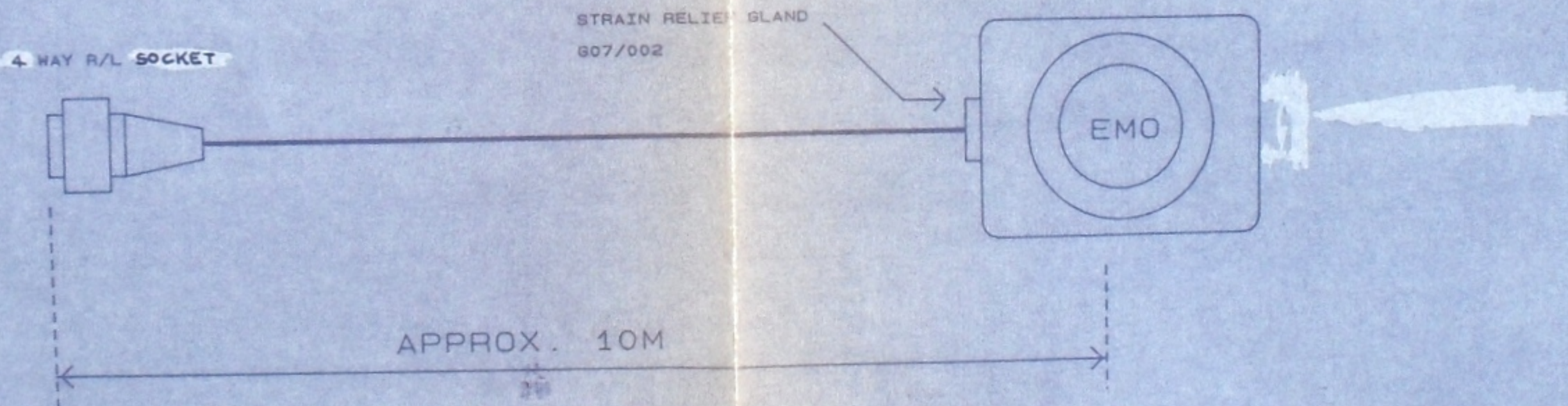
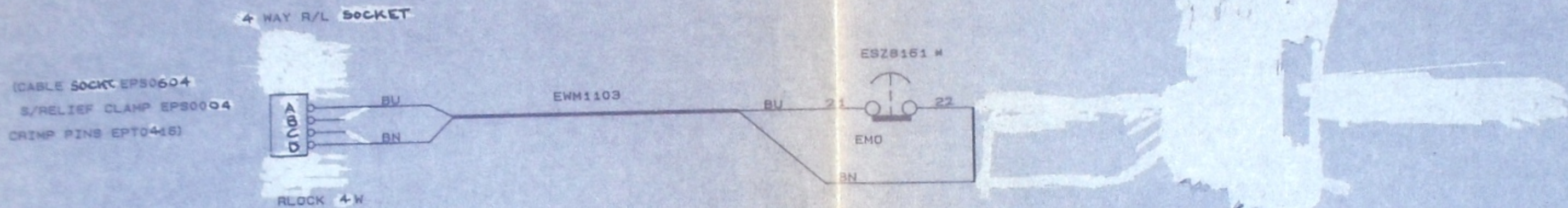


Current loop converter

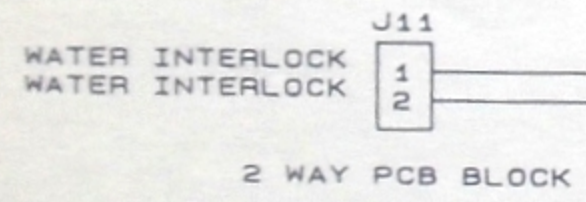
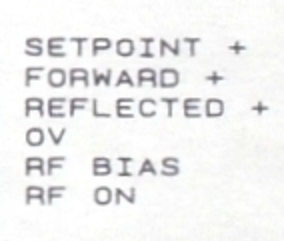
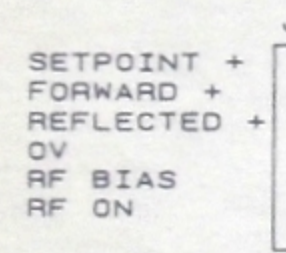
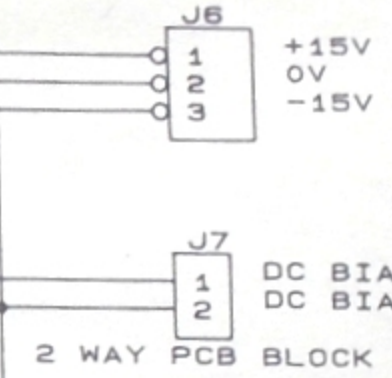
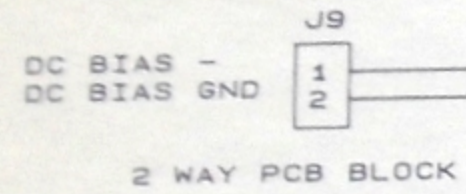
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03	10/05/96	1846	SEE MOD NOTE	DRAWN P.D.R DATE 10-06-96	CHECKED DATE	APPROVED DATE	© COPYRIGHT 1993 PLASMA TECHNOLOGY		REV
02	4/02/94	-	ADD J11 WATER INTERLOCK				Size Drg. SE80D16073		04
04	10/06/96	2516	SEE MOD NOTE				Date: June 4, 1996 Sheet 1 of 2		04
ISS	DATE	ECO	MODIFICATION						

* NOTE ESZ8161 INCLUDES SWITCH AND ENCLOSURE.

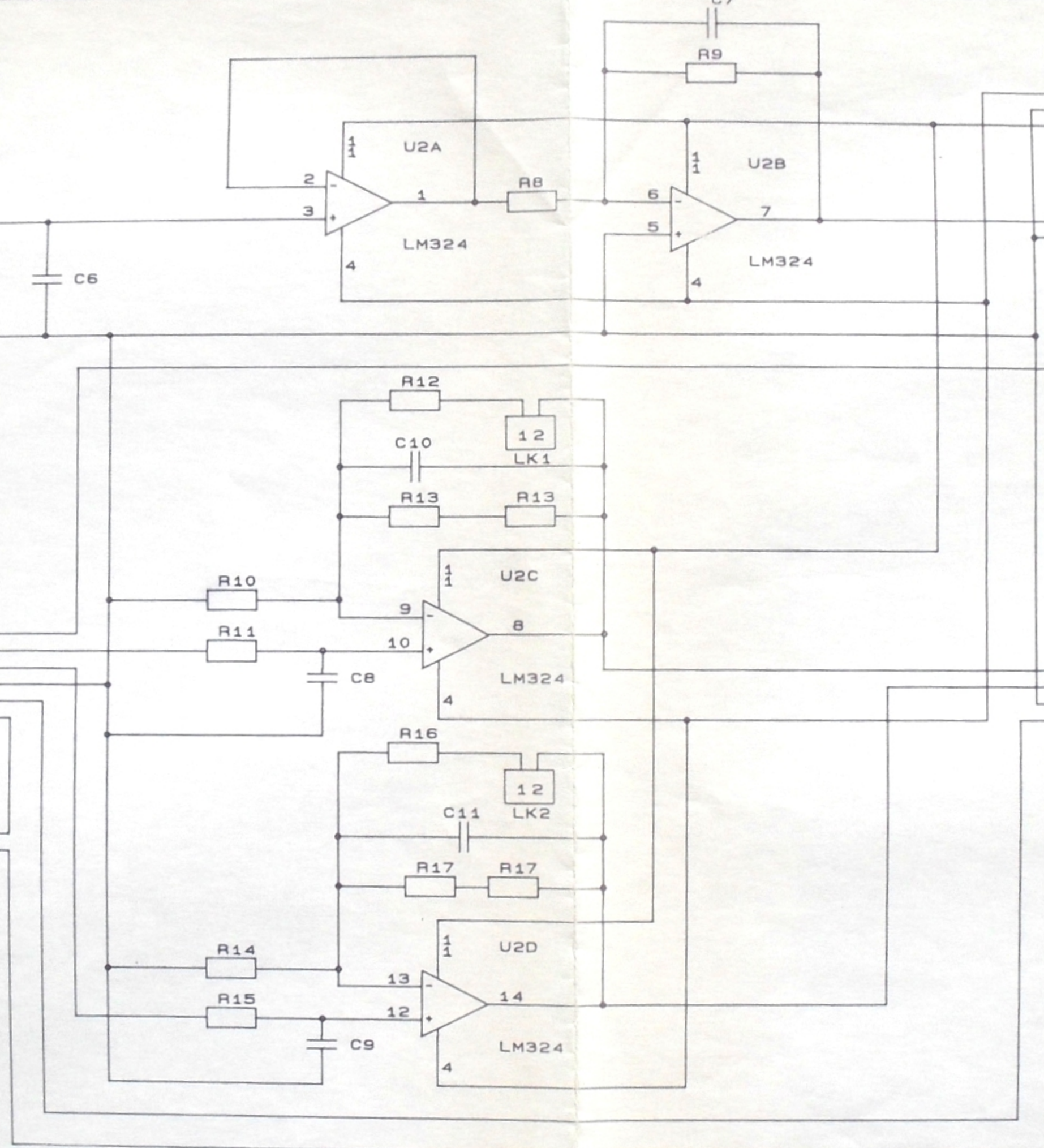


BOM NUMBER MA8Z15453

				THIS DRAWING BELONGS TO OXFORD PLASMA TECHNOLOGY LIMITED AND IS ISSUED ON CONDITION THAT IT IS NOT COPIED, REPRINTED OR DISCLOSED EITHER IN WHOLE OR IN PART TO A THIRD PARTY WITHOUT THE CONSENT IN WRITING OF OXFORD PLASMA TECHNOLOGY LIMITED.					OXFORD PLASMA TECHNOLOGY LIMITED North End Yatton Bristol BS19 4AP England	
				FIRST ISSUE CURRENT ISSUE					Title REMOTE EMO BOX	
ISSUE	DATE	ECO	MODIFICATION	DRAWN CHECKED APPROVED <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i> DATE DATE DATE			Size	Org.	RE	
01				24-2-93 11/1/93			B	SE81D15452	02	
							Date:	June 18, 1992	Sheet 1 of 1	



NOTE
300mv = 10V



ENI Gen. 300 + 500 W

Title ENI GENERATOR AMP BOARD 300W & 500W			
10/05/96	1846	SEE MODE NOTE	
4/02/94	-	ADD J11 WATER INTERLOCK	
04	10/06/96	2516	SEE MOD NOTE
ISS	DATE	ECO	MODIFICATION

PATH: D:\CAD\80PLC
FILENAME: 16073.SCH

DRAWN P.D.R
DATE 3-11-93

CHECKED	APPROVED
DATE	DATE

PLASMA TECHNOLOGY

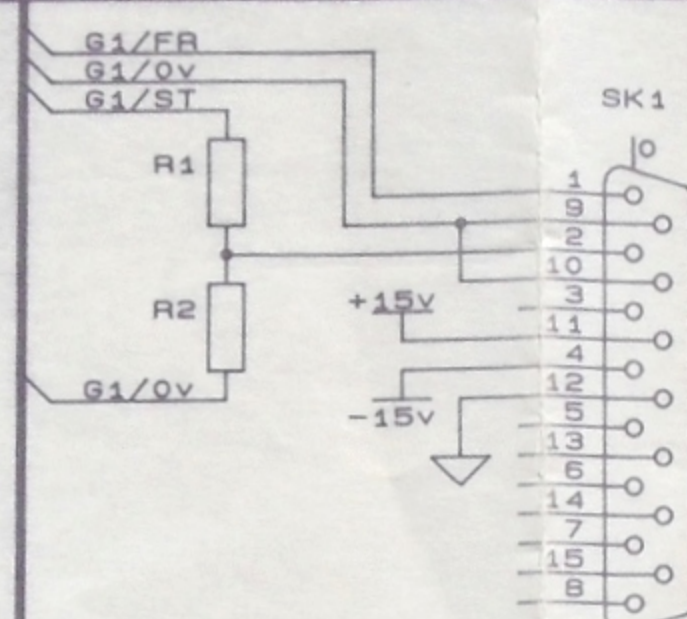
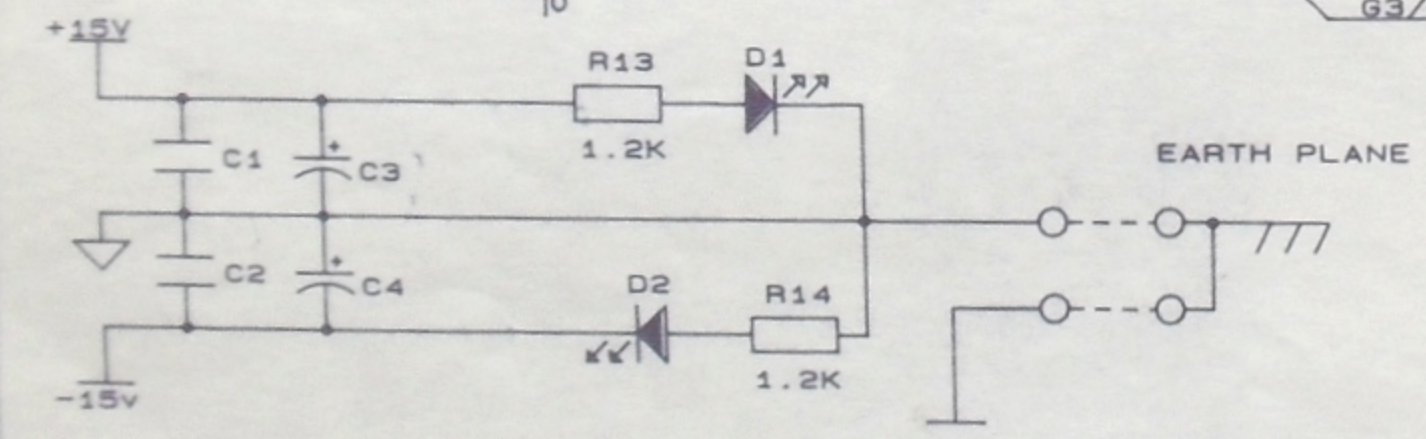
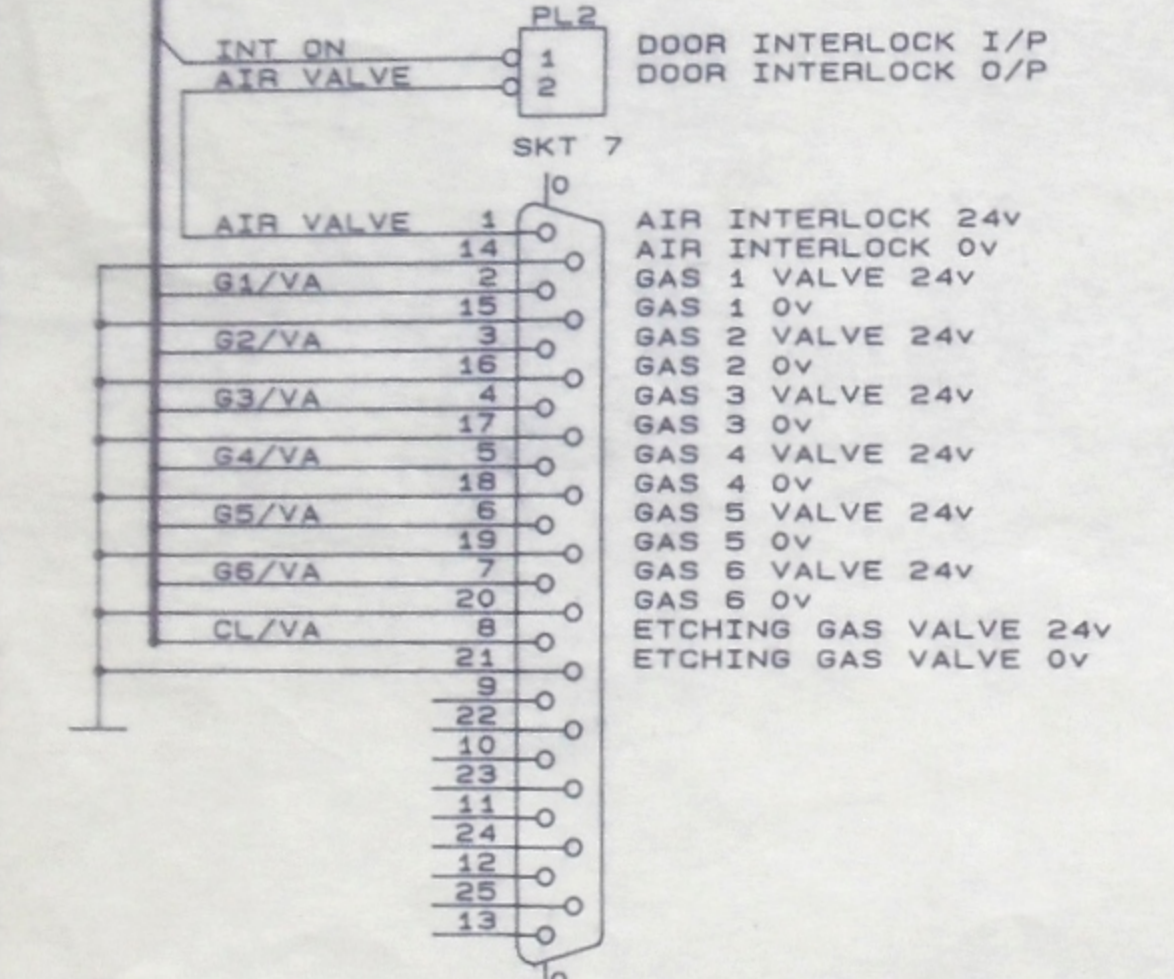
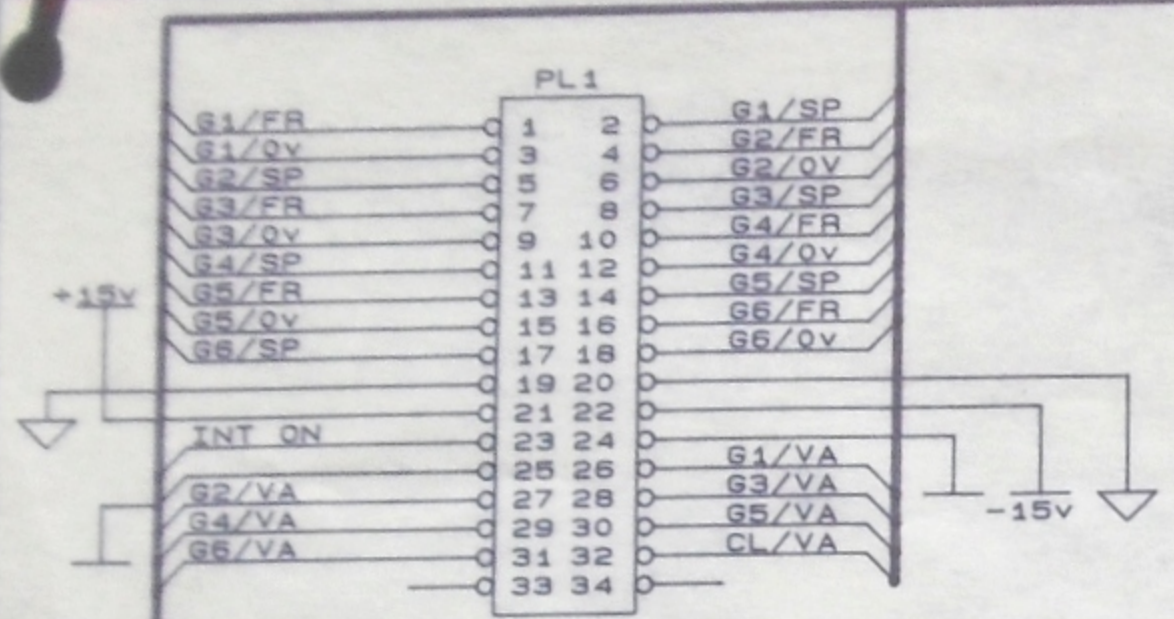
OXFORD

NORTH END, YATTON, BRISTOL BS19 4AP ENGLAND

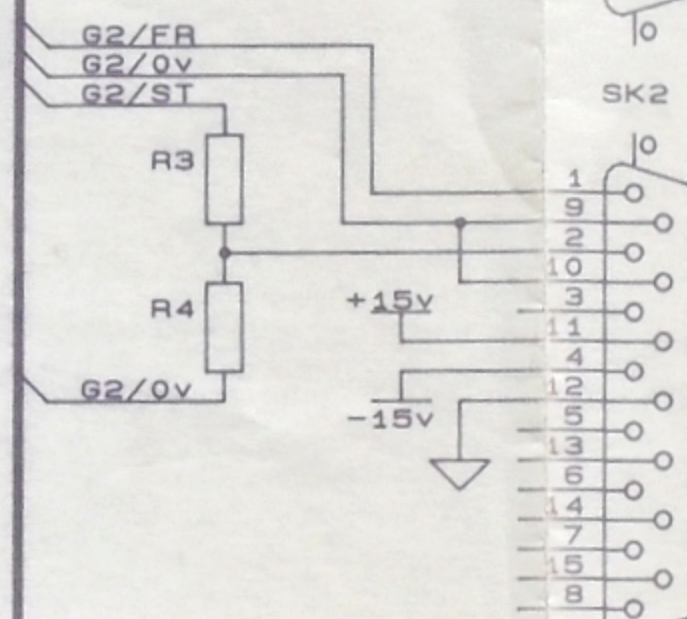
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Size B Dwg. SE80D16073 REV 04

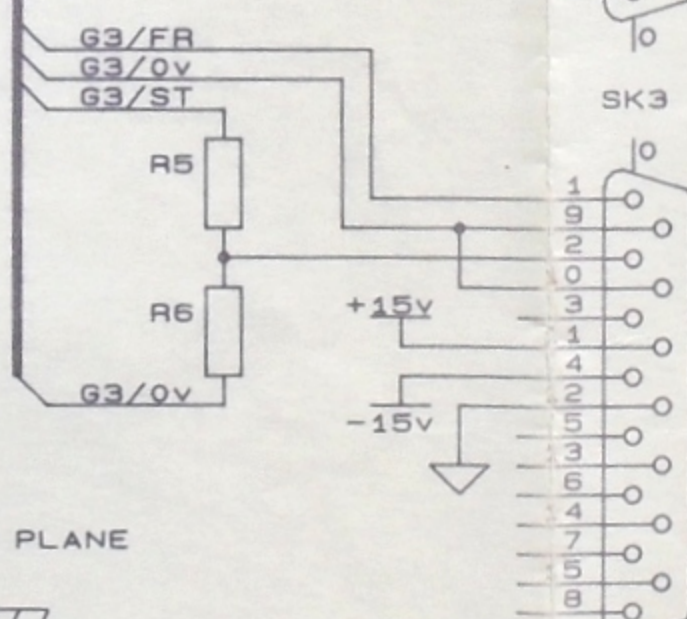
Date: June 4, 1996 Sheet 2 of 2



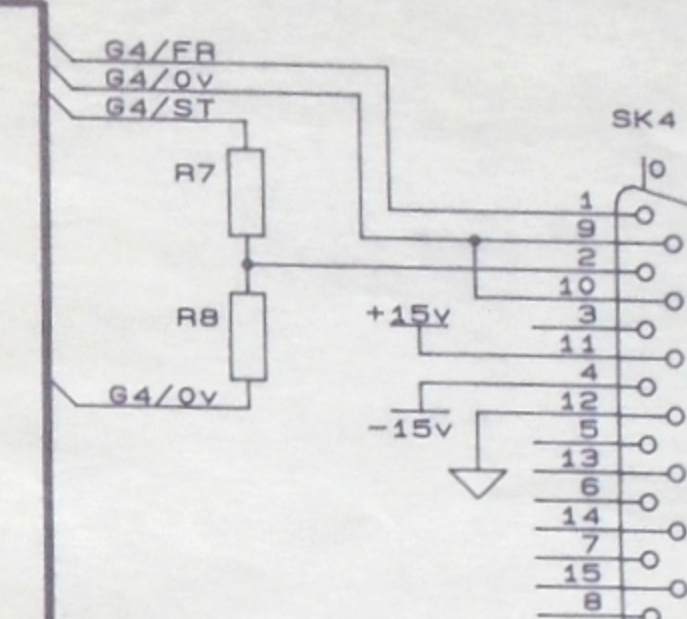
FLOW RATE +/-1
FLOW RATE -/1
SETPOINT +/-1
SETPOINT -/1



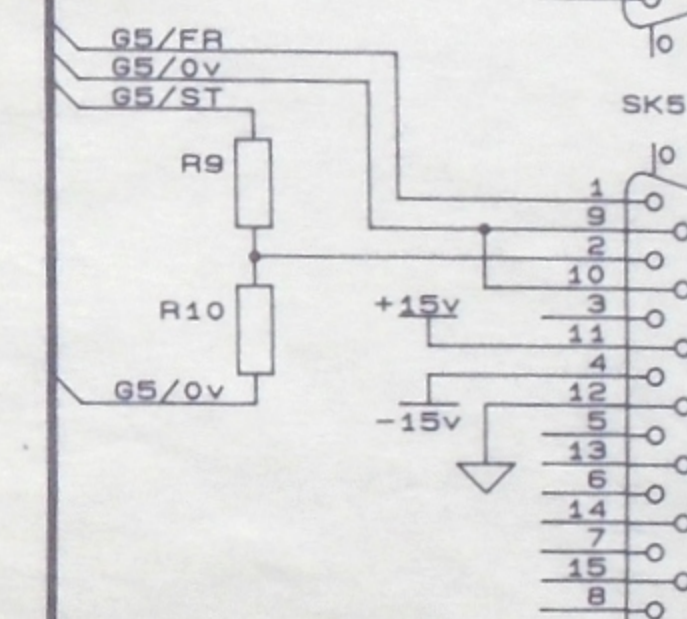
FLOW RATE +/-2
FLOW RATE -/2
SETPOINT +/-2
SETPOINT -/2



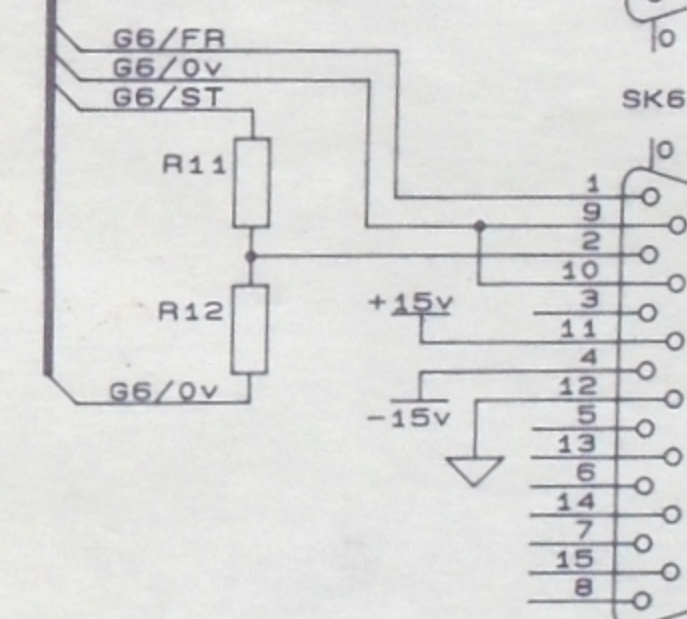
FLOW RATE +/-3
FLOW RATE -/3
SETPOINT +/-3
SETPOINT -/3



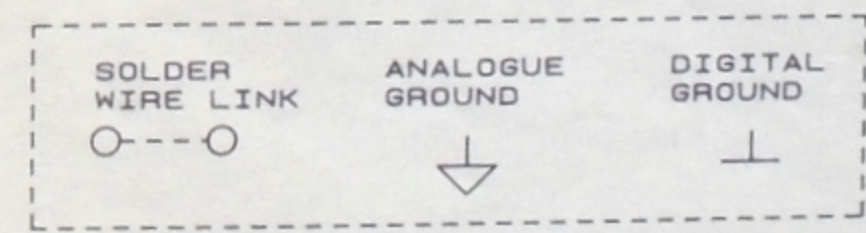
FLOW RATE +/-4
FLOW RATE -/4
SETPOINT +/-4
SETPOINT -/4



FLOW RATE +/-5
FLOW RATE -/5
SETPOINT +/-5
SETPOINT -/5



FLOW RATE +/-6
FLOW RATE -/6
SETPOINT +/-6
SETPOINT -/6



Gas Pod B

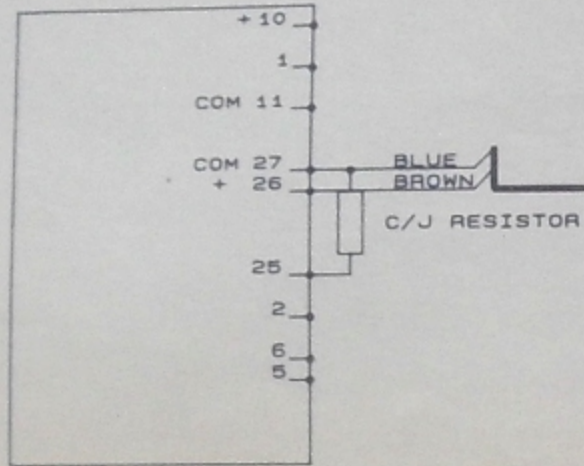
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O1	29/07/93	-	FIRST ISSUE	P.D.R	<i>thus Terry</i>	DATE
ISS	DATE	ECO	MODIFICATION	DATE	26/4/94	DATE
					Date: September 19, 1993 Sheet 1 of 1	

OXFORD

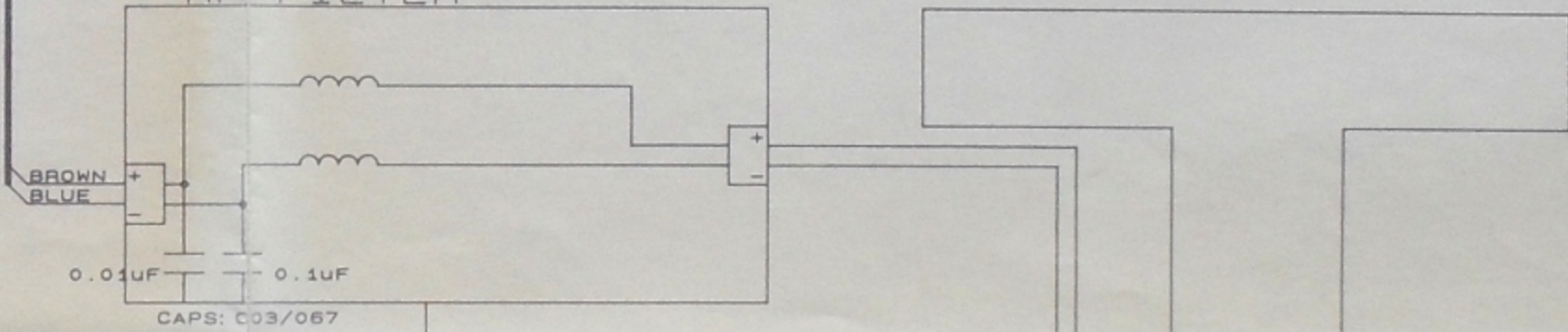
Size Drg. **SE81D15942** REV 02

SEE SE81B15597
SHEET 1 OF 4
REV.04
FOR LOOM WIRING

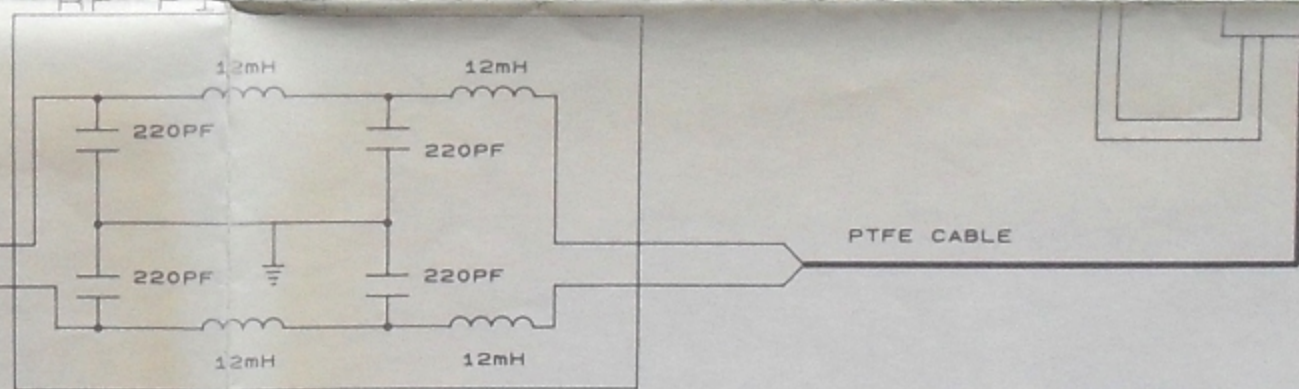
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CONTROLLER



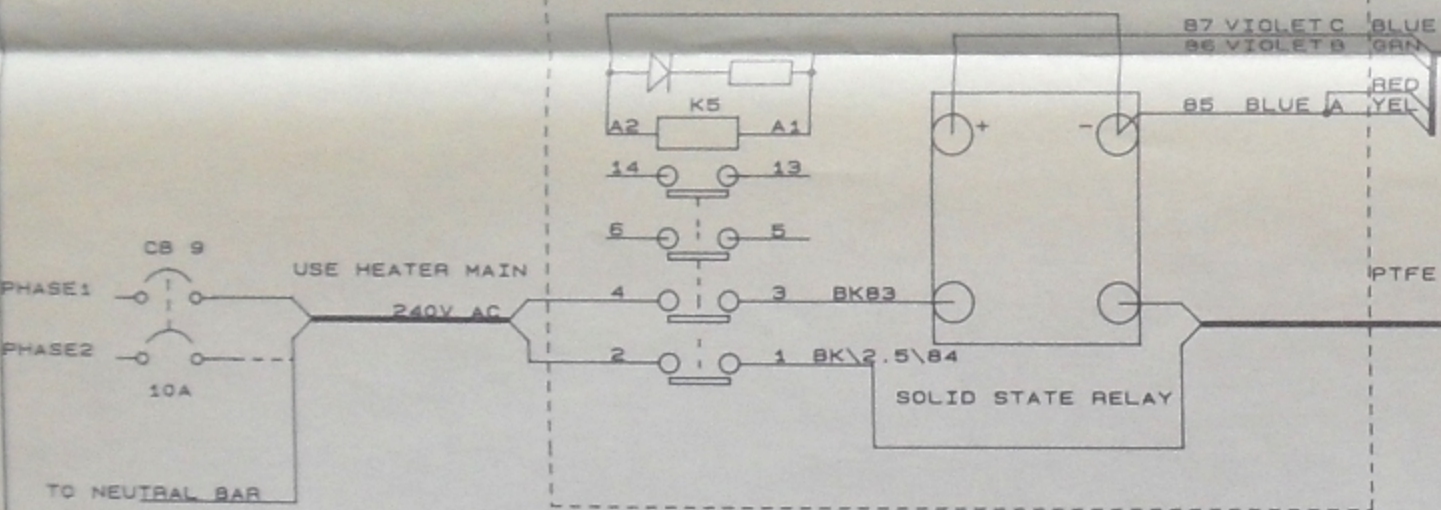
SEE MA00B18030
RF FILTER



SEE MA00B18033
RF FILTER



INSIDE POWER BOX



RF_IN

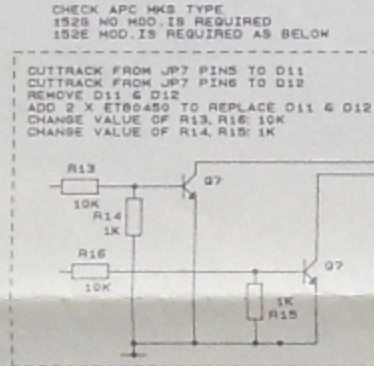
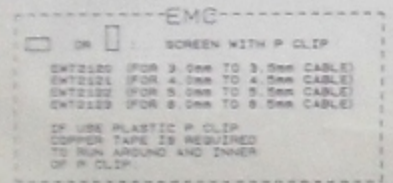
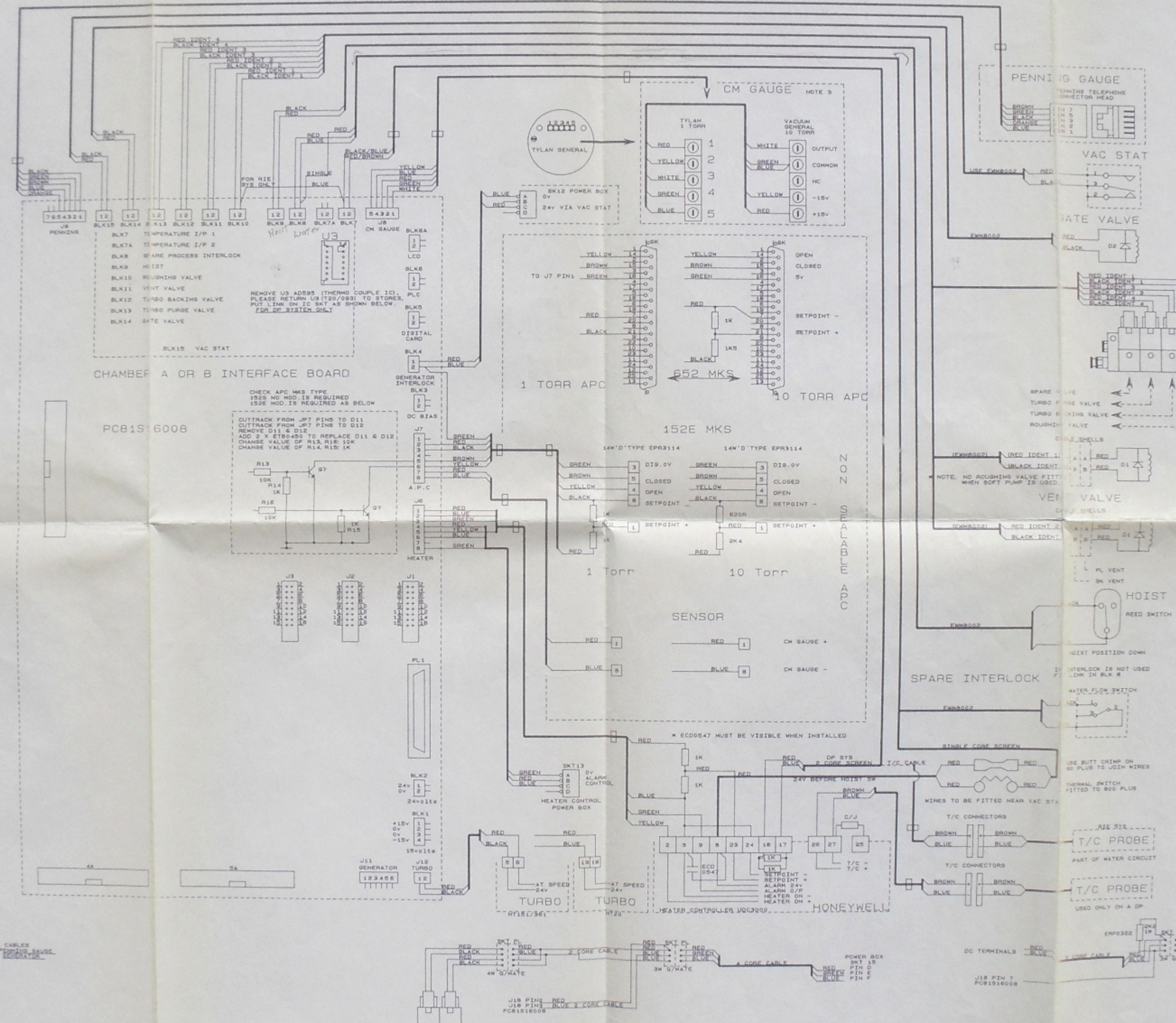
USE 2 POLE BREAKER
FOR 208V SYS (NO NEUTRAL)

*Heated
Table*

Heated Table

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	01	24-08-94	---	FIRST ISSUE	DRAWN HUU DATE 22-08-94	CHECKED DATE	APPROVED DATE	Size Dwg. C	REV 01
	ISS	DATE	ECO	MODIFICATION				SE81C17789	
									Date: September 4, 1994

- CHAMBER A INTERFACES**
- JK 8 CORE SCREEN LENGTH MTS MM
 - JK 9 CORE SCREEN LENGTH MTS MM
 - JK 10 CORE SCREEN LENGTH 2 MTS 840MM
 - JK 11 THIN SCREEN LENGTH 2 MTS 750MM
 - JK 12 CORE SCREEN LENGTH 2 MTS 100MM
 - JK 13 TELEPHONE CABLE LENGTH 1 MTS 220MM
 - JK 14 THIN SCREEN LENGTH MTS MM
 - JK 15 THIN SCREEN LENGTH MTS MM
 - JK 16 THIN SCREEN LENGTH MTS MM
 - JK 17 T/C CABLE LENGTH MTS MM
 - JK 18 SINGLE SCREEN LENGTH MTS MM
 - JK 19 WATER SWITCH LENGTH MTS MM
 - JK 20 HEAT SWITCH LENGTH MTS MM
 - JK 21 PART OF VALVE LENGTH MTS MM
 - JK 22 THIN SCREEN LENGTH MTS MM
 - JK 23 THIN SCREEN LENGTH 1 MTS 800MM
 - JK 24 THIN SCREEN LENGTH 1 MTS 800MM
 - JK 25 THIN SCREEN LENGTH 1 MTS 800MM
- INTERNAL WIRING TO HEATER CONTROL**
- SINGLE SCREEN LENGTH MTS MM
- INTERNAL WIRING TO HEATER CONTROL**
- T/C CABLE LENGTH MTS MM



NOTE 1: ONLY ONE GENERATOR TO BE FITTED

NOTE 2: EXACT EQUIPMENT FITTED WILL DEPEND ON MACHINE SPECIFICATIONS

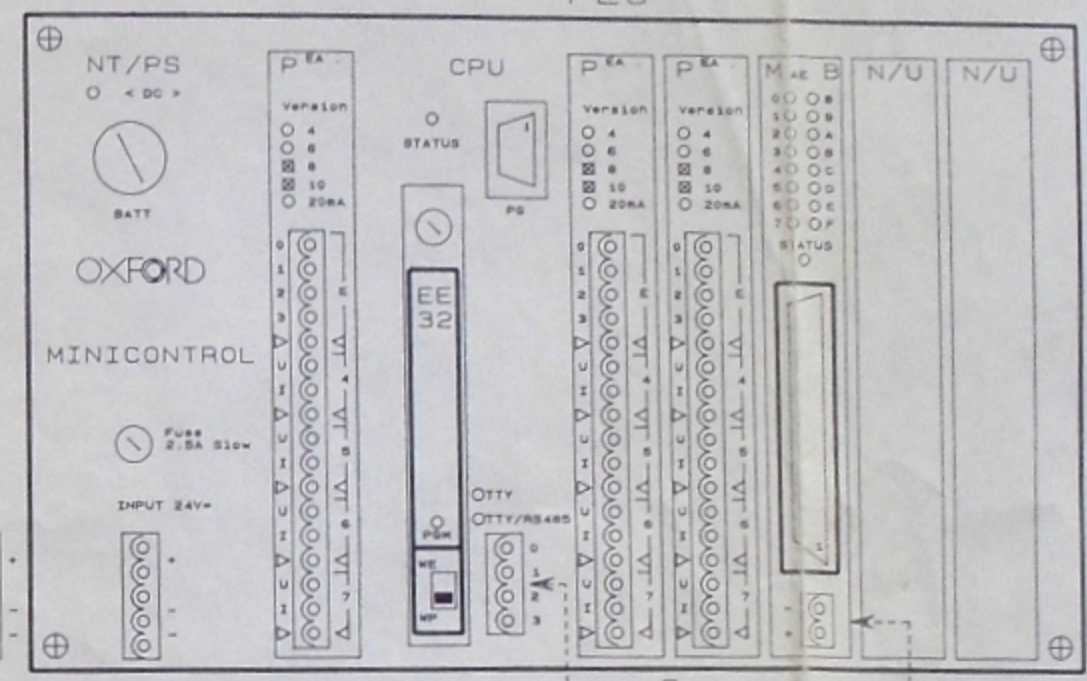
NOTE 3: ONLY ONE CH GAUGE TO BE FITTED

NOTE 4: IDENTIFICATION SHOULD BE FITTED TO ALL CABLES
EXAMPLE: PCB BOARD, J9, EQUIPMENT END PENNING GAUGE, PCB BOARD, J11, EQUIPMENT END GENERATOR

- CHAMBER A INTERFACE PCB**
- BLK 1 4 CORE SCREEN ----- (LENGTH 20 MTS 300mm) TO COMMS LINK
 - BLK 2 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO COMMS LINK
 - BLK 3 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO COMMS LINK
 - BLK 4 TWIN MAINS CABLE (LENGTH 10 MTS 300mm) TO PLC
 - BLK 5 TWIN MAINS CABLE (LENGTH 10 MTS 300mm) TO PLC
 - BLK 6 TWIN MAINS CABLE (LENGTH 10 MTS 300mm) TO PLC
 - BLK 7 TWIN MAINS CABLE (LENGTH 10 MTS 300mm) TO PLC
 - BLK 8 CORE SCREEN ----- (LENGTH 1 MTS 00mm) TO COMMS LINK
- COMMS LINK PCB**
- JP1 8 CORE SCREEN ----- (LENGTH 1 MTS 300mm) TO PC CONTROL
 - JP2 4 CORE SCREEN ----- (LENGTH 2 MTS 570mm) TO PLC
 - JP3 4 CORE SCREEN ----- (LENGTH 2 MTS 00mm) TO LCD DISPLAY
 - JP4 8 CORE SCREEN ----- (LENGTH 2 MTS 00mm) TO ENI OR ADVANCED ENERGY GENERATORS
 - JP5 8 CORE SCREEN ----- (LENGTH 2 MTS 00mm) TO ENI GENERATOR
 - JP6 COAX CABLE ----- (LENGTH 1 MTS 00mm) TO ADVANCED ENERGY GENERATOR
 - JP7 COAX CABLE ----- (LENGTH 1 MTS 00mm) TO ENI GENERATOR
 - JP8 8 CORE SCREEN ----- (LENGTH 2 MTS 00mm) TO ENI GENERATOR
 - JP9 8 CORE SCREEN ----- (LENGTH 2 MTS 00mm) TO ADVANCED ENERGY GENERATOR
- REAR SERVICES PANEL**
- R.S.P 8 CORE SCREEN ----- (LENGTH 4 MTS 00mm) TO EXTERNAL COMPUTER

- POWER BOX**
- PL15 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO PUMP PANEL
 - PL16 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO PUMP PANEL
 - PL17 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO EMD SWITCH
 - PL18 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO CHAMBER A INTERFACE
 - PL19 TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO FANS
- 24 VOLTS CHAIN**
- FANS TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO AUTOMATCH
- EXTERNAL 24V POWER SUPPLY**
- FANS TWIN SCREEN ----- (LENGTH 1 MTS 00mm) TO AUTOMATCH
- RF CABLE**
- RTE COAX CABLE ----- (LENGTH 1 MTS 00mm) TO AUTOMATCH
 - OP COAX CABLE ----- (LENGTH 1 MTS 00mm) TO AUTOMATCH

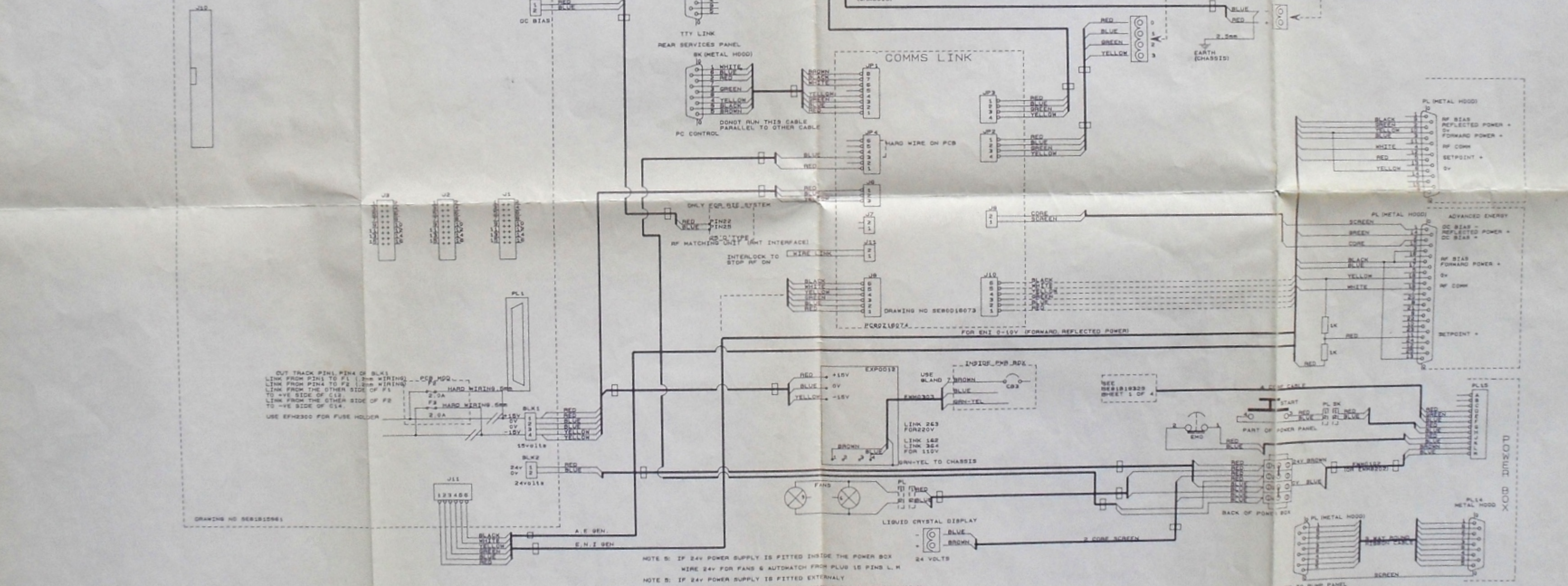
PLC



CHAMBER A INTERFACE

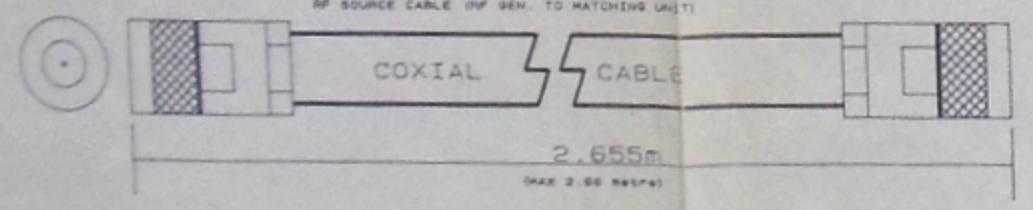
PC81S1600B

- EMC**
- SCREEN WITH # CLIP
 - ENTRANCE FROM 3mm TO 3mm CABLE
 - ENTRANCE FROM 4mm TO 4mm CABLE
 - ENTRANCE FROM 6mm TO 6mm CABLE
 - ENTRANCE FROM 8mm TO 8mm CABLE
- USE PLASTIC P CLIP
SOLDER TAPE IS REQUIRED
TO RUN AROUND CLIP



NOTE S: IF 24V POWER SUPPLY IS FITTED INSIDE THE POWER BOX
WIRE 24V FOR FANS & AUTOMATCH FROM PLUS 16 PINS L.H

NOTE B: IF 24V POWER SUPPLY IS FITTED EXTERNALLY
WIRE 24V FOR FANS & AUTOMATCH FROM EXTERNAL POWER SUPPLY



Internal wiring PC Control

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TASK: 80680 PLUS INTERNAL WIRING PLC CONTROL VERSION

DRAWN: J.S. DATE: 10-28-88
CHECKED: J.S. DATE: 7/1/86
APPROVED: DATE:

FOR PRESSURE BY A FURTHER VENT WATNE
FIRST ISSUE SHOWN BY SERIALSHEET
DATE

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FILENAME: B018029.SCH

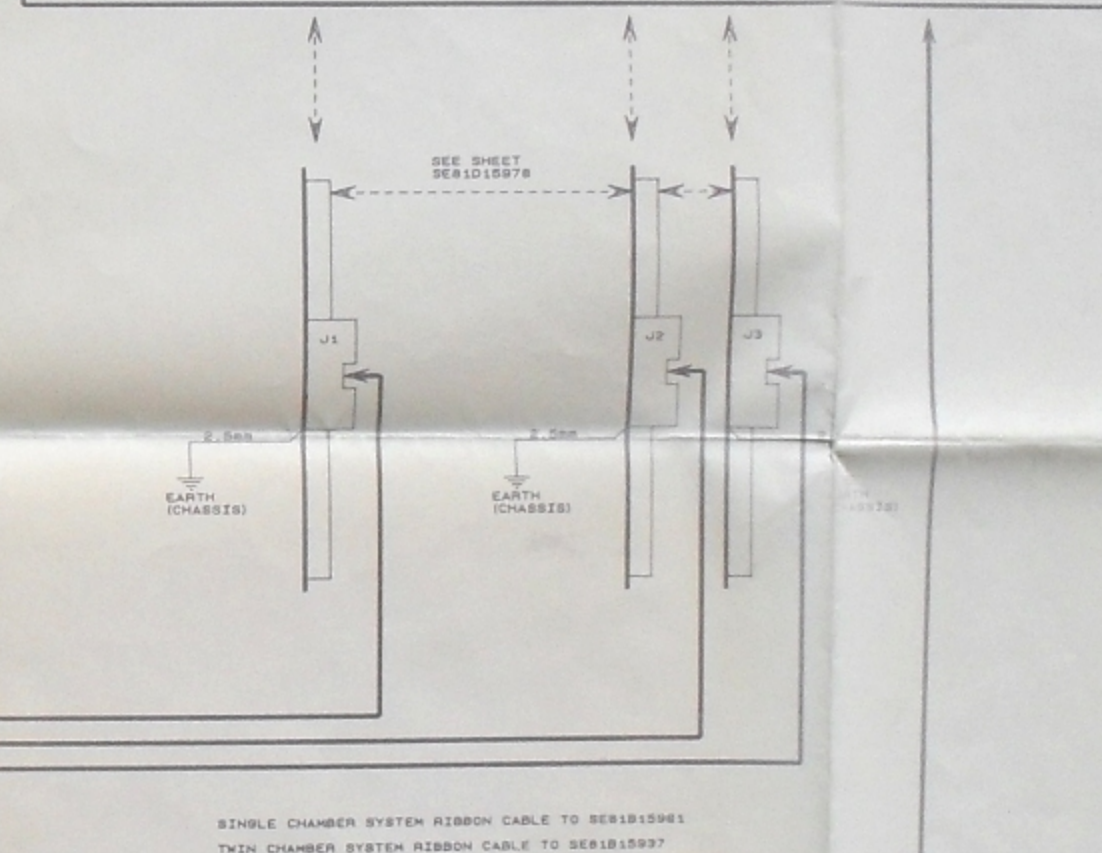
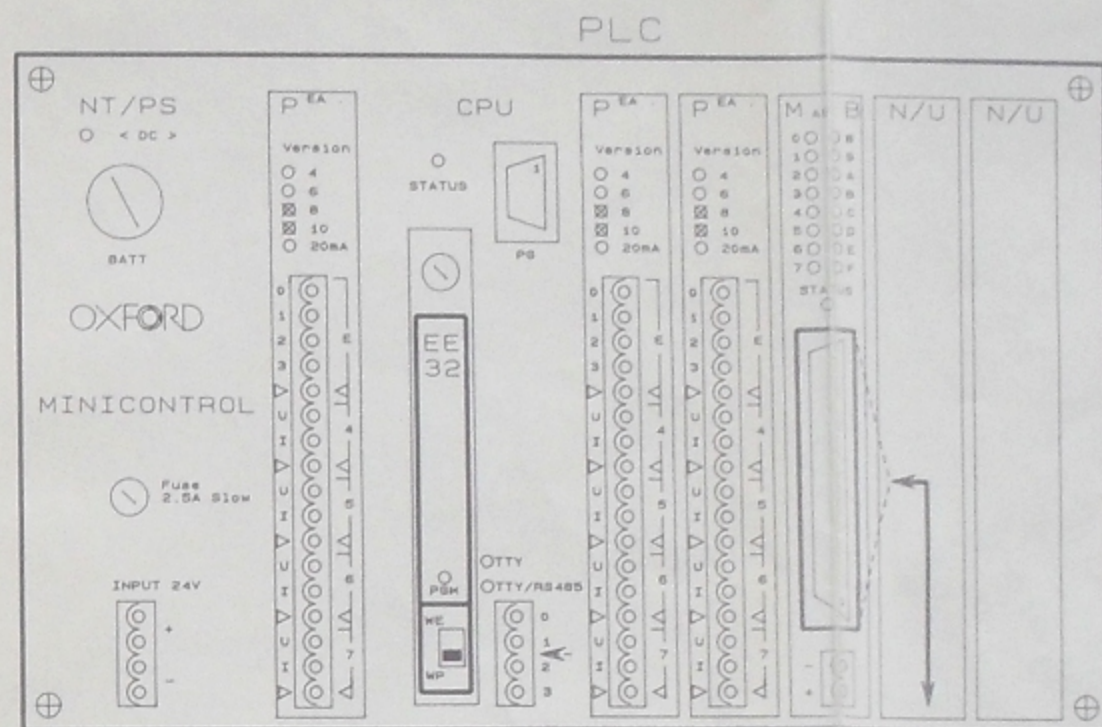
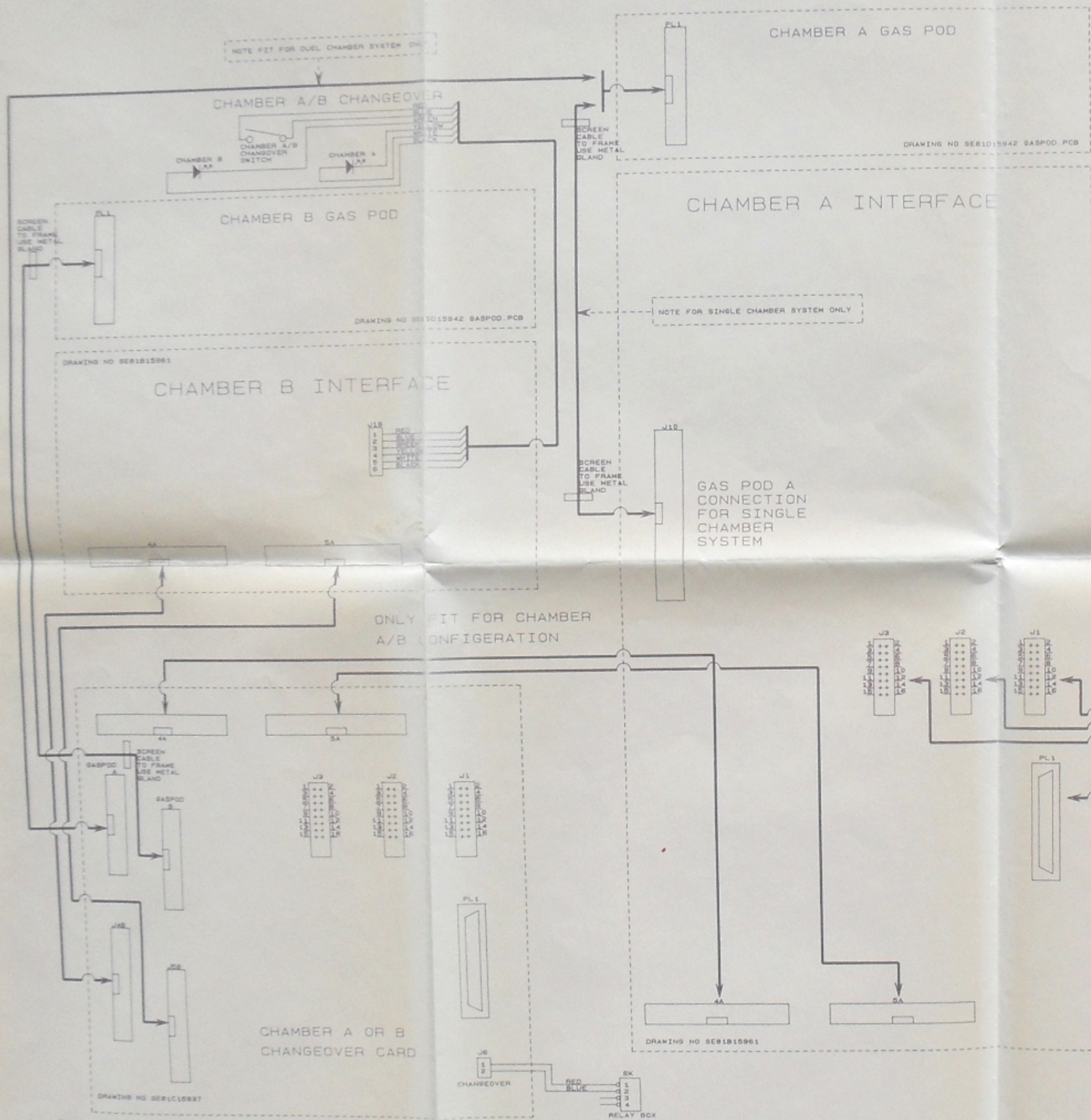
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NORTH END, YATTON, BRISTOL, BS16 4AP, ENGLAND

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DRAWN: J.S. DATE: 10-28-88
CHECKED: J.S. DATE: 7/1/86
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80 & 800 PLUS RIBBON CABLES



CHAMBER A INTERFACE

Component	Length	HTS	Notes
J1 16 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A INTERFACE
J2 16 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A INTERFACE
J3 16 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A INTERFACE
PL 37 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A INTERFACE
J1 16 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A OR B CHANGEDOVER CARD
J2 16 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A OR B CHANGEDOVER CARD
J3 16 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A OR B CHANGEDOVER CARD
PL 37 WAY RIBBON CABLE	-----	HTS	PLC TO CHAMBER A OR B CHANGEDOVER CARD
4A 40 WAY RIBBON CABLE	-----	HTS	CHAMBER A INTERFACE TO CHAMBER A OR B CHANGEDOVER CARD
5A 40 WAY RIBBON CABLE	-----	HTS	CHAMBER A INTERFACE TO CHAMBER A OR B CHANGEDOVER CARD
J10 34 WAY ROUND FLAT CABLE	-----	HTS 00mm	CHAMBER A GAS POD
J4B 40 WAY ROUND FLAT CABLE	-----	HTS 00mm	CHAMBER A OR B CHANGEDOVER CARD TO CHAMBER B INTERFACE
J5B 40 WAY ROUND FLAT CABLE	-----	HTS 00mm	CHAMBER A OR B CHANGEDOVER CARD TO CHAMBER B INTERFACE
GAS POD A 34 WAY ROUND FLAT CABLE	-----	HTS 00mm	CHAMBER A OR B INTERFACE CARD TO GAS POD A
GAS POD B 34 WAY ROUND FLAT CABLE	-----	HTS 00mm	CHAMBER A OR B INTERFACE CARD TO GAS POD B
J6 TWIN SCREEN	-----	HTS	CHAMBER A OR B CHANGEDOVER CARD TO RF CHANGEDOVER UNIT
16 8 CORE SCREEN	-----	HTS	CHAMBER B INTERFACE TO CHAMBER A/B CHANGEDOVER

76206
9M695918

SEE SHEET 1-NOTE 4:

EMC
 SCREEN WITH P CLIP
 USE PLASTIC P CLIP
 TAPE IS REQUIRED
 TO HOLD AROUND AND ZIGZAG
 OF P CLIP

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TITLE: 806800 PLUS INTERNAL WIRING PLC CONTROL VERSION

DR	10-07-83	2284	ADD PRESSURE SW & FAN/LINE VENT WIRING
DR	10-01-83	2285	DCP
DR	28-11-82	2285	FINISH TABLE CHARTER OCT REGISTRATION
DR	DATE	ECO	MODIFICATION

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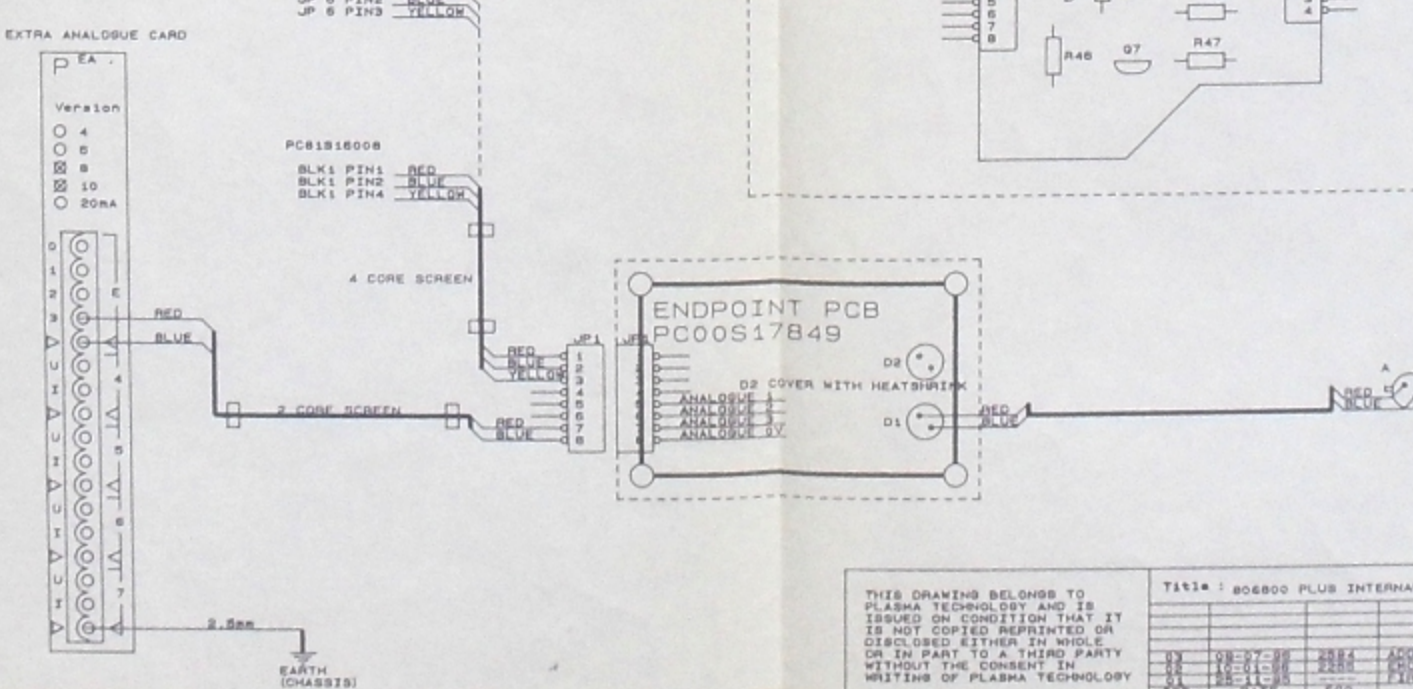
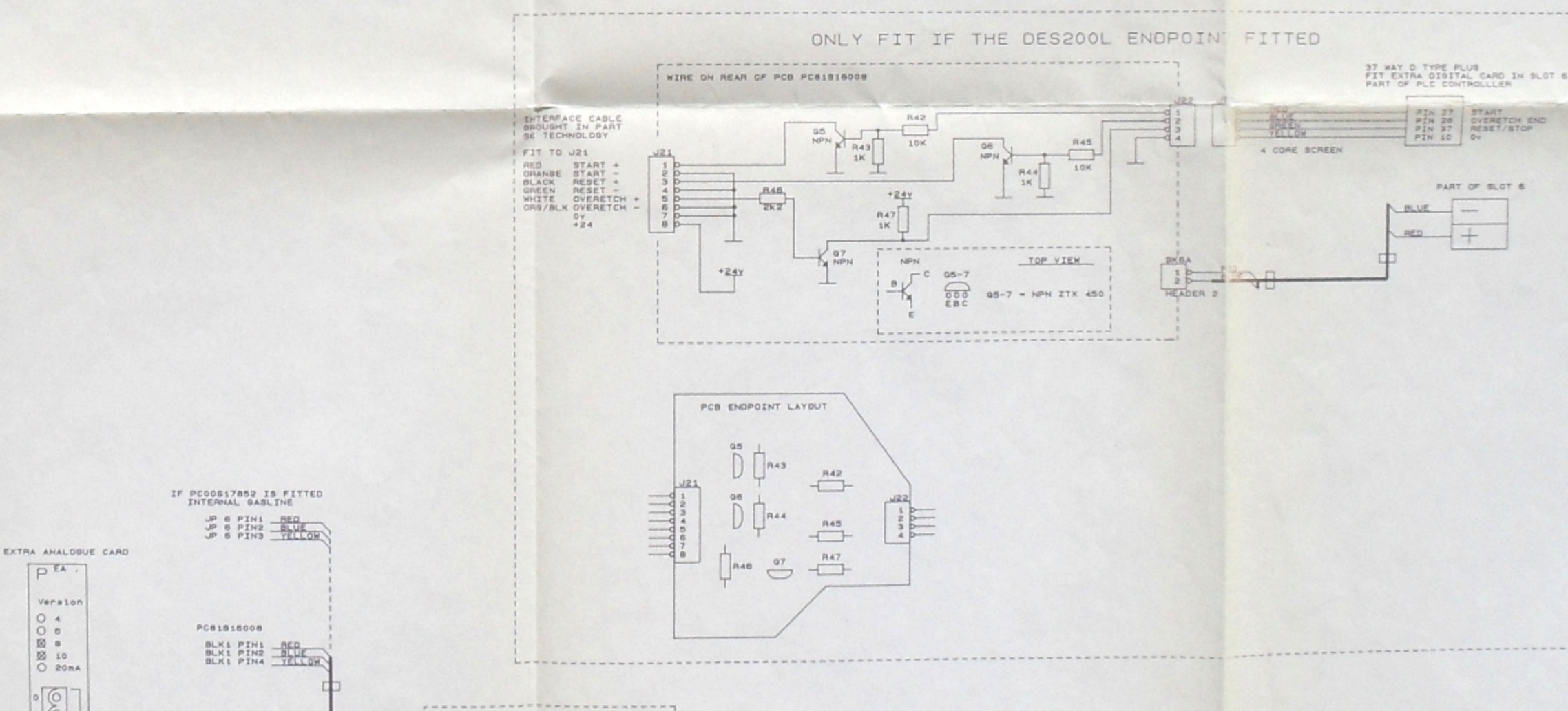
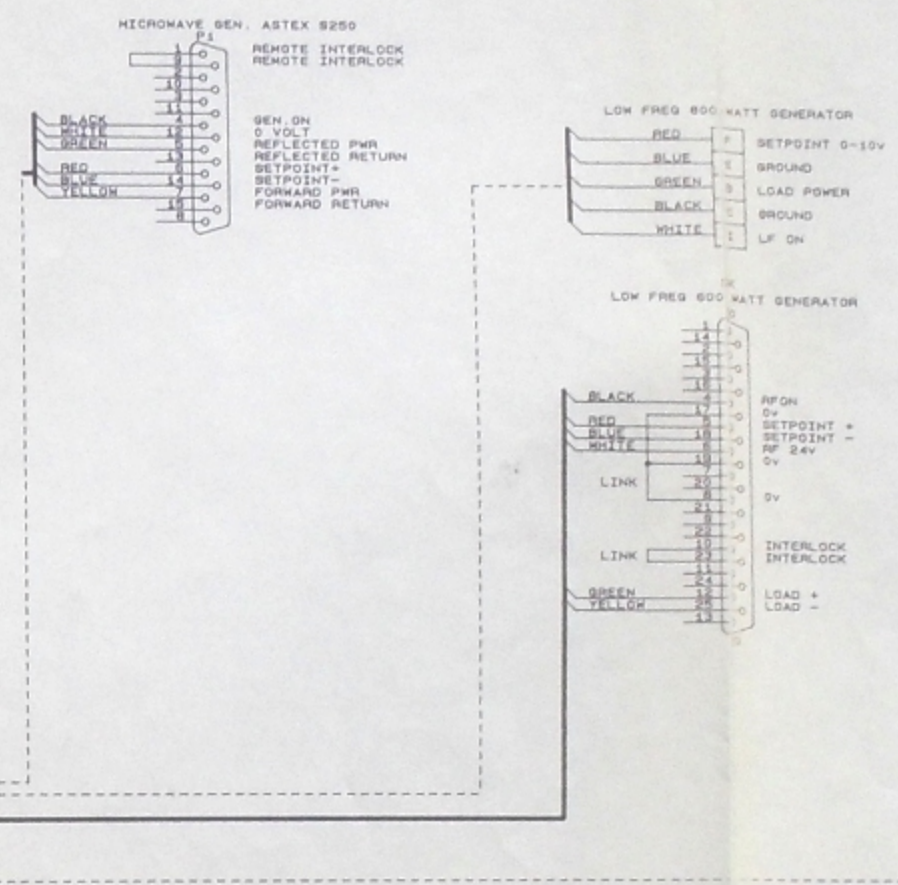
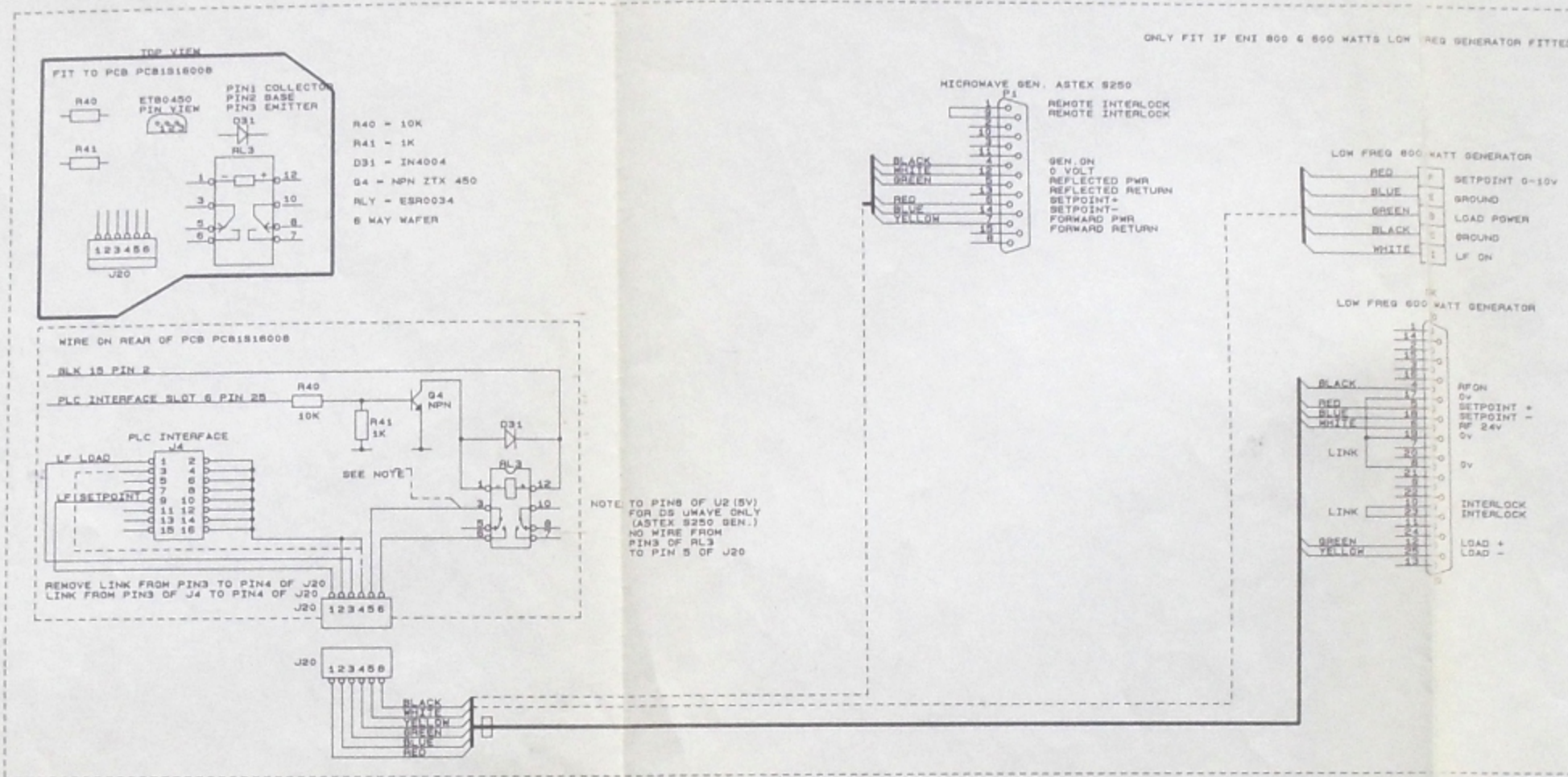
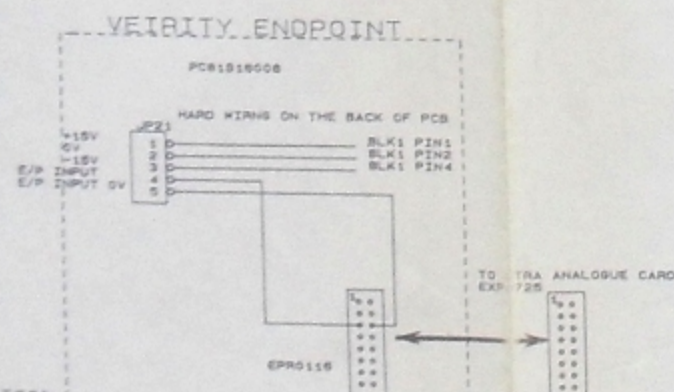
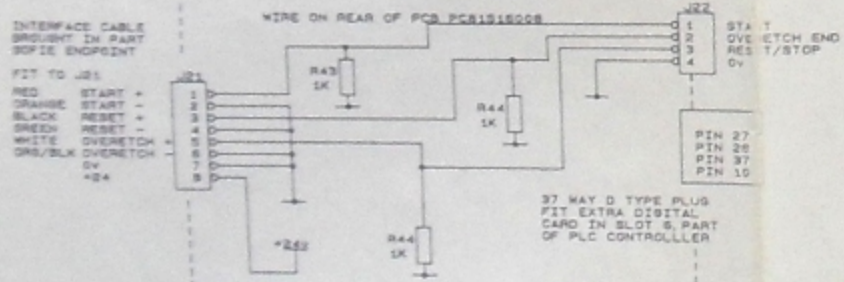
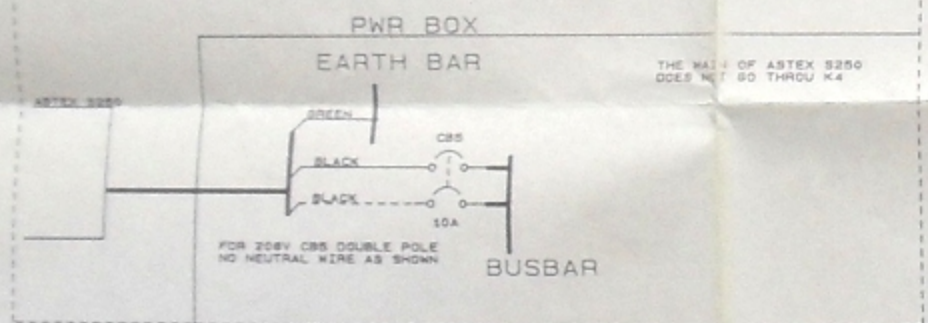
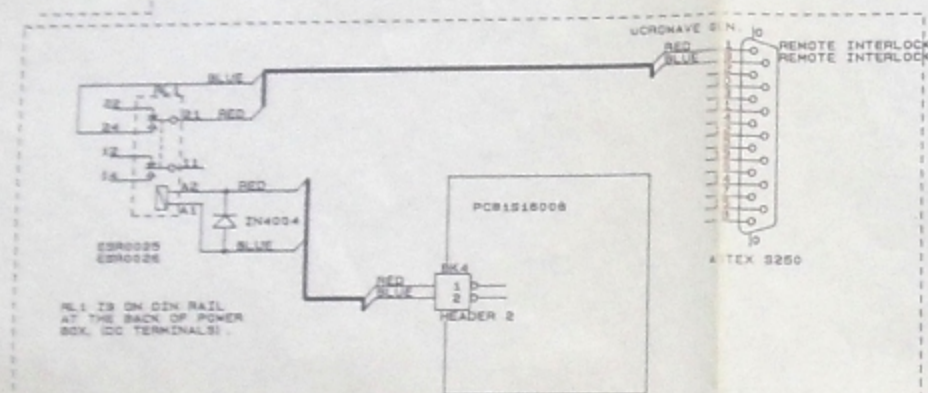
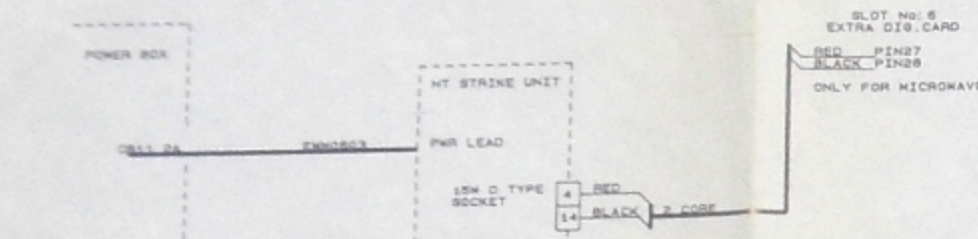
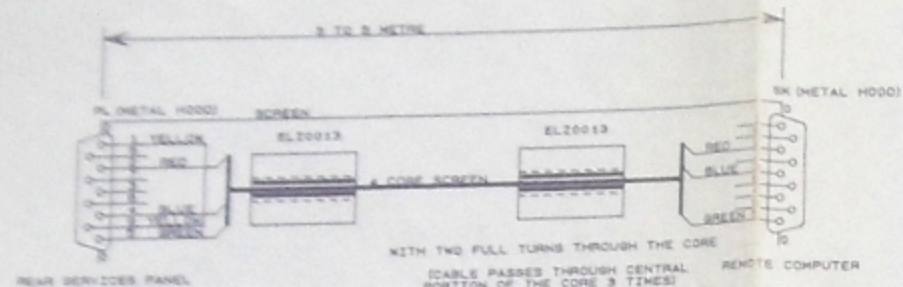
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DATE: 4-7-96
 DATE: 10-08-83

APPROVED: [Signature]
 DATE: [Blank]

REF: SE81B19329
 DATE: July 8, 1988

Internal wiring



EMC

SCREEN WITH P-CLIP
OPTICAL 0V TO 0V TO 0V TO 0V
OPTICAL 0V TO 0V TO 0V TO 0V
OPTICAL 0V TO 0V TO 0V TO 0V
OPTICAL 0V TO 0V TO 0V TO 0V

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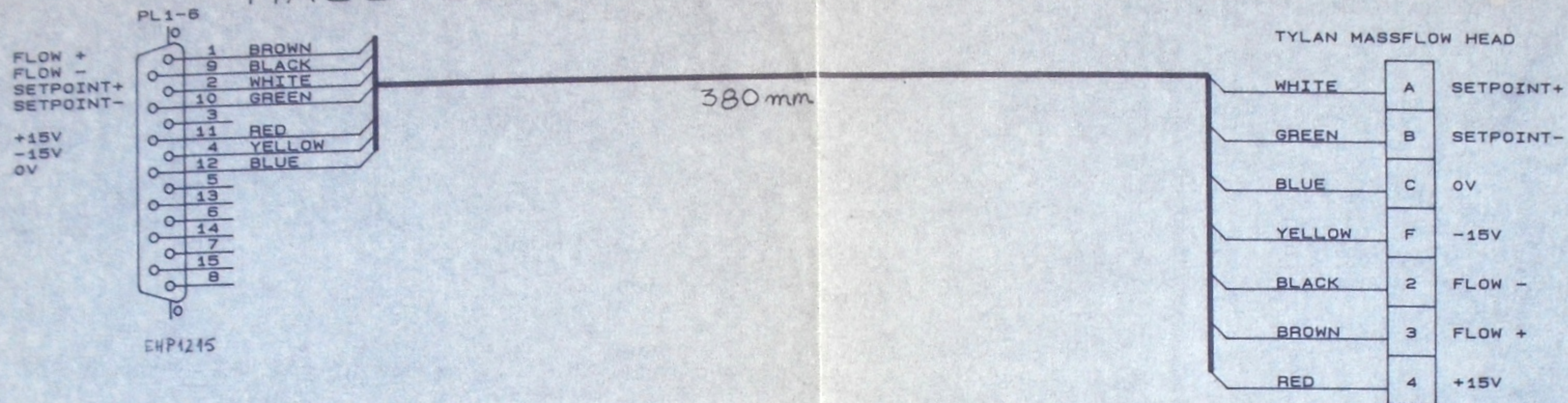
T113 : 806800 PLUS INTERNAL WIRING PLC CONTROL VERSION

NO	DATE	REV	DESCRIPTION
1	08-07-88	2884	ADD PROBLEME BY 6 FOR THE VENT WIRING
2	18-01-89	2288	FIRST ISSUE QUARTER 90 SERIALSHEET
3	08-07-89	ECO	MODIFICATION

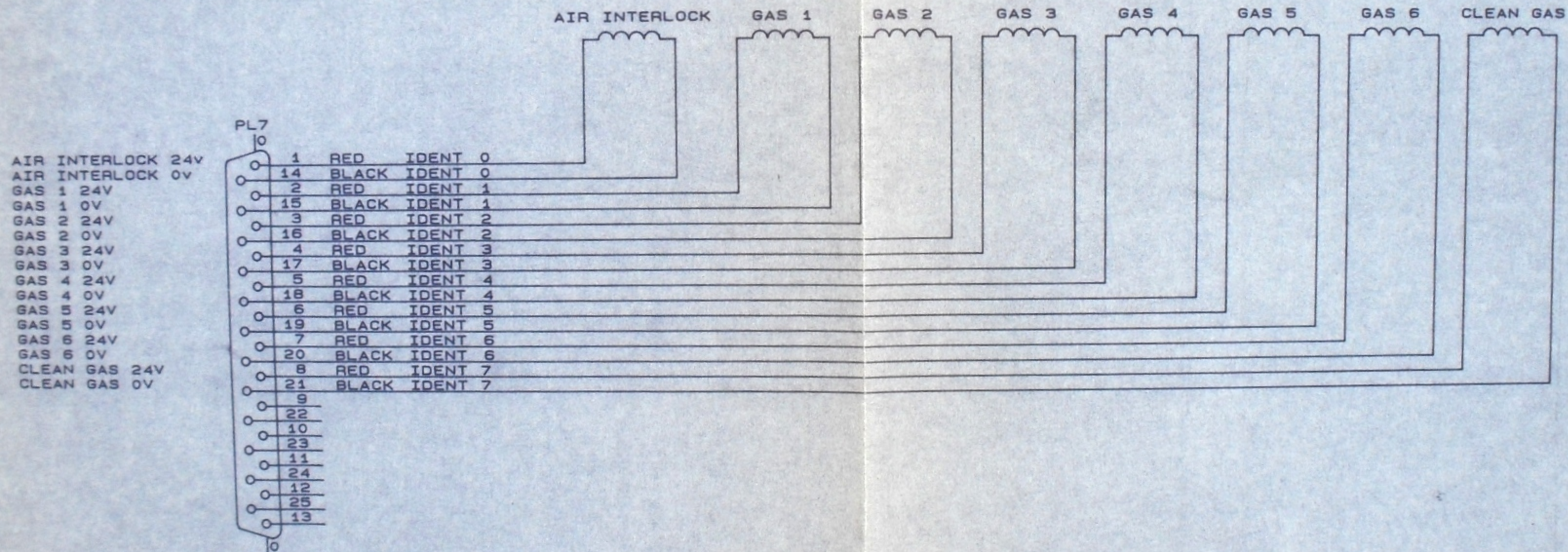
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DRAWN: 10-08-89	CHECKED: 10-07-89	APPROVED: 10-07-89
DATE: 10-08-89	DATE: 10-07-89	DATE: 10-07-89
NORTH END, YATTON, BRISTOL BS19 4AF ENGLAND		OXFORD
COPYRIGHT 1989 PLASMA TECHNOLOGY		REV: 00
FILE NO: SE81819329		REV: 00
NO. 10		REV: 00

Internal wiring

MASSFLOW WIRING TYLAN TYPE



GAS VALVE WIRING



Title PLC GAS POD WIRING

PATH: D:\CAD\80PLC\
FILENAME: 16113.SCH

PLASMA TECHNOLOGY
NORTH END, YATTON, BRISTOL BS19 4AP ENGLAND

OXFORD

ISS	DATE	ECO	MODIFICATION
01	17/9/93	-	

DRAWN
P.D.R
DATE
17/9/93

CHECKED
Alan Tully
DATE
10/5/95

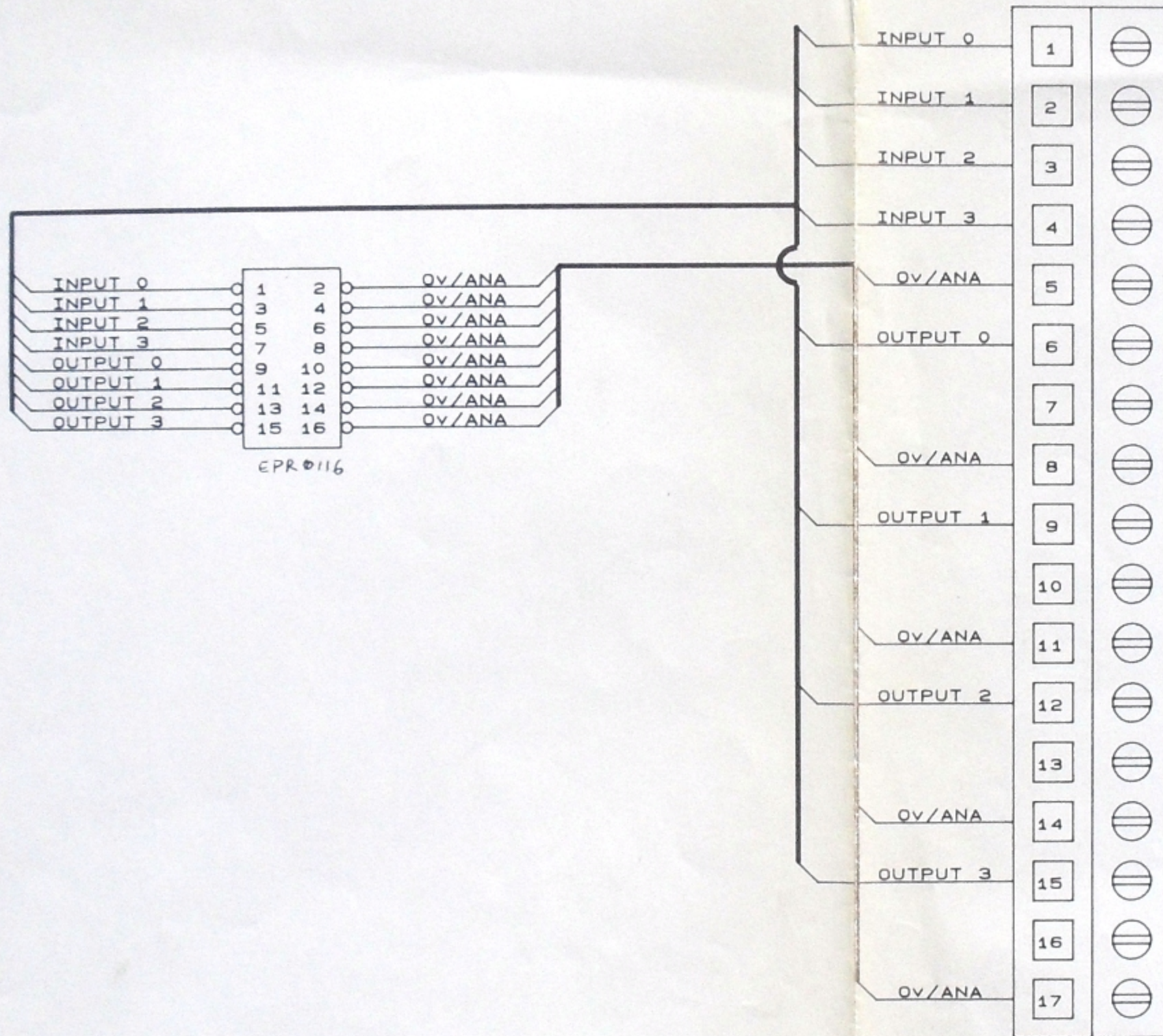
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DATE

PLASMA TECHNOLOGY
NORTH END, YATTON, BRISTOL BS19 4AP ENGLAND

Size Drg. **SE81D16113**

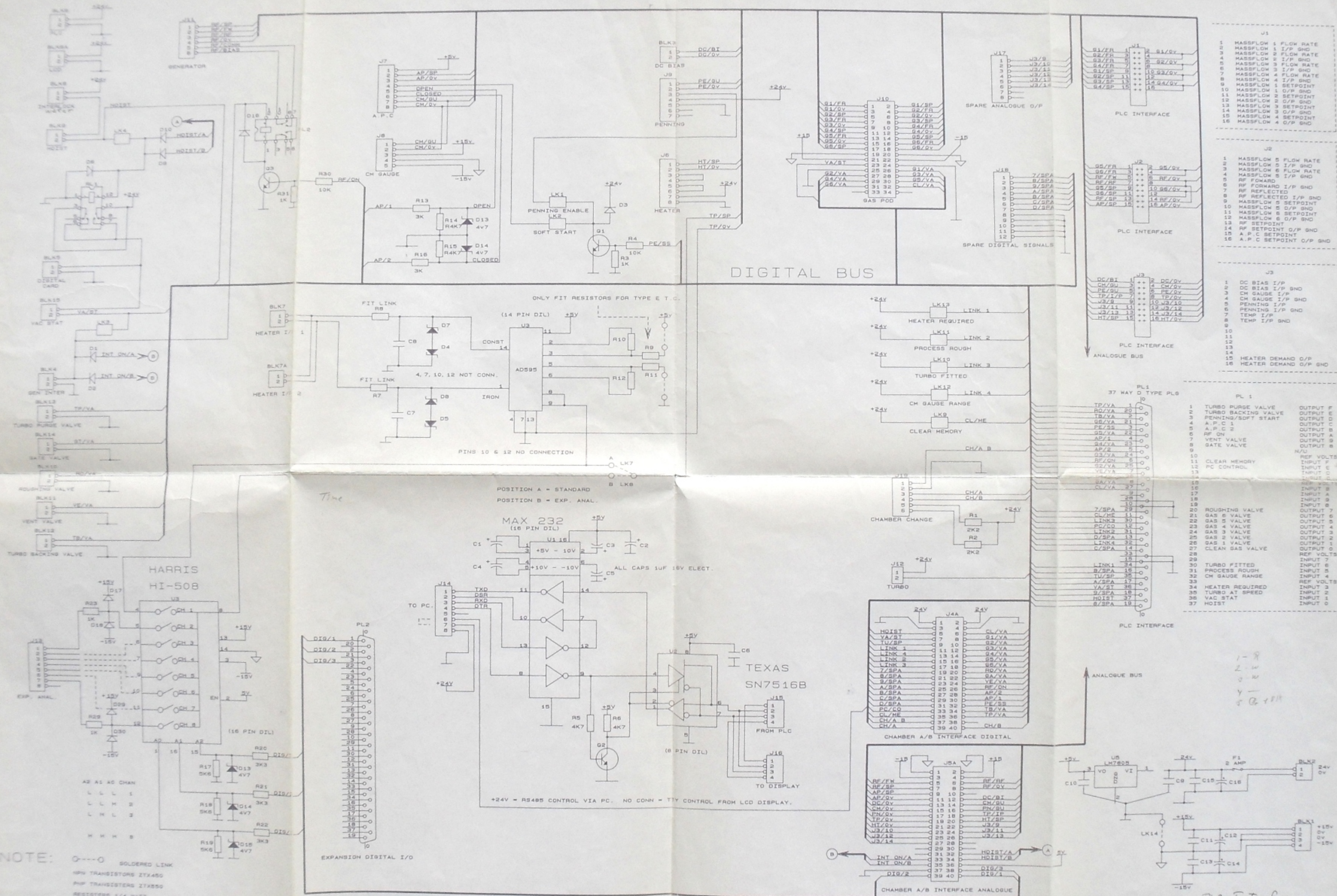
Date: September 20, 1993 Sheet 1 of 1

REV
01



PCB For Analogue

Title PCB FOR ANALOGUE BOARDS (PLC)				PATH: D:\CAD\BNR FILENAME: 15978.SCH		PLASMA TECHNOLOGY NORTH END, YATTON, BRISTOL BS19 4AP ENGLAND		OXFORD	
				DRAWN		CHECKED		APPROVED	
				PDR		DATE		DATE	
				DATE		DATE		DATE	
MODIFICATION				2/08/93					
ISS	DATE	ECO							
Size		Document Number		REV					
B		SE80D15978		01					
Date:		August 3, 1993		Sheet		1 of 1			



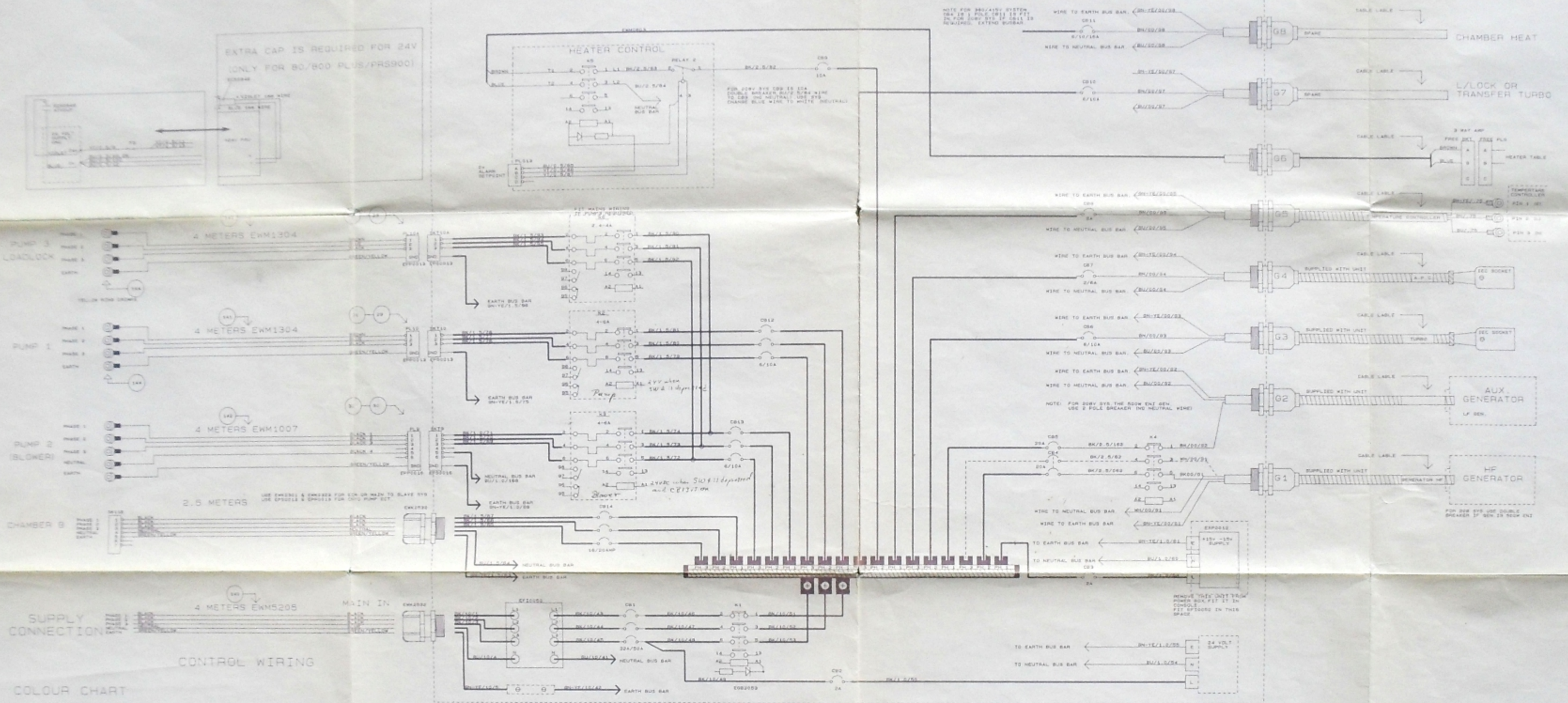
NOTE: ○---○ SOLDERED LINK
 NPV TRANSISTORS 2TX450
 NPV TRANSISTORS 2TX550
 RESISTORS 1/4 WATT
 ZENER DIODES 5KZ
 DIODE IN4004
 RELAY PEG 33

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Title: PLC INTERFACE CHAMBER A OR B PCB.		DATE: 18/9/93		DRAWN: [Signature]	
02	18/9/93	1574	UPDATE CROSS REFERENCE NUMBERS	DATE: 30-7-93	CHECKED: [Signature]
01	30-7-93	-	FIRST ISSUE	DATE: 30-7-93	APPROVED: [Signature]
ISS	DATE	ECO	MODIFICATION	DATE	DATE

PLASMA TECHNOLOGY
 NORTH END, YATTON, BRISTOL BS18 4AP ENGLAND
 OXFORD
 COPYRIGHT 1993 PLASMA TECHNOLOGY
 SIZE: Document Number
 D: SE81B15961
 DATE: 18/9/93
 REV: 02

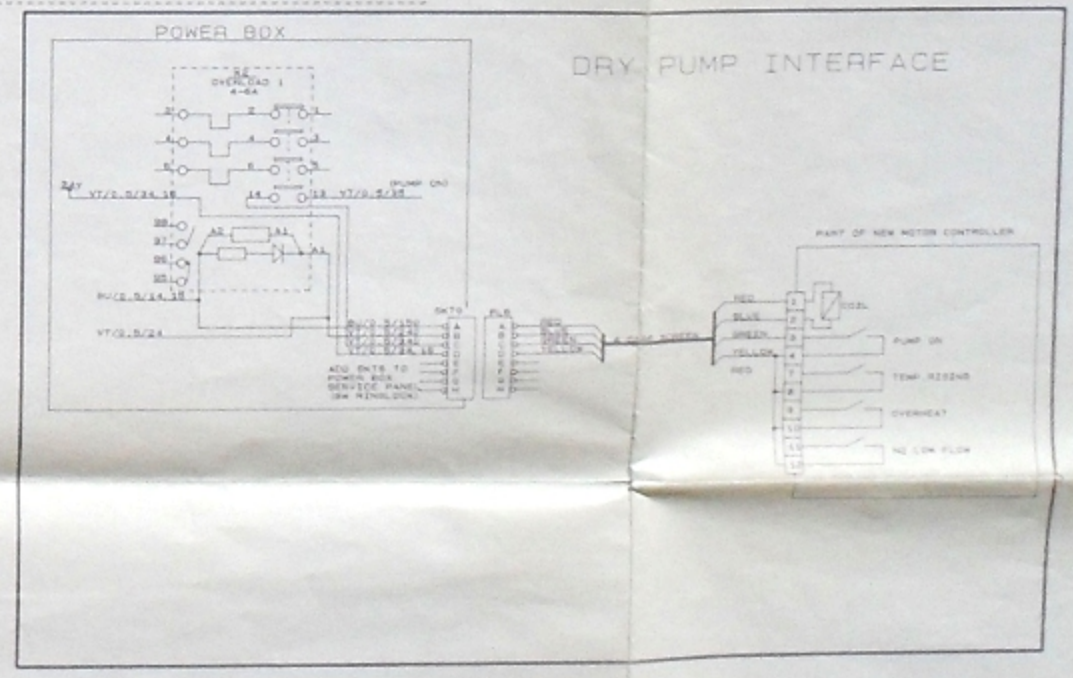
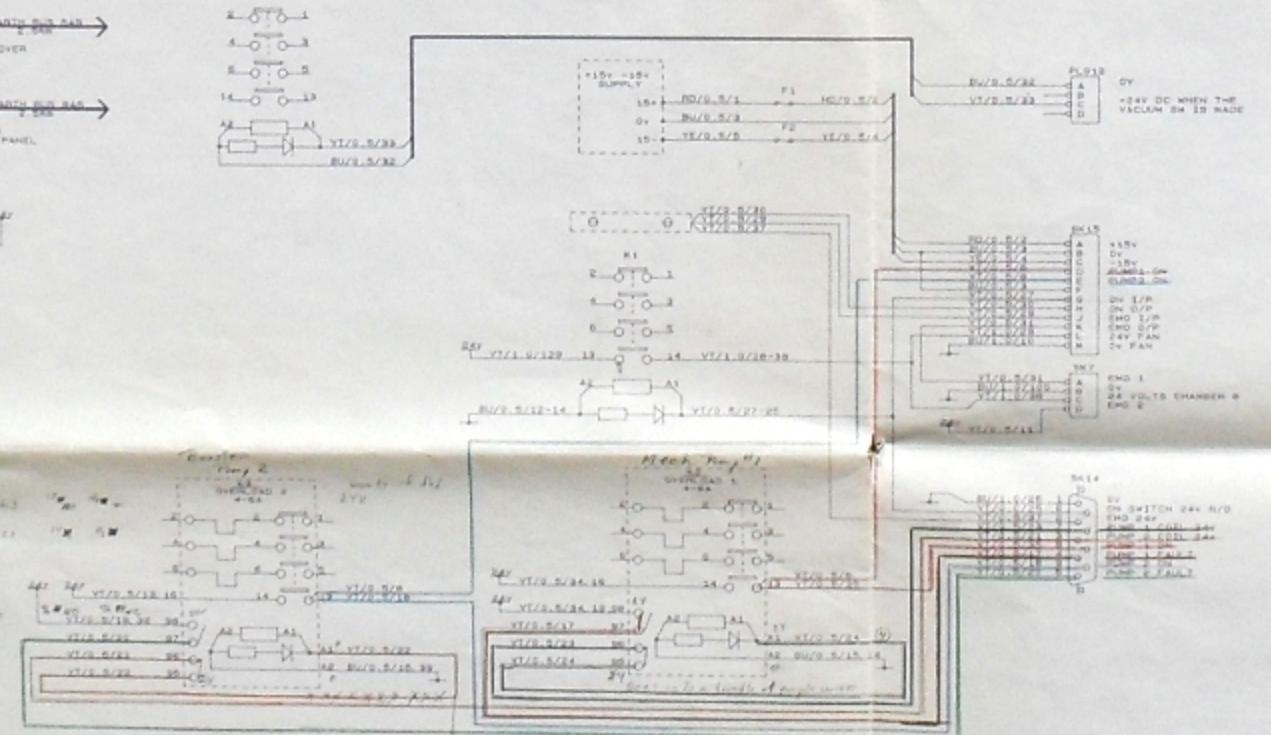
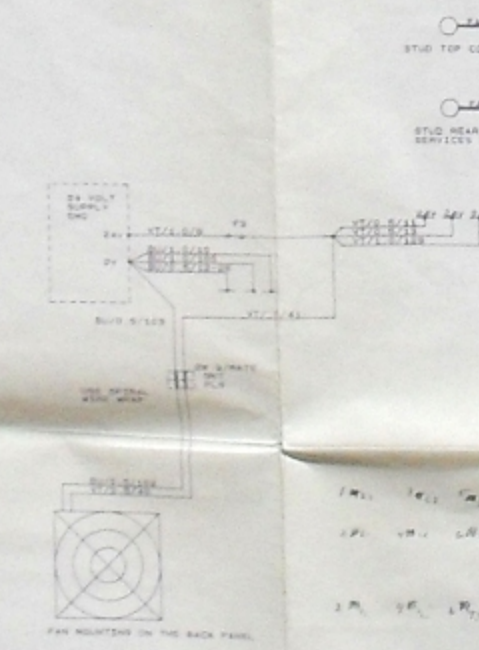
3 PHASE WIRING.



CONTROL WIRING

COLOUR CHART

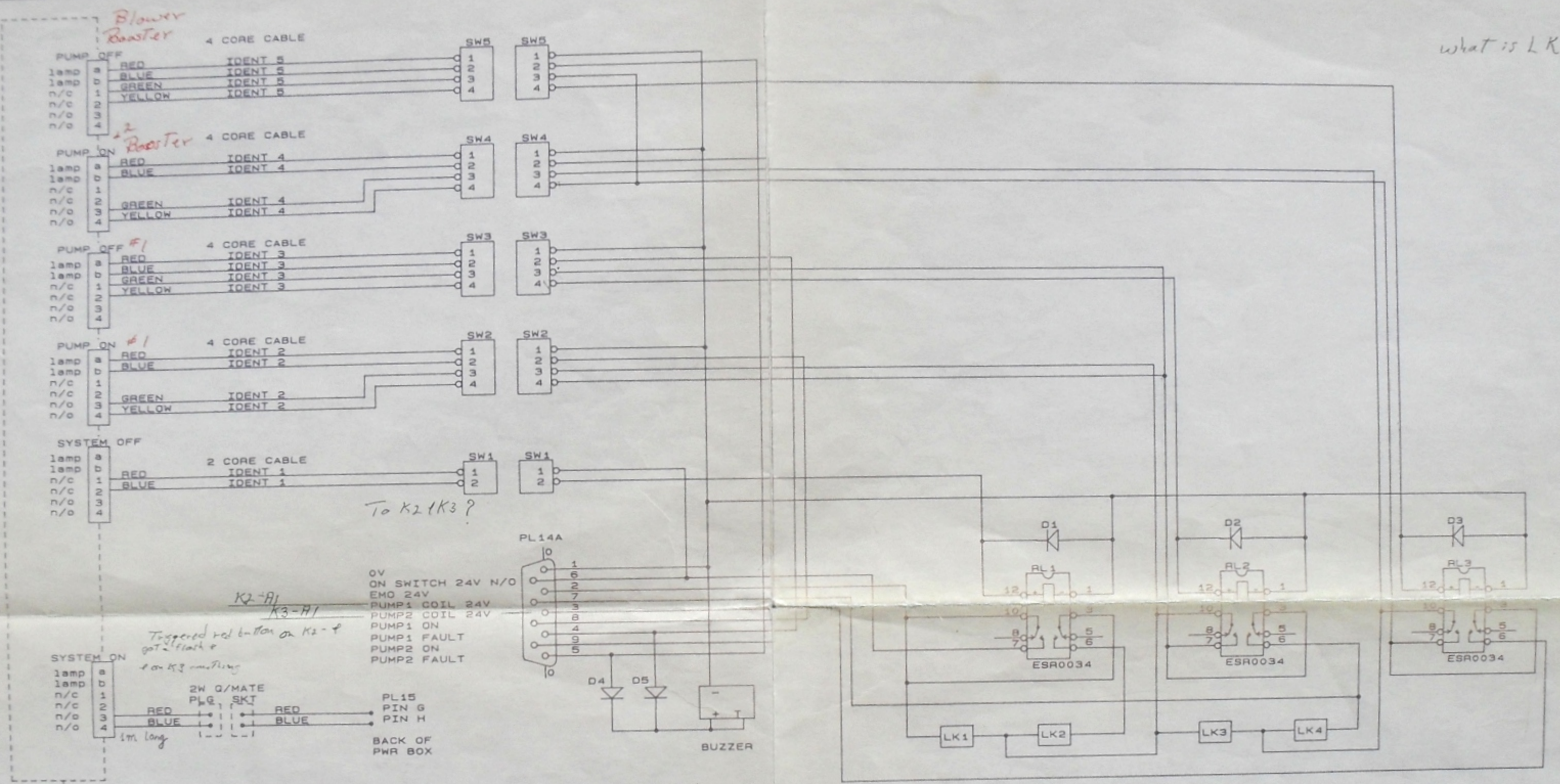
BK	BLACK
BU	BLUE
BN	BROWN
GN	GREEN
GY	GREY
OS	ORANGE
RD	RED
VT	VIOLET
WH	WHITE
YE	YELLOW



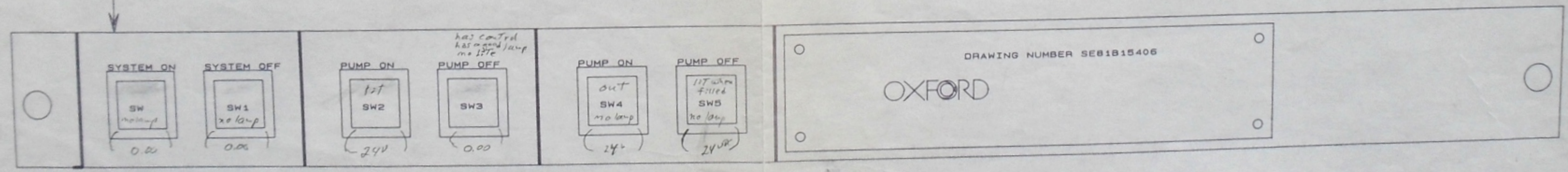
NOTES:
 1. ALL WIRING MUST BE DONE IN ACCORDANCE WITH THE IEC 60364-5-52:2002 (WIRING REGULATIONS) AND THE IEC 60364-5-53:2002 (PROTECTION AGAINST ELECTRIC SHOCK).

Check all wiring to be done by qualified person only.
 Check all wiring to be done by qualified person only.
 Check all wiring to be done by qualified person only.
 Check all wiring to be done by qualified person only.

what is LK 1 (2)(3) etc



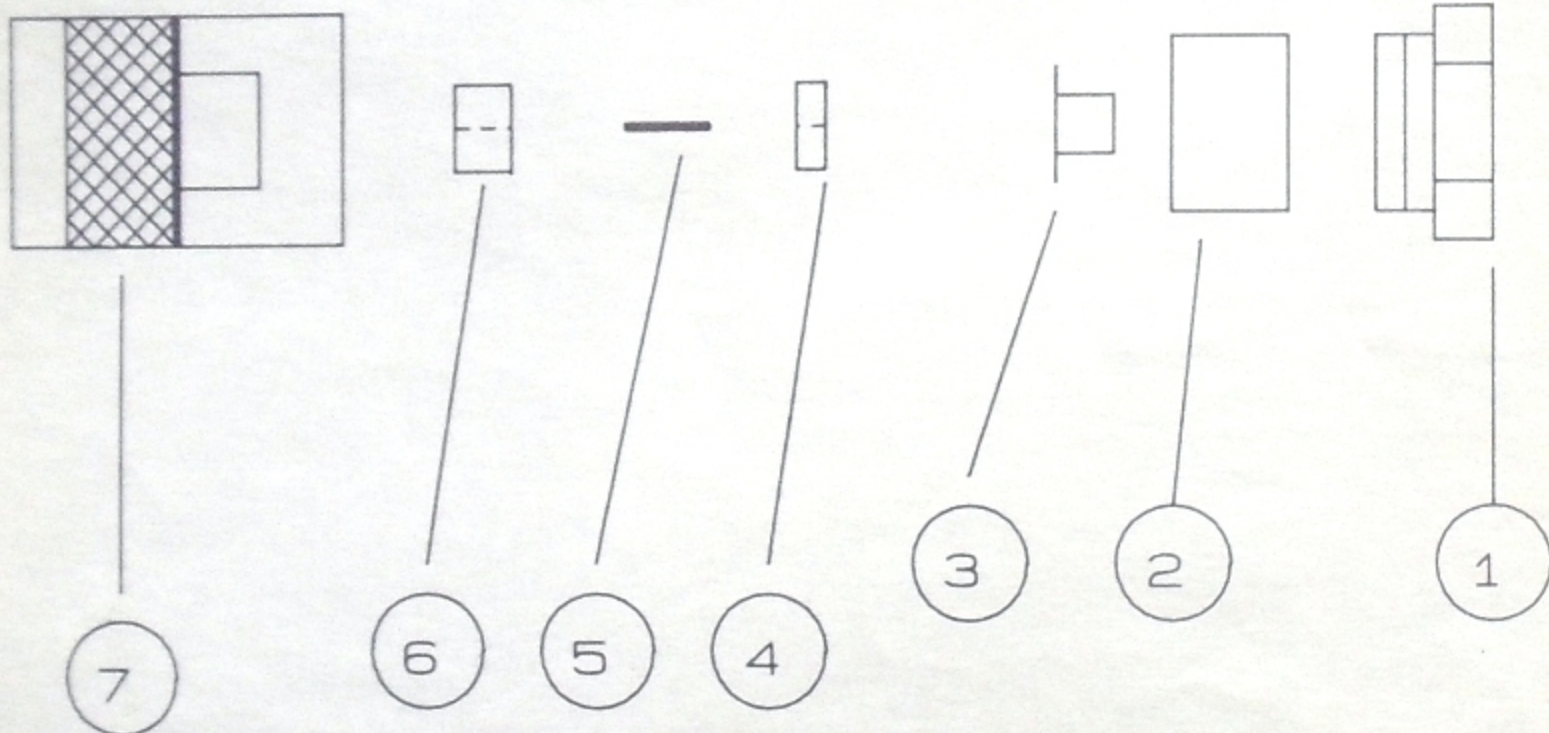
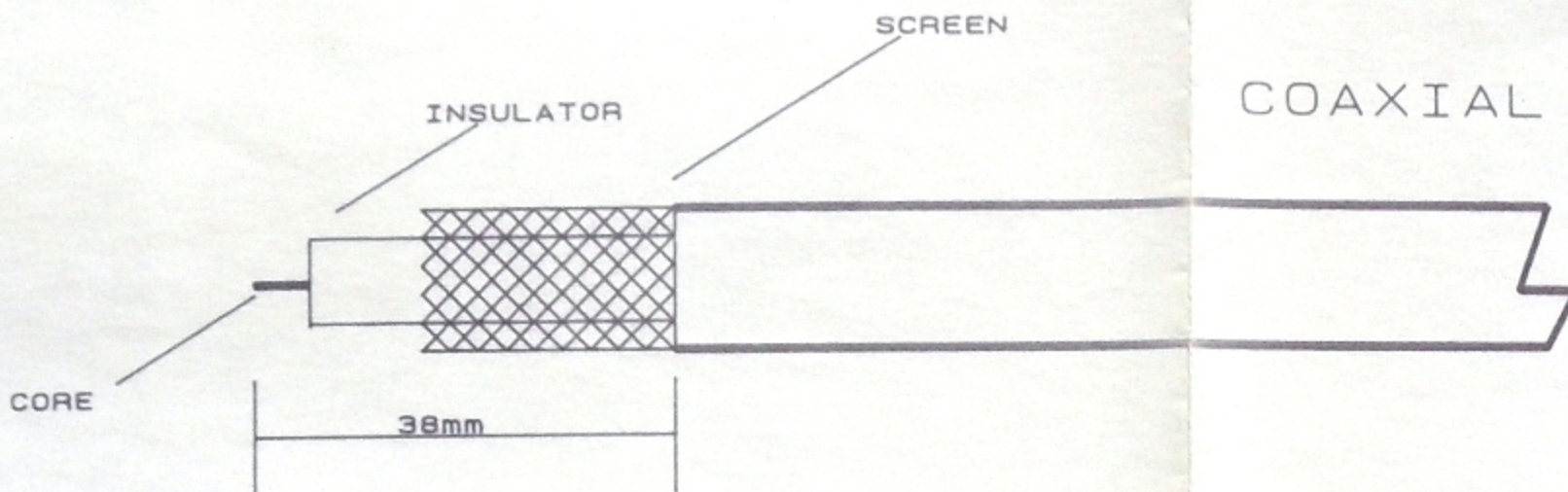
PUMP PANEL



Pump Control Panel

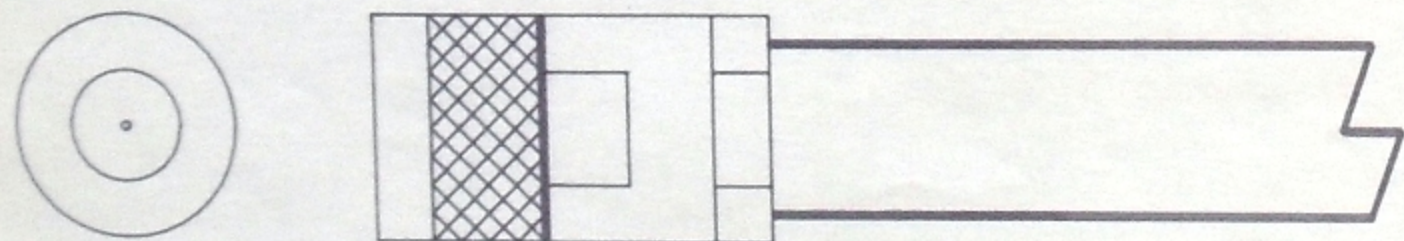
<p>THIS DRAWING BELONGS TO PLASMA TECHNOLOGY AND IS ISSUED ON CONDITION THAT IT IS NOT COPIED REPRINTED OR DISCLOSED EITHER IN WHOLE OR IN PART TO A THIRD PARTY WITHOUT THE CONSENT IN WRITING OF PLASMA TECHNOLOGY</p>	<p>Title : 80 PLUS PUMP CONTROL PANEL</p>			<p>PATH: H:\ORCAD\80PLUS\ MA15410.SCH</p>	<p>PLASMA TECHNOLOGY NORTH END, YATTON, BRISTOL BS10 4AP ENGLAND</p>		
	<p>02 31-05-96 2498 ADD SYSTEM ON SW</p>	<p>01 08-02-93 FIRST ISSUE</p>	<p>ISS DATE ECO</p>	<p>DRAWN PDR DATE 8-02-93</p>	<p>CHECKED DATE 31/5/96</p>	<p>APPROVED DATE</p>	<p>© COPYRIGHT 1993 PLASMA TECHNOLOGY MAB1C15410 Date: May 26, 1996 Sheet 01</p>
	<p>MODIFICATION</p>			<p>Size: Drg. C</p>		<p>REV 02</p>	

COAXIAL CABLE

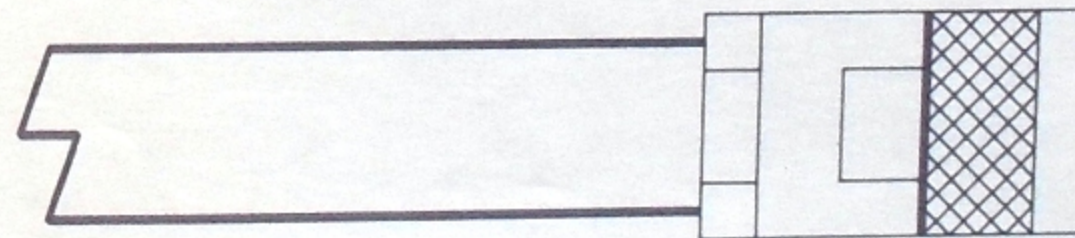


N SERIES PLUG

NOTE: PUT ITEM 1 & 2 IN THE CABLE. CUT THE BLACK PVC TO THE LENGTH OF 38mm AS SHOWN ABOVE. PUT ITEM 3 BETWEEN THE SCREEN & THE INSULATOR & TRIM THE SCREEN. CUT THE INSULATOR, PUT ITEM 4 IN THE CORE. SOLDER ITEM 5 TO THE CORE. PUT ITEM 6 IN ITEM 5. SLIDE ITEM 7 IN SCREW IT WITH ITEM 1. CHECK ITEM 5 DOES NOT SHORT TO ITEM 7.



2.655m
(MAX 2.66 metre)



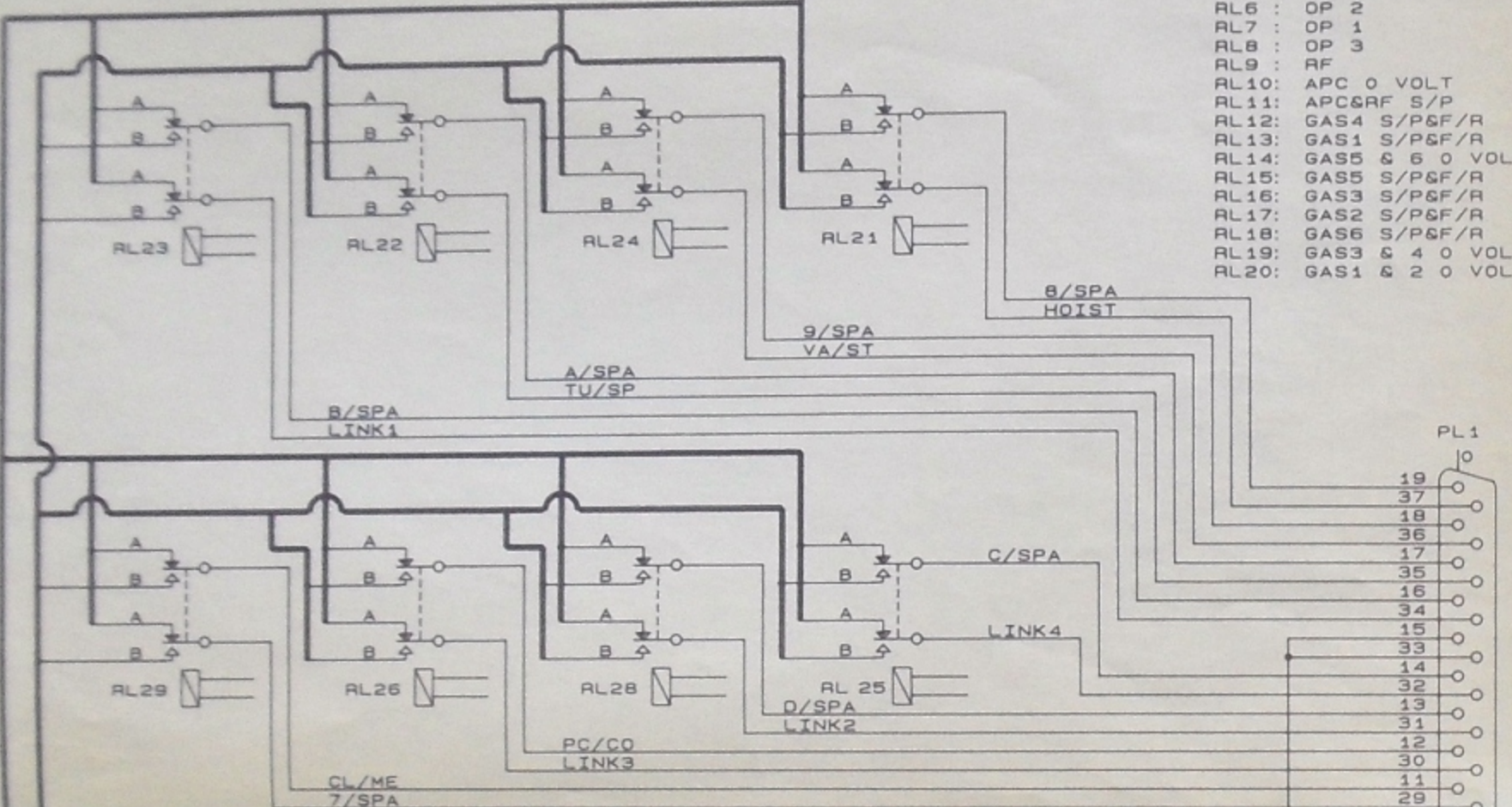
R.F. Cable

Title			80+ RF CABLE SOURCE			PATH: D:\CAD\80PLC		PLASMA TECHNOLOGY		OXFORD	
						FILENAME: SE19321.SCH		NORTH END, YATTON, BRISTOL BS19 4AP ENGLAND			
						CHECKED		APPROVED		REV	
01			10/11/95			DATE		DATE		01	
ISS			DATE			9/11/95				SE81D19321	
8			7			5		3		1 of 1	
			MODIFICATION					Date: November 9, 1995		Sheet 1 of 1	

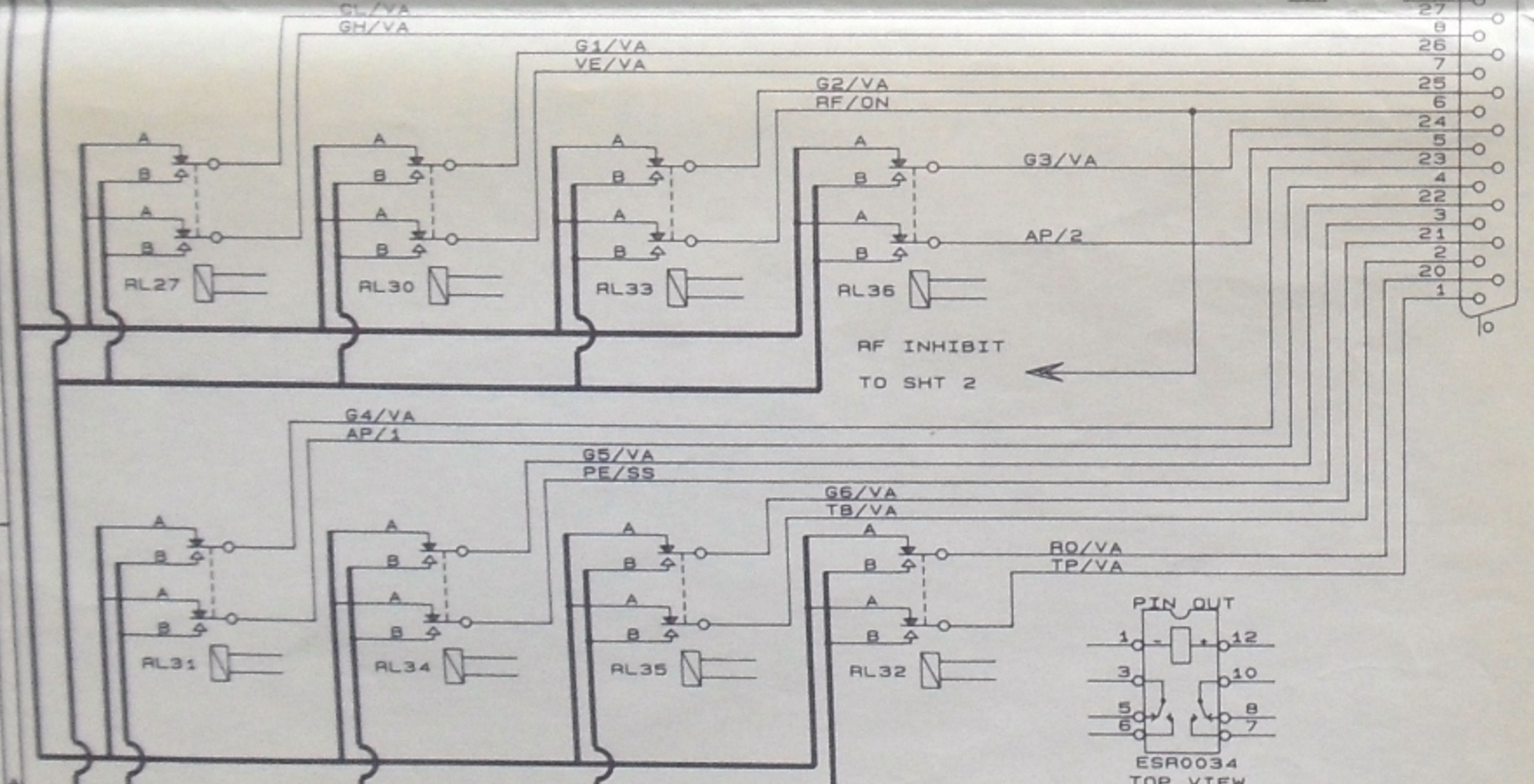
TO SHT 2

CHAMBER A BUS.

- RL1 : CM GAUGE
- RL2 : DC BIAS
- RL3 : TEMP. I/P
- RL4 : PENNING
- RL5 : HEATER S/P
- RL6 : OP 2
- RL7 : OP 1
- RL8 : OP 3
- RL9 : RF
- RL10 : APC 0 VOLT
- RL11 : APC&RF S/P
- RL12 : GAS4 S/P&F/R
- RL13 : GAS1 S/P&F/R
- RL14 : GAS5 & 6 0 VOLT
- RL15 : GAS5 S/P&F/R
- RL16 : GAS3 S/P&F/R
- RL17 : GAS2 S/P&F/R
- RL18 : GAS6 S/P&F/R
- RL19 : GAS3 & 4 0 VOLT
- RL20 : GAS1 & 2 0 VOLT



RELAYS DE-ENERGISED = CHAMBER A.

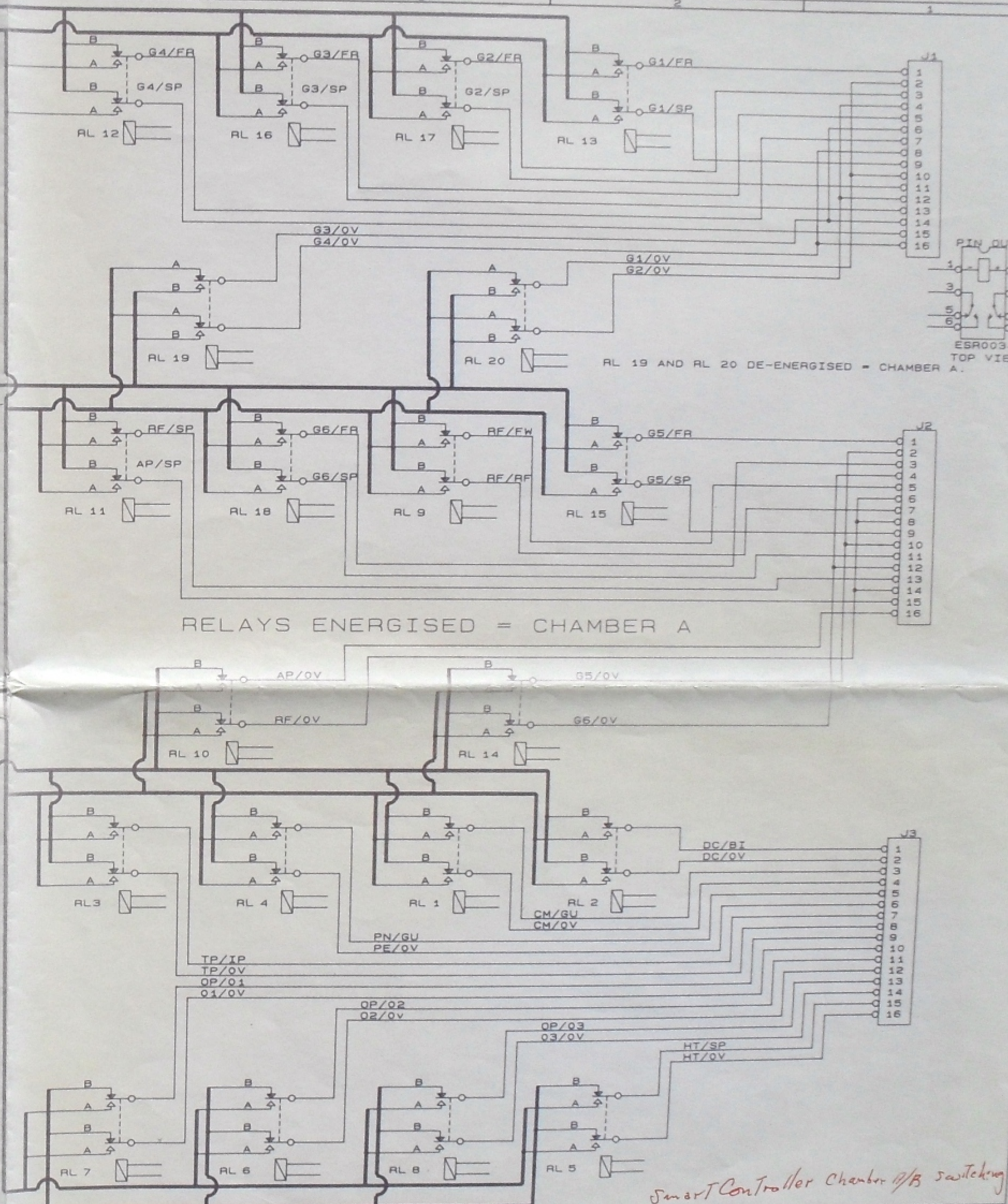


CHAMBER B BUS.

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Title SMART CONTROLLER CHAMBER A/B SWITCHING CARD.			
01	26-07-93	-	FIRST ISSUE
ISS	DATE	ECO	MODIFICATION

TO SHT 2



RELAYS ENERGIISED = CHAMBER A

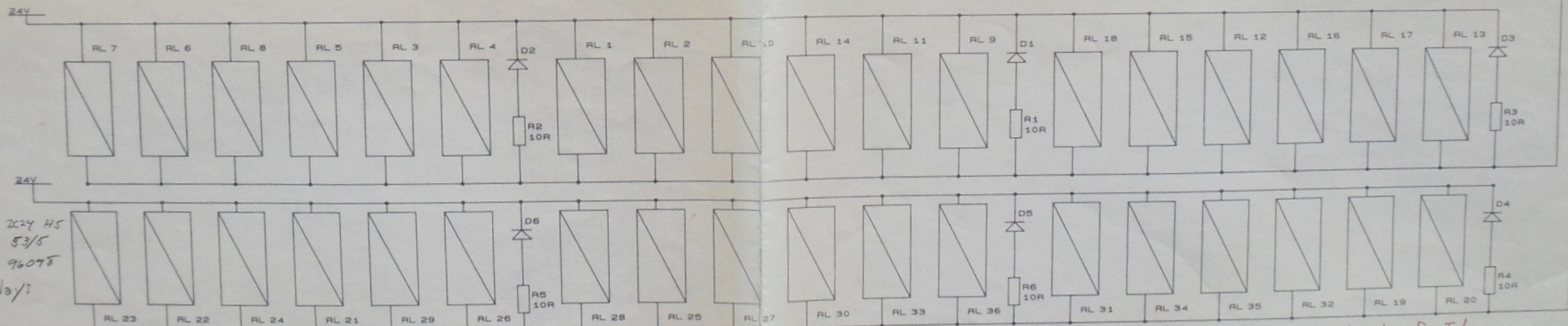
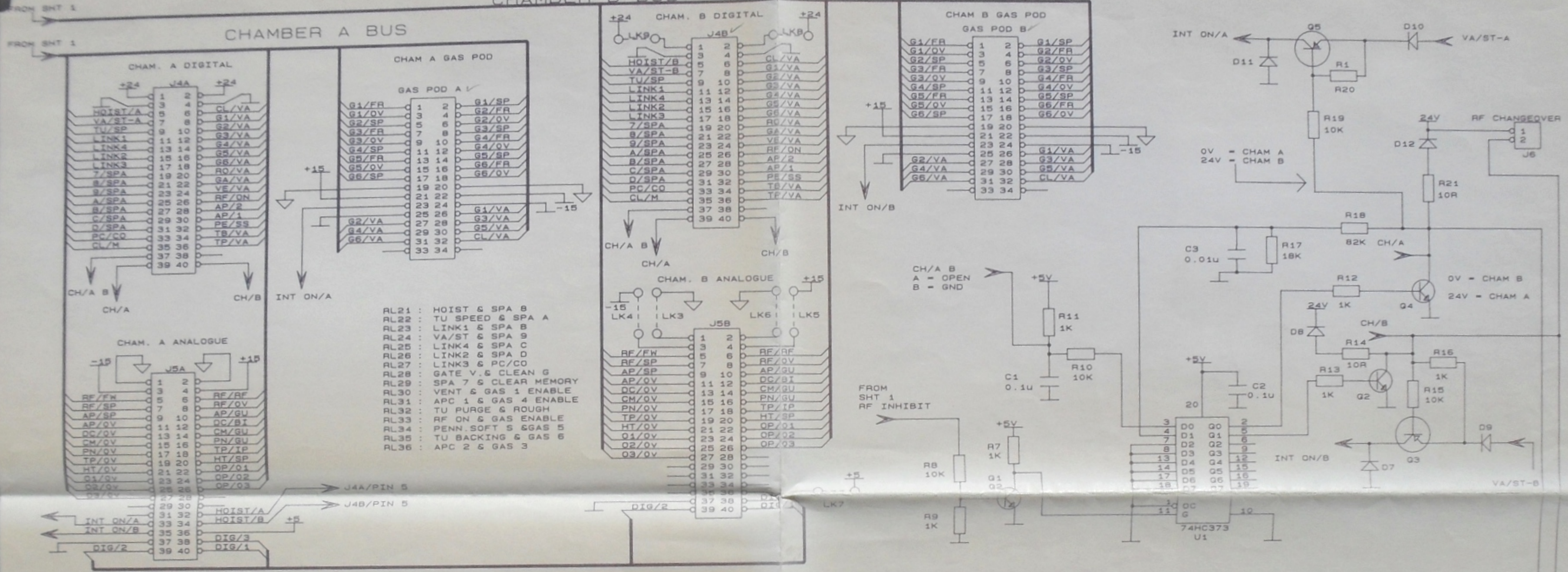
Smart Controller Chamber A/B switching

PATH: D:\CAD\BOPLC	PLASMA TECHNOLOGY	
FILENAME: 15937-1	NORTH END, YATTON, BRISTOL BS19 4AP ENGLAND	
DRAWN JF	CHECKED H/	APPROVED
DATE 26-07-93	DATE 15/3/95	DATE

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Size Drg. C	SE81C15937	1 of 2
Date: November 7, 1995	Sheet	1 of 2

CHAMBER B BUS

CHAMBER A BUS



DF2 224 H5
NAT 53/5
96078
Relays

NOTE.

ANALOGUE GROUND. SOLDERED
WIRE LINK

DIGITAL GROUND.

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Title SMART CONTROLLER CHAMBER A/B SWITCHING

01	26-07-93	-
ISS	DATE	ECO

MODIFICATION

DRAWN JF
DATE 26/07/93

CHECKED Hms
DATE 15/8/95

APPROVED
DATE

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Size Drg. SE81C15937

Date: NOVEMBER 7, 1995 Sheet 2 of 2