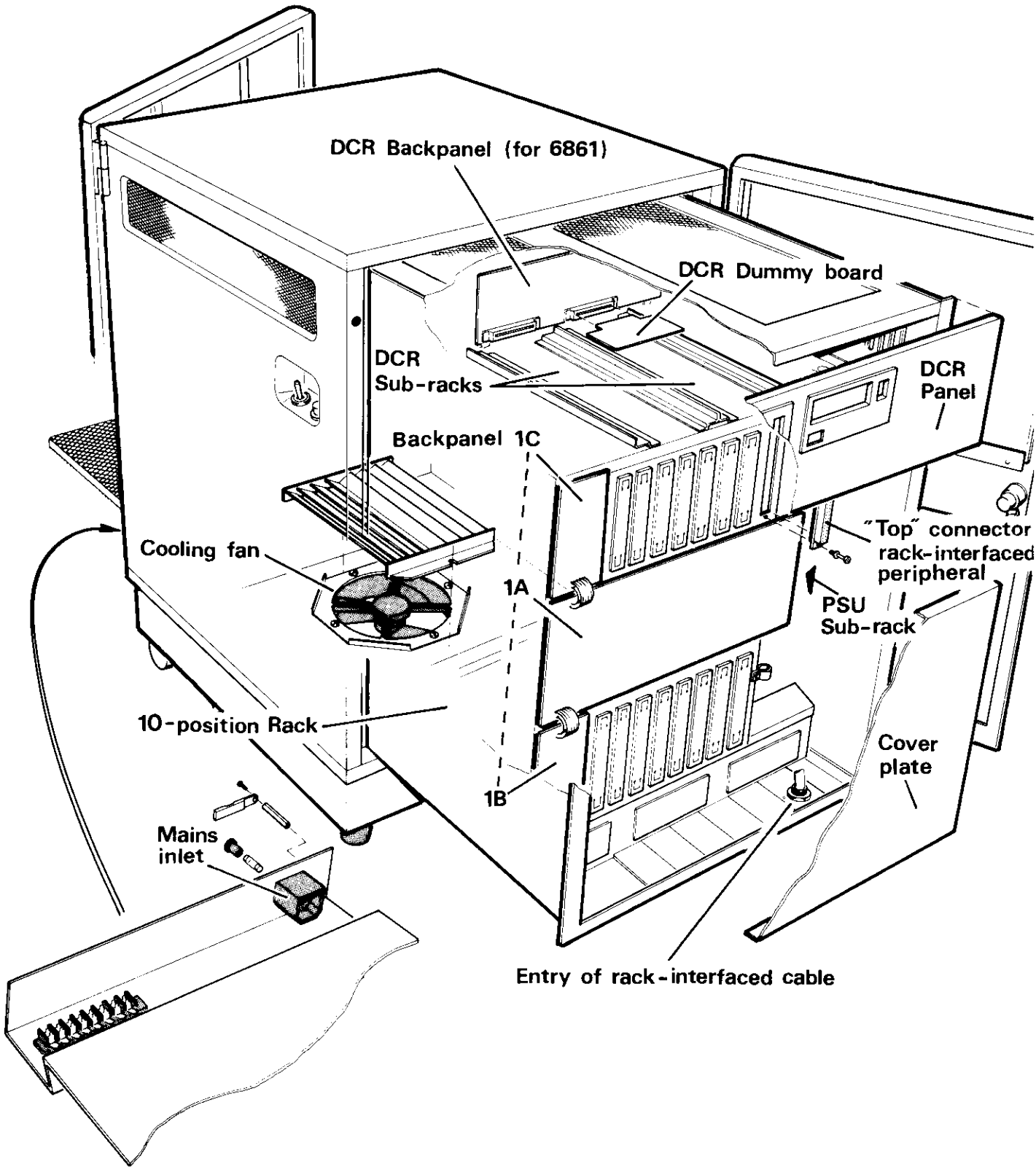
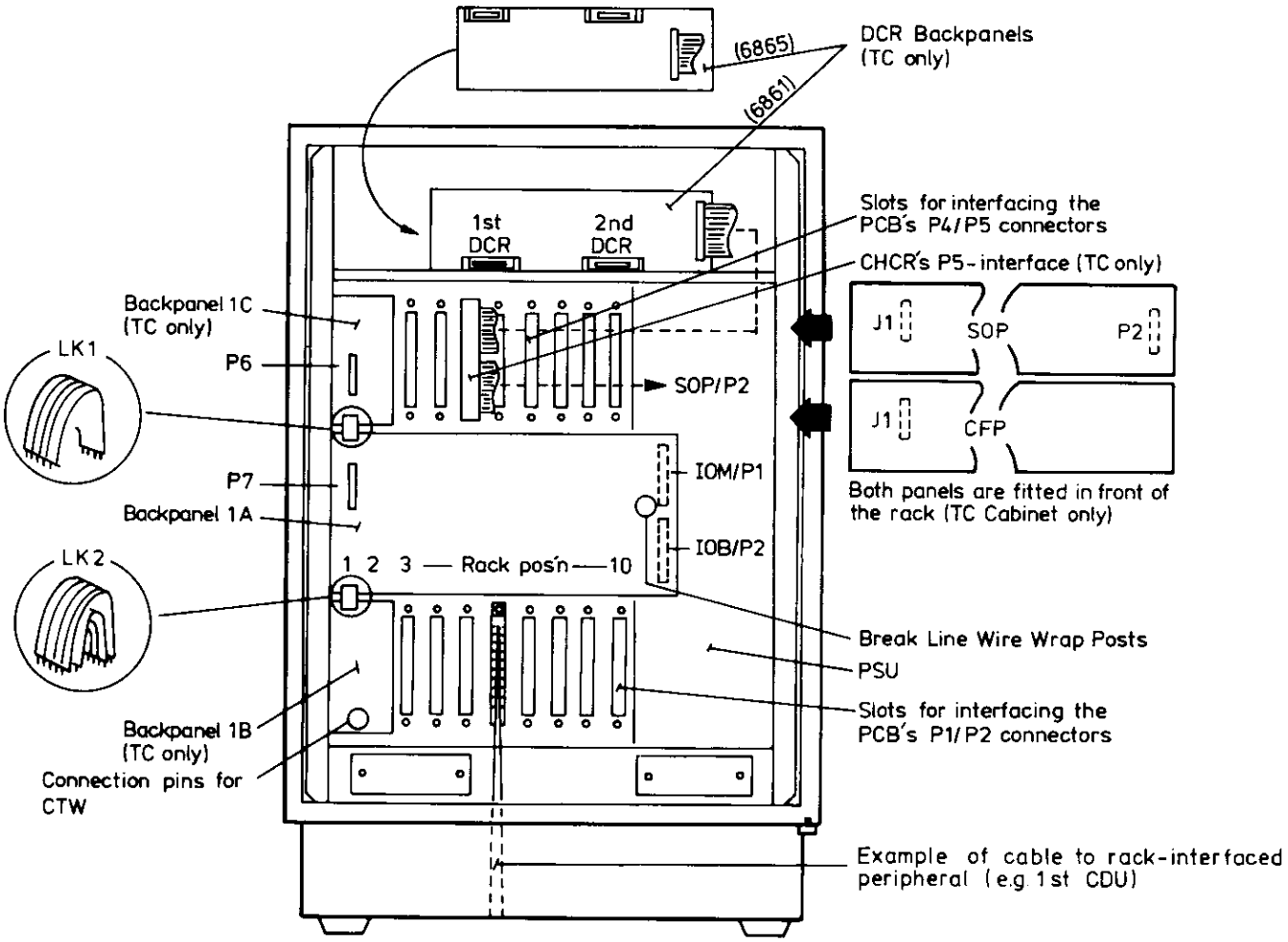
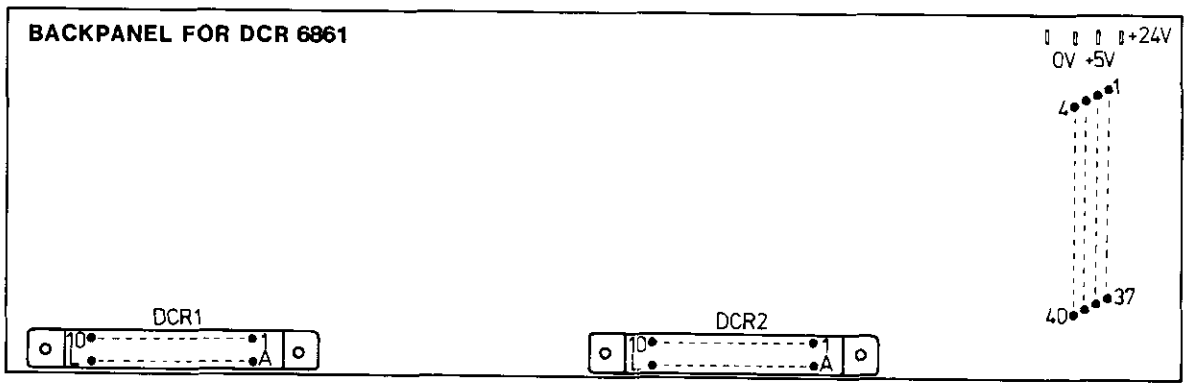
CONTENTS

* To be supplied.

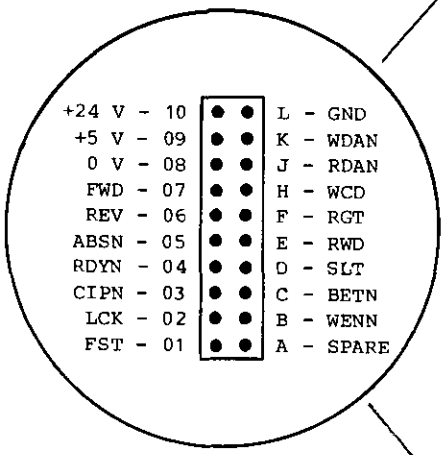

DCR Backpanel (for 6861)
DCR Dummy board
DCR
Sub-racks
DCR
Panel
Backpanel 1C
"Top" connector
rack-interfaced
peripheral
Cooling fan
1A
PSU
Sub-rack
10-position Rack
Cover
plate
1B
Mains
inlet
Entry of rack-interfaced cable

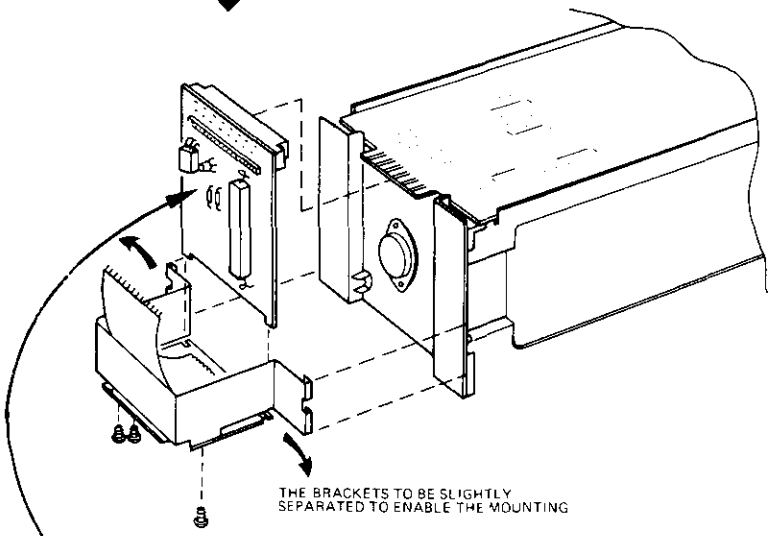
TC & EXU CABINETS — Front view of backpanels and connectors



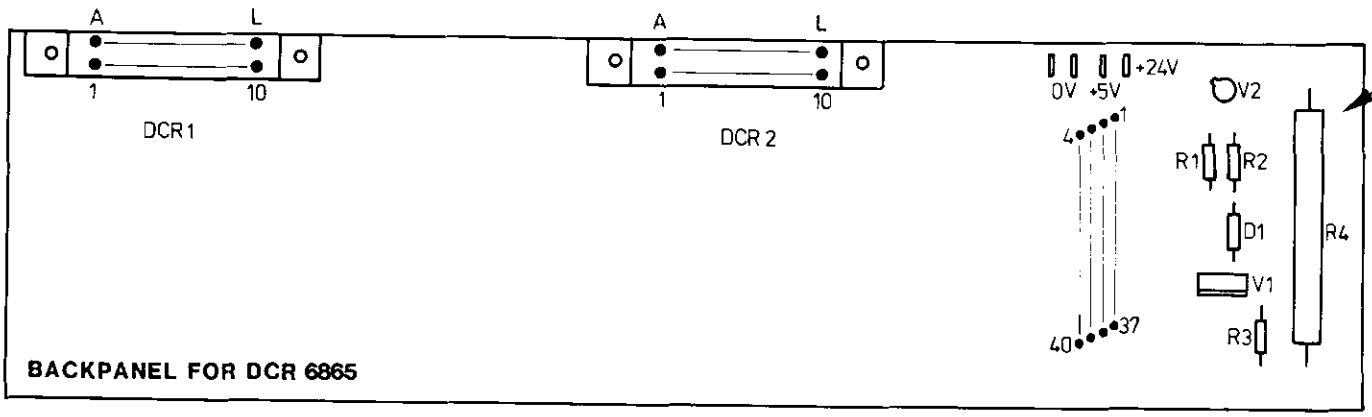


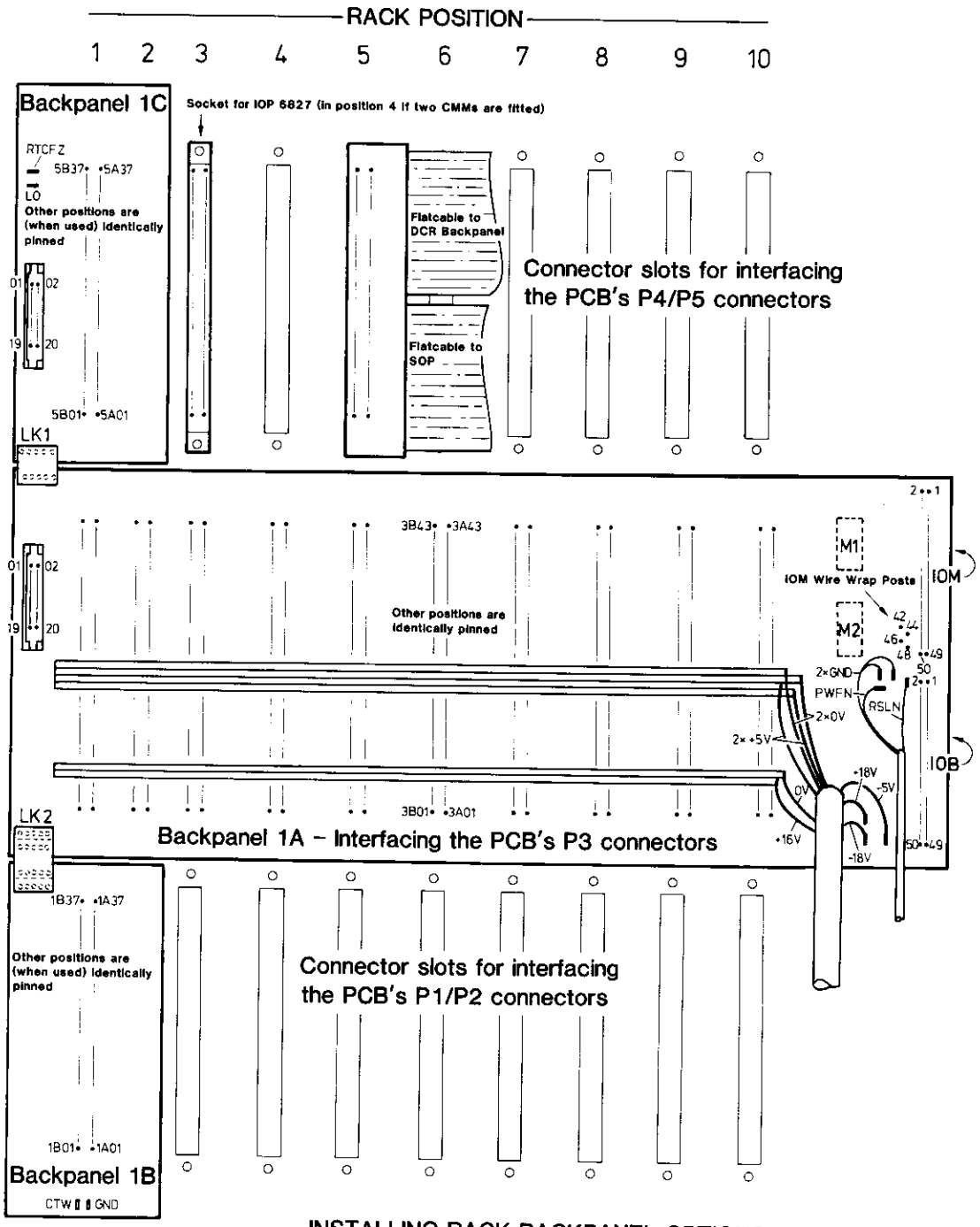
Modification kit for adapting DCR 6865 to the original backpanel (for DCR 68





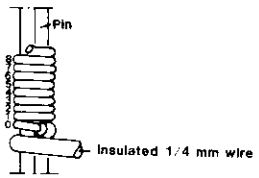
Control circuit for 24V, see Power Distribution



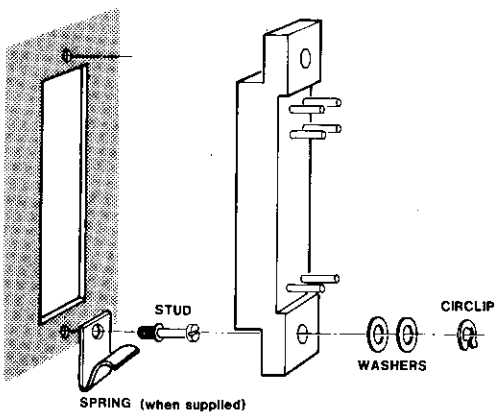


INSTALLING RACK BACKPANEL OPTIONS

Additional wire wrap connections



Socket for P1/P2 or P4/P5 connectors



P5 - CPU P852

INSTN - 5B37		5A37 - READRN
READMN - 5B36		5A36 - LOADMN
RCP 02N - 5B35		5A35 - RCP 03N
RCP 01N - 5B34		5A34 - READSTN
RUNFA - 5B33		5A33 - LOADRN
CPINT - 5B32		5A32 - RCP 00N
START - 5B31		5A31 - RUNN
IPL - 5B30		5A30 - UNLOCKN
CPMCN - 5B29		5A29 - BIOEKEY
SPARE - 5B28		5A28 - SPARE
" - 5B27		5A27 - "
" - 5B26		5A26 - "
" - 5B25		5A25 - "
" - 5B24		5A24 - "
" - 5B23		5A23 - "
" - 5B22		5A22 - "
" - 5B21		5A21 - "
" - 5B20		5A20 - "
" - 5B19		5A19 - "
" - 5B18		5A18 - "
" - 5B17		5A17 - "
" - 5B16		5A16 - "
" - 5B15		5A15 - "
" - 5B14		5A14 - "
" - 5B13		5A13 - "
" - 5B12		5A12 - "
" - 5B11		5A11 - "
" - 5B10		5A10 - "
" - 5B09		5A09 - "
" - 5B08		5A08 - "
" - 5B07		5A07 - "
" - 5B06		5A06 - "
" - 5B05		5A05 - "
" - 5B04		5A04 - "
" - 5B03		5A03 - "
" - 5B02		5A02 - "
" - 5B01		5A01 - "

P4/P5 - IOP 6827

NOT USED - 5B13		5A13 - NOT USED
" " - 5B12		5A12 - " "
" " - 5B11		5A11 - " "
" " - 5B10		5A10 - " "
" " - 5B09		5A09 - " "
" " - 5B08		5A08 - " "
" " - 5B07		5A07 - " "
" " - 5B06		5A06 - " "
" " - 5B05		5A05 - " "
" " - 5B04		5A04 - " "
" " - 5B03		5A03 - " "
" " - 5B02		5A02 - " "
" " - 5B01		5A01 - " "

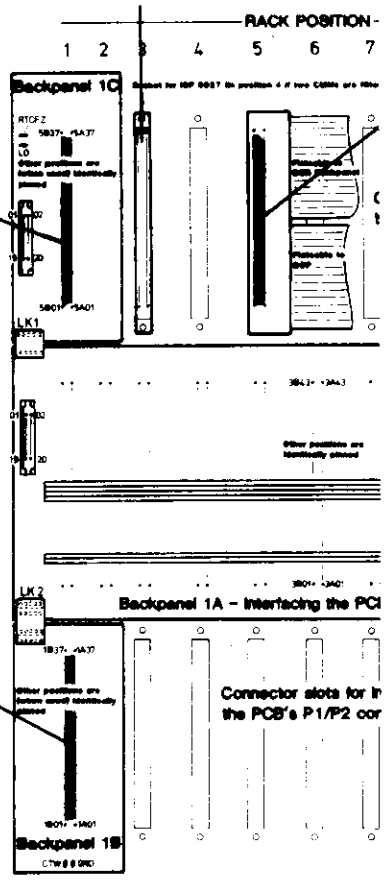
No board connector in this section

BR 00N - 4B13		4A13 - NOT USED
BR 01N - 4B12		4A12 - " "
BR 02N - 4B11		4A11 - " "
BR 03N - 4B10		4A10 - " "
BR 04N - 4B09		4A09 - " "
BR 05N - 4B08		4A08 - " "
BR 06N - 4B07		4A07 - " "
BR 07N - 4B06		4A06 - " "
SPARE - 4B05		4A05 - " "
" - 4B04		4A04 - " "
" - 4B03		4A03 - " "
" - 4B02		4A02 - " "
" - 4B01		4A01 - " "

NOTE: BR 07 - BR 15 on the same pins on a 2nd I

P1 - CPU P852

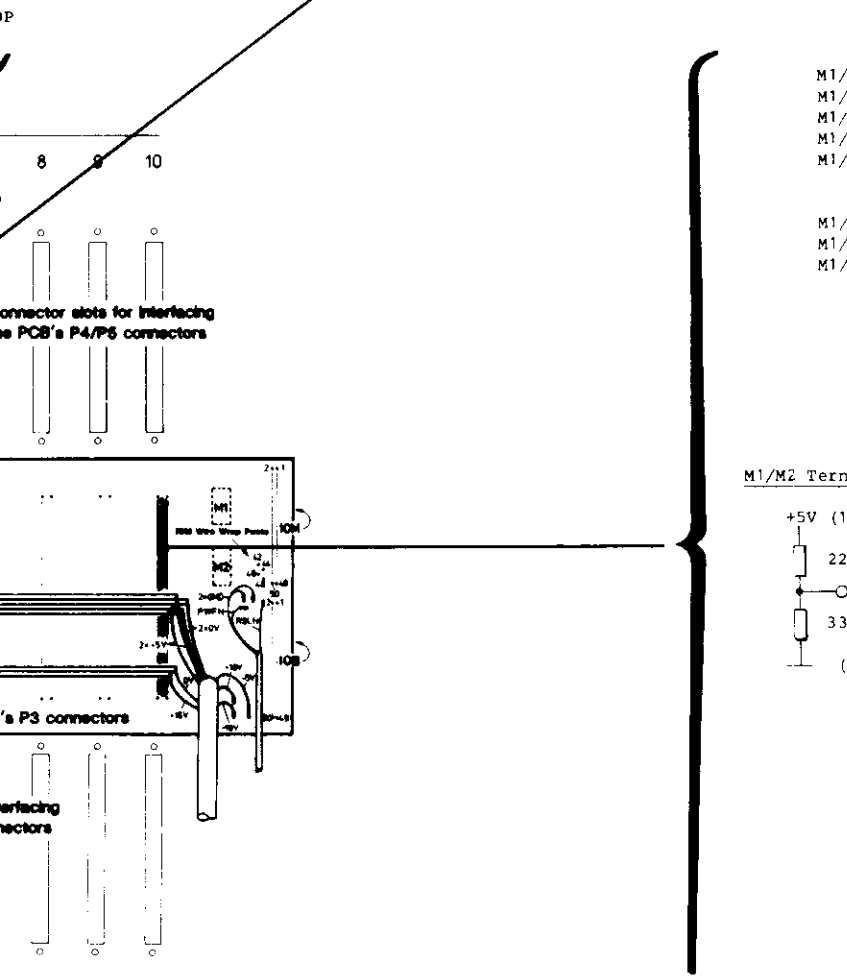
SPARE - 1B37		1A37 - SPARE
" - 1B36		1A36 - "
" - 1B35		1A35 - "
" - 1B34		1A34 - "
" - 1B33		1A33 - "
" - 1B32		1A32 - "
" - 1B31		1A31 - "
" - 1B30		1A30 - "
" - 1B29		1A29 - "
" - 1B28		1A28 - "
" - 1B27		1A27 - "
" - 1B26		1A26 - "
" - 1B25		1A25 - "
" - 1B24		1A24 - "
" - 1B23		1A23 - "
" - 1B22		1A22 - "
" - 1B21		1A21 - "
" - 1B20		1A20 - "
" - 1B19		1A19 - "
" - 1B18		1A18 - "
" - 1B17		1A17 - "
" - 1B16		1A16 - "
" - 1B15		1A15 - "
" - 1B14		1A14 - "
" - 1B13		1A13 - "
" - 1B12		1A12 - INTASRN/IS 07N
IS 00N - 1B11		1A11 - IS 01N/PIFN
IS 07N - 1B10		1A10 - IS 03N
BIEC 0 - 1B09		1A09 - IS 06N/CPFN
BIEC 3 - 1B08		1A08 - BIEC 5
BIEC 1 - 1B07		1A07 - BIEC 2
RTCFZ1N - 1B06		1A06 - BIEC 4
IS 04N - 1B05		1A05 - PFFN/IS 00N
IS 05N - 1B04		1A04 - IS 02N/RTCAN
SCEIN - 1B03		1A03 - CPFN/IS 06N
RTCAN - 1B02		1A02 - PIFN/IS 01N
ASR LINE - 1B01		1A01 - 0 V



Rack Interfaces for Basic Control Units

P5 - CHCR 6833

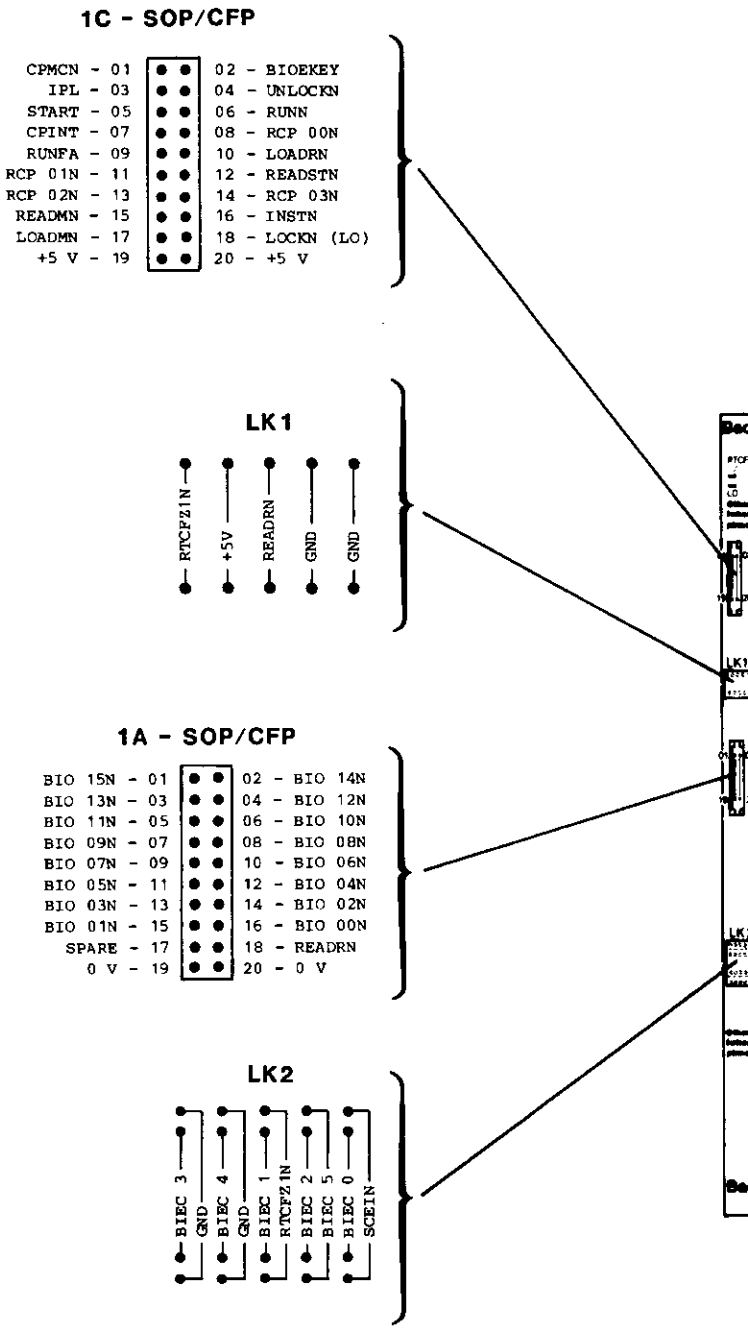
WEN 1N - 5B37	● ●	5A37 - WEN 0N
CIP 0N - 5B36	● ●	5A36 - GND
CIP 1N - 5B35	● ●	5A35 - RDY 0N
RDY 1N - 5B34	● ●	5A34 - GND
ABS 0N - 5B33	● ●	5A33 - "
ABS 1N - 5B32	● ●	5A32 - "
WDAN - 5B31	● ●	5A31 - "
BET 0N - 5B30	● ●	5A30 - "
BET 1N - 5B29	● ●	5A29 - "
RDA 0N - 5B28	● ●	5A28 - "
RDA 1N - 5B27	● ●	5A27 - "
FST - 5B26	● ●	5A26 - LCK 0
GND - 5B25	● ●	5A25 - LCK 1
REV - 5B24	● ●	5A24 - GND
FWD - 5B23	● ●	5A23 - SLT 0
GND - 5B22	● ●	5A22 - SLT 1
RGT - 5B21	● ●	5A21 - GND
RWD - 5B20	● ●	5A20 - "
WCD - 5B19	● ●	5A19 - LED 13N
+5 V - 5B18	● ●	5A18 - +5 V
LED 15N - 5B17	● ●	5A17 - LED 10N
LED 14N - 5B16	● ●	5A16 - SPARE
LED 12N - 5B15	● ●	5A15 - LED 11N
LED 09N - 5B14	● ●	5A14 - SPARE
LED 08N - 5B13	● ●	5A13 - "
LED 07N - 5B12	● ●	5A12 - "
LED 06N - 5B11	● ●	5A11 - LED 05N
DSW 06N - 5B10	● ●	5A10 - SPARE
CHAIN ENDN - 5B09	● ●	5A09 - "
DSW 07N - 5B08	● ●	5A08 - "
DSW 15N - 5B07	● ●	5A07 - CHAIN BEGINN
DSW 14N - 5B06	● ●	5A06 - SPARE
DSW 13N - 5B05	● ●	5A05 - "
SPARE - 5B04	● ●	5A04 - "
DSW 12N - 5B03	● ●	5A03 - "
DSW 11N - 5B02	● ●	5A02 - DSW 10N
DSW 09N - 5B01	● ●	5A01 - DSW 08N

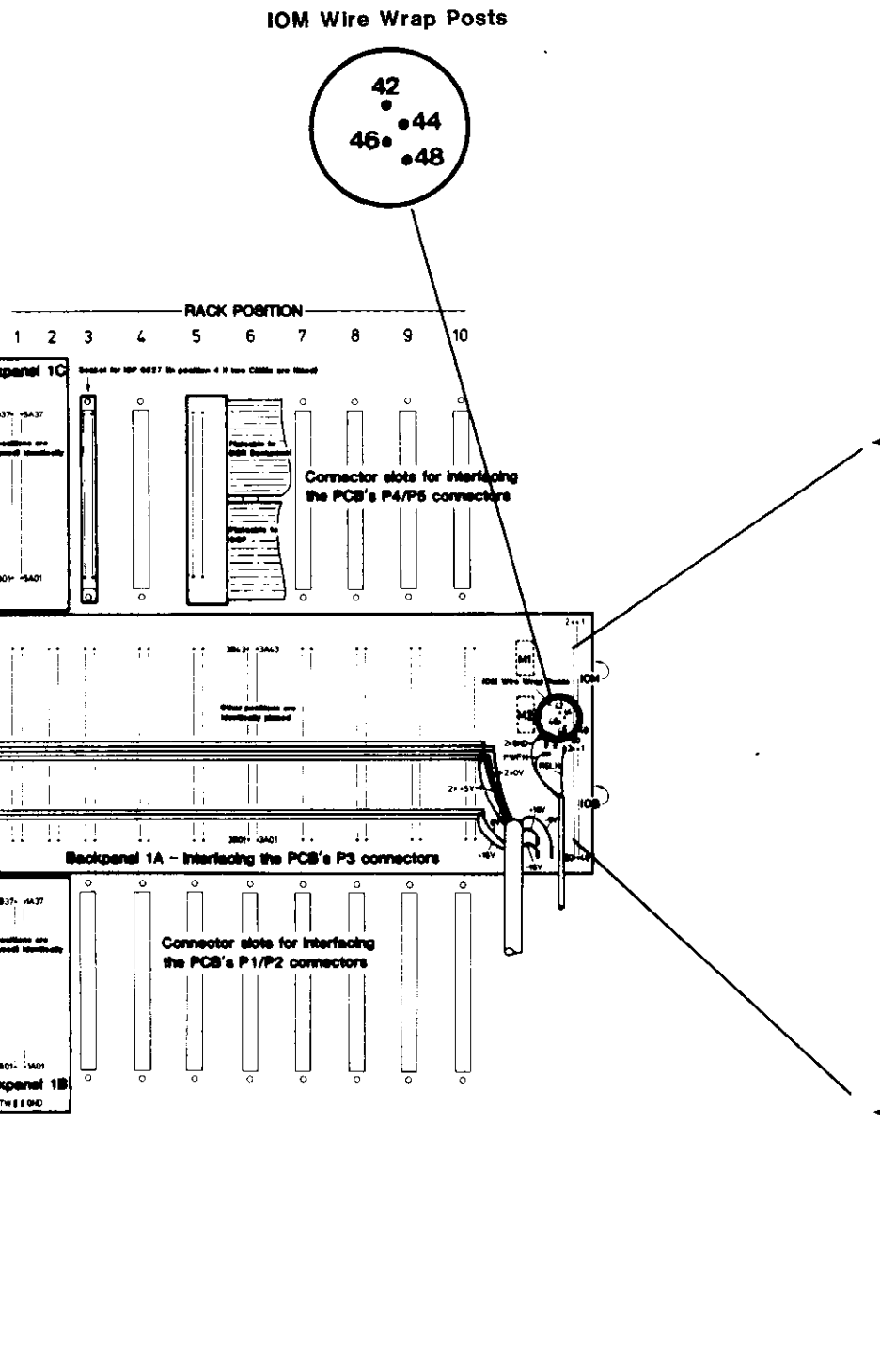


P3 - GENERAL

M1/15 ---	MAD 128 - 3B43	● ●	3A43 - BR
M1/14 ---	MAD 64 - 3B42	● ●	3A42 - BR
M1/13 ---	MAD 00 - 3B41	● ●	3A41 - BR
M1/12 ---	MAD 01 - 3B40	● ●	3A40 - GND
M1/11 ---	MAD 02 - 3B39	● ●	3A39 - CLEARN
	MAD 03 - 3B38	● ●	3A38 - BSYN ----- M1/10
	MAD 04 - 3B37	● ●	3A37 - MSN ------ M1/9
M1/5 ----	MAD 05 - 3B36	● ●	3A36 - BUSRN ---- M1/7
M1/4 ----	MAD 06 - 3B35	● ●	3A35 - SPYC ----- M1/6
M1/3 ----	MAD 07 - 3B34	● ●	3A34 - ACN
	MAD 08 - 3B33	● ●	3A33 - GND
	MAD 09 - 3B32	● ●	3A32 - TPMN
	MAD 10 - 3B31	● ●	3A31 - TMPN
	MAD 11 - 3B30	● ●	3A30 - TMEN
	MAD 12 - 3B29	● ●	3A29 - TMRN ----- M2/15
	MAD 13 - 3B28	● ●	3A28 - TRMN
	MAD 14 - 3B27	● ●	3A27 - CHA ------ M2/13
	MAD 15 - 3B26	● ●	3A26 - WRITE ---- M2/12
	+16 V - 3B25	● ●	3A25 - GND
	GND - 3B24	● ●	3A24 - GND
	+5 V - 3B23	● ●	3A23 - BR
	0 V - 3B22	● ●	3A22 - 0 V
	0 V - 3B21	● ●	3A21 - 0 V
	+5 V - 3B20	● ●	3A20 - +5 V
	+5 V - 3B19	● ●	3A19 - +5 V
	-5 V - 3B18	● ●	3A18 - 0 V
	RSLN - 3B17	● ●	3A17 - PWFN
	OKI - 3B16	● ●	3A16 - OKO
	BIO 15N - 3B15	● ●	3A15 - BIO 14N
	BIO 13N - 3B14	● ●	3A14 - BIO 12N
	BIO 11N - 3B13	● ●	3A13 - BIO 10N
	BIO 09N - 3B12	● ●	3A12 - BIO 08N
	BIO 07N - 3B11	● ●	3A11 - BIO 06N
	BIO 05N - 3B10	● ●	3A10 - BIO 04N
	BIO 03N - 3B09	● ●	3A09 - BIO 02N
	BIO 01N - 3B08	● ●	3A08 - BIO 00N
	0 V - 3B07	● ●	3A07 - 0 V
	+16 V - 3B06	● ●	3A06 - +16 V
	BIEC 5 - 3B05	● ●	3A05 - SCEIN
	BIEC 3 - 3B04	● ●	3A04 - BIEC 4
	BIEC 1 - 3B03	● ●	3A03 - BIEC 2
	Chassis GND - 3B02	● ●	3A02 - BIEC 0
	-18 V - 3B01	● ●	3A01 - +18 V

M1/M2 Ternets


1C - SOP/CFP
CPMCN - 01
IPL - 03
START - 05
CPINT - 07
RUNFA - 09
RCP 01N - 11
RCP 02N - 13
READMN - 15
LOADMN - 17
+5 V - 19
02 - BIOEKEY
04 - UNLOCKN
06 - RUNN
08 - RCP 00N
10 - LOADRN
12 - READSTN
14 - RCP 03N
16 - INSTN
18 - LOCKN (LO)
20 - +5 V
LK1
RTCPZIN
+5V
READRN
GND
GND
1A - SOP/CFP
BIO 15N - 01
BIO 13N - 03
BIO 11N - 05
BIO 09N - 07
BIO 07N - 09
BIO 05N - 11
BIO 03N - 13
BIO 01N - 15
SPARE - 17
0 V - 19
02 - BIO 14N
04 - BIO 12N
06 - BIO 10N
08 - BIO 08N
10 - BIO 06N
12 - BIO 04N
14 - BIO 02N
16 - BIO 00N
18 - READRN
20 - 0 V
LK2
BIEC 3
GND
BIEC 4
GND
BIEC 1
RTCPZIN
BIEC 2
BIEC 5
BIEC 0
SCEIN



IOM - EXU 6863

MAD 04 - 02	● ●	01 - GND
MAD 03 - 04	● ●	03 - "
MAD 08 - 06	● ●	05 - "
MAD 09 - 08	● ●	07 - "
MAD 10 - 10	● ●	09 - "
MAD 11 - 12	● ●	11 - "
MAD 12 - 14	● ●	13 - "
MAD 13 - 16	● ●	15 - "
MAD 14 - 18	● ●	17 - "
MAD 15 - 20	● ●	19 - "
ACN - 22	● ●	21 - "
GND - 24	● ●	23 - "
" - 26	● ●	25 - "
" - 28	● ●	27 - CLEARN
TPMN - 30	● ●	29 - GND
GND - 32	● ●	31 - "
" - 34	● ●	33 - TMPN
TMEN - 36	● ●	35 - GND
GND - 38	● ●	37 - "
" - 40	● ●	39 - TRMN
IOM Wire Wrap Post - 42	● ●	41 - GND
" " " " - 44	● ●	43 - "
" " " " - 46	● ●	45 - "
" " " " - 48	● ●	47 - "
SPARE - 50	● ●	49 - "

IOB - EXU 6863

RSLN - 02	● ●	01 - GND
PWFN - 04	● ●	03 - "
BIO 15N - 06	● ●	05 - "
BIO 14N - 08	● ●	07 - "
BIO 13N - 10	● ●	09 - "
BIO 12N - 12	● ●	11 - "
BIO 11N - 14	● ●	13 - "
BIO 10N - 16	● ●	15 - "
BIO 09N - 18	● ●	17 - "
BIO 08N - 20	● ●	19 - "
BIO 07N - 22	● ●	21 - "
BIO 06N - 24	● ●	23 - "
BIO 05N - 26	● ●	25 - "
BIO 04N - 28	● ●	27 - "
BIO 03N - 30	● ●	29 - "
BIO 02N - 32	● ●	31 - "
BIO 01N - 34	● ●	33 - "
BIO 00N - 36	● ●	35 - "
BIEC 5 - 38	● ●	37 - "
SCEIN - 40	● ●	39 - "
BIEC 3 - 42	● ●	41 - "
BIEC 4 - 44	● ●	43 - "
BIEC 1 - 46	● ●	45 - "
BIEC 2 - 48	● ●	47 - "
BIEC 0 - 50	● ●	49 - "

P5 - CPU P852

INSTN - 5B37		5A37 - READRN
READMN - 5B36		5A36 - LOADMN
RCP 02N - 5B35		5A35 - RCP 03N
RCP 01N - 5B34		5A34 - READSTN
RUNFA - 5B33		5A33 - LOADRN
CPINT - 5B32		5A32 - RCP 00N
START - 5B31		5A31 - RUNN
IPL - 5B30		5A30 - UNLOCKN
CPMCN - 5B29		5A29 - BIOEKEY
SPARE - 5B28		5A28 - SPARE
" - 5B27		5A27 - "
" - 5B26		5A26 - "
" - 5B25		5A25 - "
" - 5B24		5A24 - "
" - 5B23		5A23 - "
" - 5B22		5A22 - "
" - 5B21		5A21 - "
" - 5B20		5A20 - "
" - 5B19		5A19 - "
" - 5B18		5A18 - "
" - 5B17		5A17 - "
" - 5B16		5A16 - "
" - 5B15		5A15 - "
" - 5B14		5A14 - "
" - 5B13		5A13 - "
" - 5B12		5A12 - "
" - 5B11		5A11 - "
" - 5B10		5A10 - "
" - 5B09		5A09 - "
" - 5B08		5A08 - "
" - 5B07		5A07 - "
" - 5B06		5A06 - "
" - 5B05		5A05 - "
" - 5B04		5A04 - "
" - 5B03		5A03 - "
" - 5B02		5A02 - "
" - 5B01		5A01 - "

P4/P5 - IOP 6827

NOT USED - 5B13		5A13 - NOT USED
" " - 5B12		5A12 - " "
" " - 5B11		5A11 - " "
" " - 5B10		5A10 - " "
" " - 5B09		5A09 - " "
" " - 5B08		5A08 - " "
" " - 5B07		5A07 - " "
" " - 5B06		5A06 - " "
" " - 5B05		5A05 - " "
" " - 5B04		5A04 - " "
" " - 5B03		5A03 - " "
" " - 5B02		5A02 - " "
" " - 5B01		5A01 - " "

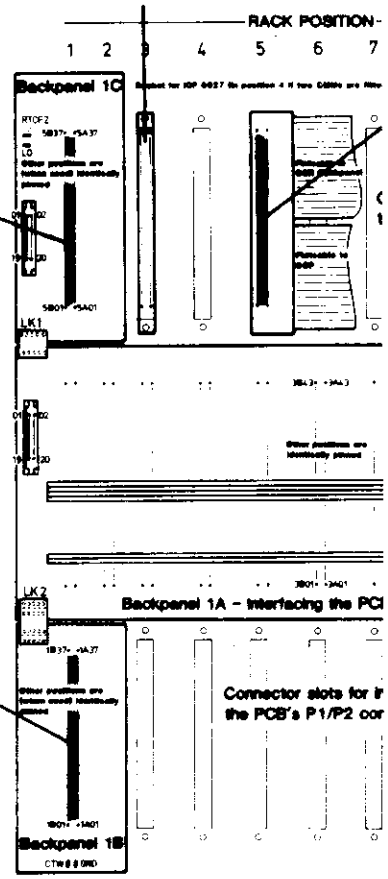
No board connector in this section

BR 00N - 4B13		4A13 - NOT USED
BR 01N - 4B12		4A12 - " "
BR 02N - 4B11		4A11 - " "
BR 03N - 4B10		4A10 - " "
BR 04N - 4B09		4A09 - " "
BR 05N - 4B08		4A08 - " "
BR 06N - 4B07		4A07 - " "
BR 07N - 4B06		4A06 - " "
SPARE - 4B05		4A05 - " "
" - 4B04		4A04 - " "
" - 4B03		4A03 - " "
" - 4B02		4A02 - " "
" - 4B01		4A01 - " "

NOTE: BR 07 - BR 15 on the same pins on a 2nd I

P1 - CPU P852

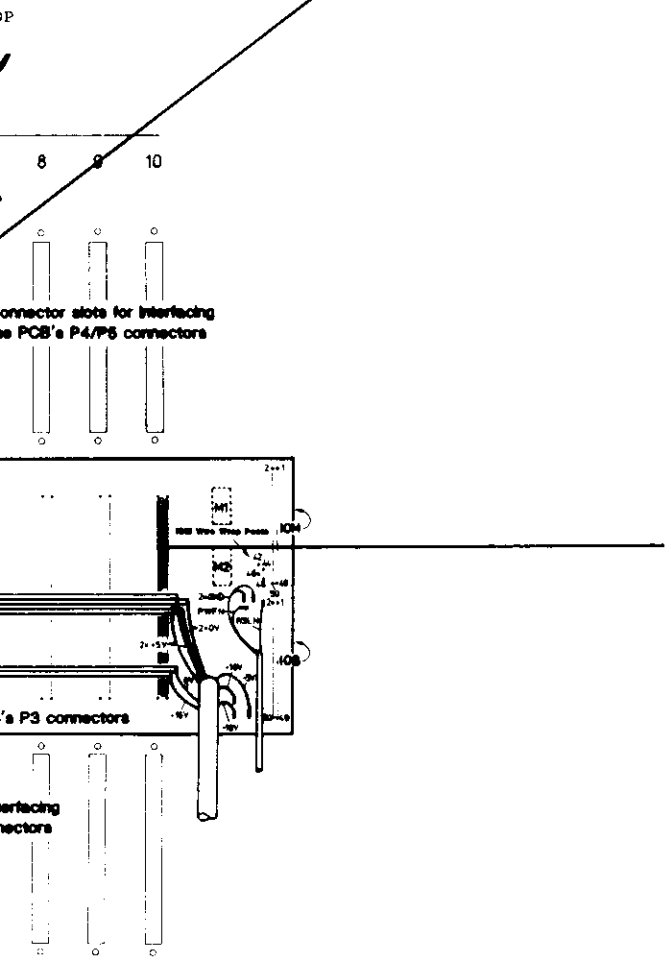
SPARE - 1B37		1A37 - SPARE
" - 1B36		1A36 - "
" - 1B35		1A35 - "
" - 1B34		1A34 - "
" - 1B33		1A33 - "
" - 1B32		1A32 - "
" - 1B31		1A31 - "
" - 1B30		1A30 - "
" - 1B29		1A29 - "
" - 1B28		1A28 - "
" - 1B27		1A27 - "
" - 1B26		1A26 - "
" - 1B25		1A25 - "
" - 1B24		1A24 - "
" - 1B23		1A23 - "
" - 1B22		1A22 - "
" - 1B21		1A21 - "
" - 1B20		1A20 - "
" - 1B19		1A19 - "
" - 1B18		1A18 - "
" - 1B17		1A17 - "
" - 1B16		1A16 - "
" - 1B15		1A15 - "
" - 1B14		1A14 - "
" - 1B13		1A13 - "
" - 1B12		1A12 - INTASRN/IS 07N
IS 00N - 1B11		1A11 - IS 01N/PIFN
IS 07N - 1B10		1A10 - IS 03N
BIEC 0 - 1B09		1A09 - IS 06N/CPFN
BIEC 3 - 1B08		1A08 - BIEC 5
BIEC 1 - 1B07		1A07 - BIEC 2
RTCFZ1N - 1B06		1A06 - BIEC 4
IS 04N - 1B05		1A05 - PFFN/IS 00N
IS 05N - 1B04		1A04 - IS 02N/RTCAN
SCEIN - 1B03		1A03 - CPFN/IS 06N
RTCAN - 1B02		1A02 - PIFN/IS 01N
ASR LINE - 1B01		1A01 - 0 V



Rack Interfaces for Basic Control Units

P5 - CHCR 6833

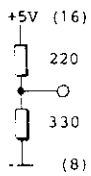
WEN 1N - 5B37	● ●	5A37 - WEN 0N
CIP 0N - 5B36	● ●	5A36 - GND
CIP 1N - 5B35	● ●	5A35 - RDY 0N
RDY 1N - 5B34	● ●	5A34 - GND
ABS 0N - 5B33	● ●	5A33 - "
ABS 1N - 5B32	● ●	5A32 - "
WDAN - 5B31	● ●	5A31 - "
BET 0N - 5B30	● ●	5A30 - "
BET 1N - 5B29	● ●	5A29 - "
RDA 0N - 5B28	● ●	5A28 - "
RDA 1N - 5B27	● ●	5A27 - "
FST - 5B26	● ●	5A26 - LCK 0
GND - 5B25	● ●	5A25 - LCK 1
REV - 5B24	● ●	5A24 - GND
FWD - 5B23	● ●	5A23 - SLT 0
GND - 5B22	● ●	5A22 - SLT 1
RGT - 5B21	● ●	5A21 - GND
RWD - 5B20	● ●	5A20 - "
WCD - 5B19	● ●	5A19 - LED 13N
+5 V - 5B18	● ●	5A18 - +5 V
LED 15N - 5B17	● ●	5A17 - LED 10N
LED 14N - 5B16	● ●	5A16 - SPARE
LED 12N - 5B15	● ●	5A15 - LED 11N
LED 09N - 5B14	● ●	5A14 - SPARE
LED 08N - 5B13	● ●	5A13 - "
LED 07N - 5B12	● ●	5A12 - "
LED 06N - 5B11	● ●	5A11 - LED 05N
DSW 06N - 5B10	● ●	5A10 - SPARE
CHAIN ENDN - 5B09	● ●	5A09 - "
DSW 07N - 5B08	● ●	5A08 - "
DSW 15N - 5B07	● ●	5A07 - CHAIN BEGINN
DSW 14N - 5B06	● ●	5A06 - SPARE
DSW 13N - 5B05	● ●	5A05 - "
SPARE - 5B04	● ●	5A04 - "
DSW 12N - 5B03	● ●	5A03 - "
DSW 11N - 5B02	● ●	5A02 - DSW 10N
DSW 09N - 5B01	● ●	5A01 - DSW 08N

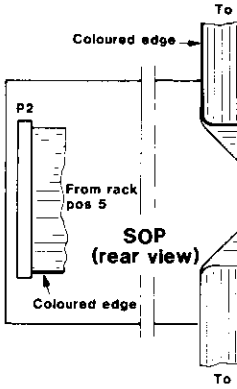


P3 - GENERAL

M1/15 --- MAD 128 - 3B43	● ●	3A43 - BR	
M1/14 --- MAD 64 - 3B42	● ●	3A42 - BR	
M1/13 --- MAD 00 - 3B41	● ●	3A41 - BR	
M1/12 --- MAD 01 - 3B40	● ●	3A40 - GND	
M1/11 --- MAD 02 - 3B39	● ●	3A39 - CLEARN	
MAD 03 - 3B38	● ●	3A38 - BSYN -----	M1/10
MAD 04 - 3B37	● ●	3A37 - MSN ------	M1/9
M1/5 ---- MAD 05 - 3B36	● ●	3A36 - BUSRN ----	M1/7
M1/4 ---- MAD 06 - 3B35	● ●	3A35 - SPYC -----	M1/6
M1/3 ---- MAD 07 - 3B34	● ●	3A34 - ACN	
MAD 08 - 3B33	● ●	3A33 - GND	
MAD 09 - 3B32	● ●	3A32 - TPMN	
MAD 10 - 3B31	● ●	3A31 - TMPN	
MAD 11 - 3B30	● ●	3A30 - TMEN	
MAD 12 - 3B29	● ●	3A29 - TMRN -----	M2/15
MAD 13 - 3B28	● ●	3A28 - TRMN	
MAD 14 - 3B27	● ●	3A27 - CHA ------	M2/13
MAD 15 - 3B26	● ●	3A26 - WRITE ----	M2/12
+16 V - 3B25	● ●	3A25 - GND	
GND - 3B24	● ●	3A24 - GND	
+5 V - 3B23	● ●	3A23 - BR	
0 V - 3B22	● ●	3A22 - 0 V	
0 V - 3B21	● ●	3A21 - 0 V	
+5 V - 3B20	● ●	3A20 - +5 V	
+5 V - 3B19	● ●	3A19 - +5 V	
-5 V - 3B18	● ●	3A18 - 0 V	
RSLN - 3B17	● ●	3A17 - PWFN	
OKI - 3B16	● ●	3A16 - OKO	
BIO 15N - 3B15	● ●	3A15 - BIO 14N	
BIO 13N - 3B14	● ●	3A14 - BIO 12N	
BIO 11N - 3B13	● ●	3A13 - BIO 10N	
BIO 09N - 3B12	● ●	3A12 - BIO 08N	
BIO 07N - 3B11	● ●	3A11 - BIO 06N	
BIO 05N - 3B10	● ●	3A10 - BIO 04N	
BIO 03N - 3B09	● ●	3A09 - BIO 02N	
BIO 01N - 3B08	● ●	3A08 - BIO 00N	
0 V - 3B07	● ●	3A07 - 0 V	
+16 V - 3B06	● ●	3A06 - +16 V	
BIEC 5 - 3B05	● ●	3A05 - SCEIN	
BIEC 3 - 3B04	● ●	3A04 - BIEC 4	
BIEC 1 - 3B03	● ●	3A03 - BIEC 2	
Chassis GND - 3B02	● ●	3A02 - BIEC 0	
-18 V - 3B01	● ●	3A01 - +18 V	

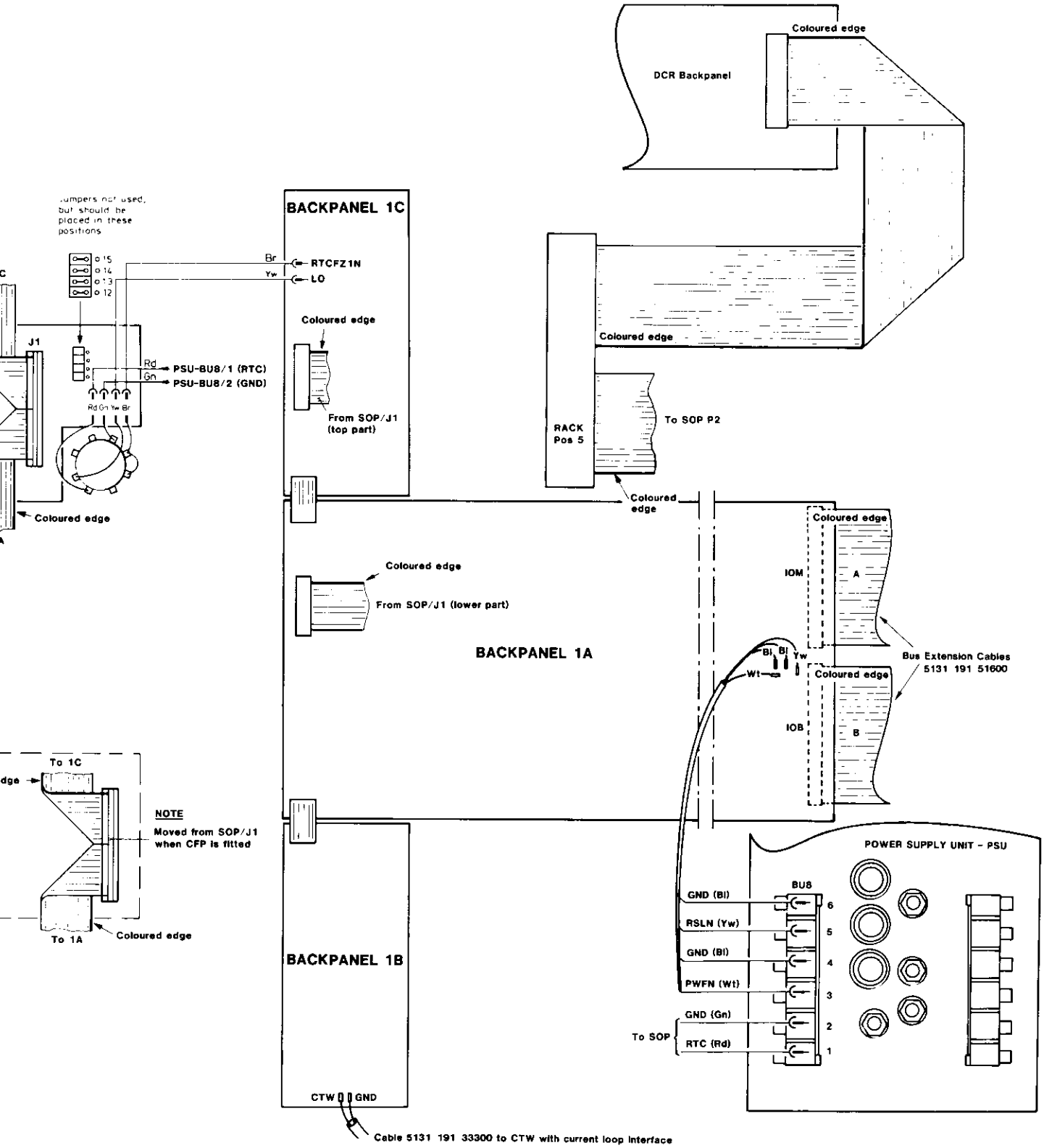
M1/M2 Ternets

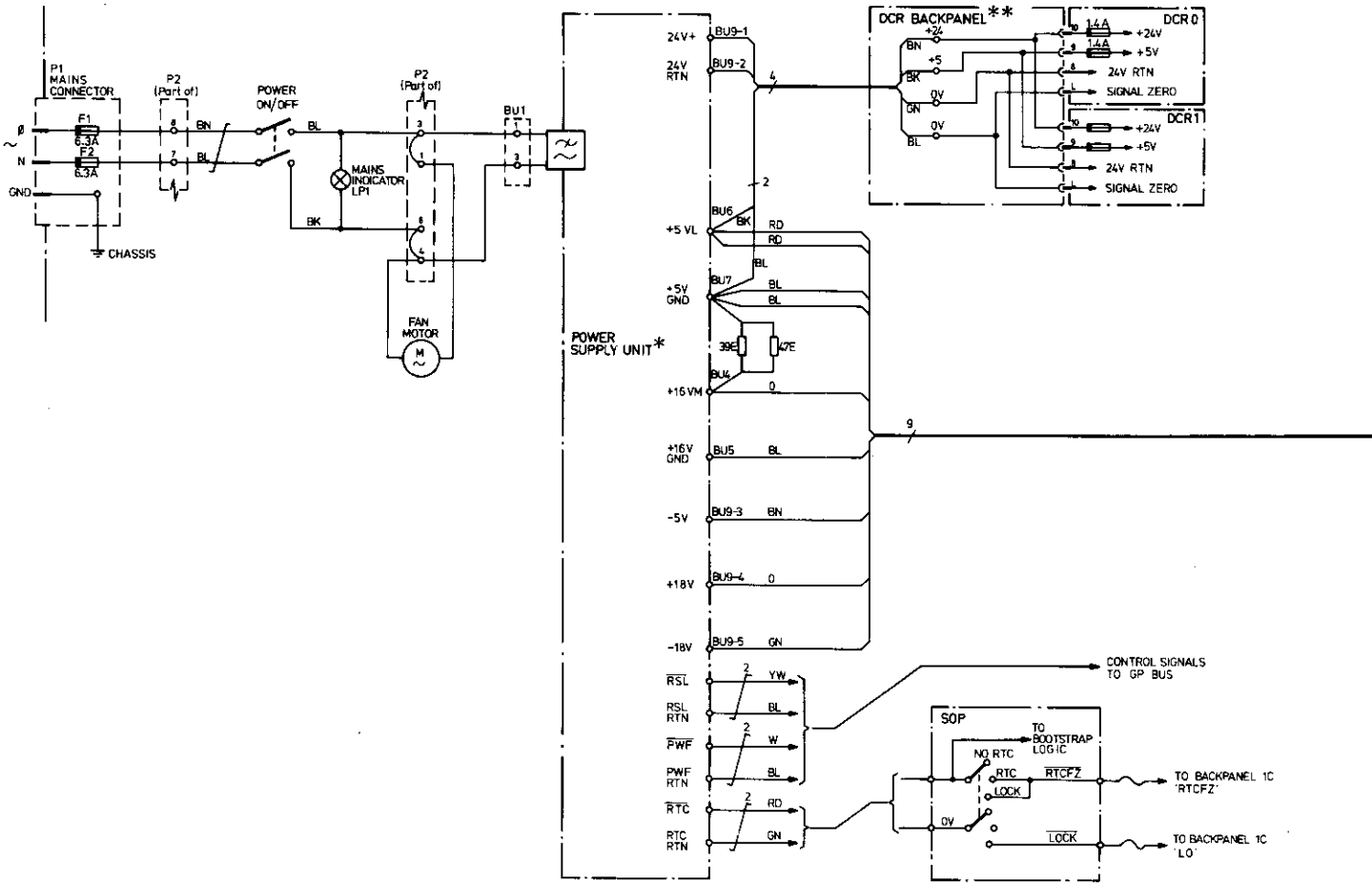



To
Coloured edge
P2
From rack
pos 5
SOP
(rear view)
Coloured edge
To


Coloured
CFP (rear view)

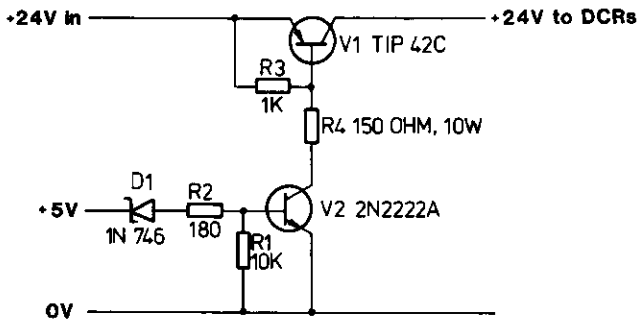
Module Interconnections



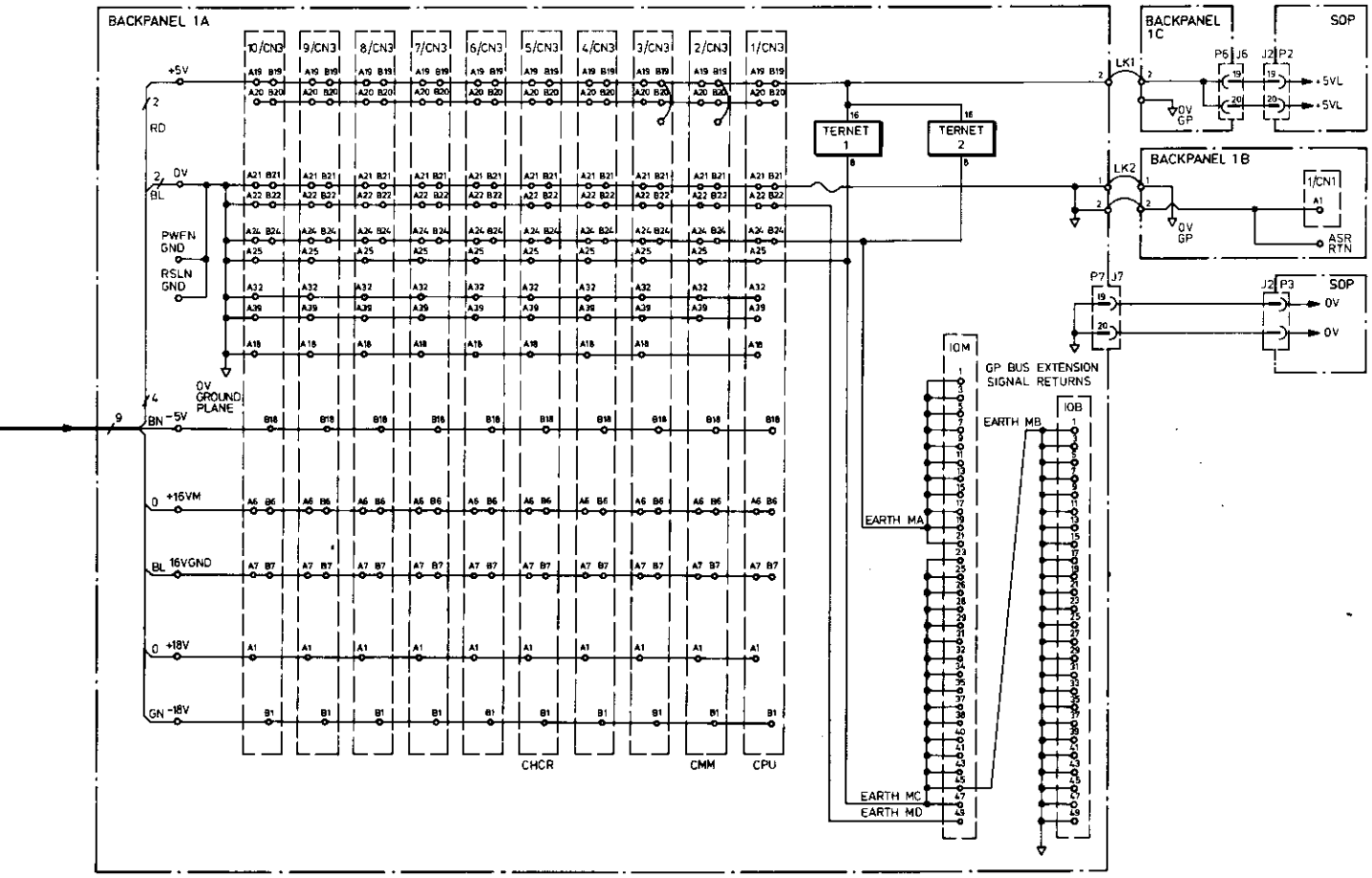


*Type PE 1440 or PE 1709/01, 02

**Backpanels for DCR 6865 are equipped with the following control circuit for 24V

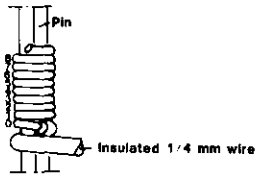


D1 = ZENER

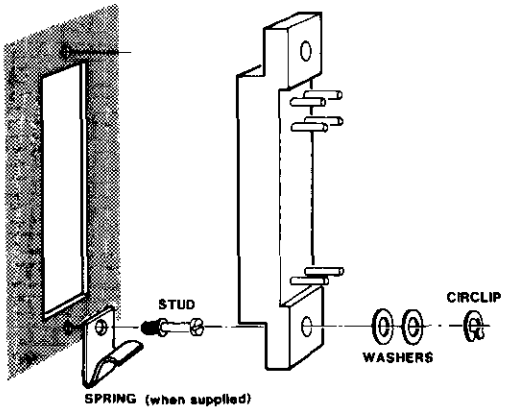

BACKPANEL 1A
10/CN3
9/CN3
8/CN3
7/CN3
6/CN3
5/CN3
4/CN3
3/CN3
2/CN3
1/CN3
+5V
RD
0V
BL
PWFN GND
RSLN GND
0V GROUND PLANE
BN -5V
0 +16VM
BL 16VGND
0 +18V
GN -18V
CHCR
CMM
CPU
TERNET 1
TERNET 2
BACKPANEL 1C
LK1
P5 J6
J2 P2
+5VL
+5VL
0V GP
BACKPANEL 1B
LK2
1/CN1
A1
ASR RTN
P7 J7
J2 P3
SOP
0V
0V
10M
GP BUS EXTENSION SIGNAL RETURNS
EARTH MB
10B
EARTH MA
EARTH MC
EARTH MD

INSTALLING RACK BACKPANEL OPTIONS

Additional wire wrap connections

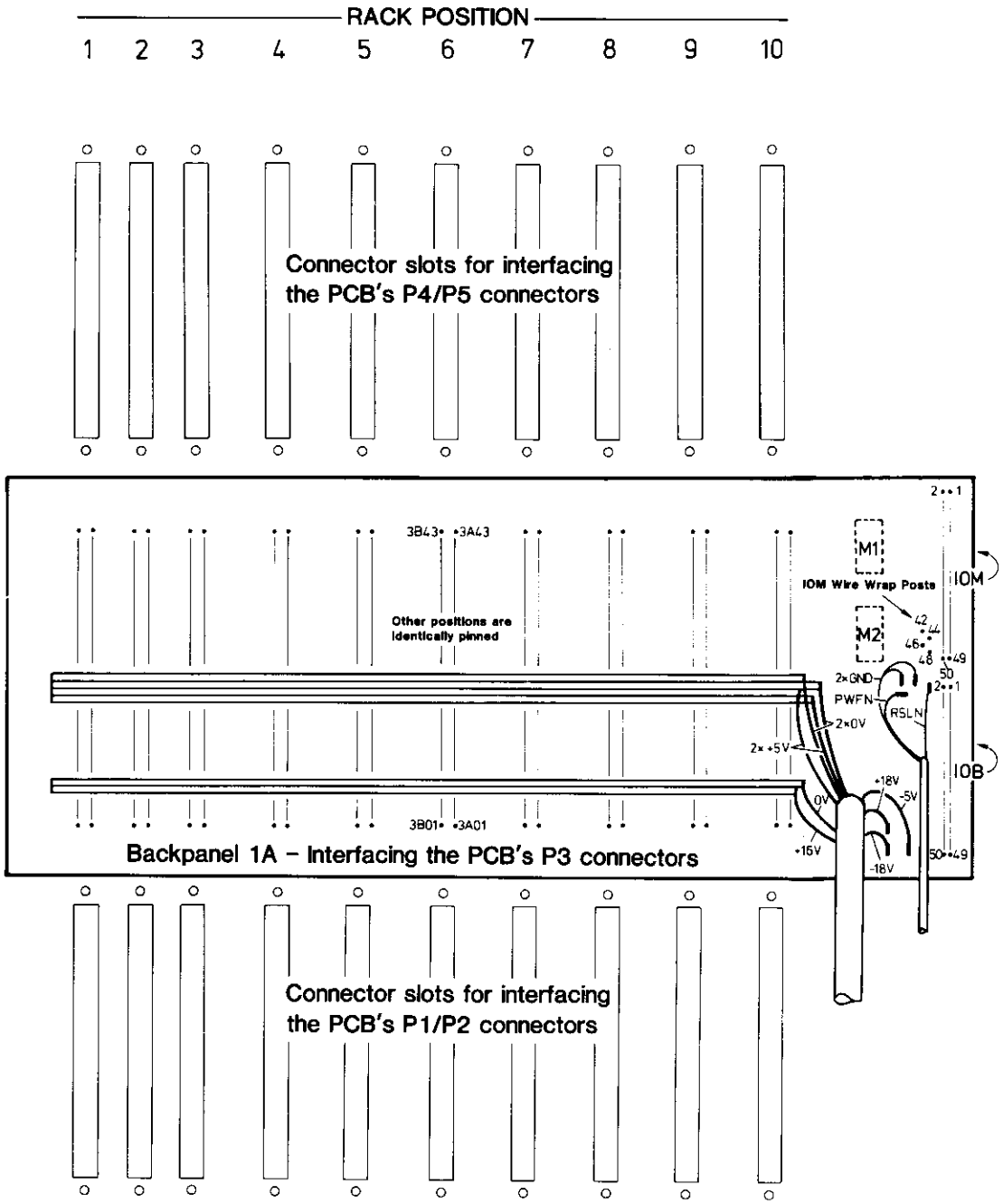


Socket for P1/P2 or P4/P5 connectors

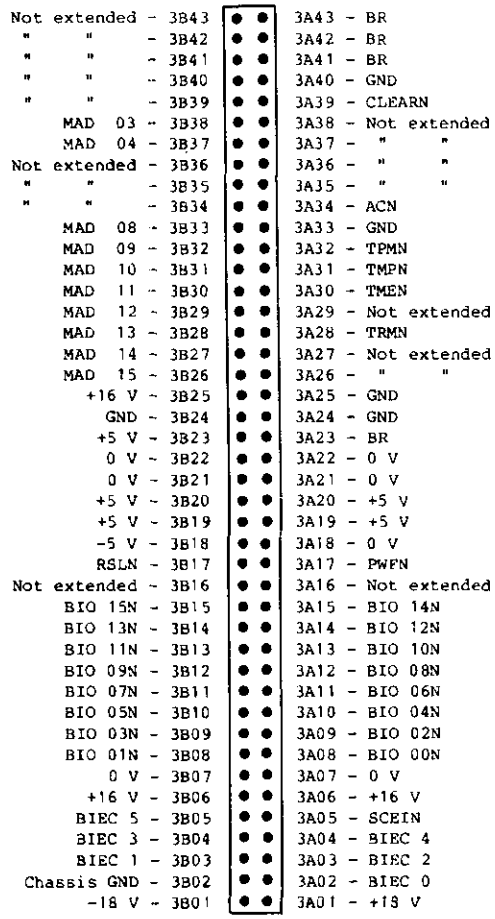


EXU 6863

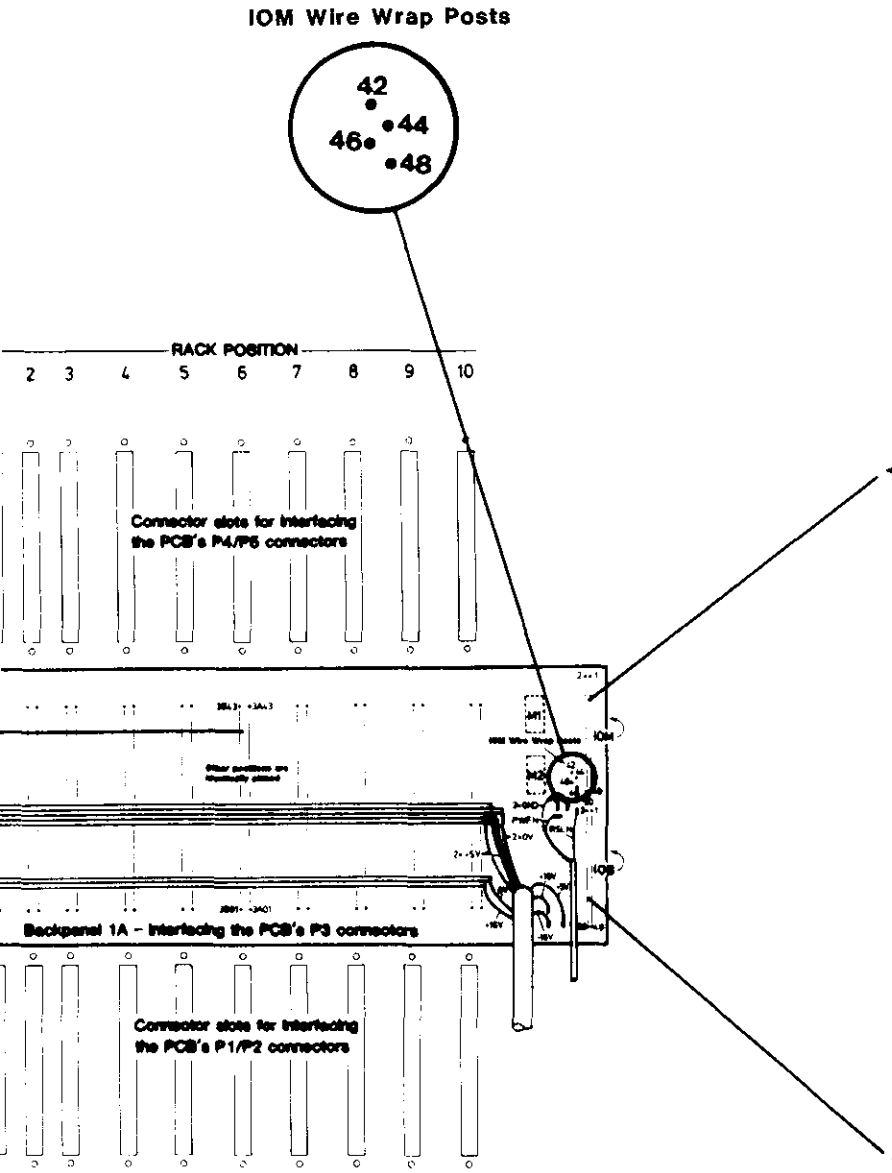
Rack Backpanel



P3 - GENERAL



NOTE: All extended bus signals are terminated on the Termination Board in rack position 1/2.

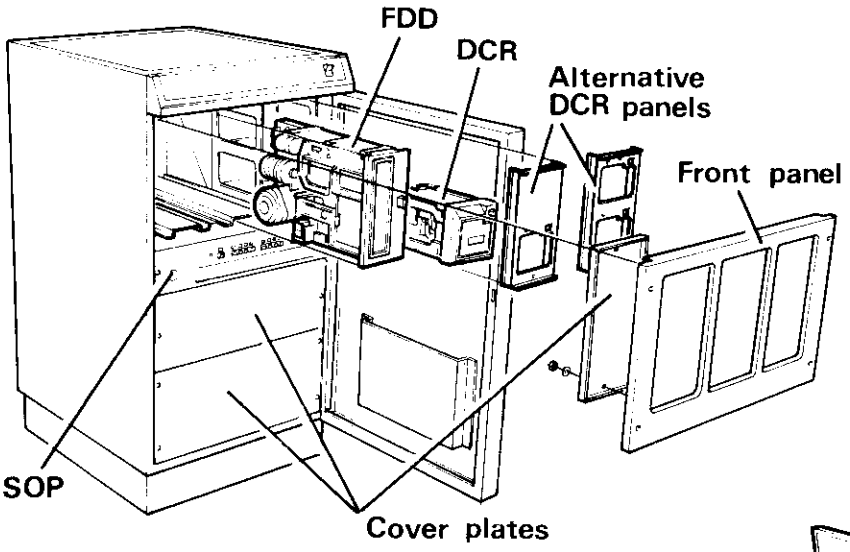


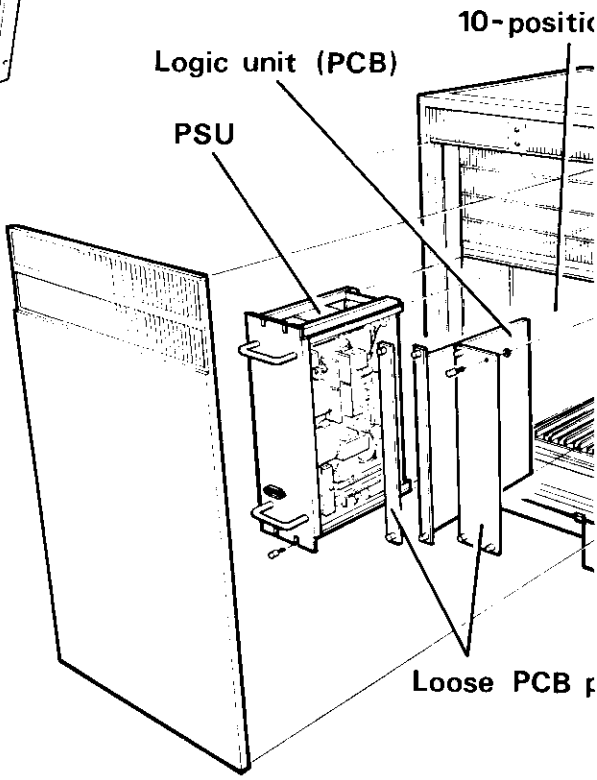
IOM - TC 6810/11

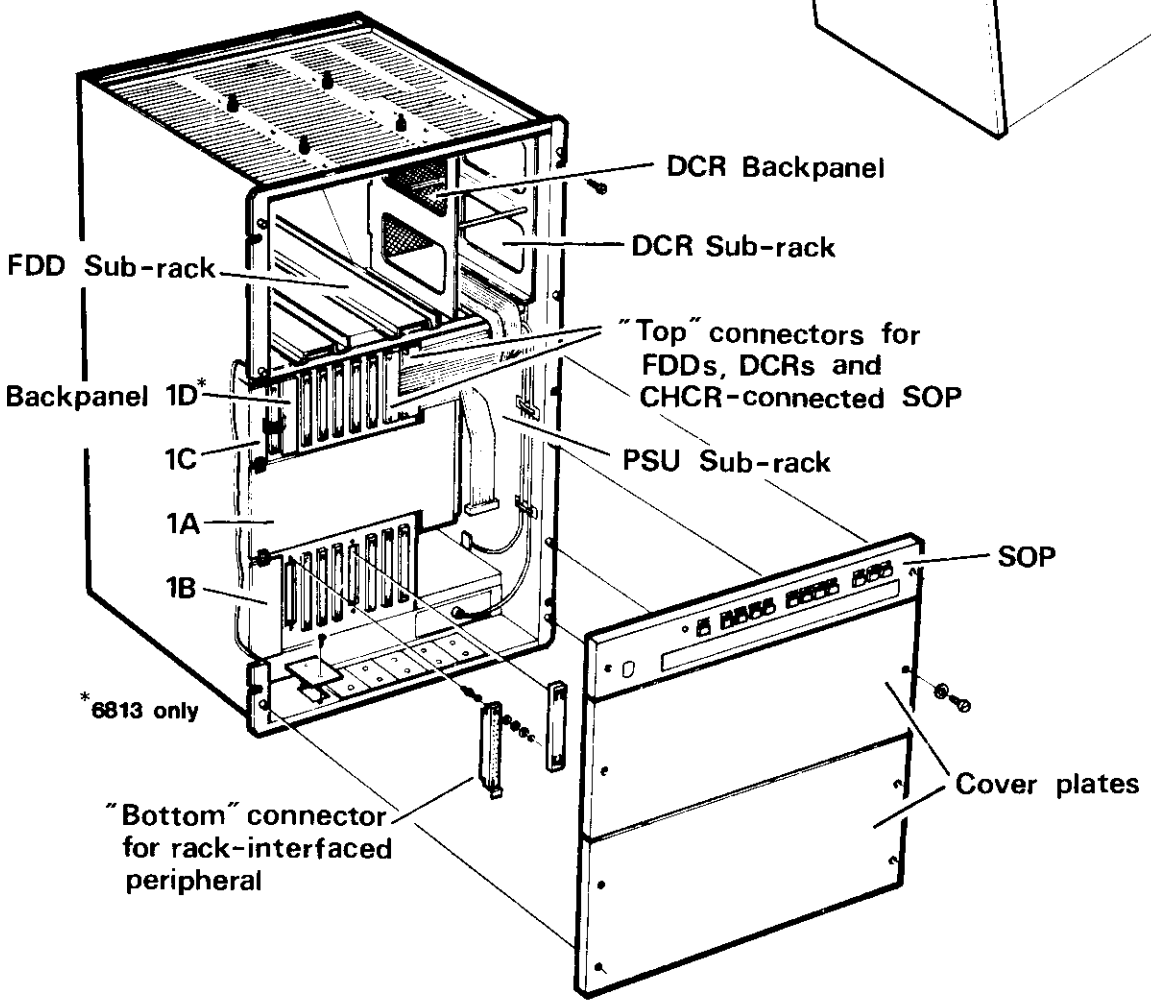
MAD 04 - 02	● ●	01 - GND
MAD 03 - 04	● ●	03 - "
MAD 08 - 06	● ●	05 - "
MAD 09 - 08	● ●	07 - "
MAD 10 - 10	● ●	09 - "
MAD 11 - 12	● ●	11 - "
MAD 12 - 14	● ●	13 - "
MAD 13 - 16	● ●	15 - "
MAD 14 - 18	● ●	17 - "
MAD 15 - 20	● ●	19 - "
ACN - 22	● ●	21 - "
GND - 24	● ●	23 - "
" - 26	● ●	25 - "
" - 28	● ●	27 - CLEARN
TPMN - 30	● ●	29 - GND
GND - 32	● ●	31 - "
" - 34	● ●	33 - TMPN
TMEN - 36	● ●	35 - GND
GND - 38	● ●	37 - "
" - 40	● ●	39 - TRMN
IOM Wire Wrap Post - 42	● ●	41 - GND
" " " " - 44	● ●	43 - "
" " " " - 46	● ●	45 - "
" " " " - 48	● ●	47 - "
SPARE - 50	● ●	49 - "

IOB - TC 6810/11

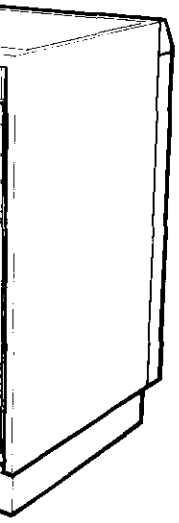
RSLN - 02	● ●	01 - GND
PWFN - 04	● ●	03 - "
BIO 15N - 06	● ●	05 - "
BIO 14N - 08	● ●	07 - "
BIO 13N - 10	● ●	09 - "
BIO 12N - 12	● ●	11 - "
BIO 11N - 14	● ●	13 - "
BIO 10N - 16	● ●	15 - "
BIO 09N - 18	● ●	17 - "
BIO 08N - 20	● ●	19 - "
BIO 07N - 22	● ●	21 - "
BIO 06N - 24	● ●	23 - "
BIO 05N - 26	● ●	25 - "
BIO 04N - 28	● ●	27 - "
BIO 03N - 30	● ●	29 - "
BIO 02N - 32	● ●	31 - "
BIO 01N - 34	● ●	33 - "
BIO 00N - 36	● ●	35 - "
BIEC 5 - 38	● ●	37 - "
SCEIN - 40	● ●	39 - "
BIEC 3 - 42	● ●	41 - "
BIEC 4 - 44	● ●	43 - "
BIEC 1 - 46	● ●	45 - "
BIEC 2 - 48	● ●	47 - "
BIEC 0 - 50	● ●	49 - "


FDD
DCR
Alternative
DCR panels
Front panel
SOP
Cover plates


10-positio
Logic unit (PCB)
PSU
Loose PCB p

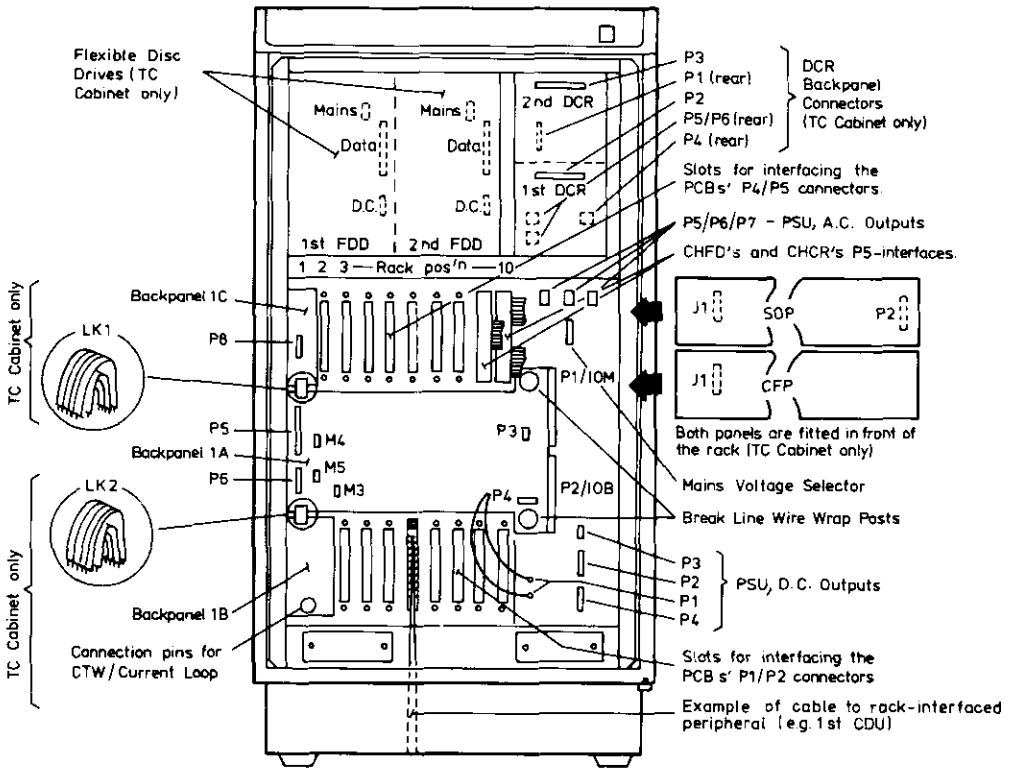

DCR Backpanel
DCR Sub-rack
FDD Sub-rack
"Top" connectors for
FDDs, DCRs and
CHCR-connected SOP
Backpanel 1D*
1C
PSU Sub-rack
1A
SOP
1B
*6813 only
Cover plates
"Bottom" connector
for rack-interfaced
peripheral

n Rack

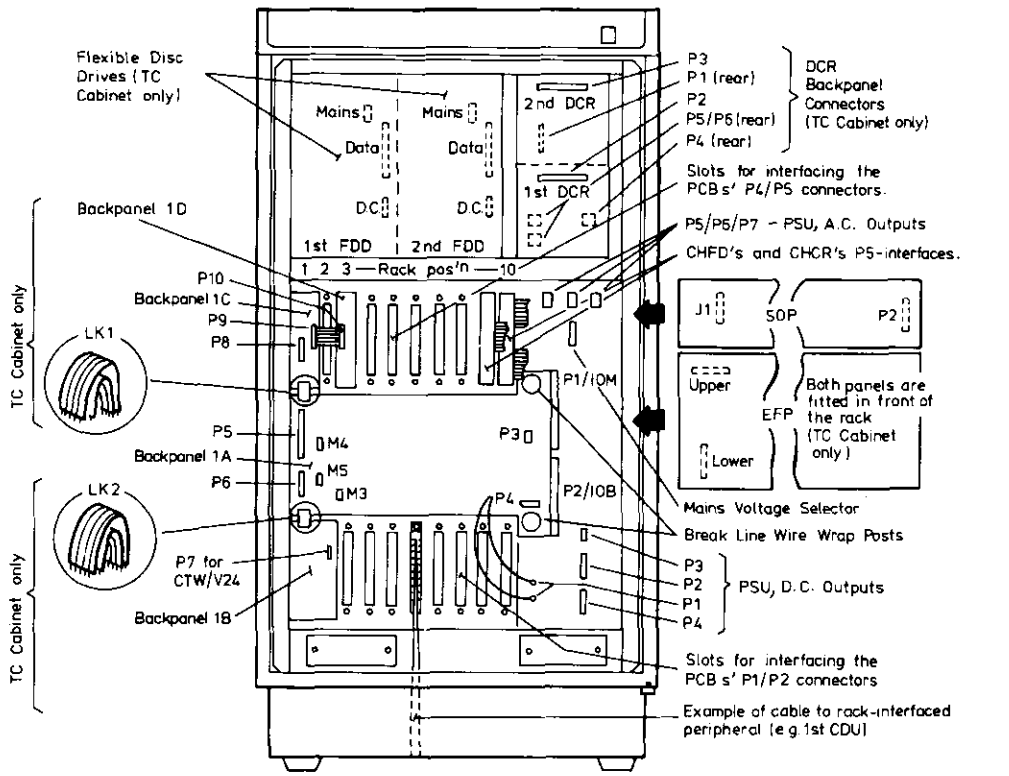


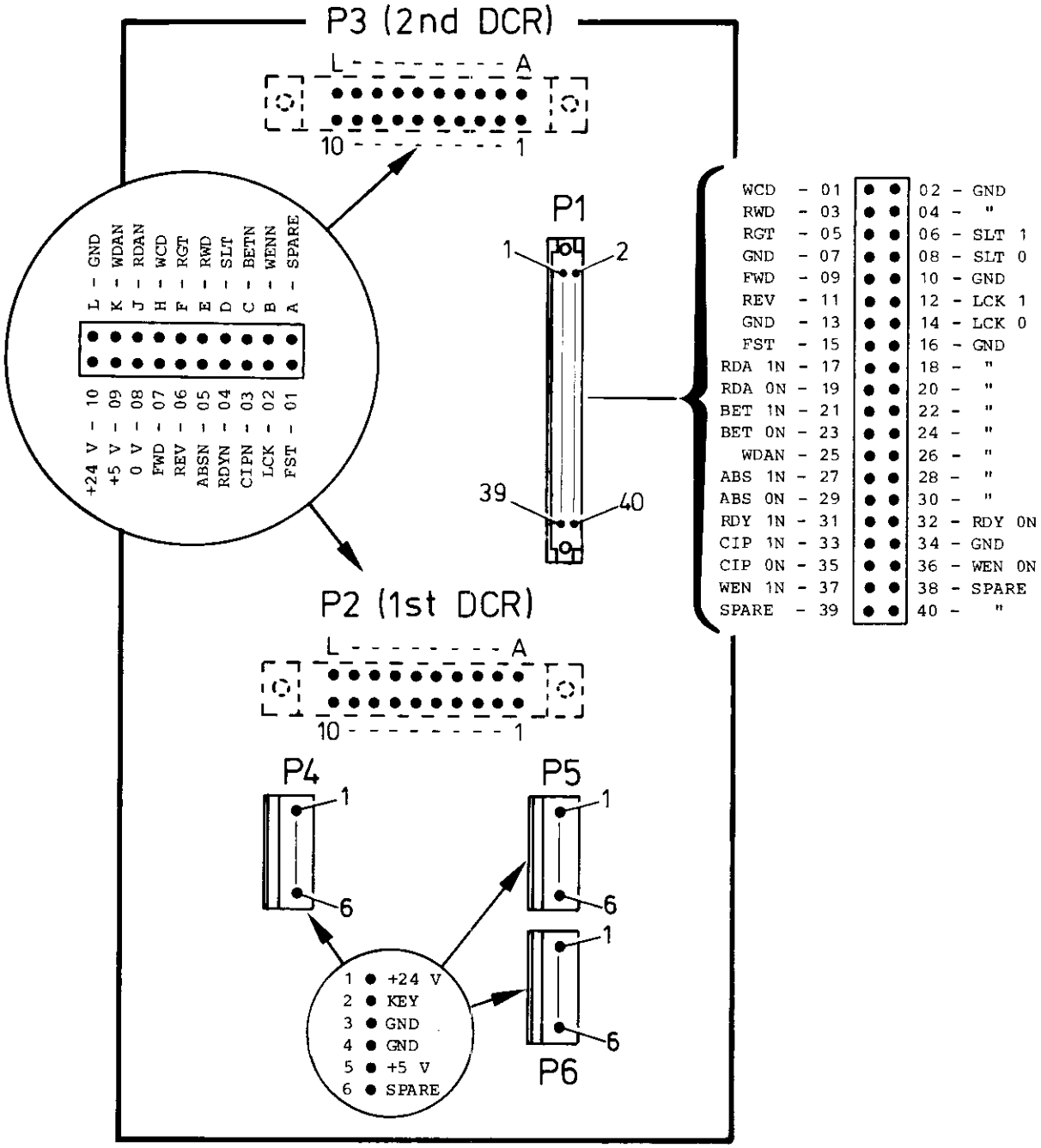
anels

TC 6812 & EXU 6864

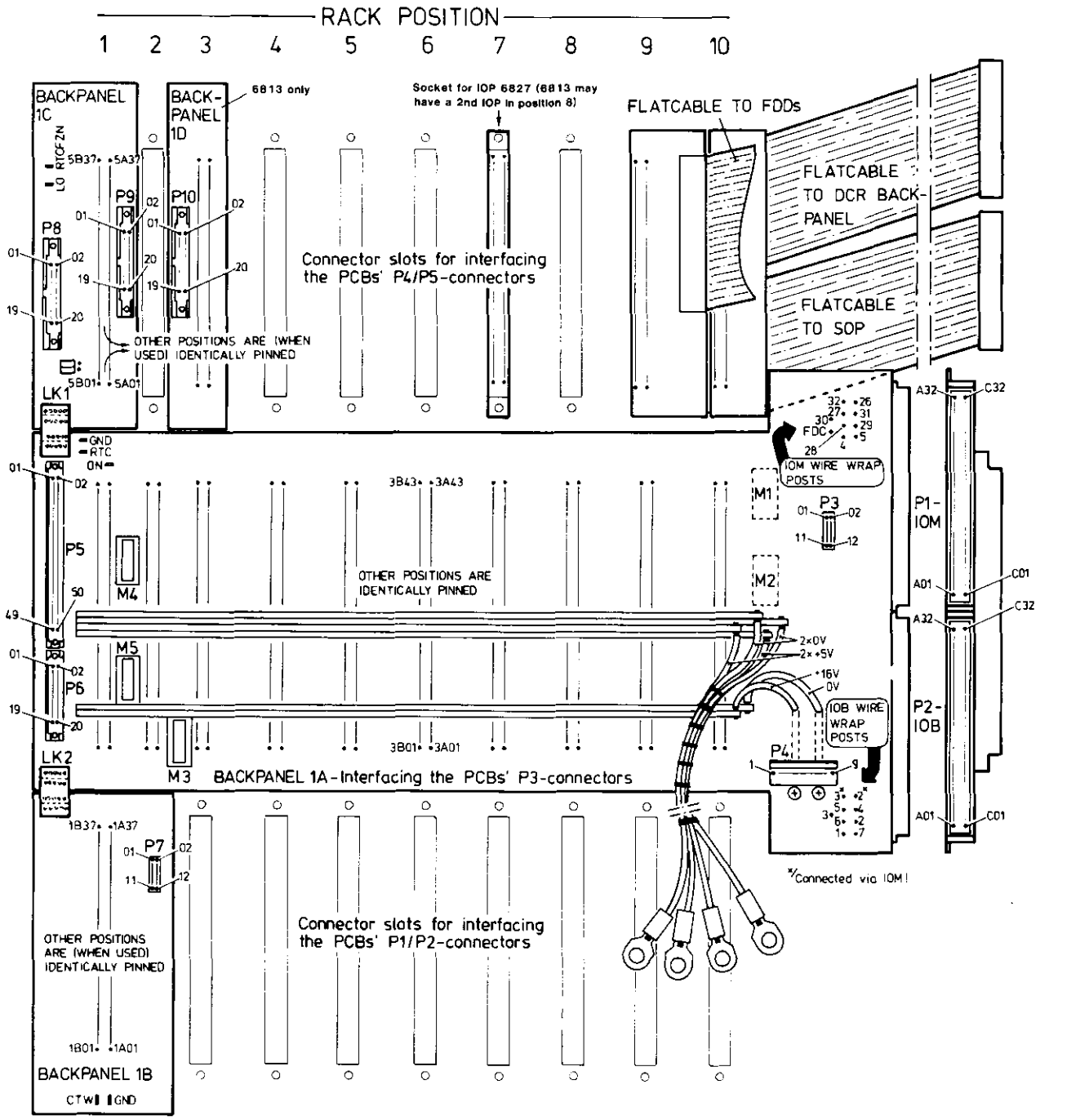


TC 6813 & EXU 6864



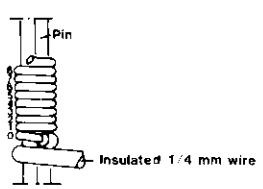


The control circuit for 24V (fitted on the panel) is shown on the sheet Power Distribution

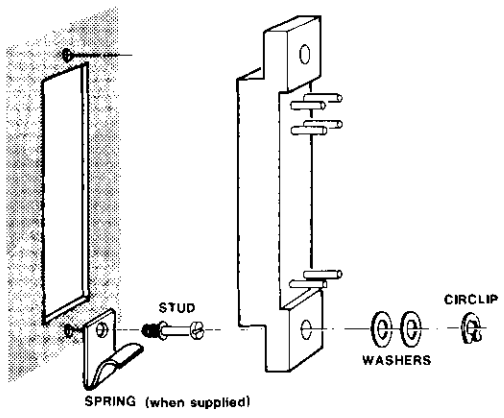


INSTALLING RACK BACKPANEL OPTIONS

Additional wire wrap connections



Socket for P1/P2 or P4/P5 connectors



P5 - CPU P852/57

INSTN - 5B37		5A37 - READRN
READMN - 5B36		5A36 - LOADMN
RCP 02N - 5B35		5A35 - RCP 03N
RCP 01N - 5B34		5A34 - READSTN
RUNFA - 5B33		5A33 - LOADRN
CPINT - 5B32		5A32 - RCP 00N
START - 5B31		5A31 - RUNN
IPL - 5B30		5A30 - UNLOCKN
CPMCN - 5B29		5A29 - BIOEKEY
+5 V - 5B28		5A28 - +5 V
0 V - 5B27		5A27 - 0 V
SPARE - 5B26		5A26 - SPARE
TMMU - 5B25		5A25 - SP 02
TMMM - 5B24		5A24 - S 03
S 02 - 5B23		5A23 - S 01
S 00 - 5B22		5A22 - FU
SPARE - 5B21		5A21 - BOMFN
MFAULTN - 5B20		5A20 - DONEMN
SPARE - 5B19		5A19 - MMUABS
" - 5B18		5A18 - SPARE
MOSCFLO - 5B17		5A17 - OSCFLO
SPARE - 5B16		5A16 - SPARE
FPPABS - 5B15		5A15 - FLOCR1
PLOCR0 - 5B14		5A14 - DONEFN
BOFFN - 5B13		5A13 - GFETCH
TMFN - 5B12		5A12 - BSYCPUAN
SP 01 - 5B11		5A11 - FLOACTN
SP 04 - 5B10		5A10 - SP 03
SPARE - 5B09		5A09 - SPARE
" - 5B08		5A08 - "
" - 5B07		5A07 - "
" - 5B06		5A06 - "
TESTN - 5B05		5A05 - "
CPBABS - 5B04		5A04 - "
PREQN - 5B03		5A03 - "
GBCPFN - 5B02		5A02 - "
SP 05 - 5B01		5A01 - "

5A/5B01-5A/5B28 applicable only for PTS 6813.

P5 - MMU 6828 (6813 only)

SPARE - 5B37		5A37 - SPARE
" - 5B36		5A36 - "
" - 5B35		5A35 - "
" - 5B34		5A34 - "
" - 5B33		5A33 - "
" - 5B32		5A32 - "
" - 5B31		5A31 - "
" - 5B30		5A30 - "
" - 5B29		5A29 - "
" - 5B28		5A28 - "
" - 5B27		5A27 - "
" - 5B26		5A26 - "
TMMU - 5B25		5A25 - "
TMMN - 5B24		5A24 - S 03
S 02 - 5B23		5A23 - S 01
S 00 - 5B22		5A22 - FU
SPARE - 5B21		5A21 - BOMFN
MFAULTN - 5B20		5A20 - DONEMN
SPARE - 5B19		5A19 - MMUABS
" - 5B18		5A18 - SPARE
GND - 5B17		5A17 - OSCFLO
SPARE - 5B16		5A16 - SPARE
" - 5B15		5A15 - "
" - 5B14		5A14 - "
" - 5B13		5A13 - GFETCH
" - 5B12		5A12 - BSYCPUAN
" - 5B11		5A11 - SPARE
" - 5B10		5A10 - "
" - 5B09		5A09 - "
" - 5B08		5A08 - "
" - 5B07		5A07 - "
" - 5B06		5A06 - "
" - 5B05		5A05 - "
" - 5B04		5A04 - "
" - 5B03		5A03 - "
" - 5B02		5A02 - "
" - 5B01		5A01 - "

P4/P5 -

NOT USED - 5B13		
" " - 5B12		
" " - 5B11		
" " - 5B10		
" " - 5B09		
" " - 5B08		
" " - 5B07		
" " - 5B06		
" " - 5B05		
" " - 5B04		
" " - 5B03		
" " - 5B02		
" " - 5B01		

No board conne

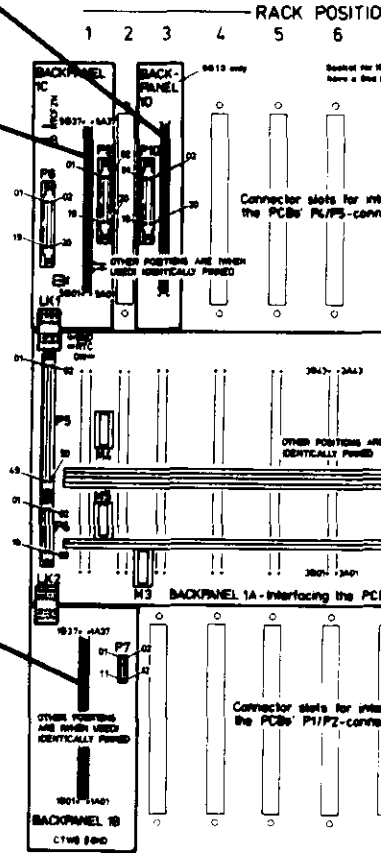
BR 00N - 4B13		
BR 01N - 4B12		
BR 02N - 4B11		
BR 03N - 4B10		
BR 04N - 4B09		
BR 05N - 4B08		
BR 06N - 4B07		
BR 07N - 4B06		
SPARE - 4B05		
" - 4B04		
" - 4B03		
" - 4B02		
" - 4B01		

NOTE: BR 07 - BR 15 on

P1 - CPU P852/57

GND - 1B37		1A37 - CT 133
" - 1B36		1A36 - CT 109
" - 1B35		1A35 - CT 107
" - 1B34		1A34 - CT 108
" - 1B33		1A33 - CT 106
" - 1B32		1A32 - CT 103
" - 1B31		1A31 - CT 104
SPARE - 1B30		1A30 - GND
" - 1B29		1A29 - SPARE
" - 1B28		1A28 - "
" - 1B27		1A27 - "
" - 1B26		1A26 - "
" - 1B25		1A25 - "
" - 1B24		1A24 - "
" - 1B23		1A23 - "
" - 1B22		1A22 - "
" - 1B21		1A21 - "
" - 1B20		1A20 - "
" - 1B19		1A19 - "
" - 1B18		1A18 - "
" - 1B17		1A17 - "
" - 1B16		1A16 - "
" - 1B15		1A15 - "
" - 1B14		1A14 - "
" - 1B13		1A13 - "
" - 1B12		1A12 - INTASRN/IS 07N
ISOON/PFFN - 1B11		1A11 - IS 01N/PIFN
IS07N/INTASR- 1B10		1A10 - IS 03N
BIEC 0 - 1B09		1A09 - IS 06N/CPFN
BIEC 3 - 1B08		1A08 - BIEC 5
BIEC 1 - 1B07		1A07 - BIEC 2
RTCFZIN - 1B06		1A06 - BIEC 4
IS 04N - 1B05		1A05 - PFFN/IS 00N
IS 05N - 1B04		1A04 - IS 02N/RTCAN
SCEIN - 1B03		1A03 - CPFN/IS 06N
RTCAN/ISO2.: - 1B02		1A02 - PIFN/IS 01N
ASR LINE - 1B01		1A01 - 0 V

PTS 6813 only



Rack Interfaces for Basic Control Units

IOP 6827

5A13	- NOT USED	
5A12	- "	"
5A11	- "	"
5A10	- "	"
5A09	- "	"
5A08	- "	"
5A07	- "	"
5A06	- "	"
5A05	- "	"
5A04	- "	"
5A03	- "	"
5A02	- "	"
5A01	- "	"

or in this section

4A13	- NOT USED	
4A12	- "	"
4A11	- "	"
4A10	- "	"
4A09	- "	"
4A08	- "	"
4A07	- "	"
4A06	- "	"
4A05	- "	"
4A04	- "	"
4A03	- "	"
4A02	- "	"
4A01	- "	"

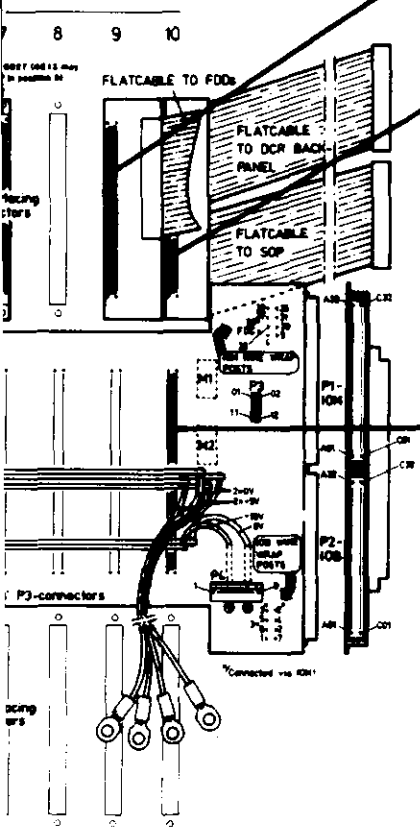
he same pins on a 2nd IOP

P5 - CHFD 6848*

SPARE	- 5B37	5A37 - RDLN
"	- 5B36	5A36 - HEADLN
"	- 5B35	5A35 - TRON
"	- 5B34	5A34 - INDN
"	- 5B33	5A33 - LWCN
"	- 5B32	5A32 - STEPN
"	- 5B31	5A31 - DIRN
"	- 5B30	5A30 - WEN
"	- 5B29	5A29 - WDLN
"	- 5B28	5A28 - SEL 0N
"	- 5B27	5A27 - SEL 1N
"	- 5B26	5A26 - SEL 2N
"	- 5B25	5A25 - SEL 3N
"	- 5B24	5A24 - SPARE
"	- 5B23	5A23 - "
"	- 5B22	5A22 - "
"	- 5B21	5A21 - "
"	- 5B20	5A20 - "
"	- 5B19	5A19 - "
"	- 5B18	5A18 - "
"	- 5B17	5A17 - "
"	- 5B16	5A16 - "
"	- 5B15	5A15 - "
"	- 5B14	5A14 - "
"	- 5B13	5A13 - "
"	- 5B12	5A12 - RDY 0N
"	- 5B11	5A11 - RDY 1N
"	- 5B10	5A10 - RDY 2N
"	- 5B09	5A09 - RDY 3N
"	- 5B08	5A08 - WRPN
"	- 5B07	5A07 - SPARE
"	- 5B06	5A06 - UNLOCK 0N
"	- 5B05	5A05 - UNLOCK 1N
"	- 5B04	5A04 - SPARE
"	- 5B03	5A03 - "
"	- 5B02	5A02 - UNLOCK 2N
"	- 5B01	5A01 - UNLOCK 3N

P5 - CHCR 6833

WEN 1N	- 5B37	5A37 - WEN 0N
CIP 0N	- 5B36	5A36 - GND
CIP 1N	- 5B35	5A35 - RDY 0N
RDY 1N	- 5B34	5A34 - GND
ABS 0N	- 5B33	5A33 - "
ABS 1N	- 5B32	5A32 - "
WDAN	- 5B31	5A31 - "
BET 0N	- 5B30	5A30 - "
BET 1N	- 5B29	5A29 - "
RDA 0N	- 5B28	5A28 - "
RDA 1N	- 5B27	5A27 - "
FST	- 5B26	5A26 - LCK 0
GND	- 5B25	5A25 - LCK 1
REV	- 5B24	5A24 - GND
FWD	- 5B23	5A23 - SLT 0
GND	- 5B22	5A22 - SLT 1
RGT	- 5B21	5A21 - GND
RWD	- 5B20	5A20 - "
WCD	- 5B19	5A19 - LED 13N
+5 V	- 5B18	5A18 - +5 V
LED 15N	- 5B17	5A17 - LED 10N
LED 14N	- 5B16	5A16 - SPARE
LED 12N	- 5B15	5A15 - LED 11N
LED 09N	- 5B14	5A14 - SPARE
LED 08N	- 5B13	5A13 - "
LED 07N	- 5B12	5A12 - "
LED 06N	- 5B11	5A11 - LED 05N
DSW 06N	- 5B10	5A10 - SPARE
CHAIN ENDN	- 5B09	5A09 - "
DSW 07N	- 5B08	5A08 - "
DSW 15N	- 5B07	5A07 - CHAIN BEGINN
DSW 14N	- 5B06	5A06 - SPARE
DSW 13N	- 5B05	5A05 - "
SPARE	- 5B04	5A04 - "
DSW 12N	- 5B03	5A03 - "
DSW 11N	- 5B02	5A02 - DSW 10N
DSW 09N	- 5B01	5A01 - DSW 08N

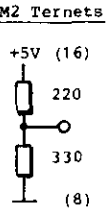


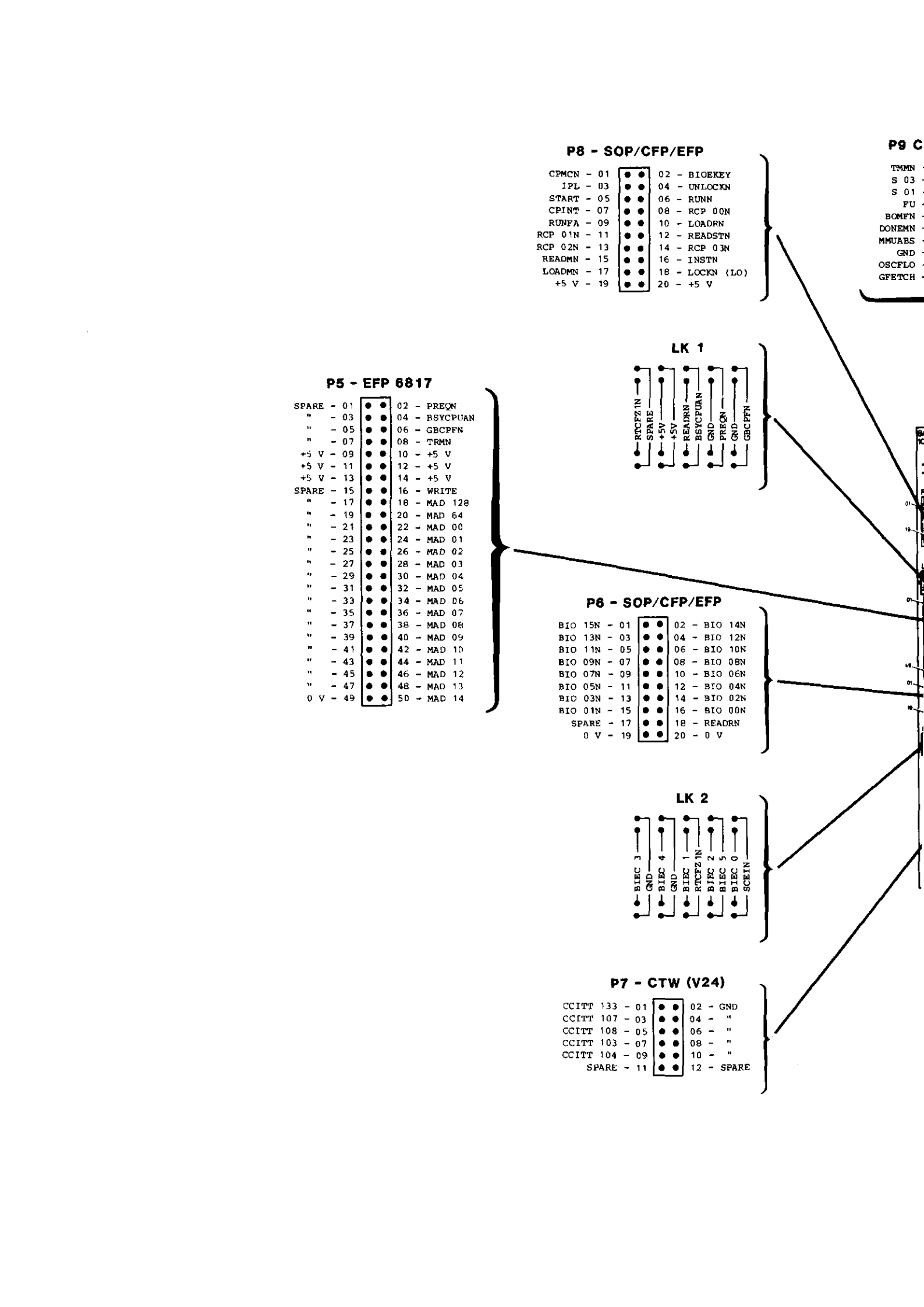
*For CHFD 6849, see TC 6814/24

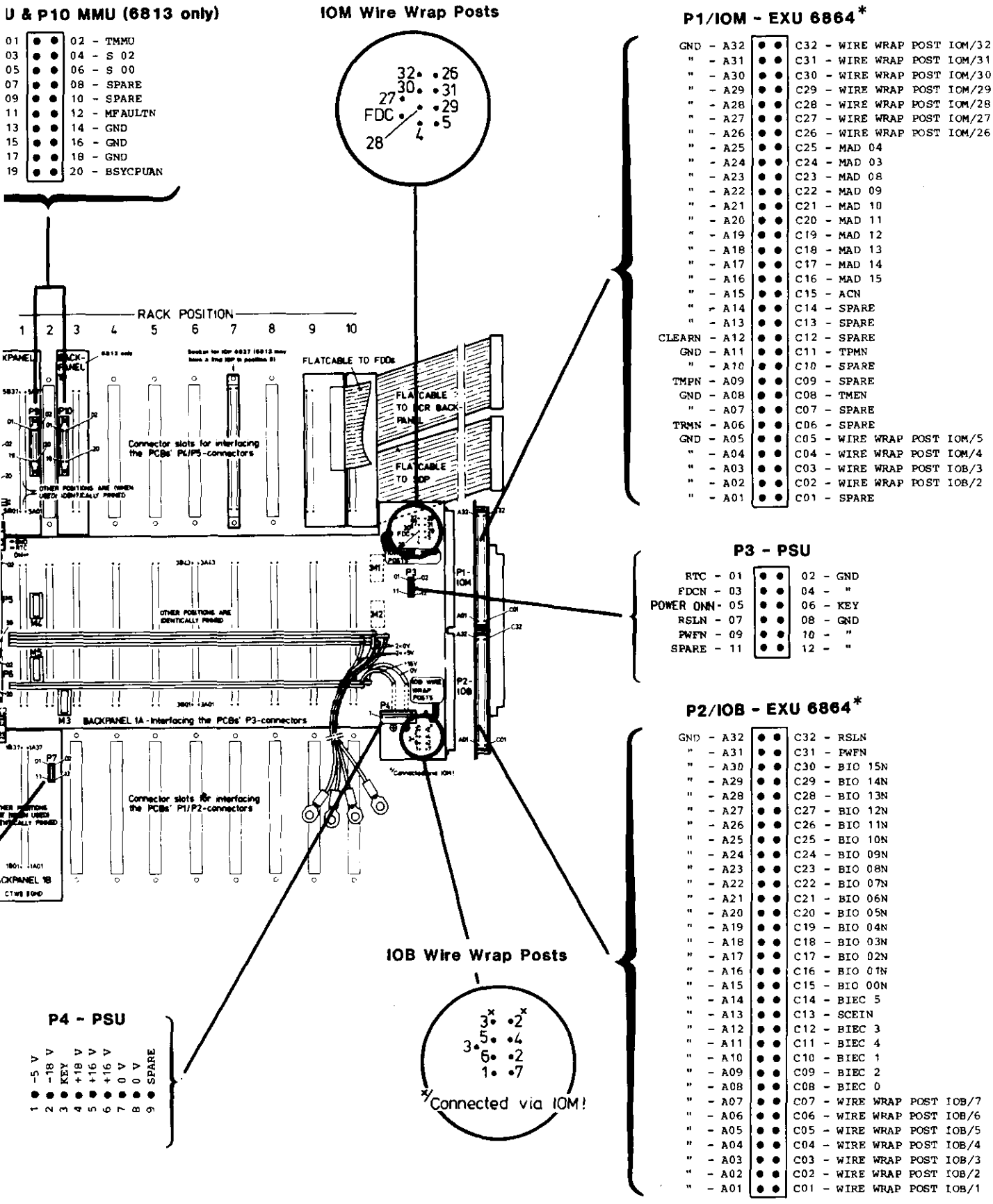
P3 - GENERAL

M1/15 --- MAD 128	- 3B43	3A43 - BR
M1/14 --- MAD 64	- 3B42	3A42 - BR
M1/13 --- MAD 00	- 3B41	3A41 - BR
M1/12 --- MAD 01	- 3B40	3A40 - GND
M1/11 --- MAD 02	- 3B39	3A39 - CLEARN
MAD 03	- 3B38	3A38 - BSYN ----- M1/10
MAD 04	- 3B37	3A37 - MSN ------ M1/9
M1/5 ---- MAD 05	- 3B36	3A36 - BUSRN ---- M1/7
M1/4 ---- MAD 06	- 3B35	3A35 - SPYC ----- M1/6
M1/3 ---- MAD 07	- 3B34	3A34 - ACN
MAD 08	- 3B33	3A33 - GND
MAD 09	- 3B32	3A32 - TPMN
MAD 10	- 3B31	3A31 - TMPN
MAD 11	- 3B30	3A30 - TMEN
MAD 12	- 3B29	3A29 - TMRN ----- M2/15
MAD 13	- 3B28	3A28 - TRMN
MAD 14	- 3B27	3A27 - CHA ------ M2/13
MAD 15	- 3B26	3A26 - WRITE ---- M2/12
+16 V	- 3B25	3A25 - GND
GND	- 3B24	3A24 - GND
+5 V	- 3B23	3A23 - BR
0 V	- 3B22	3A22 - 0 V
0 V	- 3B21	3A21 - 0 V
+5 V	- 3B20	3A20 - +5 V
+5 V	- 3B19	3A19 - +5 V
-5 V	- 3B18	3A18 - 0 V
RSLN	- 3B17	3A17 - PWFN
OKI	- 3B16	3A16 - OKO
BIO 15N	- 3B15	3A15 - BIO 14N
BIO 13N	- 3B14	3A14 - BIO 12N
BIO 11N	- 3B13	3A13 - BIO 10N
BIO 09N	- 3B12	3A12 - BIO 08N
BIO 07N	- 3B11	3A11 - BIO 06N
BIO 05N	- 3B10	3A10 - BIO 04N
BIO 03N	- 3B09	3A09 - BIO 02N
BIO 01N	- 3B08	3A08 - BIO 00N
0 V	- 3B07	3A07 - 0 V
+16 V	- 3B06	3A06 - +16 V
BIEC 5	- 3B05	3A05 - SCEIN
BIEC 3	- 3B04	3A04 - BIEC 4
BIEC 1	- 3B03	3A03 - BIEC 2
Chassis GND	- 3B02	3A02 - BIEC 0
-18 V	- 3B01	3A01 - +18 V

M1/M2 Ternets

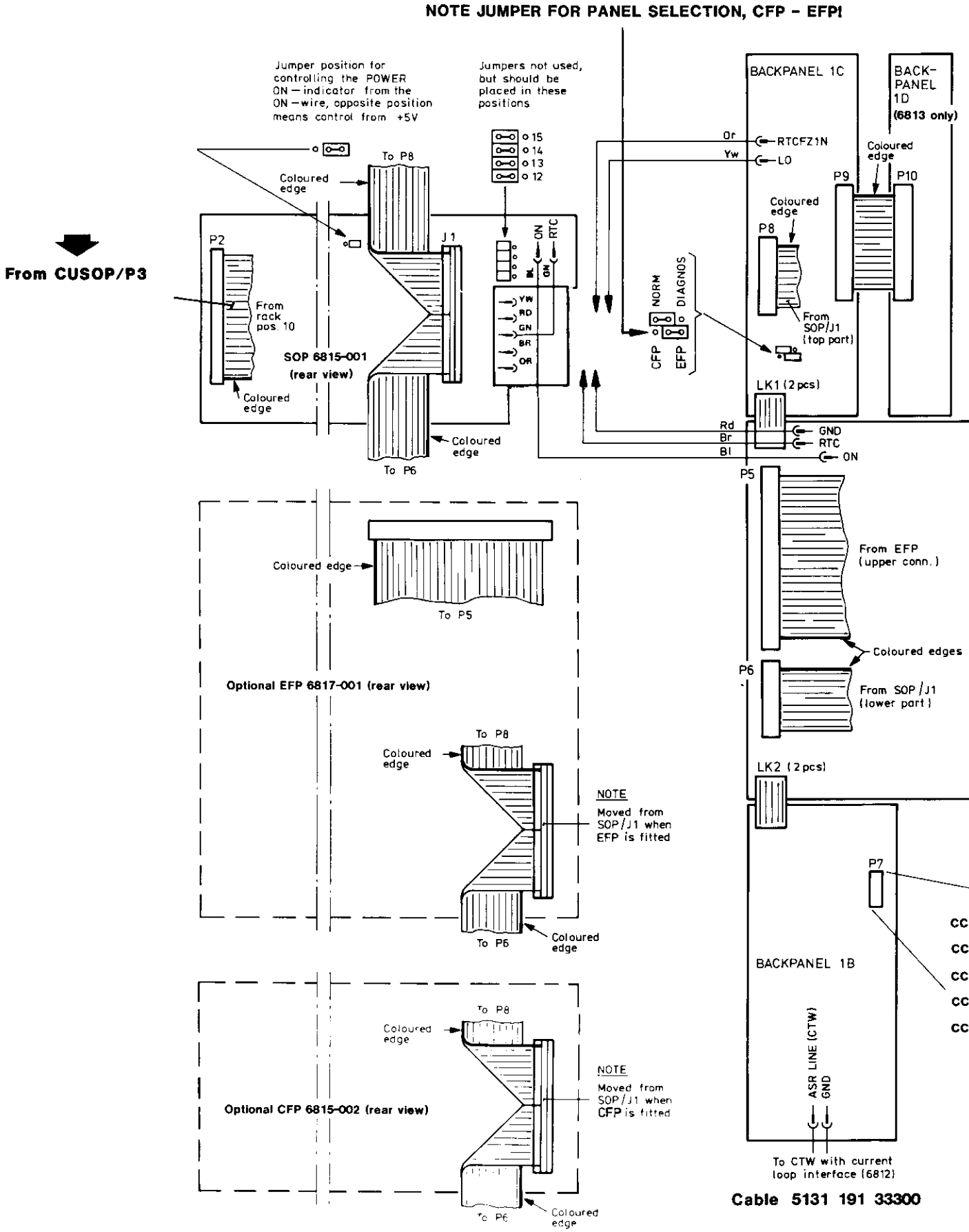


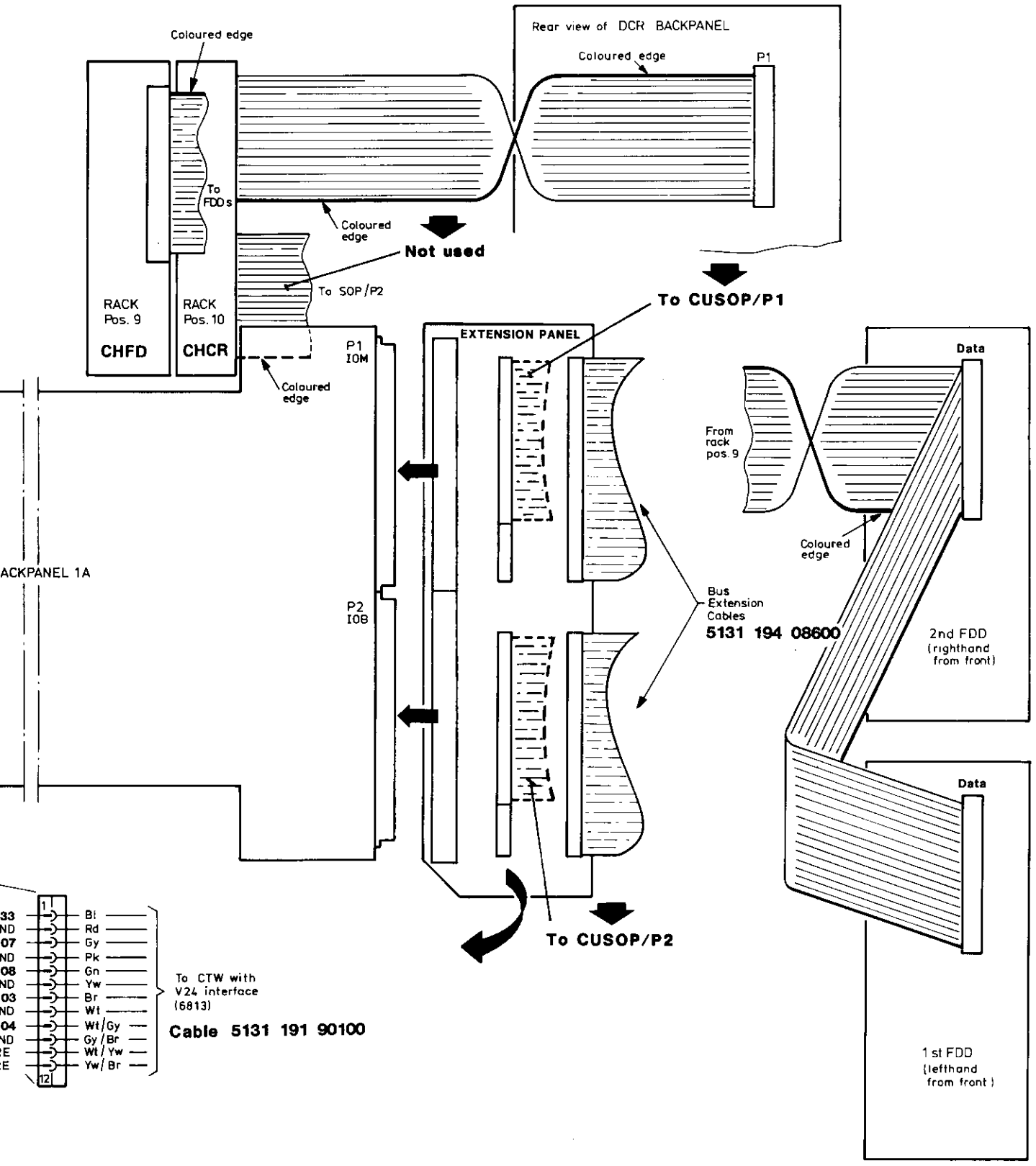

P8 - SOP/CFP/EFP
CPMCN - 01
IPL - 03
START - 05
CPINT - 07
RUNFA - 09
RCP 01N - 11
RCP 02N - 13
READMN - 15
LOADMN - 17
+5 V - 19
02 - BIOEKEY
04 - UNLOCKN
06 - RUNN
08 - RCP 00N
10 - LOADRN
12 - READSTN
14 - RCP 03N
16 - INSTN
18 - LOCKN (LO)
20 - +5 V
P9 C
TMMN
S 03
S 01
FU
BOMFN
DONEMN
MMUABS
GND
OSCFLO
GFETCH
LK 1
RTCFZ1N
SPARE
+5V
+5V
READRN
BSYCPUAN
GND
PREQN
GND
GBCPFN
P5 - EFP 6817
SPARE - 01
" - 03
" - 05
" - 07
+5 V - 09
+5 V - 11
+5 V - 13
SPARE - 15
" - 17
" - 19
" - 21
" - 23
" - 25
" - 27
" - 29
" - 31
" - 33
" - 35
" - 37
" - 39
" - 41
" - 43
" - 45
" - 47
0 V - 49
02 - PREQN
04 - BSYCPUAN
06 - GBCPFN
08 - TRMN
10 - +5 V
12 - +5 V
14 - +5 V
16 - WRITE
18 - MAD 128
20 - MAD 64
22 - MAD 00
24 - MAD 01
26 - MAD 02
28 - MAD 03
30 - MAD 04
32 - MAD 05
34 - MAD 06
36 - MAD 07
38 - MAD 08
40 - MAD 09
42 - MAD 10
44 - MAD 11
46 - MAD 12
48 - MAD 13
50 - MAD 14
P6 - SOP/CFP/EFP
BIO 15N - 01
BIO 13N - 03
BIO 11N - 05
BIO 09N - 07
BIO 07N - 09
BIO 05N - 11
BIO 03N - 13
BIO 01N - 15
SPARE - 17
0 V - 19
02 - BIO 14N
04 - BIO 12N
06 - BIO 10N
08 - BIO 08N
10 - BIO 06N
12 - BIO 04N
14 - BIO 02N
16 - BIO 00N
18 - READRN
20 - 0 V
LK 2
BIEC 3
GND
BIEC 4
GND
BIEC 1
RTCFZ1N
BIEC 2
BIEC 5
BIEC 0
SCEIN
P7 - CTW (V24)
CCITT 133 - 01
CCITT 107 - 03
CCITT 108 - 05
CCITT 103 - 07
CCITT 104 - 09
SPARE - 11
02 - GND
04 - "
06 - "
08 - "
10 - "
12 - SPARE

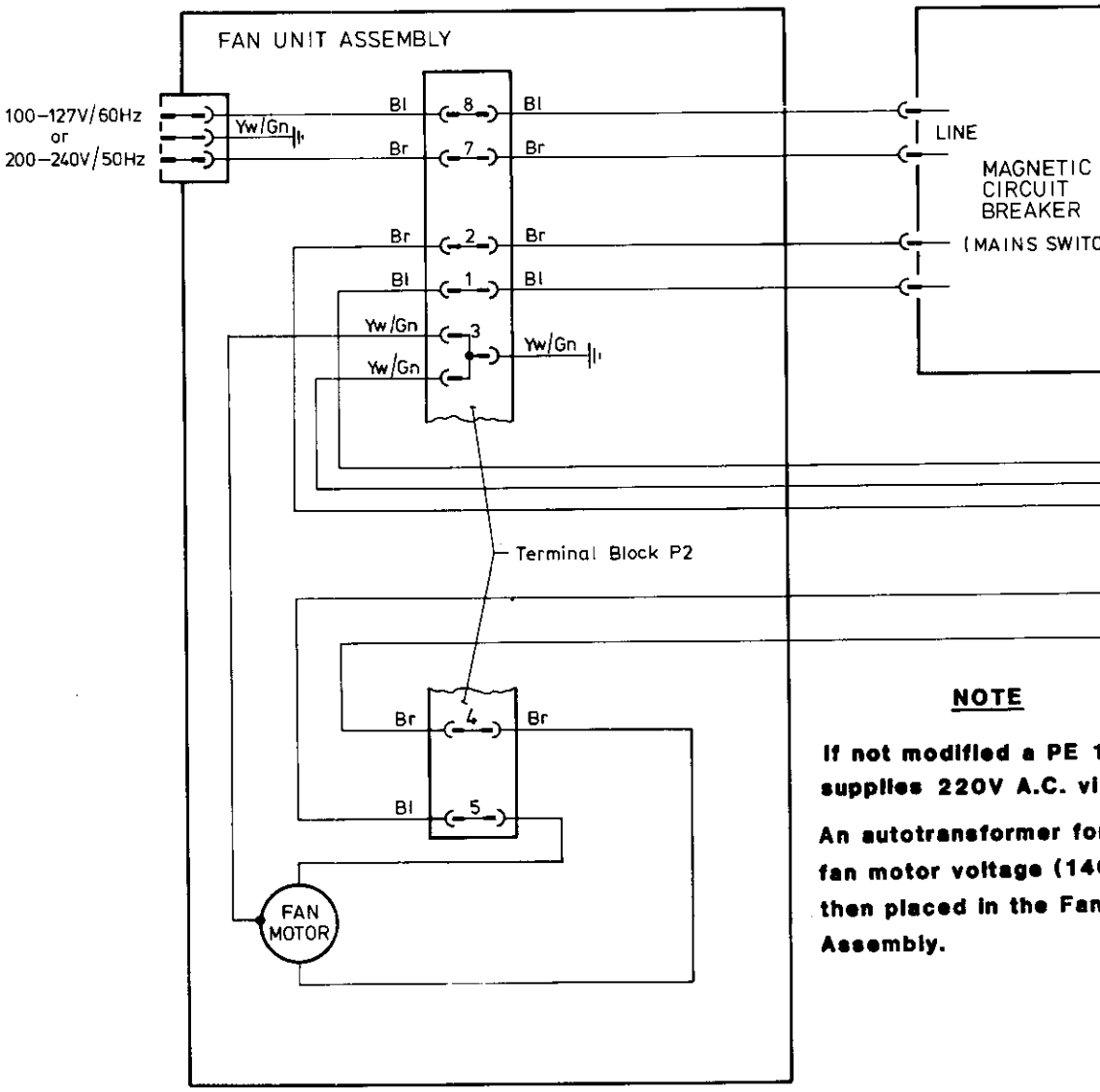


*Via an Extension Panel, see Chapter 2!

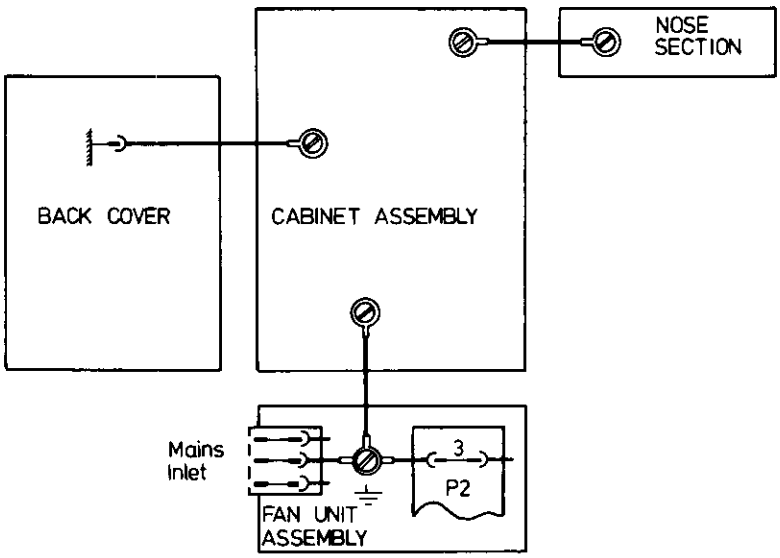
Notes applicable when using an upgraded SOP (including a CUSOP)

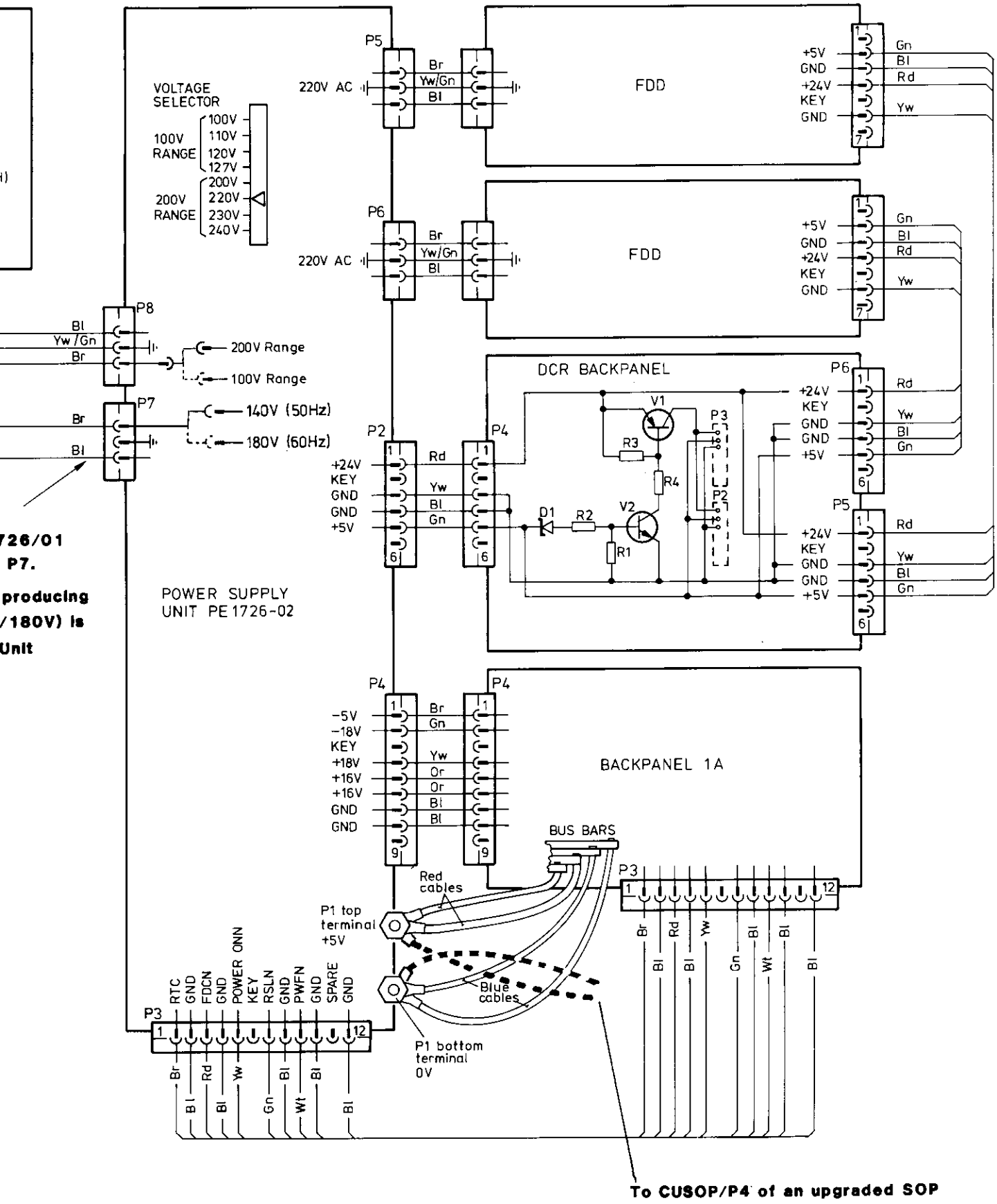



Coloured edge
Rear view of DCR BACKPANEL
Coloured edge
P1
To FDDs
Coloured edge
Not used
To SOP/P2
To CUSOP/P1
RACK Pos. 9
CHFD
RACK Pos. 10
CHCR
P1 IOM
Coloured edge
EXTENSION PANEL
Data
From rack pos. 9
Coloured edge
ACKPANEL 1A
P2 IOB
Bus Extension Cables
5131 194 08600
2nd FDD (righthand from front)
Data
To CUSOP/P2
1 st FDD (lefthand from front)
Bl
Rd
Gy
Pk
Gn
Yw
Br
Wt
Wt/Gy
Gy/Br
Wt/Yw
Yw/Br
To CTW with V24 interface (6813)
Cable 5131 191 90100

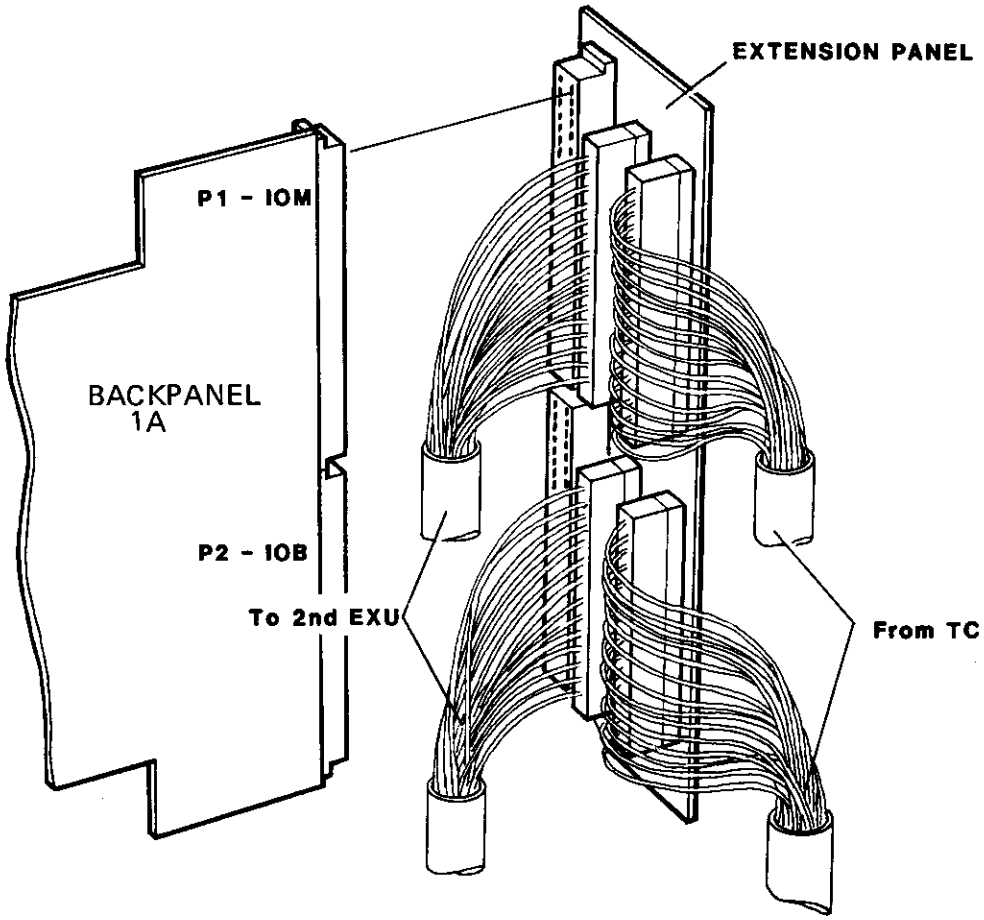


PROTECTIVE EARTH SYSTEM




VOLTAGE SELECTOR
100V RANGE
100V
110V
120V
127V
200V RANGE
200V
220V
230V
240V
220V AC
P5
Br
Yw/Gn
Bl
FDD
+5V
GND
+24V
KEY
GND
Gn
Bl
Rd
Yw
P6
220V AC
FDD
P8
Bl
Yw/Gn
Br
200V Range
100V Range
P7
Br
Bl
140V (50Hz)
180V (60Hz)
DCR BACKPANEL
P2
P4
+24V
KEY
GND
GND
+5V
Rd
Yw
Bl
Gn
V1
V2
R1
R2
R3
R4
D1
P3
P2
P6
P5
POWER SUPPLY
UNIT PE1726-02
-5V
-18V
KEY
+18V
+16V
+16V
GND
GND
Br
Gn
Yw
Or
Or
Bl
Bl
BACKPANEL 1A
BUS BARS
Red cables
Blue cables
P1 top terminal +5V
P1 bottom terminal 0V
P3
RTC
GND
FDCN
GND
POWER ONN
KEY
RSLN
GND
PWFN
GND
SPARE
GND
Br
Bl
Rd
Yw
Gn
Wt
To CUSOP/P4 of an upgraded SOP

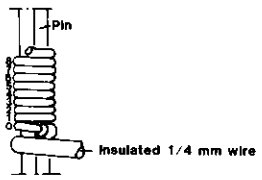
CABLING FROM TC/TO 2ND EXU



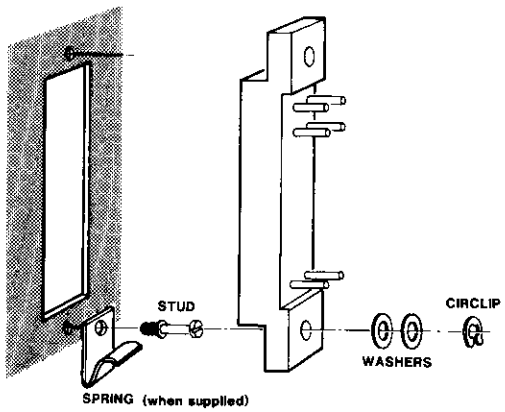
Ternets, ty
(5322 209
for extend

INSTALLING RACK BACKPANEL OPTIONS

Additional wire wrap connections

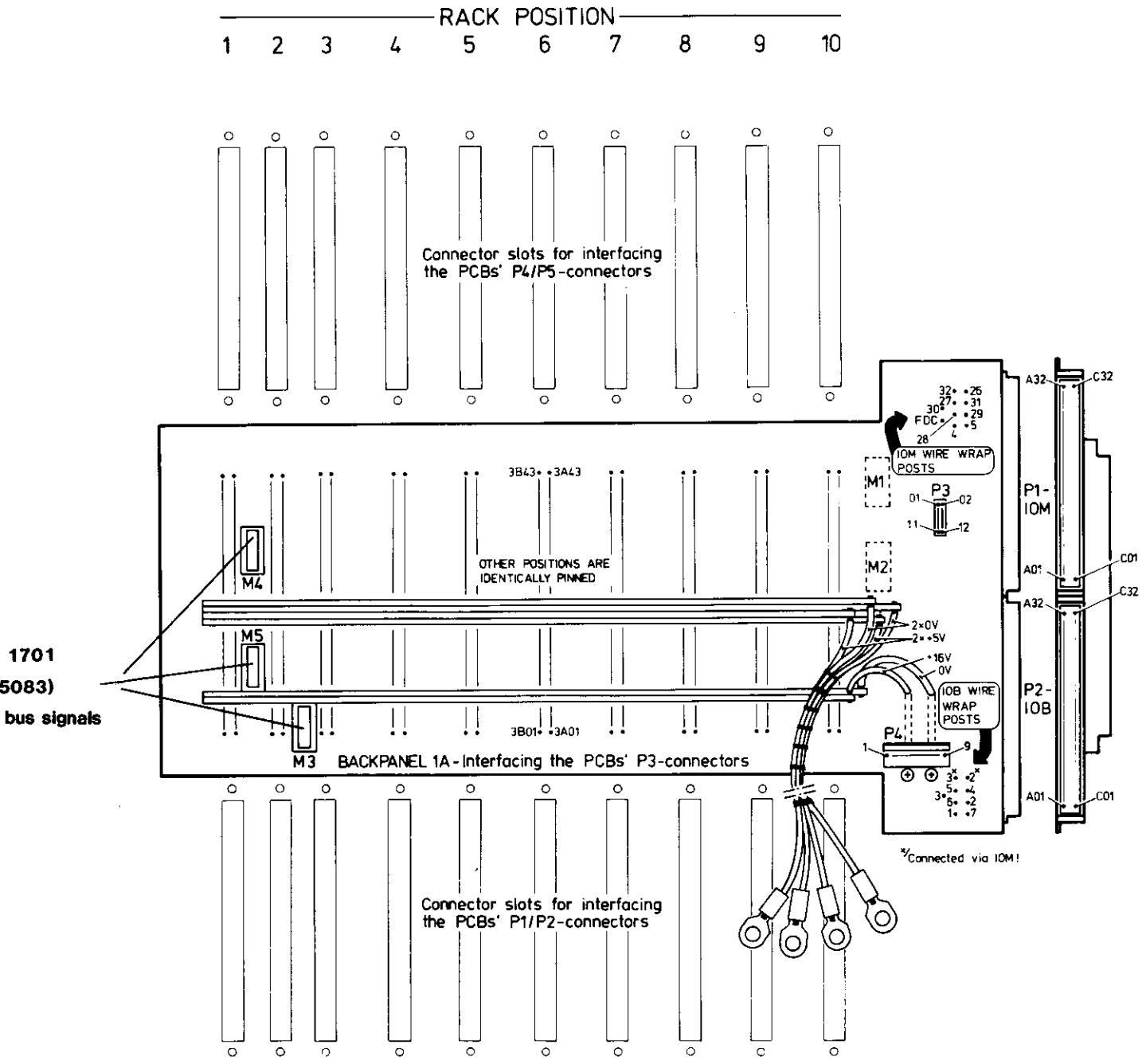


Socket for P1/P2 or P4/P5 connectors

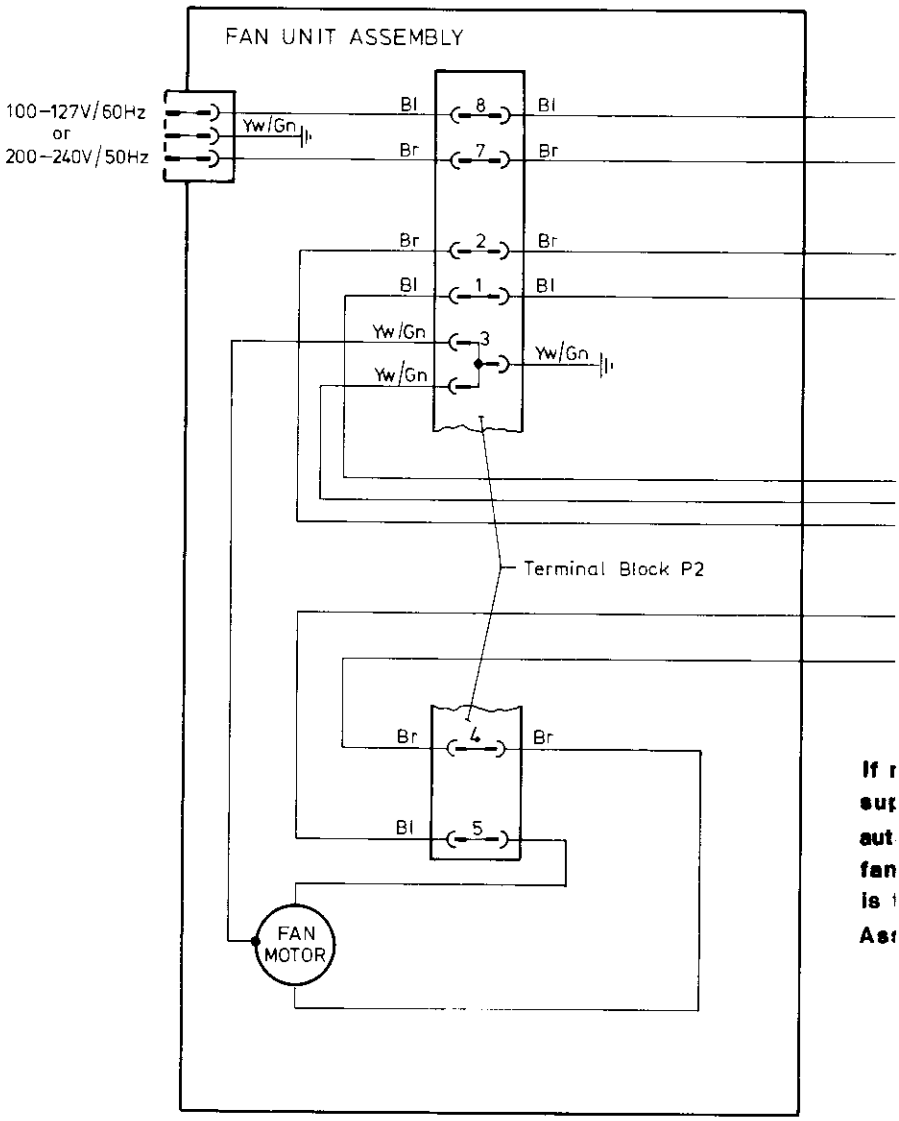


EXU 6864

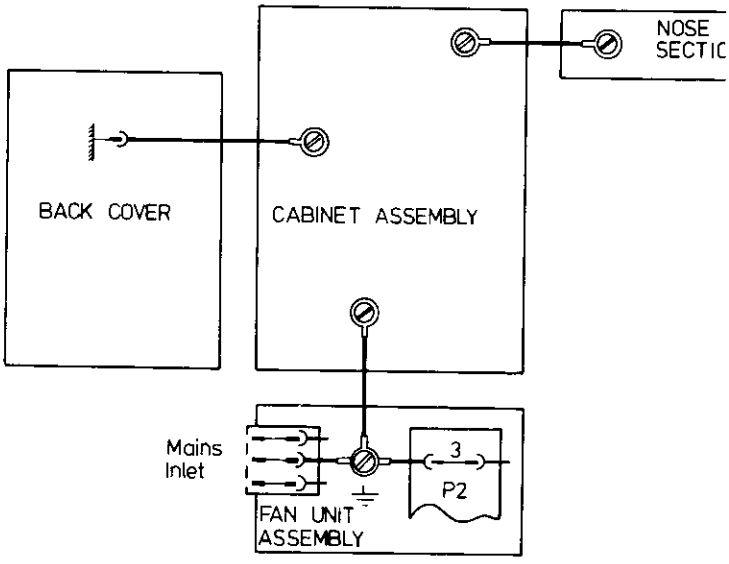
2-layer Backpanel



For multilayer type, see page 6.4-4!

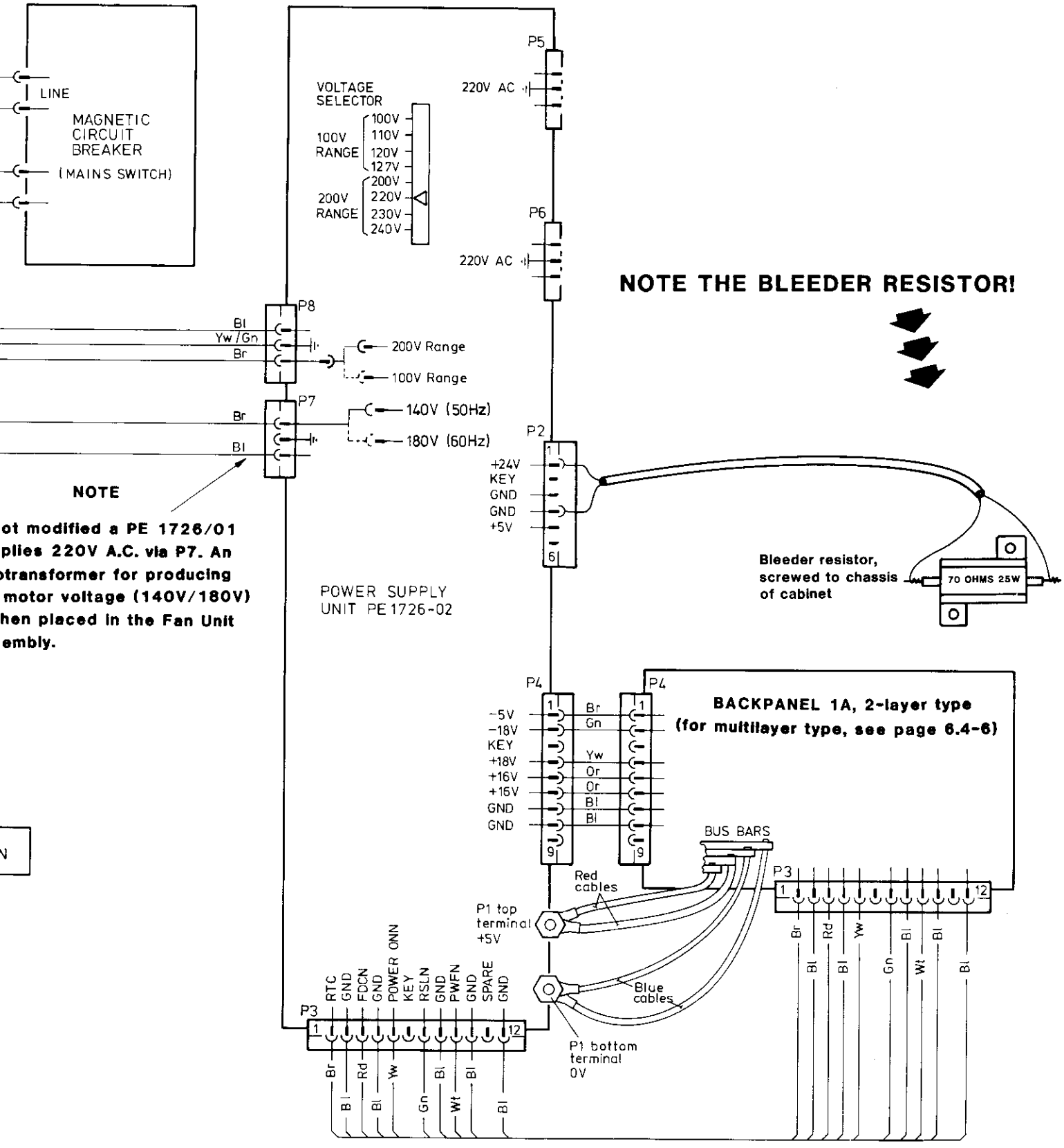


PROTECTIVE EARTH SYSTEM



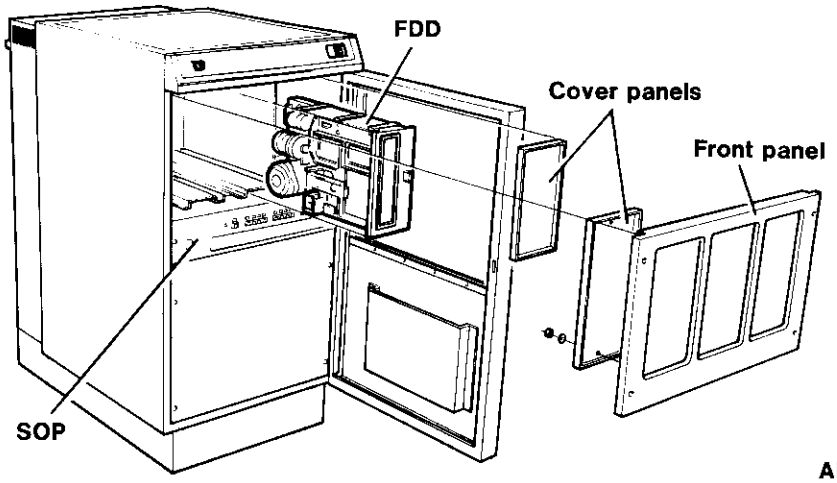
EXU 6864

Power Distribution
(2-layer backpanel)

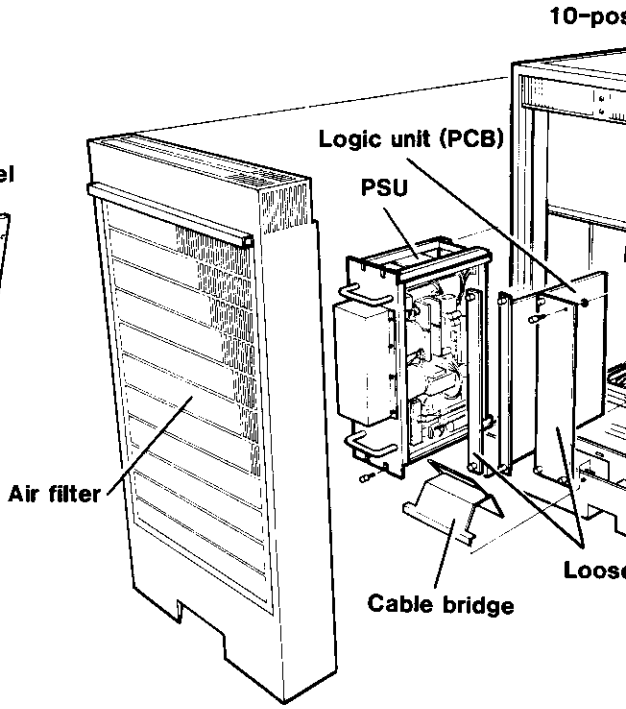


NOTE

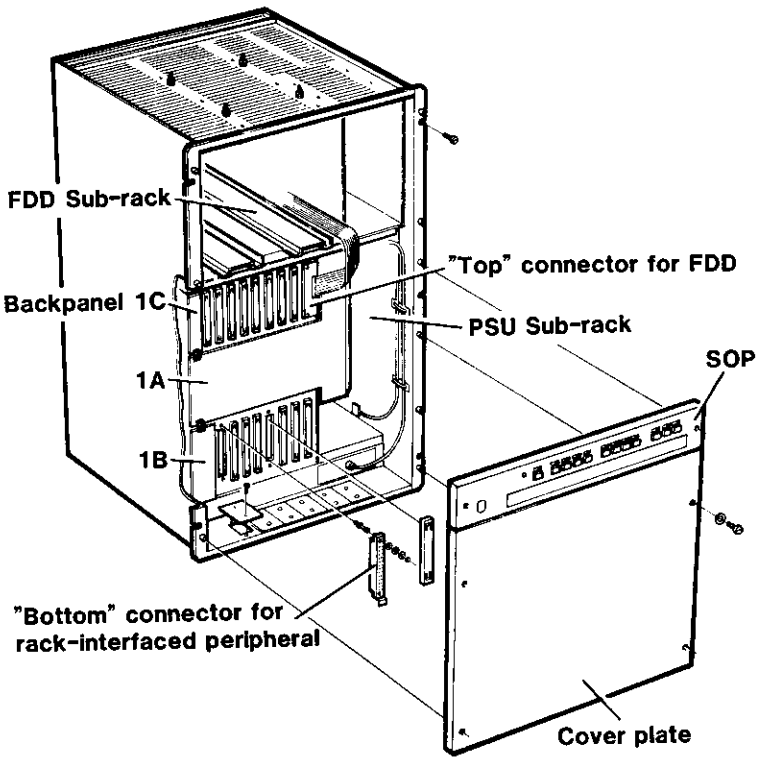
ot modified a PE 1726/01
plies 220V A.C. via P7. An
otransformer for producing
motor voltage (140V/180V)
hen placed in the Fan Unit
embly.



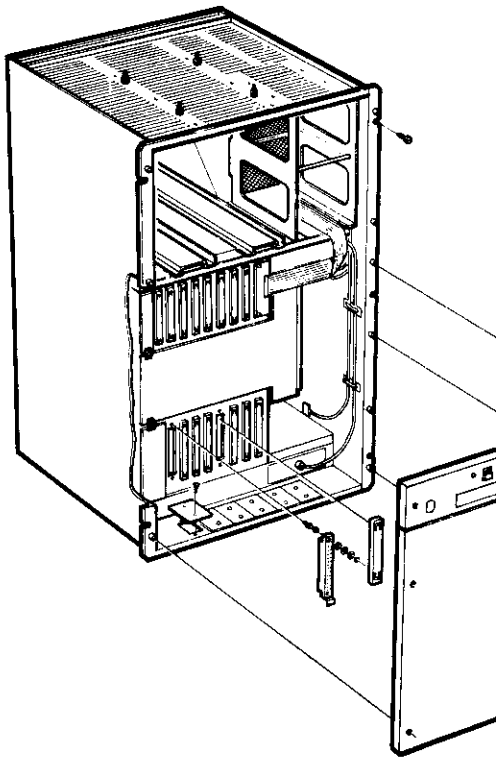
SHOWN CABINET IS FOR TC 6824, TC 6814 IS HOUSED IN THE SAME TYPE OF CABINET AS TC 6812/13



RACK FOR TC 6824, WITHOUT DCR SUB-RACK



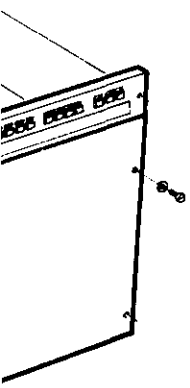
RACK FOR TC 6814, WITH DCR SUB-RACI



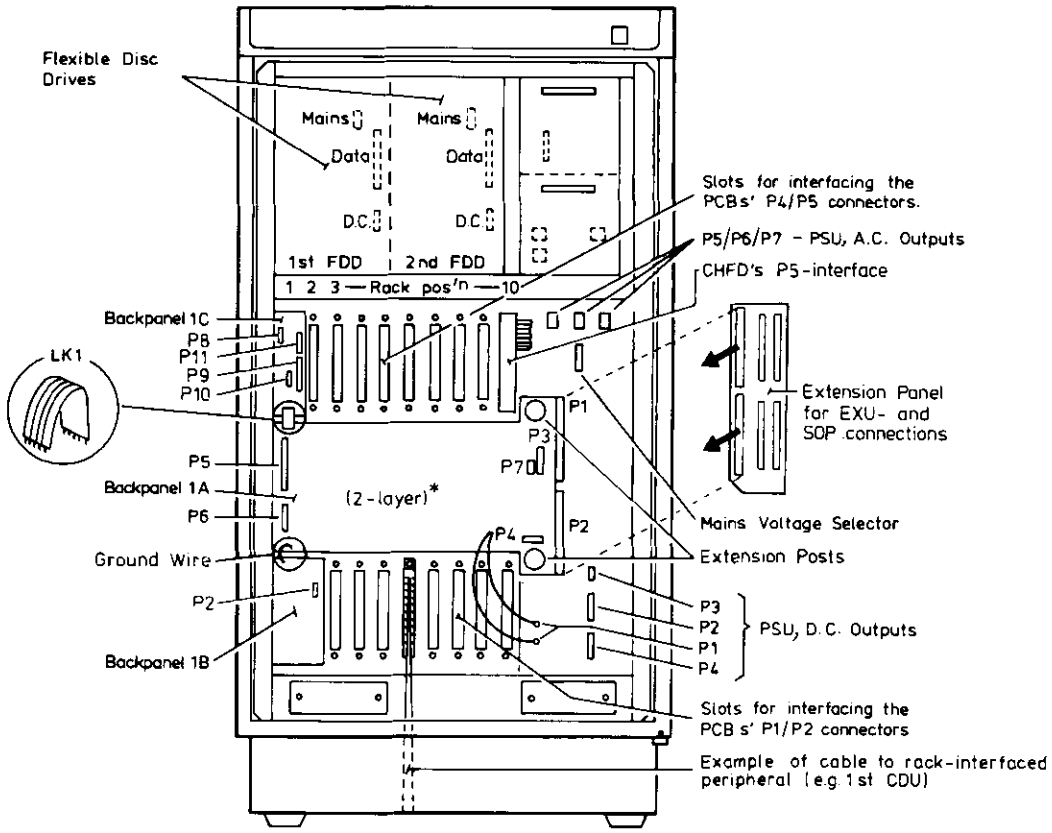
Physical Structure

tion Rack

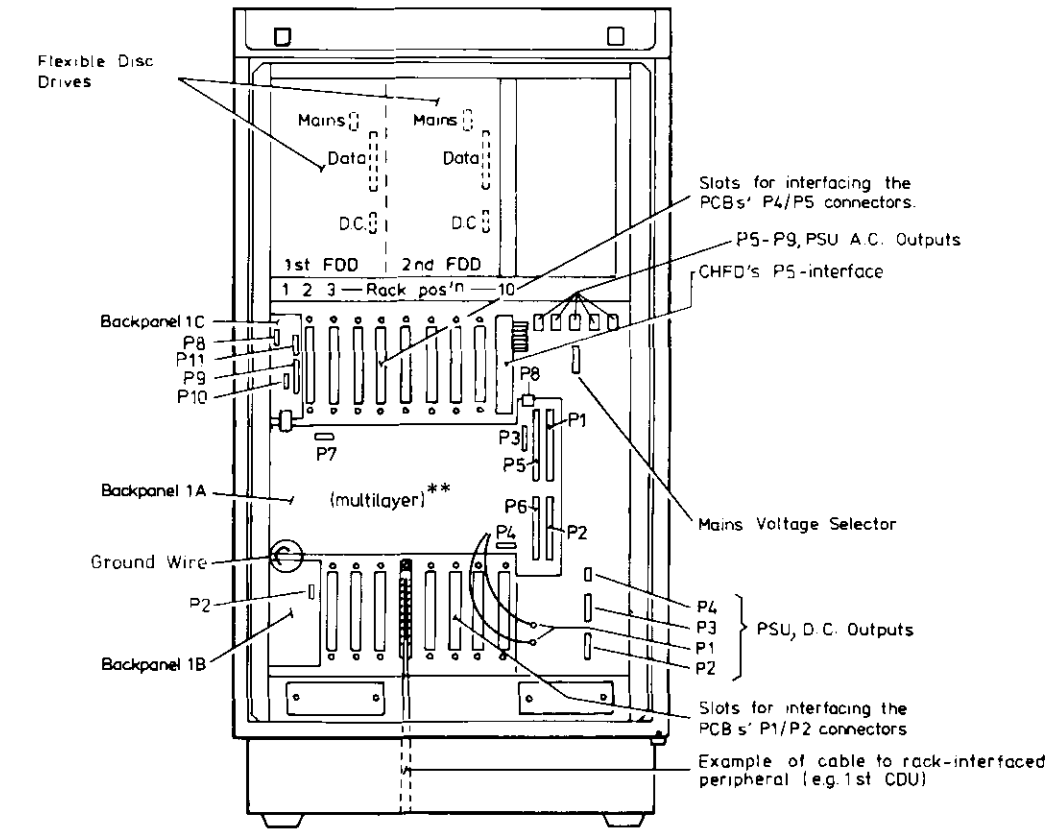
PCB panels



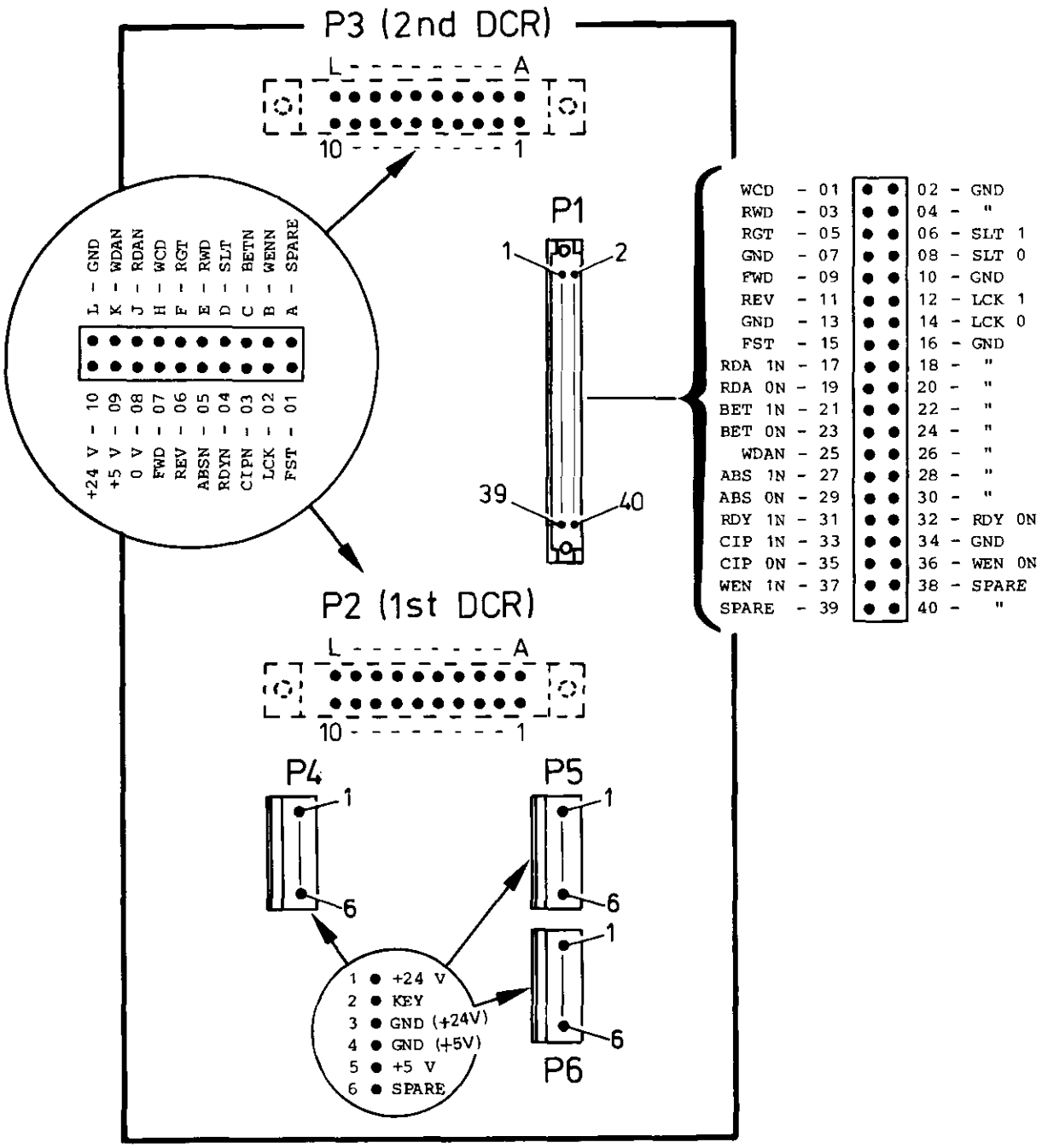
TC 6814

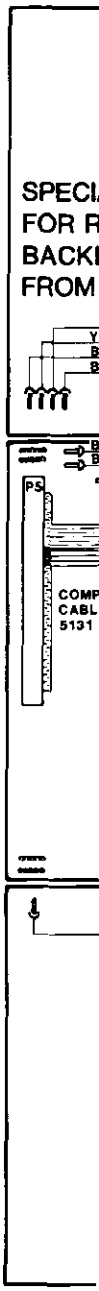


TC 6824



***or multilayer, see 6824 **or 2-layer, see 6814**



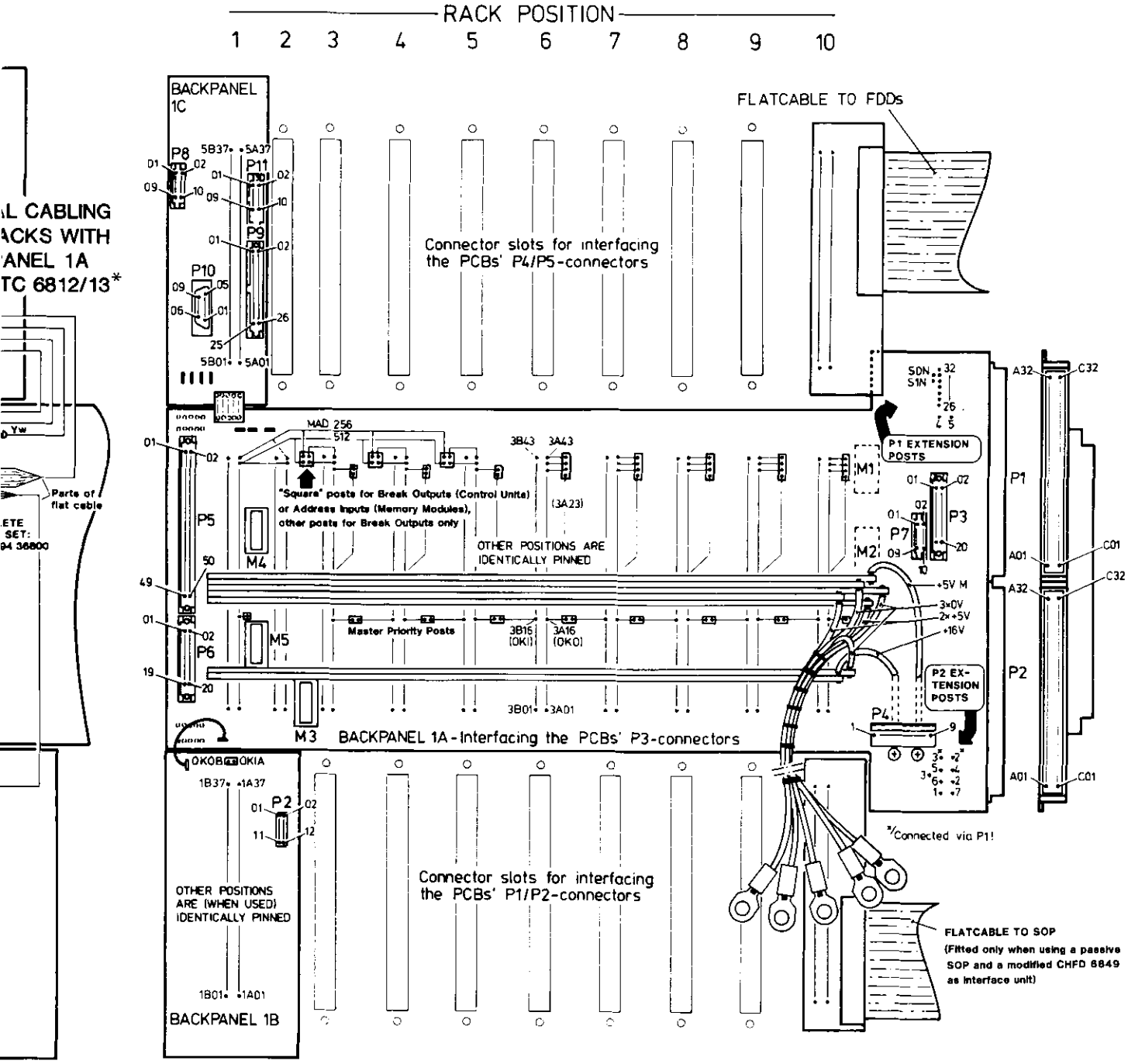


*In cabi

NOTE

See Page 6.5-5/6 for rack backpanel assembly with 1A of multilayer type!

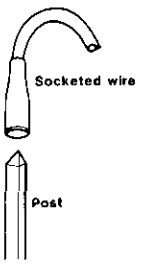
DCR Backpanel (6814 only) and 2-layer Rack Backpanels



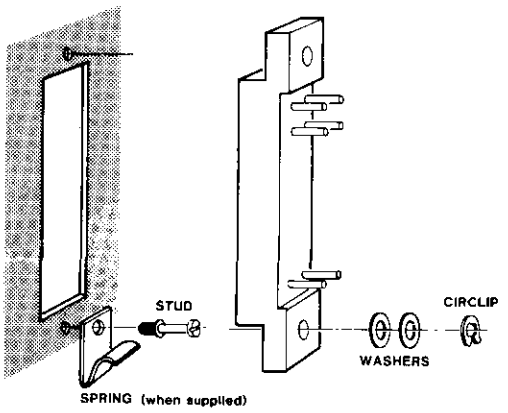
ets of type 5131 193 92900

INSTALLING RACK BACKPANEL OPTIONS

Additional connections with socketed wires between special posts



Socket for P1/P2 or P4/P5 connectors



P5 - CPU P857R/RA

-12 V -	5B37	5A37	- SPARE
SPARE -	5B36	5A36	- SPARE
+12 V -	5B35	5A35	- RTCE
RESETN -	5B34	5A34	- SDMP
+5 V -	5B33	5A33	- SPARE
IPLN -	5B32	5A32	- IPLRMTN
GND -	5B31	5A31	- SDPM
IPL -	5B30	5A30	- LOCK
OPS0N -	5B29	5A29	- SPARE
OPS1N -	5B28	5A28	- "
OPS2N -	5B27	5A27	- "
OPS3N -	5B26	5A26	- "
RTCZ1N -	5B25	5A25	- "
SPARE -	5B24	5A24	- "
BAWOFN -	5B23	5A23	- "
SPARE -	5B22	5A22	- "
" -	5B21	5A21	- "
PAFN -	5B20	5A20	- "
SPARE -	5B19	5A19	- "
" -	5B18	5A18	- "
" -	5B17	5A17	- OSC
" -	5B16	5A16	- SPARE
FPPABS -	5B15	5A15	- FLOCR 1
FLOCRO -	5B14	5A14	- DONEFN
BOFFN -	5B13	5A13	- GFETCH
TMFN -	5B12	5A12	- BSYCPUN
SPARE -	5B11	5A11	- FLOACT
" -	5B10	5A10	- SPARE
" -	5B09	5A09	- "
" -	5B08	5A08	- "
" -	5B07	5A07	- IS07N
INTSERN -	5B06	5A06	- IS06N
CPINTN -	5B05	5A05	- IS05N
SPARE -	5B04	5A04	- IS04N
" -	5B03	5A03	- IS03N
" -	5B02	5A02	- SPARE
" -	5B01	5A01	- "

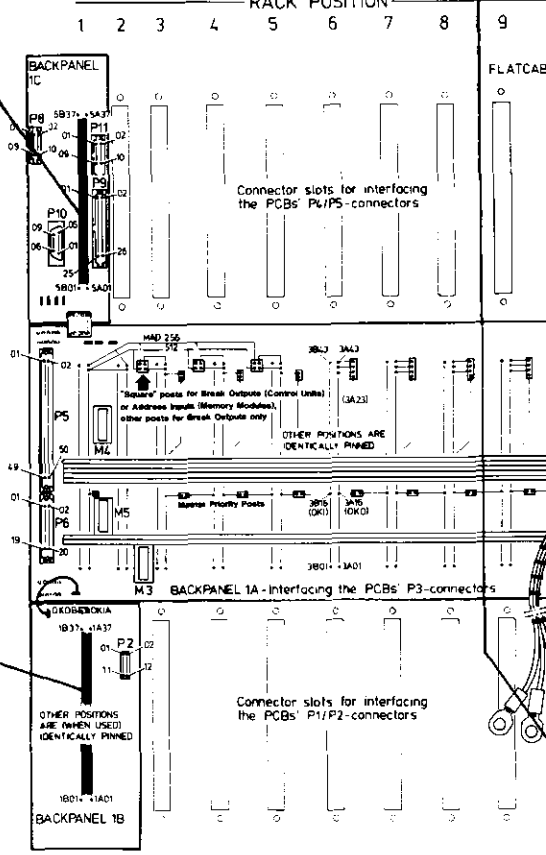
P1 - CHFD 6E

SPARE -	1B37		1A
" -	1B36		1A
" -	1B35		1A
" -	1B34		1A
" -	1B33		1A
" -	1B32		1A
" -	1B31		1A
" -	1B30		1A
" -	1B29		1A2
" -	1B28		1A2
" -	1B27		1A2
" -	1B26		1A2
" -	1B25		1A2
" -	1B24		1A2
" -	1B23		1A2
" -	1B22		1A2
" -	1B21		1A2
LED13N -	1B20		1A2
+5V -	1B19		1A1
LED10N -	1B18		1A1
LED14N -	1B17		1A1
0V -	1B16		1A1
LED11N -	1B15		1A1
0V -	1B14		1A1
0V -	1B13		1A1
0V -	1B12		1A1
LED05N -	1B11		1A1
0V -	1B10		1A1
0V -	1B09		1A0
0V -	1B08		1A0
CHAIN BEGINN -	1B07		1A0
0V -	1B06		1A0
0V -	1B05		1A0
0V -	1B04		1A0
0V -	1B03		1A0
DSW10N -	1B02		1A0
DSW08N -	1B01		1A0

***Used only for connection of a passive SOP (type 5131 193 83300)**

P1 - CPU P857R/RA

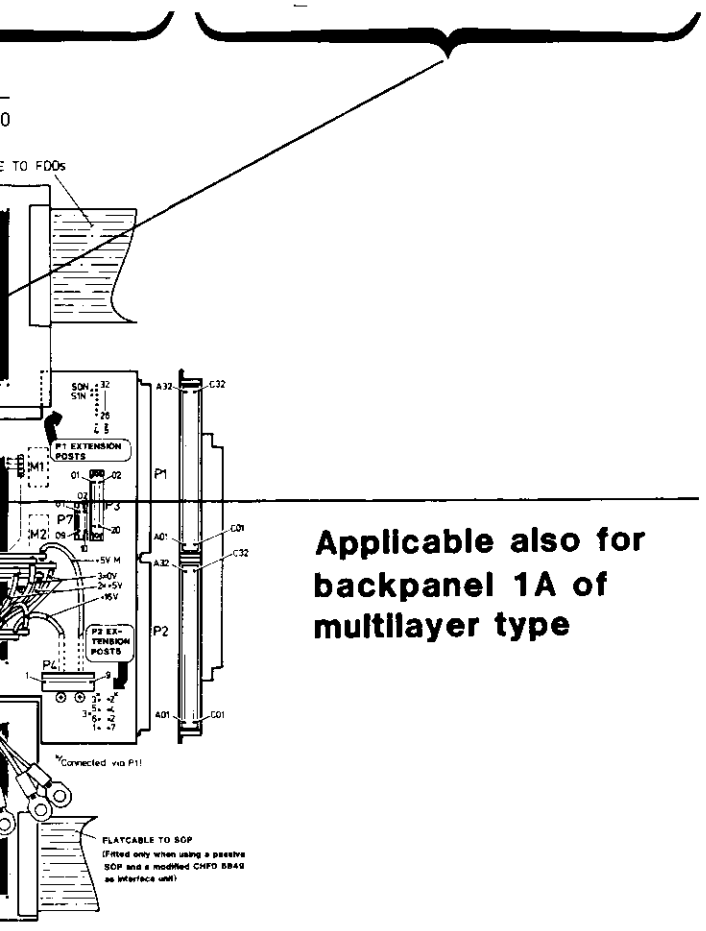
SPARE -	1B37	1A37	- SPARE
OKOB -	1B36	1A36	- OK1B
OKOA -	1B35	1A35	- OK1A
SPARE -	1B34	1A34	- SPARE
" -	1B33	1A33	- "
" -	1B32	1A32	- "
" -	1B31	1A31	- "
" -	1B30	1A30	- "
" -	1B29	1A29	- "
" -	1B28	1A28	- "
" -	1B27	1A27	- "
" -	1B26	1A26	- BR15N
" -	1B25	1A25	- BR14N
" -	1B24	1A24	- BR13N
" -	1B23	1A23	- BR12N
" -	1B22	1A22	- BR11N
" -	1B21	1A21	- BR10N
" -	1B20	1A20	- BR09N
" -	1B19	1A19	- BR08N
" -	1B18	1A18	- BR07N
" -	1B17	1A17	- BR06N
" -	1B16	1A16	- BR05N
" -	1B15	1A15	- BR04N
" -	1B14	1A14	- BR03N
" -	1B13	1A13	- BR02N
" -	1B12	1A12	- BR01N
" -	1B11	1A11	- BR00N
" -	1B10	1A10	- SPARE
" -	1B09	1A09	- "
" -	1B08	1A08	- "
" -	1B07	1A07	- CCITT 133
" -	1B06	1A06	- SPARE
" -	1B05	1A05	- CCITT 108
" -	1B04	1A04	- CCITT 107
" -	1B03	1A03	- SPARE
" -	1B02	1A02	- CCITT 103
GND -	1B01	1A01	- CCITT 104



NOTE: 1B35 - 1A36: AT BACKPANEL 1B
PROTO TYPES: WIRE WRAPPED AT CONNECTOR

P5 - CHFD 6849

49*						
7 - SPARE	GND -	5B37	● ●	5A37	-	RDLN
6 - "	" -	5B36	● ●	5A36	-	HLN
5 - "	" -	5B35	● ●	5A35	-	TRON
4 - "	" -	5B34	● ●	5A34	-	INDN
3 - "	" -	5B33	● ●	5A33	-	LWCN
2 - "	" -	5B32	● ●	5A32	-	STEPN
1 - "	" -	5B31	● ●	5A31	-	DIRN
0 - "	" -	5B30	● ●	5A30	-	WEN
9 - "	" -	5B29	● ●	5A29	-	WDN
8 - "	" -	5B28	● ●	5A28	-	SEL0N
7 - "	" -	5B27	● ●	5A27	-	SEL1N
6 - "	" -	5B26	● ●	5A26	-	SEL2N
5 - "	" -	5B25	● ●	5A25	-	SEL3N
4 - "	SPARE -	5B24	● ●	5A24	-	SPARE
3 - "	" -	5B23	● ●	5A23	-	"
2 - "	" -	5B22	● ●	5A22	-	"
1 - "	" -	5B21	● ●	5A21	-	"
0 - +5V	" -	5B20	● ●	5A20	-	"
9 - LED15N	" -	5B19	● ●	5A19	-	"
8 - LED10N	" -	5B18	● ●	5A18	-	"
7 - LED14N	" -	5B17	● ●	5A17	-	"
6 - LED12N	" -	5B16	● ●	5A16	-	"
5 - LED11N	" -	5B15	● ●	5A15	-	"
4 - LED09N	" -	5B14	● ●	5A14	-	"
3 - LED08N	" -	5B13	● ●	5A13	-	"
2 - LED07N	" -	5B12	● ●	5A12	-	"
1 - LED06N	GND -	5B11	● ●	5A11	-	RDY1N
0 - DSW06N	" -	5B10	● ●	5A10	-	RDY2N
9 - CHAIN ENDN	" -	5B09	● ●	5A09	-	RDY3N
8 - DSW07N	" -	5B08	● ●	5A08	-	WRPN
7 - DSW15N	" -	5B07	● ●	5A07	-	RDY0N
6 - DSW14N	" -	5B06	● ●	5A06	-	DC40N
5 - DSW13N	" -	5B05	● ●	5A05	-	DC42N
4 - 0V	" -	5B04	● ●	5A04	-	SPARE
3 - DSW12N	DC45N -	5B03	● ●	5A03	-	"
2 - DSW11N	DC47N -	5B02	● ●	5A02	-	DC48N
1 - DSW09N	GND -	5B01	● ●	5A01	-	DC50N



Applicable also for backpanel 1A of multilayer type

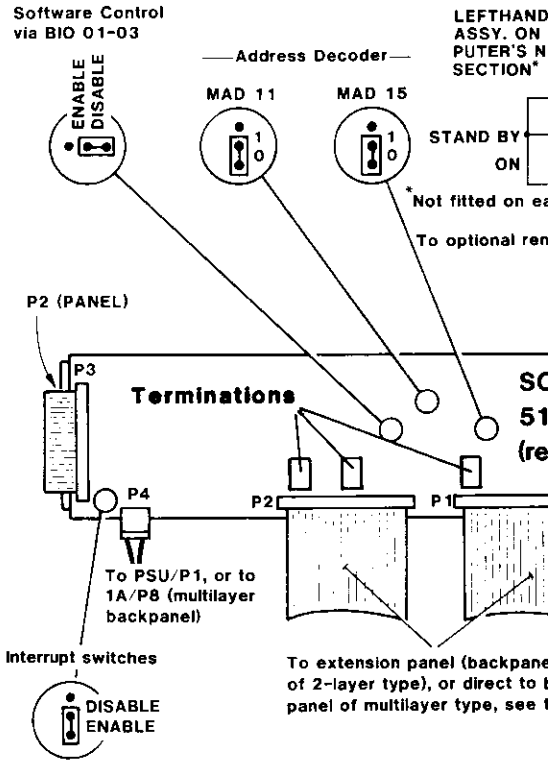
P3 - GENERAL

M1/15 ---	MAD 128 -	3B43	● ●	3A43	-	MAD 256/BR*
M1/14 ---	MAD 64 -	3B42	● ●	3A42	-	MAD 512/BR*
M1/13 ---	MAD 00 -	3B41	● ●	3A41	-	BR
M1/12 ---	MAD 01 -	3B40	● ●	3A40	-	GND
M1/11 ---	MAD 02 -	3B39	● ●	3A39	-	CLEARN
	MAD 03 -	3B38	● ●	3A38	-	BSYN ----- M1/10
	MAD 04 -	3B37	● ●	3A37	-	MSN ------ M1/9
M1/5 ----	MAD 05 -	3B36	● ●	3A36	-	BUSRN ---- M1/7
M1/4 ----	MAD 06 -	3B35	● ●	3A35	-	SPYC ----- M1/6
M1/3 ----	MAD 07 -	3B34	● ●	3A34	-	ACN
	MAD 08 -	3B33	● ●	3A33	-	GND
	MAD 09 -	3B32	● ●	3A32	-	TPMN
	MAD 10 -	3B31	● ●	3A31	-	TMPN
	MAD 11 -	3B30	● ●	3A30	-	TMEN
	MAD 12 -	3B29	● ●	3A29	-	TMRN ----- M2/15
	MAD 13 -	3B28	● ●	3A28	-	TRMN
	MAD 14 -	3B27	● ●	3A27	-	CHA ------ M2/13
	MAD 15 -	3B26	● ●	3A26	-	WRITE ---- M2/12
	+16 V -	3B25	● ●	3A25	-	GND
M1/M2 Ternets	GND -	3B24	● ●	3A24	-	GND
	+5 V -	3B23	● ●	3A23	-	BR
+5V (16)	0 V -	3B22	● ●	3A22	-	0 V
	0 V -	3B21	● ●	3A21	-	0 V
220	+5 V -	3B20	● ●	3A20	-	+5 V
	+5 V -	3B19	● ●	3A19	-	+5 V
	-5 V -	3B18	● ●	3A18	-	0 V
330	RSLN -	3B17	● ●	3A17	-	PWFN
	OKI -	3B16	● ●	3A16	-	OKO
(8)	BIO 15N -	3B15	● ●	3A15	-	BIO 14N
	BIO 13N -	3B14	● ●	3A14	-	BIO 12N
	BIO 11N -	3B13	● ●	3A13	-	BIO 10N
	BIO 09N -	3B12	● ●	3A12	-	BIO 08N
	BIO 07N -	3B11	● ●	3A11	-	BIO 06N
	BIO 05N -	3B10	● ●	3A10	-	BIO 04N
	BIO 03N -	3B09	● ●	3A09	-	BIO 02N
	BIO 01N -	3B08	● ●	3A08	-	BIO 00N
	0 V -	3B07	● ●	3A07	-	0 V
	+16 V -	3B06	● ●	3A06	-	+16 V
	BIEC 5 -	3B05	● ●	3A05	-	SCEIN
	BIEC 3 -	3B04	● ●	3A04	-	BIEC 4
	BIEC 1 -	3B03	● ●	3A03	-	BIEC 2
	Chassis GND -	3B02	● ●	3A02	-	BIEC 0
	-18 V -	3B01	● ●	3A01	-	+18 V

* Address lines in CPU and Memory positions, Break outputs in other positions.

IMPORTANT!

When installing this SOP assembly in an extended system (TC with one or two EXUs) - remove the terminations fitted on CUSOP, positions 8B, 10B & 14B!

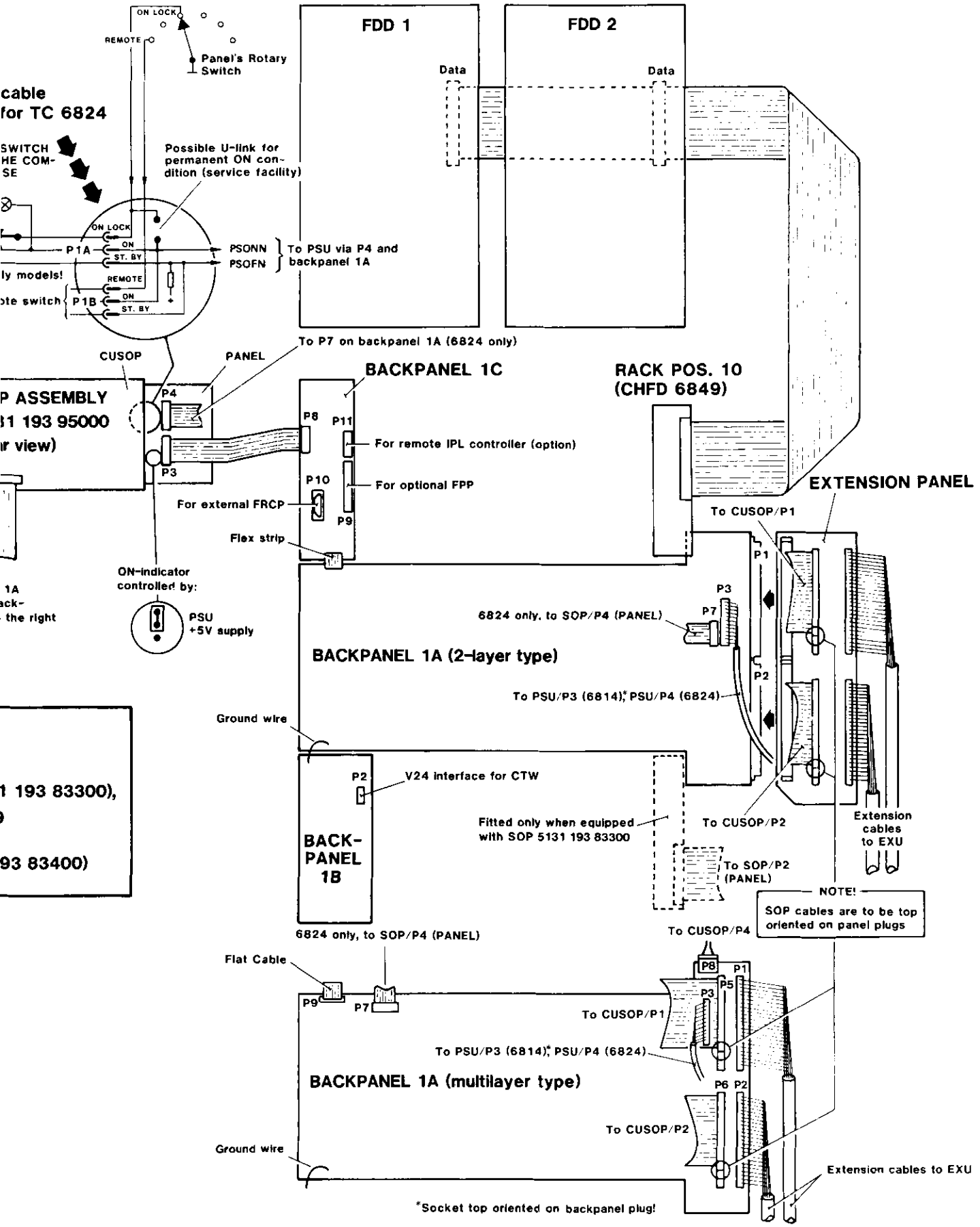


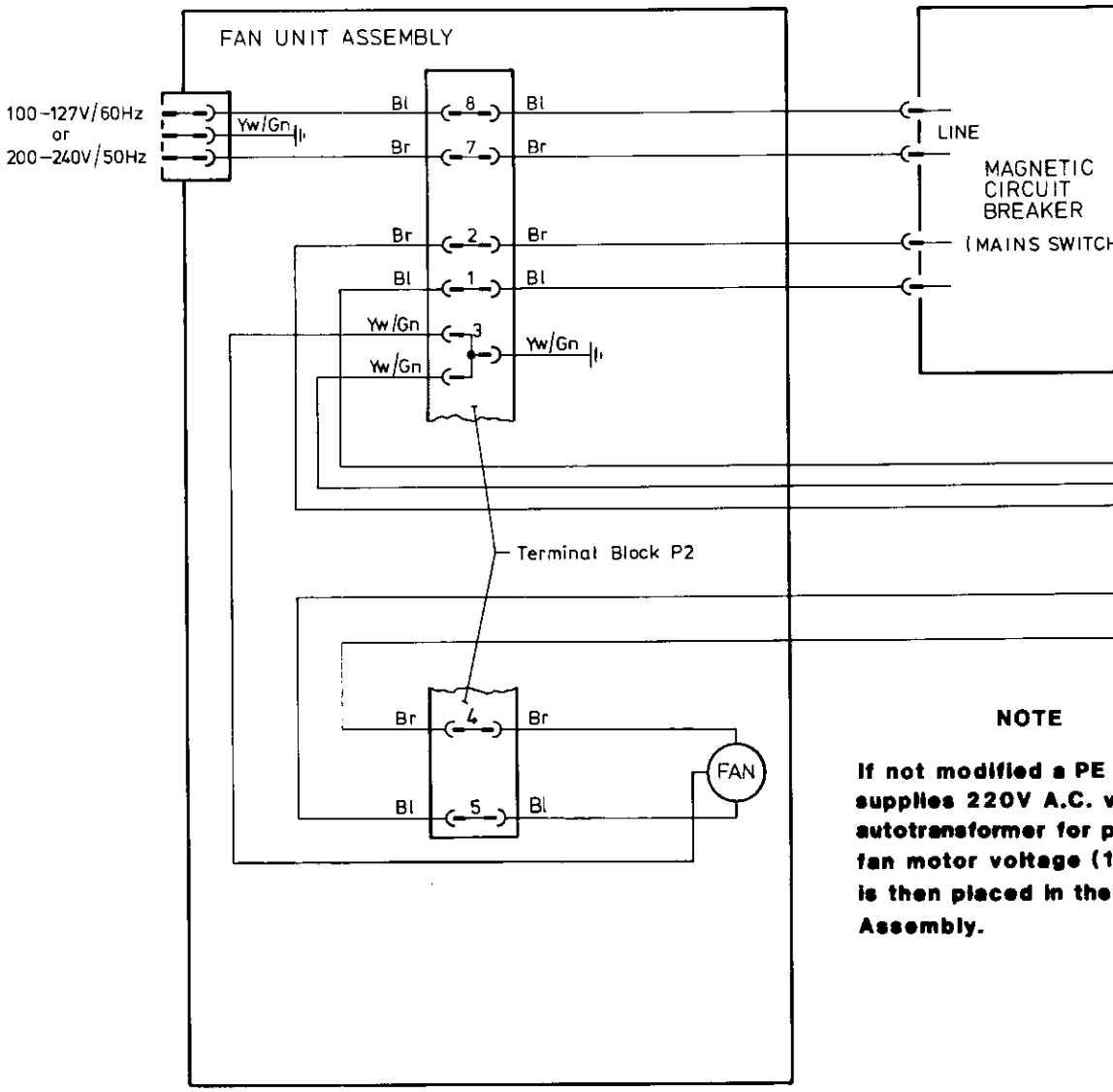
NOTE

Early deliveries of TC 6814 may have:

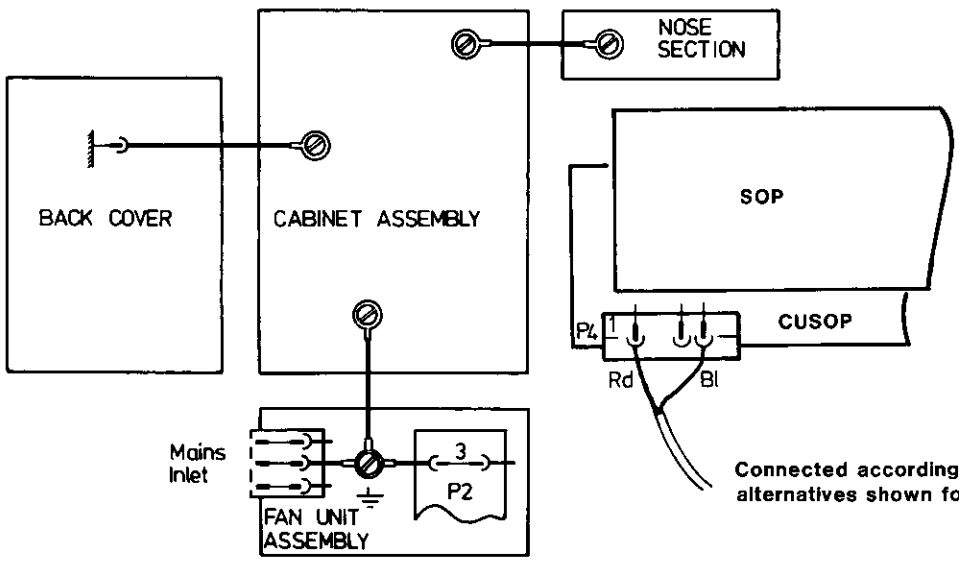
a) a key-operated SOP without CUSOP (513
connected to P1 of a modified CHFD 684

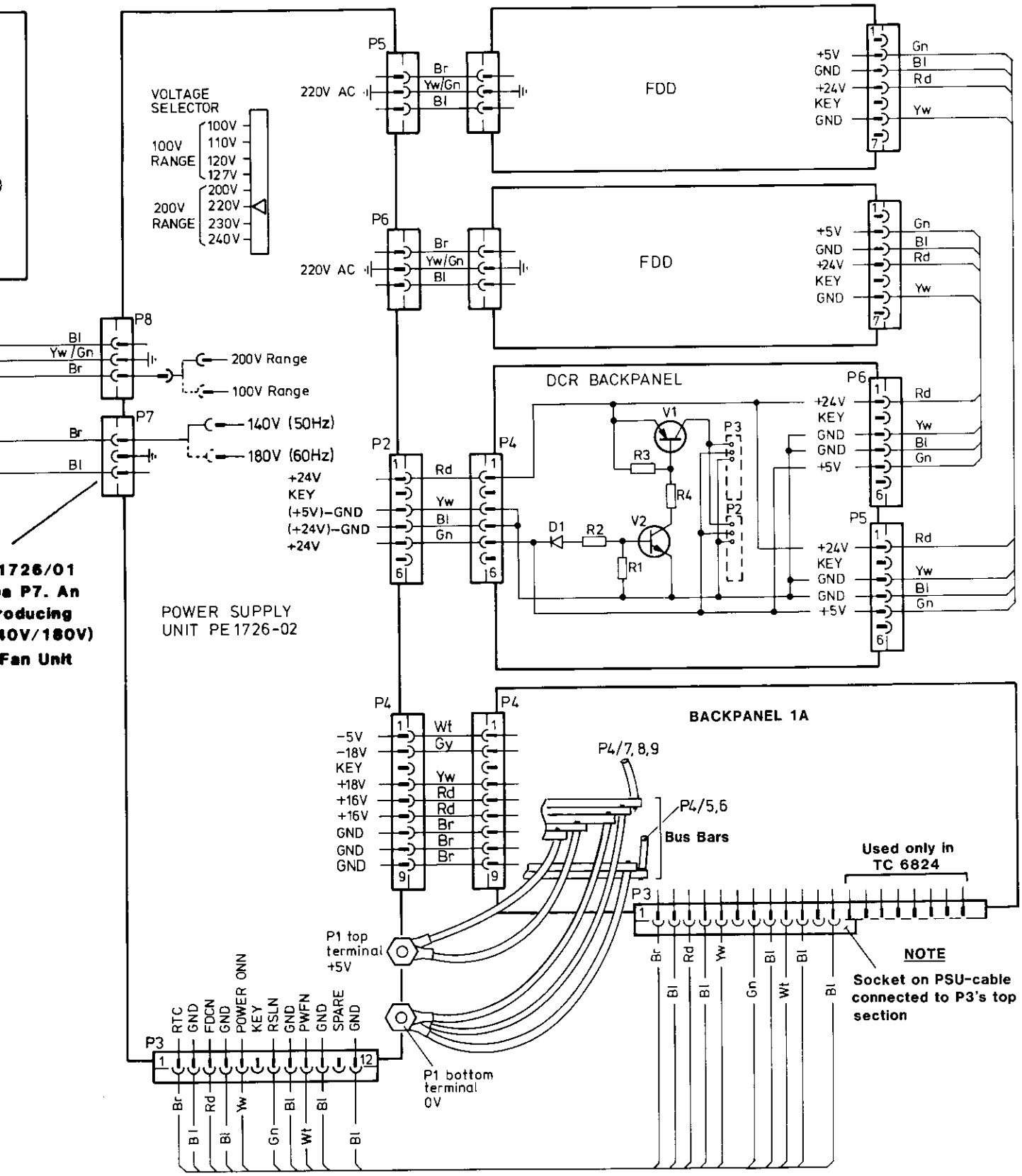
b) a key-operated SOP with CUSOP (5131


ON LOCK
REMOTE
Panel's Rotary Switch
FDD 1
FDD 2
Data
Data
cable
for TC 6824
SWITCH
HE COM-
SE
Possible U-link for permanent ON condition (service facility)
ON LOCK
P1A
ON
ST. BY
PSONN
PSOFN
To PSU via P4 and backpanel 1A
REMOTE
P1B
ON
ST. BY
To P7 on backpanel 1A (6824 only)
CUSOP
PANEL
BACKPANEL 1C
RACK POS. 10
(CHFD 6849)
P4
P8
P11
For remote IPL controller (option)
P3
P10
For optional FPP
For external FRCP
P9
EXTENSION PANEL
To CUSOP/P1
Flex strip
P1
ON-indicator controlled by:
PSU
+5V supply
P3
P7
6824 only, to SOP/P4 (PANEL)
BACKPANEL 1A (2-layer type)
P2
To PSU/P3 (6814),* PSU/P4 (6824)
Ground wire
P2
V24 interface for CTW
Fitted only when equipped with SOP 5131 193 83300
To CUSOP/P2
Extension cables to EXU
BACK-PANEL 1B
To SOP/P2 (PANEL)
NOTE!
SOP cables are to be top oriented on panel plugs
6824 only, to SOP/P4 (PANEL)
To CUSOP/P4
Flat Cable
P8
P1
P5
P9
P7
P3
To CUSOP/P1
To PSU/P3 (6814),* PSU/P4 (6824)
BACKPANEL 1A (multilayer type)
P6
P2
To CUSOP/P2
Ground wire
Extension cables to EXU
*Socket top oriented on backpanel plug!



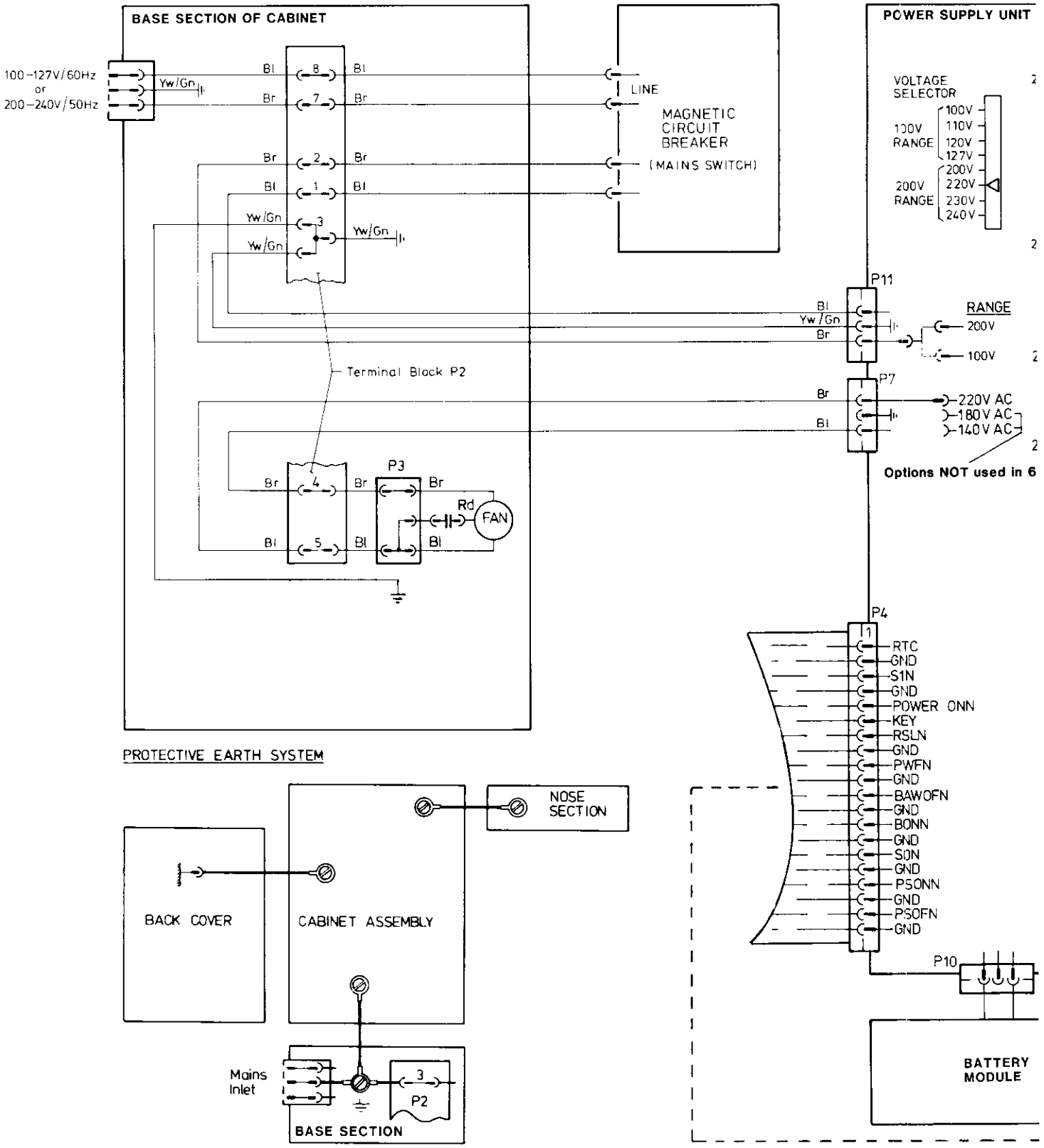
PROTECTIVE EARTH SYSTEM

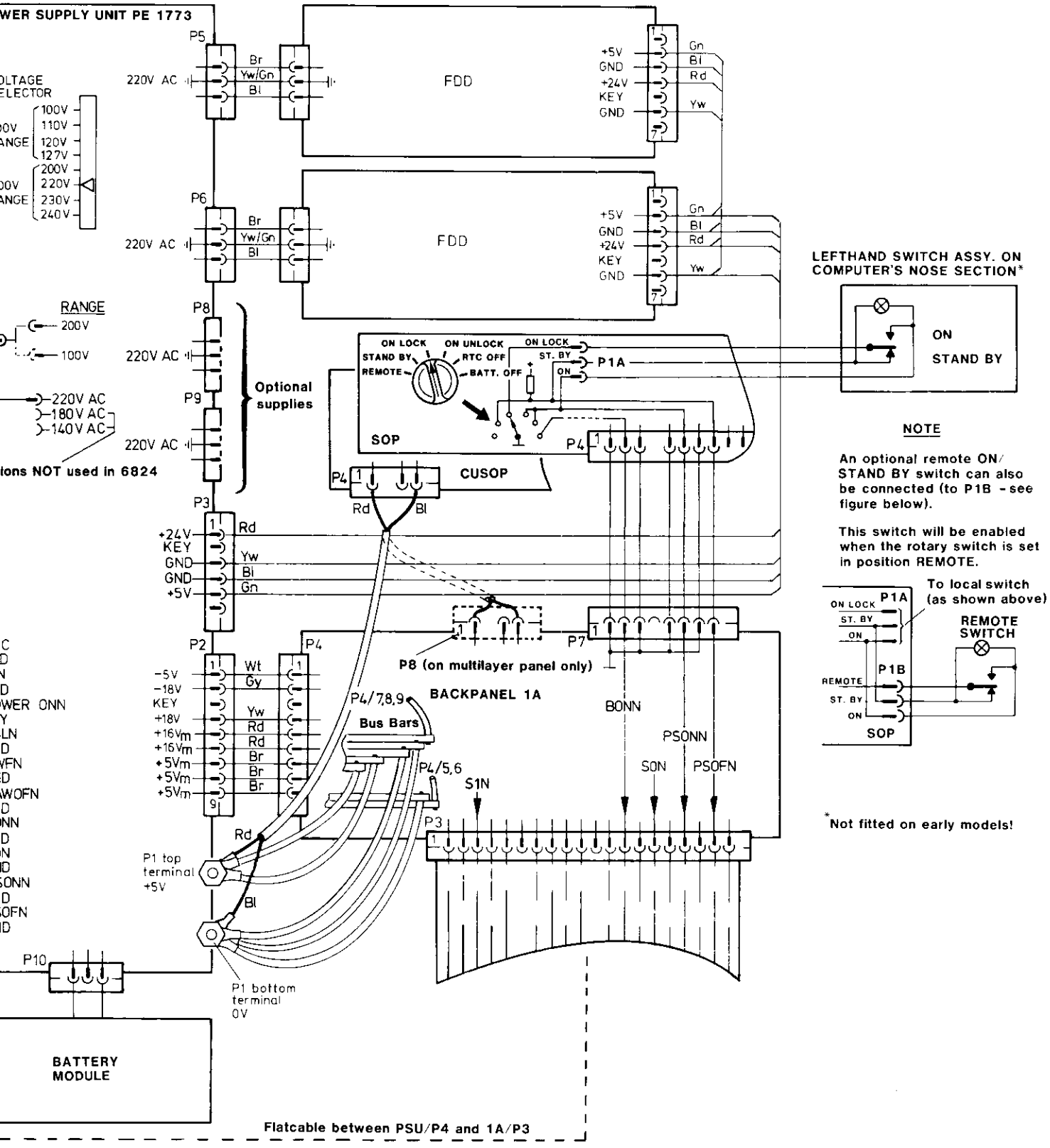




1726/01
e P7. An
roducing
40V/180V)
Fan Unit

to the
TC 6824


BASE SECTION OF CABINET
POWER SUPPLY UNIT
100–127V/60Hz
or
200–240V/50Hz
Yw/Gn
Bl
Br
LINE
MAGNETIC
CIRCUIT
BREAKER
(MAINS SWITCH)
VOLTAGE
SELECTOR
100V
RANGE
110V
120V
127V
200V
RANGE
200V
220V
230V
240V
P11
RANGE
200V
100V
Terminal Block P2
P7
220V AC
180V AC
140V AC
Options NOT used in 6
P3
Rd
FAN
P4
RTC
GND
S1N
GND
POWER ONN
KEY
RSLN
GND
PWFN
GND
BAWOFN
GND
BONN
GND
SON
GND
PSONN
GND
PSOFN
GND
P10
BATTERY
MODULE
PROTECTIVE EARTH SYSTEM
NOSE
SECTION
BACK COVER
CABINET ASSEMBLY
Mains
Inlet
P2
BASE SECTION


WER SUPPLY UNIT PE 1773
P5
P6
220V AC
Br
Yw/Gn
Bl
FDD
+5V
GND
+24V
KEY
GND
Gn
Bl
Rd
Yw
LEFTHAND SWITCH ASSY. ON COMPUTER'S NOSE SECTION*
ON
STAND BY
ON LOCK
STAND BY
REMOTE
ON UNLOCK
RTC OFF
BATT. OFF
ST. BY
ON
P1A
SOP
CUSOP
P4
P8
P9
Optional supplies
RANGE
200V
100V
220V AC
180V AC
140V AC
tions NOT used in 6824
P3
P2
Rd
Yw
Bl
Gn
Wt
Gy
-5V
-18V
KEY
+18V
+16Vm
+16Vm
+5Vm
+5Vm
+5Vm
P4/7,8,9
Bus Bars
BACKPANEL 1A
P8 (on multilayer panel only)
P7
BONN
PSONN
SON
PSOFN
P4/5,6
S1N
P1 top terminal +5V
P1 bottom terminal 0V
P10
BATTERY MODULE
Flatcable between PSU/P4 and 1A/P3
NOTE
An optional remote ON/ STAND BY switch can also be connected (to P1B - see figure below).
This switch will be enabled when the rotary switch is set in position REMOTE.
To local switch (as shown above)
REMOTE SWITCH
*Not fitted on early models!