118.
	22b	Rewind Hub Assembly	HUB135146	1	Includes items 21,23,97,118.
	23	Hub Spindle	SPI130011	2	Part of items 22a & 22b.
	24	Ball Bearing	BEA520502	6	
	25	Main Guard	GUA130012	1	For R/H printer only.
or		Main Guard	GUA130504	1	For L/H printer only.
	26	Pan Head Screw		2	M4 x 10
	27	Drive Boss	BOS130013	1	
	28	Grub Screw		1	M4 X 5
	29	Drive Belt	DRI130014	1	Part of Spring Set.
	30	Grub Screw		1	M4 X 6
	31	Timing Pulley	PUL130015	1	
	32	Cap Screw		3	M3 X 10
	33	Pulley	PUL130016	1	
	34	Needle Bearing	BEA521001	5	
	35	Main Shaft	SHA130017	1	For R/H printer only
	36	Circlip		1	
	37	Washer		1	
	38	Timing Pulley with Clutch	PUL135151	1	For R/H printer only, Includes 19.
or		Timing Pulley with Clutch	PUL135156	1	For L/H printer only, Includes 19.
	39				
	40	Cap Screw		4	M6 x 45
	41	Csk. Screw		1	Part of item 120.
	42	Magnet	MAG531001	1	Part of item 120.
	43				
	44				
	45	Pinch Roller Spindle	SPI130021	1	
	46	Pinch Roller Assembly	ROL135166	1	Includes 2 off item 34.
	47	Grub Screw		1	M4 X 5
	48	Lever	LEV130020	1	
	49	Csk. Screw		1	M4 X 12
	50	Plug Housing	HOU130023	1	
	51	Spring post	SPR130024	1	
	52	Button Screw		2	M3 x 8
	53	Button Screw		3	M4 x 8

SPRINT, MECHANICAL PARTS LIST (page 2)

	ITEM	DESCRIPTION	STOCK REF.	QTY	NOTES
	54	Cap Screw		3	M4 X 20
	55	Back Pad	BAC130025	1	
	56	Mounting Plate	N/C	1	
	57	Brake Hub	BRA130026	1	
	58	Grub Screw		1	M4 X 6
	59	Button Screw		3	M3 X 6
	60	Extension Spring	SPR530020	1	Part of Spring Set
	61	Extension Spring	SPR530009	1	Part of Spring Set
	62	Extension Spring	SPR530018	1	Part of Spring Set
	63				
	64	Lever	LEV130028	1	
	65	Dancing Arm Assembly	DAN135186	1	For R/H printer only, Includes 95.
or		Dancing Arm Assembly	DAN135191	1	For L/H printer only, includes 95.
	66	Stop	STO120039	3	
	67	Brake Arm	BRA130030	1	For R/H printer only.
or		Brake Arm	BRA130506	1	For L/H printer only.
	68	Brake Pad	BRA490003	1	Pack of 5.
	69	Spring Post	SPR130031	1	
	70	Extension Spring	SPR530019	1	Part of Spring Set
	71	Manifold Assembly	MAN135181	1	
	72	Cap Screw		4	M3 x 10
	73	Wiring Assembly	PLU399410	1	
	74	Timing Belt	BEL522501	1	
	75	Pan Head Screw		4	No.2-56 x 1/4"
	76	Grub Screw		1	M6 X 6
	77	"O" Ring	O-R512005	1	
	78	Piston Seal & "O"Ring	SEA512008	1	
	79	"O" Ring	O-R512016	1	
	80	Guide Bearing	BEA520009	1	
	81	Nose Seal	SEA512007	1	
	82	Lock Nut		1	
	83	Cap Screw		1	M10
	84	Roller	ROL130033	3	
	85				
	86	Cap Screw		1	M4 X 10
	87	Dowel Pin		1	
	88	Grub Screw		2	M5 x 6
	89	Top Cylinder Bearing	BEA520002	1	
		Nose Bearing	BEA120071	1	
	90	Roll Pin		1	
	91	Nut		2	M3
	92	Washer		4	M3
	93				
	94	Dancing Arm Assembly	DAN135206	1	For R/H printer only. Includes 95.
or		Dancing Arm Assembly	DAN135211	1	For L/H printer only. Includes 95.
	95	Dancling Bar	DAN121006	2	Part of item 65,94
	96	Roller	ROL121007	2	
	97	Back Disc	DIS121009	1	Part of item 22b
	99	Guide Pin	GUI120004	1	
	100	Fork End Assembly	FOR129506	1	Includes items 87,101
	101	Roller		1	Part of item 100.
	102	Cam	CAM120007	1	
	103	Torsion Spring	SPR530006	1	Part of Spring Set.
	104	Piston	PIS120009	1	Piston/Seal Assembly PIS125050
	105	Insulator Plate	INS120012	1	
	106	Heater Block	HEA120013	1	
	107	Side Locator	SID120014	2	
or		Side Locator	SID122503	2	For Sprint Plus only.
	108				
	109	Drive Roller	DRI120019	1	
	110	Pivot Bush	BUS120043	1	

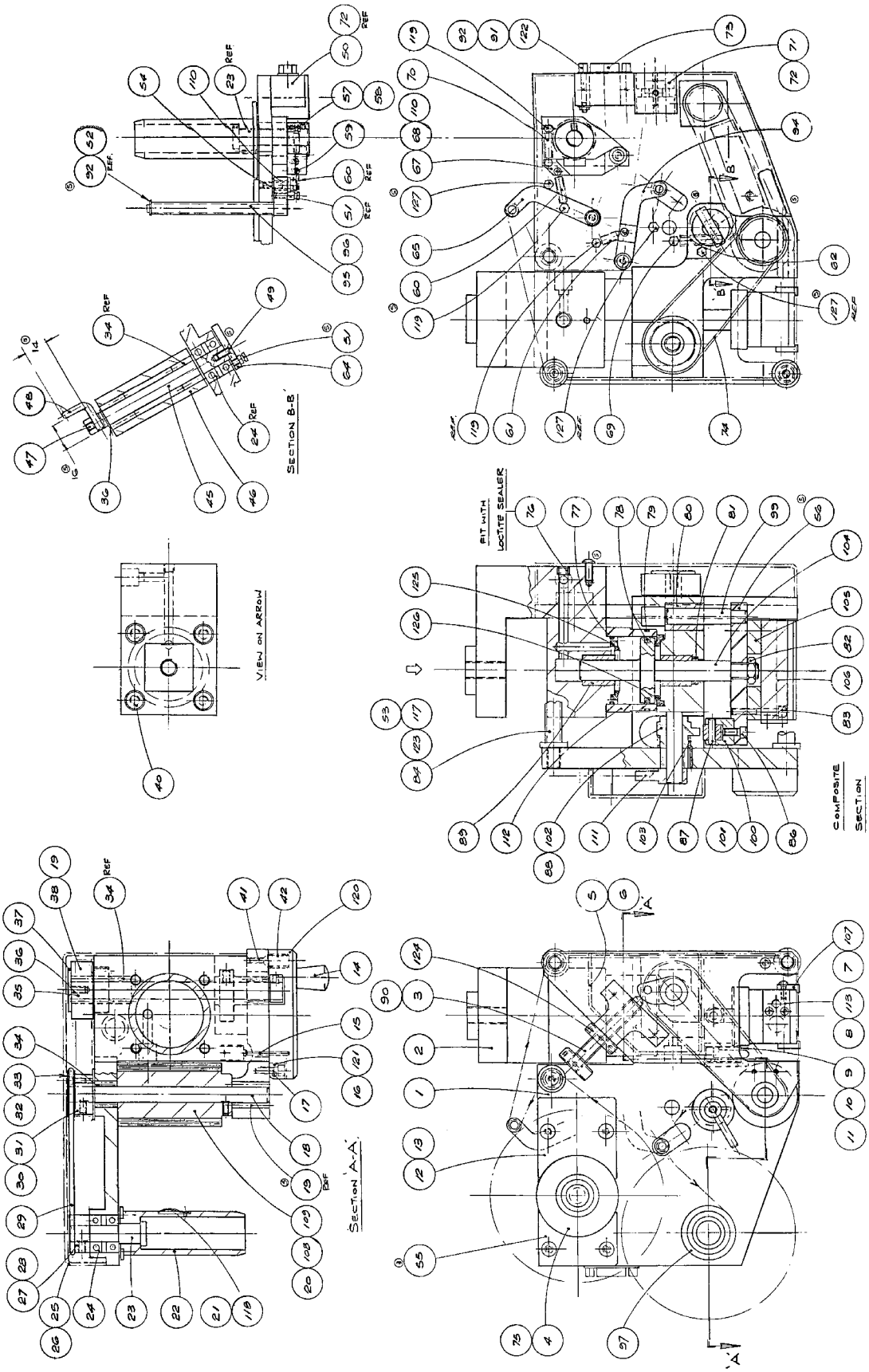
SPRINT, MECHANICAL PARTS LIST (page 3)

ITEM	DESCRIPTION	STOCK REF.	QTY	NOTES
111	Lever	LEV120028	1	
112	Cylinder Barrel	BAR120029		
113	Keep Plate	KEE120030	1	
114	Pivot Bush	BUS120032	2	
115	Spindle	SPI120044	1	
116				
117	Washer	WAS120035	3	
118	Spring Clip	SPR530001	8	part of items 22a 22b & Spring Set
119	Spring Post	SPR120058	3	
120	Door Assembly	DOO125152	1	INCLUDES ITEMS 14,15,17,42,121
121	Hinge Block	HIN120062	1	Part of item 120.
122	Socket Mounting Screw	SCR120070	2	
123	Roller Spindle	SPI120044	3	
124	Thumb Nut	THU120023	1	
125	Rear Cushion	DAM120074	1	
126	Front Cushion	DAM120075	1	
127	Stop Pin	STO120039	3	

ADDITIONAL SPARE PARTS AND REPAIR KITS

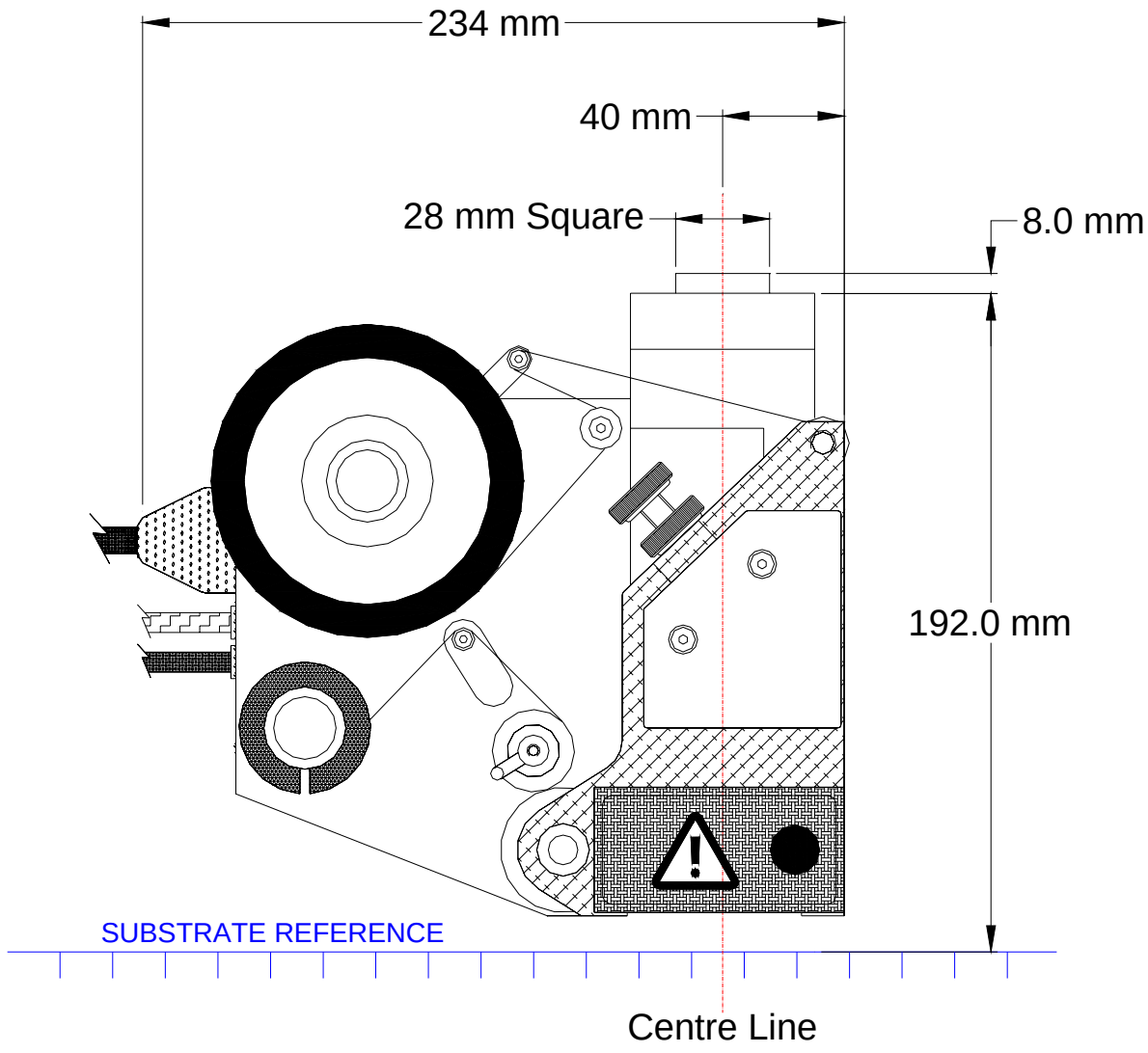
PNEUMATIC	
Solenoid valve without fittings	VAL510517
ELECTRONIC	
Cartridge Heater, 240V, 250w	HEA501507
Thermistor probe	THE500503
Safety proximity switch	SWI395002
"End of foil alarm" sensor (if fitted)	PHO505612
Plug-in printer control card, 240V, box mount (horizontal)	CPC290500
REPAIR KITS	
Spring set containing all springs plus drive belt	BEL135216

SPRINT ASSEMBLY DETAILS – ISSUE 8

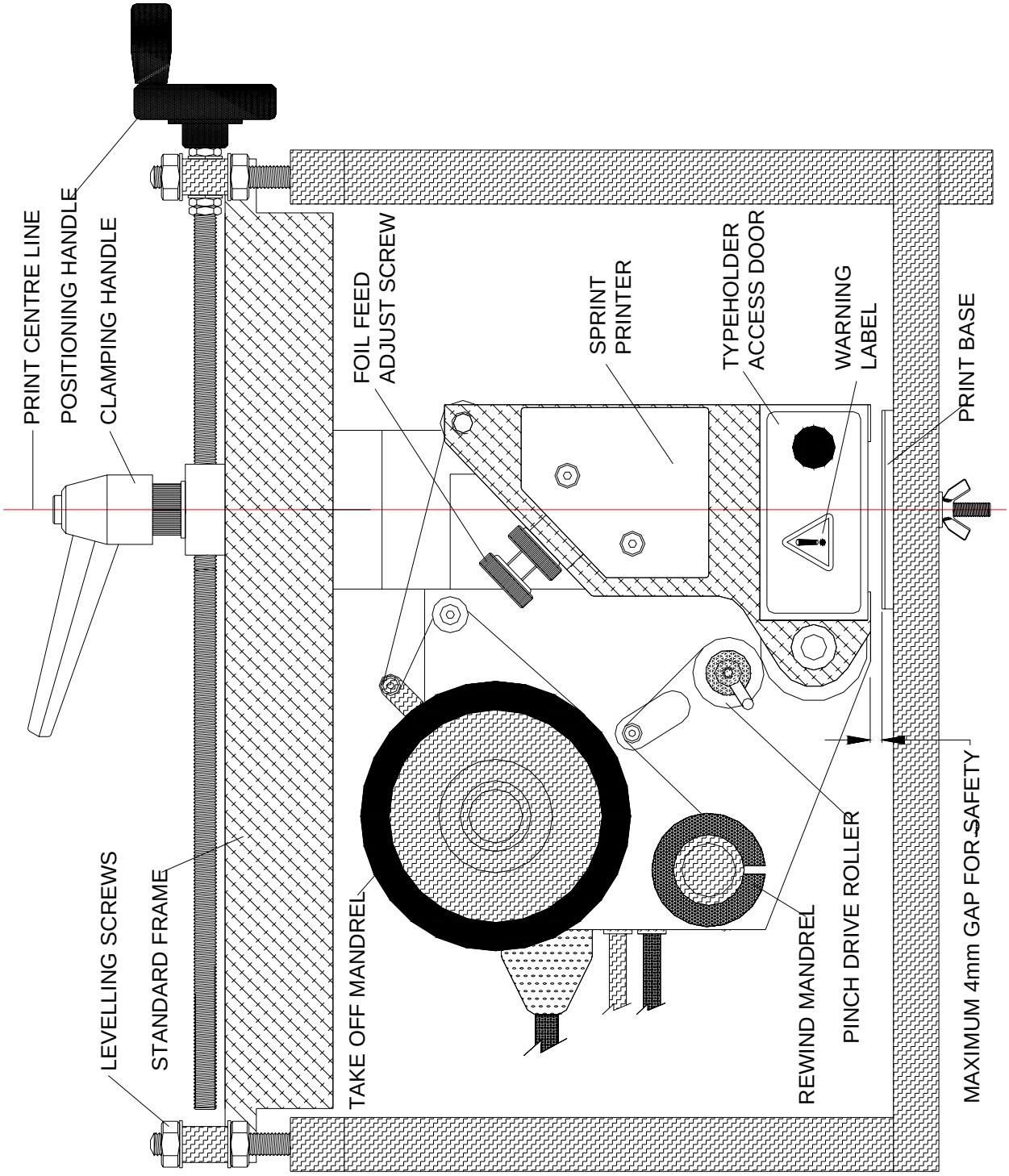


SPRINT DATA SHEET

Installation Dimensions



SPRINT STANDARD FRAME INSTALLATION



SPRINT

AIRBORNE NOISE EMISSIONS.

Comprehensive tests have been carried out with the Sprint 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	65
100	67
150	70
200	71

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

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Please visit:

www.opendate.co.uk

for a list of international agents & distributors.