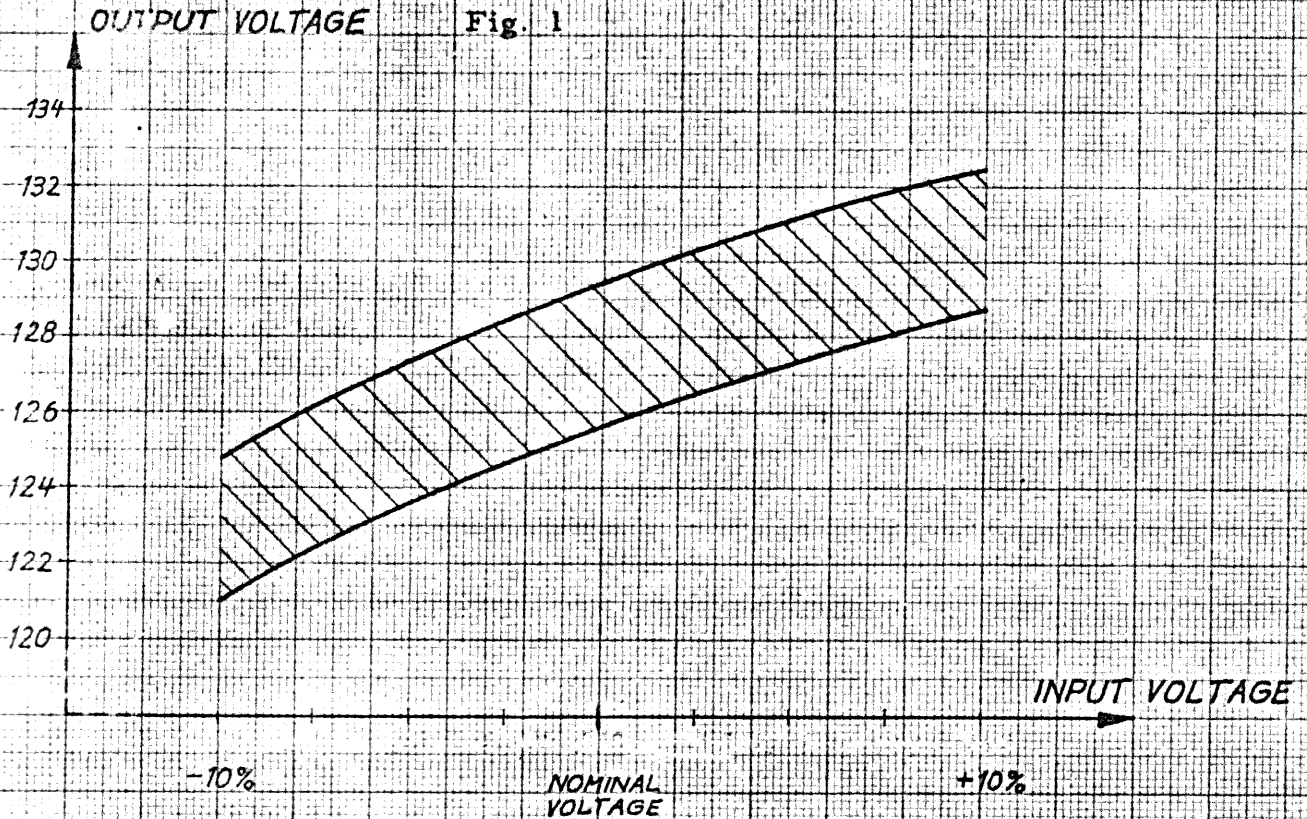


## FERRO RESONANT REGULATOR ADJUSTMENT



For correct operation of the SMS-DC-Power Supplies the ferro-resonant-regulators have to be adjusted as follows:

Measure the input voltage and select the proper input tap according to your line voltage (refer to 1402 Wiring Diagram Sect. 19B).\*

Measure the output voltage and select the secondary tap as to set the output voltage to a value within the shaded area of fig. 1.

Examples: Input voltage : 220V, selected tap 220V

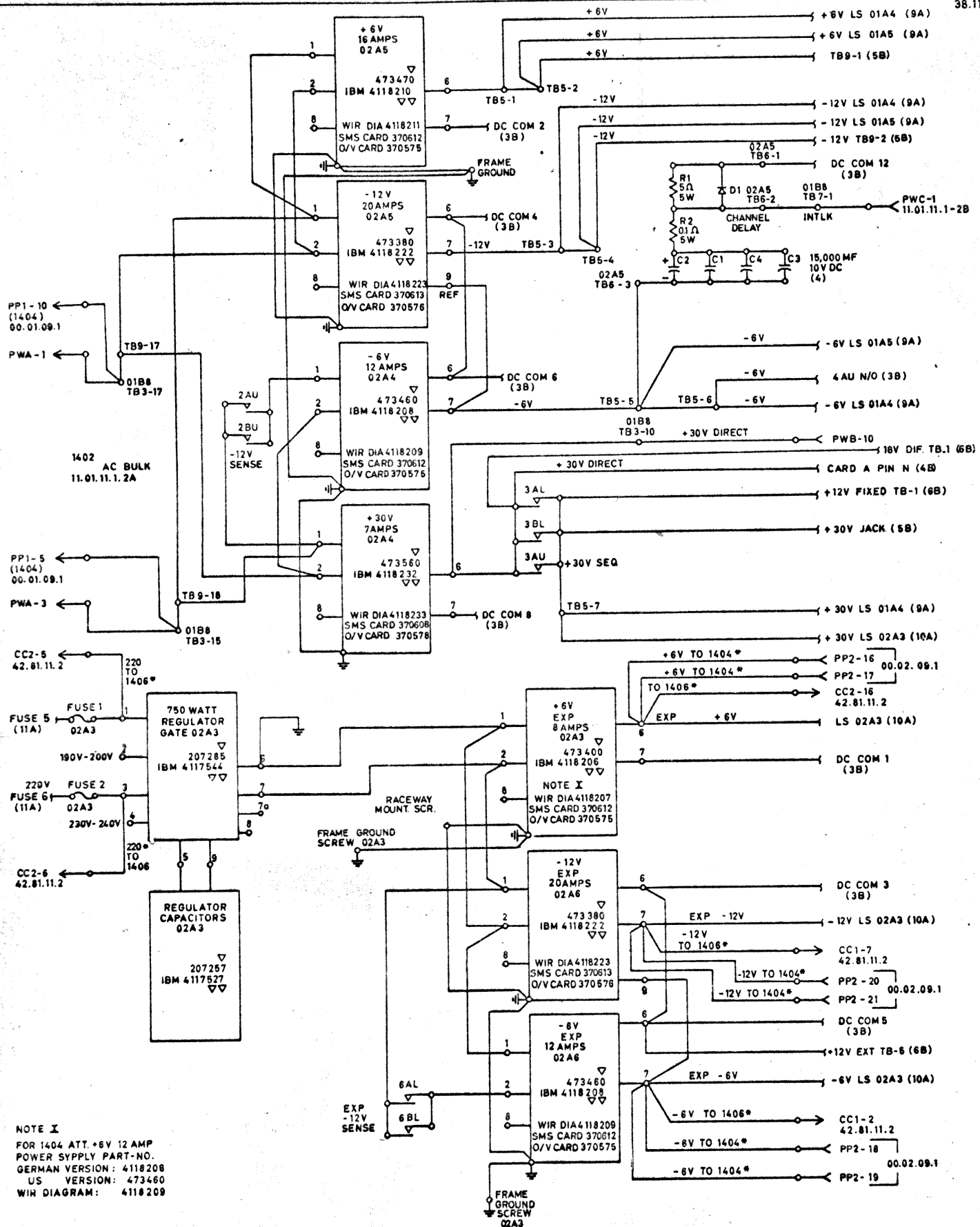
Output voltage to be 125,6 - 129,3

Input voltage : 225V, selected tap 220V

Output voltage to be 126,5 - 130,3

\* FOR 1401 MODEL D REFER TO WD 4 062 988 SECT. 14A



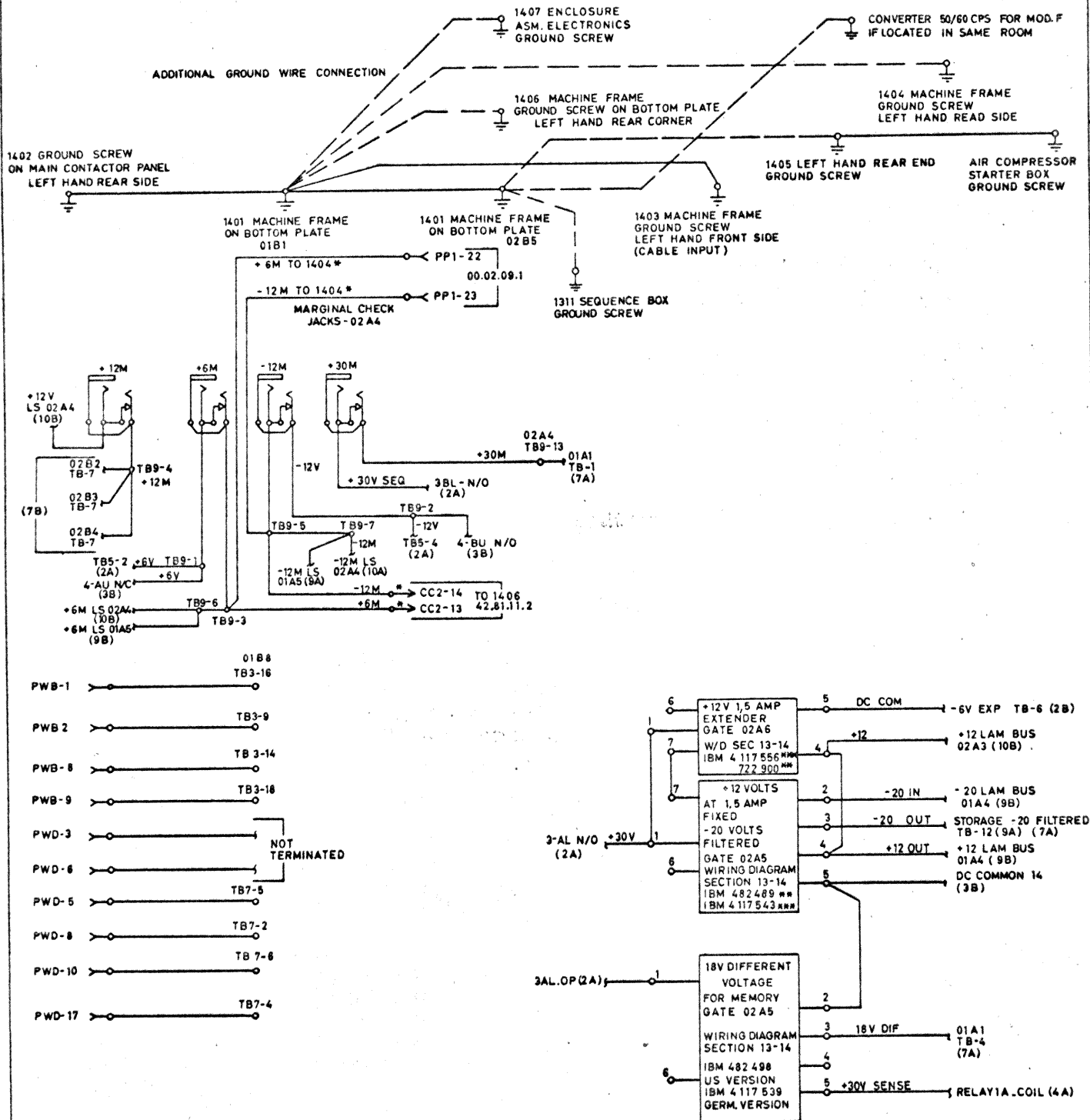


NOTE X  
 FOR 1404 ATT. +6V 12 AMP  
 POWER SUPPLY PART-NO.  
 GERMAN VERSION: 4118208  
 US VERSION: 473460  
 WIR DIAGRAM: 4118209

▽ GERMAN VERSION  
 ▽ US VERSION  
 \* OPTIONAL FEATURE WIRING

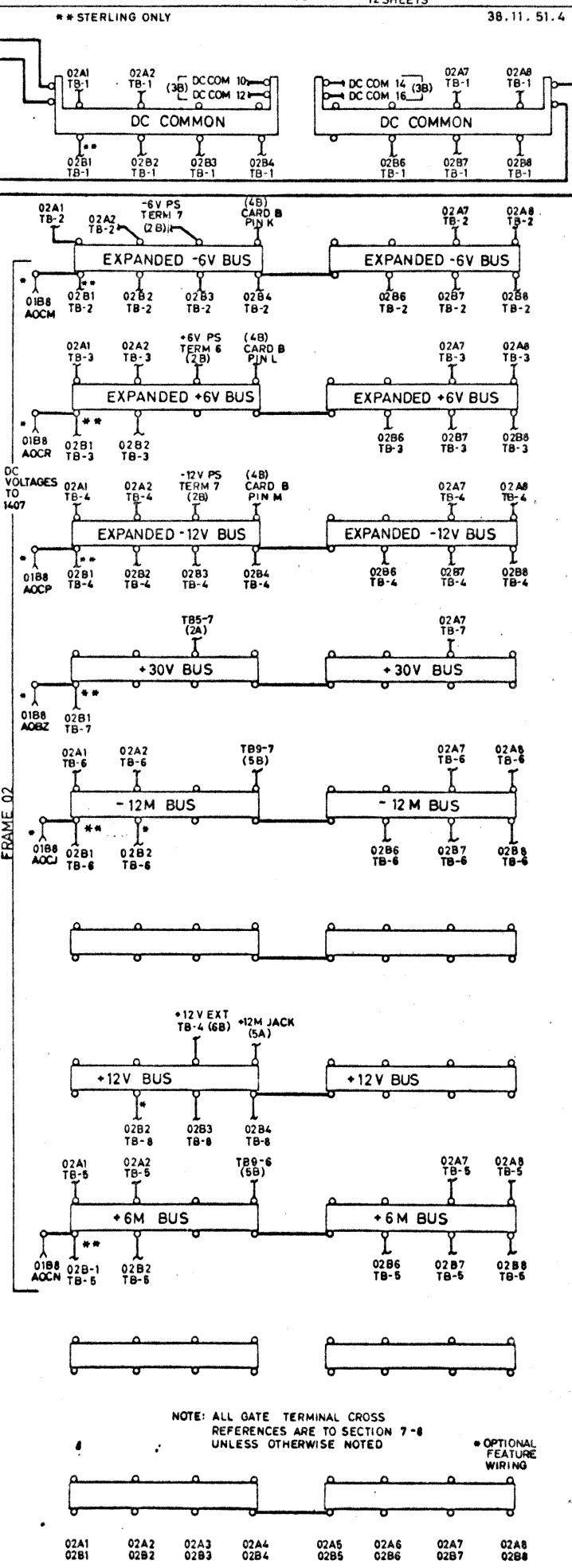
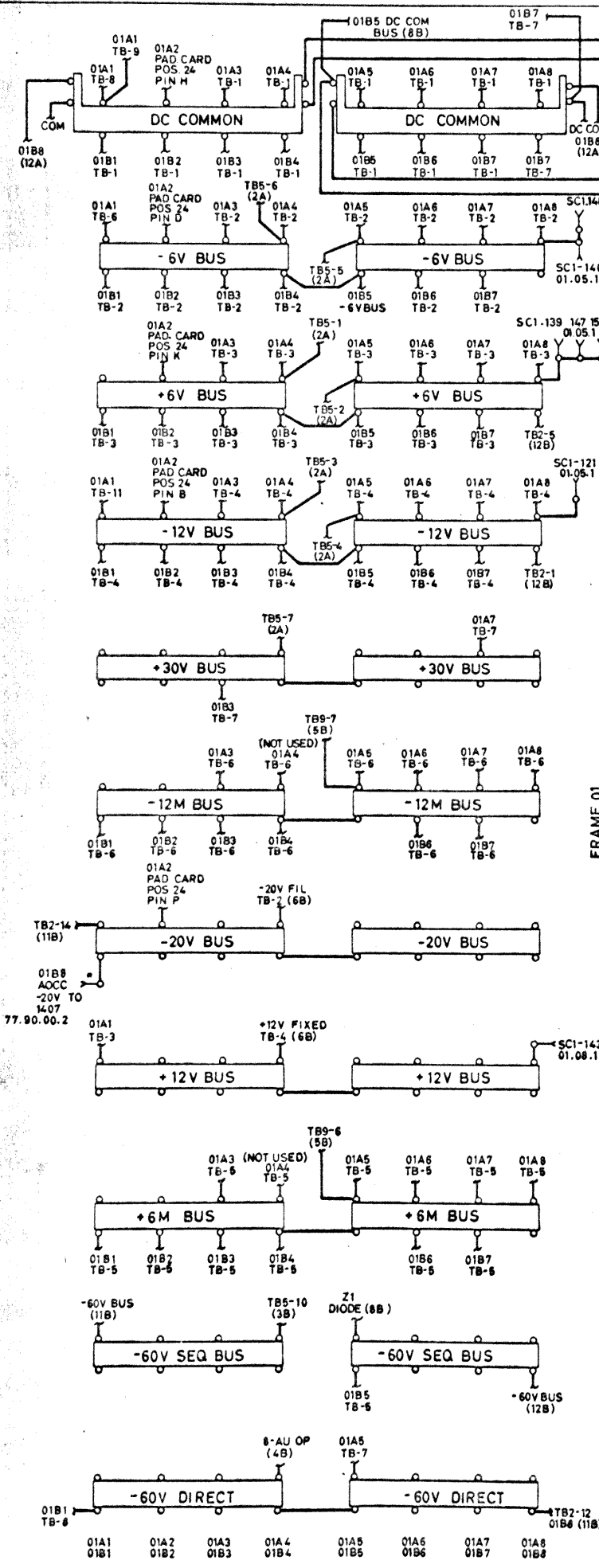


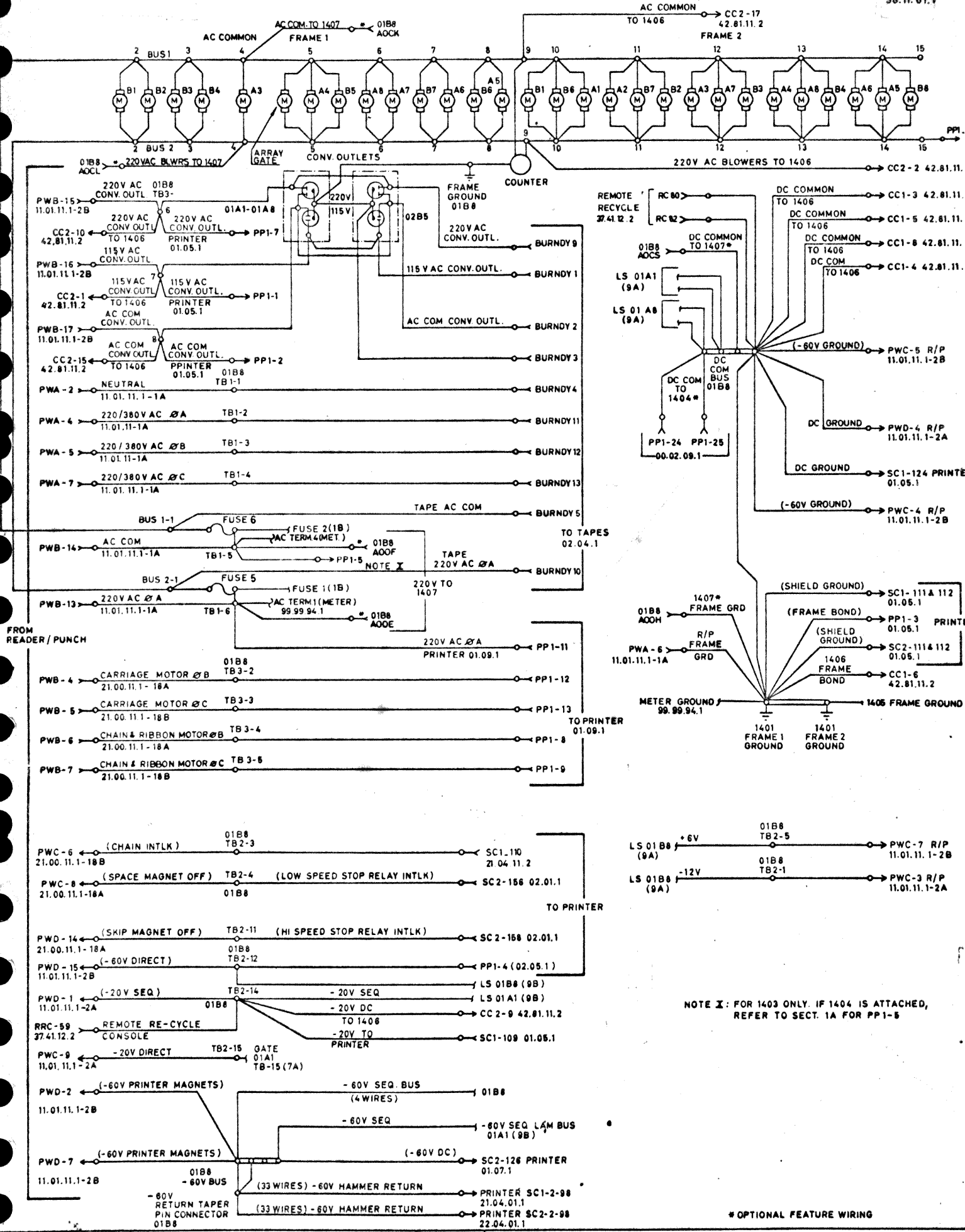




\*\* US VERSION  
 \*\*\* GERM. VERSION  
 \* OPTIONAL FEATURE WIRING





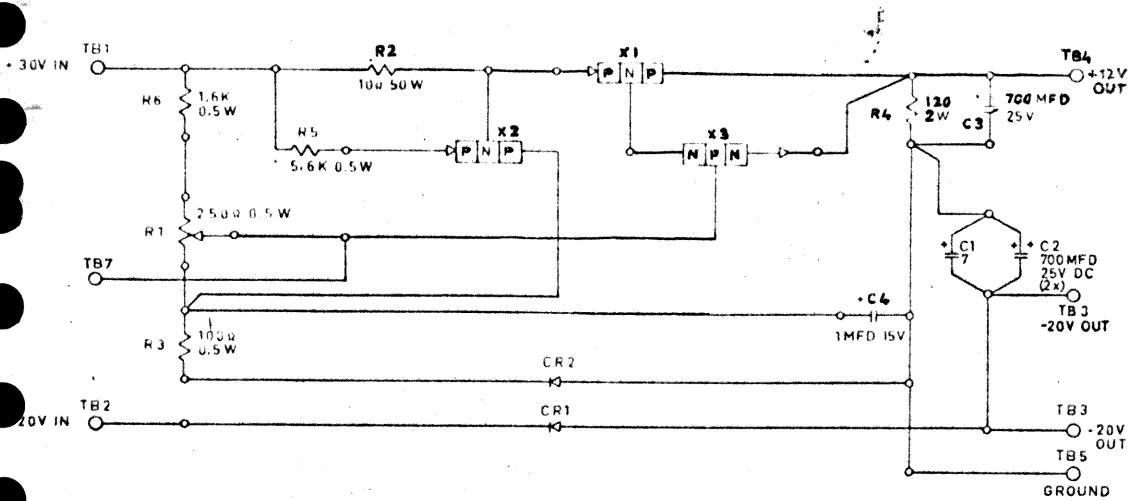


NOTE X: FOR 1403 ONLY. IF 1404 IS ATTACHED, REFER TO SECT. 1A FOR PP1-5

\* OPTIONAL FEATURE WIRING

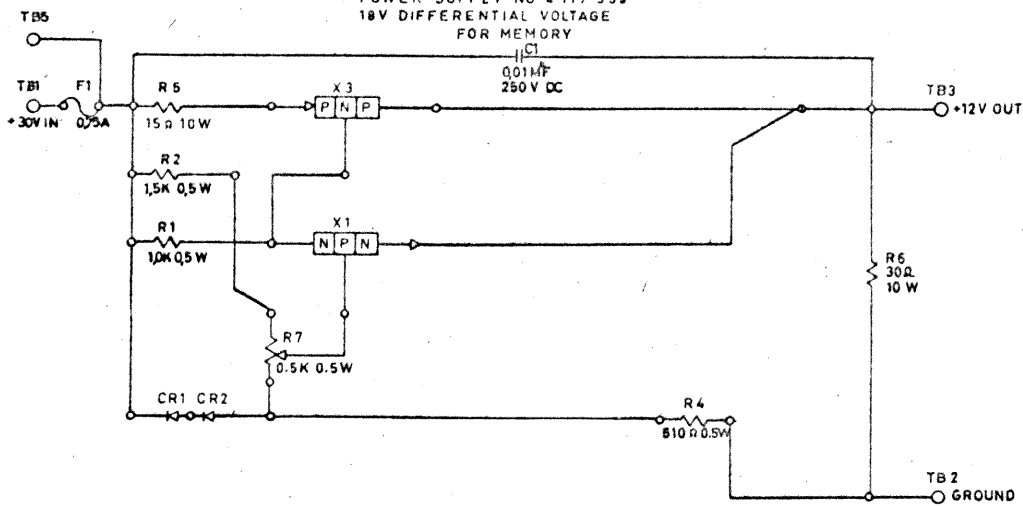


POWER SUPPLY NO 4 117 543  
 +12V AT 1.5 AMP  
 ±20V AT 80 MA'S FILTERED



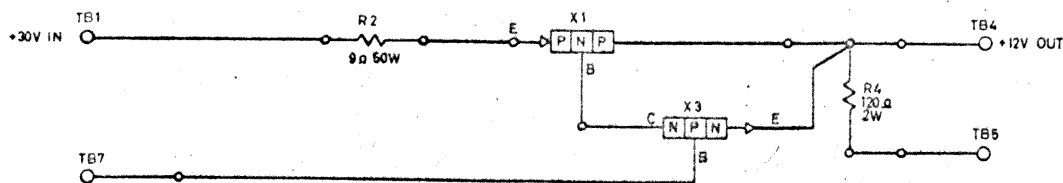
COMPONENT CHART		
CODE	DESCRIPTION	PART NO
C1	CAP 700 MFD 25V DC	4116 259
C2	CAP 700 MFD 25V DC	4116 259
CR1	DIODE (10V Zener)	4116 905
CR2	DIODE (10V Zener)	4116 905
R1	RESISTOR 250Ω 0.5W	4117 730
R2	RESISTOR 10Ω 50W	4117 698
R3	RESISTOR 100Ω 0.5W	213 636
R4	RESISTOR 120Ω 2W	4117 745
R5	RESISTOR 5.6K 0.5W	317 630
R6	RESISTOR 1.6K 0.5W	317 018
X1	TRANSISTOR POWER PNP	535441
X2	TRANSISTOR NPN	369 087
X3	TRANSISTOR NPN	209 001
C3	CAP 700 MF 25V DC	4116 259
C4	CAP 1 MF 15V DC	4116 272

POWER SUPPLY NO 4 117 539  
 18V DIFFERENTIAL VOLTAGE  
 FOR MEMORY



COMPONENT CHART		
CODE	DESCRIPTION	PART NO
C1	CAP 001 MF 250V DC	4116257
CR1	DIODE (10V Zener)	4116 905
CR2	DIODE (10V Zener)	4116 905
R1	RESISTOR 1K 0.5W	213 693
R2	RESISTOR 1.5K 0.5W	317 017
R3	RESISTOR 15Ω 10W	4117 673
R4	RESISTOR 510Ω 0.5W	317 012
R5	RESISTOR 15Ω 10W	4117 674
R6	RESISTOR 30Ω 10W	4117 674
R7	RESISTOR 0.5K 0.5W	4117 735
F1	FUSE 0.75A	111 255
X1	TRANSISTOR NPN	369 087
X3	TRANSISTOR POWER PNP	209 001

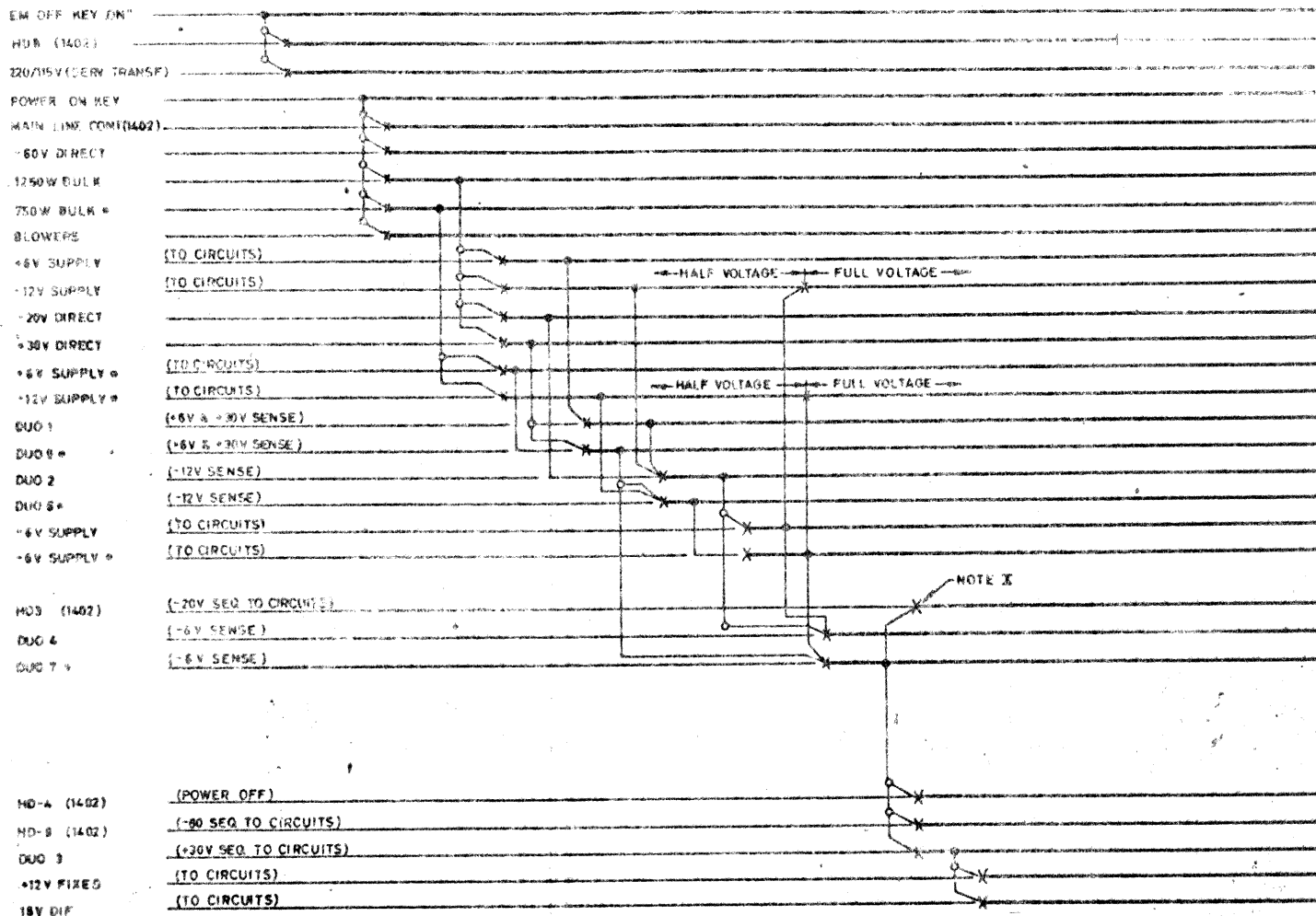
POWER SUPPLY EXTENDER 12V AT 1.5AMP  
 NO. 4 117 956



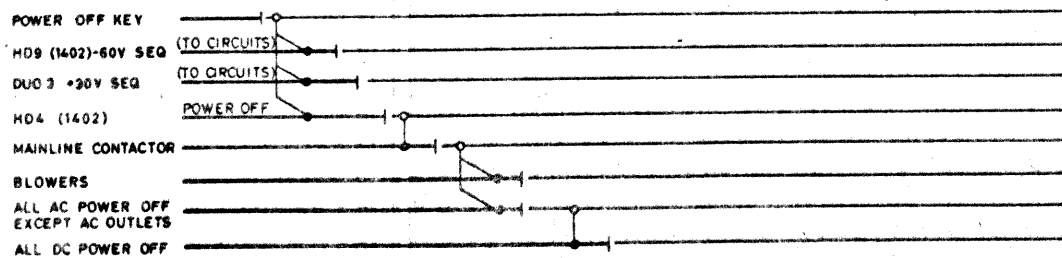
COMPONENT CHART		
CODE	DESCRIPTION	PART NO
R2	RESISTOR 9Ω 50W	4117 698
R4	RESISTOR 120Ω 2W	4117 745
X1	TRANSISTOR PNP	209 001
X3	TRANSISTOR NPN	4116 904

1401-1402  
POWER ON SEQUENCE

38.11.72.1



1401-1402  
POWER OFF SEQUENCE



NOTE X FOR SYSTEM MACHINES WITH INCREASED CORE STORAGE, THIS POINT ALSO SENSES THE 1406 +30V SENSE RELAY HD-17. FAILURE OF THE 1406 +30V SUPPLY WILL NOT ALLOW THE 1401-1402 TO SEQUENCE ANY FURTHER.

\* EXPANDED (SUPPLIES IN GATES 02A3 AND 02A8)

TB #	GATE	TERMINAL BLOCKS																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	01B8	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A
2	01B8	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B	12B
3	01B8	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A
5	02A4	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A
6	02A5	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A
7	01B8	2A	5B	4A	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B
9	02A4	5B	5B	5B	5A	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B	5B

38.11.73.1

COLOR CODING	
+30	- PINK (OR RED)
+12	- GREY
+6	- ORANGE
+6M	- TAN
-6	- BLACK
-6	- BLUE
-12	- VIOLET
-12M	- AQUA
-20	- WHITE WITH VIOLET TRACER
-60	- WHITE WITH GREEN TRACER
-60	- GREEN WITH YELLOW TRACER
+30M	- RED WITH WHITE TRACER
18V D1-F	- WHITE WITH GREY TRACER
+12M	- WHITE

R/P DRAWING	R/P CONN.	FUNCTION	1401 TERMINATION	1401 DRAWING
11.01.11.1-2A	PWA - 1	133 V.A.C BULK SUPPLY	TB3-17 01B8	38.11.11.1-1A
11.01.11.1-1A	- 2	NEUTRAL	TB1-1 01B8	38.11.61.1-11A
11.01.11.1-2A	- 3	133 V.A.C. BULK SUPPLY	TB3-15 01B8	38.11.11.1-1A
11.01.11.1-1A	- 4	220/380VAC Ø A TAPE DRIVE	TB1-2 01B8	38.11.61.1-11A
11.01.11.1-1A	- 4	220/380VAC Ø B TAPE DRIVE	TB1-3 01B8	38.11.61.1-11A
11.01.11.1-1A	- 6	Ø A FRAME GROUND	FRAME 1 01B8	38.11.61.1-11A
11.01.11.1-1A	- 7	220/380VAC Ø C TAPE DRIVE	TB1-4 01B8	38.11.61.1-11A
11.01.11.1-2B	- 8	24V AC COMMON	TB3-1 01B8	38.11.21.1-3A
11.01.11.1-2B	- 8	SPARE	TB3-16 01B8	38.11.31.1-5B
11.01.11.1-1A	- 2	SPARE	TB3-9 01B8	38.11.31.1-5B
11.01.11.1-1A	- 3	EMERGENCY STOP	TB2-7 01B8	38.11.21.1-3A
21.00.11.1-18A	- 4	CARRIAGE MOTOR 220/380VAC	TB3-2 01B8	38.11.61.1-11B
21.00.11.1-18B	- 4	CARRIAGE MOTOR 220/380VAC	TB3-3 01B8	38.11.61.1-11B
21.00.11.1-18A	- 5	CHAIN & RIB MOTOR 220/380 VAC	TB3-4 01B8	38.11.61.1-11B
21.00.11.1-18B	- 5	CHAIN & RIB MOTOR 220/380 VAC	TB3-5 01B8	38.11.61.1-11B
21.00.11.1-18B	- 8	SPARE	TB3-14 01B8	38.11.31.1-5B
21.00.11.1-18B	- 9	SPARE	TB3-18 01B8	38.11.31.1-5B
11.01.11.1-1A	- 10	+30V DIRECT	TB3-10 01B8	38.11.11.1-2A
11.01.11.1-1A	- 11	POWER ON SWITCH	TB3-11 01B8	38.11.21.1-3A
11.01.11.1-1A	- 12	POWER ON SWITCH	TB3-12 01B8	38.11.21.1-3A
44.01.11.1-1A	- 13	220VAC Ø A	TB1-5 01B8	38.11.61.1-11A
11.01.11.1-1A	- 14	AC COMMON	TB1-5 01B8	38.11.61.1-11A
11.01.11.1-2B	- 15	220V COM. OUTL.	TB3-6 01B8	38.11.61.1-11A
11.01.11.1-2B	- 16	115VAC CONV. OUTL.	TB3-7 01B8	38.11.61.1-11A
11.01.11.1-2B	- 17	AC COMMON CONV. OUTL.	TB3-8 01B8	38.11.61.1411A
11.01.11.1-1A	- 1	5 V.D.C FILTER DELAY	TB2-1 01B8	38.11.21.1-3A
21.00.11.1-17A	- 2	ØCV CTRLED A SEQ-C.R.P	TB2-2 01B8	38.11.21.1-3A
11.01.11.1-2A	- 3	-12 VOLTS DC	TB2-1 01B8	38.11.61.1-11A
11.01.11.1-2B	- 4	-60V DC COMMON GROUND	GND BUS 01B8	38.11.61.1-12A
11.01.11.1-2B	- 5	-60V DC COMMON GROUND	GND BUS 01B8	38.11.61.1-12A
21.00.11.1-18B	- 6	CHAIN INTLK	TB2-5 01B8	38.11.61.1-11B
11.01.11.1-2B	- 7	+6 VOLTS DC	TB2-5 01B8	38.11.61.1-11B
21.00.11.1-18A	- 8	SPACE MAGNET OFF	TB2-5 01B8	38.11.61.1-11B
11.01.11.1-2A	- 9	-20V DIRECT	TB2-15 01B8	38.11.61.1-11B
11.01.11.1-2A	- 1	20V SEQ	TB2-14 01B8	38.11.61.1-11B
11.01.11.1-2B	- 2	-60V SEQ PRINTER MAG	-60V BUS 01B8	38.11.61.1-11B
11.01.11.1-2A	- 3	SPARE	NONE	38.11.31.1-5B
11.01.11.1-2A	- 4	DC COMMON GROUND	GND BUS 01B8	38.11.61.1-12A
11.01.11.1-2A	- 5	SPARE	TB3-5 01B8	38.11.31.1-5B
11.01.11.1-2B	- 6	SPARE	NONE	38.11.31.1-5B
11.01.11.1-2B	- 7	-60V SEQ PRINTER MAG	-60V BUS 01B8	38.11.61.1-11B
11.01.11.1-2B	- 9	-20V SENSE CONTROL	TB2-16 01B8	38.11.21.1-4A
11.01.11.1-2B	- 11	POWER OFF SWITCH	TB3-3 01B8	38.11.21.1-4A
11.01.11.1-2B	- 12	PRINTER INTLK CTRL-1	TB2-9 01B8	38.11.21.1-4A
11.01.11.1-2B	- 13	PRINTER INTLK CTRL-2	TB2-10 01B8	38.11.21.1-4A
21.00.11.1-18A	- 14	SKIP MAG OFF RELAY INTLK	TB2-11 01B8	38.11.61.1-11B
11.01.11.1-2B	- 15	SPACE MAGNET	TB2-12 01B8	38.11.61.1-11B
11.01.11.1-2A	- 16	-20 VOLTS DC DIRECT	TB2-13 01B8	38.11.21.1-3A
11.01.11.1-2B	- 17	SPARE	TB7-4 01B8	38.11.31.1-5B
11.01.11.1-2B	- 10	SPARE	TB7-6 01B8	38.11.31.1-5B

1401 DRAWING	1401 TERMINATION	FUNCTION	1405 CONNECTOR	1405 DRAWING
38.11.61.1-12A	CON. OUT 02B5	115VAC CONV. OUTLET	BURNDY-1	02.04.1
38.11.61.1-12A	CON. OUT 02B5	AC COMMON CONV. OUTLET	BURNDY-2	02.04.1
38.11.61.1-12B	FRAME 02	FRAME GROUND	BURNDY-3	02.04.1
38.11.61.1-11A	TB3-1 01B8	NEUTRAL	BURNDY-4	02.04.1
38.11.61.1-12A	BUS1-1 01B8	AC COMMON	BURNDY-5	02.04.1
38.11.61.1-12A	CON. OUT 02B5	220VAC CONV. OUTL.	BURNDY-6	02.04.1
38.11.61.1-12A	TB1-2 01B8	TAPE 220V AC Ø A	BURNDY-10	02.04.1
38.11.61.1-12A	TB1-2 01B8	220/380VAC Ø A	BURNDY-11	02.04.1
38.11.61.1-12A	TB1-3 01B8	220/380VAC Ø B	BURNDY-12	02.04.1
38.11.61.1-12A	TB1-4 01B8	220/380VAC Ø C	BURNDY-13	02.04.1

1401 DRAWING	1401 TERMINATION	FUNCTION	1405 CONNECTOR	1405 DRAWING
38.11.21.1-3A	C2-49 02B5	1405 EMER OFF CONTROL	C1-5	75.58.11.1
38.11.21.1-3A	C2-58 02B5	1405 EMER OFF CONTROL	C1-M	75.58.11.1
38.11.21.1-6A	C2-55 02B5	DC INTERLOCK	C1-M	75.58.01.1
38.11.21.1-3A	C2-62 02B5	1405 EMER OFF CONTROL 1	C1-K	75.58.11.1
38.11.21.1-3A	C2-65 02B5	1405 EMER OFF CONTROL 1	C1-L	75.58.11.1
38.11.21.1-3A	C2-70 02B5	1405-20V RETURN	C1-F	75.58.01.1
38.11.21.1-6A	C2-73 02B5	DC INTERLOCK	C1-M	75.58.01.1
38.11.21.1-3B	C2-76 02B5	1405 POWER ON	C1-D	75.58.01.1
38.11.21.1-3B	C2-79 02B5	1405 POWER ON	C1-E	75.58.01.1
38.11.21.1-3A	C2-31 02B5	405 EMER OFF CONTROL 2	C1-T	75.58.11.1
38.11.21.1-3A	C2-34 02B5	1405 EMER OFF CONTROL 2	C1-U	75.58.11.1

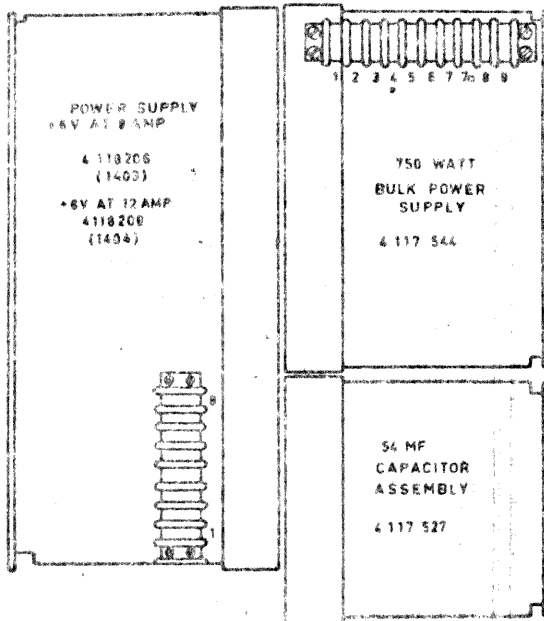
1401 DRAWING	1401 TERMINATION	FUNCTION	1406 CONNECTOR	1406 DRAWING
38.11.21.1-3A	TB2-7 01B8	CABLE INTERLOCK	CC1-1	42.81.11.2
38.11.21.1-3A	ØCV EXP TB-7	ØCV DC	CC1-2	42.81.11.2
38.11.61.1-12A	DC COM 01B8	DC COMMON	CC1-3	42.81.11.2
38.11.61.1-12A	DC COM 01B8	DC COMMON	CC1-4	42.81.11.2
38.11.61.1-12A	DC COM 01B8	DC COMMON	CC1-5	42.81.11.2
38.11.61.1-12B	1401 FRAME GND	FRAME BOND	CC1-6	42.81.11.2
38.11.11.1-2B	-12V EXP TB-7	-12V	CC1-7	42.81.11.2
38.11.61.1-12A	DC COM BUS 01B8	DC COMMON	CC1-8	42.81.11.2
38.11.61.1-11A	TB3-7 01B8	115V AC CONV. OUTLETS	CC2-1	42.81.11.2
38.11.61.1-12A	T9 AC BUS 01B8	220V AC BLOWERS	CC2-2	42.81.11.2
38.11.21.1-4A	TB5-8 02A4	+30V SEQ TO CIRCUITS	CC2-3	42.81.11.2
38.11.21.1-3A	Ø BL-OP	INTERNAL SWITCHES	CC2-4	42.81.11.2
38.11.11.1-1A	F84W RBO TB-1	AC COMMON	CC2-5	42.81.11.2
38.11.11.1-1B	F85W RBO TB-Z	220V AC	CC2-6	42.81.11.2
38.11.21.1-3A	TB1-N/O	+30V SENSE	CC2-7	42.81.11.2
38.11.61.1-11B	TB2-14 01B8	-20V DC	CC2-9	42.81.11.2
38.11.61.1-11A	TB3-6 01B8	220V AC CONV. OUTL.	CC2-10	42.81.11.2
38.11.21.1-4A	TB2-9 01B8	+30V SEQ TO CIRCUITS	CC2-11	42.81.11.2
38.11.21.1-3A	TB2-8 01B8	CABLE INTERLOCK	CC2-12	42.81.11.2
38.11.31.1-5B	TB9-3 02A4	+6M	CC2-13	42.81.11.2
38.11.31.1-5B	TB9-5 02A4	-12M	CC2-14	42.81.11.2
38.11.61.1-11A	TB3-1 01B8	AC COMMON CONV. OUTL.	CC2-15	42.81.11.2
38.11.11.1-2B	-60V EXP TB-2	ØCV DC	CC2-16	42.81.11.2
38.11.11.1-12A	T9 AC BUS 1	AC COMMON	CC2-17	42.81.11.2

1401 DRAWING	1401 TERMINATION	FUNCTION	1403 CONNECTOR	1403 DRAWING
38.11.61.1-11A	TB3-7 01B8	115V AC CONV. OUTL.	PP1-1	01.05.1
38.11.61.1-11A	TB3-8 01B8	AC COMMON CONV. OUTL.	PP1-2	01.05.1
38.11.61.1-12A	1401 FRAME	FRAME BOND	PP1-3	01.05.1
38.11.61.1-11A	TB2-12 01B8	SPACE MAGNETS -60V DC	PP1-4	01.05.1
38.11.61.1-11A	TB1-5 01B8	AC COM NUM THERM BLOWER	PP1-5	01.05.1
38.11.61.1-12A	BUS2-3 01B8	220V NUM THERM BLOWER	PP1-6	01.05.1
38.11.61.1-11A	TB3-6 01B8	220V AC CONV. OUTL.	PP1-7	01.05.1
38.11.61.1-11B	TB3-4 01B8	CHAIN & RIB. M-220/380VAC ØB	PP1-8	01.05.1
38.11.61.1-11B	TB3-5 01B8	CHAIN & RIB. M-220/380VAC ØC	PP1-9	01.05.1
38.11.61.1-11B	TB3-6 01B8	220/380 VAC ØA	PP1-10	01.05.1
38.11.61.1-11B	TB3-2 01B8	220/380 VAC CARR. MOTOR ØB	PP1-11	01.05.1
38.11.61.1-11B	TB3-3 01B8	220/380 VAC CARR. MOTOR ØC	PP1-12	01.05.1
38.11.61.1-11B	ØV RET 01B8	-60V HAMMER RETURN	PP1-13	01.05.1
38.11.61.1-11B	TB2-3 01B8	SPARE	SC1-2-9B (BY 3)	22.04.01.1
38.11.61.1-12A	1401 FRAME	SHIELD GROUND	SC1-111 & 112	01.05.1
38.11.61.1-12A	LAM BUS 01A8	-12 VOLTS DC	SC1-121	01.05.1
38.11.61.1-12A	GND BUS 01B8	DC COMMON GROUND	SC1-124	01.05.1
38.11.21.1-4A	TB2-9 01B8	PRINTER INTLK CTRL-1	SC1-132	01.05.1
38.11.21.1-4A	TB2-2 01B8	CHAIN MOTOR RELAY	SC1-133	01.05.1
38.11.51.1-9A	LAM BUS 01A8	+6 VOLTS DC	SC1-135	01.05.1
38.11.51.1-9A	LAM BUS 01A8	-6 VOLTS DC	SC1-140	01.05.1
38.11.51.1-9B	LAM BUS 01A8	+12 VOLTS DC	SC1-143	01.05.1
38.11.61.1-11B	ØV RET 01B8	-60V HAMMER RETURN	SC2-2-9B (BY 3)	22.04.01.1
38.11.61.1-12B	1401 FRAME	SHIELD GROUND	SC2-111 & 112	01.05.1
38.11.21.1-4A	TB2-10 01B8	PRINTER INTLK CTRL-2	SC2-125	01.05.1
38.11.61.1-11B	ØV BUS 01B8	-60V DC CONTROLLED	SC2-126	01.05.1
38.11.61.1-11B	TB2-4 01B8	LOW SPEED STOP INTLK	SC2-156	02.01.1
38.11.61.1-11B	TB2-11 01B8	HI SPEED STOP INTLK	SC2-158	02.01.1
38.11.61.1-11B	TB2-14 01B8	-20V SEQ	SC1-109	01.05.1

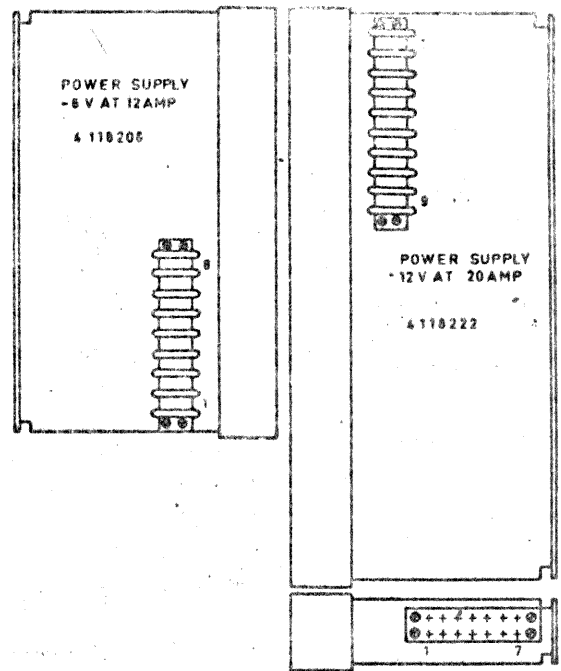
1401 DRAWING	1401 TERMINATION	FUNCTION	1407 CONNECTOR
38.11.61.1-11B	TB1-6	220V AC	01B8-AOCE
38.11.61.1-11A	TB1-5	AC COMMON	01B8-AOOF
38.11.61.1-12B	FRAME 01B8	GND	01B8-AOOF
38.11.51.1-10A	LS 02B1	+30 VDC	01B8-AOCE
38.11.51.1-9B	LS 01B1	-20 VDC	01B8-AOCE
38.11.61.1-11A	BUS2-4	AC COMMON	01B8-AOOF
38.11.51.1-10B	LS 02B1	-12VDC	01B8-AOCP
38.11.51.1-10A	LS 02B1	+6 VDC	01B8-AOOF
38.11.51.1-10B	LS 02B1	+6 VDC	01B8-AOCP
38.11.51.1-10A	LS 02B1	+6 VDC	01B8-AOCP
38.11.51.1-12A	DC COM BUS 01B8	DC COM	01B8-AOOF
38.11.61.1-11A	BUS2-4	220V AC BLWRS	01B8-AOCL

CODE	DESCRIPTION	LOC	PART NO
D1	DIODE	2A	4116760
SD1	SUPPRESSION DIODE	4A	480550
SD2	SUPPRESSION DIODE		

POWER SUPPLY GATE LAYOUTS

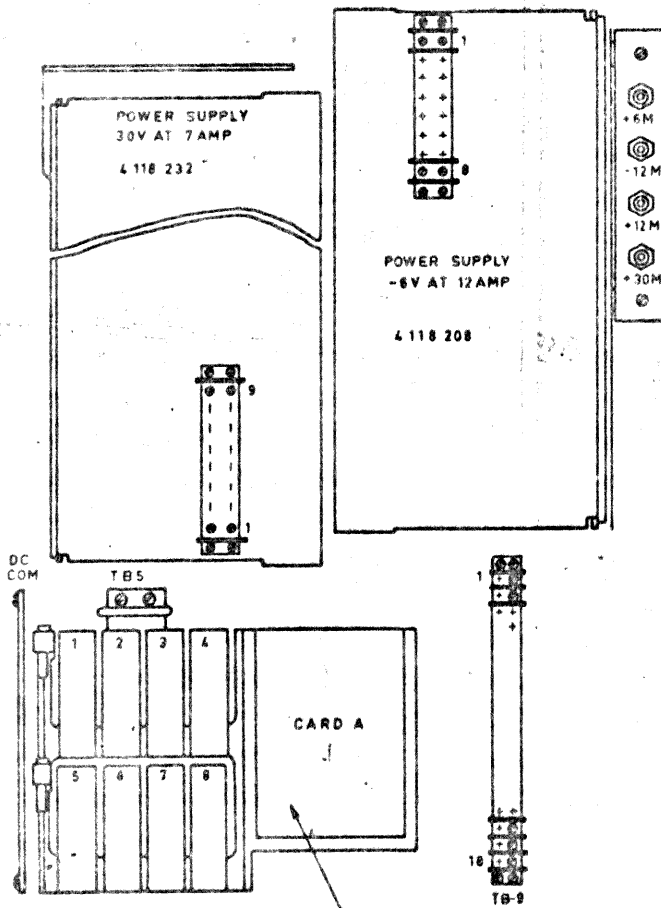


02A3

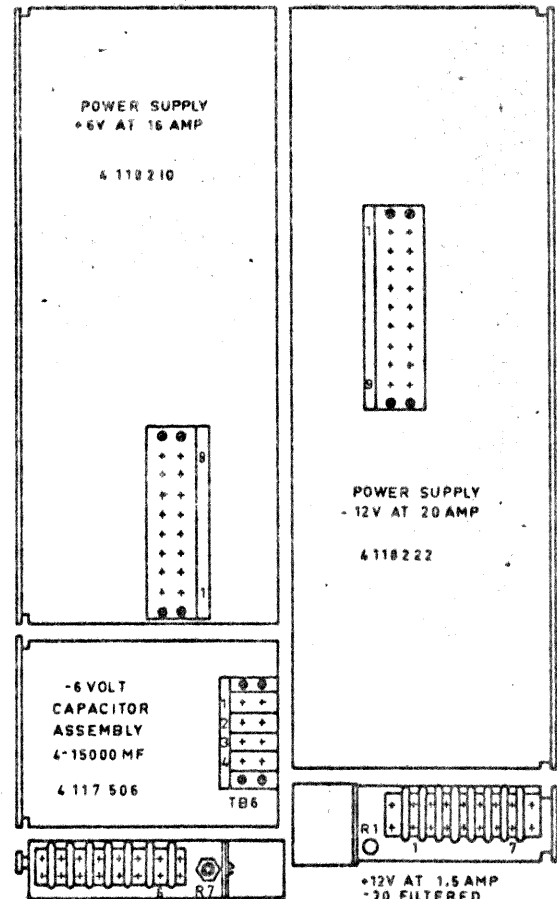


+12V 1.5 AMP EXTENDER  
IBM 4117 556 GERMAN VERSION  
722 900 US VERSION

02A6



02A4 CARD B BACK SIDE



18V DIFFERENTIAL  
VOLTAGE  
482 498 US VERSION  
4117 539 GERMAN VERSION

02A5



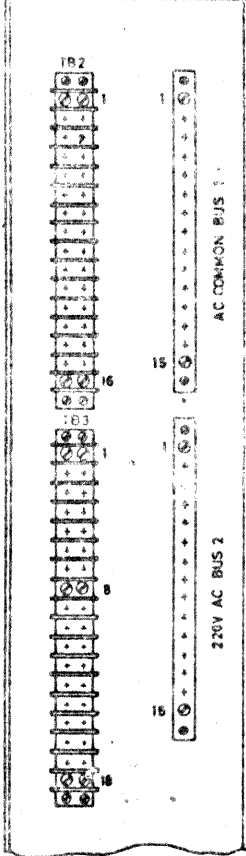
## REFERENCE CHART FOR POWER SUPPLIES

OLD POWER SUPPLIES ASM				NEW POWER SUPPLIES ASM		
50 CYCLE			60 CYCLE	50 CYCLE		60CYCLE
NAME	POWER SUPP PART N°	WIRING DIAG PART N°	POWER SUPP PART N°	POWER SUPP PART N°	WIRING DIAGR PART N°	POWER SUPP PART N°
±3V 8AMP MC	4 117 541	4 280 590	210 840	—	—	—
± 6V 8AMP	4 117 440	4 280 470	207 204	4 118 206	4 118 207	473 400
± 6V 12AMP	4 117 441	4 280 471	207 207	4 118 208	4 118 209	473 460
± 6V 16AMP	4 117 442	4 280 472	207 210	4 118 210	4 118 211	473 470
±12V 12 AMP	4 117 443	4 280 473	207 231	4 118 220	4 118 221	473 500
±12V 16AMP	4 117 532	4 280 481	207 234	4 118 240	4 118 241	473 510
±12V 20AMP	4 117 444	4 280 474	208 258	4 118 222	4 118 223	473 380
± 20V 6AMP	4 117 448	4 280 478	207 237	4 118 224	4 118 225	477 220
±30V 7AMP	4 117 542	4 280 489	210 090	4 118 232	4 118 233	473 560

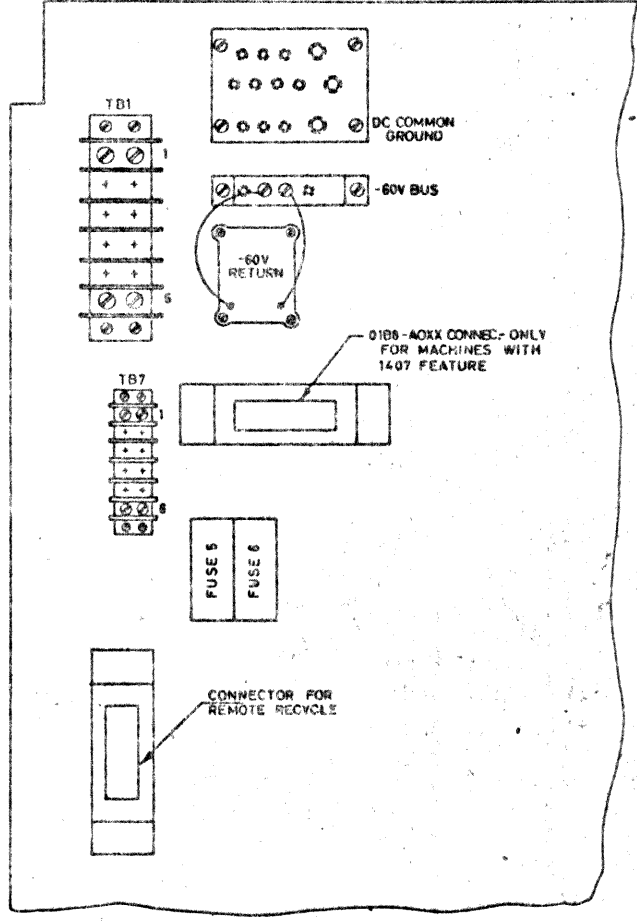
AMPLIFIER AND OVERVOLTAGE CARD				
NAME	OLD		NEW	
	AMPLIFIER CARD	O/V ASM	AMPLIFIER CARD	O/V CARD
± 3V 8 AMP MC	371656	—	—	—
± 6V 8 AMP	371656	208957	370612	370575
± 6V 12 AMP	371656	208957	370612	370575
± 6V 16 AMP	371656	208957	370612	370575
± 12V 12 AMP	371655	208960	370613	370 576
± 12V 16 AMP	371655	208960	370613	370 576
± 12V 20 AMP	371655	208960	370613	370 576
± 20V 6 AMP	371656	208972	370607	370579
± 30V 7AMP	371656	208967	370608	370578

GATE LAYOUT 01B8

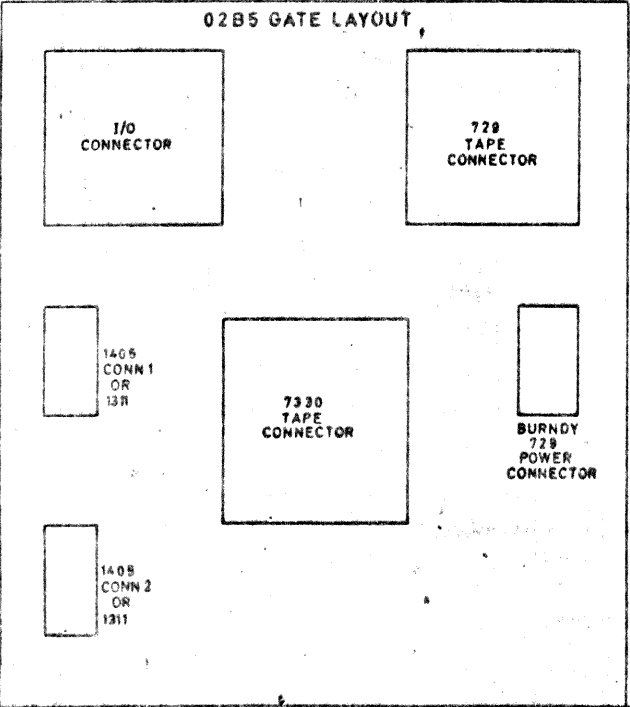
FRONT PANEL



SIDE PLATE



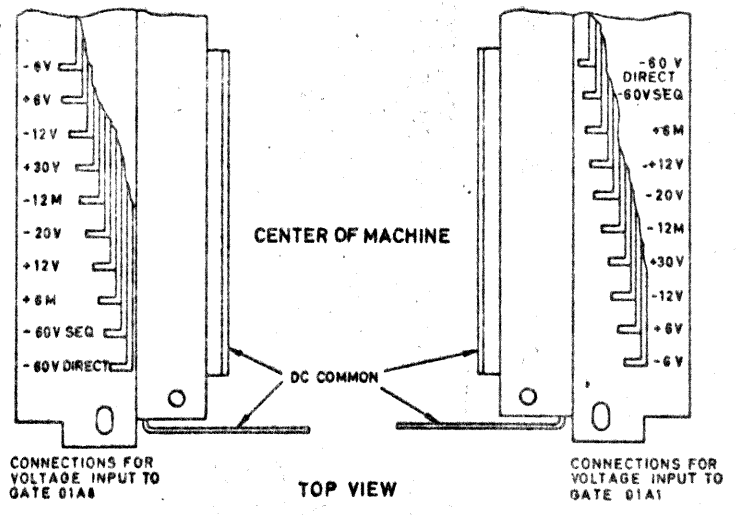
02B5 GATE LAYOUT



REAR

LAMINAR BUSSES

FRONT



CONNECTIONS FOR VOLTAGE INPUT TO GATE 01A8

CONNECTIONS FOR VOLTAGE INPUT TO GATE 01A1

XHNLIICH T-NR.480255

IBM			
NAME	WIRING DIAGRAM - POW SUPPLY		
DETAIL	MOD. C, E OR MOD. F WITH TAPES		
DESIGN		MODEL	1401-C
CHECK	IB 4.61	SCALE	
APPRO		DRAW	
		CHECK	DR. C. B. [Signature]

1401 PROCESSING UNIT  
STAGE II  
SMS POWER SUPPLY INDEX

POWER SUPPLY

RATING

SCHEMATIC

4 117 541	± 3 V AT 5 A MC	4 280 590
4 118 200	± 3 V AT 5 A MC	4 118 201
4 117 440	± 6 V AT 8 A	4 280 470
4 118 206	± 6 V AT 8 A	4 118 207
4 117 441	± 6 V AT 12 A	4 280 471
4 118 208	± 6 V AT 12 A	4 118 209
4 117 442	± 6 V AT 16 A	4 280 472
4 118 210	± 6 V AT 16 A	4 118 211
4 117 443	± 12 V AT 12 A	4 280 473
4 118 220	± 12 V AT 12 A	4 118 221
4 117 448	± 20V AT 6A	4 280 478
4 118 224	± 20V AT 6A	4 118 225
4 117 445	± 20V AT 15A	4 280 475
4 118 226	± 20V AT 15A	4 118 227
4 117 542	± 30V AT 7A	4 280 489
4 118 232	± 30V AT 7A	4 118 233
4 117 444	± 12V AT 20A	4 280 474
4 118 222	± 12V AT 20A	4 118 223
4 117 449	± 60V AT 10A	4 280 480
4 117 404	± 60V AT 20A	4 280 487

SMS O/V PROTECTION SCHEMATIC

6V SUPPLIES	208948
12V SUPPLIES	208961
30V SUPPLIES	208968

SYM	MICRO PLM	EC	CHANGE-NO TA	DATE	SYM	MICRO PLM	EC	CHANGE-NO TA	DATE
			37982E	20.8.62					

IBM			
GENERAL CHART			
FOR SMS POWER SUPPLY			
DESIGN	MODEL	1401	
DETAIL	SCALE		
CHECK	DRAW	12.7.62	
APPRO	CHECK	J. O. 62	

SIMILAR TO 723 163

4280532

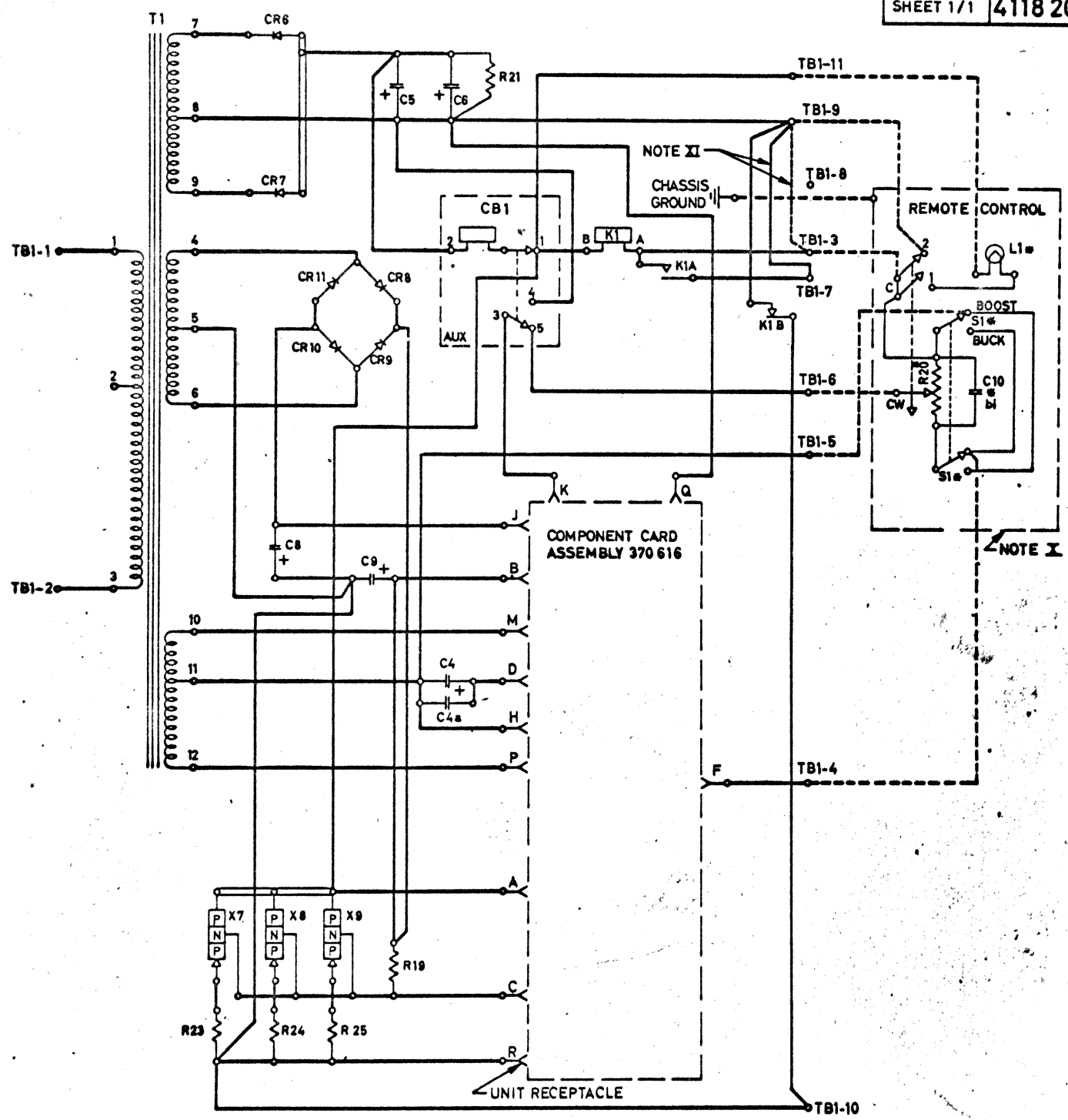
A

B

4118 201

A

B



COMPONENT CHART

CODE	DESCRIPTION	CODE	DESCRIPTION
C4+4a	CAP. 700 MFD 25V DC	R20*	RESISTOR 240 OHM 2W
C5+6	CAP. 15000 MFD 13 V DC	R21	RESISTANCE WIRE 0.1 OHM
C8+9	CAP. 700 MFD 25V DC	R23-25	RESISTANCE WIRE 0.1 OHM
C10*	CAP. 50 MFD 12V DC bipolar	S1*	
CB1	CIRCUIT BREAKER	T1	TRANSFORMER
CR6+7	DIODE	TB1	TERMINAL BLOCK
CR8-11	DIODE	X7-9	TRANSISTOR TYPE 10B
K1	RELAY	L1*	
R19	RESISTOR 510 OHM 0.5W		

**NOTE**  
**X** - REMOTE CONTROL ASSEMBLY CONSISTING OF 210 846 (POT-SWITCH ASM) AND 4116 830 (SWITCH), SUPPLIED WITH PORTABLE UNIT ONLY \* COMPONENT ON REMOTE ASSEMBLY  
**XI** - REMOVE JUMPER FOR PORTABLE APPLICATION APPLY JUMPER AS SHOWN WITH DOTTED LINE FOR SPECIAL SYSTEM REQUIREMENT.

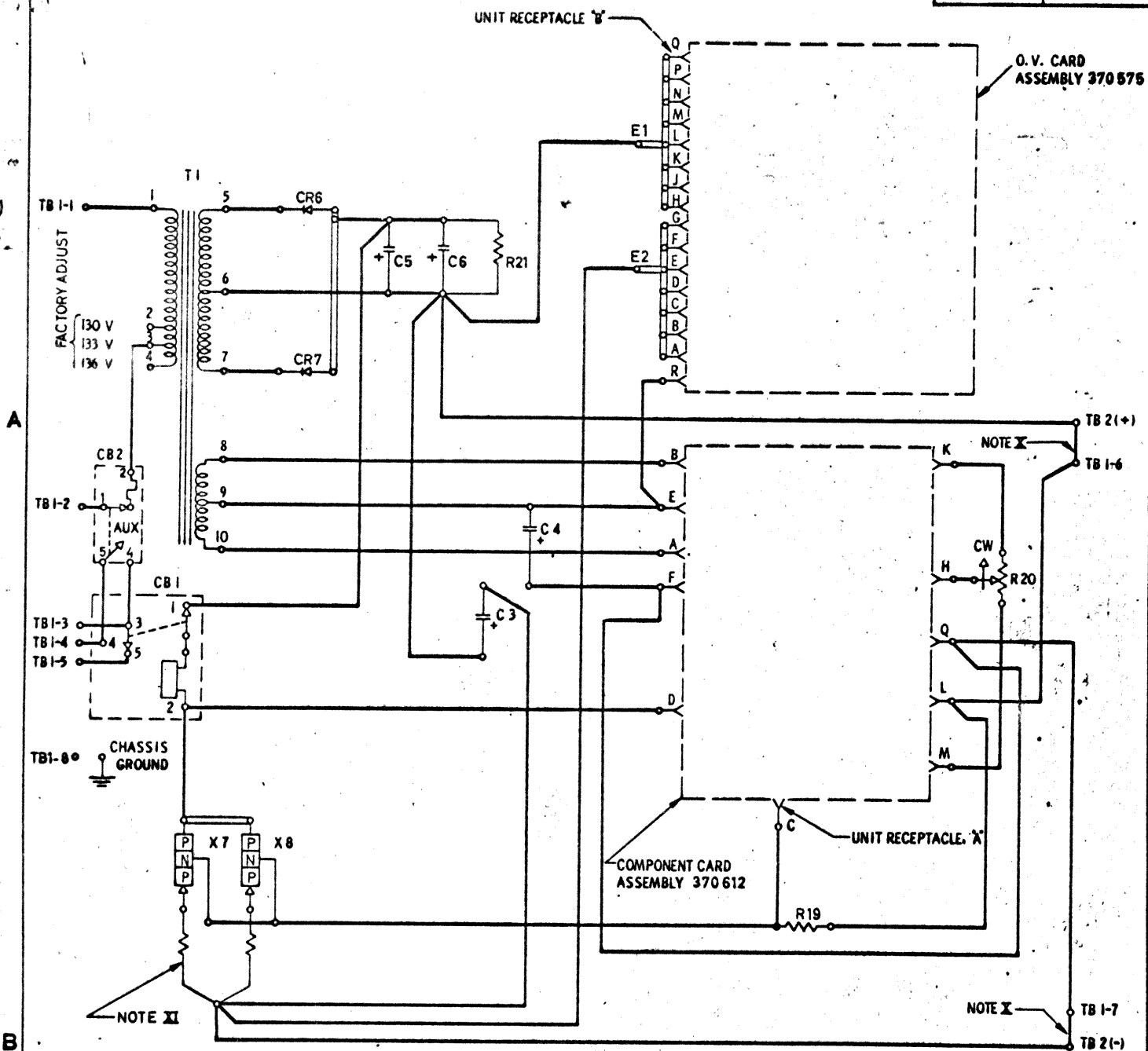
SIMILAR TO 477 281A

SYM	MICRO	EC	CHANGE-NO	DATE	SYM	MICRO	EC	CHANGE-NO	DATE
			37982 E	20.9.62					
			37982 F	26.9.62					
			1653	29.11.62					
			1774	7.3.63					
			1906	25.7.63					

IBM			
NAME WIRING DIAGRAM-POWER SUPPLY			
3V DC AT 5A MC 50 CY/s			
DESIGN	MODL	SCALE	8068
DETAIL	SCALE	DRAWN	3.7.62
CHECK	SCALE	CHECK	3.7.62
APPROV	SCALE	CHECK	3.7.62



4118207



COMPONENT CHART

CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP 8 000 MFD 12V DC	R20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP 700 MFD 25V DC	R21		RESISTOR 100 OHM 2W
C5-6		CAP 15 000 MFD 15V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T1		TRANSFORMER
CR6-7		DIODE	TB1		TERMINAL BLOCK
E1-2		BUS PLATE	TB2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-8		TRANSISTOR TYPE 10B
R19		RESISTOR 100 OHM 2W			

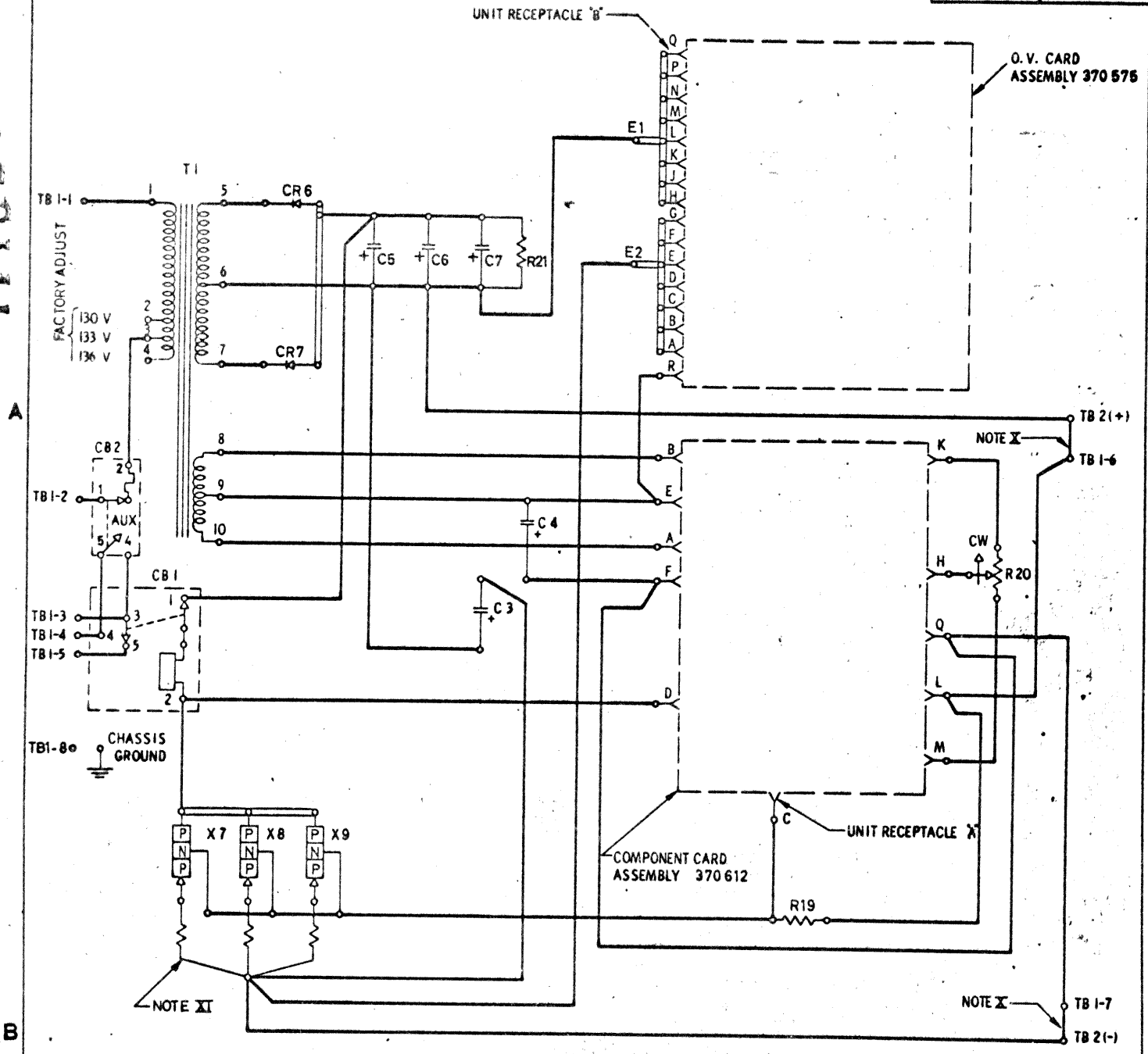
- NOTES
- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
  - XI RESISTANCE WIRE 0.1 OHM EACH (2x)

SIMILAR TO 473401C

SYM	MICRO	EC	CHANGE-NO	DATE	SYM	MICRO	EC	CHANGE-NO	DATE
	FLW		Ta			FLW		Ta	
			37982E	20.8.62					
			1774B	22.3.63					

IBM			
NAME WIRING DIAGRAM-POWER SUPPLY			
6V DC AT BA 50 CY/s			
DESIGN	SCALE	MODEL	
		8068	
DATE	SCALE		
CHECK	DRAWN	10.7.62	
APPRO	CHECK	3.8.62	

4118209



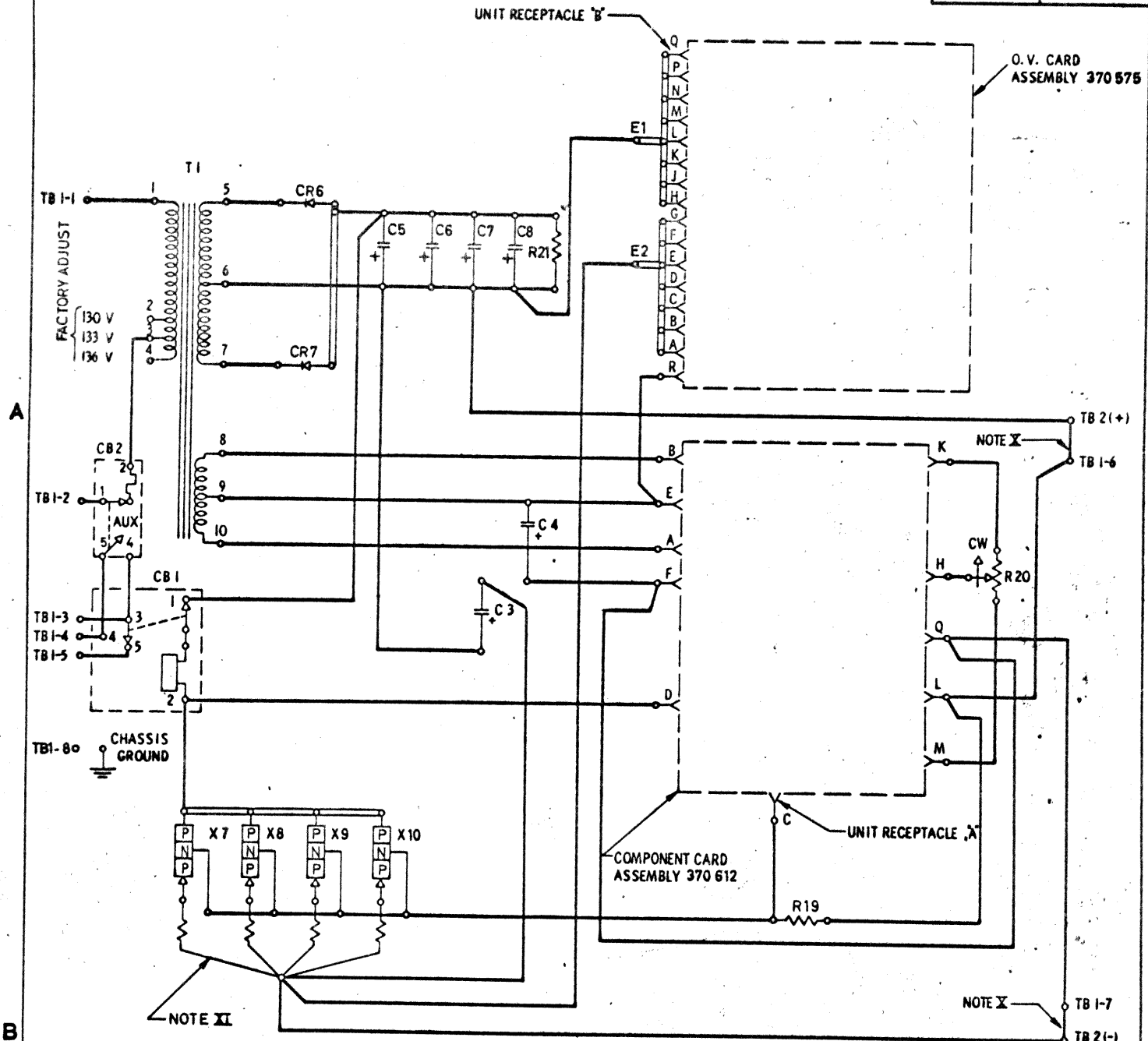
- NOTES**
- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
  - XI RESISTANCE WIRE 0.1 OHM EACH (3x)

COMPONENT CHART					
CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 8000 MFD 12V DC	R20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP. 700 MFD 25V DC	R21		RESISTOR 70 OHM 5 W
C5-7		CAP. 15 000 MFD 13V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER			
CR6-7		DIODE	T1		TRANSFORMER
E1-2		BUS PLATE	TB1		TERMINAL BLOCK
A & B		RECEPTACLE	TB2		TERMINAL BLOCK
R19		RESISTOR 100 OHM 2 W	X7-9		TRANSISTOR TYPE 108

SIMILAR TO 473 461 C

SYM	MICRO	PLM	EC	CHANGE NO	TA	DATE	SYM	MICRO	PLM	EC	CHANGE NO	TA	DATE
				97982 E		20.8.62							
				1774 B		29.3.63							

IBM			
NAME WIRING DIAGRAM-POWER SUPPLY			
6 V DC AT 12 A 50 CY/S			
DESIGN	W. JONES	NO.	8068
CHECK	DRW	DATE	1.8.62
APPROV	CHEK	DATE	3.8.62



NOTES

- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
- XI RESISTANCE WIRE 0.1 OHM EACH (4X)

COMPONENT CHART

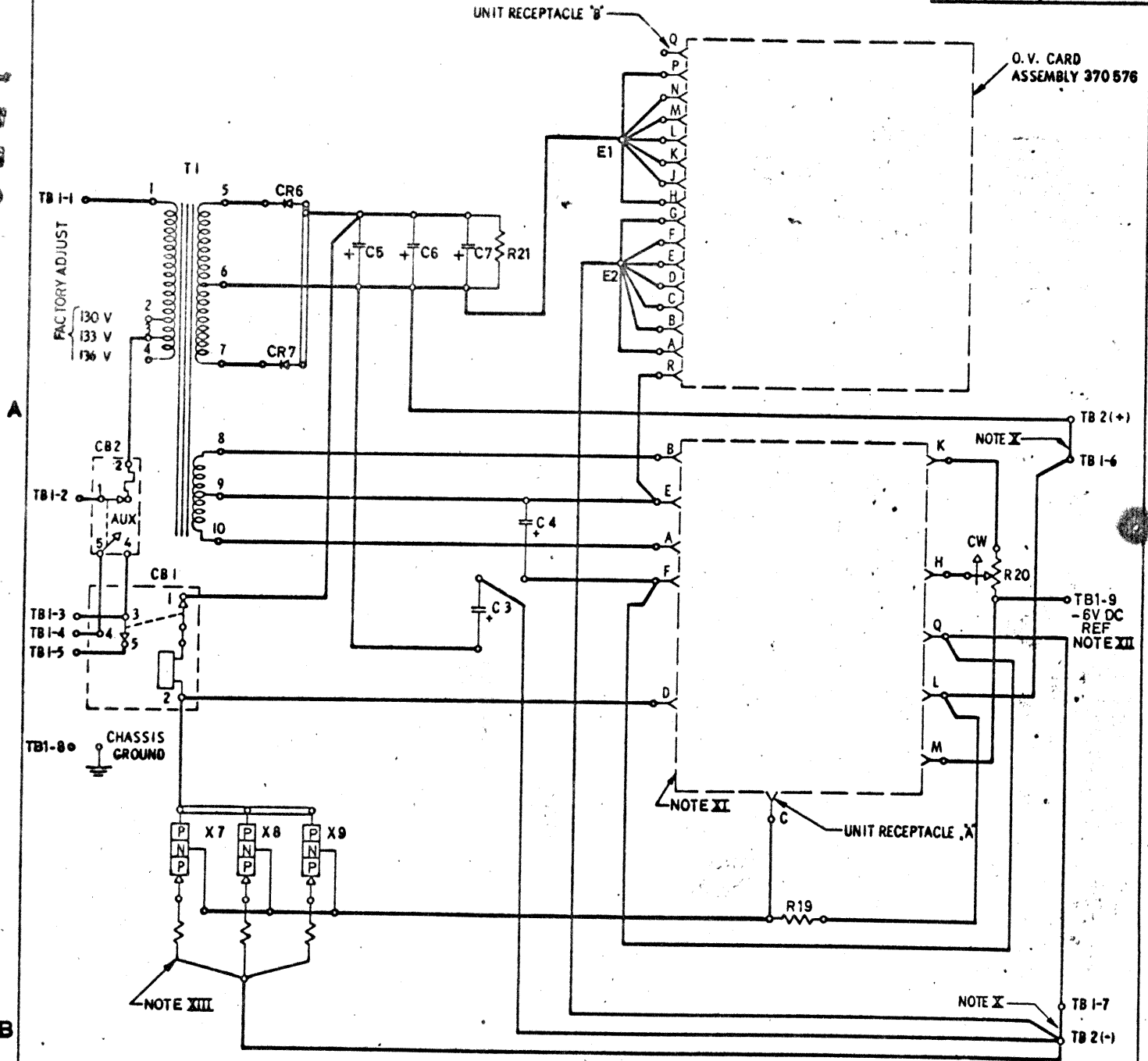
CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 8 000 MFD 12V DC	R 20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP. 5 500 MFD 20V DC	R 21		RESISTOR 50 OHM 5W
C5-8		CAP. 15 000 MFD 13V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T 1		TRANSFORMER
CR6-7		DIODE	TB1		TERMINAL BLOCK
E1-2		BUS PLATE	TB2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-10		TRANSISTOR TYPE 108
R19		RESISTOR 100 OHM 2 W			

SIMILAR TO 473 471 D

BYN	MICRO	EC	CHANGE-NO	DATE	BYN	MICRO	EC	CHANGE-NO	DATE
			37982 E	20.8.62					
			1774 B	29.3.63					

IBM		
WIRING DIAGRAM-POWER SUPPLY		
6V DC AT 16A 50 CY/s		
DESIGN	MODEL	8068
DETAIL	SCALE	
CHECK	DATE	1.8.62
APPROV	CHECK	6/ 3.8.62

4118221



COMPONENT CHART

CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 11 000 MFD 20V DC	R20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP. 700 MFD 25V DC	R21		RESISTOR 100 OHM 10 W
C5-7		CAP. 11 000 MFD 20V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T1		TRANSFORMER
CR6-7		DIODE	TB1		TERMINAL BLOCK
E1-2		CONNECTOR	TB2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-9		TRANSISTOR TYPE 108
R19		RESISTOR 200 OHM 2W			

- NOTES
- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
  - XI FOR REFERENCE TO GROUND USE COMPONENT CARD ASSEMBLY 370 610
  - XII FOR REFERENCE TO -6V DC USE COMPONENT CARD ASSEMBLY 370 613
  - XIII RESISTANCE WIRE 0.1 OHM EACH (3x)

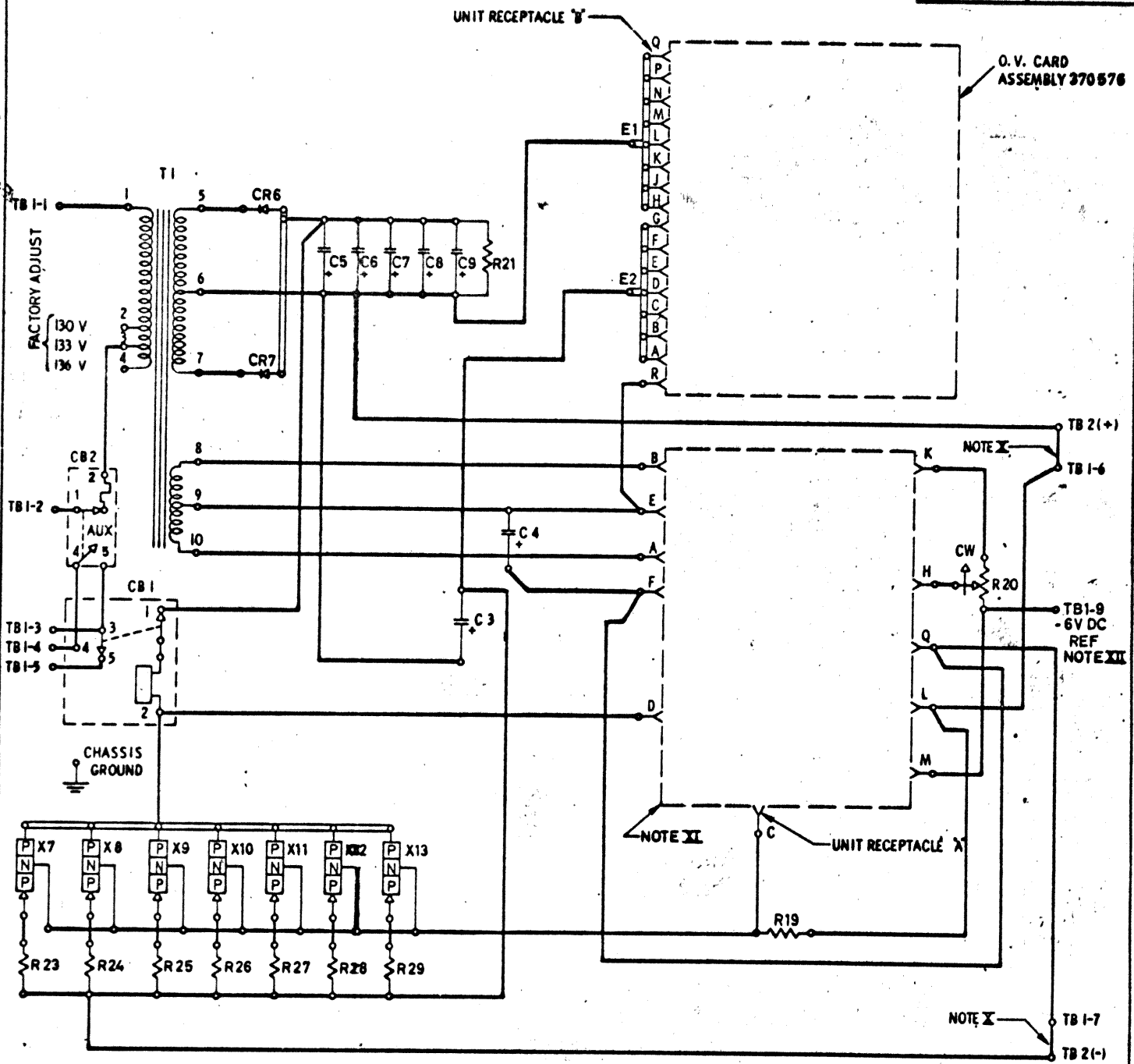
SIMILAR TO 473 501C

SYM	MICRO	EC	CHARGE-NO	TA	DATE	SYM	MICRO	EC	CHARGE-NO	TA	DATE
			37982E	20.8.62							
			1774A	7.3.63							

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
12V DC AT 12A 50 CY/s	
DESIGN	MODEL 8068
DETAIL	SCALE
CHECK	DATE 11.7.62
APPRO	CHECK 3.0.62



4118223



COMPONENT CHART

CODE	DESCRIPTION	CODE	DESCRIPTION
C3	CAP. 5 500 MFD 20V DC	R 20	POTENTIOMETER 250 OHM 0.5 W
C4	CAP. 700 MFD 25V DC	R 21	RESISTOR 75 OHM 10W
C5-9	CAP. 11000 MFD 20V DC	R23-29	RESISTANCE WIRE 0.1 OHM
CB1	CIRCUIT BREAKER	T1	TRANSFORMER
CB2	CIRCUIT BREAKER	TB1	TERMINAL BLOCK
CR6-7	DIODE	TB2	TERMINAL BLOCK
E1-2	BUS PLATE	X7-13	TRANSISTOR TYPE 10B
A & B	RECEPTACLE	R19	RESISTOR 200 OHM 2W

NOTES

- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
- XI FOR REFERENCE TO GROUND USE COMPONENT CARD ASSEMBLY 370 610
- XII FOR REFERENCE TO -6V DC USE COMPONENT CARD ASSEMBLY 370613

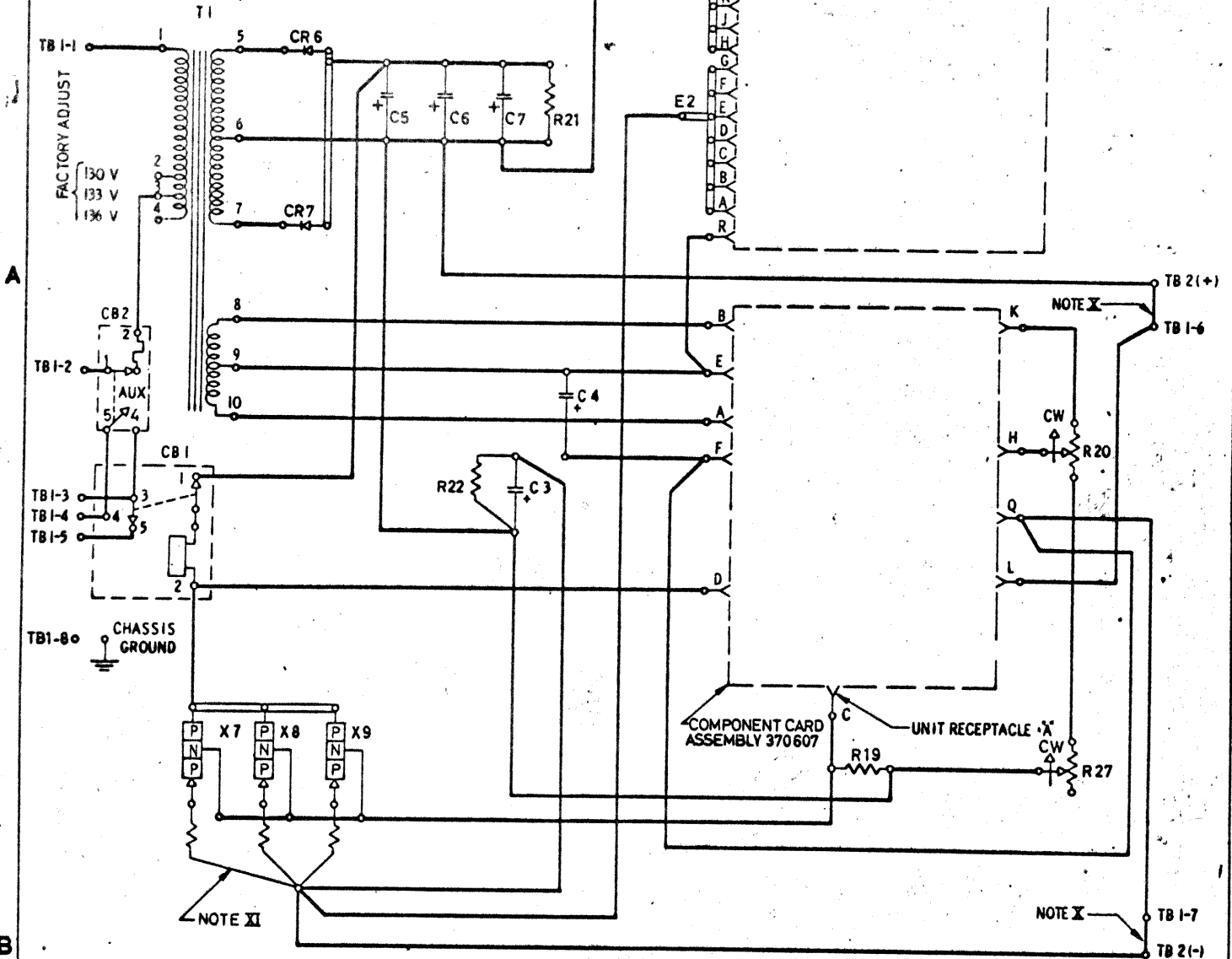
SIMILAR TO 473381 D

BYW	MICRO	EC	CHANGE NO	DATE	BYW	MICRO	EC	CHANGE NO	DATE
			37982E	20.8.62					
			1653	29.11.62					
			1774	7.2.63					

IBM			
WIRING DIAGRAM-POWER SUPPLY			
12V DC AT 20A 50 CY/s			
DESIGN	MODEL	8068	
DETAIL	SCALE		
CHECK	DRAWN	9.7.62	
APPD.	CHECK	3.8.62	

UNIT RECEPTACLE 'B'

O.V. CARD ASSEMBLY 370579



NOTES

- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
- XI RESISTANCE WIRE 0.1OHM EACH (4x)

COMPONENT CHART

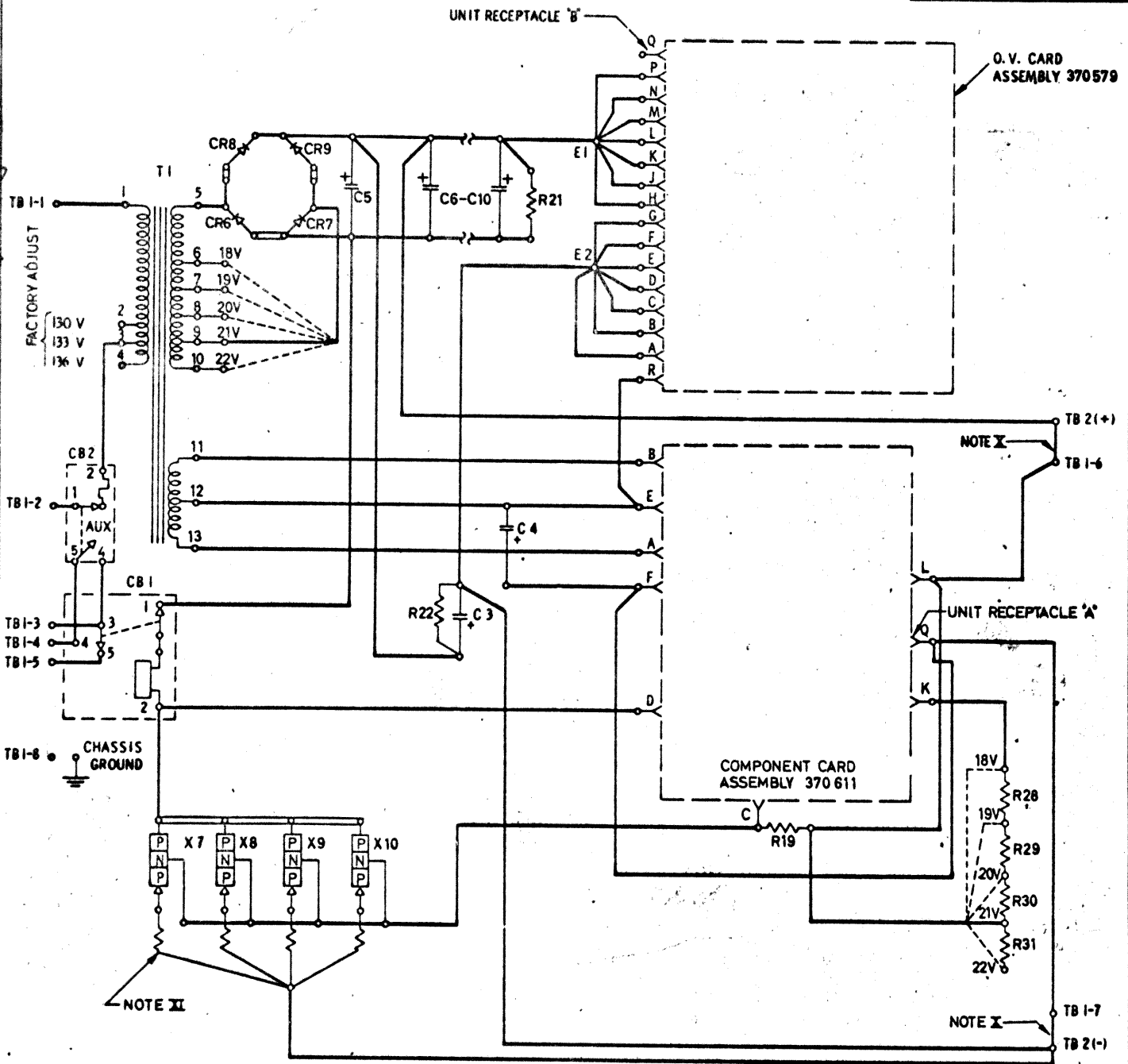
CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 5000 MFD 55V DC	R 20		POTENTIOMETER 500 OHM 0.5 W
C4		CAP. 100 MFD 60V DC	R 21		RESISTOR 100 OHM 17W
C5-7		CAP. 10,000 MFD 30V DC	R 22		RESISTOR 220 OHM 5W
CB 1		CIRCUIT BREAKER	R 27		POTENTIOMETER 2.5K 1.5W
CB 2		CIRCUIT BREAKER	T 1		TRANSFORMER
CR6-7		DIODE	TB 1		TERMINAL BLOCK
E1-2		BUS PLATE	TB 2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-9		TRANSISTOR TYPE 108
R 19		RESISTOR 250 OHM 5W			

SIMILAR TO 477221 C

BYN	MICRO	EC	CHANGE-NO	DATE	BYN	MICRO	EC	CHANGE-NO	DATE
			37982E	20.8.62					
			1774B	29.3.63					

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
20V DC AT 6A 50 CY/S	
DESIGN	MODEL 8068
DETAIL	SCALE
CHECK	DRAW 1.8.62
APPRO	CHKD 3.0.62

4118227



COMPONENT CHART

CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 10.000MFD 30V DC			
C4		CAP. 700MFD 25V DC	R21		RESISTOR 50 OHM 35W
C5-10		CAP. 10.000MFD 30V DC	R22		RESISTOR 100 OHM 10 W
CB1		CIRCUIT BREAKER	R28-31		RESISTOR 200 OHM 5 W
CB2		CIRCUIT BREAKER	T1		TRANSFORMER
CR6-9		DIODE	TB 1		TERMINAL BLOCK
E1-2		CONNECTOR	TB 2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-10		TRANSISTOR TYPE 108
R19		RESISTOR 250 OHM 5 W			

NOTES

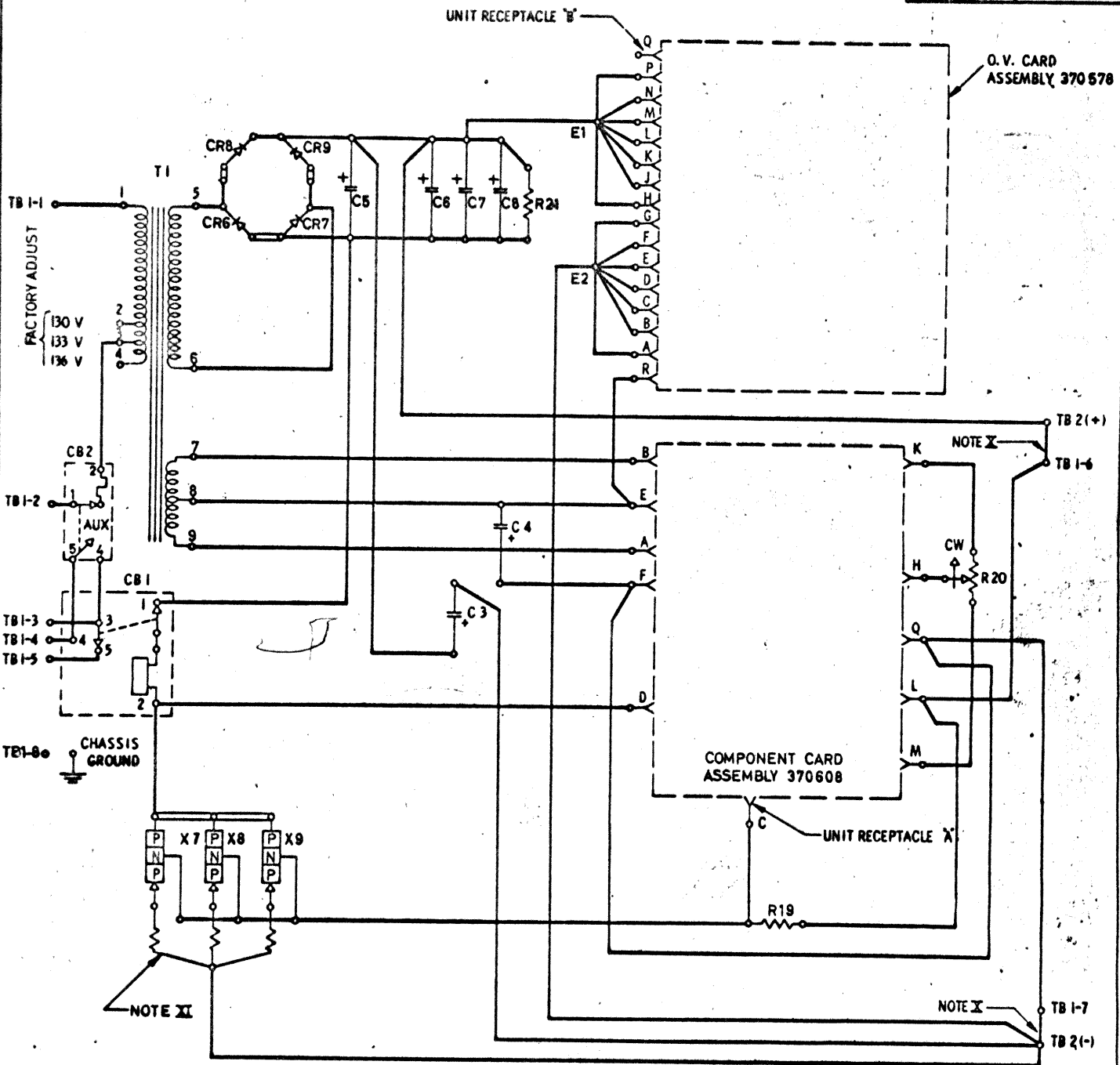
- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
- II RESISTANCE WIRE 0.1 OHM EACH (5x)

SIMILAR TO 473431D

SYM	MICRO	FILEM	EC	CHANGE NO	TA	DATE	SYM	MICRO	FILEM	EC	CHANGE NO	TA	DATE
				37982E		20.8.62							
				37982F		26.9.62							
				1774A		7.3.63							
				37982G		9.5.63							

IBM			
WIRING DIAGRAM-POWER SUPPLY			
20V DC AT 15A 50 CY/s			
DESIGN	MODEL	SCALE	
	8068		
DATE	DATE	DATE	DATE
		11.7.62	
APP'D	CHECK	DATE	DATE
		3.8.62	

4118233



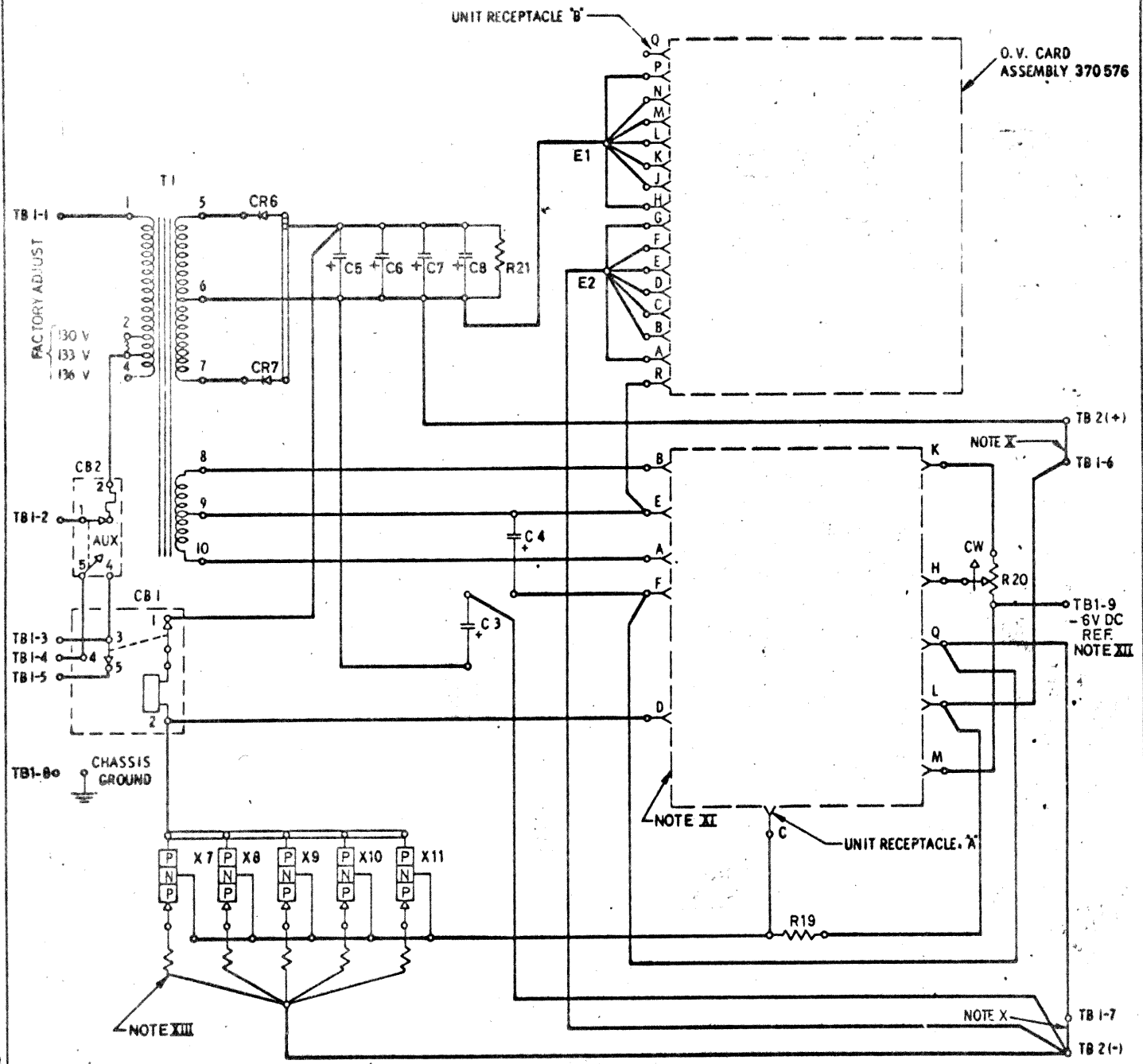
- NOTES
- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
  - XI RESISTANCE WIRE 0.1 OHM EACH (5x)

COMPONENT CHART					
CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 2 500 MFD 50V DC	R 20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP. 700 MFD 25V DC	R 21		RESISTOR 100 OHM 26 W
C5-7		CAP. 5.000 MFD 55V DC			
C8		CAP. 2 500 MFD 50V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T1		TRANSFORMER
CR6-9		DIODE	TB 1		TERMINAL BLOCK
E1-2		CONNECTOR	TB 2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-9		TRANSISTOR TYPE 108
R19		RESISTOR 500 OHM 5W			

SIMILAR TO 473561C

SYM	MICRO	CHANGE NO	TA.	DATE	SYM	MICRO	CHANGE NO	TA.	DATE
		37982 E	20.8	62					
		1774 A	7.3	63					

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
30V DC AT 7A 50 CY/s	
DESIGN	MODEL 8068
DETAIL	SCALE
REF	DRAWN 11.7.62
NO.	DATE 3.8.62



COMPONENT CHART

CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP 5500 MFD 20V DC	R20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP 700 MFD 25V DC	R21		RESISTOR 75 OHM 10 W
C5-8		CAP. 11000 MFD 20V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T1		TRANSFORMER
CR6-7		DIODE	TB1		TERMINAL BLOCK
			TB2		TERMINAL BLOCK
E1-2		CONNECTOR			
A & B		RECEPTACLE	X7-11		TRANSISTOR TYPE 108
R19		RESISTOR 200 OHM 2W			

- NOTES
- X FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
  - XI FOR REFERENCE TO GROUND USE COMPONENT CARD ASSEMBLY 370610
  - XII FOR REFERENCE TO -6V DC USE COMPONENT CARD ASSEMBLY 370613
  - XIII RESISTANCE WIRE 0.1 OHM EACH (5)

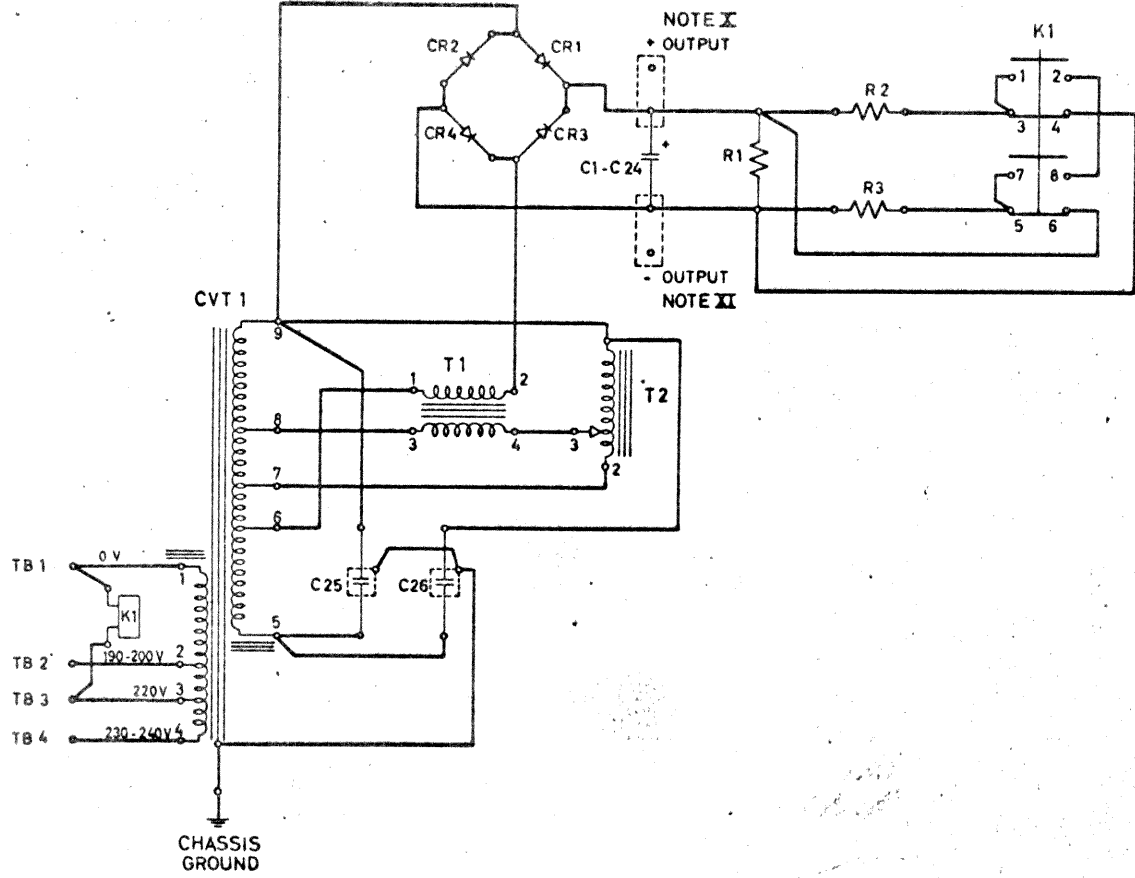
SIMILAR TO 473511C

SYN	MICRO	CHARGE NO	DATE	SYN	MICRO	CHARGE NO	DATE
	FILM	TA			FILM	TA	
		37982E	20.8.62				
		1774A	7.3.63				

IBM			
NAME WIRING DIAGRAM-POWER SUPPLY			
12V DC AT 16A 50 CY/S			
DESIGN	DATE	NO	8068
CHECK	DATE	APP	11.7.62
APPV	DATE	CHECK	6/ 3.0.62

4280480

DATE	CHANG# NO
20.9.60	TA-37500A
13.3.61	TA-37854



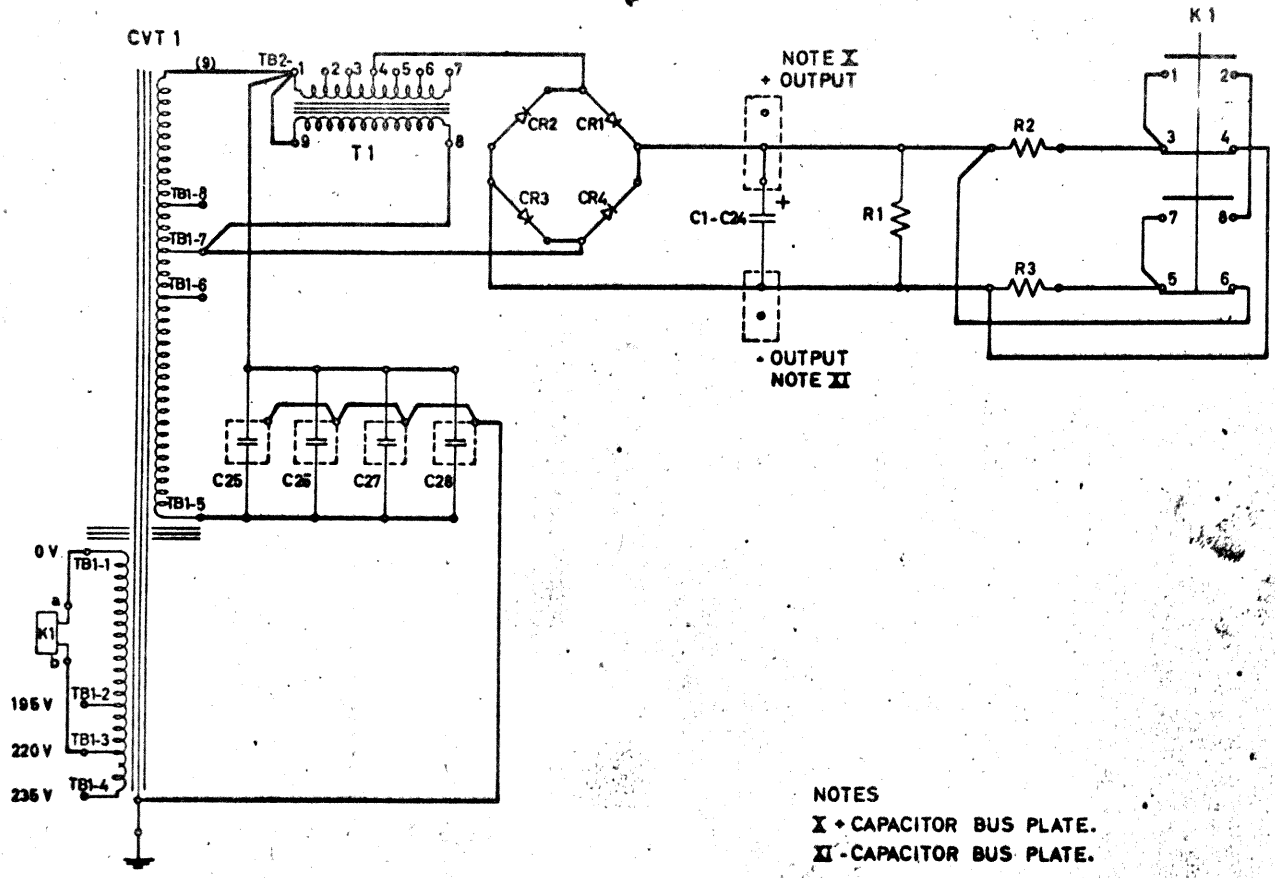
CODE	PART-NO.	DESCRIPTION
CVT-1	4116373	VOLTAGE REGULATOR
T1	4117524	TRANSF BUCK BOOST
T2	4117523	VARIAC
C1-C24	4116261	CAP 4.000 MFD 75V DC
C25-26	8010761	CAP. 18 MFD 300V AC
CR1-4	4116799	DIODE
R1	4117742	RESISTOR 150 OHM 35W
R2-R3	4117741	RESISTOR 50 OHM 35W
K1	4116890	CONTACTOR

NOTES  
 I - CAPACITOR BUS PLATE.  
 II - CAPACITOR BUS PLATE.

4280480

SIMILAR TO 220903

IBM			
NAME	WIRING DIAGRAM-POWER SUPPLY		
	± 60V DC AT 10A (50 CY/s)		
DESIGN		MODEL	
DETAIL		SCALE	
CHECK		DRAW	27.8.60
APPRO		CHECK	30.8.60



NOTES  
 X - CAPACITOR BUS PLATE.  
 XI - CAPACITOR BUS PLATE.

CODE	PART NO	DESCRIPTION
CVT 1	4 116 374	VOLTAGE REGULATOR
T 1	4 116 380	TRANSF BUCK BOOST
C1-24	4 116 261	CAP 4 000 MFD 75V DC
C25-28	8 010 761	CAP 18 MFD 300 V AC
CR1-4	4 116 909	DIODE
R 1	4 117 742	RESISTOR 150 OHM 35W
R2+R3	4 117 741	RESISTOR 50 OHM 35W
K 1	4 116 890	CONTACTOR

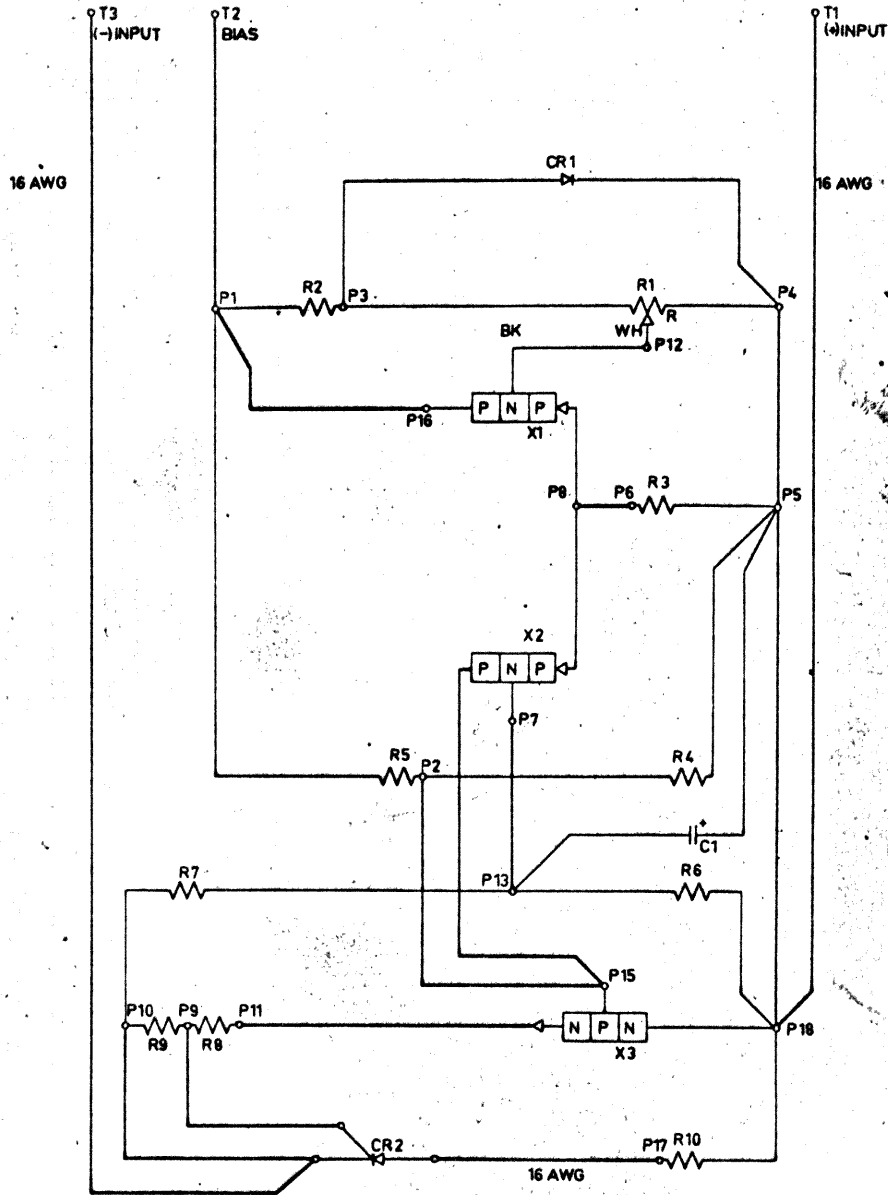
SIMILAR TO 699 208

- IBM				SYN	MICRO	CHANGE-NO	DATE	SYN	MICRO	CHANGE-NO	DATE
NAME	WIRING DIAGRAM POWER -	TA.	TA.	EC.	TA.	TA.	TA.	EC.	TA.	TA.	TA.
NAME	WIRING DIAGRAM POWER -					1131	31.1.62				
SUPPLY	* 60V AT 20A (50CV/s)										
DET		MOD	8068								
CHECK		DRAW	22.9.61								
APPRO		CHECK									



DATE	CHANGE NO.
30. 12. 59	EC-105584 X
20. 9. 60	TA-37500A
15. 12. 60	TA-37500F
12. 6. 61	TA-37600E
13. 9. 60	EC-105587 X
2. 8. 61	TA-37600G

COMPONENT LOCATION CHART		
CODE	PART NO.	DESCRIPTION
CR 1	208950	DIODE IN 429
CR 2	208955	RECTIFIER C 35U
X1+X2	535441	TRANSISTOR 026
R1	208952	POT. 750 OHM 1WATT
R2	317015	RES. 750 OHM 0.5WATT
R3	322347	RES. 560 OHM 0.5 WATT
R4	317027	RES. 11 K 0.5 WATT
R5	213549	RES. 47K 0.5 WATT
R6+R7	208951	RES. 400 OHM 1WATT ±1%
R8	317002	RES. 22 OHM 0.5 WATT
R9	317007	RES. 220 OHM 0.5 WATT
R10	208225	RES. 0.05 OHM 5 WATT
C1	124575	CAP. 0.22MFD 35VDC
X3	369087	TRANSISTOR 086



NOTES:

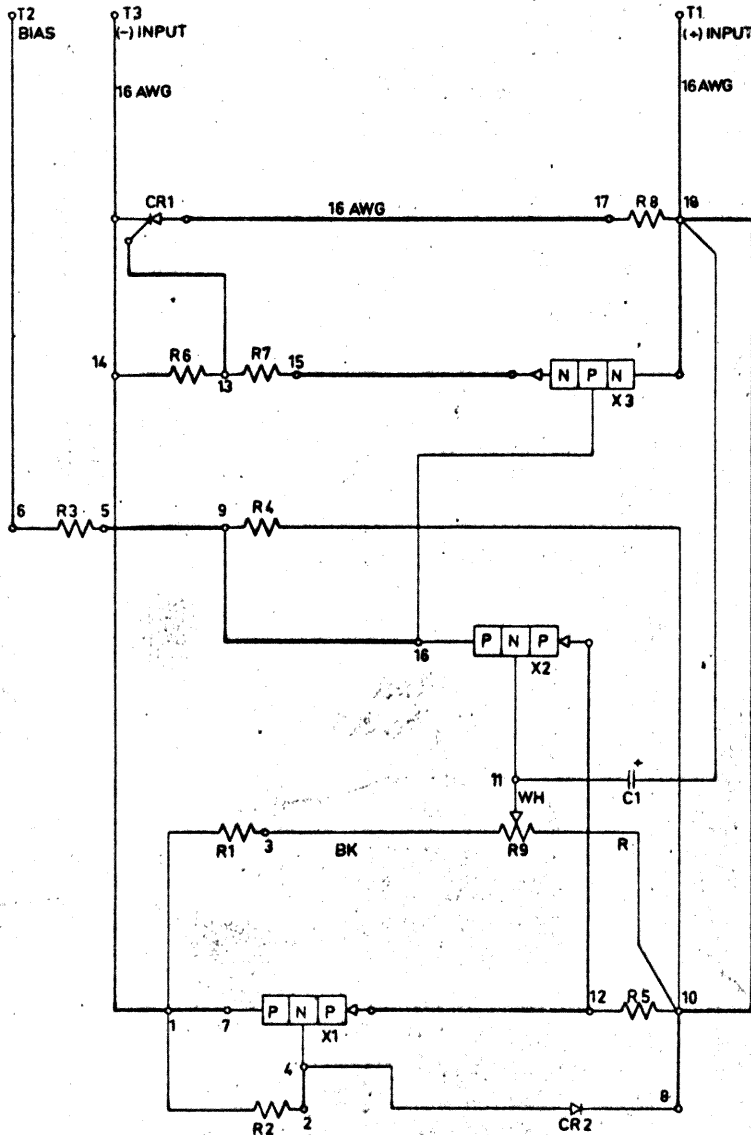
- X: ADJUST R1 TO FIRE CR2 AT  $6.78 \pm 0.02$  VOLTS BETWEEN PINS 1 & 3 WITH BIAS OF  $14 \pm 2\%$  VOLTS BETWEEN PINS 2(-) & 3 (+)
- XI: ALL WIRE 20 GA UNLESS OTHERWISE NOTED.

208948

IBM			
NAME WIRING DIAGR. OVERVOLTAGE			
PROTECTION ± 6 V DC POWER SUPPLY			
DESIGN		MODEL	
DETAIL		SCALE	
CHECK		DRAW	308.60
APPRO.		CHECK	1.8.60

DATE	CHANGE NO.
30. 12. 59	EC-105 584 X
20. 9. 60	TA-37500A
15. 12. 60	TA-37500F
13. 9. 60	EC-105 587 X
2. 8. 61	TA-37600G

COMPONENT CHART		
CODE	PART NO	DESCRIPTION
R1	208 951	RES.400 OHM 1WATT ±1%
R2	317014	RES.680 OHM 0.5WATT
R3	323 920	RES. 3K 0.5WATT
R4	317025	RES. 6.8K 0.5 WATT
R5	213 693	RES. 1K 0.5 WATT
R6	317007	RES. 220 OHM 0.5 WATT
R7	355 683	RES. 51 OHM 1WATT
R8	207 324	RES. 0.1 OHM 5WATT
R9	208 952	POT. 750 OHM 1WATT
X1+X2	535441	TRANSISTOR 026
X3	369 087	TRANSISTOR 086
CR1	208 955	CONTROLLED RECT. C35U
CR2	208 950	DIODE ZENER IN 429
C1	124 575	CAP. 0.22 MFD 35VDC



NOTES

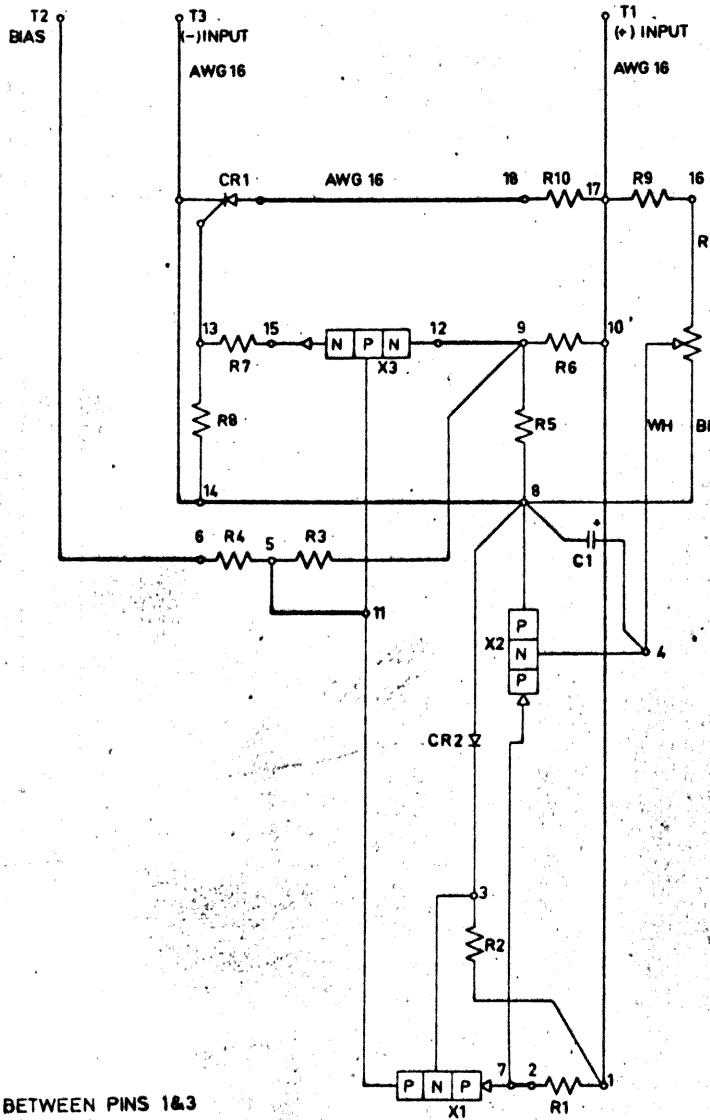
- X: ADJUST POTENTIOMETER TO FIRE C35U AT 12.96 ± 0.02 VOLTS INPUT PINS 1 & 3 WITH BIAS OF 12 ± 2% VOLTS BETWEEN PINS 2(-) & 3(+).
- XI: ALL WIRE 20 GA UNLESS OTHERWISE NOTED.

208961

IBM			
NAME	WIRING DIAGR. OVERVOLTAGE		
PROTECTION ±12 V DC POWER SUPPLY			
DESIGN		MODEL	
DETAIL		SCALE	
CHECK		DATE	308.60
APPRO		CHECK	1. 9. 60

DATE	CHANGE NO.
30. 12. 59	EC-105 584 X
20. 9. 60	TA-37500 A
15. 12. 60	TA-37500 F
16. 2. 60	EC-105 585 H
2. 8. 61	TA-37600 G

COMPONENT CHART		
CODE	PART NO.	DESCRIPTION
R1	213 549	RES. 47 K. Q5 WATT
R2	317 054	RES. 27 K. 1 WATT
R3	317 025	RES. 68 K. Q5 WATT
R4	323 920	RES. 3 K. Q5 WATT
R5	335 138	RES. 200 OHM 2 WATT
R6	207 328	RES. 400 OHM 5 WATT
R7	355 683	RES. 51 OHM 1 WATT
R8	317 007	RES. 220 OHM Q5 WATT
R9	208 969	RES. 26 K. 5WATT ±1 %
R10	208 970	RES. Q5 OHM 5 WATT
R11	208 952	POT. 750 OHM 1 WATT
X1, X2	535 441	TRANSISTOR 026
X3	369 087	TRANSISTOR 086
CR1	208 975	RECTIFIER C35F
CR2	208 950	DIODE ZENER IN 429
C1	124 575	CAP. Q22MFD 35 VDC



NOTES:  
 X: ADJUST R11 TO FIRE CR1 AT 32.40 ± 0.04 VOLTS BETWEEN PINS 1 & 3 WITH BIAS OF 12 ± 2 % VOLTS BETWEEN PINS 2 (-) & 3 (+).  
 X: ALL WIRE 20 GA UNLESS OTHERWISE NOTED.

IBM			
NAME	WIRING DIAGR. OVERVOLTAGE PROTECTION * 30 V DC POWER SUPPLY		
DESIGN		MODEL	
DETAIL		SCALE	
CHECK		DATE	30.8.60
APPRO		CHECK	L. S. M