

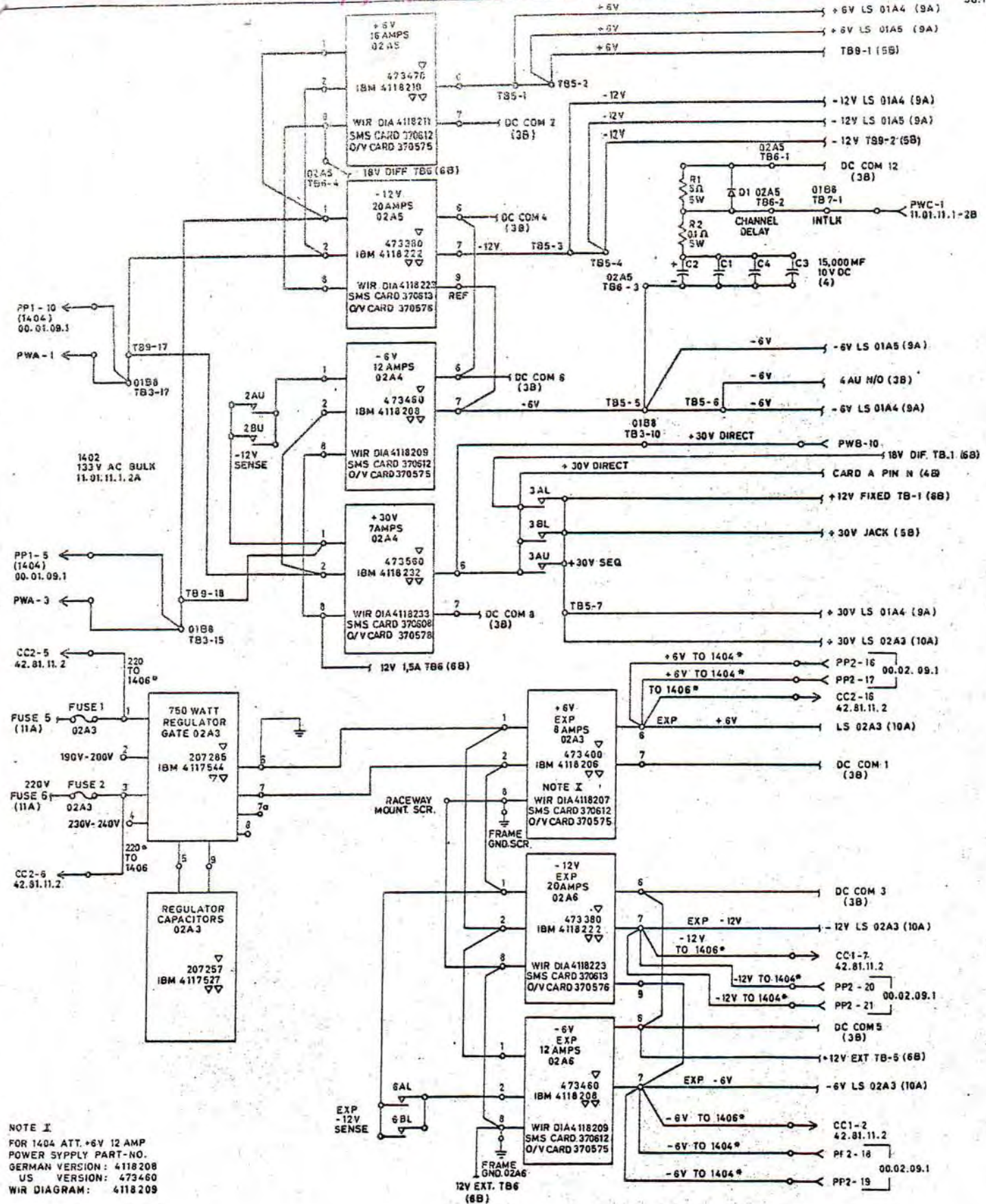
1401

Power - supply
1401-40-28421-2073/356

IBM

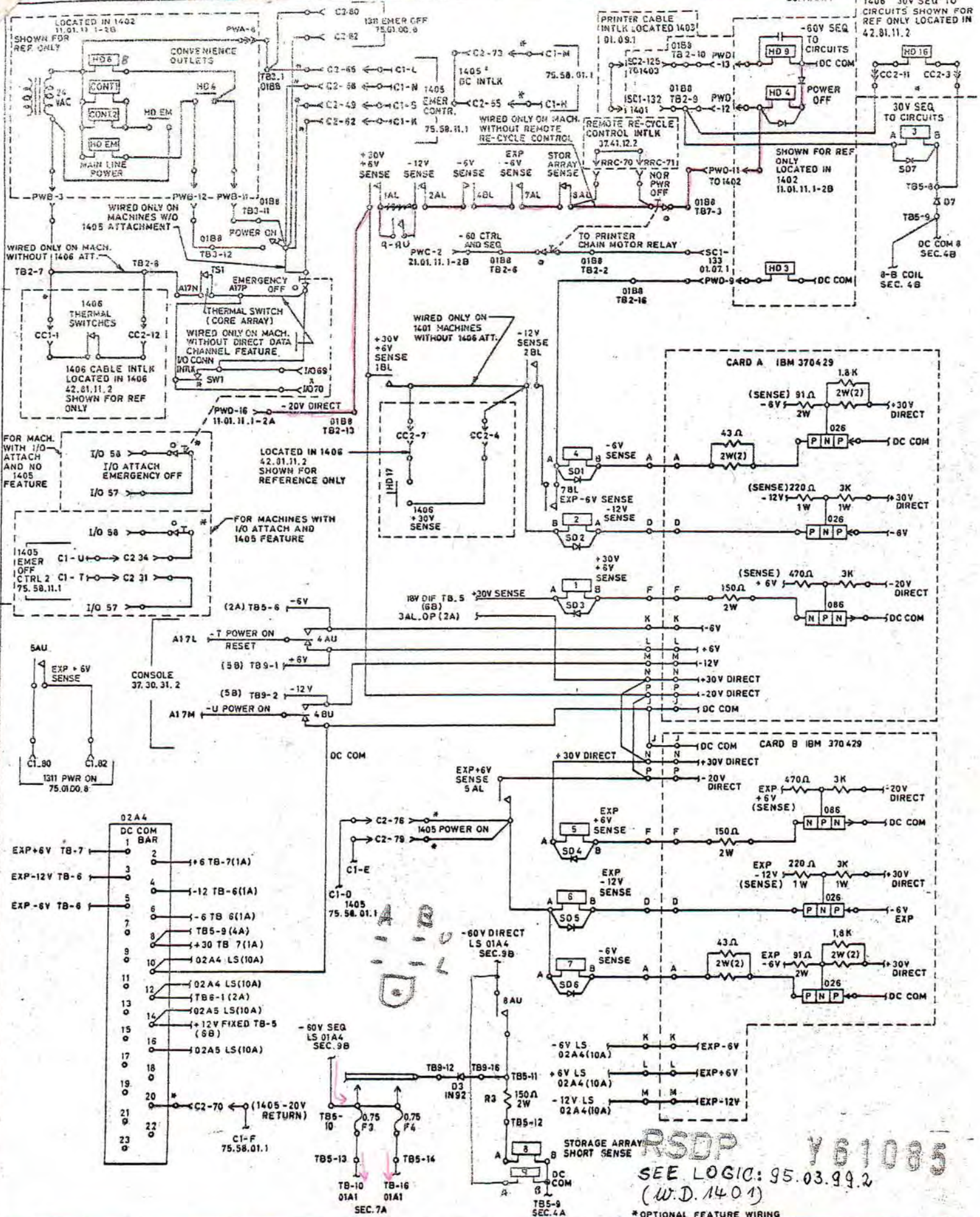
WIRING DIAGRAM

1401



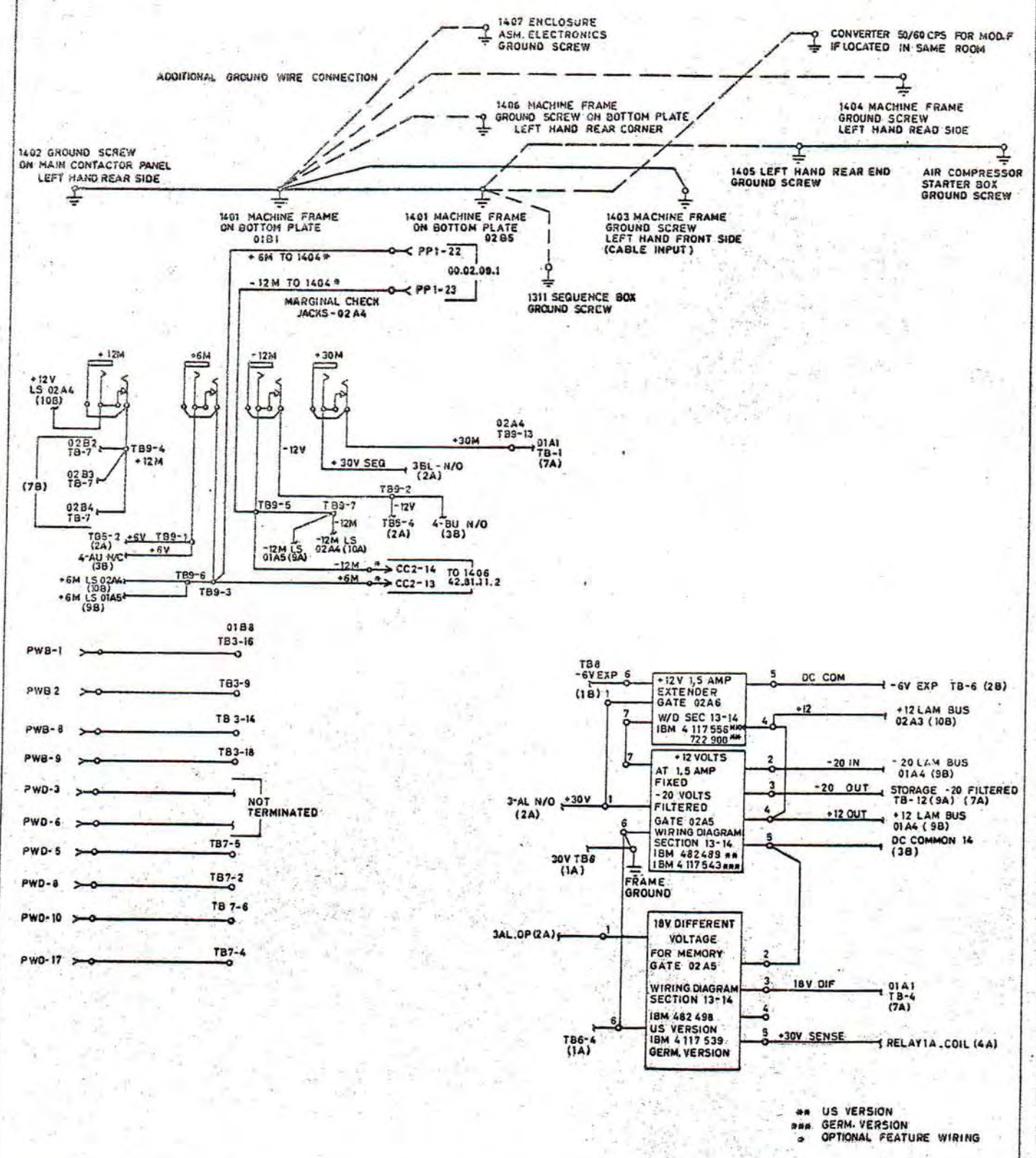
NOTE I.
 FOR 1404 ATT. +6V 12 AMP
 POWER SUPPLY PART-NO.
 GERMAN VERSION: 4118208
 US VERSION: 473460
 WIR DIAGRAM: 4118209

▽ GERMAN VERSION
 ▽ US VERSION
 * OPTIONAL FEATURE WIRING



STORAGE ARRAY SHORT SENSE

RSDP Y 61085
 SEE LOGIC: 95.03.99.2
 (W.D. 1401)
 *OPTIONAL FEATURE WIRING

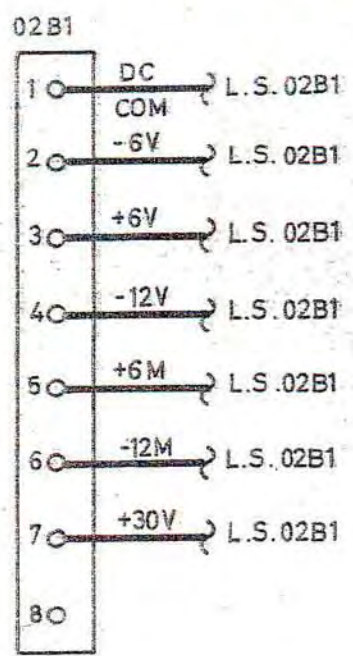


** US VERSION
 *** GERM. VERSION
 * OPTIONAL FEATURE WIRING

STANDARDS CODE	RELEASED FOR ASS'Y.	QTY.	SYM.	DATE	CHANGE NO.	MIGR. FILM	DEVELOPMENT NO.	Q/M
				23.11.61	TA-1013			
							4064789	

GATE TERMINAL BLOCKS-VOLTAGE DISTR.

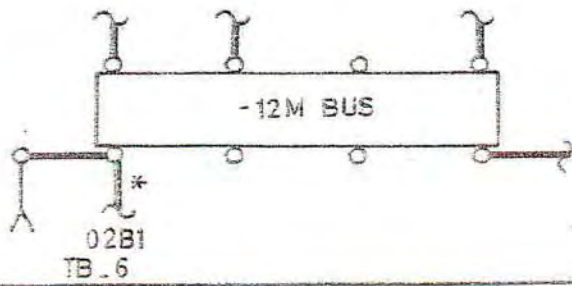
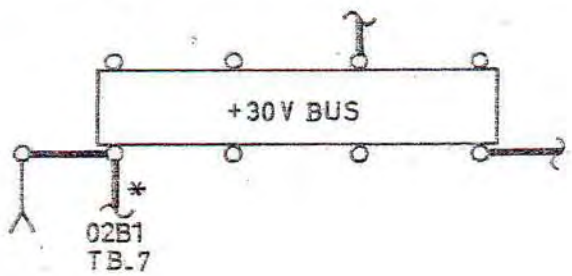
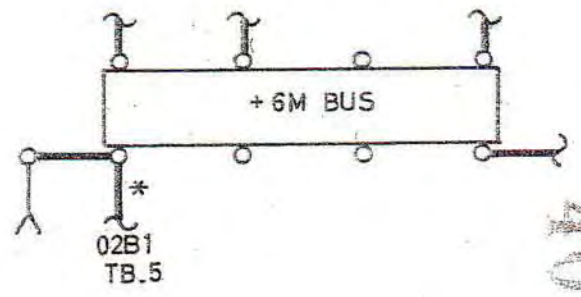
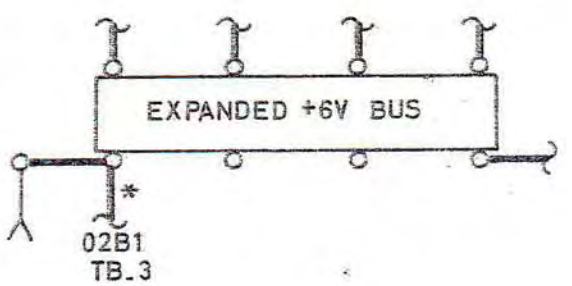
38.11.41.1



*

LAMINAR STRIP DISTRIBUTION

38.11.51.4

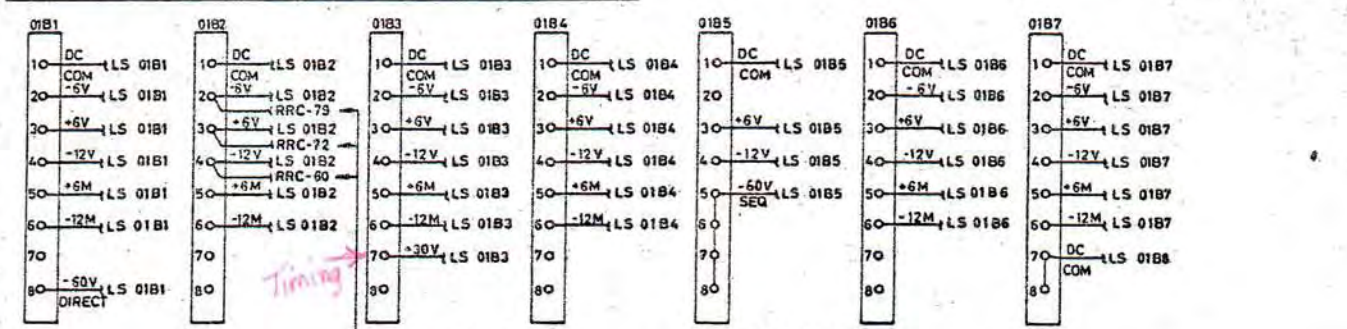
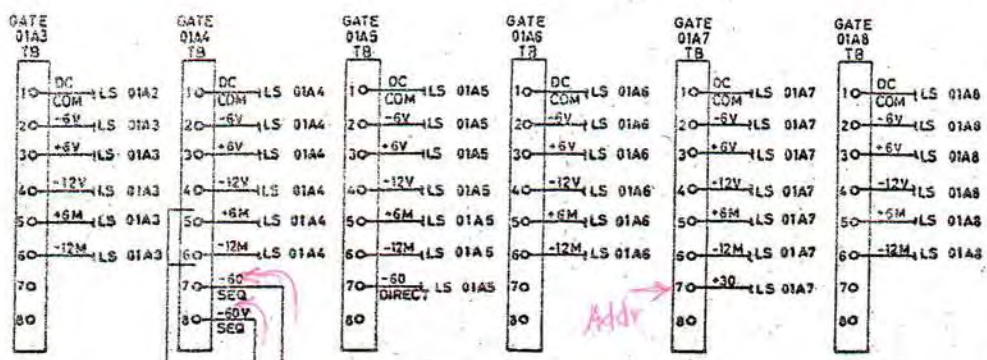
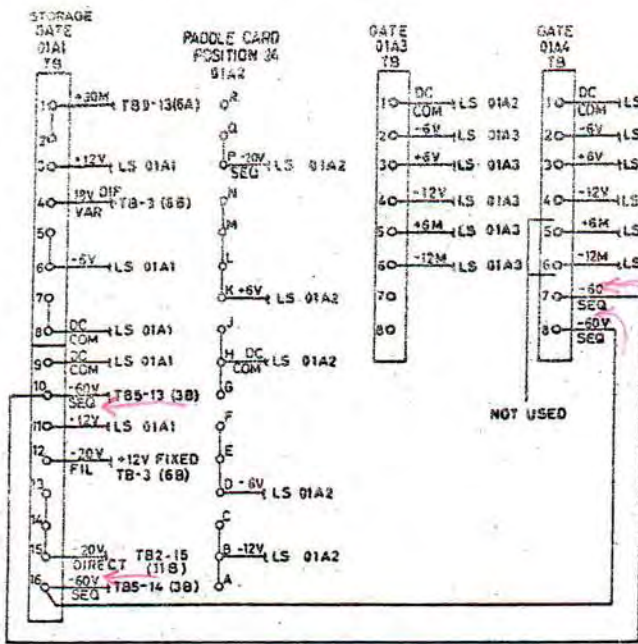


* STERLING ONLY

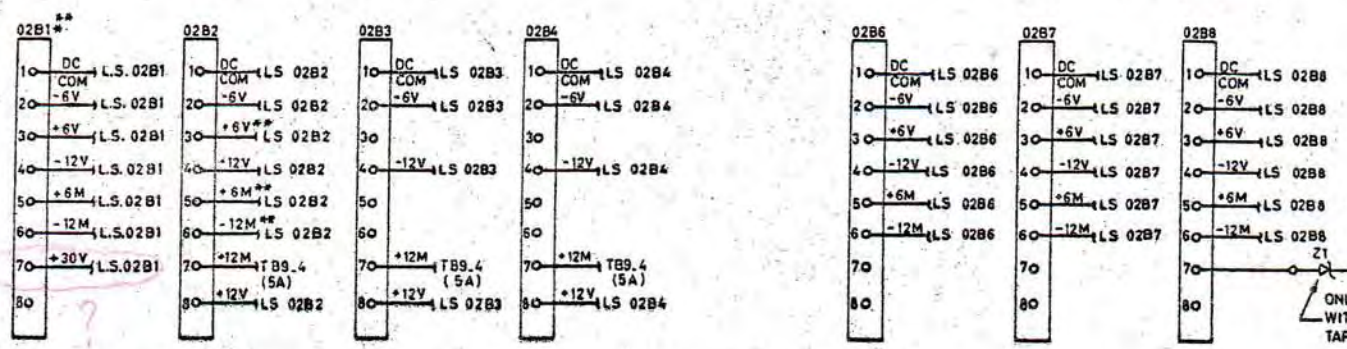
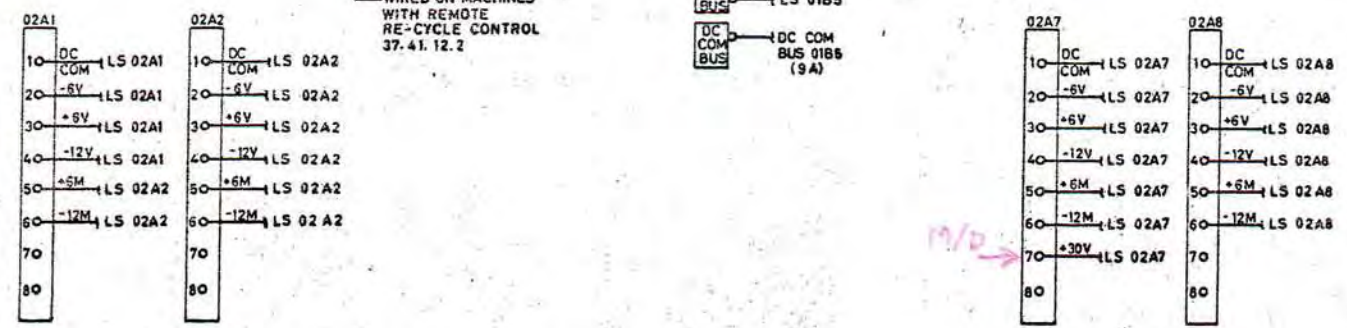
4064789

IBM			
NAME	POWER DISTRIBUTION FOR STERLING DEVICE		
DESIGN.	Hish	MODEL	1401B - F
DETAIL		SCALE	
CHECK.		DRAW.	Sil. 21.11.61
APPRO.	Wb	CHECK.	

GATE TERMINAL BLOCKS - VOLTAGE DISTRIBUTION



WIRED ON MACHINES WITH REMOTE RE-CYCLE CONTROL 37.41.12.2

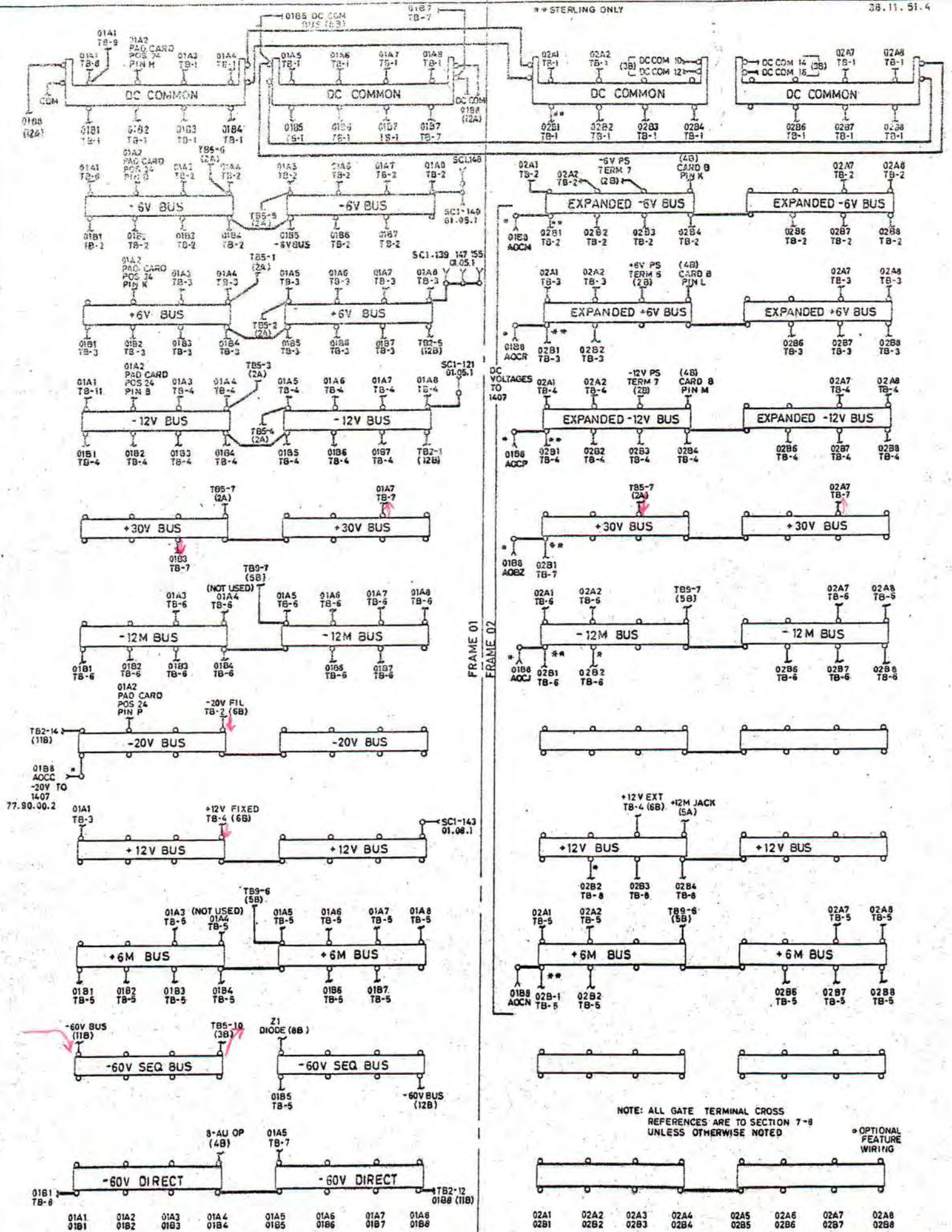


-60V SEQ LS 01A5
Z1
ONLY FOR MACHINES WITH SELECTIVE TAPE LISTER

NOTE X: ALL LAMINAR STRIP (LS) CROSS REFERENCE ARE TO SECTION 9-10

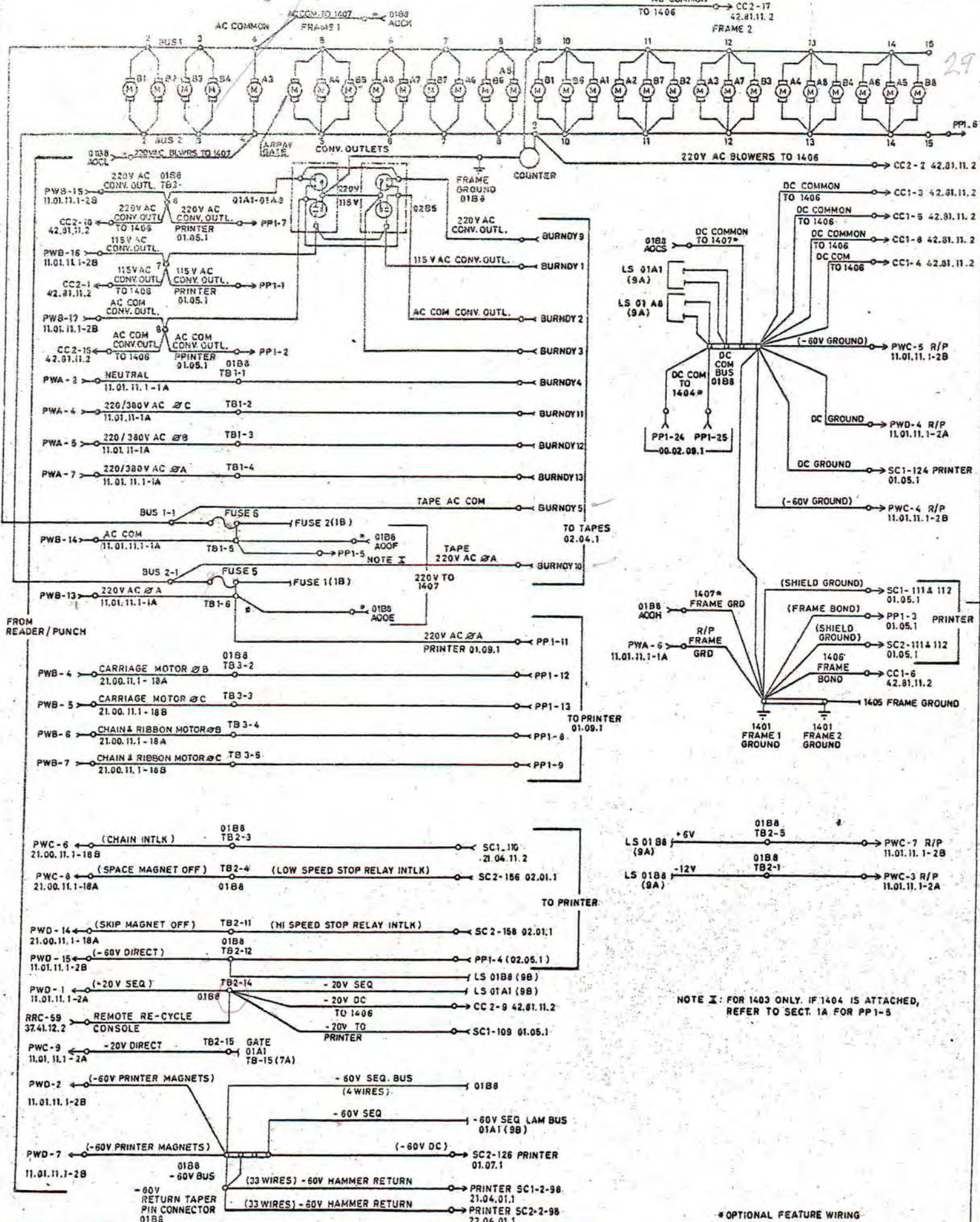
* STERLING ONLY
** OPTIONAL FEATURE WIRING

* * * STERLING ONLY



NOTE: ALL GATE TERMINAL CROSS REFERENCES ARE TO SECTION 7-8 UNLESS OTHERWISE NOTED

OPTIONAL FEATURE WIRING



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

* OPTIONAL FEATURE WIRING

TB	DATE	TERMINAL BLOCKS																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0188	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A	11A
2	0188	12B	4A	11B	11B	12B	4A	3A	3A	4A	4A	11B	11B	3A	11B	11B	4A		
3	0188	3A	11B	11B	11B	11B	11A	11A	11A	5B	2A	3A	3A		5B	A	5B	1A	3B
5	02A4	2A	2A	2A	2A	2A	2A	2A	4A	3A	3B	3B	3B	3B					
6	02A5	2A	2A	2A	2A														
7	0188	2A	5B	4A	5B	5B	5B												
9	02A4	5B	5B	5B	5A	5B	5B	5B					5A			1A	1A		

38.11.73.1

COLOR CODING	
*30 - PINK (OR RED)	
*12 - GRAY	
*6 - ORANGE	
*6N - TAN	
DC COMMON GROUND - BLACK	
- 6 - BLUE	
- 12 - VIOLET	
- 12M - AQUA	
- 20 - WHITE WITH VIOLET TRACER	
- 60 - WHITE WITH GREEN TRACER	
FRAME GROUND - GREEN WITH YELLOW TRACER	
*30H - RED WITH WHITE TRACER	
18V D1P - WHITE WITH GREY TRACER	
*12M - WHITE	

EXTERNAL POWER CABLES - 1402 READER PUNCH TO 1401 PROCESS UNIT

R/P DRAWING	R/P CONN.	FUNCTION	1401 TERMINAL	1401 DRAWING
11.01.11.1-2A	PWA - 1	15V V.A.C BULK SUPPLY	TB3-17	0188 11.11.1-1A
11.01.11.1-1A	- 2	NEUTRAL	TB3-1	0188 11.01.1-12A
11.01.11.1-2A	- 3	15V V.A.C BULK SUPPLY	TB3-15	0188 11.11.1-1A
11.01.11.1-1A	- 4	220/300VAC B A TAPE DRIVE	TB1-2	0188 11.01.1-11A
11.01.11.1-1A	- 5	220/300VAC B B TAPE DRIVE	TB1-3	0188 11.01.1-11A
11.01.11.1-1A	- 6	R/P FRAME GROUND	FRAME 1 BOND	11.01.1-12B
11.01.11.1-1A	- 7	220/300VAC B C TAPE DRIVE	TB1-4	0188 11.01.1-11A
11.01.11.1-2B	- 8	24V AC COMMON	TB3-1	0188 11.11.21-15A
11.01.11.1-2B	- 9	SPARE	TB3-15	0188 11.11.21-15B
11.01.11.1-2B	- 10	SPARE	TB3-1	0188 11.11.21-15A
11.01.11.1-1A	- 11	EMERGENCY STOP	TB3-7	0188 11.11.21-15A
21.00.11.1-18A	- 4	CARRIAGE MOTOR 220/300VAC	TB3-2	0188 11.11.21-15B
21.00.11.1-18A	- 5	CARRIAGE MOTOR 220/300VAC	TB3-3	0188 11.11.21-15B
21.00.11.1-18A	- 6	CHAIN & RIB MOTOR 220/300VAC	TB3-4	0188 11.01.1-11B
21.00.11.1-18A	- 7	CHAIN & RIB MOTOR 220/300VAC	TB3-5	0188 11.01.1-11B
11.01.11.1-2B	- 8	SPARE	TB3-14	0188 11.11.21-15B
11.01.11.1-2B	- 9	SPARE	TB3-18	0188 11.11.21-15B
11.01.11.1-2B	- 10	30V DIRECT	TB3-11	0188 11.11.21-15B
11.01.11.1-1A	- 11	POWER ON SWITCH	TB3-11	0188 11.11.21-15B
11.01.11.1-1A	- 12	POWER ON SWITCH	TB3-12	0188 11.11.21-15B
11.01.11.1-1A	- 13	220VAC 2 A	TB3-9	0188 11.01.1-11B
11.01.11.1-1A	- 14	AC COMMON	TB1-5	0188 11.01.1-11A
11.01.11.1-2B	- 15	220V COM. OUTL.	TB3-6	0188 11.11.21-15A
11.01.11.1-2B	- 16	115VAC CONV. OUTL.	TB3-7	0188 11.01.1-11A
11.01.11.1-2B	- 17	AC COMMON CONV. OUTL.	TB3-8	0188 11.11.21-15A
11.01.11.1-2B	SMC - 1	5V D.C. FILTER DELAY	TB1-1	0188 11.11.21-15A
21.00.11.1-17A	- 2	-60V TRIED & SEQ.-C.R.P	TB2-6	0188 11.11.21-15A
11.01.11.1-2B	- 3	-12 VOLTS DC	TB2-1	0188 11.11.21-15A
11.01.11.1-2B	- 4	-60V DC COMMON GROUND	GND BUS 0188	11.01.1-12B
11.01.11.1-2B	- 5	-60V DC COMMON GROUND	GND BUS 0188	11.01.1-12B
21.00.11.1-18B	- 6	CHAIN INTLK	TB2-3	0188 11.11.21-15B
11.01.11.1-2B	- 7	+6 VOLTS DC	TB2-5	0188 11.11.21-15B
21.00.11.1-18A	- 8	SPACE MAGNET OFF	TB2-4	0188 11.11.21-15B
11.01.11.1-2A	- 9	-20V DIRECT	TB2-15	0188 11.11.21-15B
11.01.11.1-2A	PWD - 1	-20V SEQ	TB2-16	0188 11.11.21-15B
11.01.11.1-2B	- 2	-60V SEQ PRINTER MAG	-60V SUS 0188	11.11.21-15B
11.01.11.1-2A	- 3	SPARE	NONE	11.11.21-15B
11.01.11.1-2A	- 4	DC COMMON GROUND	GND BUS 0188	11.11.21-15B
11.01.11.1-2A	- 5	SPARE	TB3-5	0188 11.11.21-15B
11.01.11.1-2A	- 6	SPARE	NONE	11.11.21-15B
11.01.11.1-2B	- 7	-60V SEQ PRINTER MAG	-60V SUS 0188	11.11.21-15B
11.01.11.1-2B	- 8	SPARE	TB3-2	0188 11.11.21-15B
11.01.11.1-2B	- 9	-20V SENSE CONTROL	TB2-18	0188 11.11.21-15B
11.01.11.1-2B	- 11	POWER OFF SWITCH	TB2-7	0188 11.11.21-15A
11.01.11.1-2B	- 12	PRINTER INTLK CTRL-1	TB2-9	0188 11.11.21-15A
11.01.11.1-2B	- 13	PRINTER INTLK CTRL-2	TB2-10	0188 11.11.21-15A
21.00.11.1-18B	- 14	SKIP MAG OFF DELAY INTLK	TB2-11	0188 11.11.21-15A
11.01.11.1-2B	- 15	SPACE MAGNETS	TB2-12	0188 11.11.21-15B
11.01.11.1-2A	- 16	-20 VOLTS DC DIRECT	TB2-13	0188 11.11.21-15A
11.01.11.1-2A	- 17	SPARE	TB2-4	0188 11.11.21-15B
11.01.11.1-2A	- 10	SPARE	TB2-7	0188 11.11.21-15B

EXTERNAL POWER CABLES - 1401 PROCESS UNIT TO 729 TAPE UNITS

1401 DRAWING	1401 TERMIN	FUNCTION	729 CONNECTOR	729 DRAWING
18.11.61.1-12A	CON. OUT. 0285	115VAC CONV. OUTLET	BURNDY-1	02.04.1
18.11.61.1-12A	CON. OUT. 0285	AC COMMON CONV. OUTLET	BURNDY-2	02.04.1
18.11.61.1-12B	FRAME GND	FRAME GROUND	BURNDY-3	02.04.1
18.11.61.1-11A	TB1-1	NEUTRAL	BURNDY-4	02.04.1
18.11.61.1-12A	BUS-1	AC COMMON	BURNDY-5	02.04.1
18.11.61.1-12A	CON. OUT. 0285	220VAC CONV. OUTL.	BURNDY-6	02.04.1
18.11.61.1-12A	BUS-1	TAPE 220V AC B A	BURNDY-10	02.04.1
18.11.61.1-12A	TB1-2	220/300VAC B A	BURNDY-11	02.04.1
18.11.61.1-12A	TB1-3	220/300VAC B B	BURNDY-12	02.04.1
18.11.61.1-12A	TB1-4	220/300VAC B C	BURNDY-13	02.04.1

EXTERNAL POWER LINES - 1401 PROCESS UNIT TO 1405 FILE

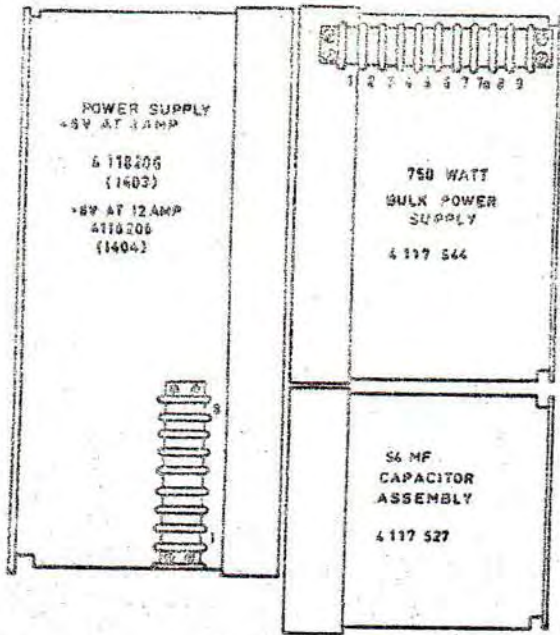
1401 DRAWING	1401 TERMINATION	FUNCTION	1405 CONNECTOR	1405 DRAWING
18.11.21.1-1A	C2-49	0285 1405 EMER OFF CONTROL	C1-5	75.58.11.1
18.11.21.1-1A	C2-58	0285 1405 EMER OFF CONTROL	C1-6	75.58.11.1
18.11.21.1-4A	C2-55	0285 DC INTERLOCK	C1-7	75.58.01.1
18.11.21.1-3A	C2-62	0285 1405 EMER OFF CONTROL 1	C1-X	75.58.11.1
18.11.21.1-1A	C2-65	0285 1405 EMER OFF CONTROL 1	C1-L	75.58.11.1
18.11.21.1-1A	C2-70	0285 1405-10V RETURN	C1-F	75.58.01.1
18.11.21.1-1A	C2-71	0285 DC INTERLOCK	C1-H	75.58.01.1
18.11.21.1-1B	C2-76	0285 1405 POWER ON	C1-D	75.58.01.1
18.11.21.1-1B	C2-79	0285 1405 POWER ON	C1-E	75.58.01.1
18.11.21.1-1A	C2-31	0285 1405 EMER OFF CONTROL 2	C1-T	75.58.11.1
18.11.21.1-2A	C2-34	0285 1405 EMER OFF CONTROL 2	C1-U	75.58.11.1

EXTERNAL POWER CABLE - 1401 PROCESS UNIT TO 1406 EXP CS

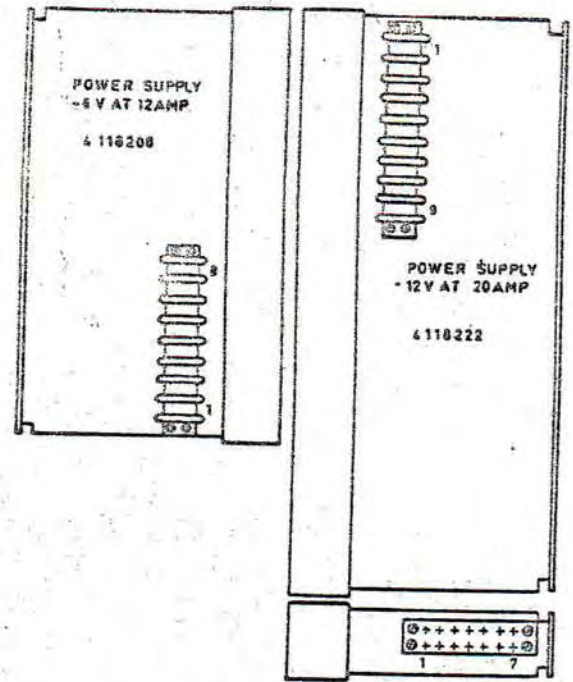
1401 DRAWING	1401 TERMINATION	FUNCTION	1406 CONNECTOR	1406 DRAWING
18.11.21.1-3A	TB2-7	0188 CABLE INTERLOCK	CC1-1	42.81.11.2
18.11.21.1-2B	-6V EXP	TB-7 10V DC	CC1-2	42.81.11.2
18.11.61.1-12A	DC COM	0188 DC COMMON	CC1-3	42.81.11.2
18.11.61.1-12A	DC COM	0188 DC COMMON	CC1-4	42.81.11.2
18.11.61.1-12A	DC COM	0188 DC COMMON	CC1-5	42.81.11.2
18.11.61.1-12B	1401 FRAME GND	FRAME BOND	CC1-6	42.81.11.2
18.11.61.1-2B	-12V EXP	TB-7 -12V	CC1-7	42.81.11.2
18.11.61.1-12A	DC COM	0188 DC COMMON	CC1-8	42.81.11.2
18.11.61.1-11A	TB4-7	0188 115V AC CONV. OUTLETS	CC2-1	42.81.11.2
18.11.61.1-12A	DC COM	0188 DC COMMON	CC2-2	42.81.11.2
18.11.61.1-12A	DC COM	0188 DC COMMON	CC2-3	42.81.11.2
18.11.21.1-3A	6 BL-OP	6V BL-OP	CC2-4	42.81.11.2
18.11.11.1-1A	58VW REG	TB-1 AC COMMON	CC2-5	42.81.11.2
18.11.11.1-1B	58VW REG	TB-2 220V AC	CC2-6	42.81.11.2
18.11.21.1-2A	18L-R/O	-60V SENSE	CC2-7	42.81.11.2
18.11.61.1-11B	TB2-14	0188 -20V AC	CC2-8	42.81.11.2
18.11.61.1-11A	TB3-5	0188 220V AC CONV. OUTL.	CC2-10	42.81.11.2
18.11.21.1-2A	TB2-9	0188 +6V SEQ TO CIRCUITS	CC2-12	42.81.11.2
18.11.21.1-2A	TB2-3	0188 +6V SEQ TO CIRCUITS	CC2-11	42.81.11.2
18.11.21.1-2A	TB2-3	0188 +6V SEQ TO CIRCUITS	CC2-12	42.81.11.2
18.11.21.1-2B	TB2-3	0188 +6V SEQ TO CIRCUITS	CC2-13	42.81.11.2
18.11.21.1-2B	TB2-3	0188 +6V SEQ TO CIRCUITS	CC2-14	42.81.11.2
18.11.61.1-11A	TB3-8	0188 AC COMMON CONV. OUTL.	CC2-15	42.81.11.2
18.11.11.1-2B	-6V EXP	TB-6 10V DC	CC2-16	42.81.11.2
18.11.11.1-12A	79 AC BUS 1	AC COMMON	CC2-17	42.81.11.2

EXTERNAL POWER LINES - 1401 PROCESS UNIT TO 1403 PRINTER

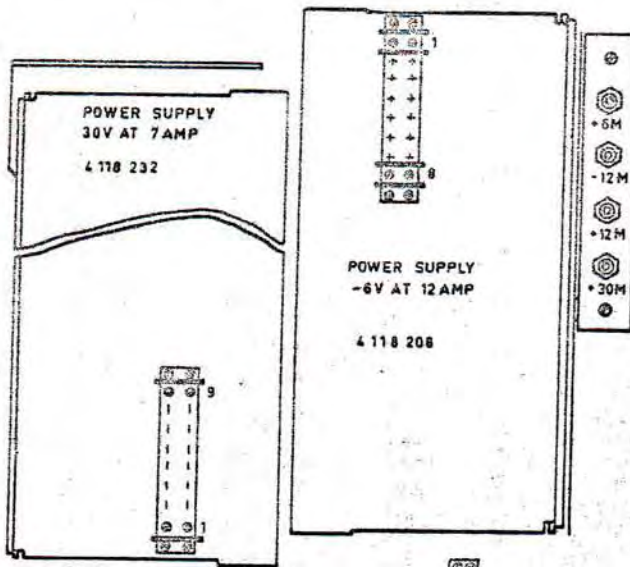
1401 DRAWING	1401 TERMINAL	FUNCTION	1403 CONNECTOR	1403 DRAWING
18.11.61.1-11A	TB3-7	0188 115V AC CONV. OUTL.	PP1-1	01.05.1
18.11.61.1-11A	TB3-8	0188 AC COMMON CONV. OUTL.	PP1-2	01.05.1
18.11.61.1-12B	1401 FRAME	FRAME BOND	PP1-3	01.05.1
18.11.61.1-11B	TB2-12	0188 SPACE MAGNETS -60V DC	PP1-4	01.05.1
18.11.61.1-11A	TB1-5	0188 AC COM WITH FAN BLOWER	PP1-5	01.05.1
18.11.61.1-12A	BUS-5	0188 220V AC COMMON	PP1-6	01.05.1
18.11.61.1-11A	TB3-5	0188 220V AC CONV. OUTL.	PP1-7	01.05.1
18.11.61.1-11B	TB3-4	0188 CHAIN & RIB. M-220/300VAC 63	PP1-8	01.05.1
18.11.61.1-11B	TB3-5	0188 CHAIN & RIB. M-220/300VAC 63	PP1-9	01.05.1
18.11.61.1-11A	TB1-6	0188 220/300 VAC 5A	PP1-11	01.05.1
18.11.61.1-11B	TB3-2	0188 220/300 VAC CARR. MOTOR 28	PP1-12	01.05.1
18.11.61.1-11B	TB3-3	0188 220/300 VAC CARR. MOTOR 28	PP1-13	01.05.1
18.11.61.1-11B	MOV RET	0188 -60V HAMMER RETURN	SC1-2-98 (BY 3)	21.04.01.1
18.11.61.1-11B	TB2-3	0188 SPARE	SC1-11	01.05.1
18.11.61.1-12A	1401 FRAME	SHIELD GROUND	SC1-11 & 112	01.05.1
18.11.61.1-9A	LAM BUS 01A8	+12 VOLTS DC	SC1-21	01.05.1
18.11.61.1-12A	GND BUS 0185	DC COMMON GROUND	SC1-24	01.05.1
18.11.21.1-4A	TB2-9	0188 PRINTER INTLK CTRL-1	SC1-132	01.07.1
18.11.21.1-4A	TB2-2	0188 CHAIN MOTOR RELAY	SC1-133	01.07.1
18.11.61.1-9A	LAM BUS 01A8	+6 VOLTS DC	SC1-149	01.05.1
18.11.61.1-9A	LAM BUS 01A8	+6 VOLTS DC	SC1-140	01.05.1
18.11.61.1-9B	LAM BUS 01A8	+12 VOLTS DC	SC1-143	01.05.1
18.11.61.1-11B	MOV RET 0110	-60V HAMMER RETURN	SC2-2-98 (BY 3)	21.04.01.1
18.11.61.1-12B	1401 FRAME	SHIELD GROUND	SC2-11 & 112	01.05.1
18.11.21.1-2A	TB2-12	0188 PRINTER INTLK CTRL-2	SC2-125	01.07.1
18.11.61.1-11B	MOV BUS 0185	-60V AC COMMON	SC2-126	01.07.1
18.11.61.1-11B	TB2-1	0188 LOW SPEED STOP INTLK	SC2-140	02.01.1
18.11.61.1-11B	TB2-11	0188 HI SPEED STOP INTLK	SC2-142	02.01.1
18.11.61.1-11B				



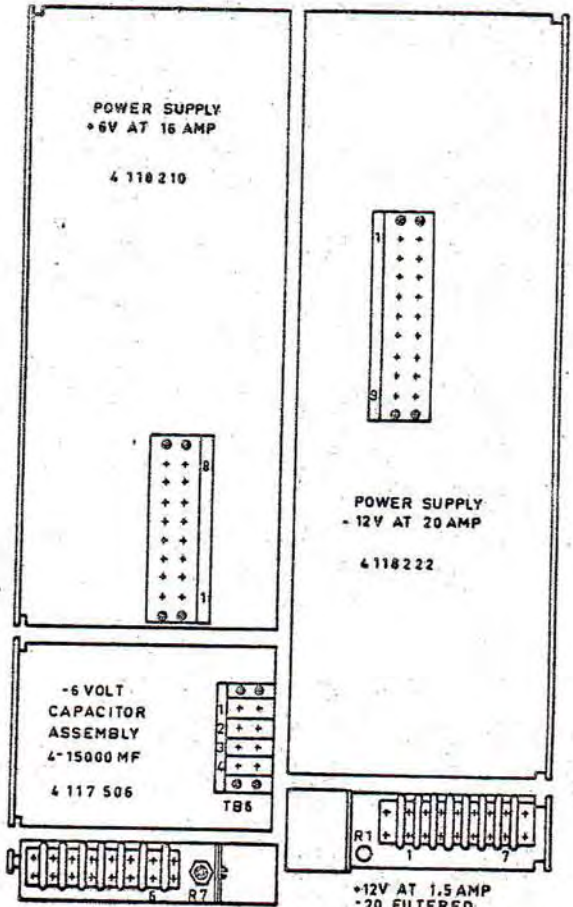
02A3



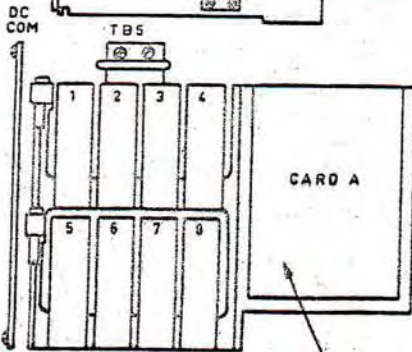
02A6



02A4



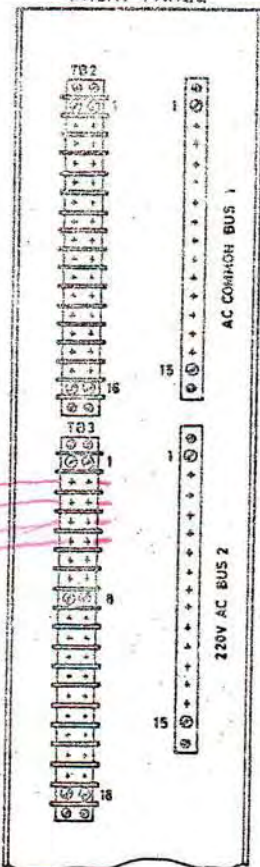
02A5



CARD B
BACK SIDE

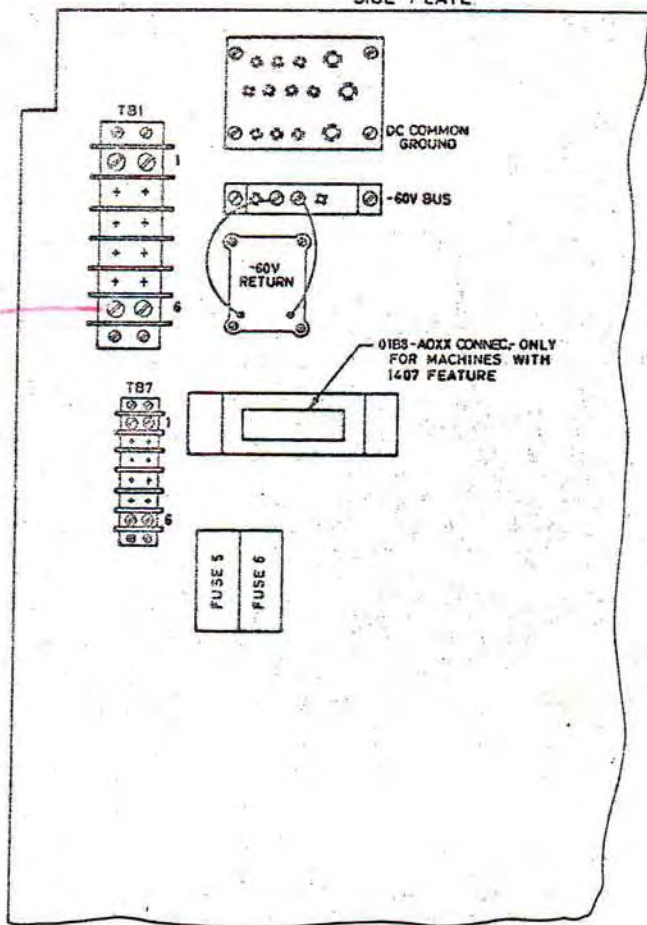
GATE LAYOUT 0188

FRONT PANEL



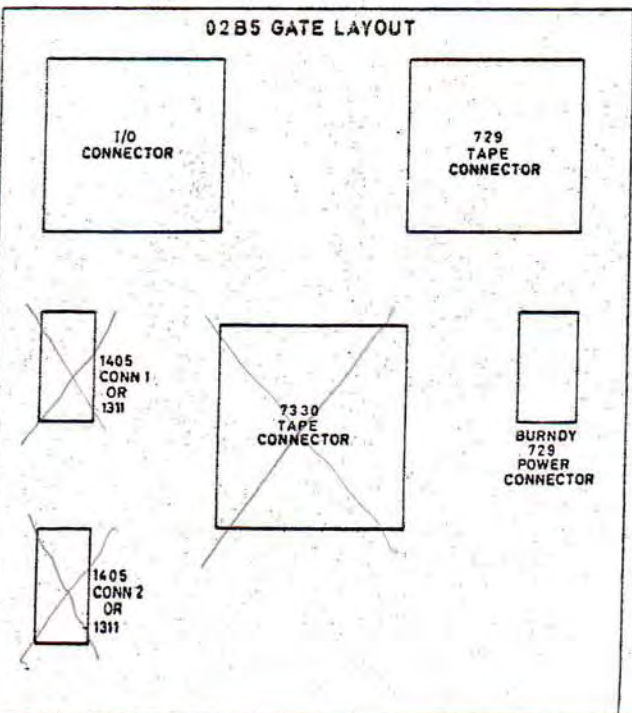
Carr. φB
Chain φC

SIDE PLATE



1403 φA

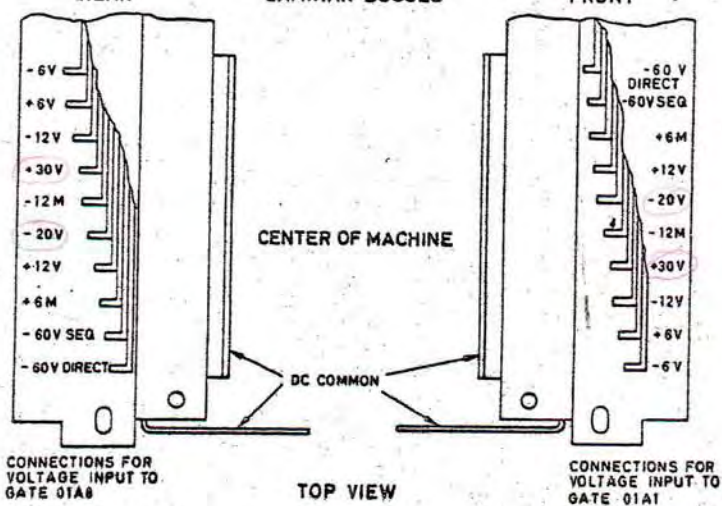
0285 GATE LAYOUT



REAR

LAMINAR BUSES

FRONT



IBM			
FIGURE	WIRING DIAGRAM - POW. SUPPLY		
MOD.	MOD. C, E OR MOD. F WITH TAPES		
MODEL	1401-C		
DATE	118.4.61		
DRAWN	/		

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	± 20 V AT 6 A	4 280 478
4 118 224	± 20 V AT 6 A	4 118 225
4 117 445	± 20 V AT 15 A	4 280 475
4 118 226	± 20 V AT 15 A	4 118 227
4 117 542	± 30 V AT 7 A	4 280 489
4 118 232	± 30 V AT 7 A	4 118 233
4 117 444	± 12 V AT 20 A	4 280 474
4 118 222	± 12 V AT 20 A	4 118 223
4 117 449	± 60 V AT 10 A	4 280 480
4 117 404	± 60 V AT 20 A	4 280 487

SMS O/V PROTECTION SCHEMATIC

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

SYM	INCH	EC	CHANGE NO	TAL	DATE	SYM	MICRO	EC	CHANGE NO	TAL	DATE
			37982E		20.8.62						

IBM	
GENERAL CHART	
FOR SMS POWER SUPPLY	
DESIGN	MODEL 1401
DETAIL	SCALE
CHECK	DRAW 12.7.62
APPRO	CHECK 3.8.62

SIMILAR TO 723 163

4280532

A

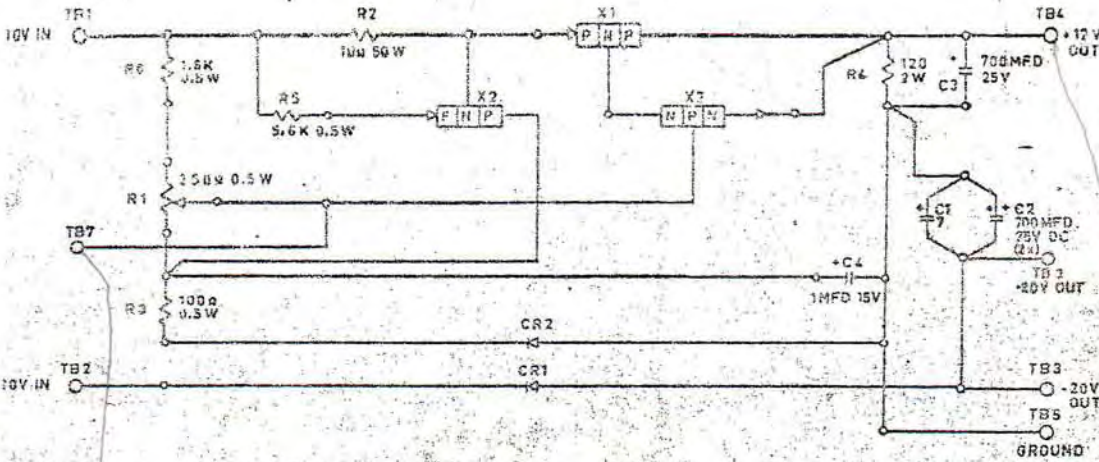
B

REFERENCE CHART FOR POWER SUPPLIES

OLD POWER SUPPLIES ASM				NEW POWER SUPPLIES ASM		
50 CYCLE			50 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	4 73 400
± 6V 12AMP	4 117 441	4 280 471	207 207	4 118 208	4 118 209	4 73 460
± 6V 16AMP	4 117 442	4 280 472	207 210	4 118 210	4 118 211	4 73 470
±12V 12 AMP	4 117 443	4 280 473	207 231	4 118 220	4 118 221	4 73 500
± 12V 16AMP	4 117 532	4 280 481	207 234	4 118 240	4 118 241	4 73 510
±12V 20AMP	4 117 444	4 280 474	203 258	4 118 222	4 118 223	4 73 380
± 20V 6AMP	4 117 448	4 280 478	207 237	4 118 224	4 118 225	4 77 220
± 30V 7AMP	4 117 542	4 280 489	210 090	4 118 232	4 118 233	4 73 560

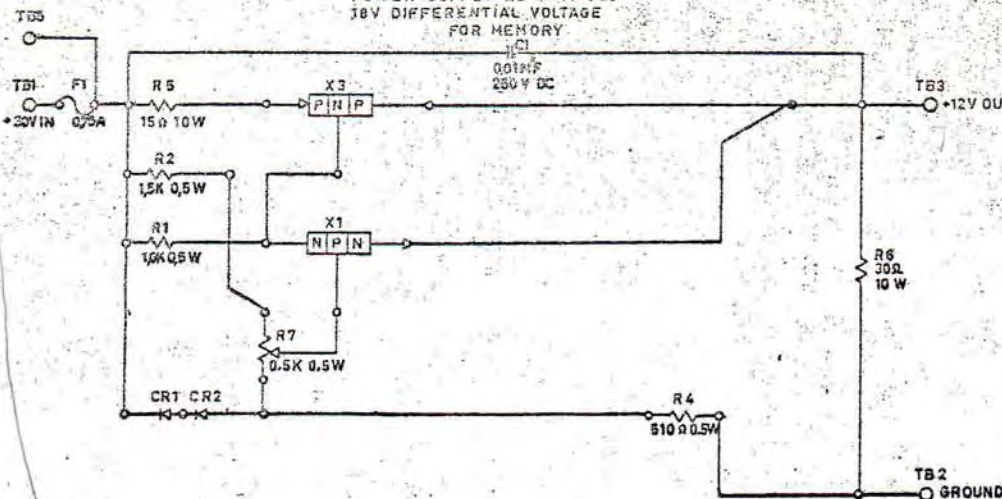
AMPLIFIER AND OVERVOLTAGE CARD				
NAME	OLD		NEW	
	AMPLIFIER CARD	O/V ASM	AMPLIFIER CARD	O/V CARD
± 3V 8 AMP MC	371656	—	—	—
± 6V 8 AMP	371656	208957	370612	370575
± 6V 12 AMP	371656	208957	370612	370575
± 6V 16 AMP	371656	208957	370612	370575
± 12V 12 AMP	371655	208960	370613	370576
± 12V 16 AMP	371655	208960	370613	370576
± 12V 20 AMP	371655	208960	370613	370576
± 20V 6 AMP	371656	208972	370607	370579
± 30V 7 AMP	371656	208967	370608	370578

POWER SUPPLY NO 4 117 533
 +12V AT 1.5 AMP
 +20V AT 80 MILS FILTERED



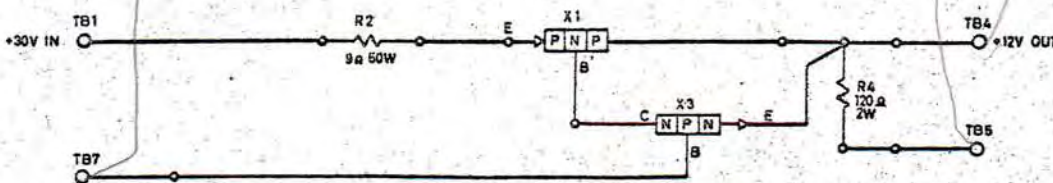
CODE	DESCRIPTION	PART NO
C1	CAP 700 MFD 25V DC	4 116 258
C2	CAP 700 MFD 25V DC	4 116 258
CR1	SI - RECTIFIER 100V 0.5A	4 116 793
CR2	DIODE (10V Zener)	4 116 305
R1	POT 250 ohm 0.5W	4 117 750
R2	RESISTOR 10 ohm 50W	4 117 050
R3	RESISTOR 100 ohm 0.5W	212 025
R4	RESISTOR 120 ohm 2W	4 117 745
R5	RESISTOR 5.6K 0.5W	317 030
R6	RESISTOR 1.5K 0.5W	317 018
X1	TRANSISTOR POWER PNP	833 441
X2	TRANSISTOR NPN	269 087
X3	TRANSISTOR NPN	209 001
C3	CAP 700 MF 25V DC	4 116 253
C4	CAP 1 MF 15V DC	4 116 272

POWER SUPPLY NO 4 117 533
 18V DIFFERENTIAL VOLTAGE
 FOR MEMORY



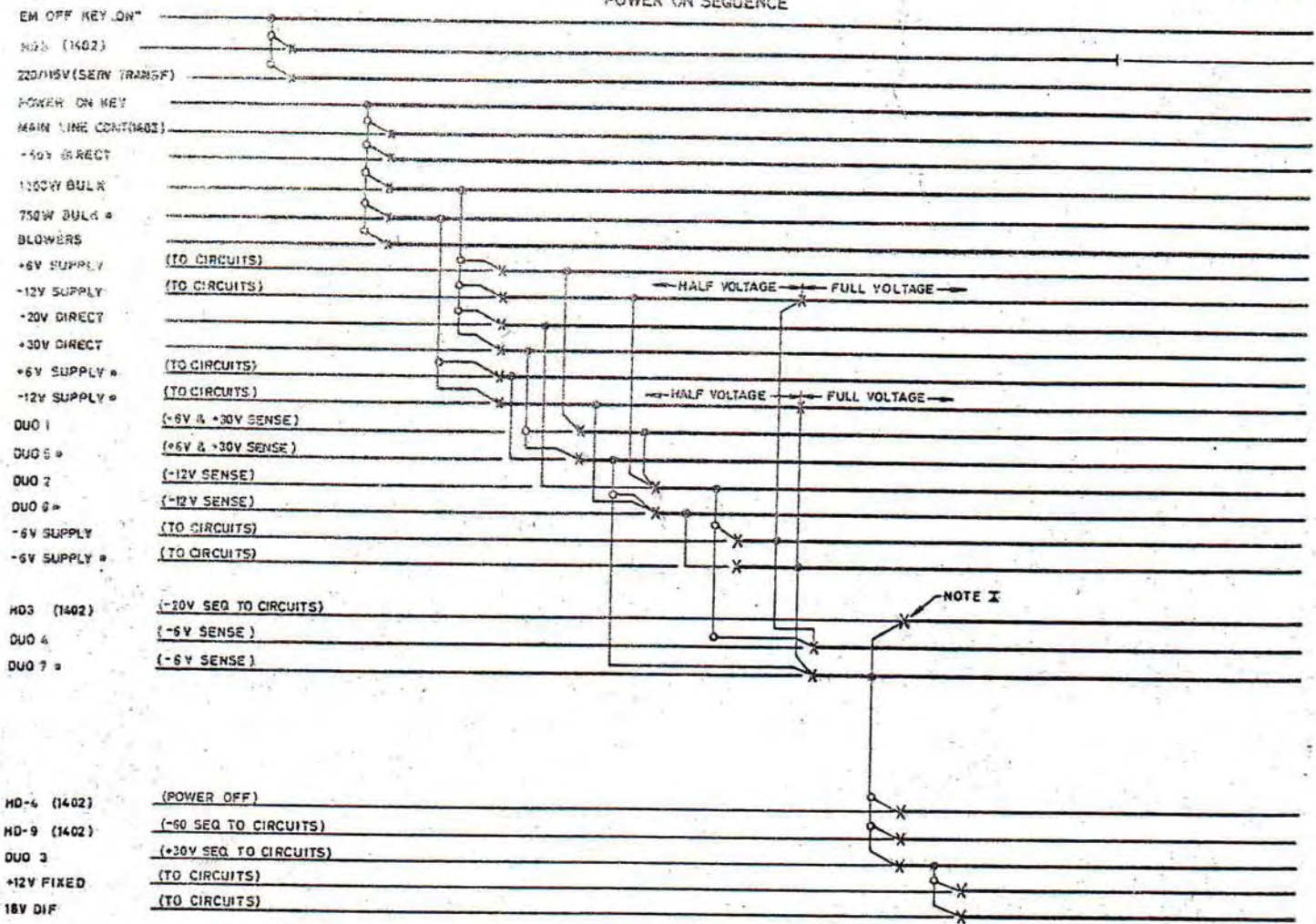
CODE	DESCRIPTION	PART NO
C1	CAP 001 MF 250V DC	4 116 257
CR1	DIODE (10V Zener)	4 116 305
CR2	DIODE (10V Zener)	4 116 305
R1	RESISTOR 1K 0.5W	212 093
R2	RESISTOR 1.5K 0.5W	317 017
R4	RESISTOR 510 ohm 0.5W	317 012
R5	RESISTOR 15 ohm 10W	4 117 673
R6	RESISTOR 30 ohm 10W	4 117 674
R7	RESISTOR 0.5K 0.5W	4 117 735
F1	FUSE 0.75A	111 255
X1	TRANSISTOR NPN	269 087
X3	TRANSISTOR POWER PNP	209 001

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

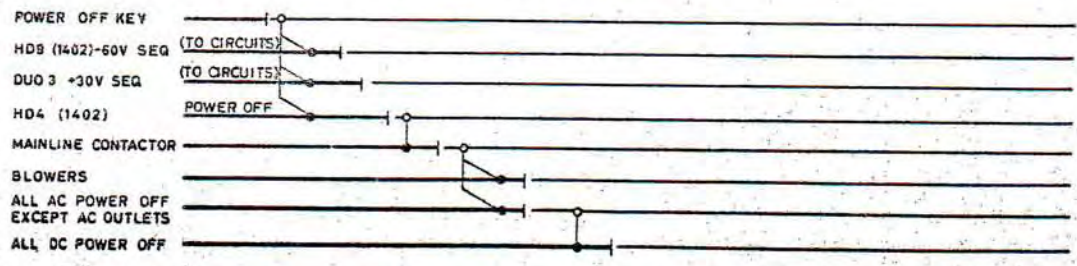


CODE	DESCRIPTION	PART NO
R2	RESISTOR 9 ohm 50W	4 117 698
R4	RESISTOR 120 ohm 2W	4 117 745
X1	TRANSISTOR PNP	209 001
X3	TRANSISTOR NPN	4 116 304

1401-1402 POWER ON SEQUENCE



1401-1402 POWER OFF SEQUENCE



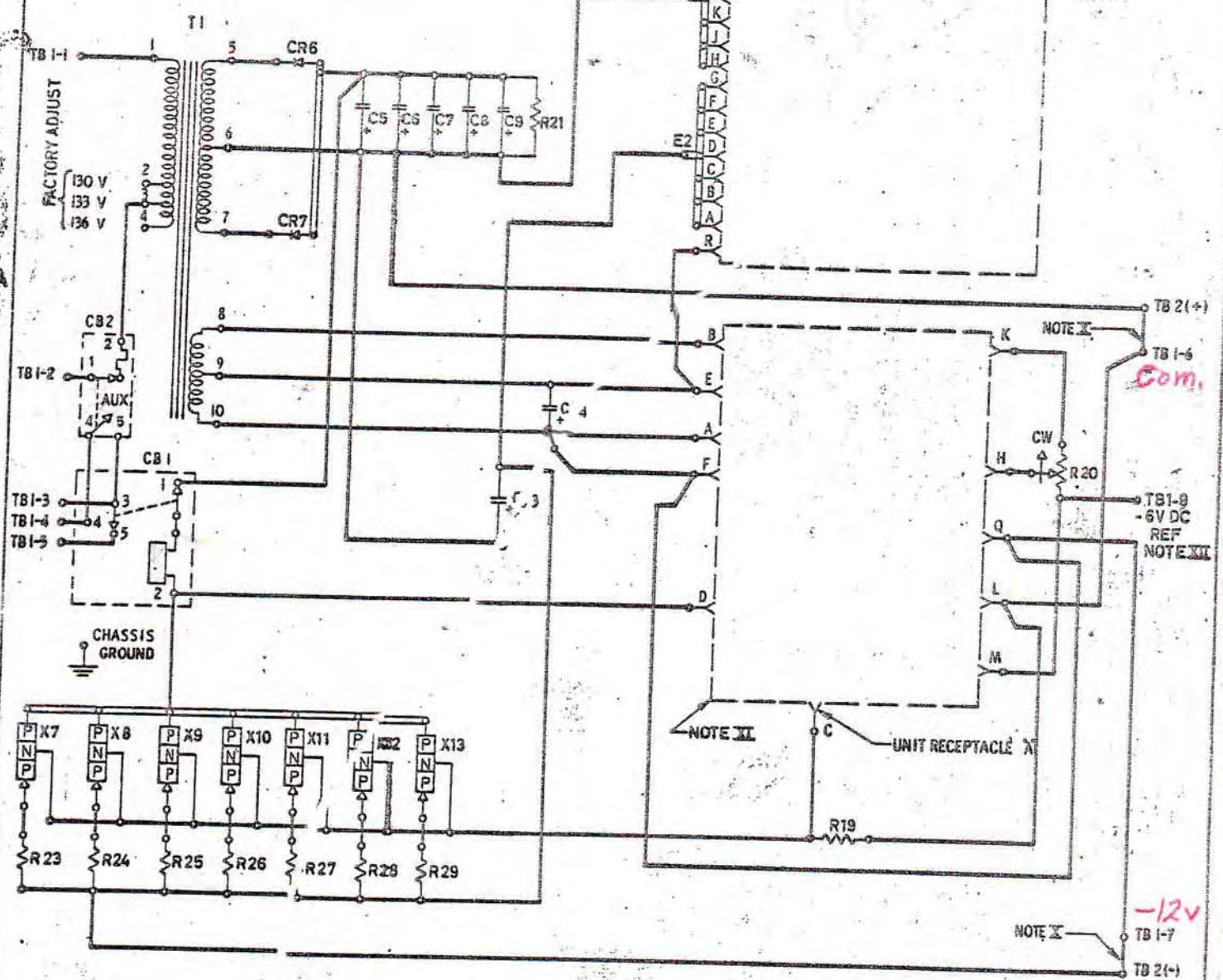
NOTE X FOR SYSTEM MACHINES WITH INCREASED CORE STORAGE, THIS POINT ALSO SENSES THE 1406 +30V SENSE RELAY HD-17 FAILURE OF THE 1406 +30V SUPPLY WILL NOT ALLOW THE 1401-1402 TO SEQUENCE ANY FURTHER.

* EXPANDED (SUPPLIES IN GATES 02A3 AND 02A6)

02A6, 02A5

UNIT RECEPTACLE 'V'

O. V. CARD ASSEMBLY 370 576



NOTES

- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
- II FOR REFERENCE TO GROUND USE COMPONENT CARD ASSEMBLY 370 510
- III FOR REFERENCE TO -6V DC USE COMPONENT CARD ASSEMBLY 370613

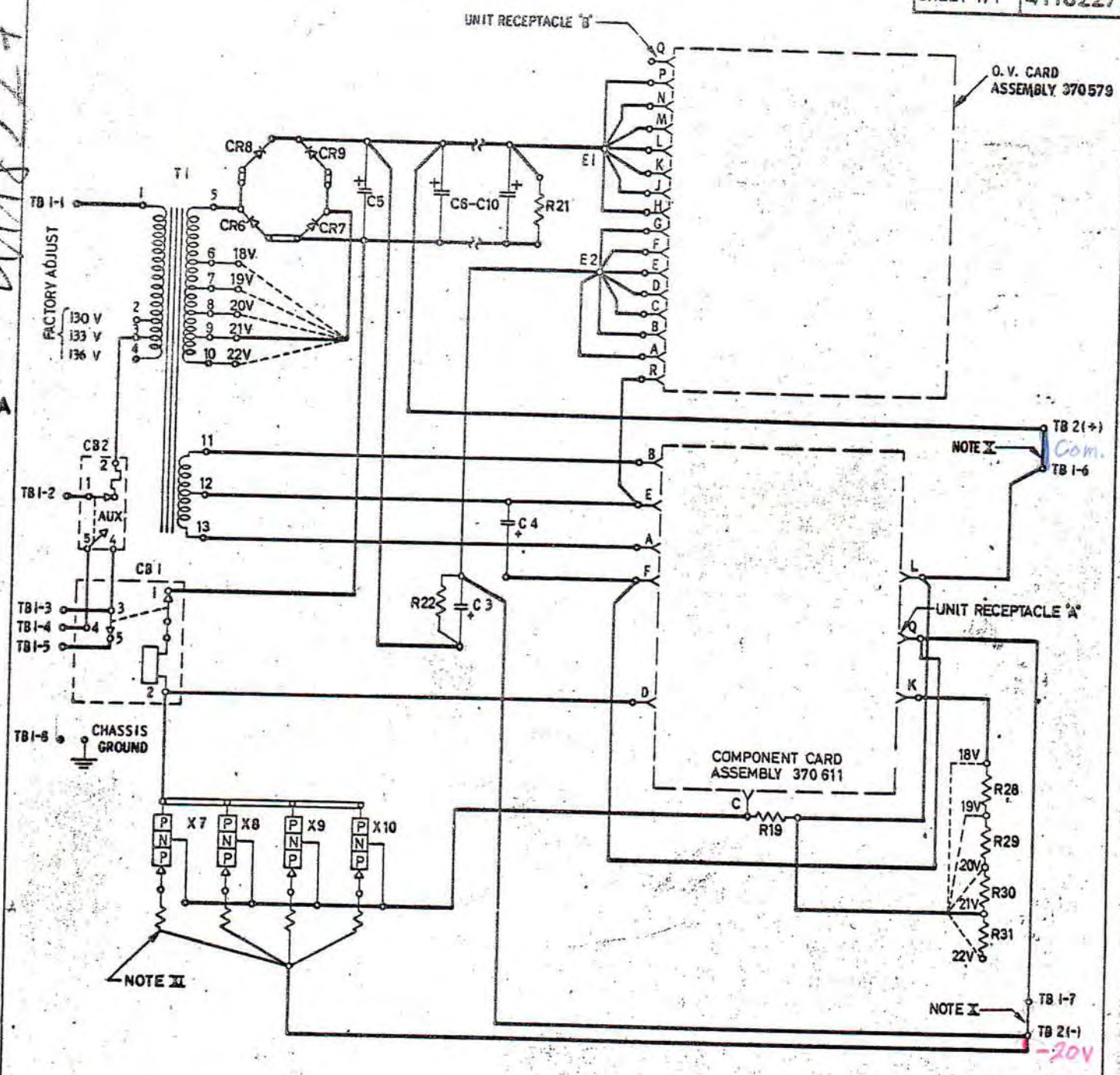
COMPONENT CHART			
CODE	DESCRIPTION	CODE	DESCRIPTION
C3	CAP. 5 500 MFD 20V DC	R 20	POTENTIOMETER 250 OHM 0.5 W
C4	CAP. 700 MFD 25V DC	R 21	RESISTOR 75 OHM 10W
C5-9	CAP. 11000 MFD 20V DC	R23-29	RESISTANCE WIRE 0.1 OHM
CB1	CIRCUIT BREAKER	T1	TRANSFORMER
CB2	CIRCUIT BREAKER	TB1	TERMINAL BLOCK
CR6-7	DIODE	TB2	TERMINAL BLOCK
E1-2	BUS PLATE	X7-13	TRANSISTOR TYPE 108
A & B	RECEPTACLE		
R19	RESISTOR 20 0 OHM 2W		

SIMILAR TO 473 381 D

REV	MICRO FILM	EC	CHANGED BY	DATE	SYM	MICRO FILM	EC	CHANGED BY	DATE
				37982E 20.8.62					
				7653 29.11.62					
				7774 7.3.63					

IBM			
WIRING DIAGRAM - POWER SUPPLY			
12V DC AT 20A 50 CY/s			
DESIGN	MODEL	DATE	1068
DRAWN	CHECK	DATE	9.7.62
APPR.	CHECK	DATE	3.2.62

4118227



NOTE II

NOTE I

-20V

COMPONENT CHART					
CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 10 000 MFD 30V DC			
C4		CAP. 700 MFD 25V DC	R 21		RESISTOR 50 OHM 35W
C5-10		CAP. 10 000 MFD 30V DC	R 22		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
- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
 - II RESISTANCE WIRE 0.1 OHM EACH (5x)

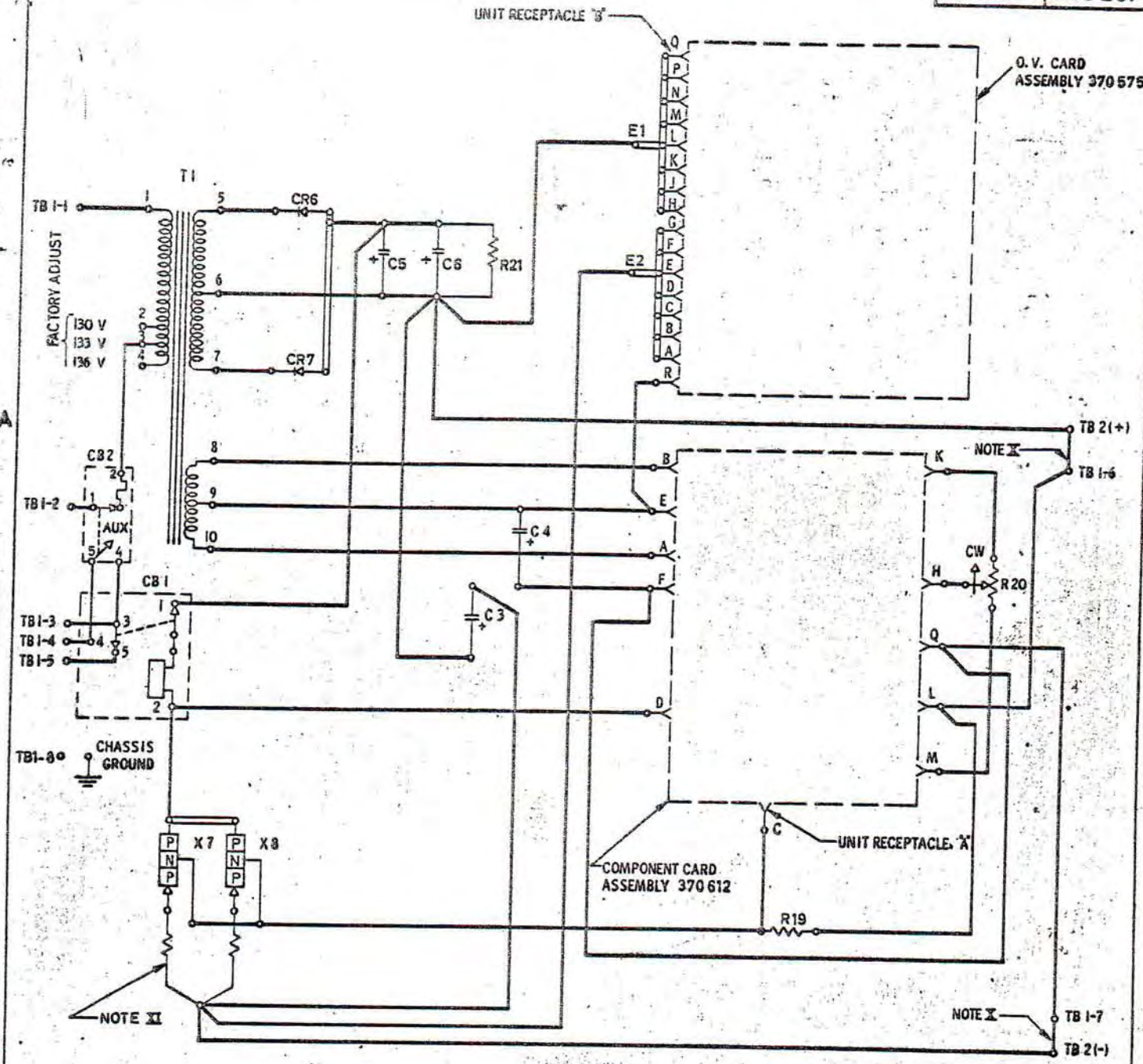
SIMILAR TO 473431 D

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

1402

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

4118207



NOTES

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

COMPONENT CHART

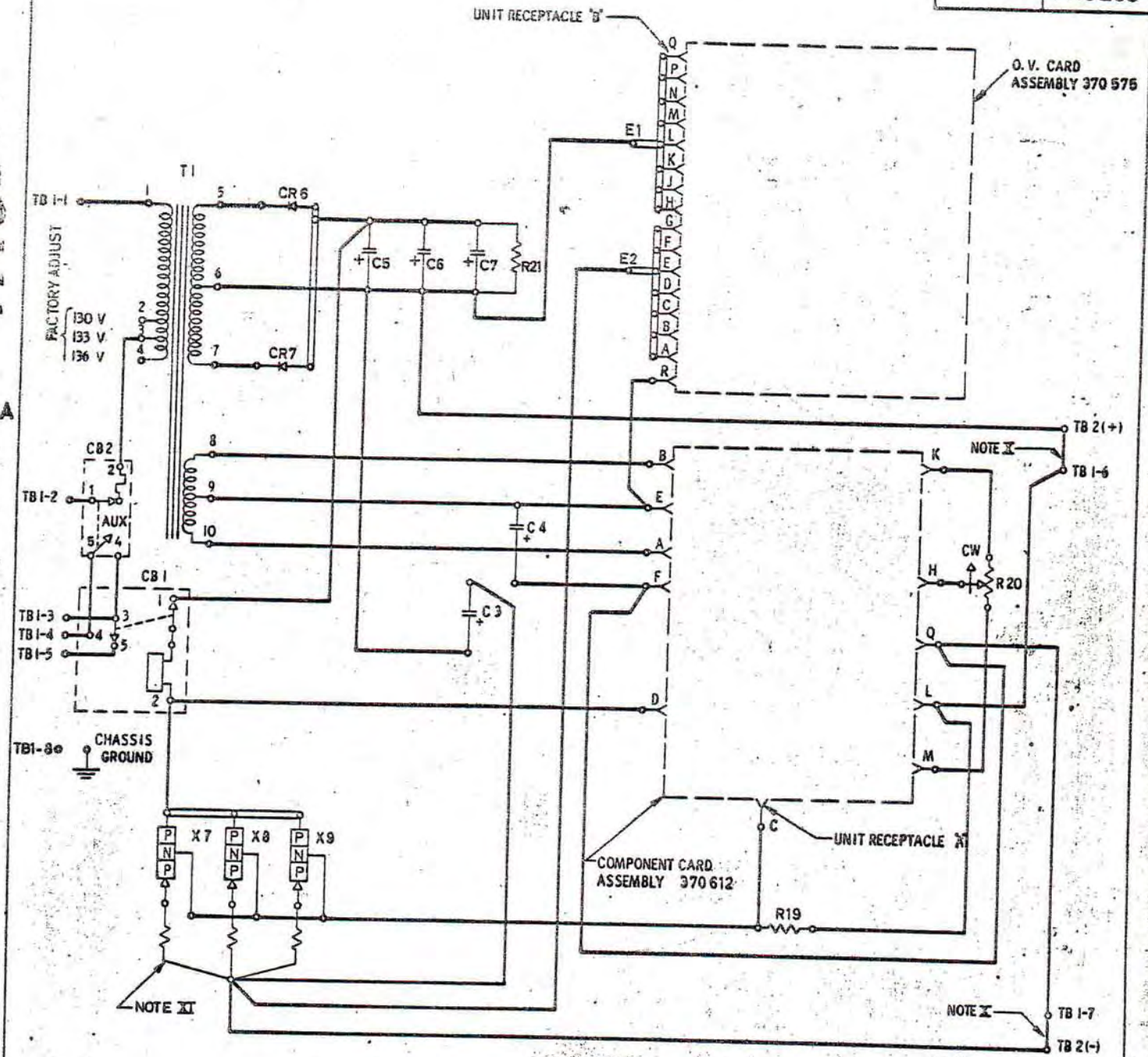
CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 8000 MFD 12V DC	R20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP. 700 MFD 25V DC	R21		RESISTOR 100 OHM 2W
C5-6		CAP. 15000 MFD 13V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T1		TRANSFORMER
CR6-7		DIODE	TB1		TERMINAL BLOCK
E1-2		BUS PLATE	TB2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-8		TRANSISTOR TYPE 108
R19		RESISTOR 100 OHM 2W			

SIMILAR TO 473401C

SYM	MICRO FILM	EC	CHANGE-NO	TR.	DATE	SYM	MICRO FILM	EC	CHANGE-NO	TR.	DATE
			37982E		20.8.62						
			1774-B		29.3.53						

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

4118209



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 5W
C5-7		CAP. 15000 MFD 13V DC			
CB1		CIRCUIT BREAKER	T1		TRANSFORMER
CB2		CIRCUIT BREAKER	TB1		TERMINAL BLOCK
CR6-7		DIODE	TB2		TERMINAL BLOCK
E1-2		BUS PLATE	X7-9		TRANSISTOR TYPE 108
A & B		RECEPTACLE			
R19		RESISTOR 100 OHM 2W			

NOTES

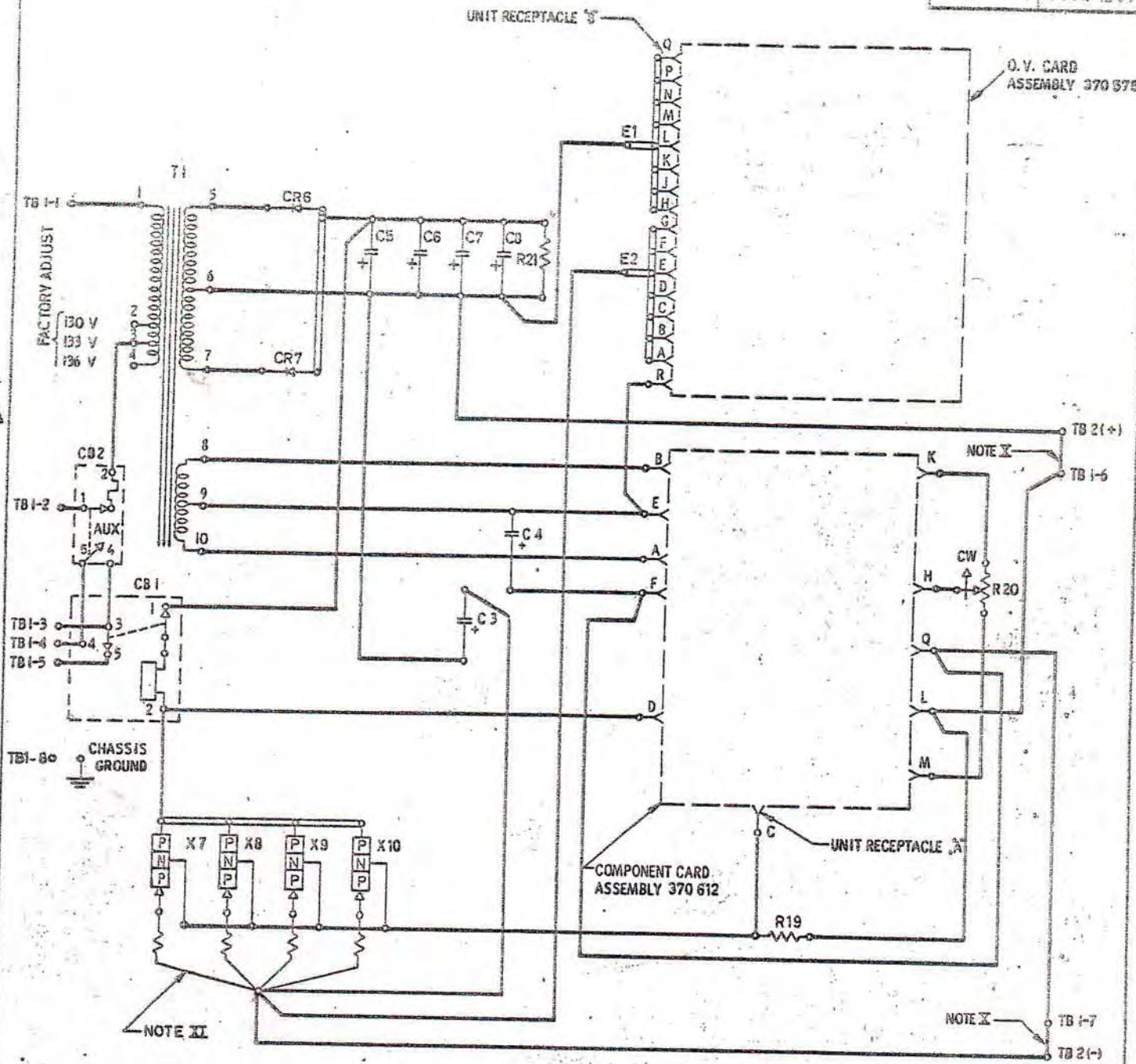
- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
- II RESISTANCE WIRE 0.1 OHM EACH (3x)

SIMILAR TO 473 461 C

SYM	REC'D	EC	CHANGE-NO	DATE	SYM	REC'D	EC	CHANGE-NO	DATE
			1774 B	29.3.63					
			379 82 E	20.3.62					

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
6 V DC AT 12 A 50CY/S	
DESIGN	MODEL 8068
DETAL	
CHECK	DATE 1.8.62
APPR	CHECK 3.8.62

4118 211



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 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 (4x)

SIMILAR TO 473 471 D

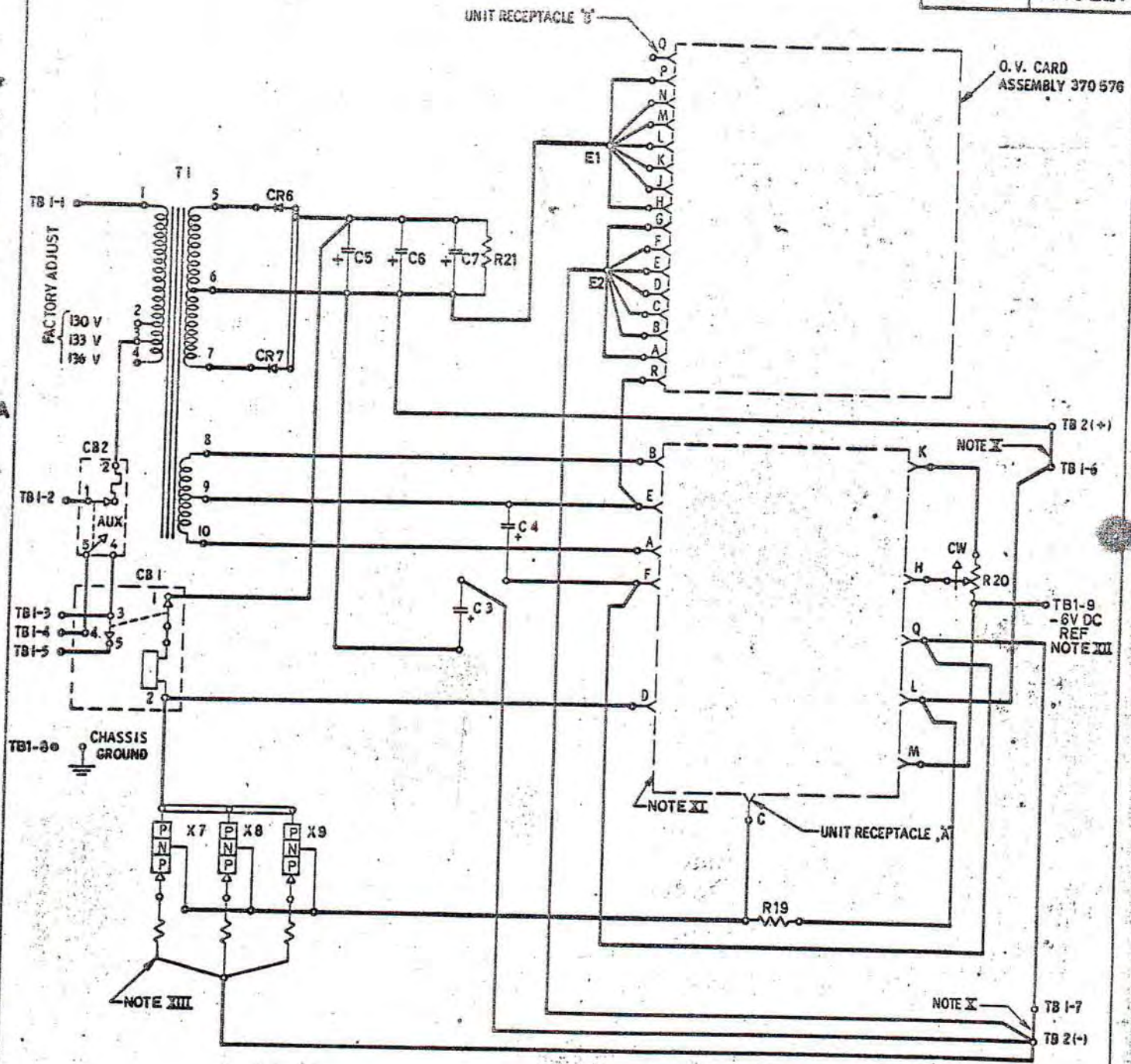
DATE	INSTR. FILED	BY	CHANGE-NO	DATE	DATE	INSTR. FILED	BY	CHANGE-NO	DATE
			37982 E	20.2.62					
			1774 B	29.3.63					

IBM

WIRING DIAGRAM - POWER SUPPLY
6V DC AT 16A 50 CVT/s

DESIGN	MODEL	3065
DRAWN	DATE	
CHECK	DATE	1.9.62
APPRO.	DATE	2.8.62

4118221



COMPONENT CHART

CODE	PART-NO	DESCRIPTION	CODE	PART-NO	DESCRIPTION
C3		CAP. 11000 MFD 20V DC	R 20		POTENTIOMETER 250 OHM 0.5 W
C4		CAP. 700 MFD 25V DC	R 21		RESISTOR 100 OHM 10 W
C5-7		CAP. 11000 MFD 20V DC			
CB1		CIRCUIT BREAKER			
CB2		CIRCUIT BREAKER	T 1		TRANSFORMER
CR6-7		DIODE	TB1		TERMINAL BLOCK
E1-2		CONNECTOR	TB 2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-9		TRANSISTOR TYPE 108
R 19		RESISTOR 200 OHM 2W			

NOTES

- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB I-6 AND TB I-7
- II 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 473501C

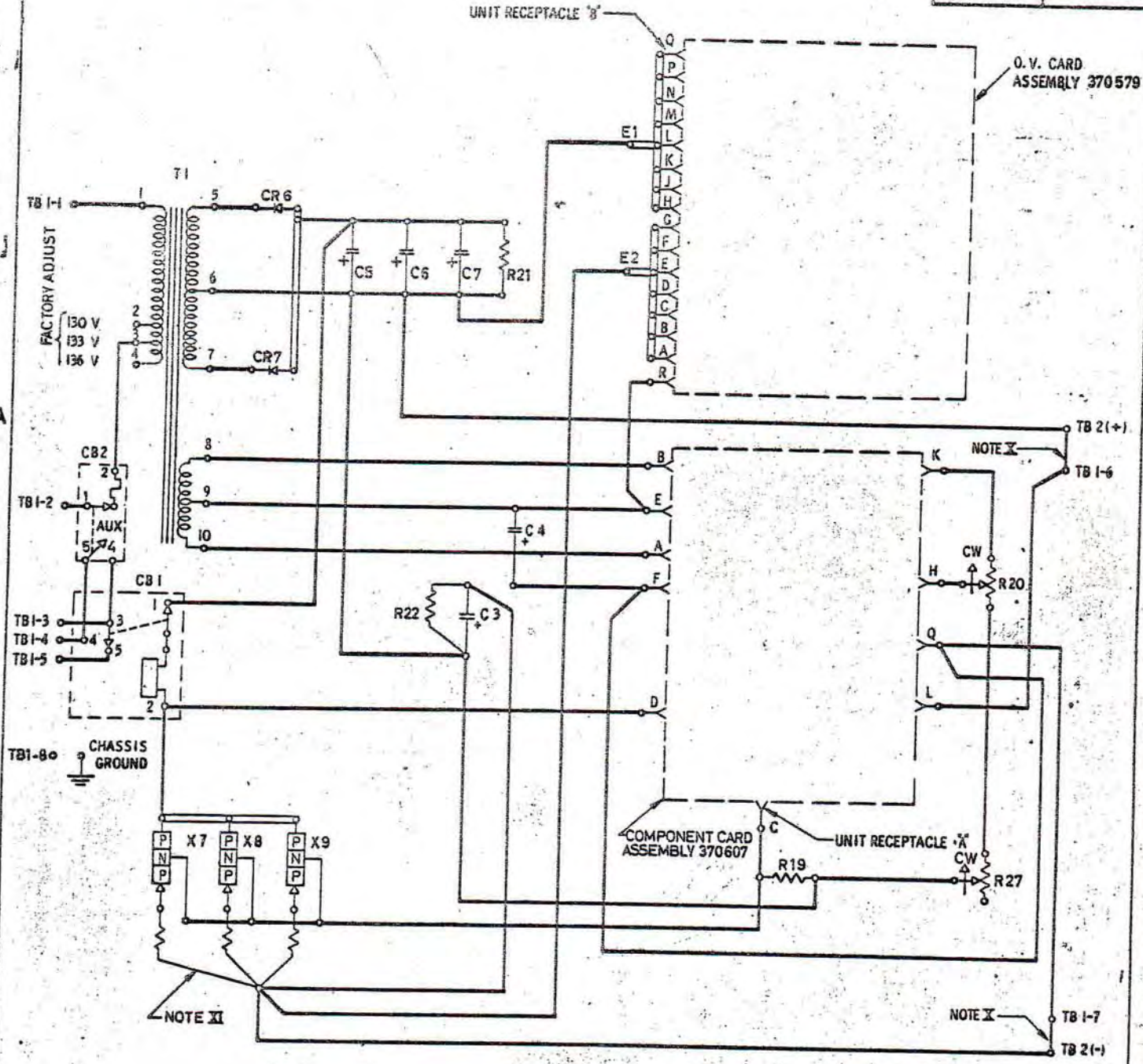
SYN	INCRD	CHARGE-NO	TA	DATE	SYN	INCRD	CHARGE-NO	TA	DATE
			37982E	20.8.62					
			1774A	7.3.63					

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
12V DC AT 12A 50 CY/s	
DESIGN	MODEL 8068
DETAIL	SCALE
CHECK	DRAW 11.7.62
APPRO	CHECK 3.8.62

077017R

UNIT RECEPTACLE 'B'

O.V. CARD ASSEMBLY 370579



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. 10000 MFD 30V DC	R 22		RESISTOR 220 OHM 5 W
CR6-7		DIODE	R 27		POTENTIOMETER 2,5K 1,5W
CB1		CIRCUIT BREAKER	T 1		TRANSFORMER
CB2		CIRCUIT BREAKER	TB1-		TERMINAL BLOCK
E1-2		BUS PLATE	TB2		TERMINAL BLOCK
A & B		RECEPTACLE	X7-9		TRANSISTOR TYPE 108
R 19		RESISTOR 250 OHM 5 W			

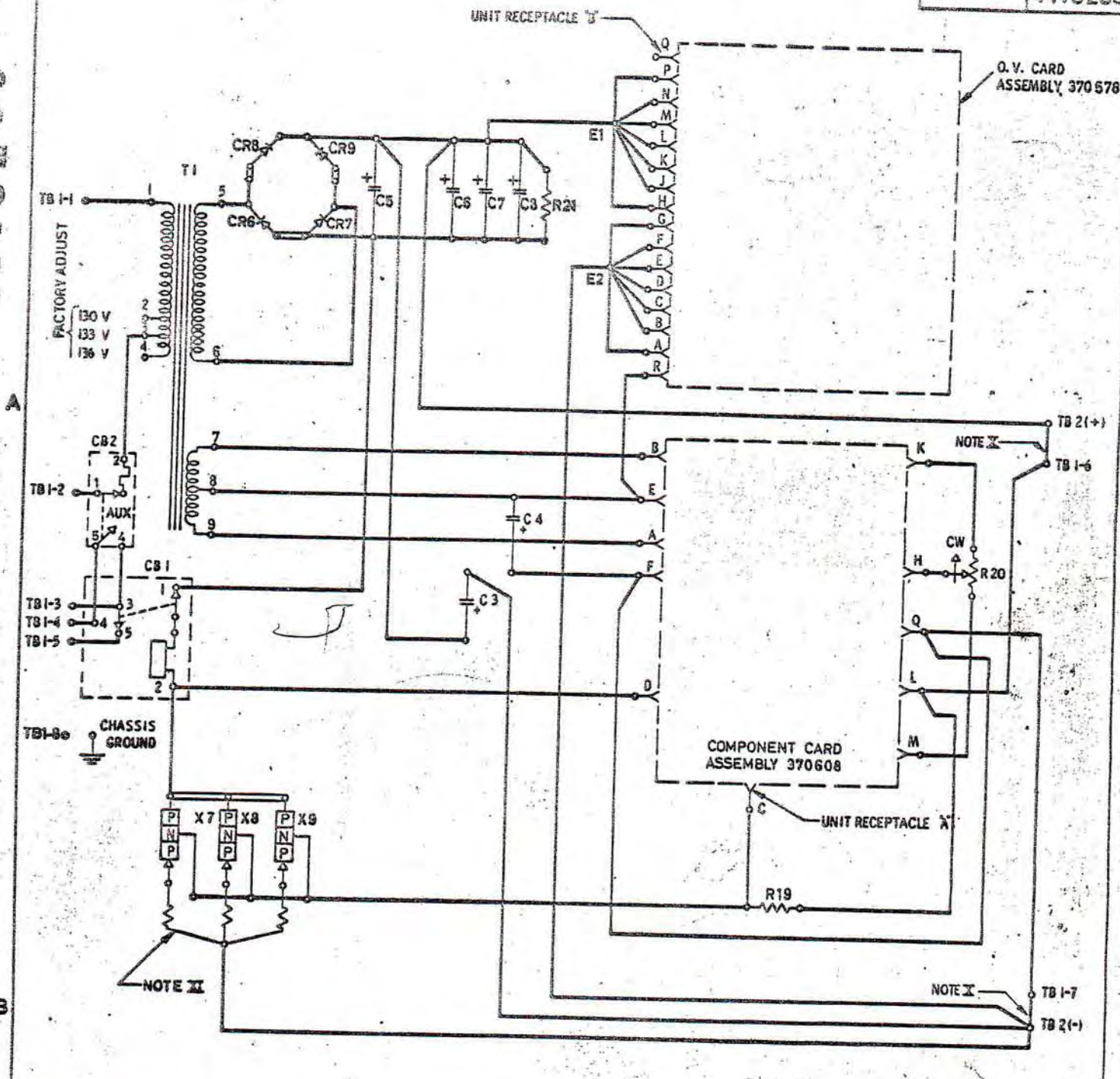
- NOTES
- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
 - II RESISTANCE WIRE 0.1OHM EACH (4x)
 - XI

SIMILAR TO 477221 C

SYM	MICRO	SC.	CHANGE NO	DATE	SYM	MICRO	SC.	CHANGE NO	DATE
			379225	20.8.62					
			17743	29.3.62					

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
20V DC AT 6A 50 CY/S	
DESIGN	MODEL 8068
DETAIL	ICAD
CHECK	DRAWN 1.8.62
APPRO	CHECKED 3.8.62

4118233



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. 5000 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			

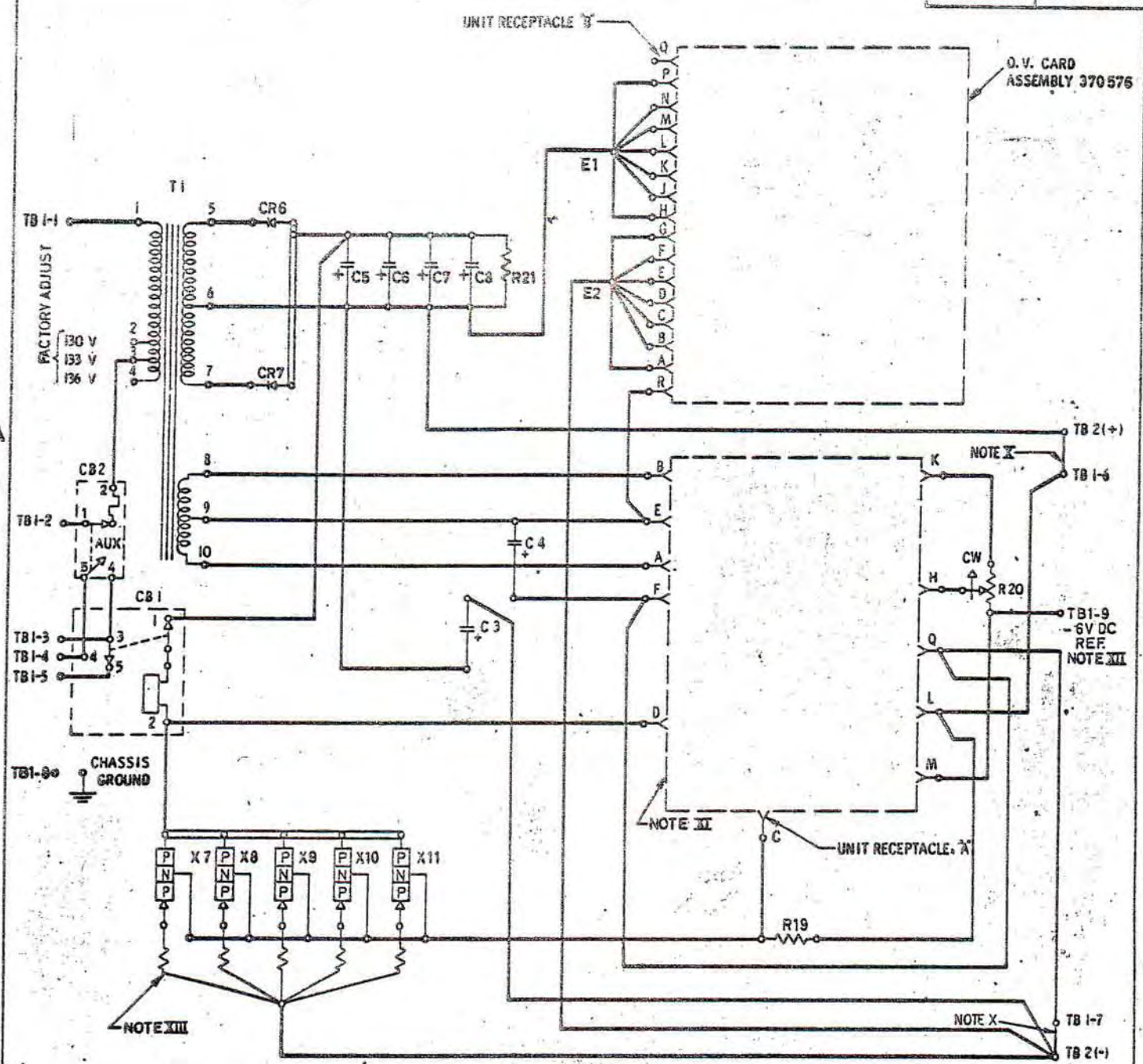
- NOTES:
- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
 - II RESISTANCE WIRE 0.1 OHM EACH (5R)

SIMILAR TO 473 561C

SYN	MICRO	FILE	EC	CHANGE-NO	DATE	SYN	MICRO	FILE	EC	CHANGE-NO	DATE
				37982 E	20.8.62						
				17774 A	7.3.63						

IBM	
NAME WIRING DIAGRAM-POWER SUPPLY	
30V DC AT 7A 50CY/s	
DESIGN	MODEL 8068
DETAIL	REV
DATE	11.7.62
BY	3.8.62

411071



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	T1		TRANSFORMER
CB2		CIRCUIT BREAKER	TB1		TERMINAL BLOCK
CR6-7		DIODE	TB2		TERMINAL BLOCK
E1-2		CONNECTOR	X7-11		TRANSISTOR TYPE 108
A & B		RECEPTACLE			
R19		RESISTOR 200 OHM 2W			

- NOTES
- I FOR REMOTE SENSING REMOVE JUMPERS INDICATED AND SENSE BETWEEN TB 1-6 AND TB 1-7
 - II FOR REFERENCE TO GROUND USE COMPONENT CARD ASSEMBLY 370610
 - III FOR REFERENCE TO -6V DC USE COMPONENT CARD ASSEMBLY 370613
 - IV RESISTANCE WIRE 0.1 OHM EACH (5x)

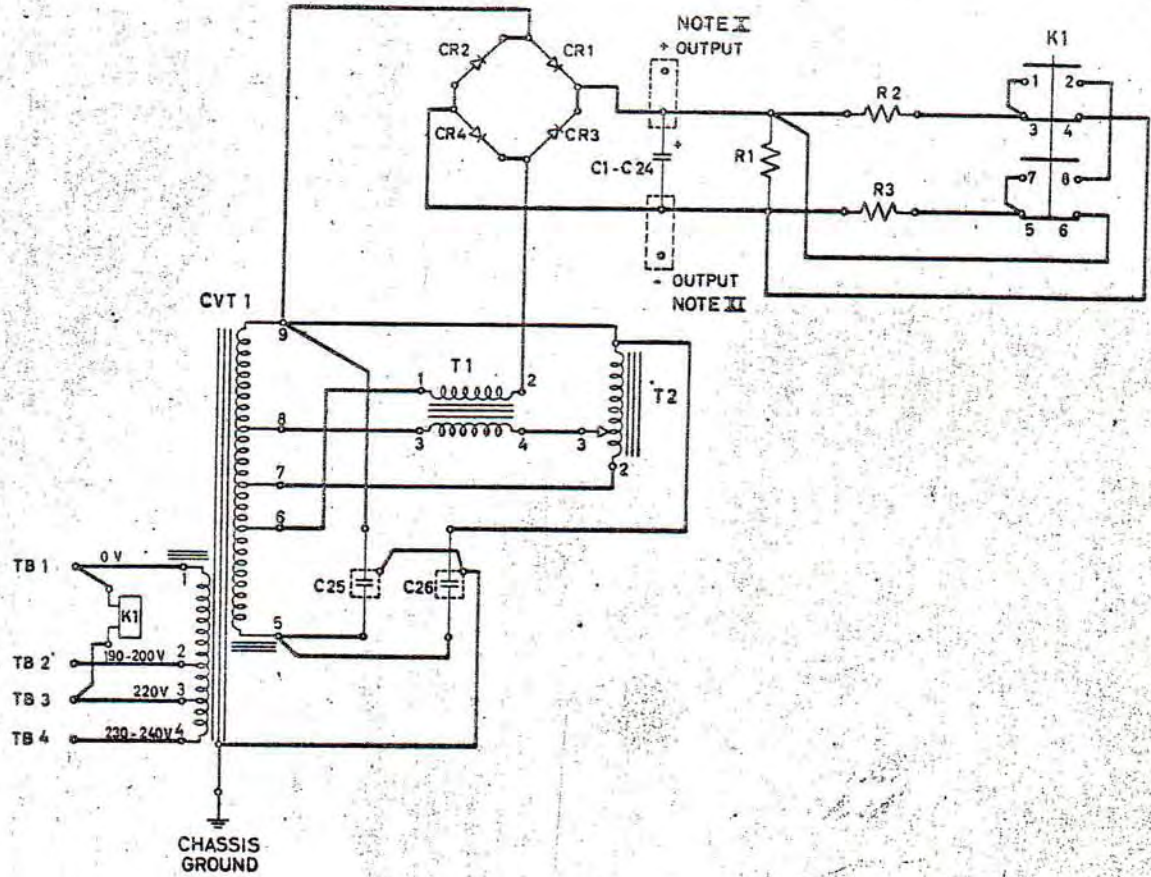
SIMILAR TO 473 511 C

DATE	MICRO FILED	EC	CHANGE-NO	Td.	DATE	DATE	MICRO FILED	EC	CHANGE-NO	Td.	DATE
					37922E	20.8.62					
					1274A	7.3.63					

IBM	
NAME	WIRING DIAGRAM-POWER SUPPLY
	12V DC AT 16A 50 CY/5
DESIGN	8068
CHECK	11.7.62
APPROV	3.8.62

4280480

DATE	CHANGE NO.
20.9.60	TA-37500A
13.9.61	TA-37854



NOTE I
+ OUTPUT
- OUTPUT
NOTE II

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

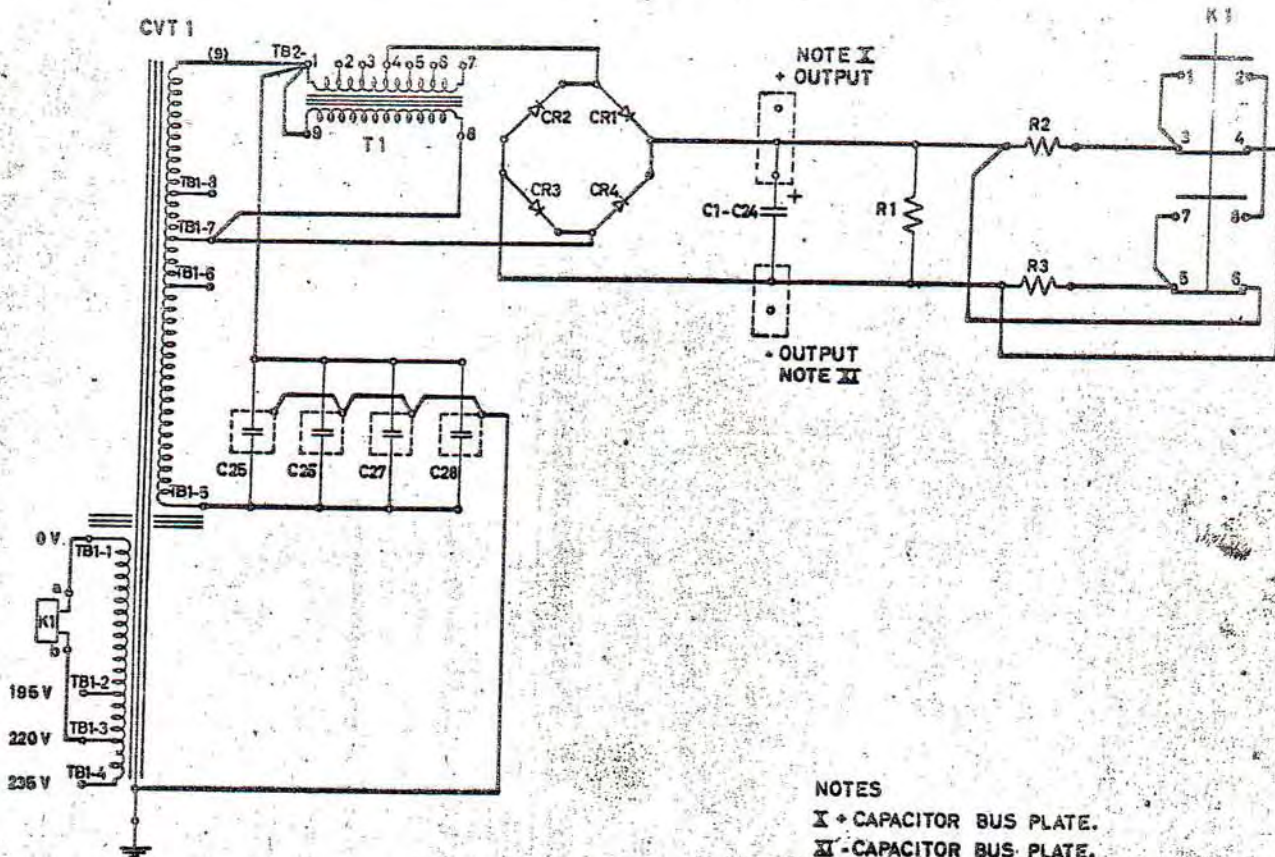
NOTES
I - CAPACITOR BUS PLATE.
II - CAPACITOR BUS PLATE.

4280480

IBM			
NAME	WIRING DIAGRAM-POWER SUPPLY		
	± 60V DC AT 10A (50 CY/s)		
DESIGN		MODEL	
DETAIL.		SCALE	
CHECK		DRAW.	27.1.60
APPRO.		CHECK.	38.2.60

SIMILAR TO 220903

76800874



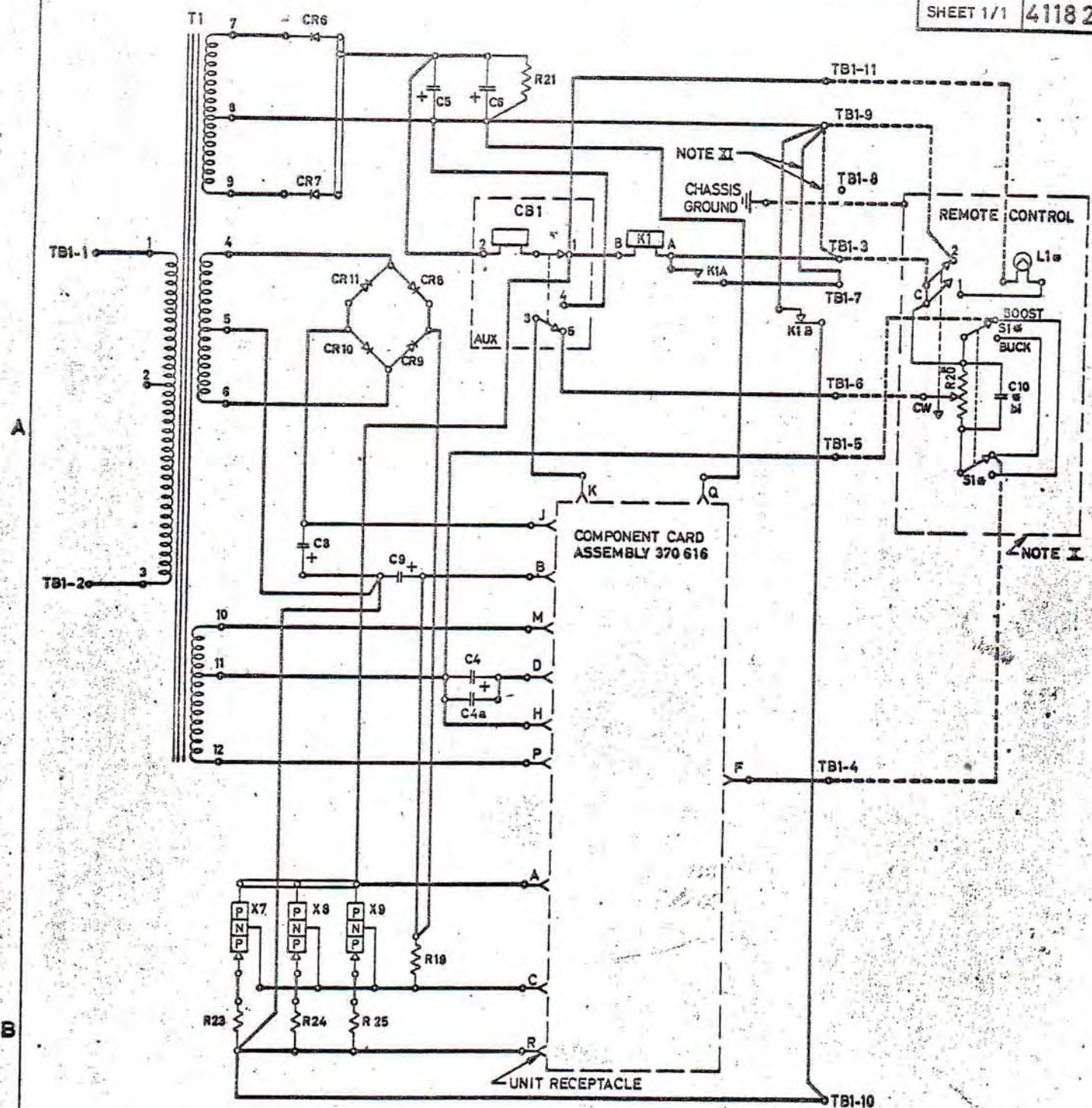
NOTES
 I - CAPACITOR BUS PLATE.
 II - CAPACITOR BUS PLATE.

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
R1	4 117 742	RESISTOR 150 OHM 35W
R2+R3	4 117 741	RESISTOR 50 OHM 35W
K1	4 116 890	CONTACTOR

SIMILAR TO 699 208

- IBM					- IBM							
NAME	SYN	INSTR	CHARGE-NO	DATE	SYN	INSTR	CHARGE-NO	DATE	SYN	INSTR	CHARGE-NO	DATE
WIRING DIAGRAM POWER -			1131	31.1.62								
SUPPLY 3 60V AT 20A (30CV/5)												
DET		MOD	3069									
CHECK		DRAW	#op: 22,9,61									
APPROV		CHECK										

4118 201



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	
C10 *	CAP. 50 MFD 12V DC bipolar	S1 #	TRANSFORMER
CB1	CIRCUIT BREAKER	T1	TERMINAL BLOCK
CR6+7	DIODE	X7-9	TRANSISTOR TYPE 108
CR8-11	DIODE		
K1	RELAY	L1 #	
R19	RESISTOR 510 OHM 0.5W		

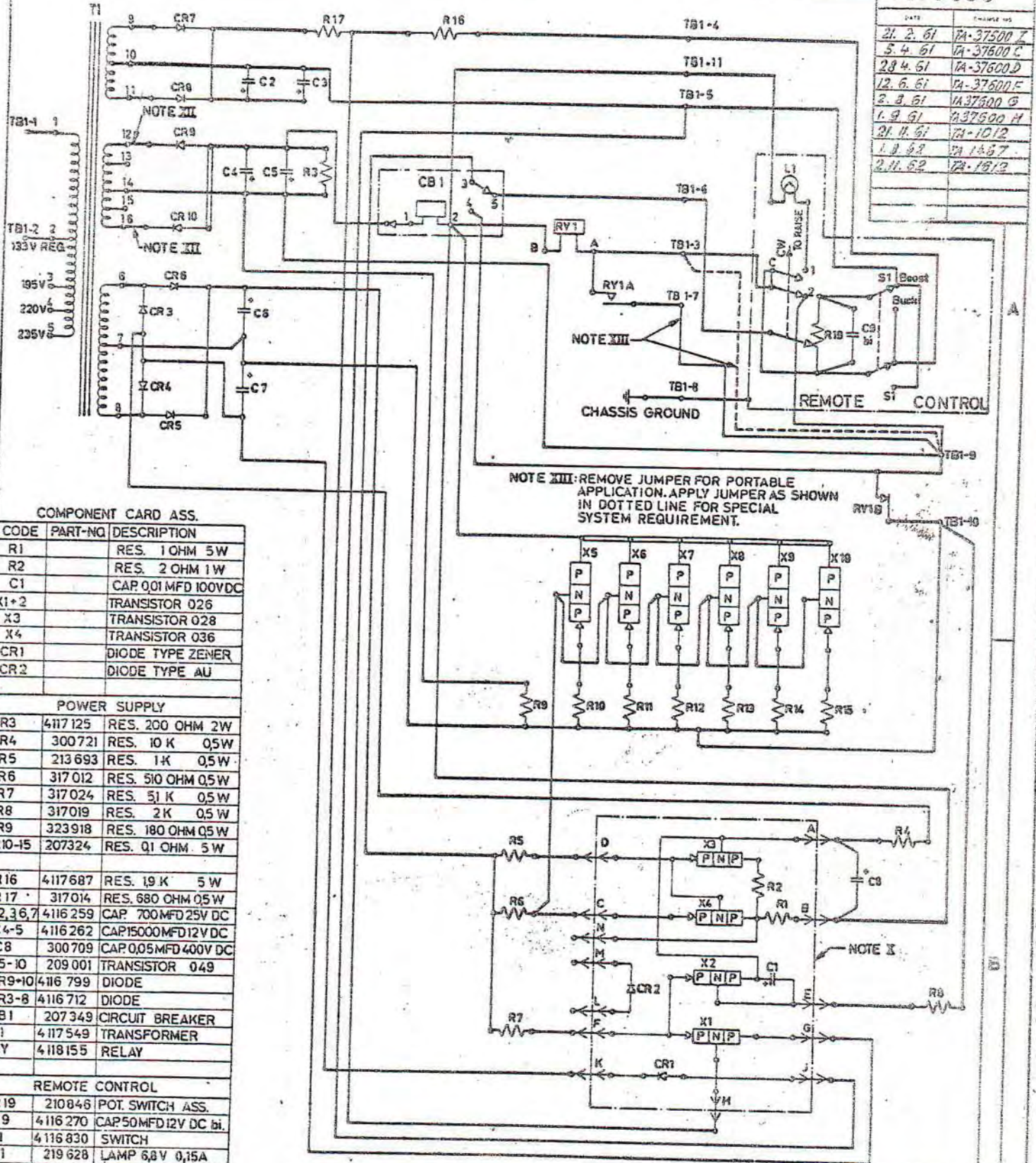
NOTE
 X-REMOTE CONTROL ASSEMBLY CONSISTING OF 210 846 (POT-SWITCH ASM) AND 4116 830 (SWITCH), SUPPLIED WITH PORTABLE UNIT ONLY
 * COMPONENT ON REMOTE ASSEMBLY
 XI-REMOVE JUMPER FOR PORTABLE APPLICATION APPLY JUMPER AS SHOWN WITH DOTTED LINE FOR SPECIAL SYSTEM REQUIREMENT.

SIMILAR TO 477 281A

SYM	MICRO	EC	CHANGE-NO	DATE	SYM	MICRO	EC	CHANGE-NO	DATE
			37982 E	20.8.62					
			37982 F	26.9.62					
			1653	29.11.62					
			1774	7.3.63					
			1906	25.7.63					

IBM			
WIRING DIAGRAM-POWER SUPPLY			
3V DC AT 5A MC 50 CY/S			
DESIGN	MOOD	8068	
DETAIL	SCALE		
CHECK	DRAW	3.7.62	
APPROV	CHECK	3.8.62	

DATE	CHANGE NO.
21. 2. 61	TA-37500 Z
5. 4. 61	TA-37500 C
28. 4. 61	TA-37500 D
12. 6. 61	TA-37500 E
2. 8. 61	TA-37500 G
1. 9. 61	TA-37500 H
21. 11. 61	TA-1012
1. 8. 62	TA-1457
2. 11. 62	TA-1812



NOTE III: REMOVE JUMPER FOR PORTABLE APPLICATION. APPLY JUMPER AS SHOWN IN DOTTED LINE FOR SPECIAL SYSTEM REQUIREMENT.

COMPONENT CARD ASS.

CODE	PART-NO	DESCRIPTION
R1		RES. 1 OHM 5W
R2		RES. 2 OHM 1W
C1		CAP. 0.01 MFD 100VDC
X1+2		TRANSISTOR 026
X3		TRANSISTOR 028
X4		TRANSISTOR 036
CR1		DIODE TYPE ZENER
CR2		DIODE TYPE AU

POWER SUPPLY

R3	4117125	RES. 200 OHM 2W
R4	300721	RES. 10 K 0.5W
R5	213693	RES. 1K 0.5W
R6	317012	RES. 510 OHM 0.5W
R7	317024	RES. 51 K 0.5W
R8	317019	RES. 2K 0.5W
R9	323918	RES. 180 OHM 0.5W
R10-15	207324	RES. 0.1 OHM 5W

R16	4117687	RES. 19 K 5W
R17	317014	RES. 680 OHM 0.5W
C2,3,6,7	4116259	CAP. 700MFD 25V DC
C4-5	4116262	CAP. 15000MFD 12V DC
C8	300709	CAP. 0.05MFD 400V DC
X5-10	209001	TRANSISTOR 049
CR9+10	4116799	DIODE
CR3-8	4116712	DIODE
CB1	207349	CIRCUIT BREAKER
T1	4117549	TRANSFORMER
RY	4118155	RELAY

REMOTE CONTROL

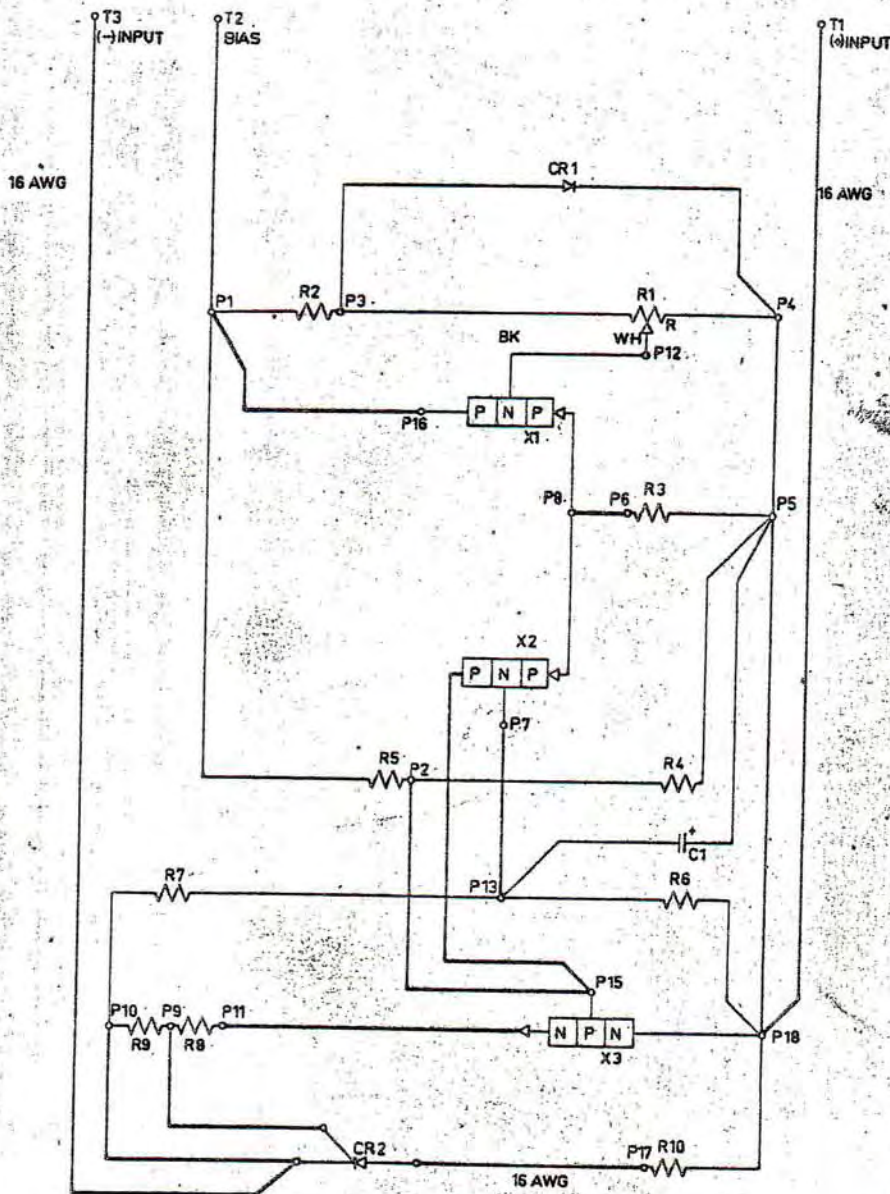
R19	210846	POT. SWITCH ASS.
C9	4116270	CAP. 50MFD 12V DC bi.
S1	4116830	SWITCH
L1	219628	LAMP 6.8V 0.15A

NOTES: I COMPONENT CARD ASSEMBLY NO. 371656
 II ORDER ONE EACH OF 210846 (POT. SWITCH ASS.) AND 4116830 (SWITCH) EXCEPT WHEN UNIT IS TO BE A PORTABLE.
 III CONNECT WITH TERMINALS 12,16 WHEN PRIMARY LINE VOLTAGE IS APPLIED, WITH TERMINALS 13,15 WHEN REGULATED VOLTAGE 130V IS APPLIED. SIMILAR TO 210864 E

IBM			
NAME	WIRING DIAGRAM- POWER SUPPLY		
	± 3V DC 5A (50 CV's)		
DESIGN		MODEL	6C58
DETAIL		SCALE	
CHECK		DRAWN	21. 2. 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-37600F
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 C35U
X1+X2	535441	TRANSISTOR 026
R1	208952	POT. 750 OHM 1WATT
R2	317015	RES. 750 OHM 0.5WATT
R3	322347	RES. 560 OHM 0.5WATT
R4	317027	RES. 11 K 0.5WATT
R5	213549	RES. 47K 0.5 WATT
R6+R7	208951	RES. 400 OHM 1WATT ±1%
R8	317002	RES. 22 OHM 0.5WATT
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:

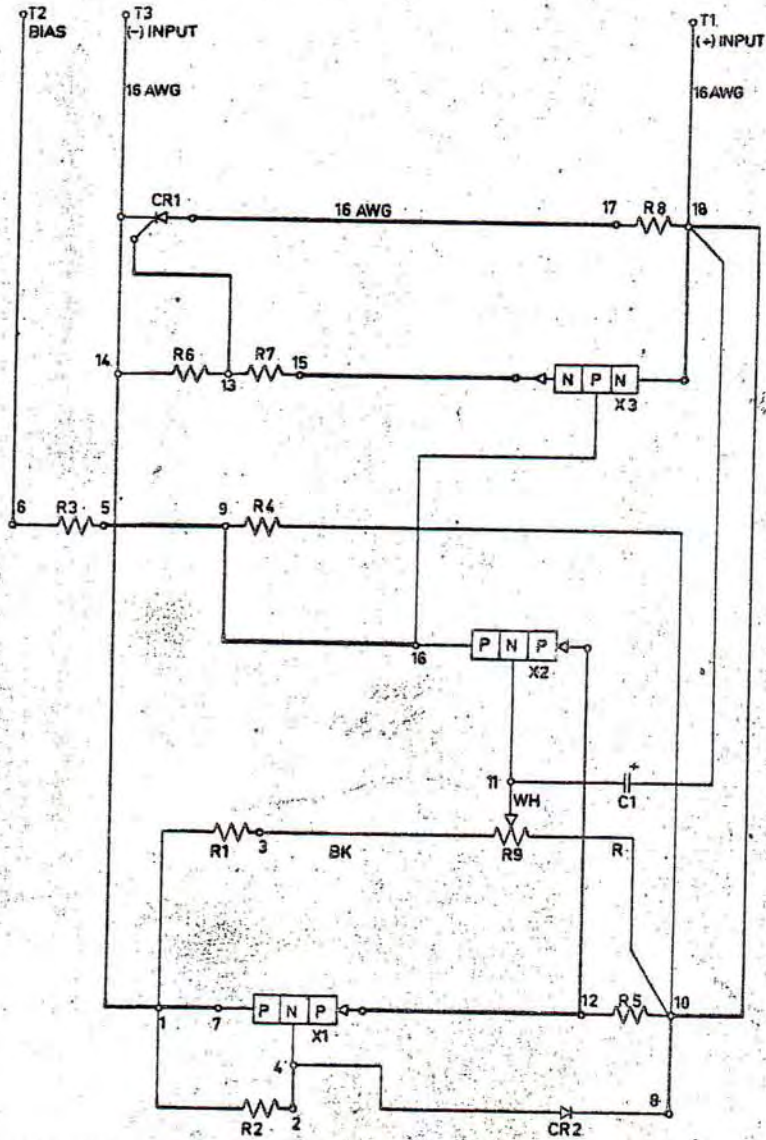
- I: ADJUST R1 TO FIRE CR2 AT 6.78 ± 0.02 VOLTS BETWEEN PINS 1 & 3 WITH BIAS OF $14 \pm 2\%$ VOLTS BETWEEN PINS 2 (-) & 3 (+)
- II: ALL WIRE 20 GA UNLESS OTHERWISE NOTED.

208948

IBM			
NAME	WIRING DIAGR. OVERVOLTAGE		
PROTECTION ± 6 V DC POWER SUPPLY			
DESIGN		MODEL	
DETAIL		SCALE	
CHECK		DRAW.	308.60
APPRO.		CHECK	1.9.60

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	208951	RES.400 OHM 1WATT ± 1%
R2	317014	RES.680 OHM 0.5WATT
R3	323920	RES. 3 K. 0.5WATT
R4	317025	RES. 6.8K. 0.5 WATT
R5	213693	RES. 1K. 0.5 WATT
R6	317007	RES. 220 OHM 0.5 WATT
R7	355683	RES. 51 OHM 1WATT
R8	207324	RES. 0.1 OHM 5WATT
R9	208952	POT. 750 OHM 1WATT
X1+X2	535441	TRANSISTOR Q26
X3	369087	TRANSISTOR 086
CR1	208955	CONTROLLED RECT. C35U
CR2	208950	DIODE ZENER IN 429
C1	124575	CAP. 0.22 MFD 35VDC



NOTES

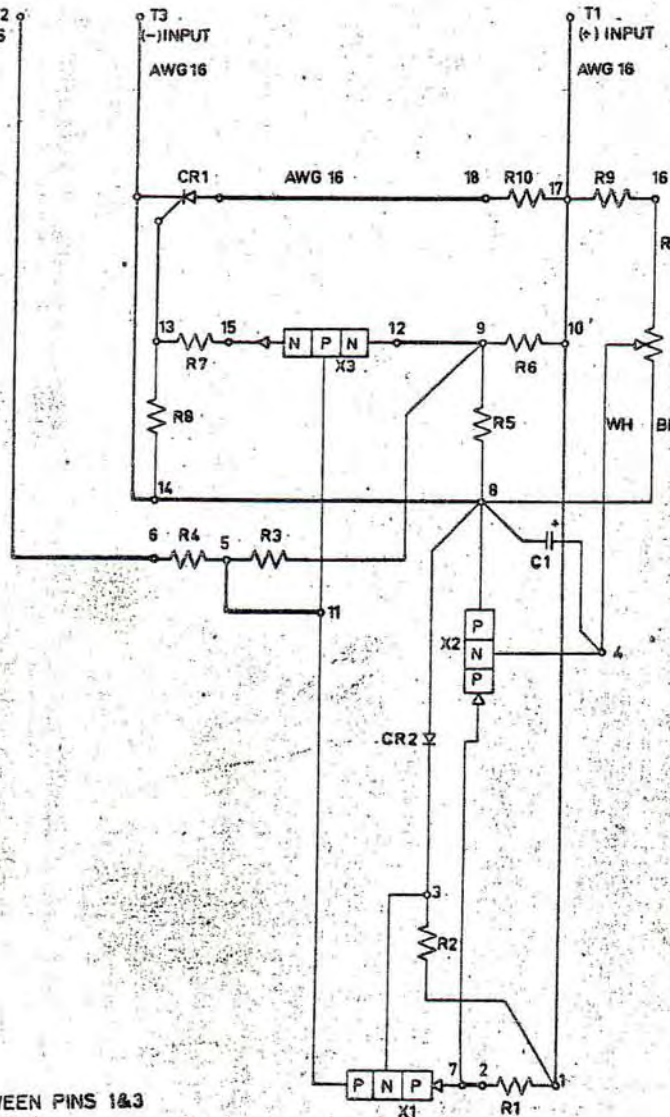
- X: ADJUST POTENTIOMETER TO FIRE C35U AT 12.96 ± 0.02 VOLTS INPUT PINS 1 & 3 WITH BIAS OF 12 ± 2% VOLTS BETWEEN PINS 2 (-) & 3 (+).
- XI: ALL WIRE 20 GA UNLESS OTHERWISE NOTED.

208961

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

DATE	CHANGE NO.
30. 12. 59	EC-105584 X
20. 9. 60	TA-37500 A
15. 12. 60	TA-37500 F
16. 2. 60	EC-105585 H
2. 8. 61	TA-37600 G

COMPONENT CHART		
CODE	PART NO.	DESCRIPTION
R1	213549	RES. 4.7 K. Q5 WATT
R2	317054	RES. 2.7 K. 1 WATT
R3	317025	RES. 6.8 K. Q5 WATT
R4	323920	RES. 3 K. Q5 WATT
R5	335138	RES. 200 OHM 2 WATT
R6	207328	RES. 400 OHM 5 WATT
R7	355683	RES. 51 OHM 1 WATT
R8	317007	RES. 220 OHM Q5 WATT
R9	208969	RES. 2.6 K. 5 WATT ±1%
R10	208970	RES. Q5 OHM 5 WATT
R11	208952	POT. 750 OHM 1 WATT
X1, X2	535441	TRANSISTOR 026
X3	369087	TRANSISTOR 086
CR1	208975	RECTIFIER C35F
CR2	208950	DIODE ZENER IN 429
C1	124575	CAP Q22MFD 35 VDC



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

208968

IBM			
NAME	WIRING DIAGR. OVERVOLTAGE		
PROTECTION	≈ 30 V DC POWER SUPPLY		
DESIGN		MODEL	
DETAIL		SCALE	
CHECK		DRAW.	308.60
APPROV.		CHECK.	L. S. 60

CHANGE NO.

And. Nr.

1847

DATE

Datum

16.5.63

WIR.

Blatt

1

1847

2

1

3

1

4

1

5

1

6

1

7

1

8

1

9

1

10

1

11

1

12

1

SHEET NO.

Blatt Nr.

MADE BY
Aufgestellt

WIRING DIAGRAM POWER SUPPLY C E OR MODEL F

Sil.

WITH TAPES

SUMMARY OF CHANGES

Änderungs-Übersicht

DATE
Datum

10.5.63

4 062 987G

SHEET
Blatt

0

FERRO RESONANT REGULATOR ADJUSTMENT



For correct operation of the Ferro Resonant Regulator, the input voltage must be within the range of 10% above and below the nominal supply voltage. The output voltage is regulated to within 1% of the nominal output voltage.

Measure the input voltage and compare it to your line voltage (refer to the Utility Diagram Section of the User Manual). Measure the output voltage and compare it to the output voltage to a value of 1% of the nominal output voltage. Examples: Input voltage 110V, Output voltage 120V; Input voltage 120V, Output voltage 120V; Input voltage 130V, Output voltage 120V.

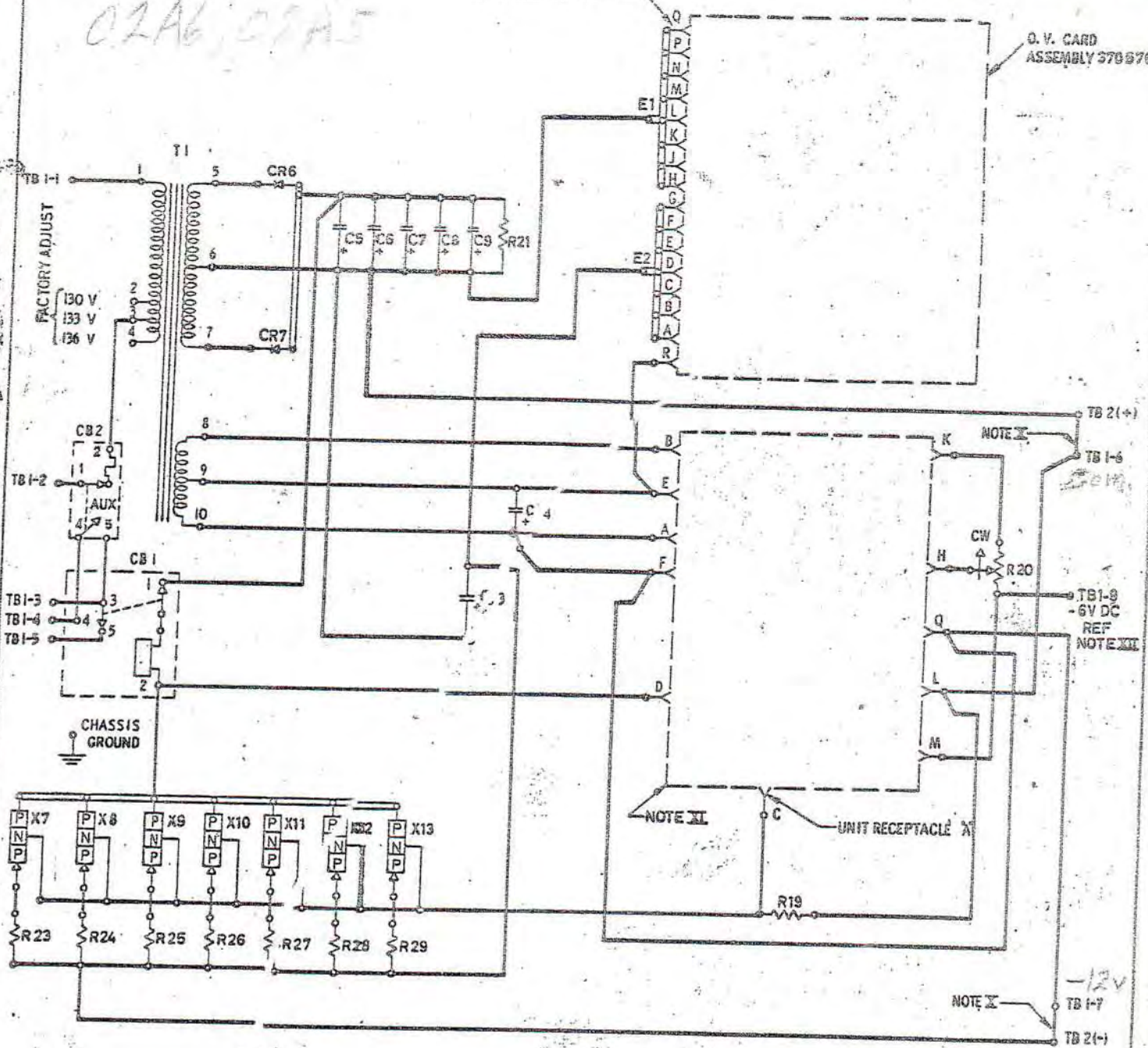
Examples: Input voltage 110V, Output voltage 120V; Input voltage 120V, Output voltage 120V; Input voltage 130V, Output voltage 120V.

* FOR 1401 MODEL D... * FOR 1401 MODEL D...

02A6, 02A5

UNIT RECEPTACLE

O. V. CARD ASSEMBLY 370676



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

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	YB1	TERMINAL BLOCK
CR6-7	DIODE	YB2	TERMINAL BLOCK
E1-2	BUS PLATE	X7-13	TRANSISTOR TYPE 108
A & B	RECEPTACLE		
R19	RESISTOR 20 0 OHM 2W		

SIMILAR TO 473 381 D

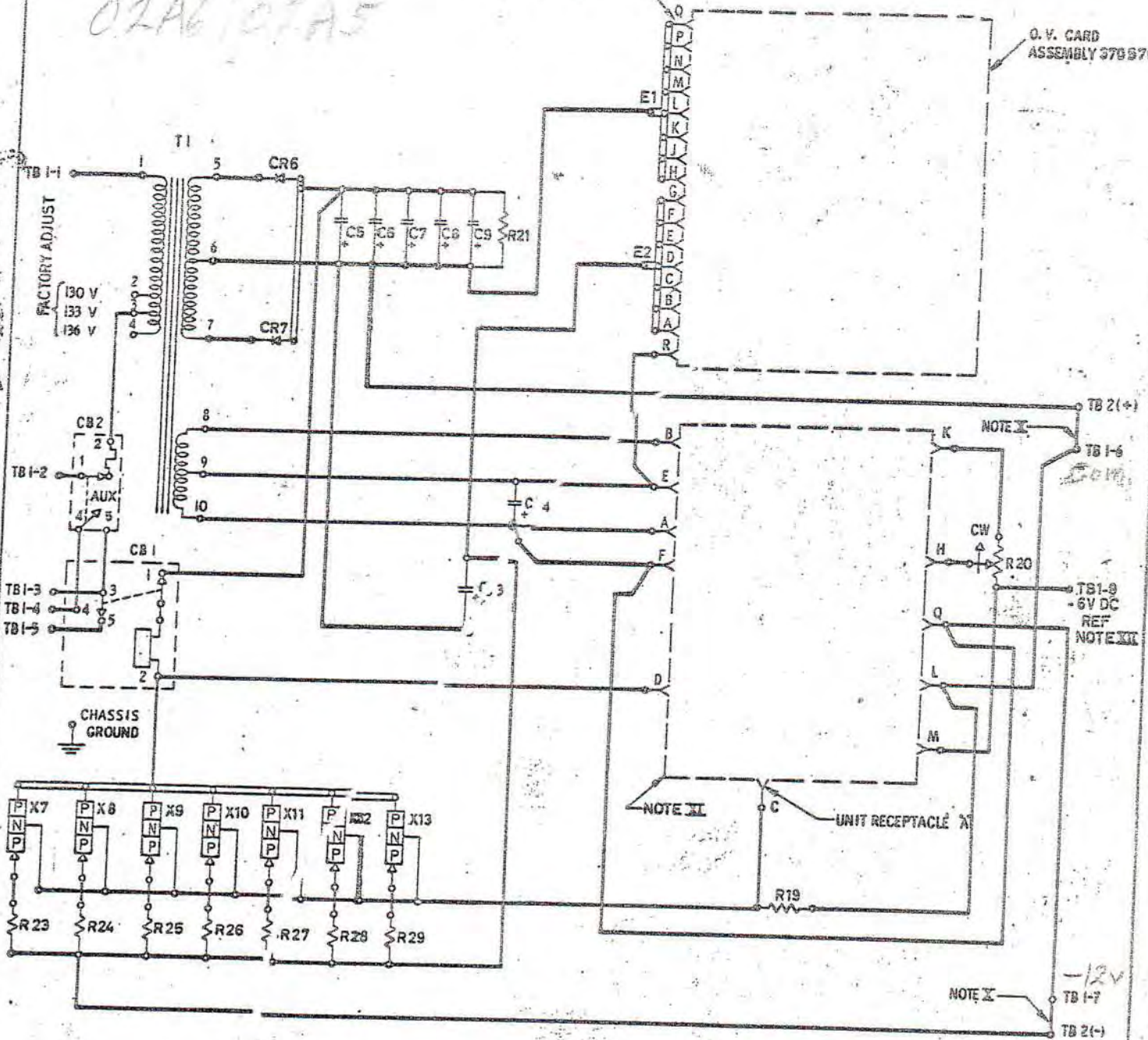
SY	MM	MICRO	CHANGES	DATE	SY	MICRO	CHANGES	DATE
				37932E 20.8.62				
				1653 29.11.62				
				1774 7.2.63				

IBM	
WIRING DIAGRAM - POWER SUPPLY	
12V DC AT 20A 50 CY/s	
DESIGN	MODEL 8068
DRAWN	DATE 19.7.62
CHECKED	APPROVED 2.2.62

02A6107A5

UNIT RECEPTACLE 'B'

O. V. CARD ASSEMBLY 370976



COMPONENT CHART

CODE	DESCRIPTION	CODE	DESCRIPTION
C3	CAP. 5 500 MF () 20V DC	R 20	POTENTIOMETER 250 OHM 0.5 W
C4	CAP. 700 MF () 25V DC	R 21	RESISTOR 75 OHM 10W
C5-9	CAP. 11 000 MF () 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 108
A & B	RECEPTACLE		
R19	RESISTOR 20 0 OHM 2W		

NOTES

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

SIMILAR TO 473 381 D

REV	MICRO FILM	SC.	CHANGE NO.	DATE	SYM	MICRO FILM	SC.	CHANGE NO.	TA.	1387E
				37982E 20.8.62						
				7653 29.11.62						
				7774 7.9.63						

IBM	
NAME WIRING DIAGRAM - POWER SUPPLY	
12V DC AT 20A 50 CY/s	
DESIGN	MODEL 8058
DRAWN	DATE 9.7.62
CHECK	DATE 3.2.62
APPR.	