

SYSTEM DIAGRAMS

0729 B

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SERIAL N° 06810

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85814	TG CONNECTOR RECEPTACLE	RA 10 20 0	5 344 820
85645	WRITE HEAD CABLE CHART	RA 10 30 0	5 344 821
85814 86363 A	CIRCUIT PROTECTOR CHART	RA 10 40 0	8 026 479
ECR 30028 85814 86507	COMPONENT LOCATION CHART	RA 10 50 0	8 026 480
85814 ECR 30028	COMPONENT LOCATION CHART	RA 10 60 0	8 026 481
85645	CIRCUIT CARD LOCATION CHART	RA 10 70 0	8 026 482
85814	EDGE CONNECTOR - TERMINAL BOARD	RA 10 80 0	8 026 483
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85814	DENSITY HS AREA	RA 30 10 1	8 026 477
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85814	WRITE PULSE DELAY LINE	RA 30 50 1	5 344 806
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85814 ECR 30023	RELAYS LOGIC	RA 40 15 1	8 026 484
85645	RELAYS LOGIC	RA 40 25 1	8 026 485
85814	RELAYS LOGIC	RA 40 35 1	5 344 813
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85224	POWER SUPPLY	RA 95 00 0	8 023 830
85224	12 VDC REGULATOR	RA 95 10 0	5 344 884
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SYSTEM DIAGRAMS

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SERIAL N° 06810

DESCRIPTION	INDEX	PART N°	B II	B IV	B V	B VI
SMS CARD		348 542	x	x		
PREAMPLIFIER LH	ACX	370 099	x			
PREAMPLIFIER L3	ACW	370 100	x			
TWO WAY INVERTER	TAU	370 129	x	x	x	x
DISTRIBUTED LINE TERMINATOR	TCJ	370 333	x	x	x	x
AC PHOTO AMPLIFIER	YAW	370 452	x	x	x	x
CONVERTER P LINE TO S LINE	APF	370 640	x	x	x	x
CONVERTER S LINE TO N LINE	APG	370 641	x	x	x	x
CONVERTER S LINE TO P LINE	APH	370 642	x	x	x	x
WRITE CURRENT BALANCE	YEU	370 668			x	x
PREAMPLIFIER N°1	ALZ	370 680				x
PREAMPLIFIER N°2	APZ	370 681				x
RESISTOR + SUPPRESSOR	YHM	370 701	x	x	x	x
PREAMPLI N°1	ARK	370 706			x	
PREAMPLIFIER L2	ARL	370 707			x	
INVERTER N TYPE	CD	371 029	x	x	x	x
EMITTER FOLLOWER PNP	CEYB	371 032	x	x	x	x
CONTROL TRIGGER	AR	371 034	x	x	x	x
GATED SAMPLE PULSE DRIVER	AYWS	371 041	x	x	x	x
DRIVER 2 PROLAY	BKWZ	371 432	x	x	x	x
DRIVER 2 PROLAY	BKVZ	371 433	x	x	x	x
DELAY LINE DISTRIB	BP	371 439		x		x
INVERTER - POWER PNP	MH	371 487	x	x	x	x
DRIVE FUNCTIONAL COIL	MD	371 497	x	x	x	x
INVERTER - N TWO WAY	MX	371 661	x	x	x	x
CTRL INTEGR. DIODE INPUT NEG.	NM	371 666	x	x	x	x
HEAD DRIVER + ECHO PULSE AMP.	LZ	371 674	x	x	x	x
ALLOY DELAY LINE	RP	371 749	x		x	
DRIVER RELAY 2, 5 AMP.	WB	371 880	x	x	x	x
PREAMPLIFIER ALLOY N°1	AFA	371 925		x		
PREAMPLIFIER N°2	ABK	371 926		x		
THREE WAY INVERTER	DAC	371 951	x	x	x	x
CONVERTER N LINE TO S LINE	AUC	372 160	x	x	x	x
CONVERTER S LINE TO N LINE	AUD	372 161	x	x	x	x
WRITE CURRENT BALANCE N° 2	AUS	372 266			x	x
CAPACITOR CARD		556 981	x	x	x	x
INTEGRATOR CARD		8 023 359	x	x	x	x
METER CARD		372688	x	x	x	x

CIRCUIT CARD LOCATION CHART

TU.04.11.0

8023314
Machine No. 729-2

20.7.63 JJ 81881-
A B C

JT 81881-
D E F G H I K
RUN 7101
900034

FRAME 00 GATE A PANEL 3
SHEET 1 OF 2

	A	B	C	D	E	F	G	H	I	J	K	
01												
02												
03			MX-- 0371661 TU.09.10.1 1A TU.09.10.1 3A TU.09.10.1 3C TU.09.10.1 5D	CD-- 0371029 TU.09.25.1 4A TU.09.25.1 5A TU.09.55.1 5E	BKVZ 0371433 TU.08.10.1 2B			NM-- 0371666 TU.11.00.1 1B TU.11.00.1 2A TU.11.00.1 2B			556981 TU.95.00.2	CAPACITOR CARD
04	WB-- 0371880 TU.09.50.2 1A		MX-- 0371661 TU.09.10.1 1B TU.09.10.1 2C TU.09.15.1 2E TU.09.15.1 3F	MX-- 0371661 TU.08.00.1 2F TU.09.25.1 4B TU.09.45.1 2C TU.09.55.1 2C			NM-- 0371666 TU.11.00.1 1D TU.11.00.1 1E TU.11.00.1 2D TU.11.00.1 2E					
05			CD-- 0371029 TU.09.10.1 3B TU.09.10.1 5A TU.09.10.1 5B TU.09.15.1 2B	CD-- 0371029 TU.09.25.1 1C TU.09.25.1 5E TU.09.25.1 5F TU.09.25.1 5G	YAW-- 0370452 TU.09.55.1 4B							
06	WB-- 0371880 TU.09.50.2 1B		CEYB 0371032 TU.09.10.1 2A TU.09.15.1 3D TU.09.15.1 4B TU.09.25.1 3F 2	MX-- 0371661 TU.09.60.1 1C TU.09.25.1 3C TU.09.25.1 4F TU.09.25.1 4G 5	YAW-- 0370452 TU.09.55.1 5D					TG 8023359 TU.11.00.1 1A		
07			MX-- 0371661 TU.09.10.1 1G TU.09.10.1 1H TU.09.10.1 2F TU.09.10.1 2G TU.09.30.1 4H									
08	WB-- 0371880 TU.09.50.2 2C		MX-- 0371661 TU.09.10.1 3F TU.09.10.1 4F TU.09.10.1 4G TU.09.35.1 2H	CEYB 0371032 TU.09.25.1 3A TU.09.25.1 3B TU.09.30.1 2G TU.09.30.1 3A 2	DAC- 0371951 TU.09.55.1 3E TU.09.55.1 3F TU.09.55.1 4D							
09			DAX- 0370084 TU.09.15.1 3A TU.09.15.1 1B TU.09.15.1 1D TU.09.55.1 1C 5	MH- 0371487 TU.09.25.1 1C TU.09.30.1 2F TU.09.40.1 5F TU.09.40.1 5G	MX- 0371661 TU.08.00.1 4H TU.09.55.1 3H TU.09.55.1 3I TU.09.55.1 4F							
10	WB-- 0371880 TU.09.50.2 1C		MX-- 0371661 TU.09.15.1 TU.09.15.1 TU.09.15.1 TU.09.55.1	MX-- 0371661 TU.09.30.1 1C TU.09.30.1 2C TU.09.30.1 4F TU.09.30.1 4G 5								
11			MH-- 0371487 TU.09.15.1 1C TU.09.15.1 2A TU.09.15.1 2G TU.09.15.1 3E	MX-- 0371661 TU.09.30.1 3E TU.09.30.1 4E TU.09.35.1 5G TU.09.35.1 5H								
12	WB-- 0371880 TU.09.50.2 2D	MD 0371497 TU.09.45.1 1D	MX-- 0371661 TU.09.10.1 5F TU.09.15.1 4A TU.09.15.1 4F TU.09.15.1 5A	MX-- 0371661 TU.09.35.1 2E TU.09.35.1 3G TU.09.35.1 4G TU.09.35.1 4H 5			MX-- 0371661 TU.08.00.1 1B TU.08.00.1 4G TU.08.00.1 1D TU.09.30.1 5C	APH- 0370642 TU.08.10.1 5A TU.08.10.1 5B TU.08.10.1 8C TU.08.10.1 5D				
13			CD-- 0371029 TU.09.15.1 3G TU.09.15.1 4D TU.09.15.1 5B	MX-- 0371661 TU.09.35.1 1F TU.09.35.1 2F TU.09.35.1 3A TU.09.50.2 4H 5			TAU- 0371629 TU.08.00.1 2H TU.08.00.1 4F TU.09.55.1 4E TU.09.55.1 2E	APH- 0370642 TU.08.10.1 3B TU.08.10.1 5E TU.08.10.1 5F TU.08.10.1 2C				
14	WB-- 0371880 TU.09.50.2 1D	WB-- 0371880 TU.09.55.1 5I	MX-- 0371661 TU.09.15.1 4C TU.09.15.1 4E TU.09.15.1 4H TU.09.15.1 5E				MX-- 0371661 TU.08.00.1 2A TU.08.00.1 4A TU.08.00.1 4B TU.09.55.1 1E 5	APG- 0370641 TU.08.10.1 2A TU.08.10.1 4G TU.08.10.1 4H TU.08.10.1 4I				

	A	B	C	D	E	F	G	H	J	K	
15			MX-- 0371661 TU.09.20.1 1E TU.09.20.1 3D TU.09.20.1 5A TU.09.20.1 5B	MX-- 0371661 TU.09.35.1 2B TU.09.35.1 4C TU.09.35.1 5D TU.09.35.1 5F				MX-- 0371661 TU.08.00.1 2B TU.08.00.1 2C TU.08.00.1 4C TU.09.55.1 1D	APE-- 0370639 TU.08.00.1 3A TU.08.00.1 3B TU.08.00.1 5A TU.08.00.1 5B		
16	WB-- 0371880 TU.09.50.2 2E	MD-- 0371497 TU.07.10.1 2B TU.09.55.1 1F TU.09.60.1 1B	MX-- 0371661 TU.09.20.1 2B TU.09.20.1 3B TU.09.20.1 3C TU.09.20.1 4D	MX-- 0371661 TU.09.35.1 5E TU.09.55.1 5C TU.09.40.1 3D TU.09.40.1 4D				MX-- 0371661 TU.08.00.1 2D TU.08.00.1 4D TU.08.00.1 4E TU.09.15.1 1E	APE-- 0370639 TU.08.00.1 3C TU.08.00.1 3D TU.08.00.1 5C TU.08.00.1 5D		
17			MX-- 0371661 TU.09.20.1 3F TU.09.20.1 4E TU.09.20.1 5C TU.09.20.1 5G	CD-- 0371029 TU.09.40.1 2A TU.09.40.1 2B TU.09.40.1 3E				MX-- 0371661 TU.08.00.1 2E TU.08.00.1 2G TU.09.55.1 3C TU.08.10.1 4B	APE-- 0370639 TU.08.00.1 3E TU.08.00.1 3F TU.08.00.1 5E TU.08.00.1 5F		
18	WB-- 0371880 TU.09.50.2 2F	MD-- 0371497 TU.09.15.1 1A TU.09.15.1 2D TU.09.60.1 1F	CD-- 0371029 TU.09.20.1 4F TU.09.20.1 5E TU.09.20.1 5F	MX-- 0371661 TU.09.45.1 3D TU.09.45.1 2D TU.09.45.1 4C TU.09.35.1 3F		CD-- 0371029 TU.09.65.1 TU.09.65.1 TU.09.65.1			APE-- 0370639 TU.08.00.1 1G TU.08.00.1 1H TU.09.65.1		
19			CEYB 0371032 TU.08.10.1 TU.09.20.1 TU.09.20.1 TU.09.20.1 TU.09.35.1	CD-- 0371029 TU.09.35.1 3B TU.09.35.1 5C TU.09.50.1 4C					APF-- 0370640 TU.08.00.1 1A TU.08.00.1 5G		
20	WB-- 0371880 TU.09.50.2 2G	MD-- 0371497 TU.09.45.1 2E TU.07.10.1 4A TU.09.55.1 5H	MX-- 0371661 TU.09.45.1 2B TU.09.45.1 4B TU.09.45.1 5B TU.09.45.1 5E	CD-- 0371029 TU.09.45.1 3B TU.09.45.1 5I TU.09.45.1 5I	CD-- 0371029 TU.09.45.1 5G TU.09.55.1 3B TU.09.55.1 4A			HW-- 0371048 TU.07.10.4 4A TU.07.10.4 3B TU.07.10.4 4C TU.07.10.4 4D	APF-- 0370640 TU.08.00.1 1C TU.08.00.1 3H		
21			MX-- 0371661 TU.09.45.1 3E TU.09.45.1 3H TU.09.45.1 4I TU.09.45.1 5H	MX-- 0371661 TU.09.15.1 5C TU.09.45.1 4G TU.09.45.1 5D TU.13.00.1 1A	MX-- 0371661 TU.07.10.1 TU.09.55.1 TU.09.55.1 TU.09.55.1 TU.09.45.1			HW-- 0371048 TU.07.10.4 4E TU.07.10.4 4F TU.07.10.4 4G TU.07.10.4 4H	APF-- 0370640 TU.08.00.1 1E TU.08.00.1 5H		
22	WB-- 0371880 TU.09.50.2 1G	MD-- 0371497 TU.09.45.1 1B TU.09.45.1 2H TU.09.45.1 2I	CD-- 0371029 TU.09.50.1 3A TU.09.50.1 3H TU.09.50.1 5E	MX-- 0371661 TU.09.50.1 2F TU.09.50.1 3E TU.09.50.1 4A TU.09.50.1 4D		AK-- 0371241 TU.07.10.1 1B	AYWS 0371041 TU.07.10.2 5G	AR-- 0371034 TU.07.10.2 4G	LZ-- 0371674 TU.07.10.2 3G		
23			MX-- 0371661 TU.09.50.1 4E TU.09.50.1 5D TU.09.50.1 5F TU.09.50.1 5G	CEYB 0371032 TU.09.20.1 TU.09.20.1 TU.09.50.1 TU.08.10.1		APG-- 0370641 TU.07.10.1 1A	AYWS 0371041 TU.07.10.2 5F	AR-- 0371034 TU.07.10.2 4F	LZ-- 0371674 TU.07.10.2 3F		
24	WB-- 0371880 TU.09.50.2 2H	MD-- 0371497 TU.09.15.1 1G TU.09.35.1 1B TU.09.45.1 2A	MX-- 0371661 TU.09.50.2 3D TU.09.50.2 3E TU.09.50.2 4E TU.09.50.2 4I	MH-- 0371487 TU.09.40.1 1B TU.09.40.1 2E TU.09.50.1 1A TU.09.50.1 1E		MH-- 0371487 TU.07.10.1 2A TU.07.10.1 3A TU.07.10.1 3B TU.07.10.1 4C	AYWS 0371041 TU.07.10.2 5E	AR-- 0371034 TU.07.10.2 4E	LZ-- 0371674 TU.07.10.2 3E	0348542 TU.07.10.2 2A TU.07.10.2 2B TU.07.10.2 2C TU.07.10.2 2D	
25			MX-- 0371661 TU.09.60.1 3B TU.09.60.1 3C TU.09.60.1 4B TU.09.60.1 5H	MX-- 0371661 TU.09.50.2 4C TU.09.50.2 5E TU.09.60.1 2C		APE-- 0370639 TU.08.10.1 2I TU.07.10.1 4H TU.07.10.1 4I	AYWS 0371041 TU.07.10.2 5D	AR-- 0371034 TU.07.10.2 4D	LZ-- 0371674 TU.07.10.2 3D		
26	WB-- 0371880 TU.09.50.2 2I	MD-- 0371497 TU.09.30.1 1F TU.09.35.1 1G TU.09.40.1 1C	MX-- 0371661 TU.09.60.1 2B TU.09.60.1 2F TU.09.60.1 3F TU.09.60.1 5A	MX-- 0371661 TU.09.60.1 3G TU.09.60.1 4G TU.09.60.1 5D TU.09.60.1 5E		APE-- 0370639 TU.07.10.1 2G TU.07.10.1 2H TU.07.10.1 4F TU.07.10.1 4G	AYWS 0371041 TU.07.10.2 5C	AR-- 0371034 TU.07.10.2 4C	LZ-- 0371674 TU.07.10.2 3C	0348542 TU.07.10.2 2E TU.07.10.2 2F TU.07.10.2 2G	
27			MX-- 0371661 TU.13.00.1 2A TU.13.00.1 3B TU.13.00.1 5C TU.13.00.1 5D	CD-- 0371029 TU.13.00.1 3C TU.1300.1 4C TU.13.00.1 4D		RP-- 0371749 TU.07.10.1 5D	AYWS 0371041 TU.07.10.2 5B	AR-- 0371034 TU.07.10.2 4B	LZ-- 0371674 TU.07.10.2 3B		
28	YHM-- 0370701 TU.09.20.1 TU.09.25.1 TU.09.50.2 TU.09.55.1	MD-- 0371497 TU.09.20.1 2F TU.09.25.1 2F TU.09.40.1 1E	QG-- NOTE 0371679 TU.13.00.1 5B	QH-- NOTE 0371680 TU.13.00.1 2E		RP-- 0371749 TU.07.10.1 5E	AYWS 0371041 TU.07.10.2 5A	AR-- 0371034 TU.07.10.2 4A	LZ-- 0371674 TU.07.10.2 3A		

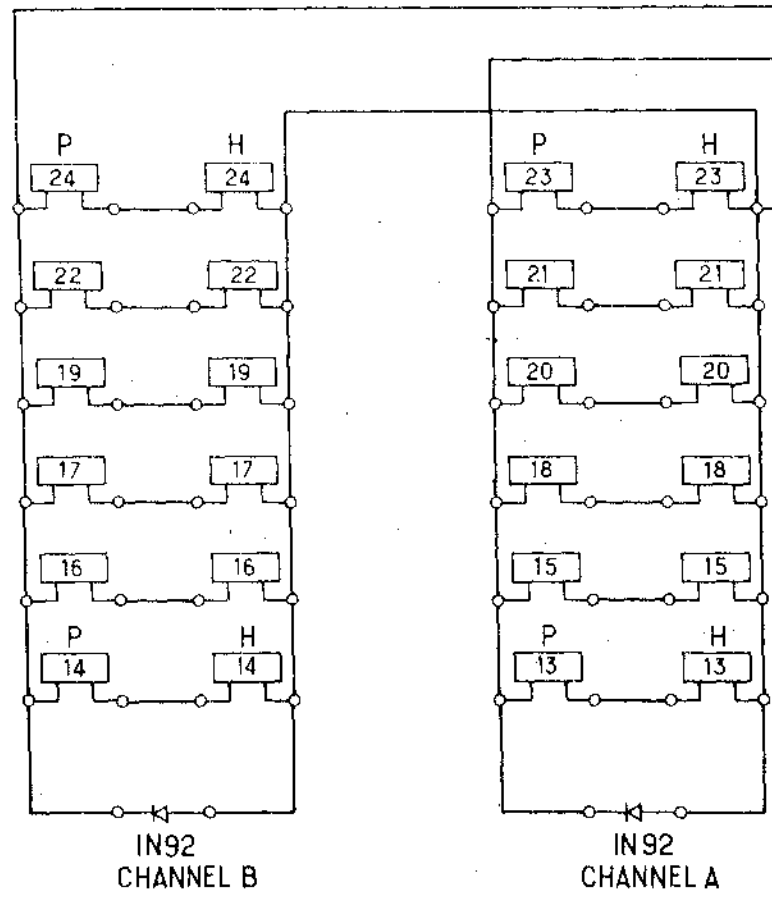
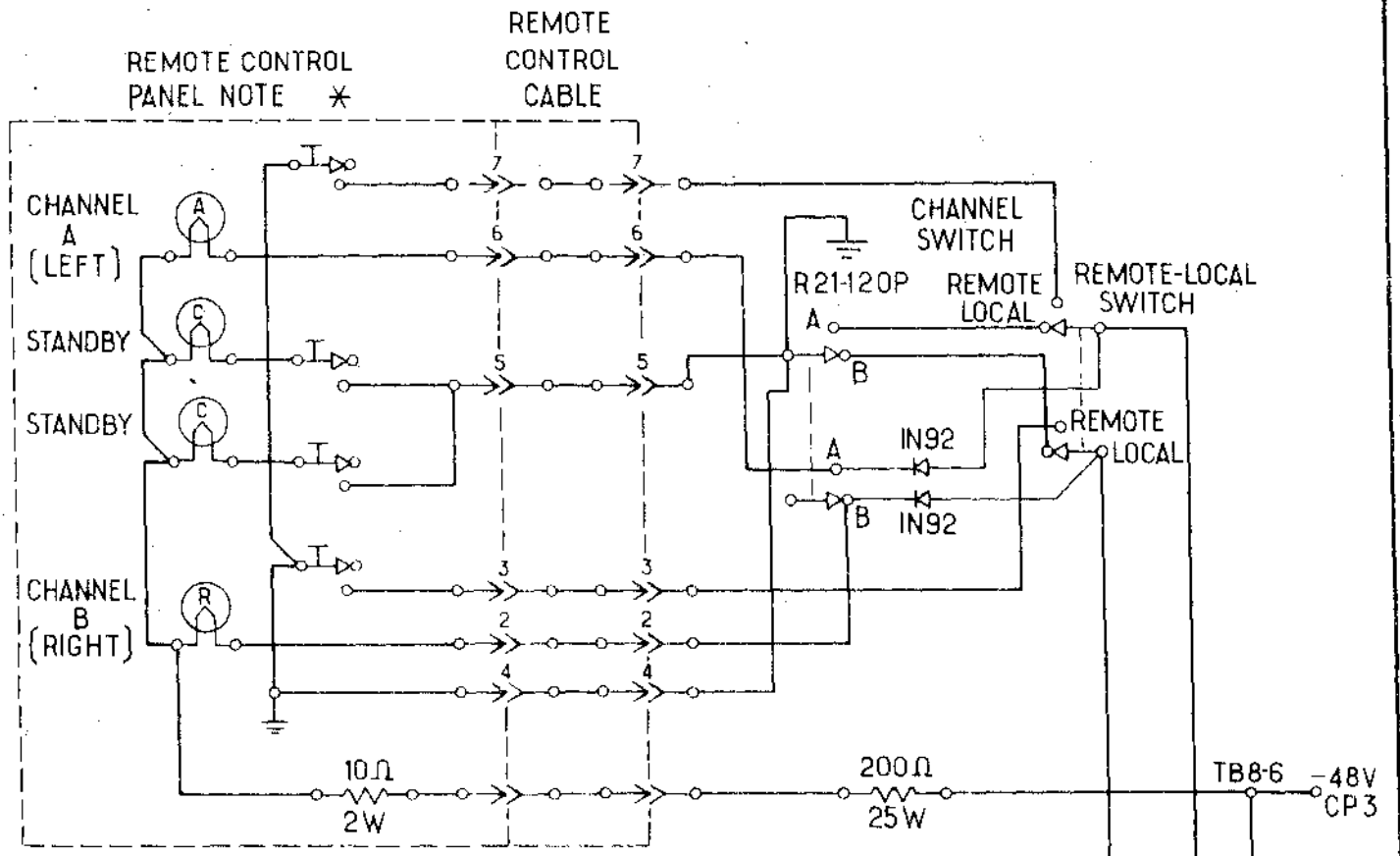
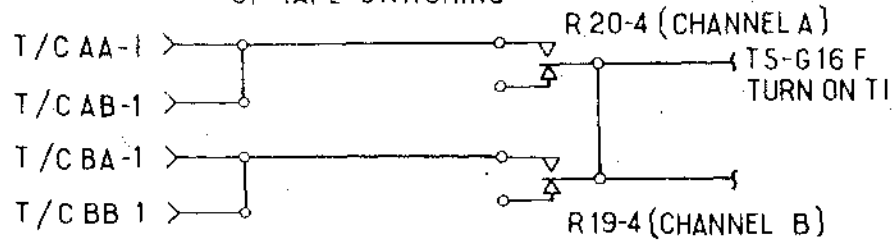
T/C/ SIGNAL	LINE NAME		PAGE	LOCATION	BLOCK	T/C/ SHIELD
1	-N TURN ON TI	FROM TAU	RA.30.20.1	G14C	5F	2
7	-N BKWD	FROM TAU	RA.30.80.1	G17R	5A	8
9	-N START RWD	FROM TAU	RA.30.30.1	G17D	4B	10
11	-N SET WR STAT	FROM TAU	RA.30.40.1	G17C	5E	12
43	-N SET LO DENS	FROM TAU	RA.30.10.1	G14R	5A	44
194	-N WR CK CHAR	FROM TAU	RA.30.50.1	F05D	5A	195
196	-N WR PULSE	FROM TAU	RA.30.50.1	F04R	5B	197
3	+P TURN OFF TI	FROM TAU	RA.30.20.1	F17A	5H	4
5	+P GO	FROM TAU	RA.30.80.1	F17 C	5I	6
13	+P SET RD STAT	FROM TAU	RA.30.40.1	F15C	5C	14
39	+P RWD + UNLD	FROM TAU	RA.30.30.1	F16C	5A	40
41	+P SET HI DENS	FROM TAU	RA.30.10.1	F15A	5B	42
23	-N SEL + TI ON	TO TAU	RA.30.20.1	G11G	1C	22
25	-N SEL + TI OFF	TO TAU	RA.30.20.1	G11E	1H	24
37	-N SEL + RWD	TO TAU	RA.30.40.1	G11F	1C	38
192	-N WR ECHO	TO TAU	RA.30.60.1	G11D	1I	193
21	+P SEL + RDY M4	TO TAU	RA.30.30.1	G12E	1C	20
27	+P SEL + LP	TO TAU	RA.30.20.1	G08G	1C	26
29	+P SEL + NOT LP	TO TAU	RA.30.20.1	G08E	1D	28
31	+P SEL + RDY M2	TO TAU	RA.30.30.1	G12E	1C	32
33	+P SEL RDY + RD	TO TAU	RA.30.40.1	G08D	1F	34
35	+P SEL RDY + WR	TO TAU	RA.30.40.1	G08F	1E	36
47	+P HI DENS	TO TAU	RA.30.10.1	G12G	2C	46
115	+P SEL RDY M5 M6	TO TAU	RA.30.30.1	G12D	3C	114
77	+P SEL TU 0	FROM TAU	RA.30.00.1	SEL SW A0		76
79	+PSEL TU 1	FROM TAU	RA.30.00.1	SEL SW A1		78
86	+P SEL TU 2	FROM TAU	RA.30.00.1	SEL SW A2		87
88	+P SEL TU 3	FROM TAU	RA.30.00.1	SEL SW A3		89
97	+P SEL TU 4	FROM TAU	RA.30.00.1	SEL SW A4		96
99	+P SEL TU 5	FROM TAU	RA.30.00.1	SEL SW A5		98
101	+P SEL TU 6	FROM TAU	RA.30.00.1	SEL SW A6		107
108	+PSEL TU 7	FROM TAU	RA.30.00.1	SEL SW A7		109
117	+P SEL TU 8	FROM TAU	RA.30.00.1	SEL SW A8		116
119	+P SEL TU 9	FROM TAU	RA.30.00.1	SEL SW A9		118
82	RD BUS 1	TO TAU	RA.30.70.1	F20H	1A	83
84	RD BUS 2	TO TAU	RA.30.70.1	F21H	1B	85
93	RD BUS 4	TO TAU	RA.30.70.1	F22H	1C	92
95	RD BUS 8	TO TAU	RA.30.70.1	F23H	1D	94
102	RD BUS A	TO TAU	RA.30.70.1	F24H	1E	103
104	RD BUS B	TO TAU	RA.30.70.1	F25H	1F	105
113	RD BUS C	TO TAU	RA.30.70.1	F26H	1G	112
122	RD BUS X					123
124	RD BUS Y					125
172	-N WR BUS 1	FROM TAU	RA.30.30.1	F03C	3E	171
174	-N WR BUS 2	FROM TAU	RA.30.30.1	F03G	2F	173
176	-N WR BUS 4	FROM TAU	RA.30.30.1	F03R	4F	175
178	-N WR BUS 6	FROM TAU	RA.30.30.1	F04C	3G	177
180	-N WR BUS A	FROM TAU	RA.30.30.1	F04G	2H	179
182	-N WR BUS B	FROM TAU	RA.30.30.1	F03D	4H	181
184	-N WR BUS C	FROM TAU	RA.30.30.1	F04D	3I	183
188	WR BUS X					189
190	WR BUS Y					191

TAPE SWITCHING

T/C/ SIGNAL	LINE NAME	CHANNEL A	CHANNEL B	T/C/ SHIELD	CHANNEL A	CHANNEL B
1	-N TURN ON TI	R 20.04	R 19.04	2	R-----	R-----
7	-N BKWD	R 20.02	R 19.02	8	R 20.01	R 19.01
9	-N START RWD	R 20.07	R 19.07	10	R 20.06	R 19.06
11	-N SET WR STAT	R 20.03	R 19.03	12	R-----	R-----
43	-N SET LO DENS	R 20.05	R 19.05	44	R-----	R-----
49	-N PROCESS-M-	R 21.2	R 22.12	48	R 21.1	R 22.11
194	-N WR CK CHAR	R 20.08	R 19.08	195	R-----	R-----
196	-N WR PULSE	R 23.10	R 24.10	197	R-----	R-----
3	&P TURN OF TI	R 18.08	R 17.08	4	R 18.07	R 17.07
5	&P GO	R 18.10	R 17.10	6	R 18.09	R 17.09
13	&P SET RD STAT	R 20.10	R 19.10	14	R 20.09	R 19.09
39	&P RWD & UNLD	R 18.11	R 17.11	40	R-----	R-----
41	&P SET HI DENS	R 18.12	R 17.12	42	R-----	R-----
23	-N SEL & TI ON	R 18.02	R 17.02	22	R 18.01	R 17.01
25	-N SEL & TI OFF	R 18.04	R 17.04	24	R 18.03	R 17.03
37	-N SEL & RWD	R 18.06	R 17.06	38	R 18.05	R 17.05
192	-N WR ECHO	R 23.12	R 24.12	193	R 23.11	R 24.11
21	&P SEL & RDY M4	R 15.12	R 16.12	20	R 15.11	R 16.11
27	&P SEL & LP	R 15.06	R 16.06	26	R 15.05	R 16.05
29	&P SEL & NOT LP	R 15.08	R 16.08	28	R 15.07	R 16.07
31	&P SEL & RDY M2	R 15.12	R 16.12	32	R 15.11	R 16.11
33	&P SEL RDY & RD	R 15.04	R 16.04	34	R 15.03	R 16.03
35	&P SEL RDY & WR	R 15.02	R 16.02	36	R 15.01	R 16.01
47	&P HI DENS	R 15.10	R 16.10	46	R 15.09	R 16.09
115	&P SEL RDY M5 M6	R 20.12	R 19.12	114	R 20.11	R 19.11
77	&P SEL TU 0	R 21.03	R 22.03	76	R-----	R-----
79	&P SEL TU 1	R 21.04	R 22.04	78	R-----	R-----
86	&P SEL TU 2	R 21.05	R 22.05	87	R-----	R-----
88	&P SEL TU 3	R 21.06	R 22.06	89	R-----	R-----
97	&P SEL TU 4	R 21.07	R 22.07	96	R-----	R-----
99	&P SEL TU 5	R 21.08	R 22.08	98	R-----	R-----
106	&P SEL TU 6	R 21.09	R 22.09	107	R-----	R-----
108	&P SEL TU 7	R 21.10	R 22.10	109	R-----	R-----
117	&P SEL TU 8	R 13.01	R 14.01	116	R-----	R-----
119	&P SEL TU 9	R 13.02	R 14.02	118	R-----	R-----
82	RD BUS 1	R 13.09	R 14.09	83	R 13.10	R 14.10
84	RD BUS 2	R 13.08	R 14.08	85	R-----	R-----
93	RD BUS 4	R 13.07	R 14.07	92	R-----	R-----
95	RD BUS 8	R 13.06	R 14.06	94	R-----	R-----
102	RD BUS A	R 13.05	R 14.05	103	R-----	R-----
104	RD BUS B	R 13.04	R 14.04	105	R-----	R-----
113	RD BUS C	R 13.03	R 14.03	112	R-----	R-----
122	RD BUS X	R-----	R-----	123	R-----	R-----
124	RD BUS Y	R-----	R-----	125	R-----	R-----
172	-N WR BUS 1	R 23.02	R 24.02	171	R 23.01	R 24.01
174	-N WR BUS 2	R 23.03	R 24.03	173	R-----	R-----
176	-N WR BUS 4	R 23.04	R 24.04	175	R-----	R-----
178	-N WR BUS 8	R 23.05	R 24.05	177	R-----	R-----
180	-N WR BUS A	R 23.07	R 24.07	179	R 23.06	R 24.06
182	-N WR BUS B	R 23.08	R 24.08	181	R-----	R-----
184	-N WR BUS C	R 23.09	R 24.09	183	R-----	R-----
188	WR BUS X	R-----	R-----	189	R-----	R-----
190	WR BUS Y	R-----	R-----	191	R-----	R-----

TAPE SWITCHING CONTROL

TYPICAL LOGICAL LAYOUT OF TAPE SWITCHING



NOTE

* REMOTE CONTROL PANEL SWITCHES ARE INTERLOCKED. NO TWO POSITIONS CAN BE SET AT ONE TIME

IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			21-10-63	EC 253 501					
	RA 10.12.1			16.3.64	1785205					
PROJET		TYPE	729							
DESSIN		ECHEL.								
VERIF.	AN 28.2.64	CALQ.								
APPR.		VERIF.								

5344820

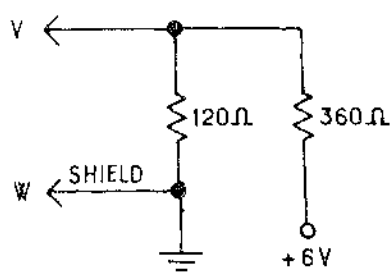
RA.10.20.0

T/C CONNECTOR RECEPTACLE
A PINSIDE
B WIRE SIDE

15	SHIELD	SET READ STATUS	SHIELD	SET WRITE STATUS	SHIELD	START REWIND	8 SHIELD	BKWD	SHIELD	60	SHIELD	TURN OFF T.I.	SHIELD	1 TURN ON T.I.
30	SEL & NOT AT LD. PT	SHIELD	SEL & AT LD. PT	SHIELD	SEL & T.I. OFF	SHIELD	23 SEL & T.I. ON	SHIELD	SEL & RPY MOD IY	SHIELD	SPEC SPARE ENG	SPEC SHIELD ENG	SPEC SPARE ENG	16 SPEC SHIELD ENG
45	SHIELD	SET LO. DENSITY	SHIELD	SET HI. DENSITY	SHIELD	REWIND & UNLOAD	38 SHIELD	SEL & REWIND	SHIELD	SEL RPY & WRITE	SHIELD	SEL ROY & READ	SHIELD	31 SEL & ROY MOD II
60							53				PROCESS (M)	SHIELD	HI. DENSITY DENSITY	46 SHIELD
75							68							61
85 SHIELD	READ BUS 2	SHIELD	READ BUS 1	81						80	SEL T.U. 1	SHIELD	SEL T.U. 0	76 SHIELD
95 READ BUS 8	SHIELD	READ BUS 4	SHIELD	91						90	SHIELD	SEL T.U. 3	SHIELD	86 SEL T.U. 2
105 SHIELD	READ BUS B	SHIELD	READ BUS A	101						100	SEL T.U. 5	SHIELD	SEL T.U. 4	96 SHIELD
115 MOD V/VI	SHIELD	READ BUS C	SHIELD	111						110	SHIELD	SEL T.U. 7	SHIELD	106 SEL T.U. 6
125 SHIELD	SPARE	SHIELD	SPARE	121						120	SEL T.U. 9	SHIELD	SEL T.U. 8	116 SHIELD
140 -6V							133	+6V						126
155							148							141
170 -12V							163	GND						156
185	WRITE BUS C	SHIELD	WRITE BUS B	SHIELD	WRITE BUS A	SHIELD	178 WRITE BUS 8	SHIELD	WRITE BUS 4	SHIELD	WRITE BUS 2	SHIELD	WRITE BUS 1	171 SHIELD
200			SHIELD	WRITE PULSE	SHIELD	WRITE CHECK CHAR	193 SHIELD	WRITE ECHO PULSE	SPEC SHIELD ENG	SPEC SPARE ENG	SPEC SHIELD ENG	SPEC SPARE ENG	187 SPEC SHIELD ENG	SPEC SPARE ENG

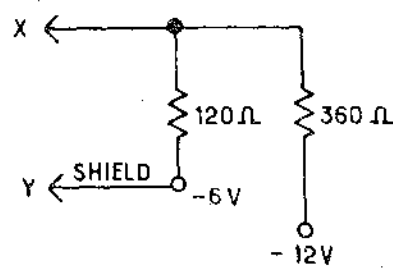
TAPE SIGNAL TERMINATOR

"N" LINE COUPLING NETWORK



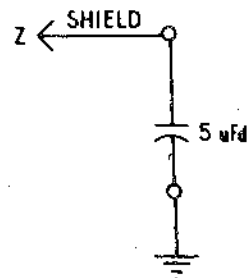
V	W
T/C 1	T/C 2
7	8
9	10
11	12
17	16
19	18
43	44
172	171
174	173
176	175
178	177
180	179
182	181
184	183
194	195
196	197
	48

"P" LINE COUPLING NETWORK



X	Y
T/C 3	T/C 4
5	6
13	14
39	40
41	42
77	76
79	78
86	87
88	89
97	96
99	98
106	107
108	109
117	116
119	118

RESPONSE LINE DECOUPLING



Z	
T/C 20	T/C 46
22	52
24	54
26	56
28	58
32	68
34	70
36	72
38	74
	114
	193

NOTE I * TERMINATOR ASM
P/N 348 590 ("A" STANDARD)
P/N 348 591 ("B" SPECIAL)
NOTE II * ONE NETWORK PER CONTROL LINE

IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°	5344820
NOM	SYSTEMS DIAGRAM			31.12.63	EC 253 508						
RA. 10.20.0				9.6.64	JT 85814						
PROJET		TYPE	729B	26.4.67	731177						
DESSIN	RD 4226.2.64	ECHEL.									
VERIF.	3.3.64	CALQ.									
APPR.		VERIF.									

RA. 10.20.0

5344821

RA.10.30.0

WRITE HEAD CABLE CHART

TRACK	WIRE NO. + COLOR	HEAD SOC. PIN	PADDLE CARD CONN.	LOGIC BLOCK PIN
1	1 WH 1 BK 1 RED 1 SHIELD	C R B -	C01A C01B C01C COM.**	B01K G13E* B01B
2	2 WH 2 BK 2 RED 2 SHIELD	D T S -	C01E C01F C01G COM.**	B01J G13E* B01D
4	3 WH 3 BK 3 RED 3 SHIELD	U F E -	C01K C01L C01M COM.	B01L G13E* B01P
8	4 WH 4 BK 4 RED 4 SHIELD	V J H -	C01N C01P C01Q COM.**	B01M G13E* B01R
A	5 WH 5 BK 5 RED 5 SHIELD	W L K -	C02A C02B C02C COM.**	B02K G13E* B02B
B	6 WH 6 BK 6 RED 6 SHIELD	X M Y -	C02E C02F C02G COM.**	B02M G13E* B02R
C	7 WH 7 BK 7 RED 7 SHIELD	P N A -	C02K C02L C02M COM.**	B02L G13E* B02P

* WRITE COIL CENTER TAPS SUPPLIED +12 NFP VOLTAGE VIA G13E RA.40.25.1
 ** SHIELD WIRES ARE COMMON AT CO1R & C02R. CO1R & C02R ARE TIED TO GROUND AT C06J

TERMINAL BLOCK LOCATIONS

TB**	LOCATION
1	SMS GATE - TOP CENTER
2	SMS GATE - LOWER LEFT (WRITE)
3	SMS GATE - LOWER RIGHT (READ)
4	DC. POWER SUPPLY INPUT
5	TOP COVER MOTORS
6	DC. POWER SUPPLY REGU.
7	AC. RACEWAY TO MOTORS
8	PROLAY CONTROL BOX
9	DC. POWER SUPPLY OUTPUT
10	LEFT REEL MOTOR CASTING
11	RIGHT REEL MOTOR CASTING
12	EDDY CURRENT SWITCH
13	AC. BOX
14	REEL MOTOR CTRL RES BOX

RESISTOR LOCATIONS

NUMBER	DESCRIPTION & LOCATION
POT 1	HS REWIND (RIGHT OF AC. (P))
POT 2	PHOTO LAMP (RIGHT OF POT 1)
R 3	HS REWIND LAMP (RT OF POT 2)
R 4	LEFT PARTIAL BRAKE (UP. RIGHT OF R3)
R 5	PHOTO LAMPE RES (LW. RIGHT OF R3)

IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			10-10-63	EC 253500					
	RA.10.30.0			23.4.64	EC 253782					
PROJET		TYPE	729B	9-6-64	JT 85814					
DESSIN	RD32	26.264	ECHEL.							
VERIF.	13	2.3.64	CALQ.	21.5.64	EC 253760					
APPR.			VERIF.	26-6-64	JT 85645					
										RA.10.30.0

5344821

8026 479

RA.10.40.0.

CIRCUIT PROTECTOR CHART & A.C. PWR.
CP

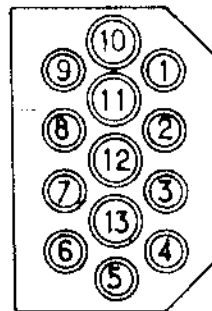
CP #	VOLTAGE	CURRENT	FUNCTION	PART NO.
1	-48V	3 A	RELAY GATE & OP. PANEL	8 011 179
2	-48V	7 A	REEL MOTORS	8 023 881
3	-48V	8 A	PROLAY CONTROL BOX & LOGIC PANEL	8 016 931
4	208V	10A	Ø 1 LINE	8 016 938
5	208V	10A	Ø 2 LINE	8 023 881
6	208V	7 A	Ø 3 LINE	8 023 881
7	208V	7 A	Ø 1 POWER SUPPLY	8 023 881
8	208V	5 A	VACUUM PUMP, EX HAUSTFAN PRESSURE BLOWER & REWIND	8 023 821
9	208V	3A	CAP MOTORS HEAD & TAPE TAKE UP MOTORS Ø 2	2 092 387
10	208V	3A	CAP, MOTORS HEAD & TAPE TAKE UP MOTORS Ø 1	2 092 387

POWER SUPPLY CB

CB #	VOLTAGE	CURRENT	PART NO.
1	-6	2A	8 021 667
2	+6	3A	2 092 387
3	-12	5A	8 023 834
4	+12	2A	8 021 667

TAPE POWER CONNECTORS

POWER PLUG PIN ASSIGNMENTS				
	TAPE UNIT VOLTAGE OR CONTROL	POWER CABLE		SYSTEMS PAGE
		WIRE SIZE	TYPE	
1	AC OUTLET - 115 VOLTS	14	AC	RA.40.85.1
2	AC OUTLET - 115 VOLTS	14	AC	RA.40.85.1
3	BOND	14		
4	NEUTRAL	18		RA.40.85.1
5	MODEL II & IV RESET - 220 VOLTS	18	AC	RA.40.85.1
6	SPARE	18		
7	SPARE	18		
8	SPARE	18		
9	AC OUTLET 220 VOLTS	18	AC	RA.40.85.1
10	MODEL II & IV RESET - 220 VOLTS	18	AC	RA.40.85.1
11	UNREG AC Ø 1	10	AC	RA.40.85.1
12	UNREG AC Ø 2	10	AC	RA.40.85.1
13	UNREG AC Ø 3	10	AC	RA.40.85.1



PIN LAYOUT - POWER PLUG - MALE

USAGE S.I
FIELD USE

IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			10-10-63	EC 253500					
	RA.10.40.0			9-6-64	JT 85814					
PROJET		TYPE	729B	4-12-64	JT 86363A					
DESSIN	RD4226.2.64	ECHÉL								
VERIF		CALQ								
APPR		VERIF								
										RA.10.40.0

8026 479

8026480

RA.10.50.0

RESISTOR CHART

NAME	LOCATION	PART NO
R-1 PARTIAL RIGHT BRAKE	RA.40.45.1	8019816
R-2 PHOTO LAMP INT. ADJ.	RA.40.15.1	300609
R-3 HS. AREA LAMP	RA.40.15.1	252816
R-4 PARTIAL LEFT BRAKE	RA.40.45.1	5355428
R-5 PHOTO LAMPS	RA.40.15.1	8023718
R-6 DRIVE PROLAY RES.	RA.40.55.1	8023862
R-7 DRIVE PROLAY RES.	RA.40.55.1	8023862
R-8 NEUTRAL PROLAY RES.	RA.40.55.1	2085710
R-9 DRIVE PROLAY RES.	RA.40.55.1	8023862
R-10 NEUTRAL PROLAY RES.	RA.40.55.1	8023861
R-11 NEUTRAL PROLAY RES.	RA.40.55.1	8023861
R-12 NEUTRAL PROLAY RES.	RA.40.55.1	8023863
R-13 DRIVE PROLAY RES.	RA.40.55.1	8023860
R-14 NEUTRAL PROLAY RES.	RA.40.55.1	8010801
R-15 NEUTRAL PROLAY RES.	RA.40.55.1	8010801
R-16 DRIVE PROLAY RES.	RA.40.55.1	8010801
R-17 DRIVE PROLAY RES.	RA.40.55.1	8010801
R-18 DRIVE PROLAY ADJ.	RA.40.55.1	8023865
R-19 NEUTRAL PROLAY ADJ.	RA.40.55.1	5331863
R-20 COAST POT	RA.40.55.1	8011018
R-21 BRAKE RESISTOR	RA.40.45.1	2063870
R-22 AT LOAD POINT	RA.40.35.1	603088
R-23 PARTIAL LEFT BRAKE	RA.40.45.1	8018018
R-24 TAKE UP CLAMP	RA.40.35.1	5323495
R-25 T.W. BRAKE ADJ.	RA.40.45.1	8016679
R-26 ADDRESS LITE	RA.40.25.1	5311104
R-27 T.W. BRAKE RES	RA.40.45.1	8023820

CAPACITORS

	P/N	LOC.
C1-15	528411	RA.40.85.1
C16-18	5344905	RA.40.15.1
C19	556839	RA.40.25.1
C20-35	5344839	RA.40.45.1
C36	5331850	RA.40.25.1

WIRE CONTACT RELAY

RELAY	1	2	3	4	5	6	PICK COIL	HOLD COIL	PART NO.
101	B1	A1	A1	A6	A6	B2	B 1	B 1	196 197
103	A1	A3	B6	A6		A2	B 1	B 1	196 197
105	B5	A6	A2	A3			B 5	B 5	196 207
110	A1	A1		A2	A2	A6	B 6	B 6	196 197
112	A6	B6	A3	A2	B6	A2	B 6	B 6	196 197
114	B1	B1	A1	A1			B 1	B 1	196 207
116	A1			A1			B 1	B 1	196 207
117	A3	B5	B2	A3	A3	A3	B 3	B 3	196 197
120	A4	A4	A4	A4			B 4	B 4	196 207
122	B6						B 3	B 3	196 207

DUO RELAY

RELAY	COIL	AL	BL	AU	BU	PART NO.
1	B4	A7	B5	A5	B5	124 843
2	B3	B5	A3	A2	B5	124 843
3	B3	A5	A3	B4	B5	124 843
4	A5	A6	B3	B2	B3	124 843
5	A5	B2	B3	A2	A6	124 843
6	B6	A3	B6	A6	A3	124 843
7	A5	B8	A6	B7	B5	124 843
8	B2	A5	A1			111 351
9	B3	B8	B5	B7	A7	124 843
10	A5			A7	A3	111 351
NFP-1	B3	B3	A4			530731

D.P. RELAY

RELAY	COIL	A	B	PART NO.
1	A5	RA.40.85.1	RA.40.85.1	594 284
2	A5	RA.40.85.1	RA.40.85.1	594 284
3	A5	RA.40.85.1	RA.40.85.1	594 284
4	B6	RA.40.85.1	RA.40.85.1	594 284
5	B3	RA.40.85.1	RA.40.85.1	594 284
6	B3	B3	RA.40.85.1	594 284
7	B3	RA.40.85.1	RA.40.85.1	5323485
8	A5	B8	B8	594 284

IBM		CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM	18.11.63	EC 253505	26.6.64	JT 85645		
	RA - 10.50.0	18.2.64	EC 253515		ECR 90028		
PROJET		13.4.64	EC 253782	18.11.64	EC 254337		
DESSIN	RD32 26-264				JT 85814	21.12.64	JT 86507
VERIF.	3.3.64						
APPR.							

RA.10.50.0

8026480

8026481

COMPONENT LOCATION CHART
SELENIUM RECTIFIER (SR)
P/N 315 902

RA.10.60.0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A7	A7	A5	A5	A7	A7	A7	A7	B3	A5	B1	B1	A7	B3	B5	A7	B7

SILICON RECTIFIER (SL)

1	2	3	4
B8	B8	B8	B8
P/N 598 479			

DIODE

20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
B3	B1	B1	B5	B6	B6	B1	A5	A5	A5	A5	A5	A5	B3	B6	B3	B3	B3	B7	B8
P/N 599 686							P/N 599 917												

SWITCH

NAME	LOC.
CHANGE DENSITY	A1
START	B1
RESET 1	A6
RESET 2	B1
UNLOAD 1	A6
UNLOAD 2	A3
REEL RELEASE 1	A7
REEL RELEASE 2	B3
DOOR INTERLOCK	B4
HEAD UP	B5
HEAD DOWN	B5
REWIND MOTOR THERMAL	B2
REELS STOPPED	A3
VACCUM	B4

NAME	LOC.
LT. CAP. IN	A5
RT. CAP. IN	A5
LT. CAP. OUT	B5
RT. CAP. OUT	B5
TAPE IN RT. COL. A	A5
TAPE IN RT. COL. B	A7
TAPE IN LT. COL. A	A5
TAPE IN LT. COL. B	A7
RT. COL. LOWER	A8
RT. COL. UPPER	A7
LT. COL. LOWER	A7
LT. COL. UPPER	A7
LOAD REWIND	A5
POWER ON/OFF	

LAMPS & LIGHTS

NAME	LOC.
FILE PROTECT LIGHT	A4
FUSE LIGHT	A4
H.S. AREA LAMP	A2
LOAD POINT LAMP	A2
READY LIGHT	A6
SELECT LIGHT	A6
TAPE BREAK LAMP	A2
TAPE INDICATE LAMP	A2
TAPE INDICATE ON LIGHT	A6
ADDRESS LIGHT	A4
LINE POWER	
MACHINE POWER	
HI & LO DENSITY LIGHTS	B1

PHOTOCELLS

NAME	LOC.
H.S. AREA	A2
LOAD POINT	B4
TAPE INDICATE	B4

R. C. NETWORKS

R.C. #	1	2	3	4
119	B4	B3	B4	B6
121	B6	B3	B1	

IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			18-11-63	EC 253 505					
	RA.10.60.0			23.4.64	EC 253 782					
PROJET		TYPE	729 B		JT 85814					
DESSIN	RD42272.64	ECH.			ECR 90028					
VERIF.	2.3.64	CALQ.								
APPR.		VERIF.								

RA.10.60.0

8026481

8026482

CIRCUIT CARD LOCATION CHART
OIAI

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	CABLE RELAY TO SMS	RIGHT PROLAY CABLE	LEFT PROLAY CABLE	YHM 0370701 RA 30 90 1 RA 30 90 1 RA 30 90 1 RA 30 90 1 RA 30 90 1 RA 30 90 1	TG 8023359 RA 30 90 1 5D	WB 0371880 RA 30 90 1 2D		WB 0371880 RA 30 90 1 2E		WB 0371880 RA 30 90 1 3E		WB 0371880 RA 30 90 1 1A		WB 0371880 RA 30 90 1 2B
B	V & VI YEL 370668 II & IV JUMP 348542 RA 30 60 1	V & VI AUS 372266 II & IV JUMP 348542 RA 30 60 1				WB 0371880 RA 30 90 1 1F		WB 0371880 RA 30 90 1 2F		WB 0371880 RA 30 90 1 4G		WB 0371880 RA 30 90 1 4H		WB 0371880 RA 30 90 1 4I
C	WRITE HEAD CABLE	WRITE HEAD CABLE	LZ 0371674 RA 30 60 1 2E	LZ 0371674 RA 30 60 1 2C	LZ 0371674 RA 30 60 1 2D	LZ 0371674 RA 30 60 1 2F	LZ 0371674 RA 30 60 1 2F	LZ 0371674 RA 30 60 1 2G	LZ 0371674 RA 30 60 1 2H		T C J 0370333 RA 30 05 1	C D 0371029 RA 30 05 1 RA 30 05 1 RA 30 40 1 4C	M X 0371661 RA 30 10 1 3D RA 30 30 1 3B RA 30 40 1 2G RA 30 80 1 4D	
D			AR 0371034 RA 30 60 1 3S	AR 0371034 RA 30 60 1 3C	AR 0371034 RA 30 60 1 3D	AR 0371034 RA 30 60 1 3E	AR 0371034 RA 30 60 1 3F	AR 0371034 RA 30 60 1 3G	AR 0371034 RA 30 60 1 3H		MX 0371661 RA 30 10 1 3C RA 30 80 1 1I RA 30 80 1 2I RA 30 80 1 4F	MX 0371661 RA 30 10 1 2D RA 30 30 1 2B RA 30 40 1 2E RA 30 80 1 1A	MX 0371661 RA 30 90 1 3B RA 30 90 1 4A RA 30 90 1 4B RA 30 90 1 5B	
E			AYWS 0371041 RA 30 60 1 4B	AYWS 0371041 RA 30 60 1 4C	AYWS 0371041 RA 30 60 1 4D	AYWS 0371041 RA 30 60 1 4E	AYWS 0371041 RA 30 60 1 4F	AYWS 0371041 RA 30 60 1 4G	AYWS 0371041 RA 30 60 1 4H		CD 0371029 RA 30 40 1 3F RA 30 50 1 2A RA 30 80 1 2G	CEYB 0371032 RA 30 10 1 3A RA 30 40 1 4B RA 30 60 1 RA 30 60 1	MX 0371661 RA 30 80 1 3A RA 30 80 1 4B RA 30 80 1 4C RA 30 80 1 4I	
F	WRITE BUS CABLE		T C J 0370333 RA 30 30 1 2F RA 30 30 1 3E RA 30 30 1 4F RA 30 30 1 4H	T C J 0370333 RA 30 30 1 2H RA 30 30 1 3G RA 30 30 1 3I RA 30 50 1 5B	A U C 0372160 RA 30 50 1 2G RA 30 50 1 4G RA 30 50 1 5A RA 30 50 1 2F	A U C 0372160 RA 30 50 1 2I RA 30 50 1 4H RA 30 50 1 4I RA 30 50 1 2H		AUD 0372161 RA 30 50 1 4C		NM 0371666 RA 30 80 1 5E RA 30 80 1 5F RA 30 80 1 5G RA 30 80 1 5H	M H 0371487 RA 50 40 1 2B RA 30 40 1 2H RA 30 50 1 1A RA 30 50 1 5C	TAU 0370129 RA 30 30 1 4C RA 30 40 1 1A RA 30 50 1 3B RA 30 80 1 2S	NM 0371666 RA 30 10 1 5C RA 30 50 1 3A RA 30 80 1 5C RA 30 80 1 5D	NM 0371666 RA 30 20 1 5D RA 30 40 1 5A RA 30 40 1 5C RA 30 40 1 5E
G		WRITE	DELAY	TAPS	DLY LINE IV & VI - RP 371439 II & V - RP 371749 RA 30 50 1	DLY LINE IV & VI - RP 371439 II & V - RP 371749 RA 30 50 1	DLY LINE IV & VI - RP 371439 II & V - RP 371749 RA 30 50 1	APH 0370642 RA 30 20 1 1C RA 30 20 1 1D RA 30 40 1 1F RA 30 40 1 1G	CABLE 1/D OUT	CABLE 3/D OUT	APG 0370641 RA 30 20 1 1G RA 30 20 1 1H RA 30 40 1 1D RA 30 60 1 1I	APH 0370642 RA 30 10 1 2C RA 30 30 1 1C RA 30 30 1 2D RA 30 30 1 3C	CABLE RELAY TO SMS	TCU 0370333 RA 30 10 1 5A RA 30 20 1 5F

APPR		VERIF		DESSIN		PROJET		NOM		I BM		DATE		CHANGE N°		DATE		CHANGE N°		DEVELOPMENT N°	
						RA.10.70.0		SYSTEMS DIAGRAM		RA.10.70.0		31.12.63		253 508						RA.10.70.0	
				ECHELLE		TYPE				729		23.4.64		253 782							
		CALO		VERIF								21.5.64		253 760							
												20.6.64		1785645							

RA.10.70.0
FEUILLE 1/2

8 026482

8026482

CIRCUIT CARD LOCATION CHART
01A1

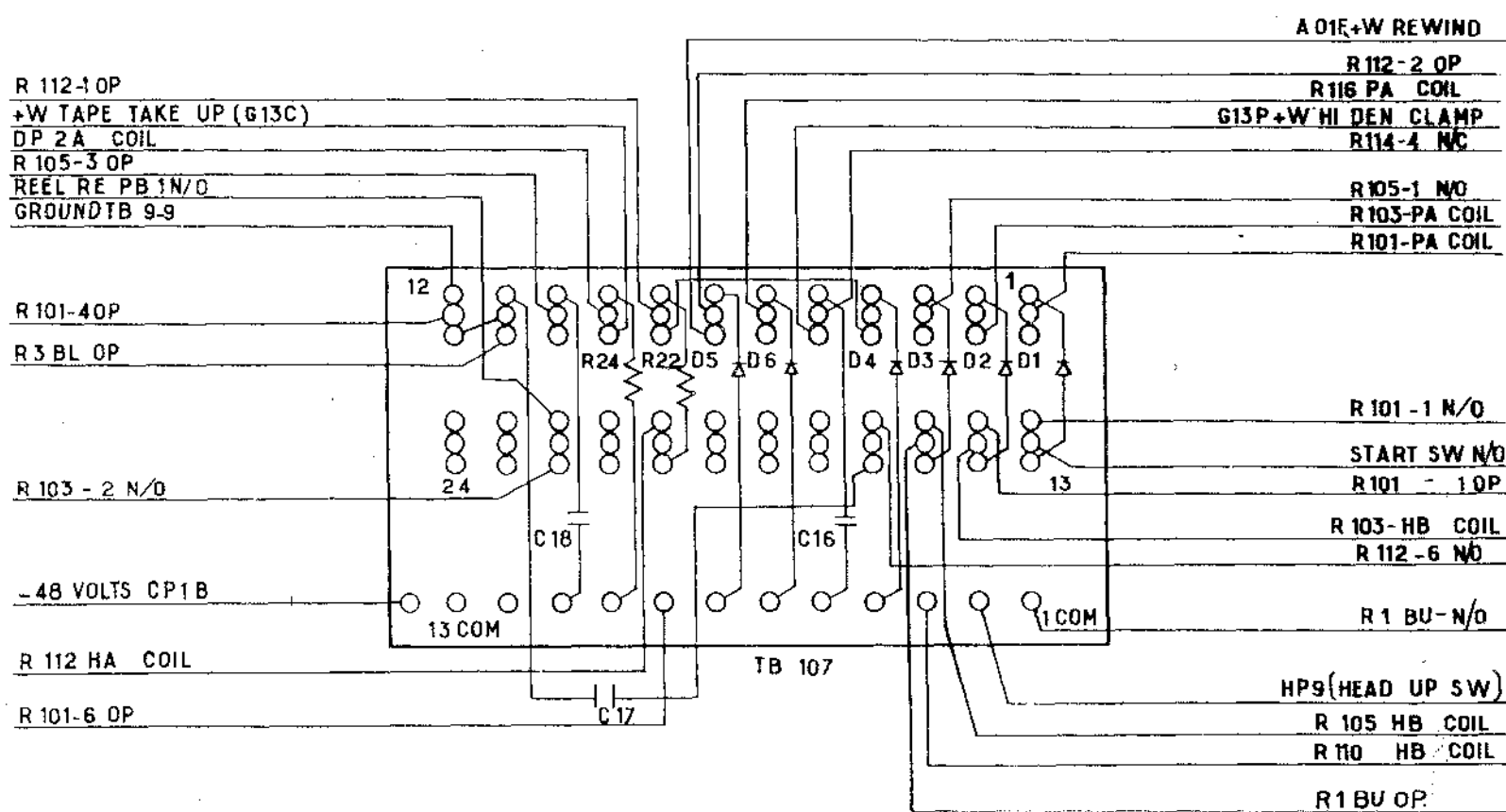
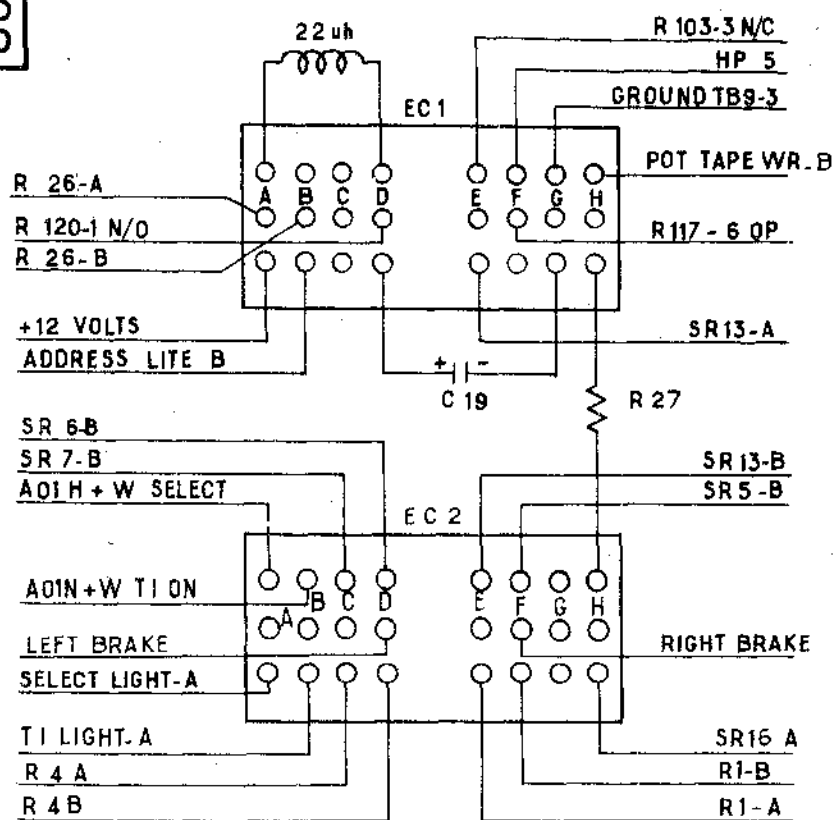
	15	16	17	18	19	20	21	22	23	24	25	26	27	28
A		WB ---- 0371880 RA 30 90 1 2 C				MD ---- 0371497 RA 30 10 1 1 A RA 30 10 1 1 B RA 30 10 1 1 D		MD 0371497 RA 30 40 1 1 H RA 30 30 1 1 B RA 30 00 1		MD 0371457 RA 30 20 1 1 A RA 30 20 1 1 E RA 30 40 1 1 H				
B		WB ---- 0371880 RA 30 90 1 2 C		WB ---- 0371880 RA 30 30 1 1 A										
C	TAU - 0370129 RA 30 20 1 4 F RA 30 20 1 4 G RA 30 40 1 3 A RA 30 40 1 4 A	RIX ---- 0371661 RA 30 20 1 3 A RA 30 20 1 3 C RA 30 80 1 2 F RA 30 30 1 3 A	TAU - 0370129 RA 30 20 1 2 S RA 30 20 1 3 D RA 30 20 1 4 D RA 30 40 1 3 E	MX ---- 0371661 RA 30 10 1 2 A RA 30 20 1 3 B RA 30 20 1 4 A RA 30 20 1 2 D	MA ---- 0371461 RA 30 20 1 2 C RA 30 20 1 4 E RA 30 20 1 4 A RA 30 40 1 2 B									
D	MX ---- 0371661 RA 30 10 1 RA 30 20 1 RA 30 20 1 RA 30 20 1 RA 30 30 1	DAC -- 0371951 RA 30 20 1 3 E RA 30 20 1 3 F RA 30 80 1 2 A		CD ---- 0371029 RA 30 20 1 3 B RA 30 20 1 4 A RA 30 80 1 3 S	YAW 0370452 RA 30 20 1 5 E	YAW 0370452 RA 30 20 1 5	CAP CARD 556991	ARA 0370685 RA 30 70 1 31 NOT SHIPPED WITH MACHINE	FC 0371408 RA 30 70 1 21 NOT SHIPPED WITH MACHINE	READ HEAD CABLE				PHOTO CELL CABLE
E	MX ---- 0371661 RA 30 80 1 2 E RA 30 60 1 3 C RA 30 80 1 3 G RA 30 90 1 5 I	CD 0371029 RA 30 40 1 4 B RA 30 40 1 4 E RA 30 80 1 3 I		TAU - 0370129 RA 30 20 1 2 D RA 30 40 1 3 D RA 30 40 1 5 D RA 30 90 1 2 F	MX -- 0371661 RA 30 30 1 3 D RA 30 40 1 3 F RA 30 40 1 4 G RA 30 40 1 4 H	AM - 1 AM - 1	AM - 1 MOD II MOD IV MOD V MOD VI	AM - 1 ACW AFA ARK A-Z RA 30 70 1	AM - 1 0370100 0371925 0370706 0370680	AM - 1	AM - 1			
F	APF --- 0370640 RA 30 10 1 5 B RA 30 40 1 5 H	APF --- 0370640 RA 30 30 1 5 A RA 30 00 1	APF --- 0370640 RA 30 20 1 5 H RA 30 80 1 5 I	CABLE METER	BKVZ 0371433 RA 30 30 1 1 D	AM - 2 AM - 2	AM - 2 MOD I MOD IV MOD V MOD VI	AM - 2 ACX ABK ARL APZ RA 30 70 1	AM - 2 0370099 0271926 0370707 0370681	AM - 2	AM - 2			
G	CABLE I/O IN	CABLE I/O IN	TCJ+ 0370333 RA 30 30 1 4 B RA 30 40 1 5 F RA 30 80 1 5 A		CABLE READ BUS I/O	BJ ---- 0371432 RA 30 70 1 2 A	BJ 0371432 RA 30 70 1 2 B	BJ 0371432 RA 30 70 1 2 C	BJ 0371432 RA 30 70 1 2 D	BJ 0371432 RA 30 70 1 2 E	BJ 0371432 RA 30 70 1 2 F	BJ 0371432 RA 30 70 1 2 G		

IBM		SYSTEMS DIAGRAM		RA10700	
NOM	PROJECT	DESIGN	VERIF	APPR.	
	TYPE	CHILL	CALO	VERIF	
	729				
DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°	
3-12-63	253 508	23-4-64	253 782	RA10700	
9-6-64	JT 85814	11-5-64	253 760		
26-6-64	JT 85845				
8026482					

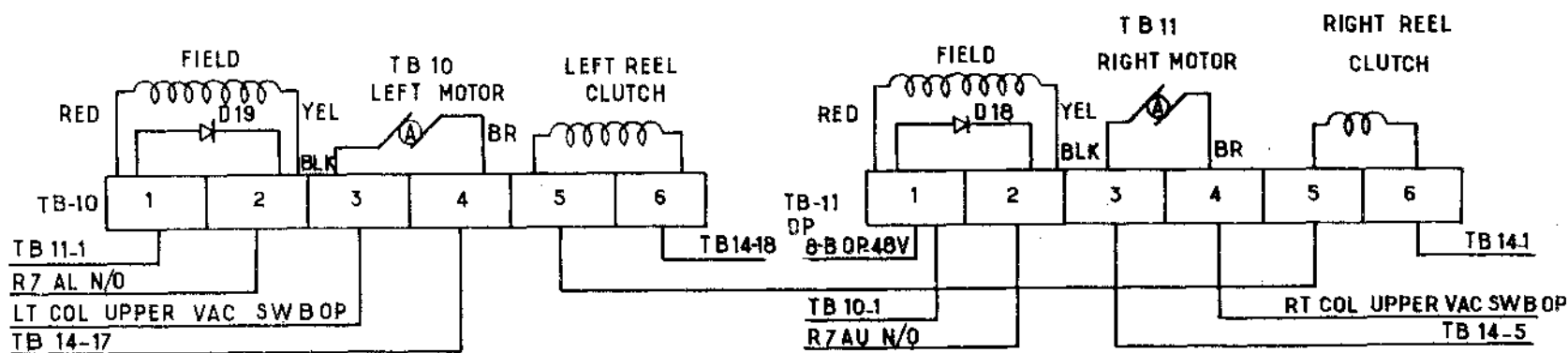
8026483

EDGE CONNECTOR AND TERMINAL BOARD LAYOUT

RA.10.80.0



WIRE SIDE
(COMPONENTS PLUGGED ON REVERSE SIDE)



IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			19.11.63	EC 253505					
RA.10.80.0				9.6.64	JT 85814					
PROJET		TYPE								
DESSIN	RD32	29-2-64	ECHEL.							
VERIF.	RD 27	3.3.64	CALQ.							
APPR.			VERIF.							

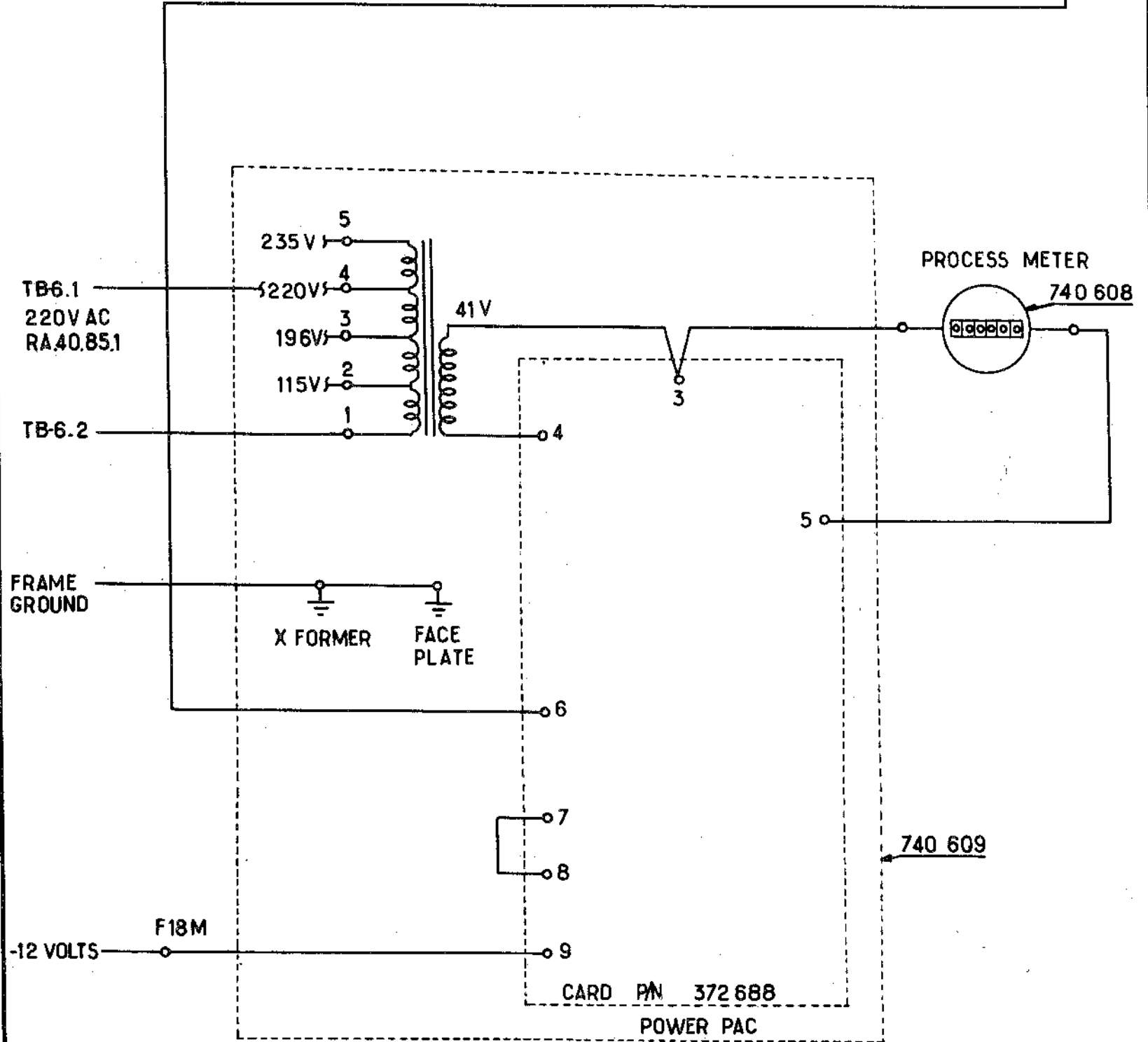
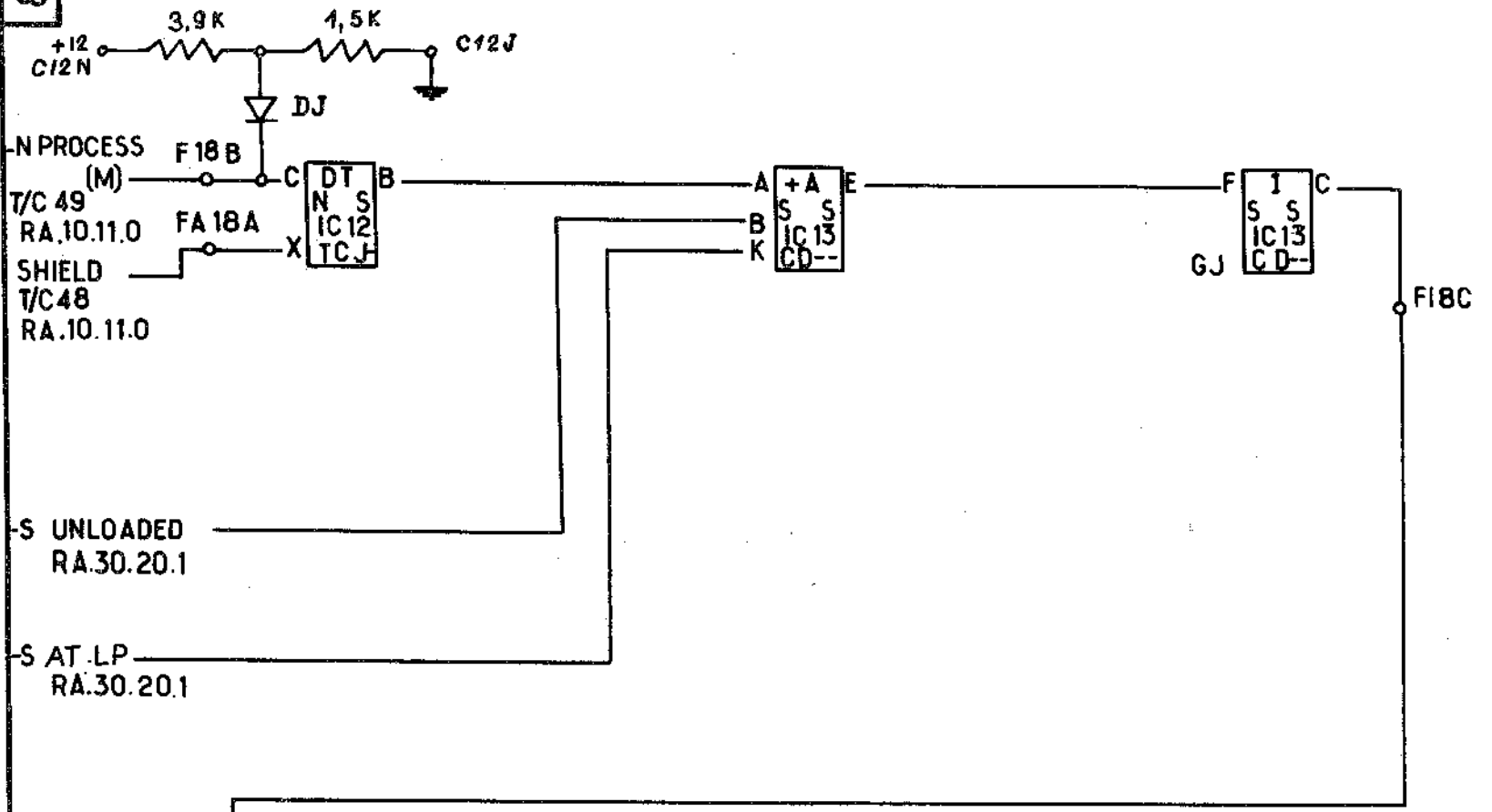
RA.10.80.0

8026483

8026489

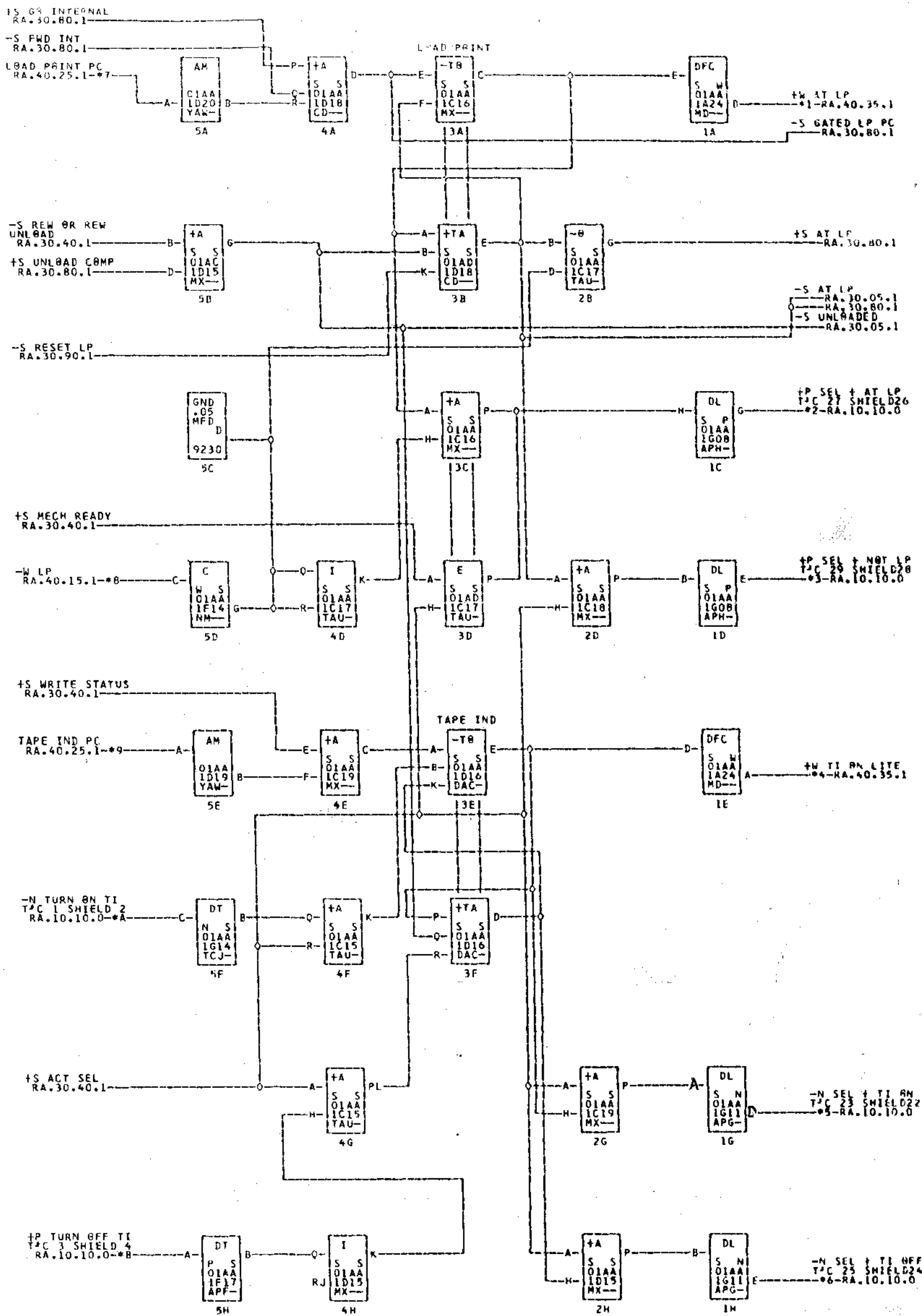
RA.30.05.1

PROCESS METER BOX AND SMS LOGIC



NOTE: IF THE EXTERNAL SIGNAL IS NOT AVAILABLE C 12B WILL ALSO WIRED TO C 12J (GROUND)

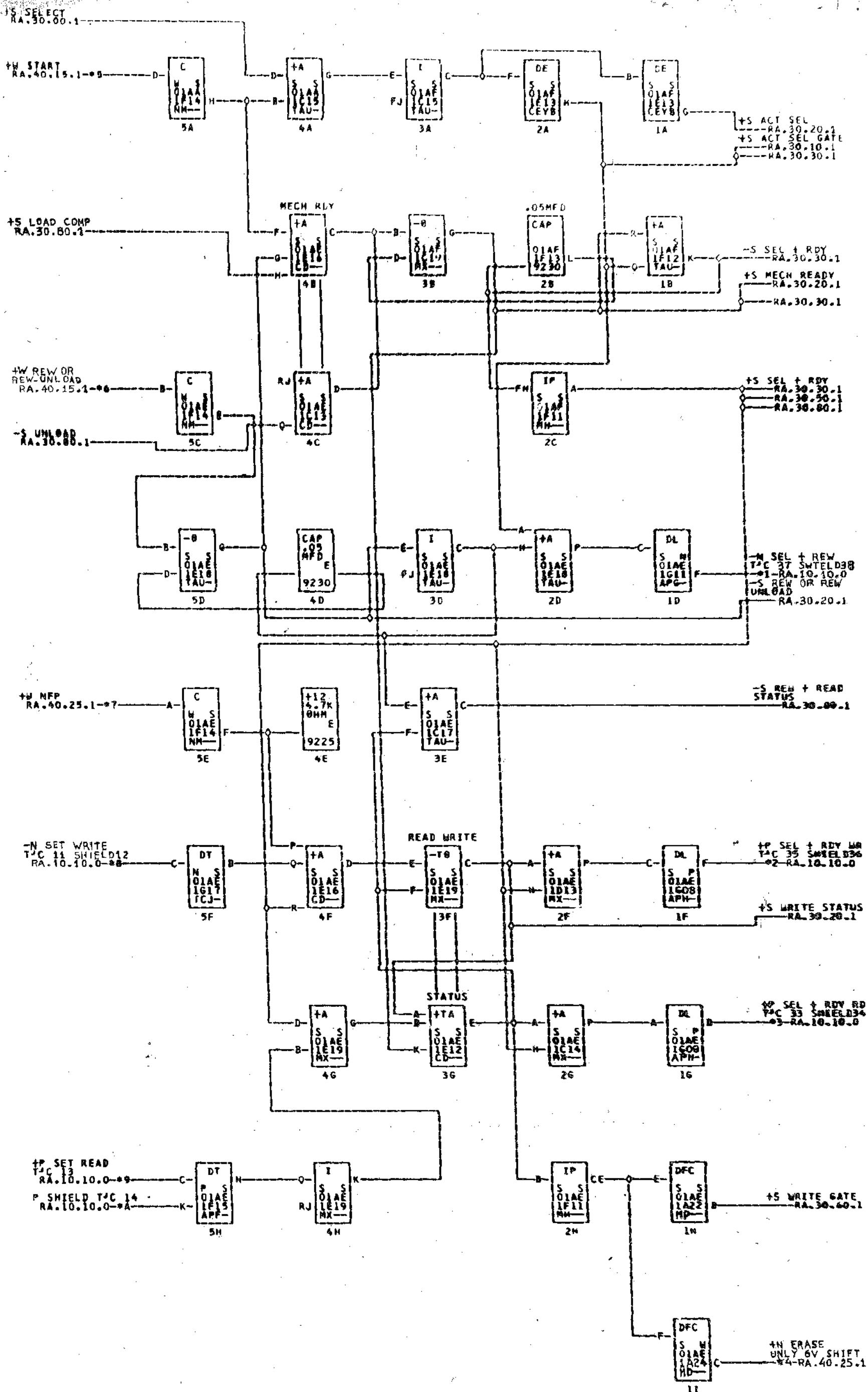
IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			2-1-63	EC 253508	27.4.67	731177			
	RA.30.05.1				JT 85814					
PROJET		TYPE	729	21.5.64	EC 253760					
DESSIN	RD32	5-3-64	ECHEL.	26.6.64	JT 85645					
VERIF.	RA27	5.3.64	CALQ.		JT 86869					
APPR.			VERIF.							
										8026489
										RA.30.05.1



*1--01A1A01G *2--01A1G09H *3--01A1G09K *4--01A1A01N *5--01A1G10F *6--01A1G10H *7--01A1D2HG *8--01A1G15D
 *9--01A1D20H *A--01A1G1AF *B--01A1G15D

NOTE I GOV CABLE PADDLE
 CARD COMMON DOES NOT CONNECT
 TO J PIN PURPOSE TO ISOLATE
 P SHIELD FROM GROUND PLANE.

TAG DATE E.C. NO. TAG DATE E.C. NO. TAG DATE E.C. NO. TAG DATE E.C. NO.
 A-08-17-63 73300 B-10-17-63 73305 C-10-17-63 73308 D-08-24-64 73110
 26.6.64 JT 85814
 EC 854103
 12.11.64 T 86407



*1--01A1010K *2--01A1009F *3--01A1009D *4--01A10A0D *5--01A1013S *6--01A1013M *7--01A1013F
 *8--01A1018D *9--01A1018A *A--01A1016N

1

NOTE: 1. RIO CABLE BUNDLE CARD COMMON DO NOT CONNECT TO SHIELDS TO ISOLATE SHIELDS FROM GROUND PLANE.
 TAG DATE E.C.NB. TAG DATE E.C.NB. TAG DATE E.C.NB. TAG DATE E.C.NB.
 9-6-64JT85814 4-11-64JT86363
 26-6-64JT85645

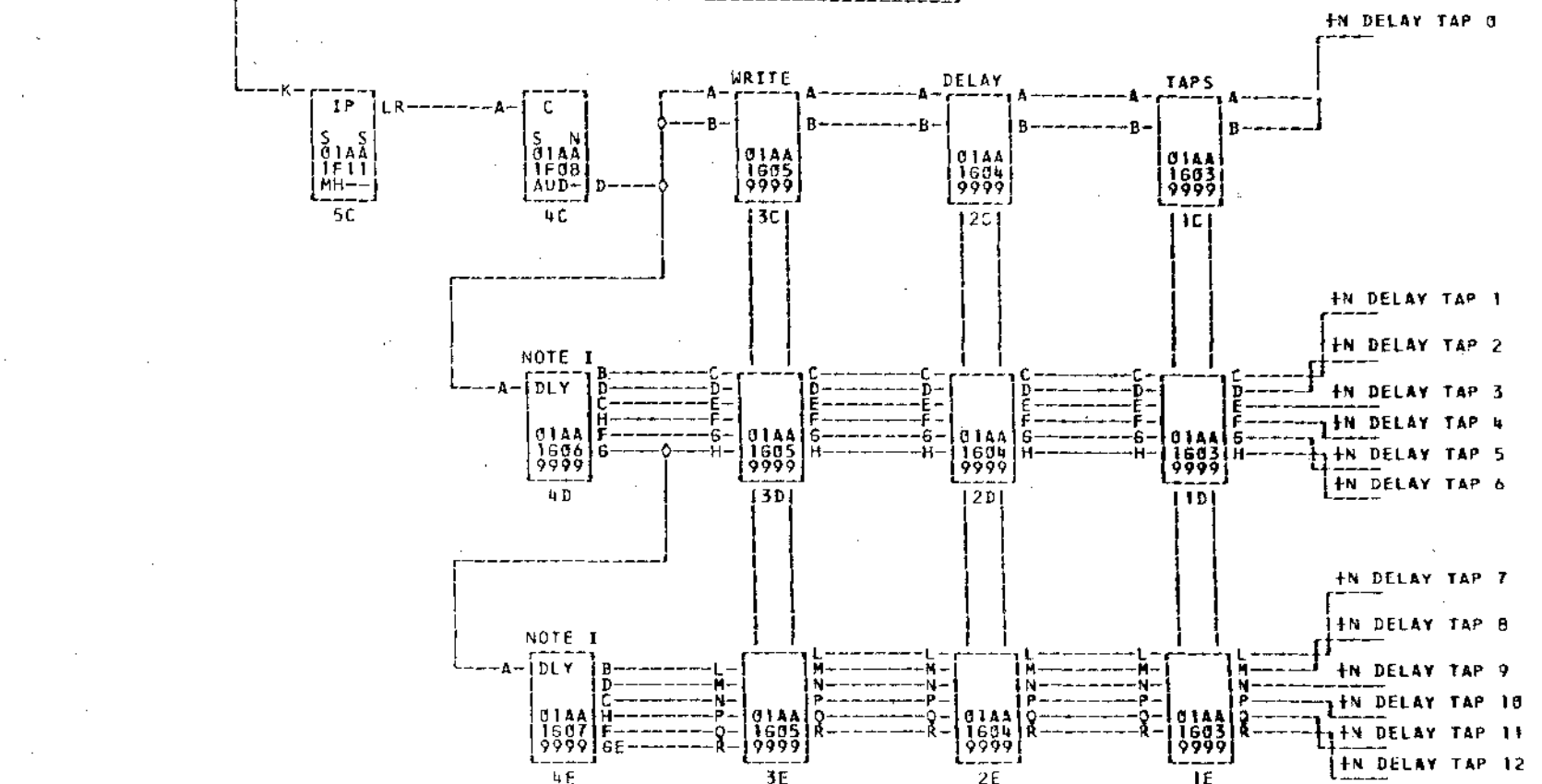
+W NOT POWER ON
RESET
RA.40.15.1-1

-N WR CH CHAR
T/C 194
RA.10.10.0-2
N SHIELD
T/C 195
RA.10.10.0-3

+S SEL + RDY
RA.30.40.1

-N WR PULSE
T/C 196
RA.10.10.0-4
N SHIELD
T/C 197
RA.10.10.0-5

-S WR TGR RESET
RA.30.60.1



+N WR TRACK 1
FROM DLY TAP

+S TRACK 1
WRITE PULSE
RA.30.60.1

+N WR TRACK 2
FROM DLY TAP

+N WR TRACK 4
FROM DLY TAP

+S TRACK 2
WRITE PULSE
RA.30.60.1
+S TRACK 4
WRITE PULSE
RA.30.60.1

+N WR TRACK 8
FROM DLY TAP

+N WR TRACK A
FROM DLY TAP

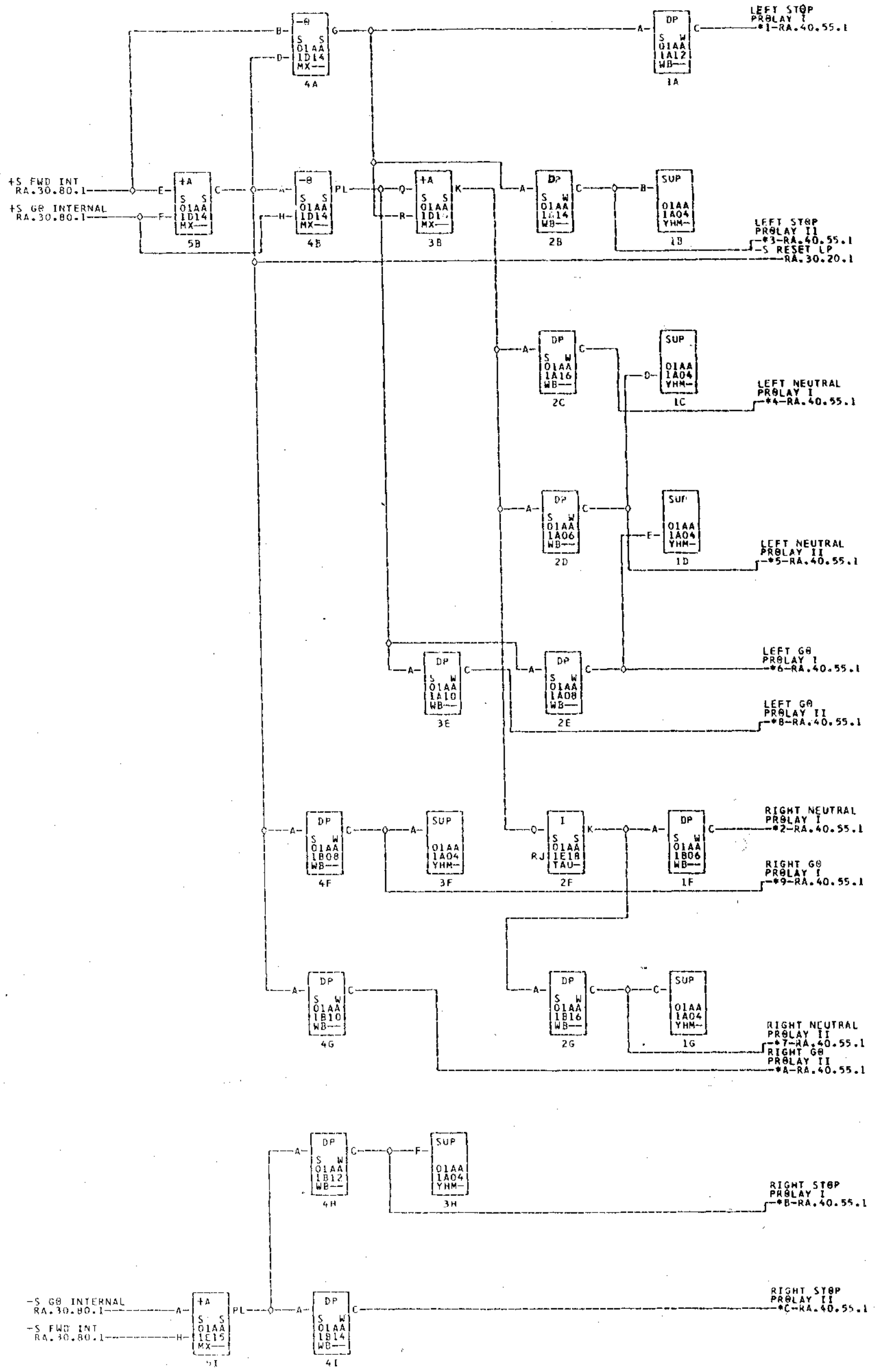
+N WR TRACK B
FROM DLY TAP

+S TRACK 8
WRITE PULSE
RA.30.60.1
+S TRACK A
WRITE PULSE
RA.30.60.1

+N WR TRACK C
FROM DLY TAP

+S TRACK B
WRITE PULSE
RA.30.60.1
+S TRACK C
WRITE PULSE
RA.30.60.1

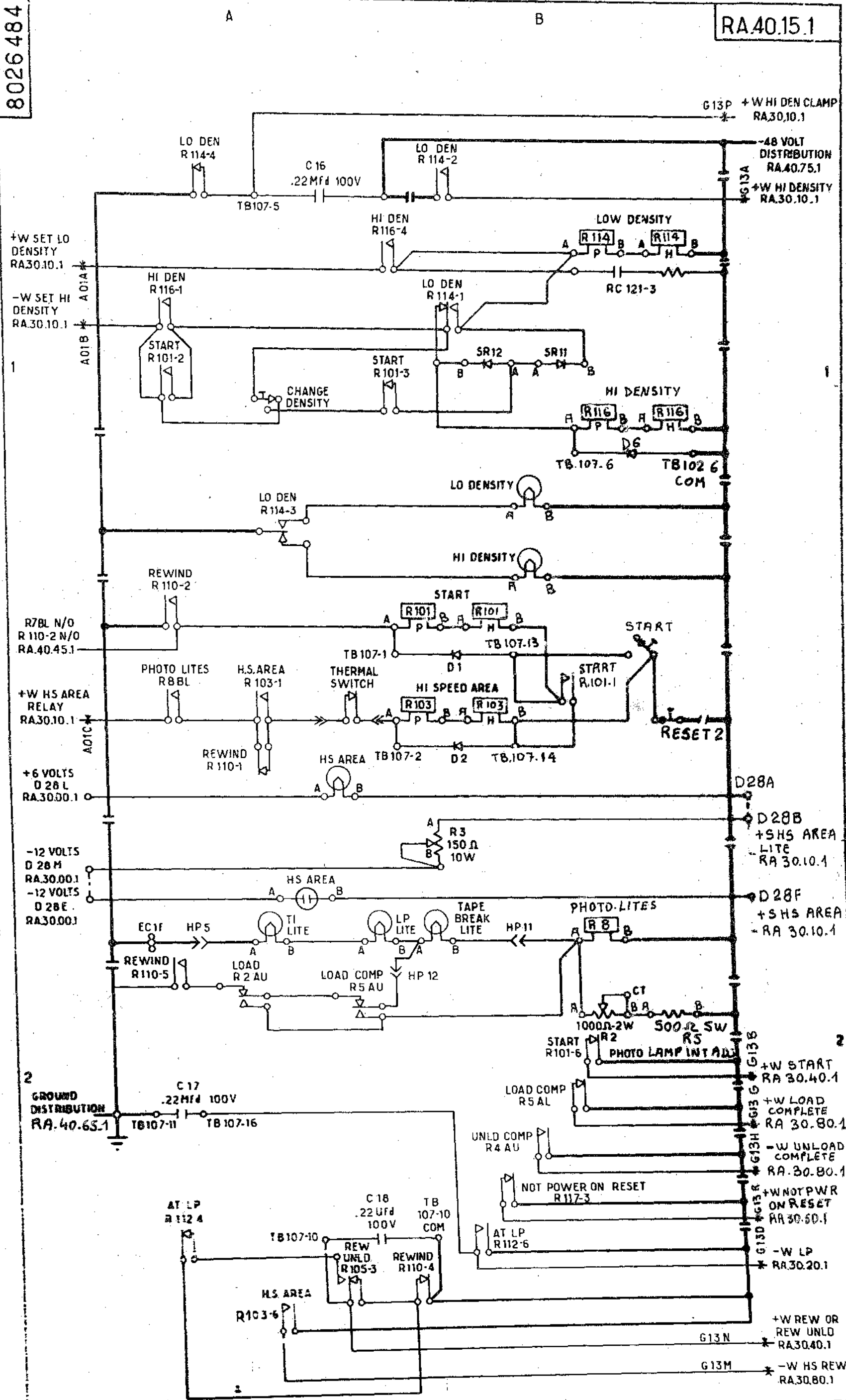
*1--01A1G13R--- *2--01A1S16M--- *3--01A1S16J--- *4--01A1F02R--- *5--01A1F02J---



*1--01A1A03A--01A1A03B *2--01A1A02N--01A1A02P *3--01A1A03K--01A1A03L--01A1A03M *4--01A1A03N--01A1A03P
 *5--01A1A03Q--01A1A03R *6--01A1A03C--01A1A03D--01A1A03E *7--01A1A02O--01A1A02R *8--01A1A03F--01A1A03G
 *9--01A1A02C--01A1A02D--01A1A02E *A--01A1A02F--01A1A02G *B--01A1A02A--01A1A02B--01A1A02M *C--01A1A02K--01A1A02L

8026484

RA40.15.1

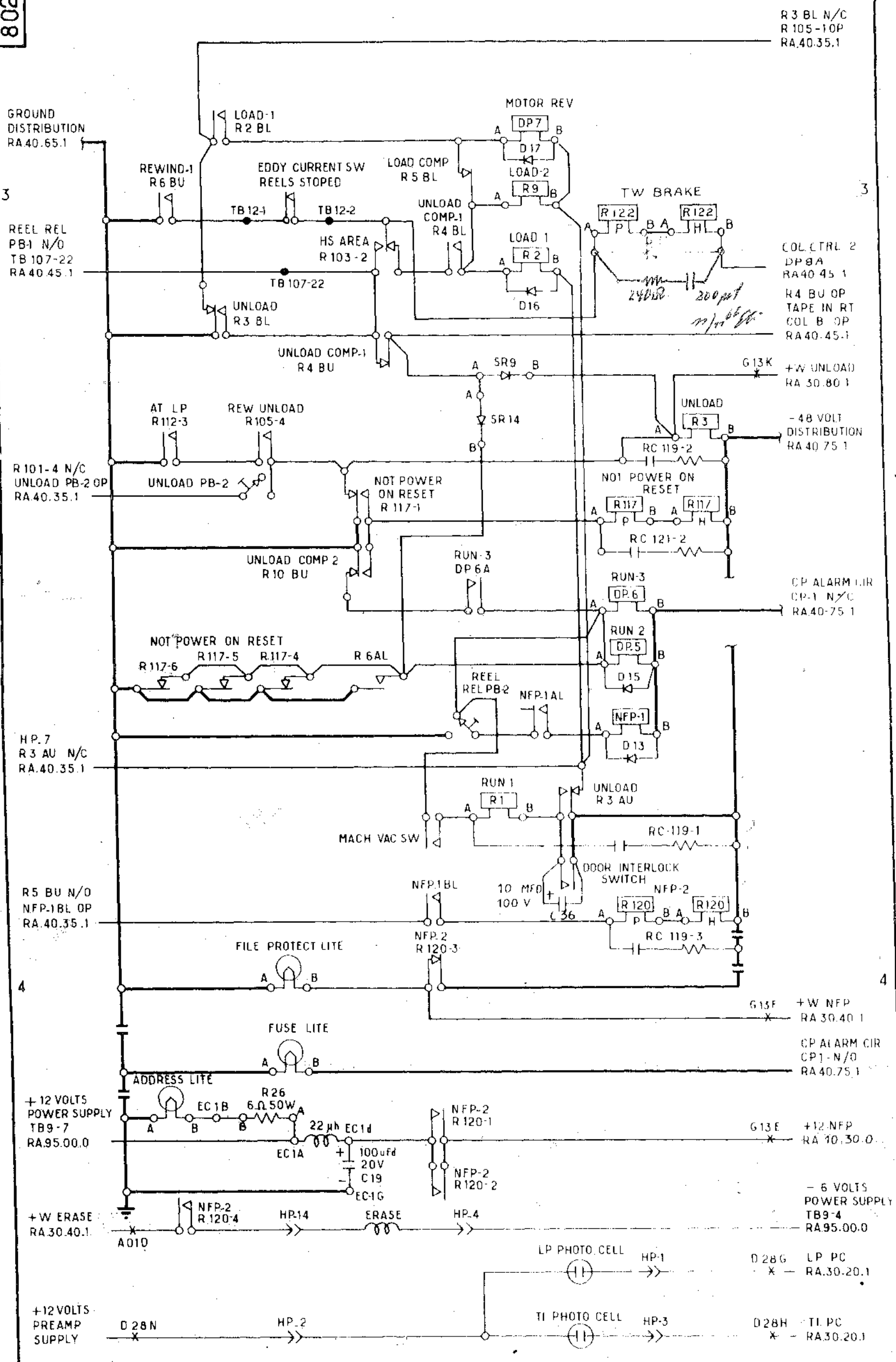


IBM			DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
SYSTEMS DIAGRAM			18-1-63	EC253505					8026484
RA40.15.1			18-2-64	EC253515					
PROJECT		TYPE		JT 95814					
DESIGN	1049	27-2-64	ECHEL						
VERIFY	1049	3-64	CALD.	21-1-65	EC254098				
APPD.			VERE	30-1-65	87441				

RA40.15.1

8026485

RA40.25.1



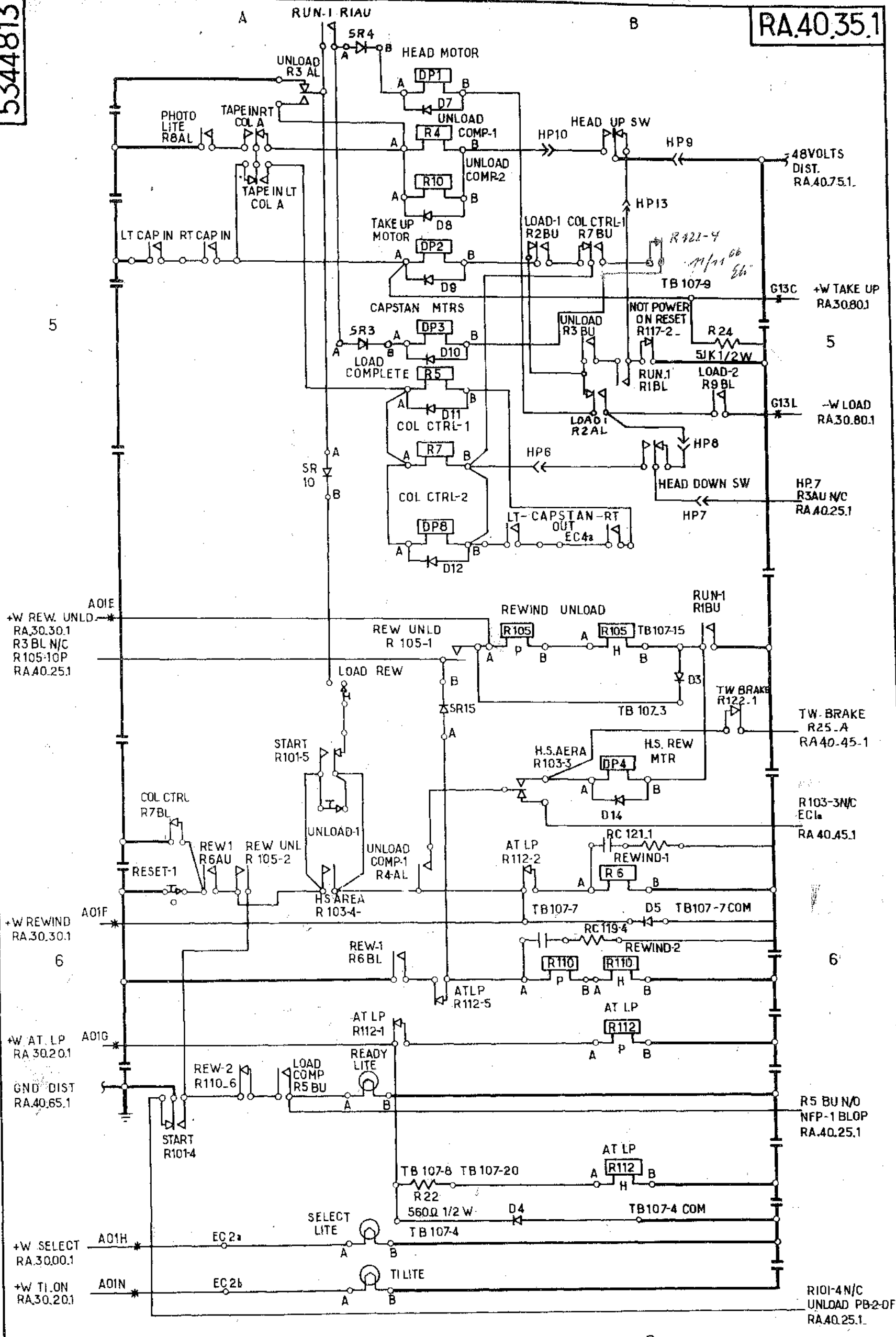
IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			18-11-63	EC 253505	26-6-64	JT85645			
	RA40.25.1			20-2-64	EC 253515					
PROJET		TYPE		23-4-64	EC 253782					
DESSIN	RD 49	28-2-63	ECHEL.	4-6-64	JT 85814					
VERIF.	R227	5-3-63	CALQ.	21-5-64	EC 253760					
APPR.			VERIF.							

RA.40.25.1

8026485

5344813

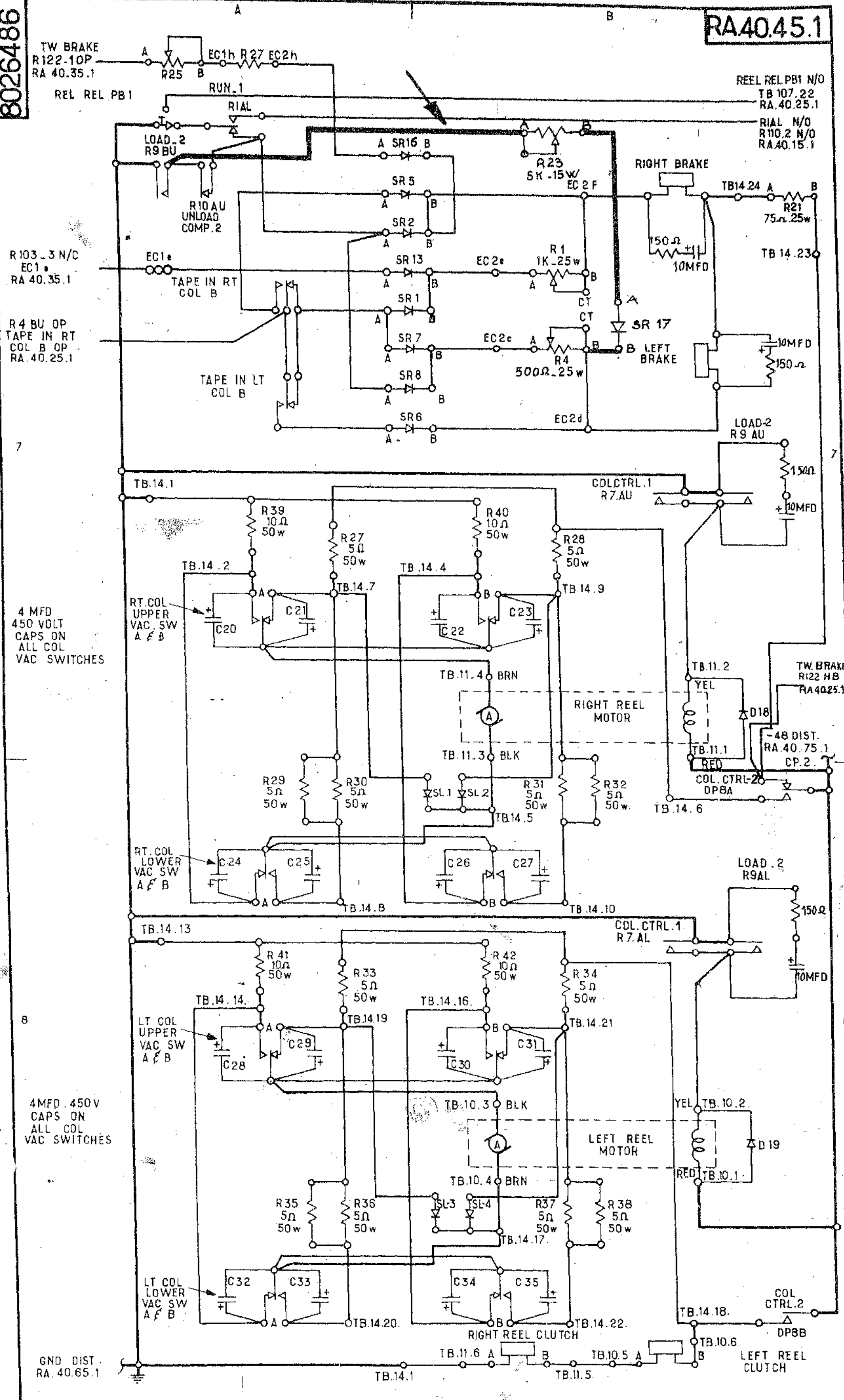
RA.40.35.1



IBM		DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°	5344813
NOM°	SYSTEMS DIAGRAM	18-11-63	EC 253505						
RA 40.35.1		20-2-64	EC 253515						
PROJET		TYPE	729B	23-4-64	EC 253782				
DESSIN	RD 46	27-2-64	ECHEL.						
VERIF.	RJ 27	2.2.64	CALQ.	9.6.64	JT 85814				
APPR.			VERIF.						
								RA.40.35.1	

8026486

RA40.45.1



IBM		DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM	18.11.63	EC 253505		ECR 90028			
	RA 40.45.1	19.2.64	EC 253515					
PROJET		23.4.64	EC 253782					
DESSIN	7/825 5.3.64		JT 85814					
VERIF.	RD27 5.3.64		JT 85645					
APPR.								

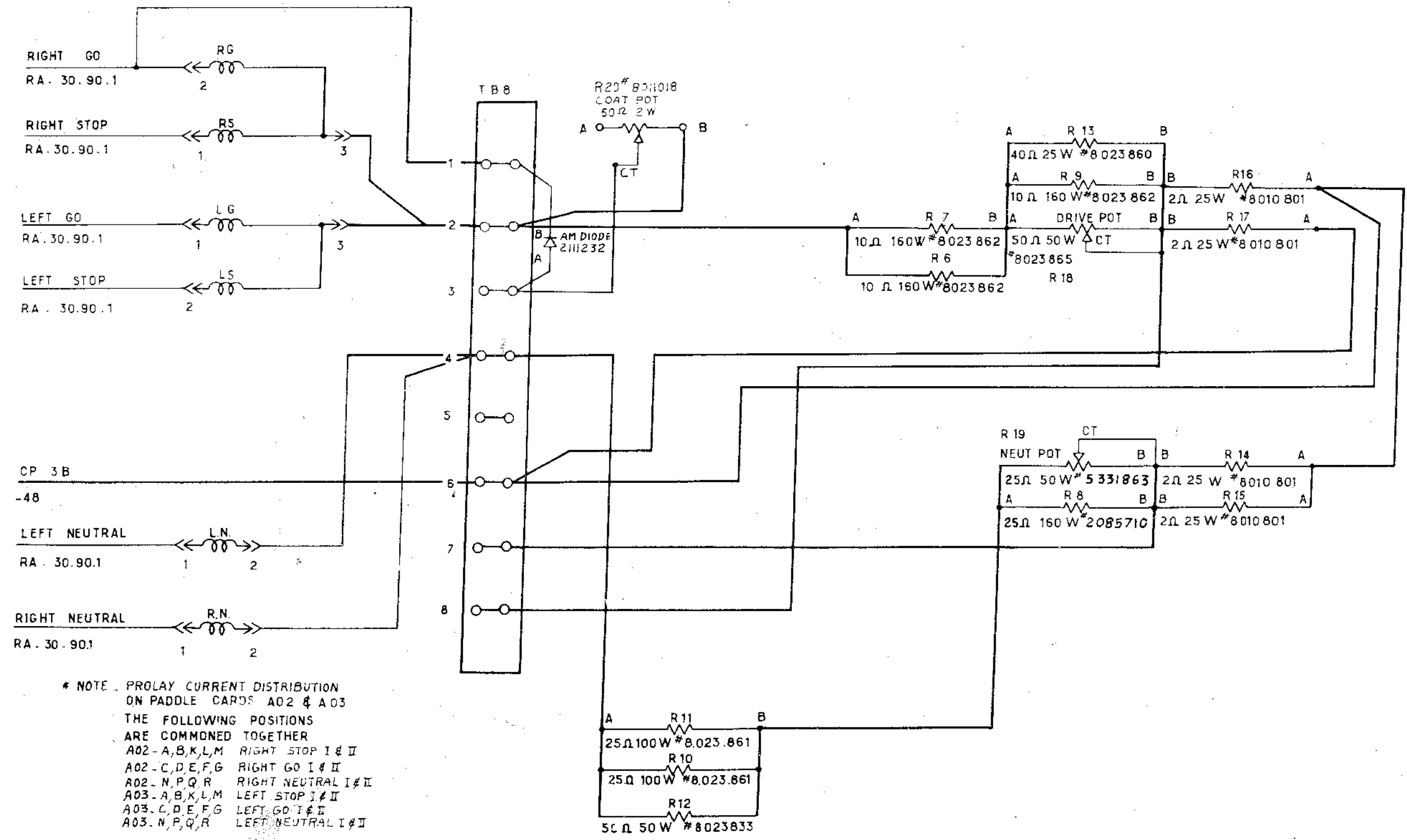
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RA40.45.1

IBM	
SYSTEMS DIAGRAM	
NOM	RA. 40.55.1
PROJECT	
DESIGN	S-S-64
VERIF.	3.3.64
APPR.	
TYPE	729
ECHL.	
CAIQ.	
VERIF.	

DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°
10-10-63	EC 253500	9/12/64	78650Z		
19-2-64	EC 253515				
21-4-64	EC 253782				
18-11-64	JT 85814				
	EC 254337				

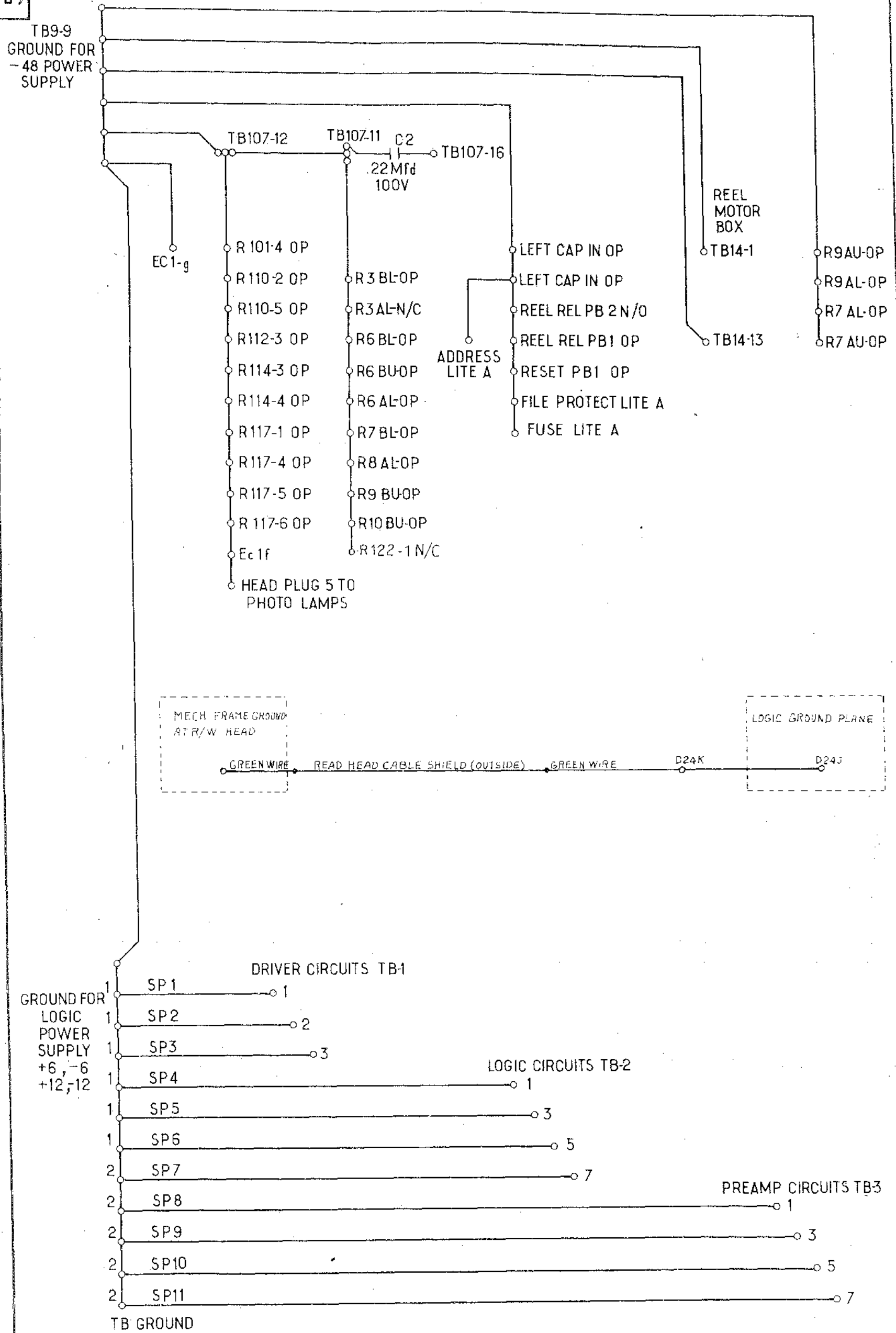
DEVELOPMENT N°	
RA.40.55.1	
8026487	



5344816

RA.40.65.1

GROUND DISTRIBUTION



IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			18-11-63	EC 253 505					
	RA 40-65-1			19 2 64	EC 253515					
PROJET			TYPE	9 6 64	JT 85814					
DESSIN	RD 49	5-3-63	ECHEL							
VERIF.	RD 27	5.3.63	CALO.							
APPR.			VERIF.							

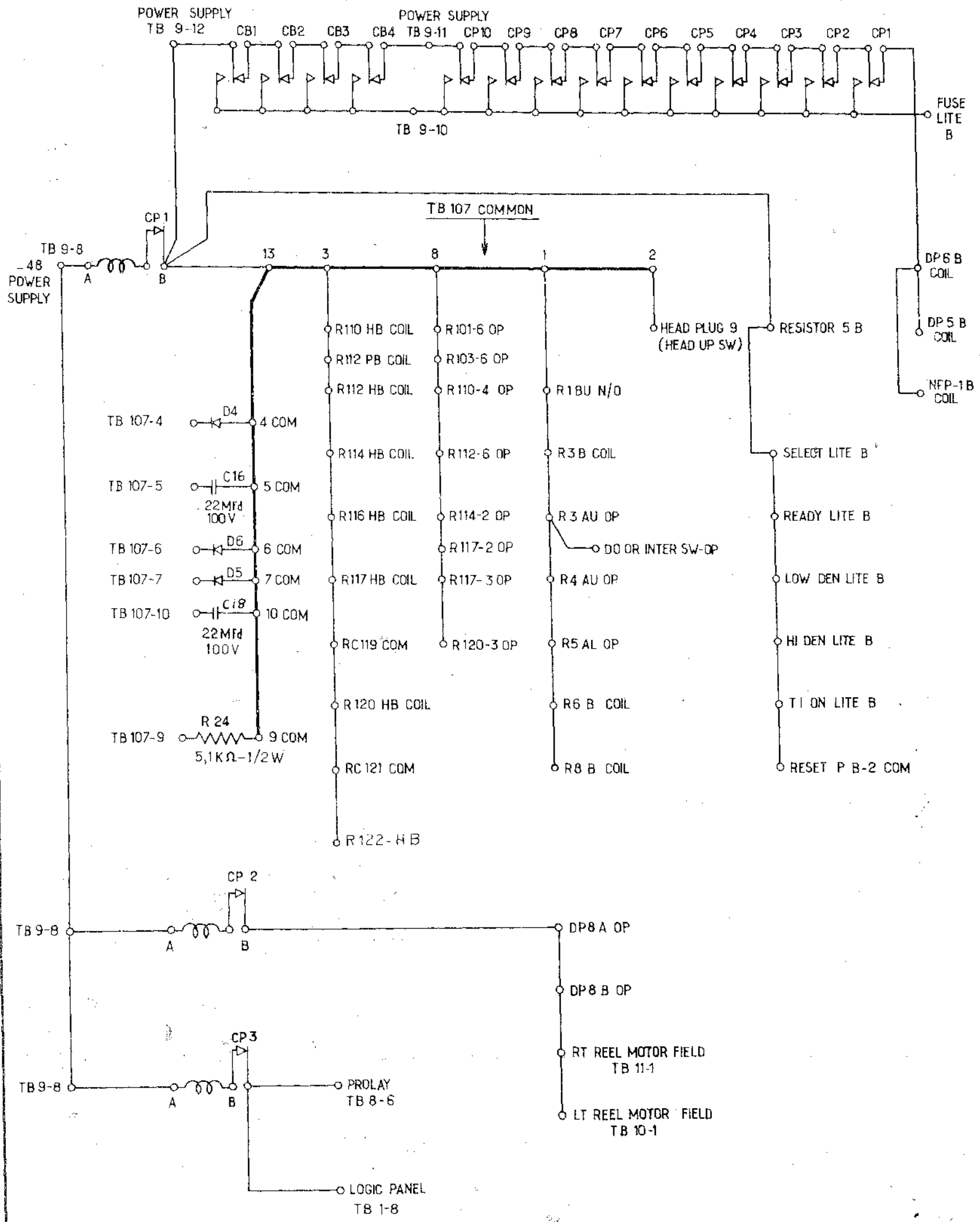
RA.40.65.1

5344816

5344817

RA.40.75.1

- 48. VOLT DISTRIBUTION



I B M				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			18.11.63	EC 253505					
	RA.40.75.1			23.4.64	EC 253782					
PROJET		TYPE		9-6-64	JT 85814					
DESSIN	RD27	2.3.64	ECHEL.							
VERIF.	P.D.a	3.3.64	CALQ.							
APPR.			VERIF.							

RA.40.75.1

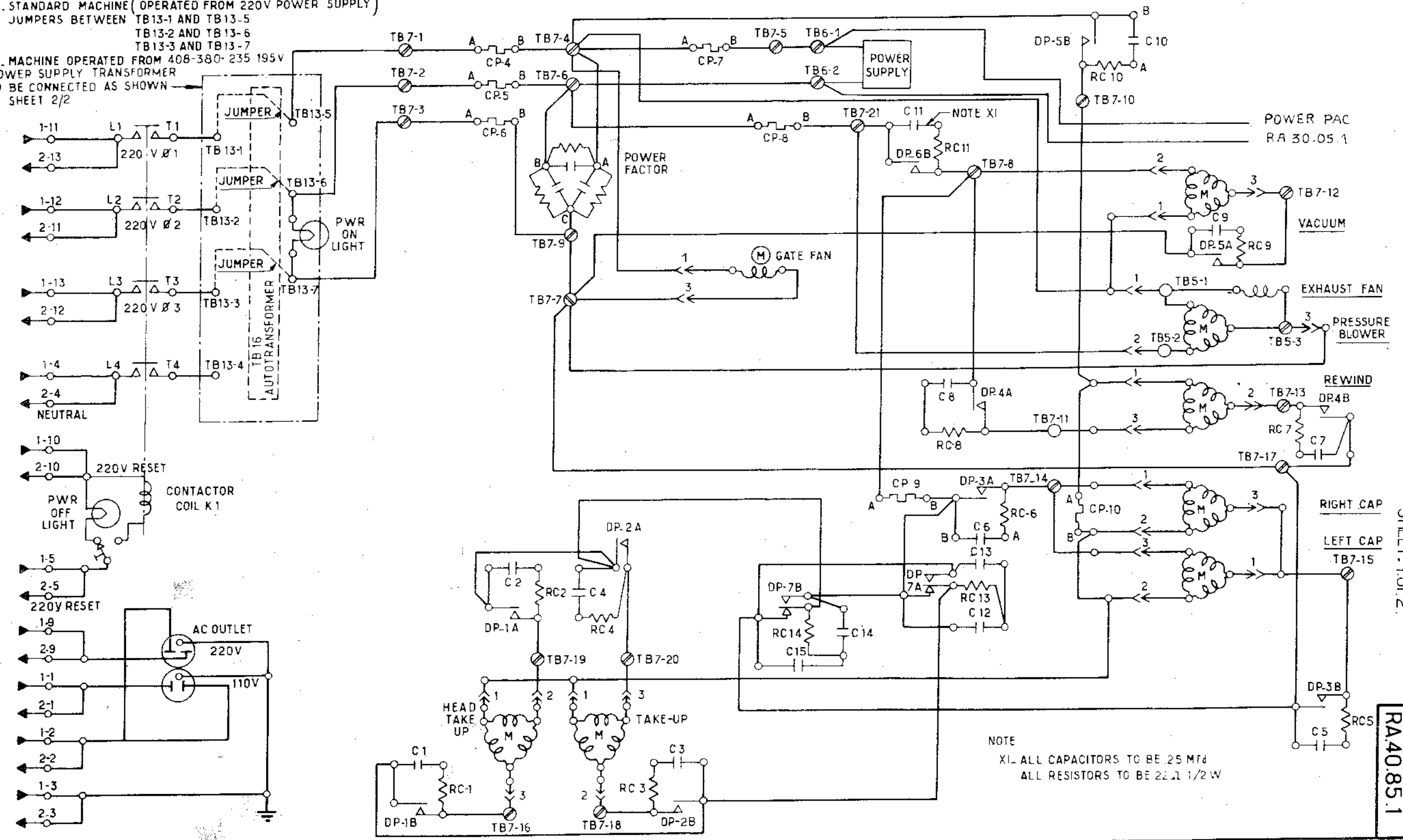
5344817

MOTOR CIRCUIT

NOTES.

I. STANDARD MACHINE (OPERATED FROM 220V POWER SUPPLY)
JUMPERS BETWEEN TB13-1 AND TB13-5
TB13-2 AND TB13-6
TB13-3 AND TB13-7

II. MACHINE OPERATED FROM 408-380-235 195V
POWER SUPPLY TRANSFORMER
TO BE CONNECTED AS SHOWN
IN SHEET 2/2

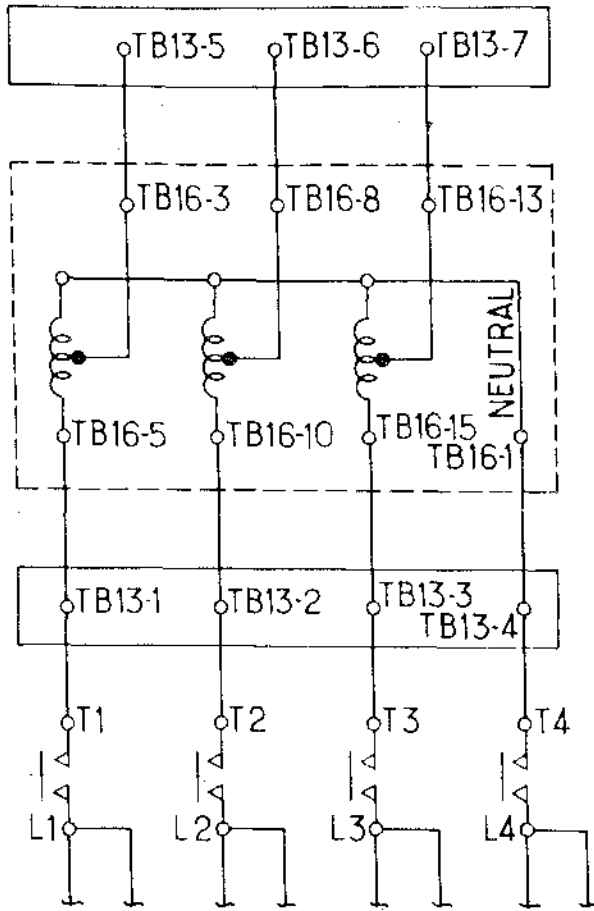


NOTE
XI. ALL CAPACITORS TO BE .25 MFd
ALL RESISTORS TO BE 22.1 1/2 W

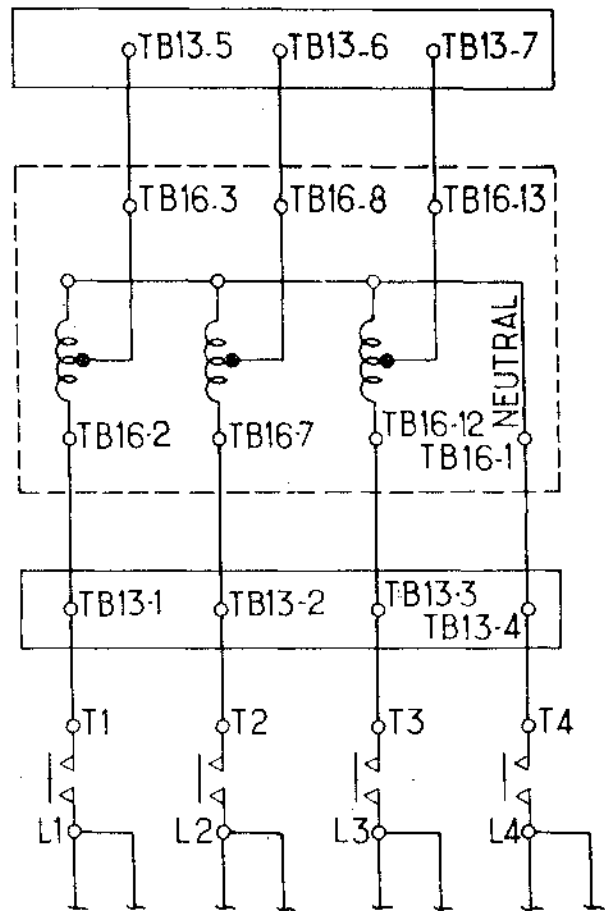
APPR.	DESIGN	VERIF.	NOM	DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
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	RD49	RD27	RA40-85.1							2085975

2085975

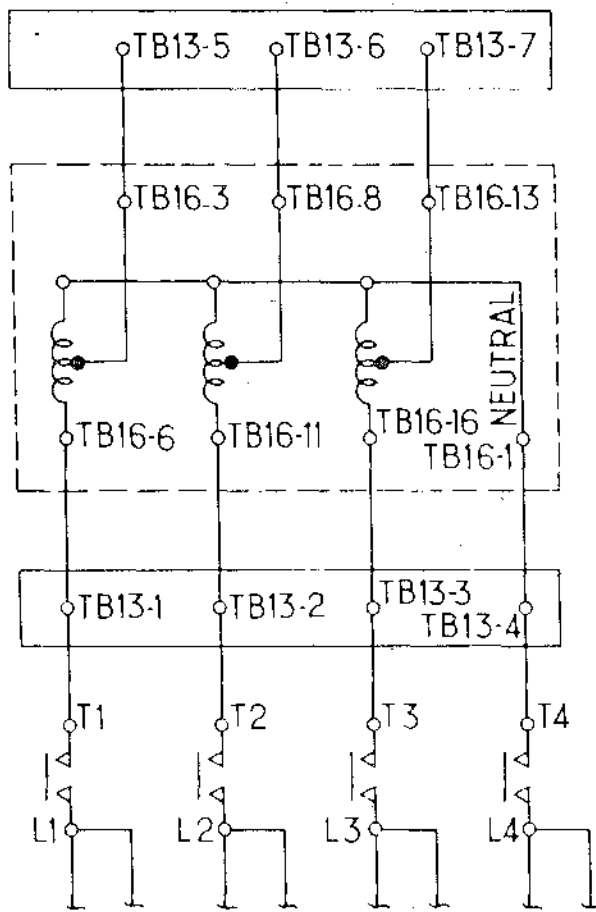
AUTOTRANSFORMER 380 TO 220V



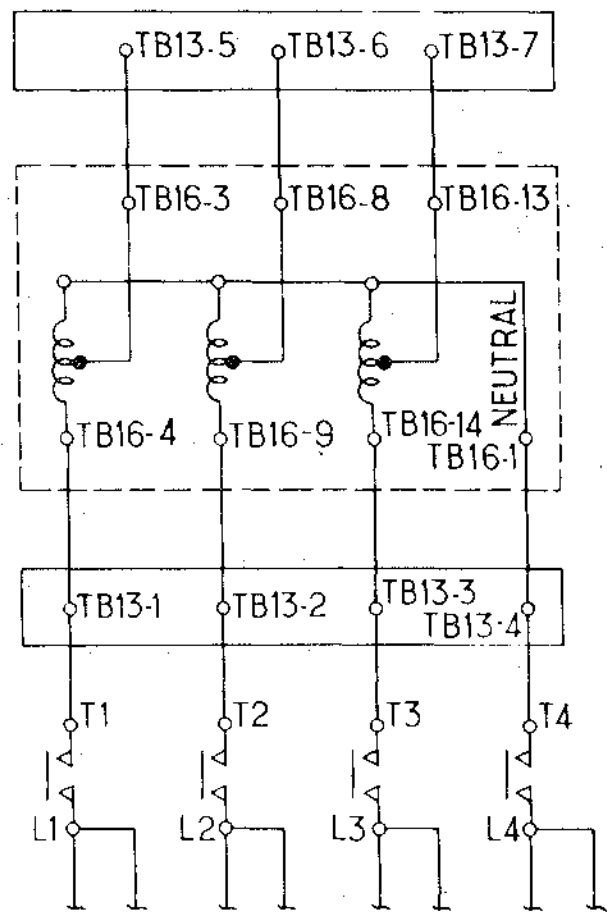
AUTOTRANSFORMER 195 TO 220V



AUTOTRANSFORMER 408 TO 220V



AUTOTRANSFORMER 235 TO 220V



IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			14.3.65	86720					
RA 40.85.1										
PROJET		TYPE								
DESSIN	RD49	16.2.65	ECHEL							
VERIF.	RD42	16.2.65	CALQ.							
APPR.			VERIF.							
										RA 40.85.1

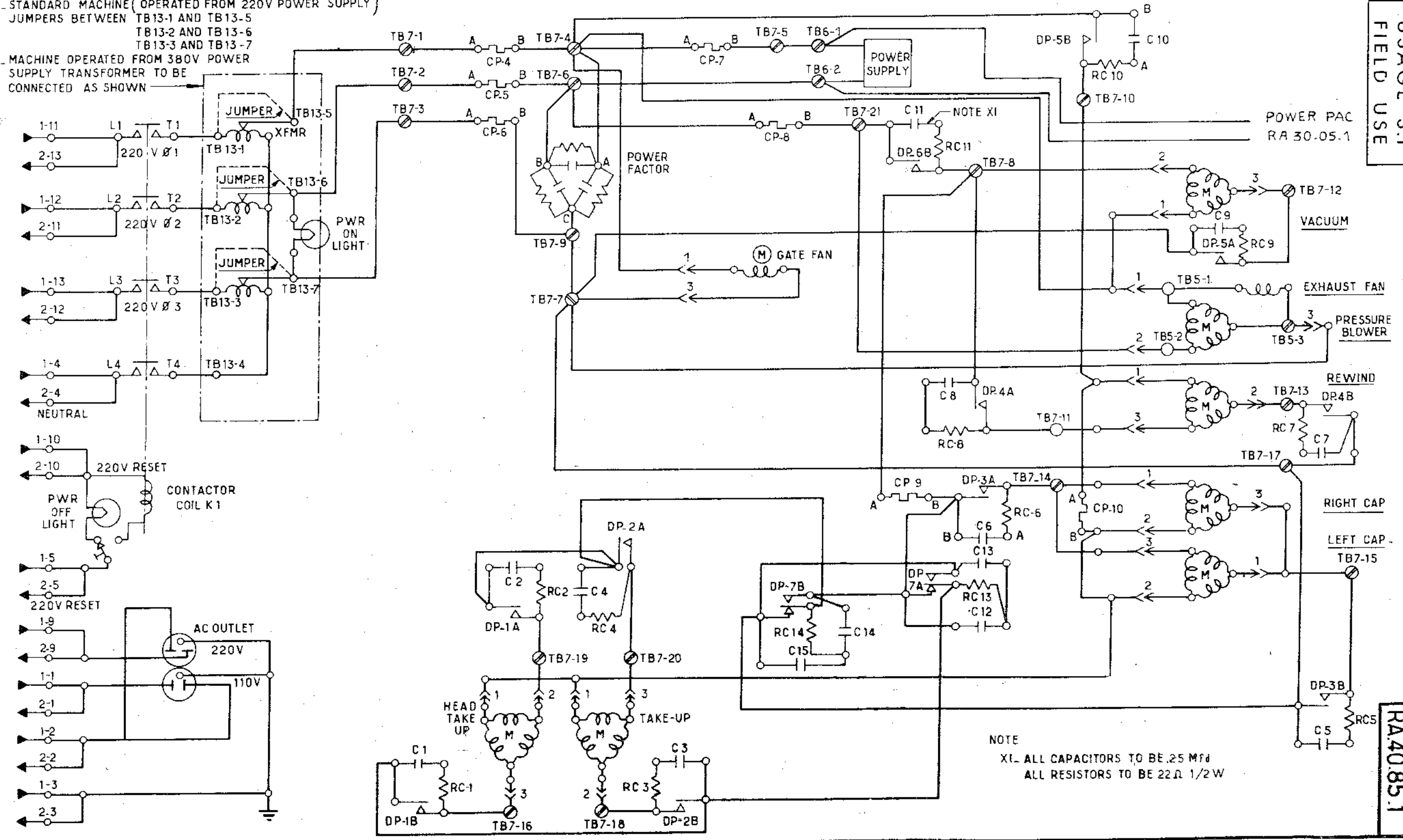
2085975

MOTOR CIRCUIT

NOTES.

I. STANDARD MACHINE (OPERATED FROM 220V POWER SUPPLY)
 JUMPERS BETWEEN TB13-1 AND TB13-5
 TB13-2 AND TB13-6
 TB13-3 AND TB13-7

II. MACHINE OPERATED FROM 380V POWER SUPPLY TRANSFORMER TO BE CONNECTED AS SHOWN



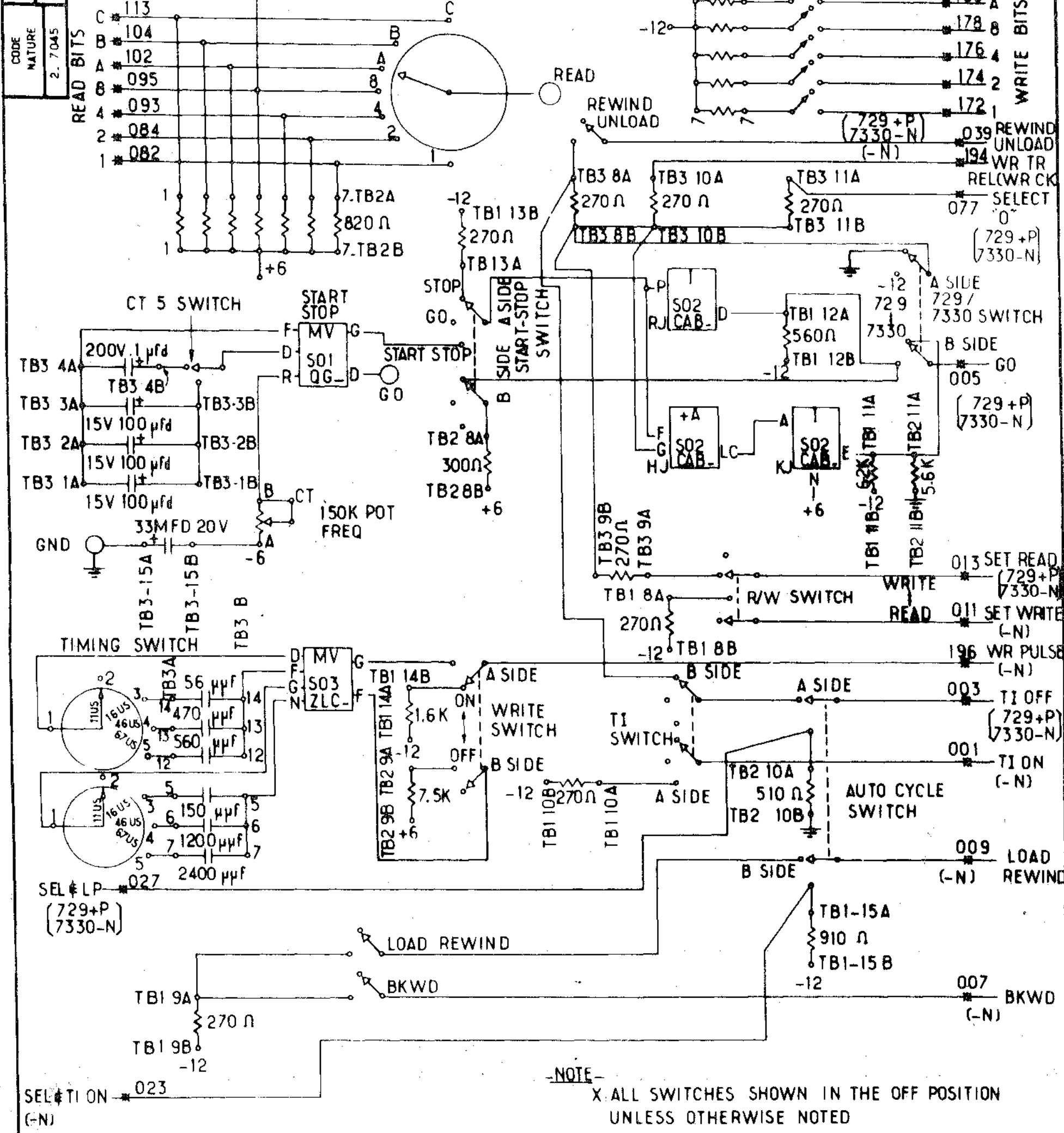
NOTE
 XI. ALL CAPACITORS TO BE .25 MFD
 ALL RESISTORS TO BE 22Ω 1/2W

APPR.		VERIF. RA40.85.1		DESIGN RA40.85.1		PROJECT RA40.85.1		NOM	
DATE		DATE		DATE		DATE		DATE	
18-11-63		18-11-63		18-11-63		18-11-63		18-11-63	
JT 85814		JT 85814		JT 85814		JT 85814		JT 85814	
EC 253505		EC 253505		EC 253505		EC 253505		EC 253505	
RA40.85.1		RA40.85.1		RA40.85.1		RA40.85.1		RA40.85.1	
8026488		8026488		8026488		8026488		8026488	

5344929

USAGE S.I FIELD USE

RA.85.10.0



-NOTE-
X ALL SWITCHES SHOWN IN THE OFF POSITION
UNLESS OTHERWISE NOTED

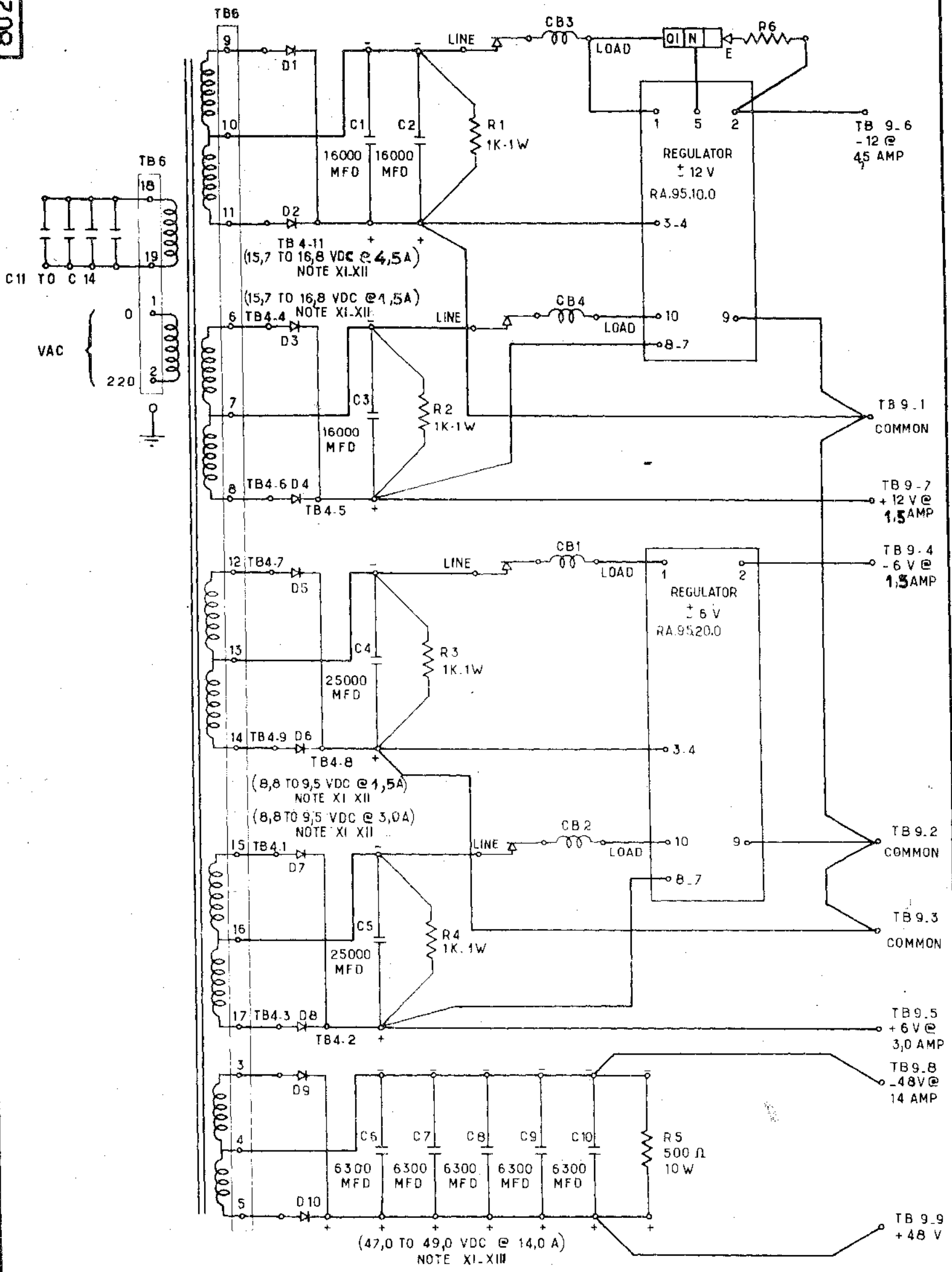
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	SYSTEMS DIAGRAM			21-10-63	253 503						
	RA.85.10.0			4-12-64	JT86963A						
PROJET		TYPE	729 / 7330								
DESSIN	RD48	13-11-64	ECHEL								
VERIF	R.21	13-11-64	CALQ								
APPR			VERIF								

RA.85.10.0

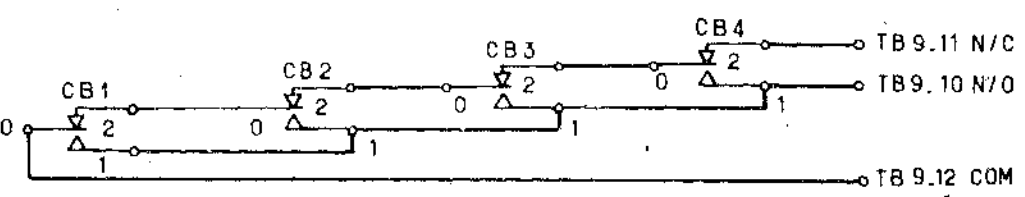
5344929

8023830

RA.95.00.0



SYMBOL	DESCRIPTION	PART NO	QTY
C4 - C5	25000MFD 12/15 VDC	2092 907	2
T1	TRANSFORMER	8023 976	1
D3 - D8	2 AMP DIODE	5323 537	6
D9 - D10	20 AMP DIODE	8019 354	2
C1 - C3	16000 MFD 25/30 VDC	2092 906	3
C6 - C10	6300 MFD 55/65 VDC	2092 920	5
CB3	5A DC	8023 834	1
CB1-CB4	2A DC	8021 667	2
R1 - R4	1KΩ - 1W RES	317 049	4
R5	500Ω - 10W RES	2078 043	1
C11, C14	18 MFD 300 VAC	8010 761	4
Q1	108 TR STR	369 214	1
R6	0.2Ω 5W	208 959	1
CB2	3ADC	2092 387	1
D1-D2	6AMP DIODE	8011021	2



NOTES -
 XI - BULK DC MEASURED ACROSS CAPACITORS
 XII - DC MUST MAINTEN THIS BAND FOR ± 10% SWING FROM NOMINAL AC INPUT AND LOAD CHANGE AS PER ENG SPEC 8023871
 XIII - REFER TO REGULATION TOL AS PER SPEC 8023871

SIMILAIRE A 5344871

IBM				DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM			10.10.63	EC25 3500					
RA.95.00.0				2.19.64	EC 253515					
PROJET		TYPE	729B	23.64	JT 85224					
DESSIN	B.45	28.2.64	ECH.EL.							
VERIF.	P.D.	3-3-64	CALQ.							
APPR.			VERIF.							

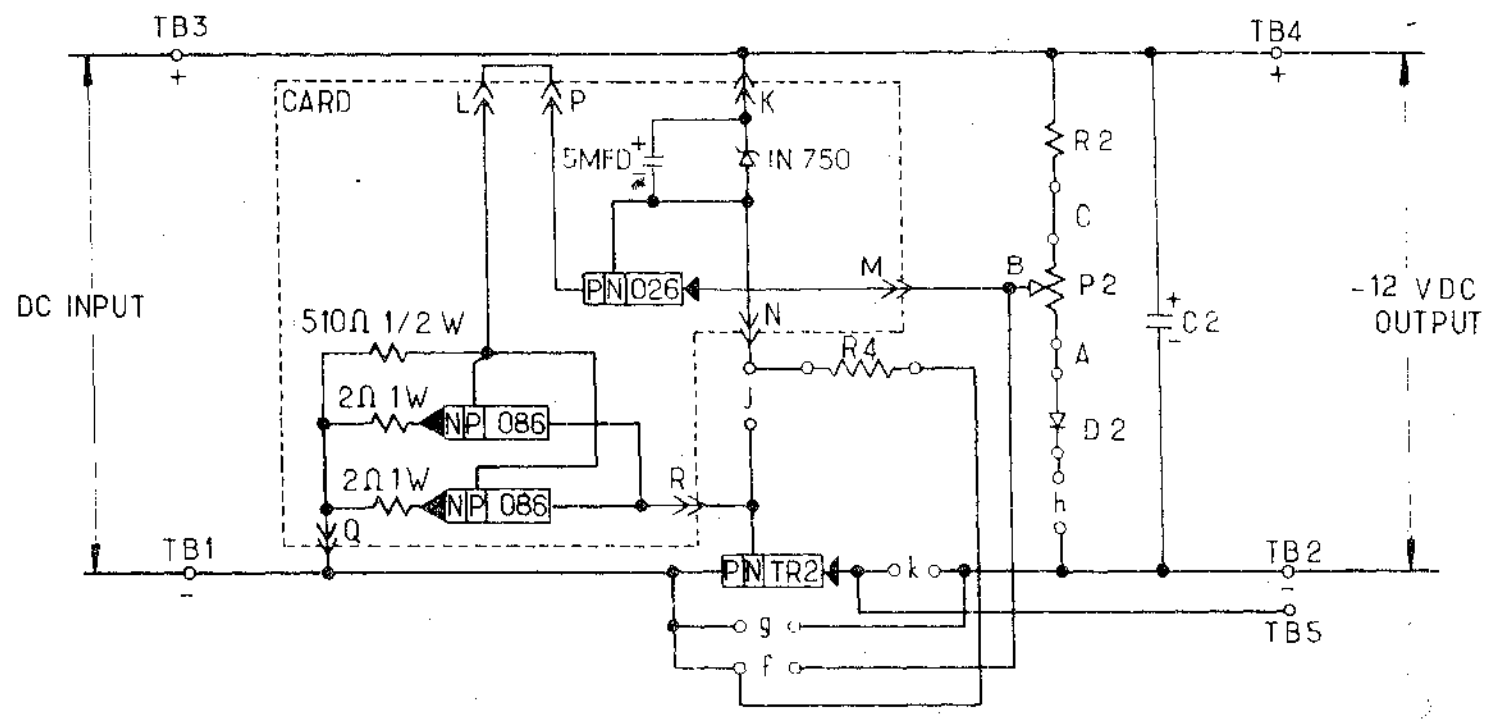
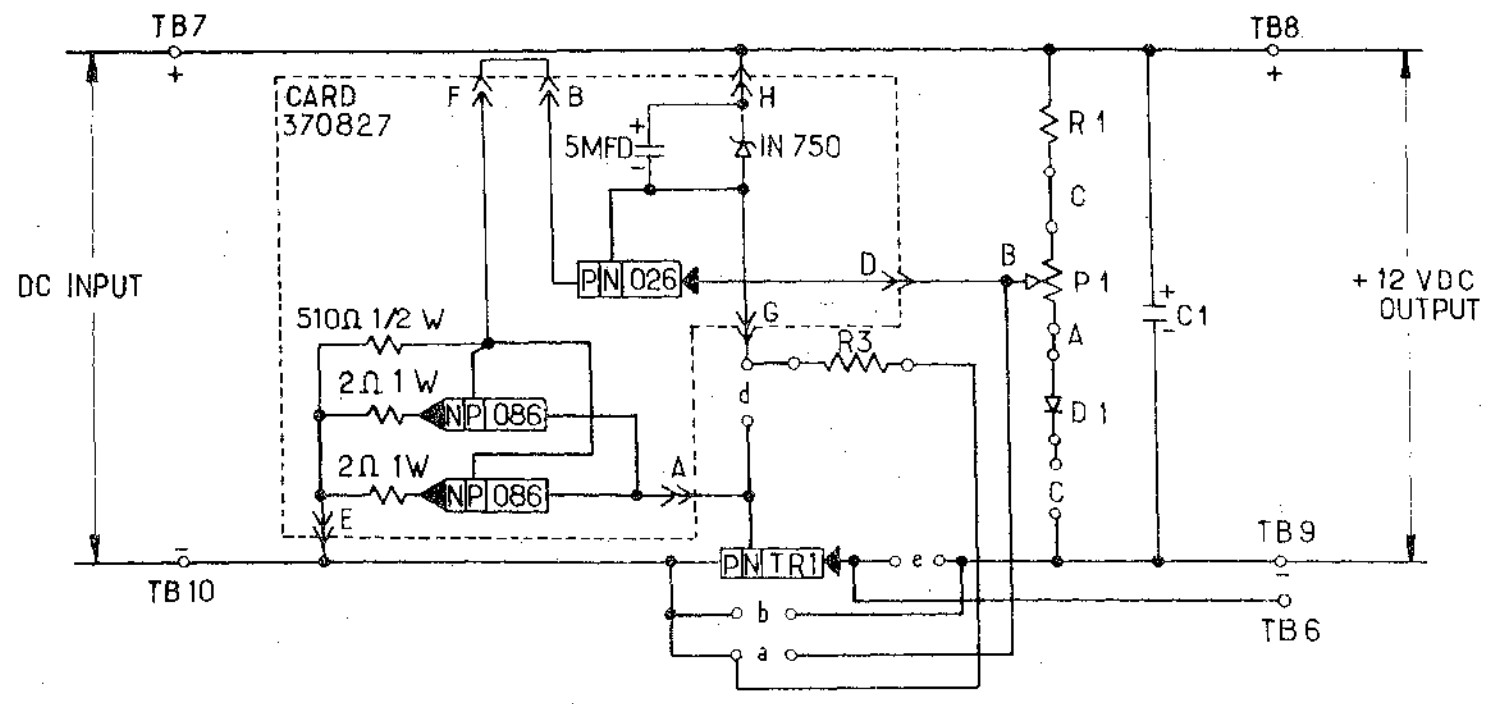
RA.95.00.0

8023830

5344884

RA.95.10.0

± 12 VDC REGULATOR



COMPONENT CHART			
SYMBOL	DESCRIPTION	PART NO	QTY
TR1, TR2	108 TRANSISTOR	369214	2
D1, D2	IN 537 DIODE	207398	2
P1, P2	25Ω 2W POT	2132014	2
C1, C2	250MF 50VDC CAPAC	2109462	2
R1, R2	30Ω 1W RESISTOR	509507	2

TO THE BASIC REGULATOR ASSEMBLY 342070 ADD THE COMPONENTS LISTED BELOW

FOR VOLTAGE LEVEL	+12 VDC		-12 VDC	
	COMPONENT	PART NO	COMPONENT	PART NO
TERMINALS	a	6.2KΩ 1/2W	f	6.2KΩ 1/2W
	b	100Ω 2W	g	100Ω 2W
	c	56Ω 2W	h	56Ω 2W
	d	510Ω 1W	j	510Ω 1W
	e	.1Ω 5W	k	.5Ω 5W
	R3/R4	a-d	3.9KΩ 1/2W	j-f
CARD SOCKET PINS	B-F	JUMPER	L-P	JUMPER

IBM		DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM	10-10-63	253500					
RA 95.10.0		23.3.64/1785224						
PROJET		TYPE	729B					
DESSIN		ECHEL.						
VERIF.		CALQ.						
APPR.		VERIF.						

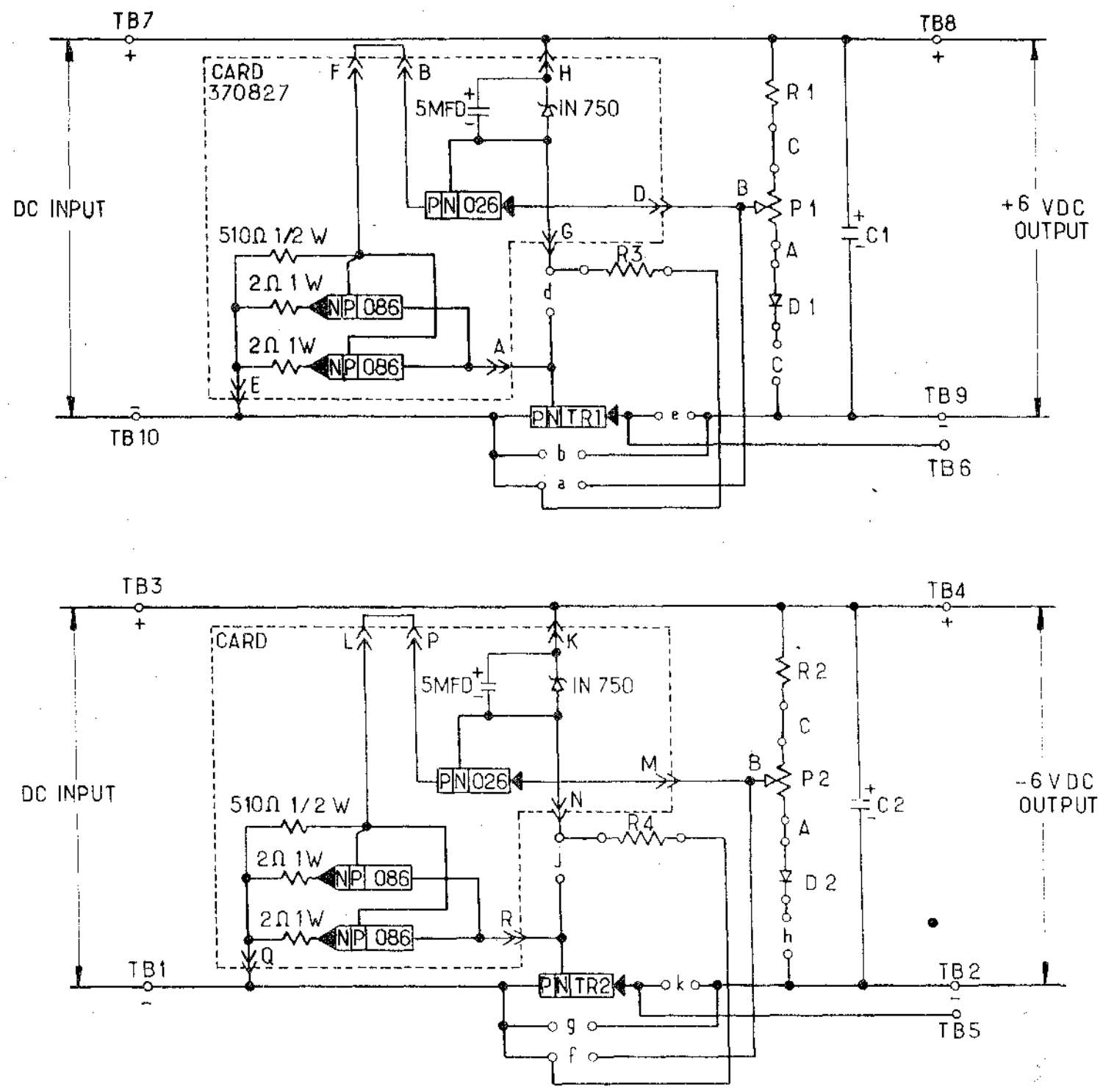
5344884

RA.95.10.0

5344883

RA95.200

± 6 VDC REGULATOR



COMPONENT CHART			
SYMBOL	DESCRIPTION	PART NO	QTY
TR1, TR2	108 TRANSISTOR	369214	2
D1, D2	IN 537 DIODE	207398	2
P1, P2	25Ω 2W POT	2132014	2
C1, C2	25MFD 50VDC CAPAC	2109462	2
R1, R2	30Ω 1W RESISTOR	509507	2

TO THE BASIC REGULATOR ASSEMBLY 342070 ADD THE COMPONENTS LISTED BELOW

FOR VOLTAGE LEVEL	+6VDC		-6VDC	
	COMPONENT	PART NO	COMPONENT	PART NO
TERMINALS	a 3KΩ 1/2W	323920	f 3KΩ 1/2W	323920
	b 75Ω 2W	216986	g 75Ω 2W	216986
	c JUMPER	337519	h JUMPER	337519
	d 220Ω 1/2W	317007	j 220Ω 1/2W	317007
	e 2Ω 5W	208959	k 1Ω 5W	207324
R3R4	a,d 2KΩ 1/2	317019	j,f 2KΩ 1/2	317019
CARD SOCKET PINS	B-F JUMPER	337530	L,P JUMPER	337530

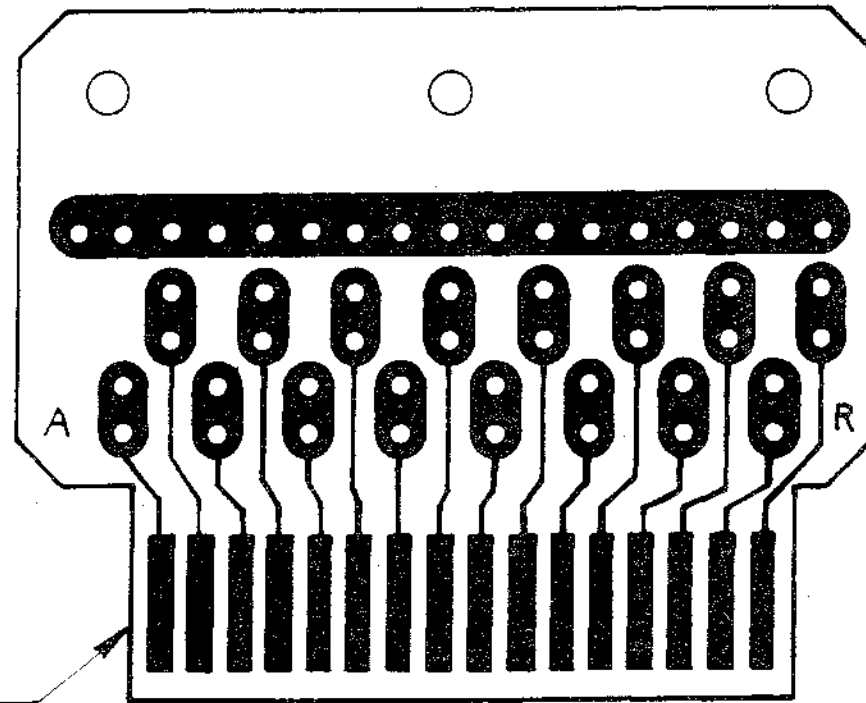
IBM			DATE	CHANGE N°	DATE	CHANGE N°	DATE	CHANGE N°	DEVELOPMENT N°
NOM	SYSTEMS DIAGRAM		10.10.63	253500					
	RA.95.20.0		23.3.64	1785224					
PROJET		TYPE 729B							
DESSIN		ECHEL.							
VERIF.		CALQ.							
APPR.		VERIF.							

RA95.20.0

5344883

MPR 0.0506.5

CODE NATURE	APPROBATION TECHNIQUE	SYMB	DATE	CHANG N°	APP TECH.	SYMB	DETS	CHANG N°	APP TECH.	
2-7500	ÉLEC		26-10-61	EC 250263						
PREMIÈRE UTILISAT	QTE	MÉTAL	29.1.62	JT 80823						
		PLASTIQUE	A1 22-11-62	JT 82860						
348602	2	FINITION								348542



LISTE DES COMMUNS		
DE-	A-	N°
A	B	491296
C	D	491296
E	K	347124
F	J	347124
G	L	347124
H	M	347124
N	P	491296
Q	R	491296

- 491349 - Circuit Imprimé
- A 491296 - Fil gauge 20 dénudé
- 347124 - Fil gauge 22 jaune

Notes X. Assemblé suivant spécif. 890470

XI. Marquer K24 et K26 sur la côté opposé

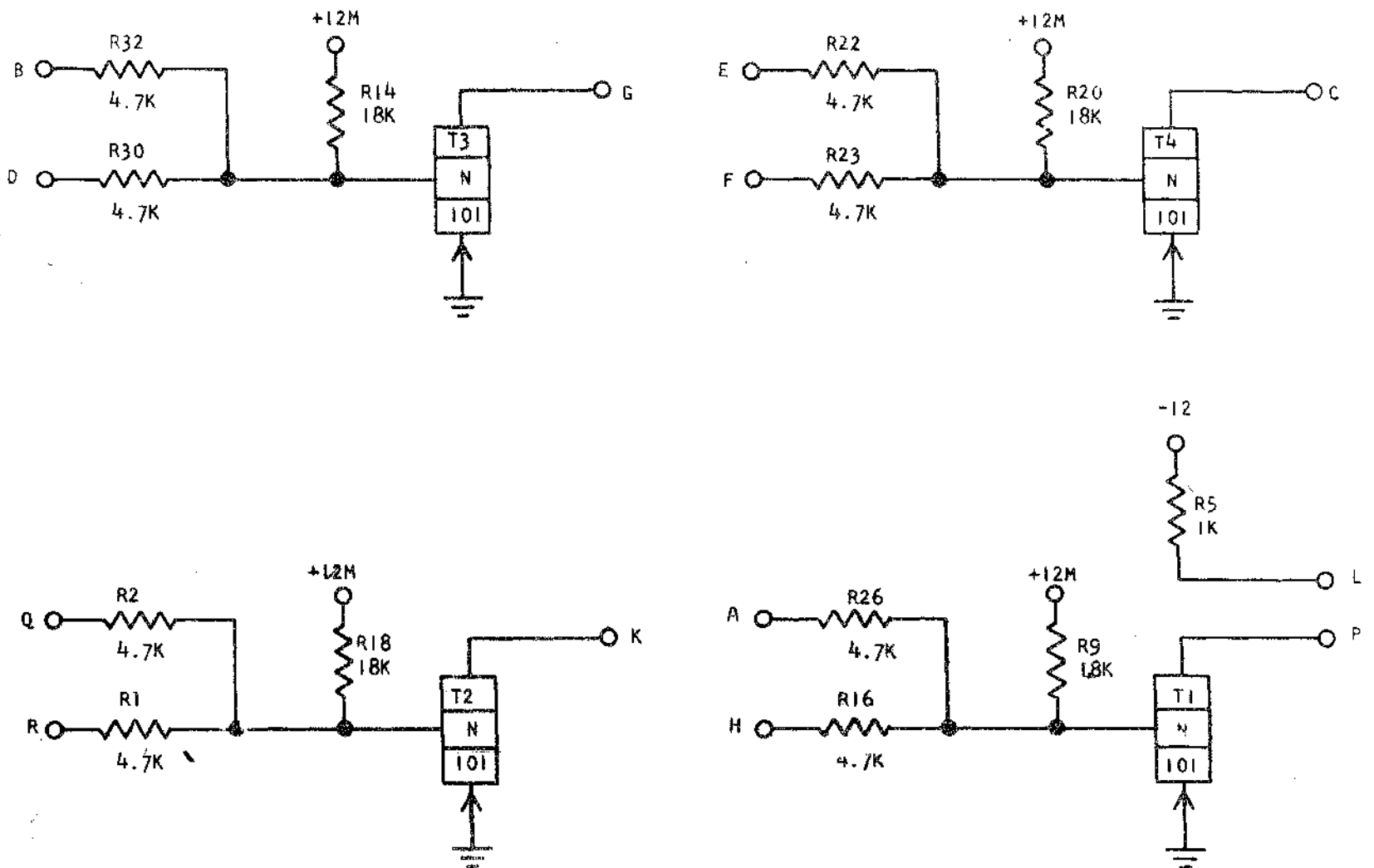
SPÉC. MATIÈRE N°		TOLERANCES GENERALES		CONFORME A CAHIER DES CHARGES		IBM			
PROF.CÉM.		DIMENSIONS ±		ALIGNÉ		NOM		ASS. CARTE	
DURETE		ANGLES ±		CONCENTRIQUE A DUA		PROJET		TYPE 729 AII, AIV	
				PLAN A		DESSIN		3.1.62	
				PARALLÈLE A DUA		VÉRIF		3.1.62	
				DROIT A		APPR			
				D'ÉQUERRE A DU A		VÉRIF			
348542		A		ARETES ET ANGLES ABATTUS		EXTÉR. MAX			
						INTÉR. MAX			

370084

SDTRL-INVERTER, 2 WAY, UNLOADED COLLECTORS

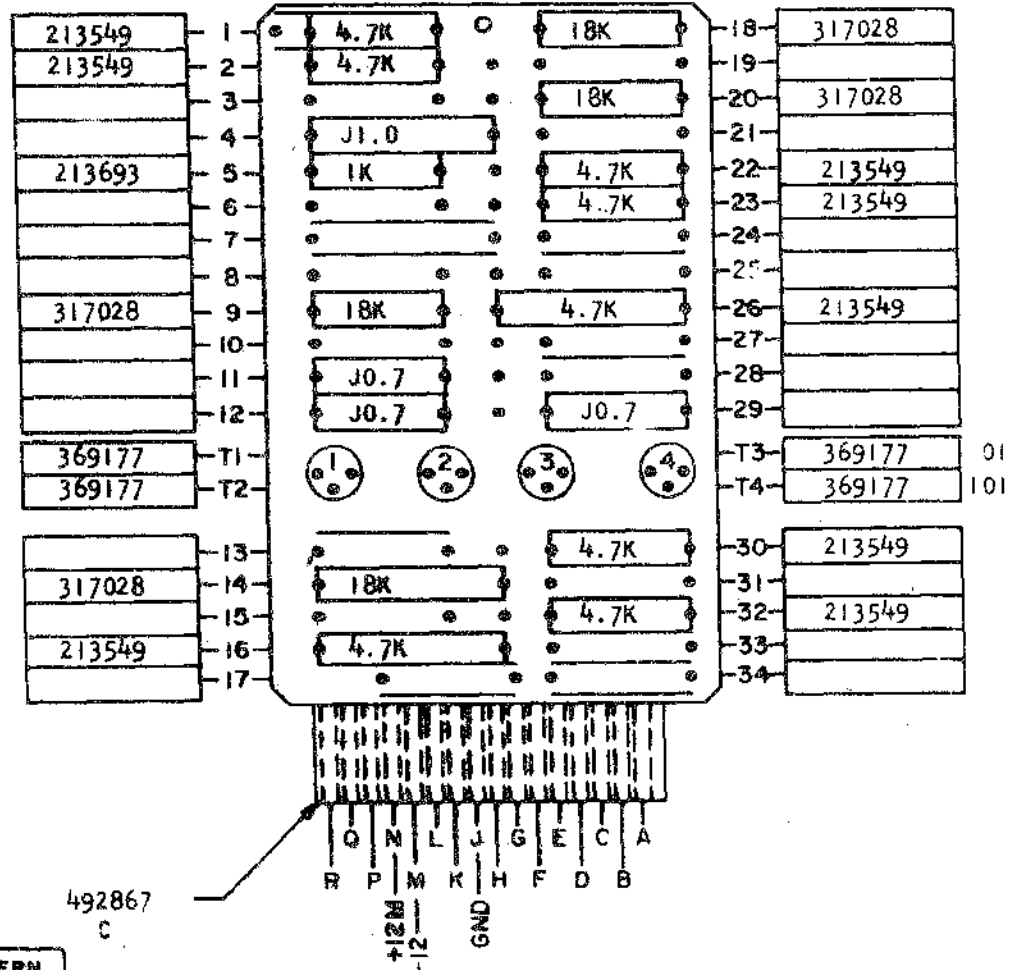
STANDARDS CODE
2-7045

370084
D A X -



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892366
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 895396 AND 891999
- XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
- XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
- XIV
- XV POSITIONS T1, T2, T3, T4, ARE TO-18 TRANSISTORS AND MAY BE MOUNTED IN .100 OR .200 PIN CIRCLE HOLES. USE TRANSISTOR SPACER 483070 FOR .200 PIN CIRCLE MOUNTING



B

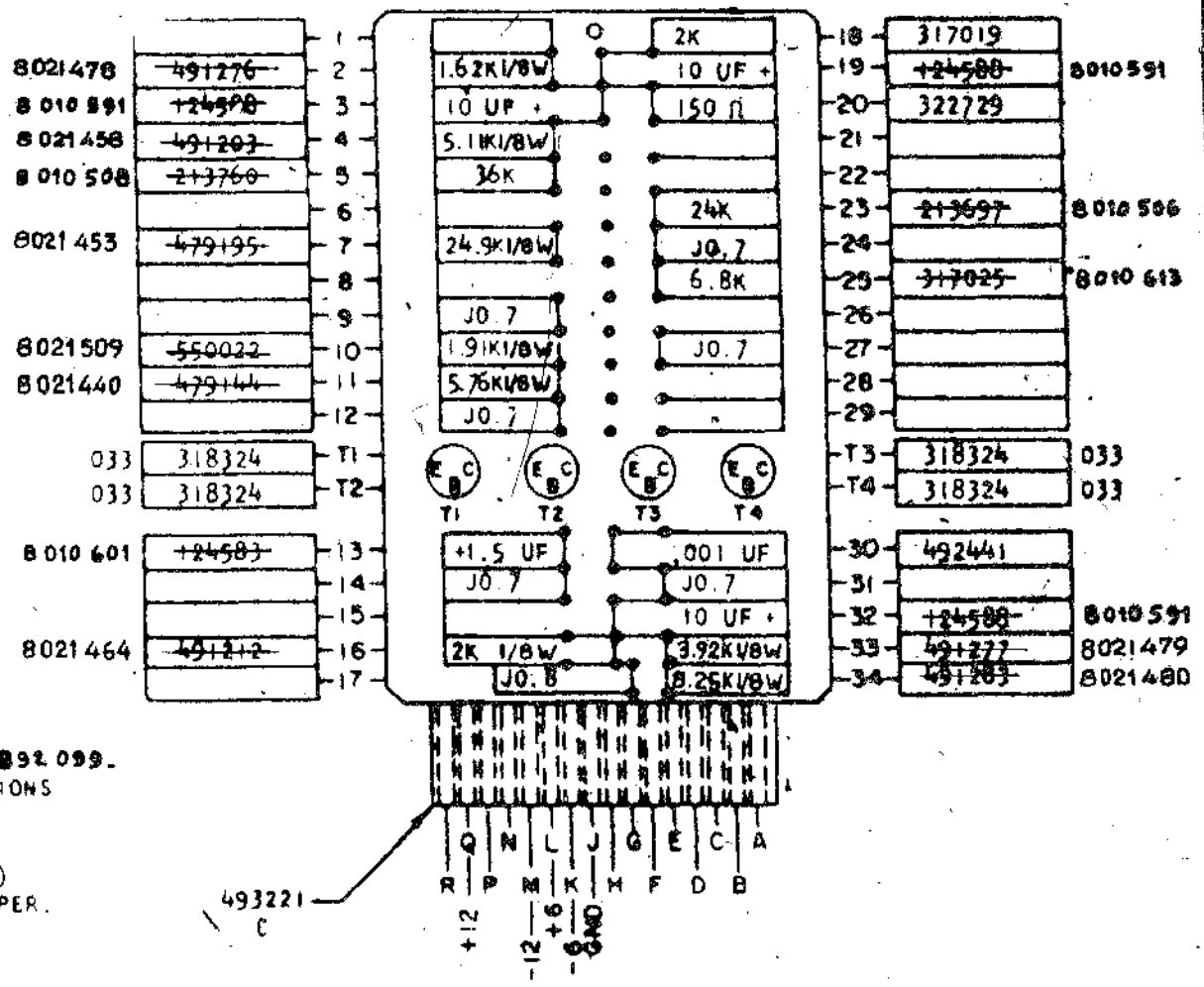
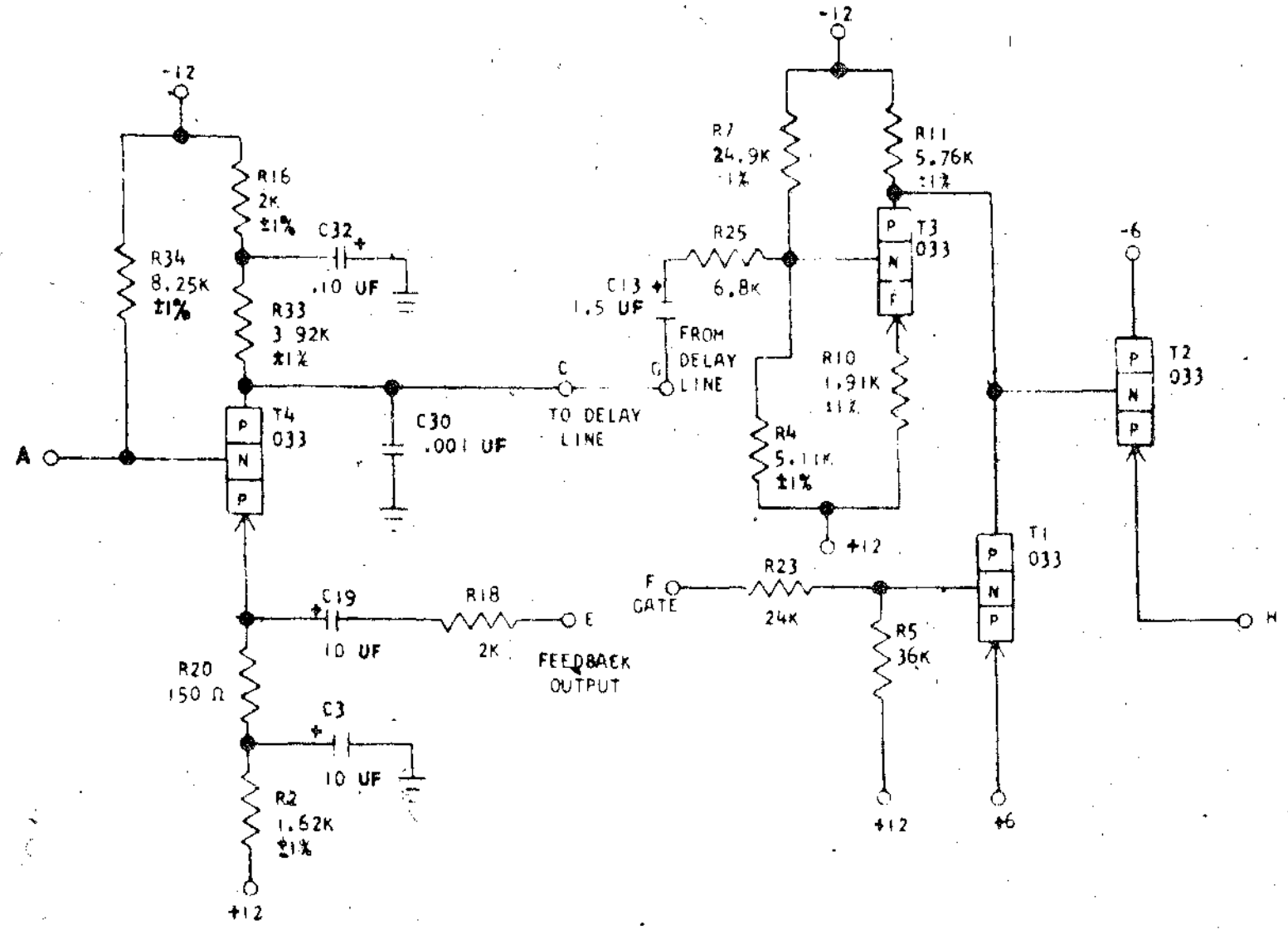
CIRCUIT AND PACKAGING STANDARD		APPROVAL		DATE		HOLE PATTERN		DATE		CHANGE NO.		APPROVAL		DATE		CHANGE NO.		APPROVAL		DEVELOPMENT NO.							
LIP		KMT		3-18-60		491329		3-3-61		111272		NOTE XV		5-25-61		112019		NOTE XV		2-1-64		D119692		FVL		2547-1024	
INTERNATIONAL BUSINESS MACHINES CORP		NAME		CARD ASM TSTR-SDTRL INVERTER, 2 WAY, UNLOADED COLLECTORS		DATE		3-3-61		111272		NOTE XV		5-25-61		112019		NOTE XV		2-1-64		D119692		FVL		2547-1024	
DESIGN		GHS		3-17-60		MODEL		SMS		3-3-61		111272		NOTE XV		5-25-61		112019		NOTE XV		2-1-64		D119692		FVL	
DETAIL		GHS		3-17-60		SCALE		NONE		5-25-61		112019		NOTE XV		5-25-61		112019		NOTE XV		2-1-64		D119692		FVL	
CHECK		PPH		3-18-60		DRAW		LIG 3-19-62		5-23-62		113942		NOTE XIV		5-23-62		113942		NOTE XIV		2-1-64		D119692		FVL	
APPRO		BES		5-4-60		CHECK				11-7-62		114364		MDL		11-7-62		114364		MDL		2-1-64		D119692		FVL	

370099
ACX-

370099

ALLOY - PREAMP NUMBER 4 MAGNETIC TAPE

CODE
NATURE
2-7045



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892 099.
 - XI ASSMBLE TO ENGINEERING SPECIFICATIONS 2004692 - 2093495 AND 2093496
 - XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED (AS NOTE IX)
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER. 491296
 - XIV
 - XV ALL ±1% RESISTORS ARE 1/8 WATT

COMPONENT SIDE

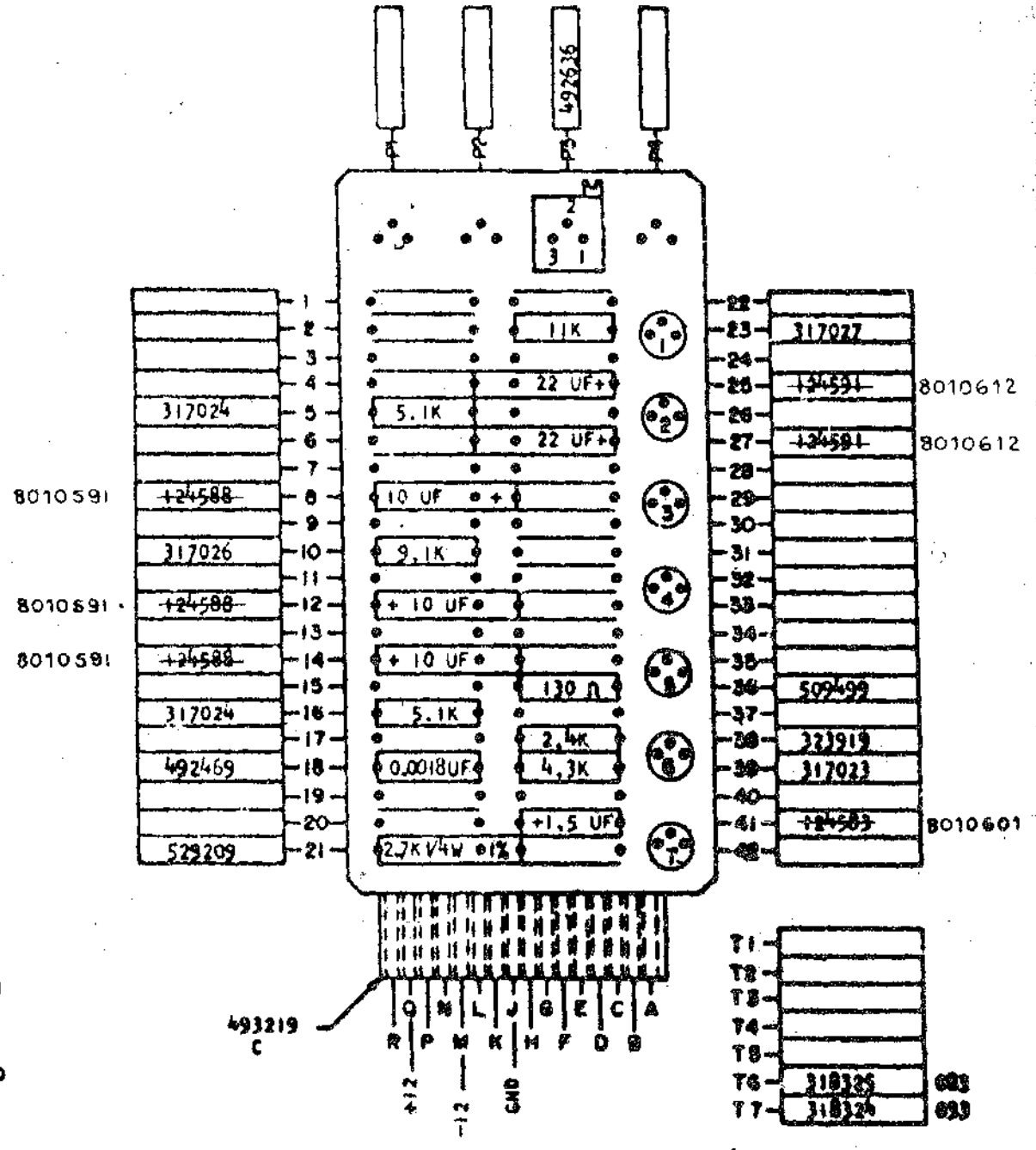
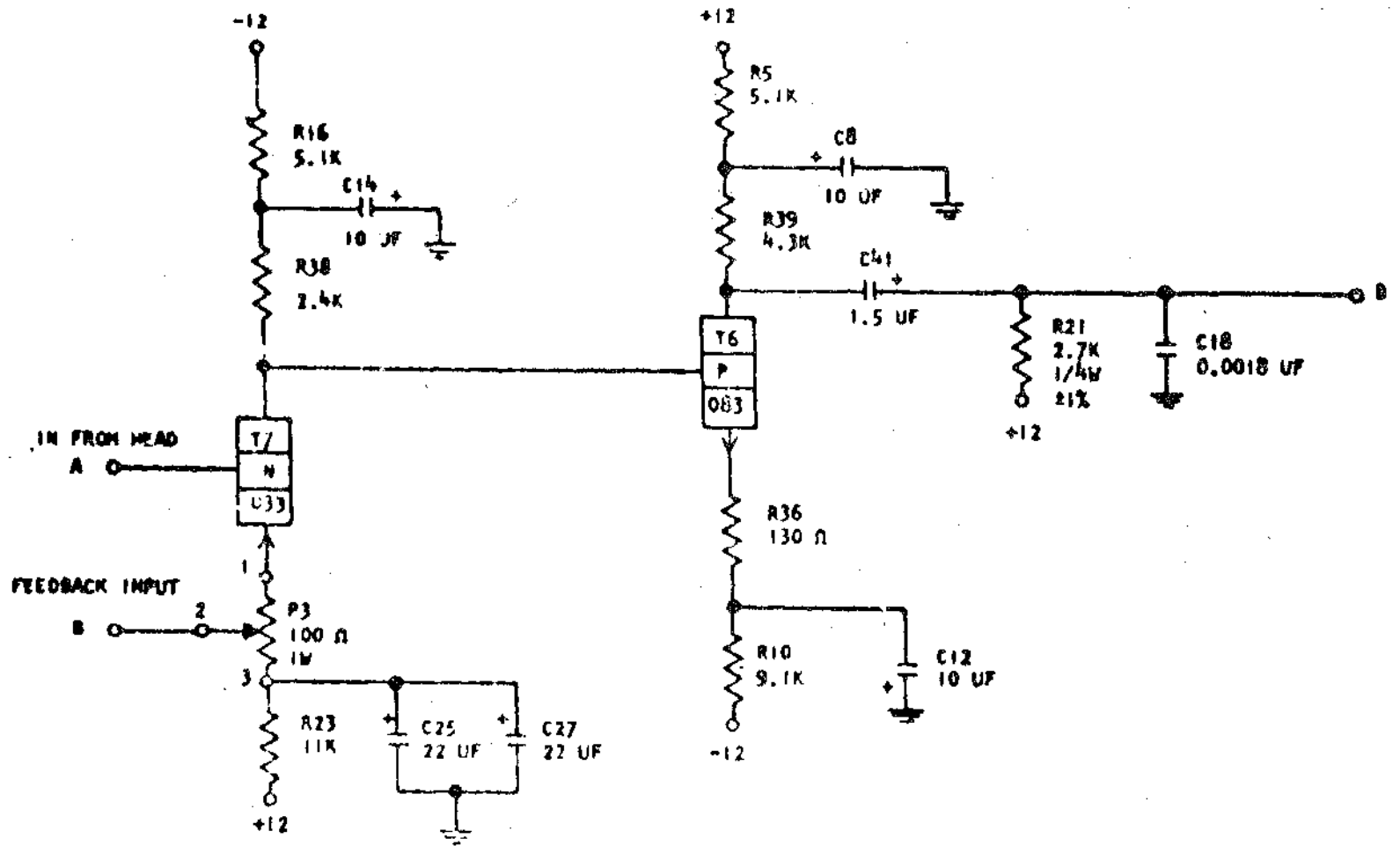
USE WITH SPECIFICATION 8010800

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR ALLOY			27.5.60	EC 109175				
	PREAMP NUMBER 4 MAGNETIC TAPE			9.12.60	JT 47009				
PROJET		TYPE	SMS	23.3.61	EC 111378				
DESSIN		ECHEL		20.6.61	JT 48929				
VERIF		CALQ		20.11.61	JT 80851				
APPR		VERIF	CLM 73.6.61						

370099

ALLOY-PRE AMP NUMBER 3, MAGNETIC TAPE

370100
CODE
NATURE
2.7.045
A C W



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892099
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093486 AND 2093486
 - III ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED
 - IV POTENTIOMETER 492636 MUST NOT BE SUBJECTED TO ANY LIQUIDS

HOLE PATTERN 493474 USE WITH SPECIFICATION 8010600

IBM	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NON	27-5-60	EC-109175	1-11-61	EC-112432				
CARD ASM TSTR-ALLOY-PREAMP NO.3, MAGNETIC TAPE	9-12-60	JT-47009	14-3-62	JT-80889				
DESIGN	5-11-62	EC-111578	6-8-62	EC-114712				
VERIF.		JT-48930	27 NOV. 1962	JT-82868				
APPR.		JT-80876						

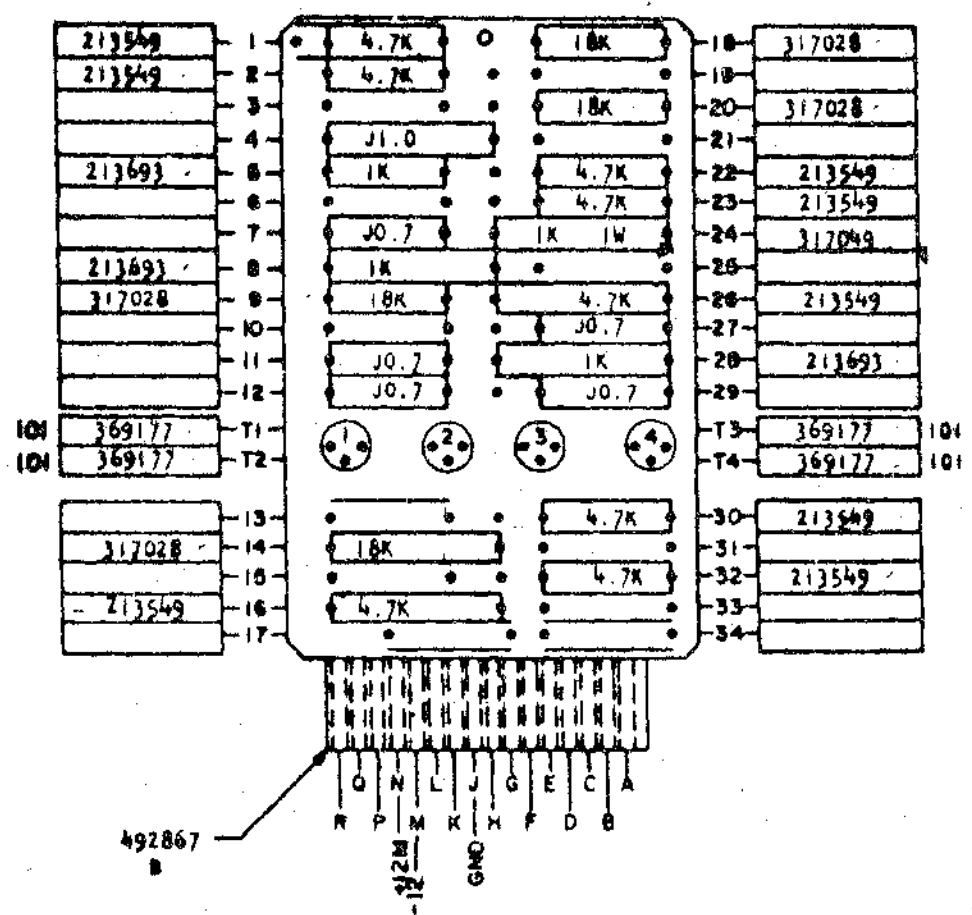
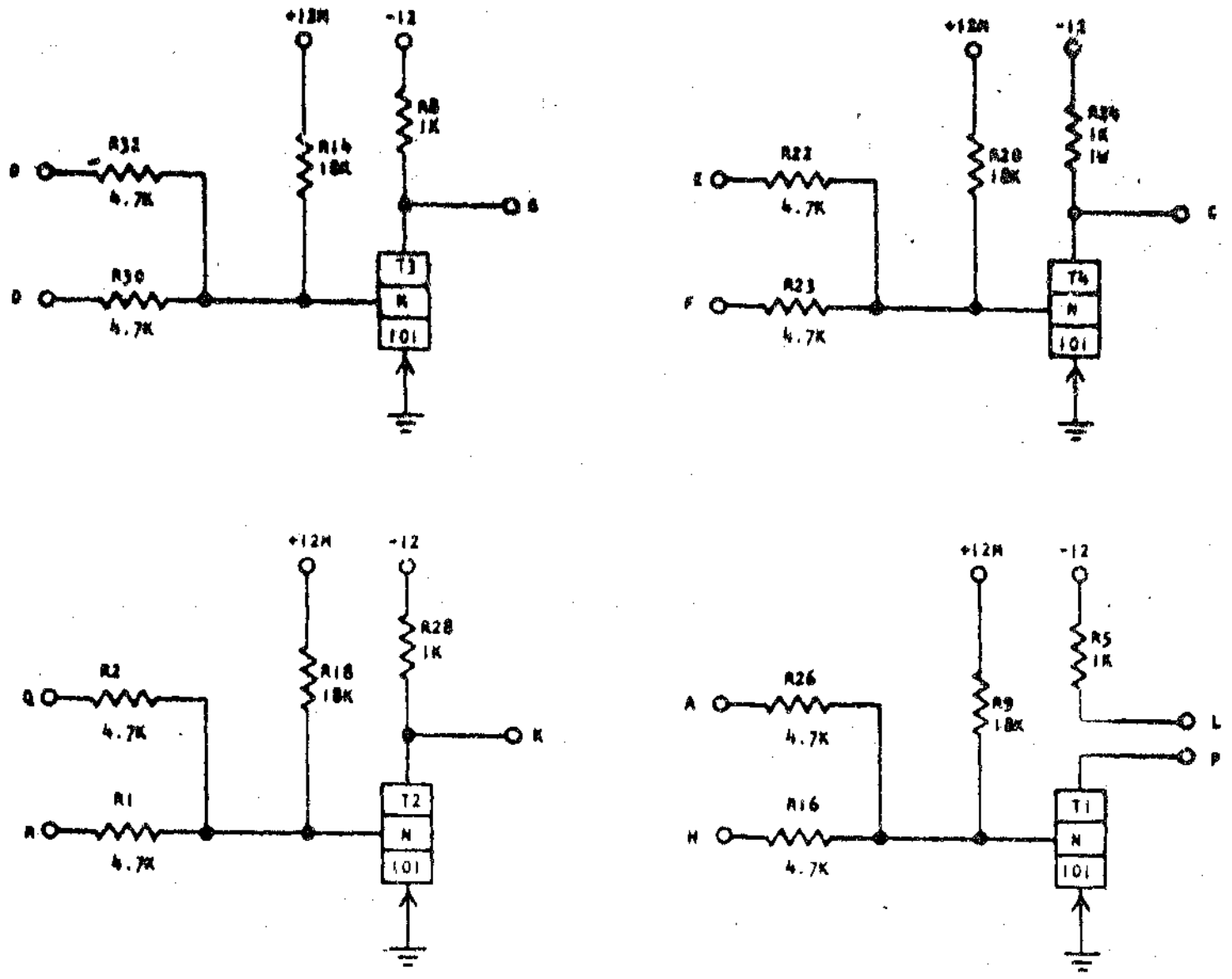
370100

370129
TAU-

CODE
NATURE
2.7045

SDTRL-2 WAY INVERTER NUMBER 2

370129



- NOTES**
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892366
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 - 2093495 AND 2093496
 - III ALL RESISTORS ARE 1/2 WATT AND 25% UNLESS OTHERWISE NOTED
 - III "J" IN BLOCK DENOTES BARE WIRE JUMPER 491288
 - IV
 - V POSITIONS T1, T2, T3, T4, ARE TO-18 TRANSISTORS AND MAY BE MOUNTED IN .100 OR .300 PIN CIRCLE HOLES. USE TRANSISTOR SPACER 483070 FOR .200 PIN CIRCLE MOUNTING.

HOLE PATTERN 491329

USE WITH SPECIFICATION 8070000

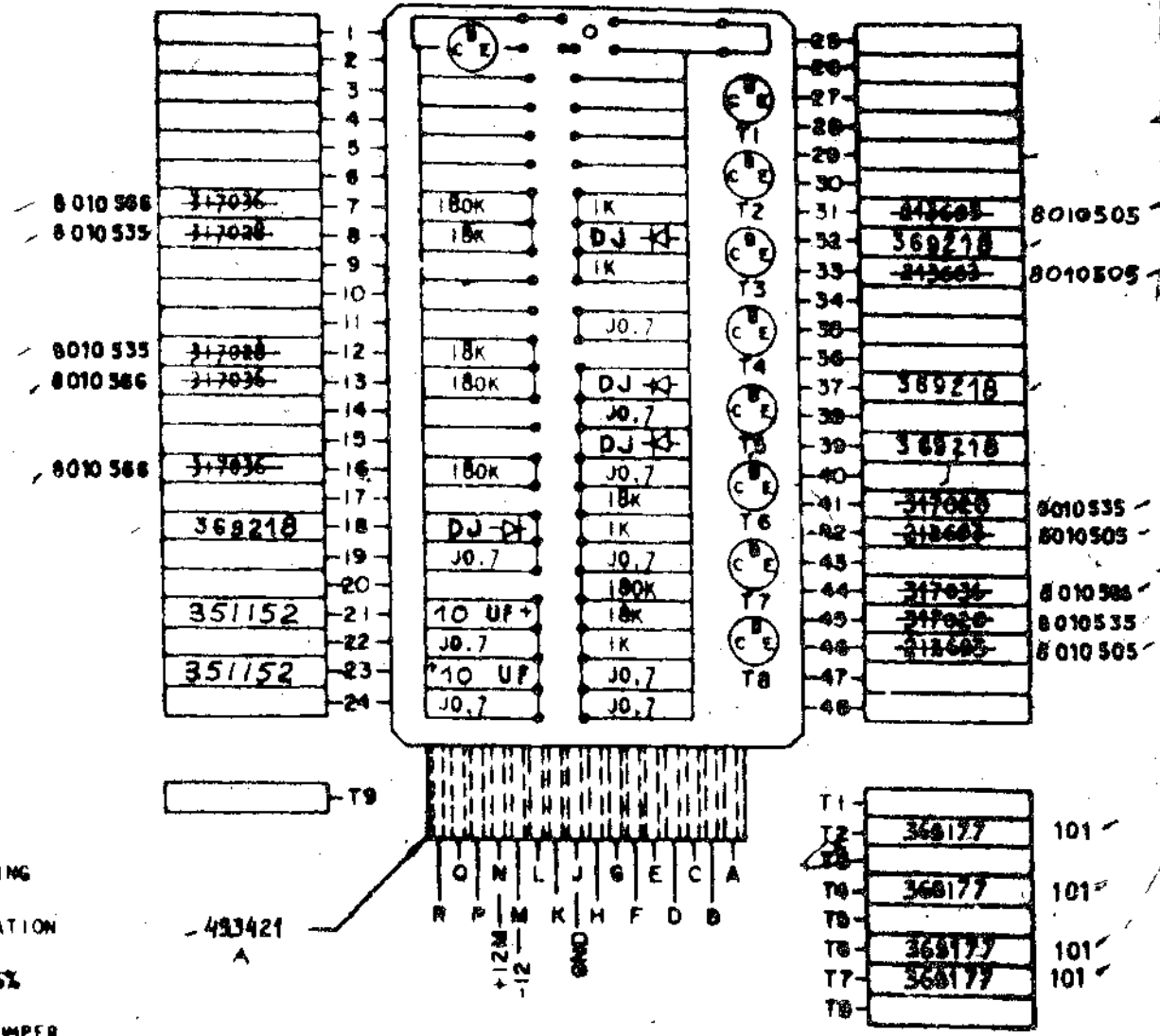
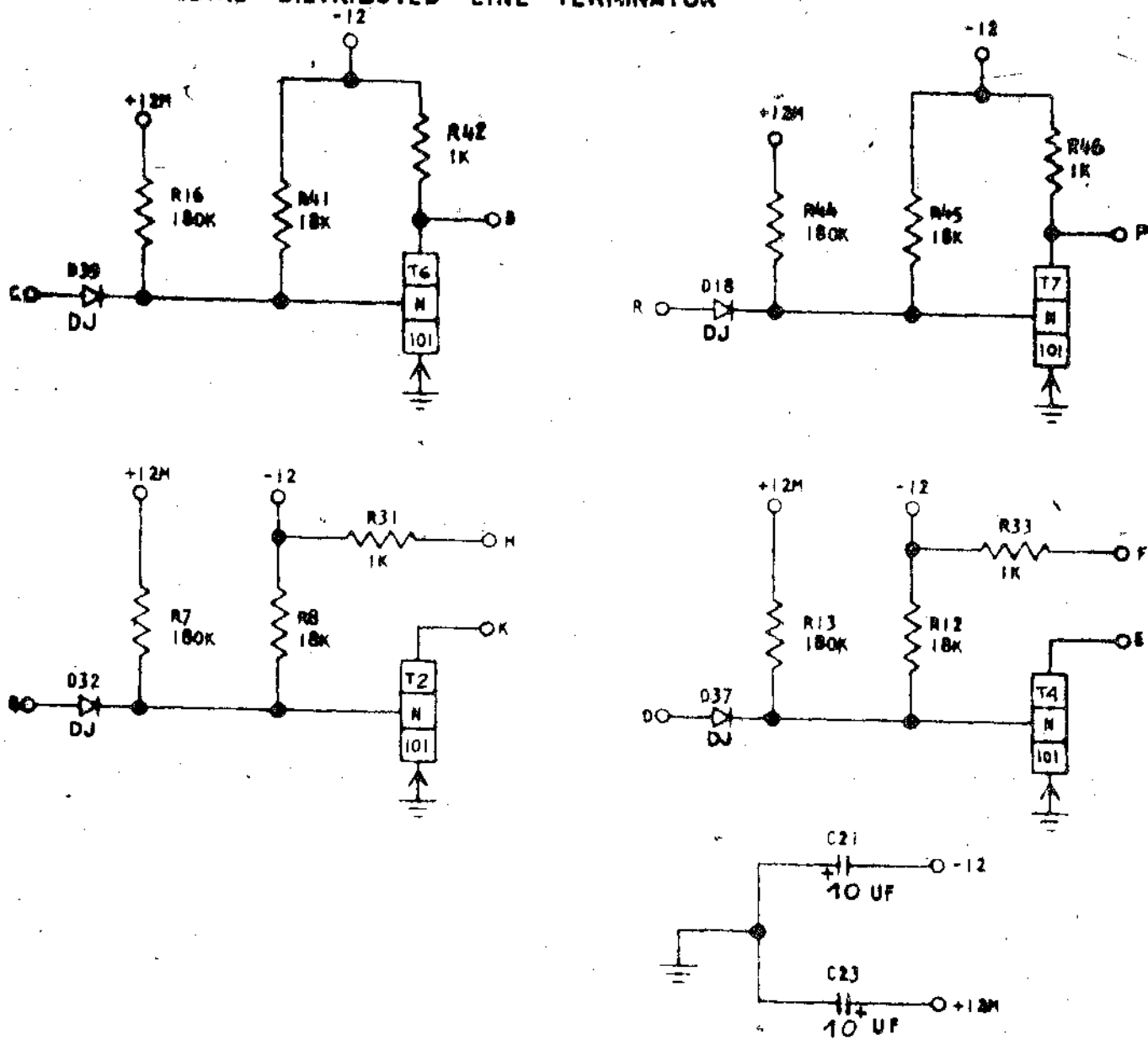
IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR - SDTRL - 2WAY INVERTER NUMBER 2		25.8.60	EC 109 878	25.5.62	EC 113 942		
PROJET		TYPE	6.2.61	JT47042	20.8.62	JT 82 891		
DESIGN	TE	4.9-67	25.5.61	EC 112019	28.8.62	EC 114264		
VERIF		CALQ	9.10.61	JT48828	9 JAN. 1963	JT 82759		
APPR		VERIF						

370129

370333
 CODE NATURE
 2-7045
 TCJ-

SDTRL - DISTRIBUTED LINE TERMINATOR

370333



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 092333.
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084892, 2093498 AND 2093498
 - III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
 - IV "M" IN BLOCK DENOTES BARE WIRE AMPER, 494296
 - V
 - VI
 - VII
 - VIII
 - IX
 - X
 - XI
 - XII
 - XIII
 - XIV
 - XV
 - XVI POSITIONS T2, T4, T6, T7, ARE TO-18 TRANSISTORS AND MAY BE MOUNTED IN .100 OR .200 PIN CIRCLE HOLES USE TRANSISTOR SPACER 483070 FOR .200 PIN CIRCLE MOUNTING

USE WITH SPECIFICATION 8010800 HOLE PATTERN 493457

IBM	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NON CARD ASM TSTR SDTRL	20-11-60	EC 110170	20-1-62	JT 80876	23-5-62	EC 418942	20-11-61	JT 84681
DISTRIBUTED LINE TERMINATOR	2-4-61	JT 47015	29-11-61	EC 112774	20-8-62	JT 82895		
PROJECT		TYPE SMS	25-5-61	ECT 12019	23-2-62	JT 80881	8-10-62	JT 82846
DESIGN Dwg	13-61	REVL	9-10-61	UT 48828	7-6-62	JT 81851	20-8-62	EC 110170
DATE		CALC	20-12-61	JT 80872				JT 80753

370333

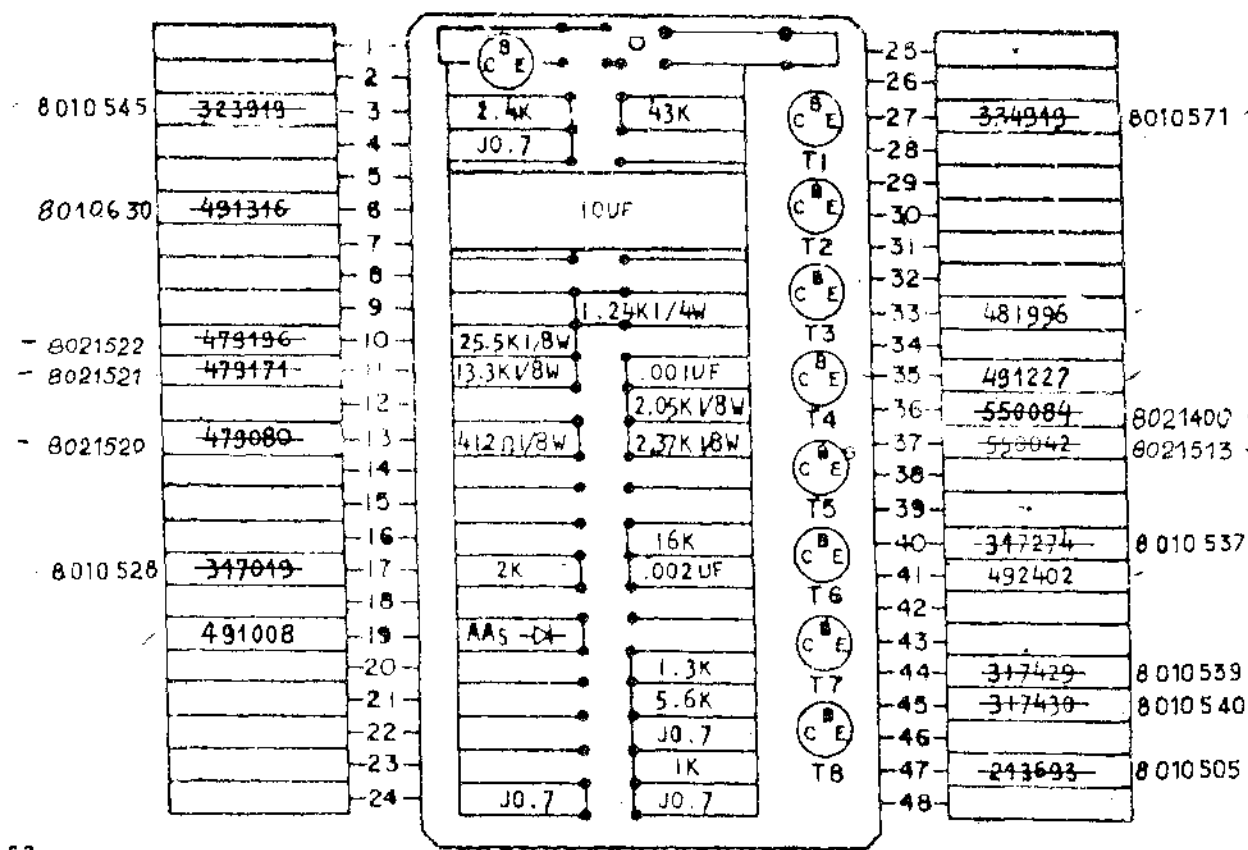
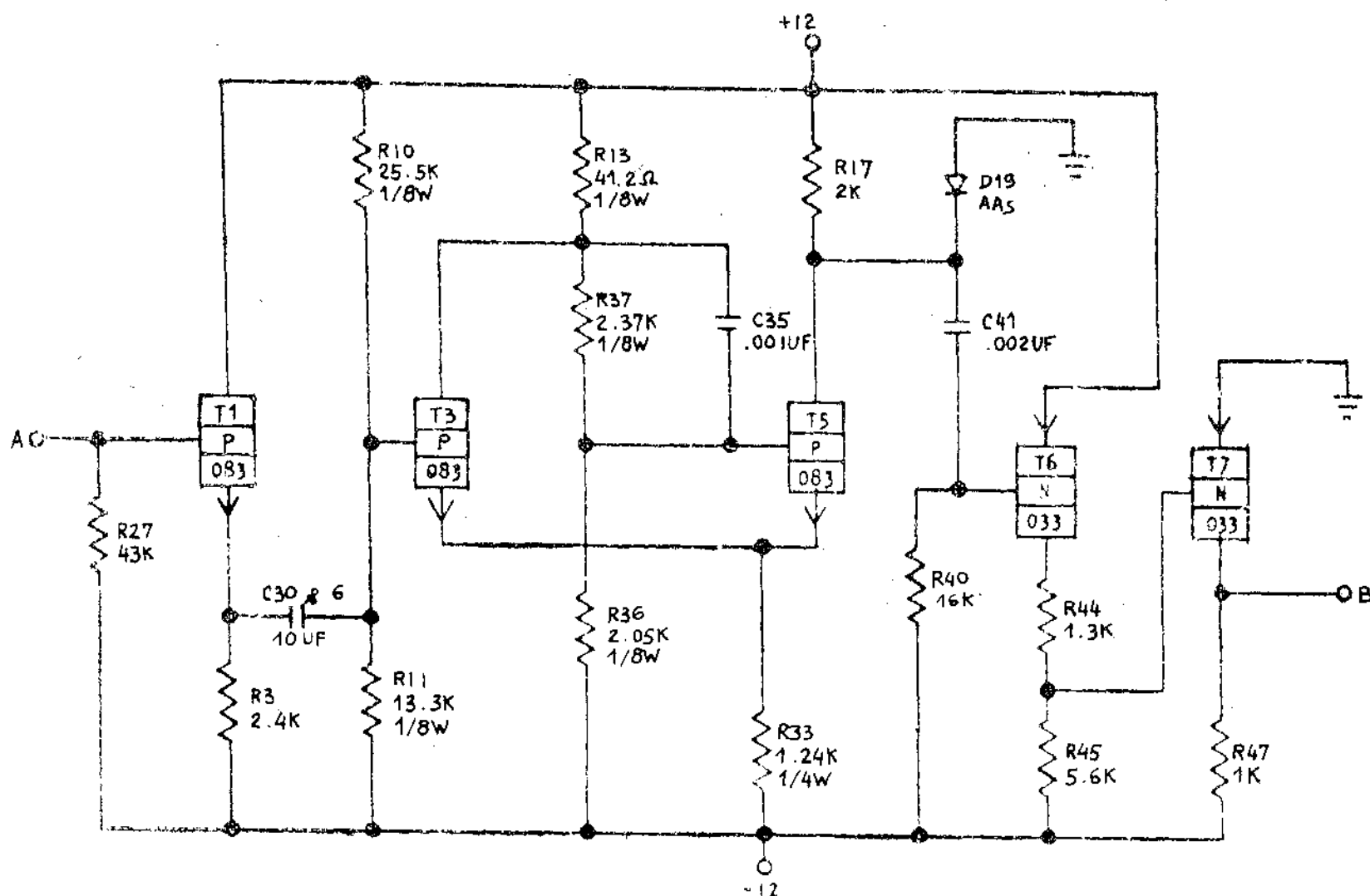
370452

YAW-

CODE NATURE 2.7.45

A.C. PHOTO FIER

370452



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892452
 - XI ASSEMBLY TO ENGINEERING SPECIFICATION 2084692-2093495 AND 2093496
 - XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED (AS NOTES XIV, XV)
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
 - XIV ALL 1/8 WATT RESISTORS ±1%
 - XV ALL 1/4 WATT RESISTORS ±1%

COMPONENT SIDE

USE WITH SPECIFICATION 8010600

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR.A.C.PHOTO	31.1.61	EC 111068						
	AMPLIFIER	9.6.61	JT47019						
PROJET		20.11.61	JT80851						
DESSIN	De 6.6.61 ETHEL	29.1.62	JT80851						
VERIF									

570452

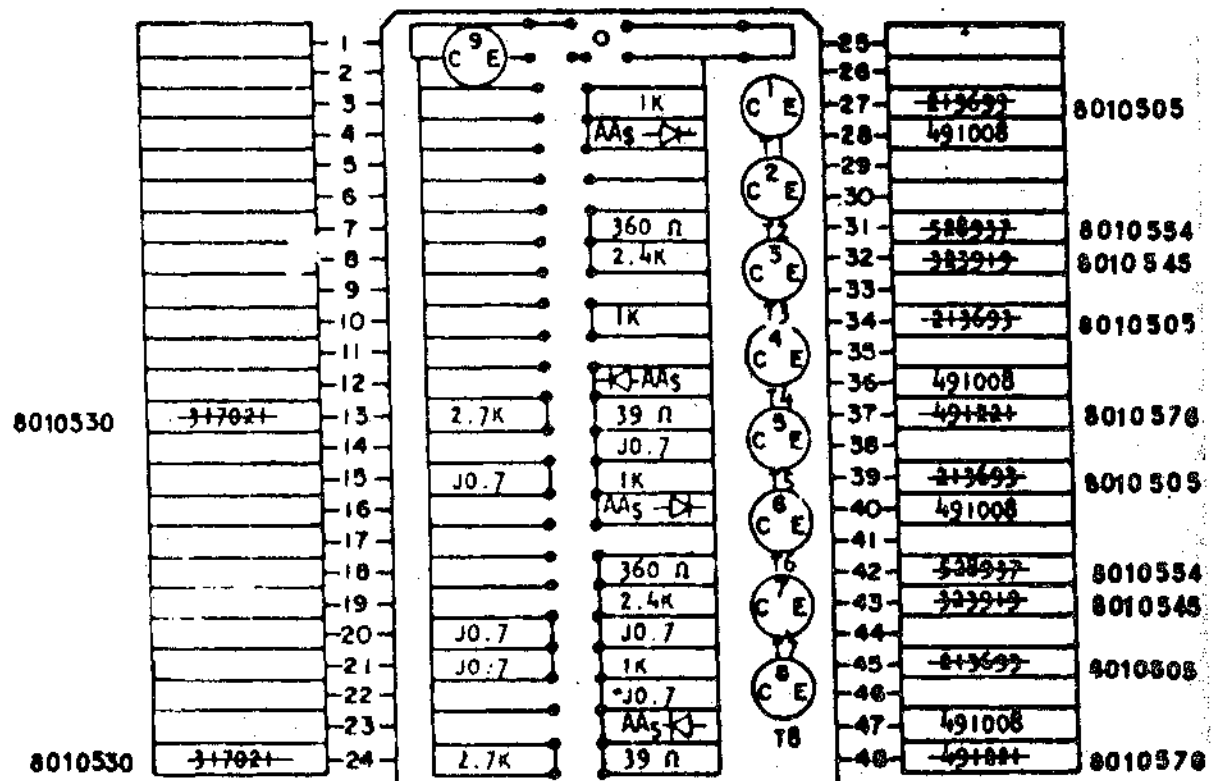
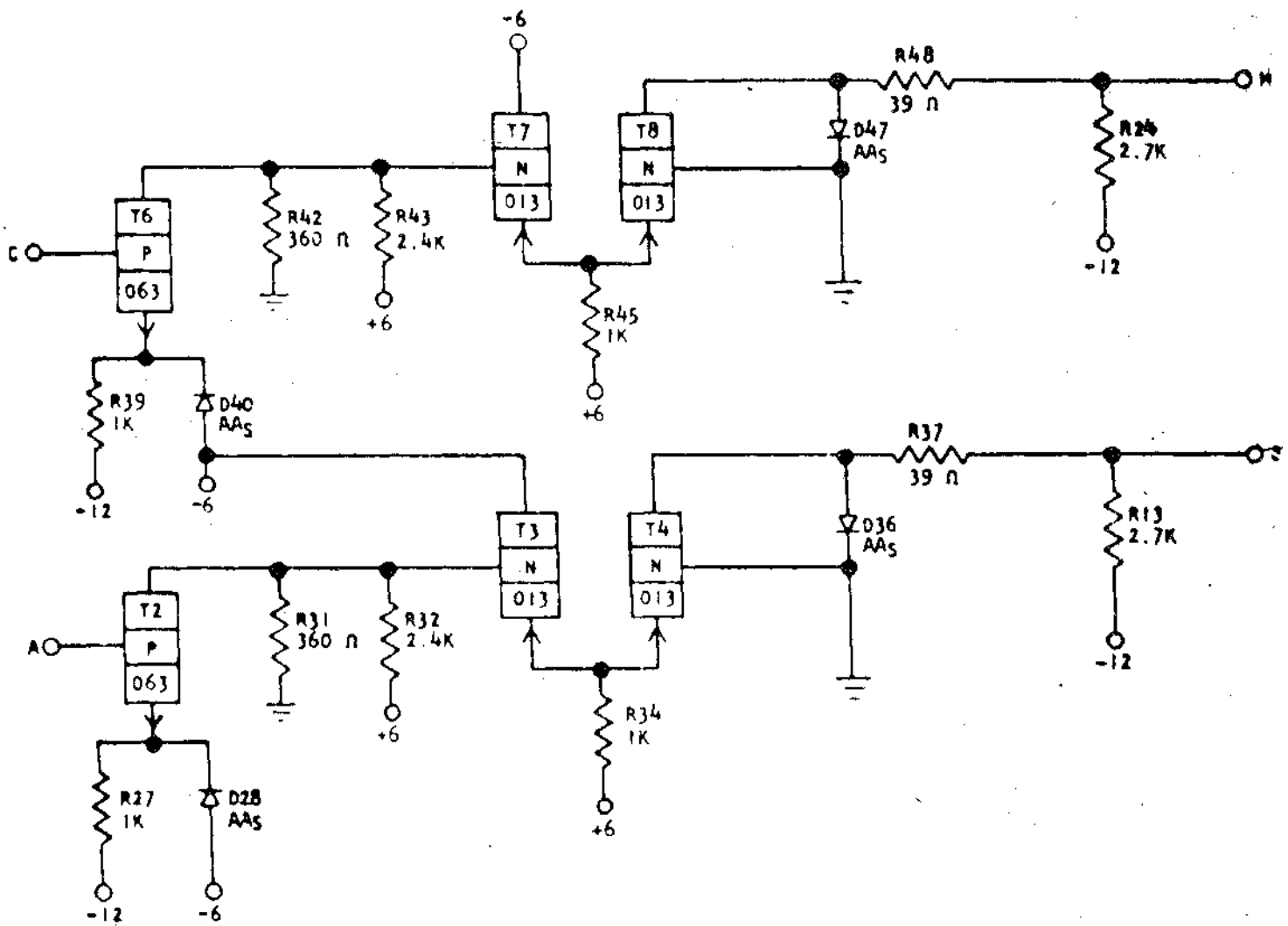
370640

APF

CODE NATURE 2-7045

370640

ALLOY-CONVERTER (P LINE TO S LINE)



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892640
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084682, 2093485 AND 2083486
- XII ALL RESISTORS ARE 1/2 WATT AND 25% UNLESS OTHERWISE NOTED
- XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296

T1		
T2	344891	063
T3	344892	013
T4	344892	013
T5		
T6	344891	063
T7	344892	013
T8	344892	013

USE WITH SPECIFICATION 8010600

IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM YSTR ALLOY CONVERTER (N LINE TO S LINE)		15.6.61	EC112132						
PROJ		TYPE	21.9.61	JT47022						
DESIGN	7/11-9-61	TYPE								
VERIF	7.9.61	CALC	20.7.61							
APPR		VERIF	18.9.61							

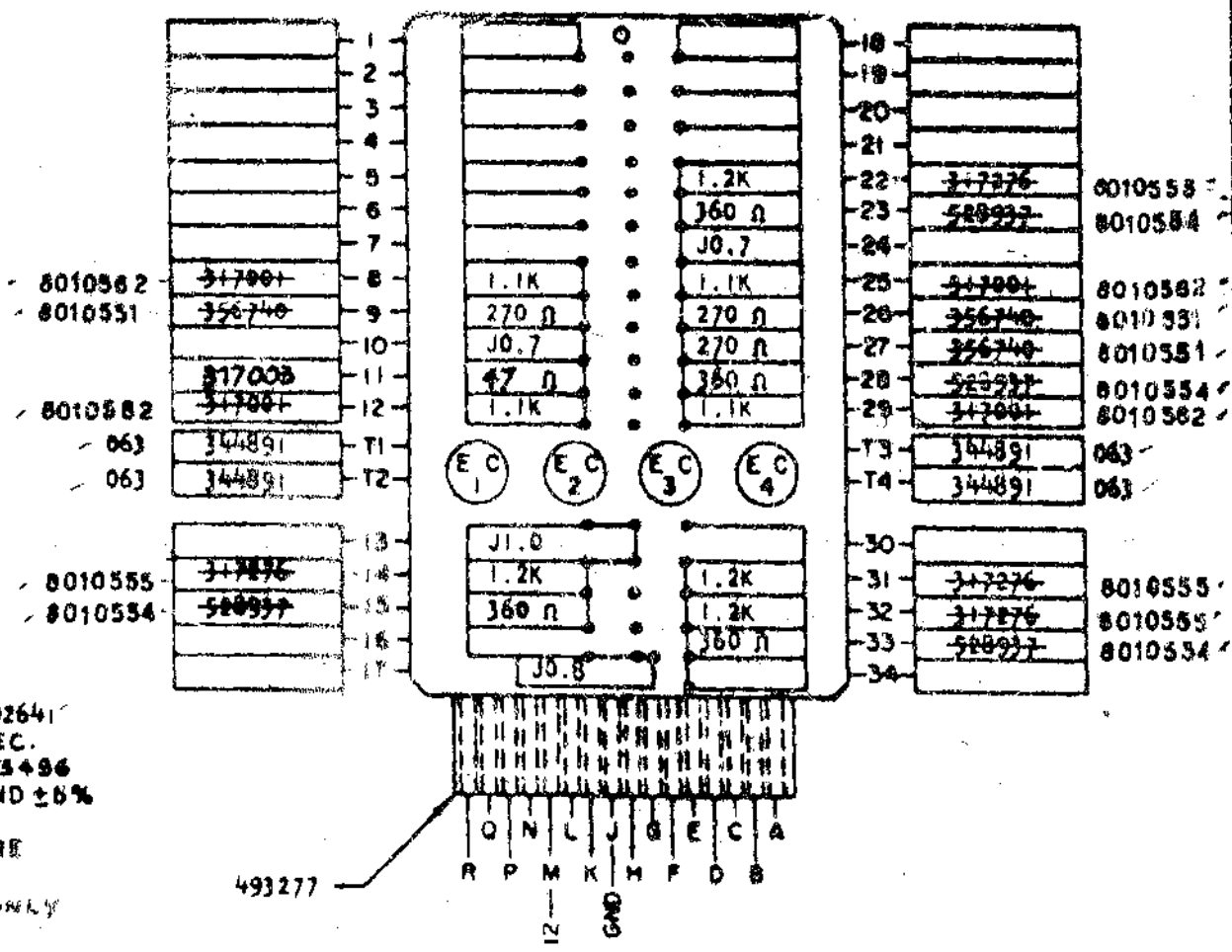
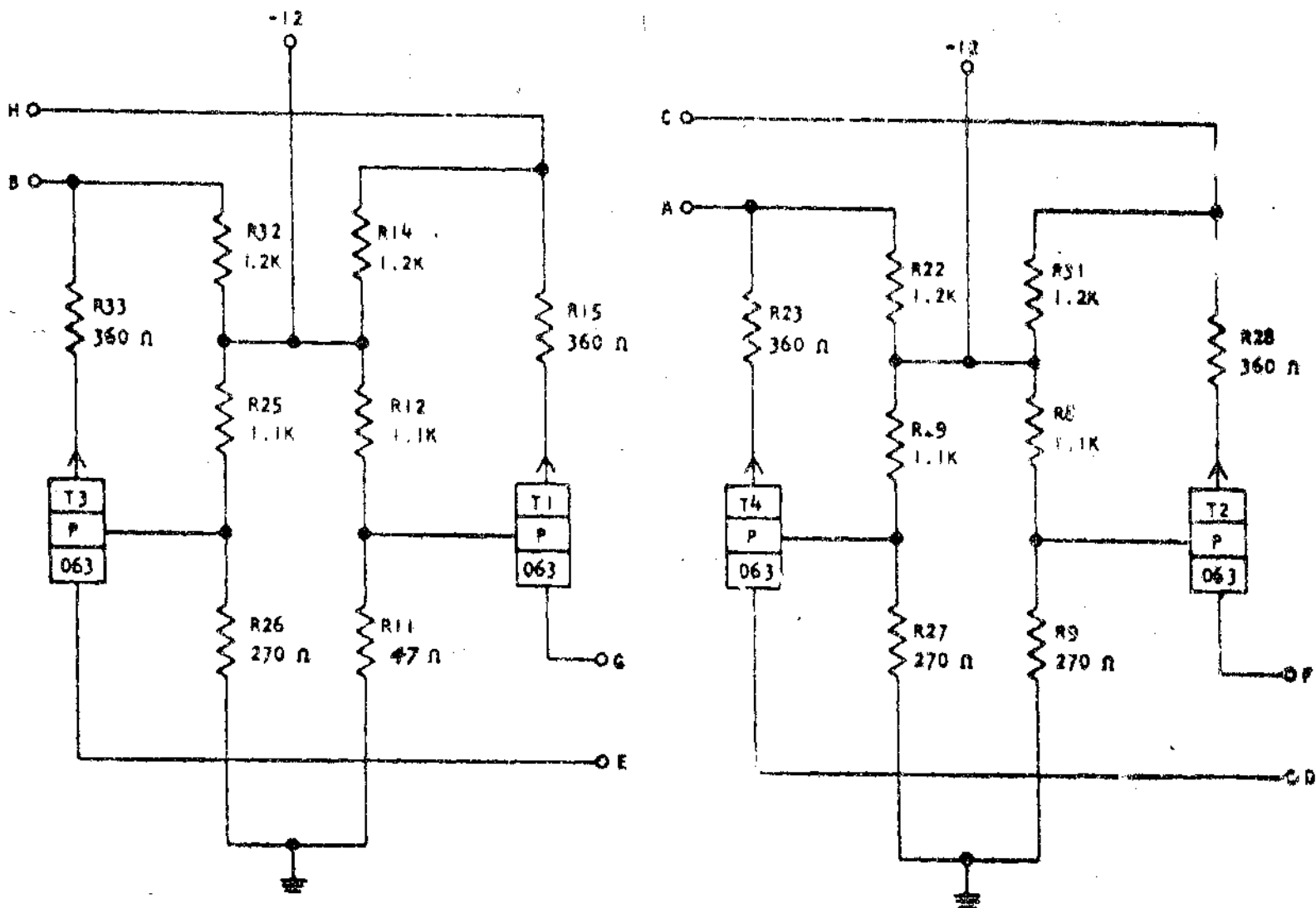
370640

370641
A P G

ECHO PULSE LINE CONVERTER

370641

RESTRICTED
NOTE XIV



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892641
- XI ASSEMBLE TO ENGINEERING SPEC. 2084892, 2083488 AND 2083486
- XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
- XIII 'J' IN BLOCK DENOTES BARE WIRE JUMPER, 491296
- XIV RESTRICTED FOR 728 USE ONLY

HOLE PATTERN
491329

USE WITH SPECIFICATION 8010800

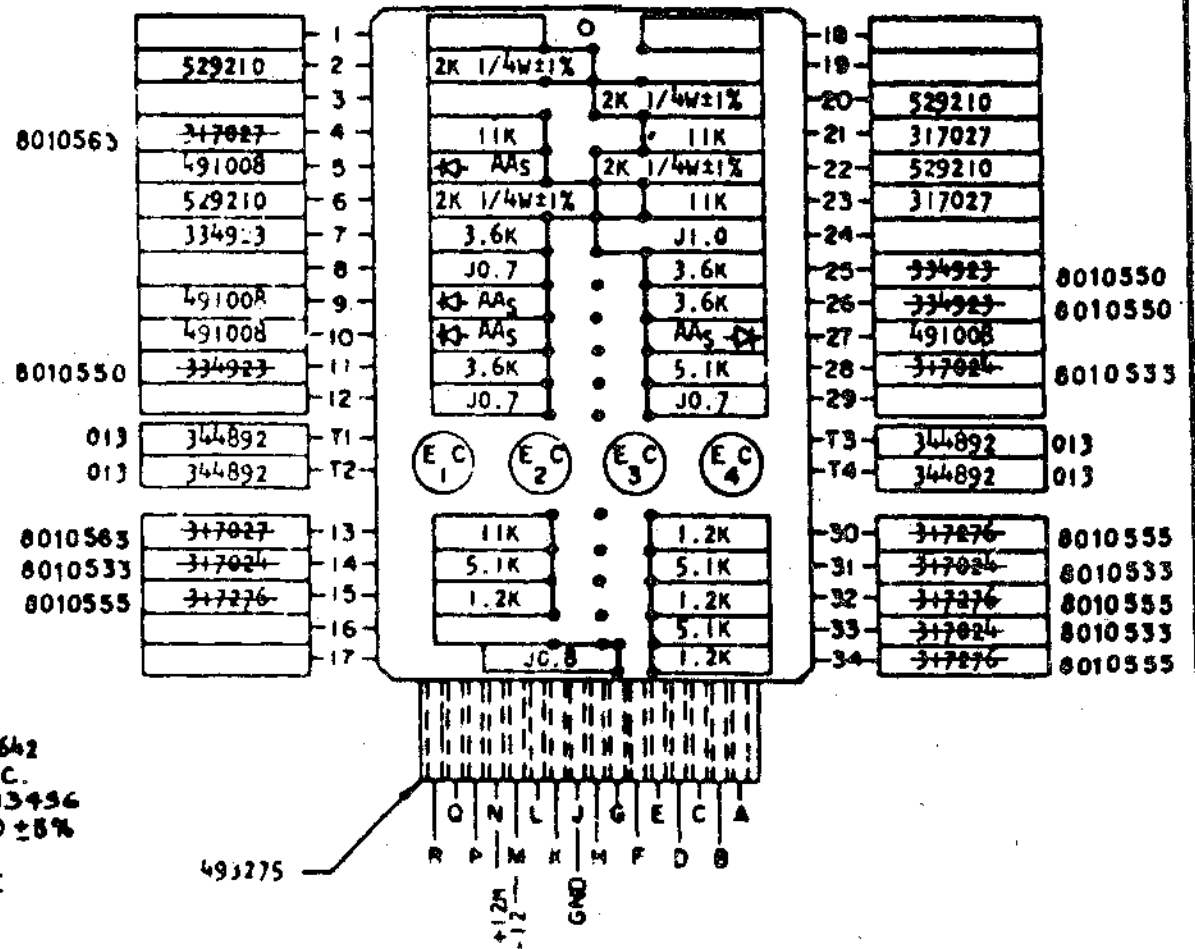
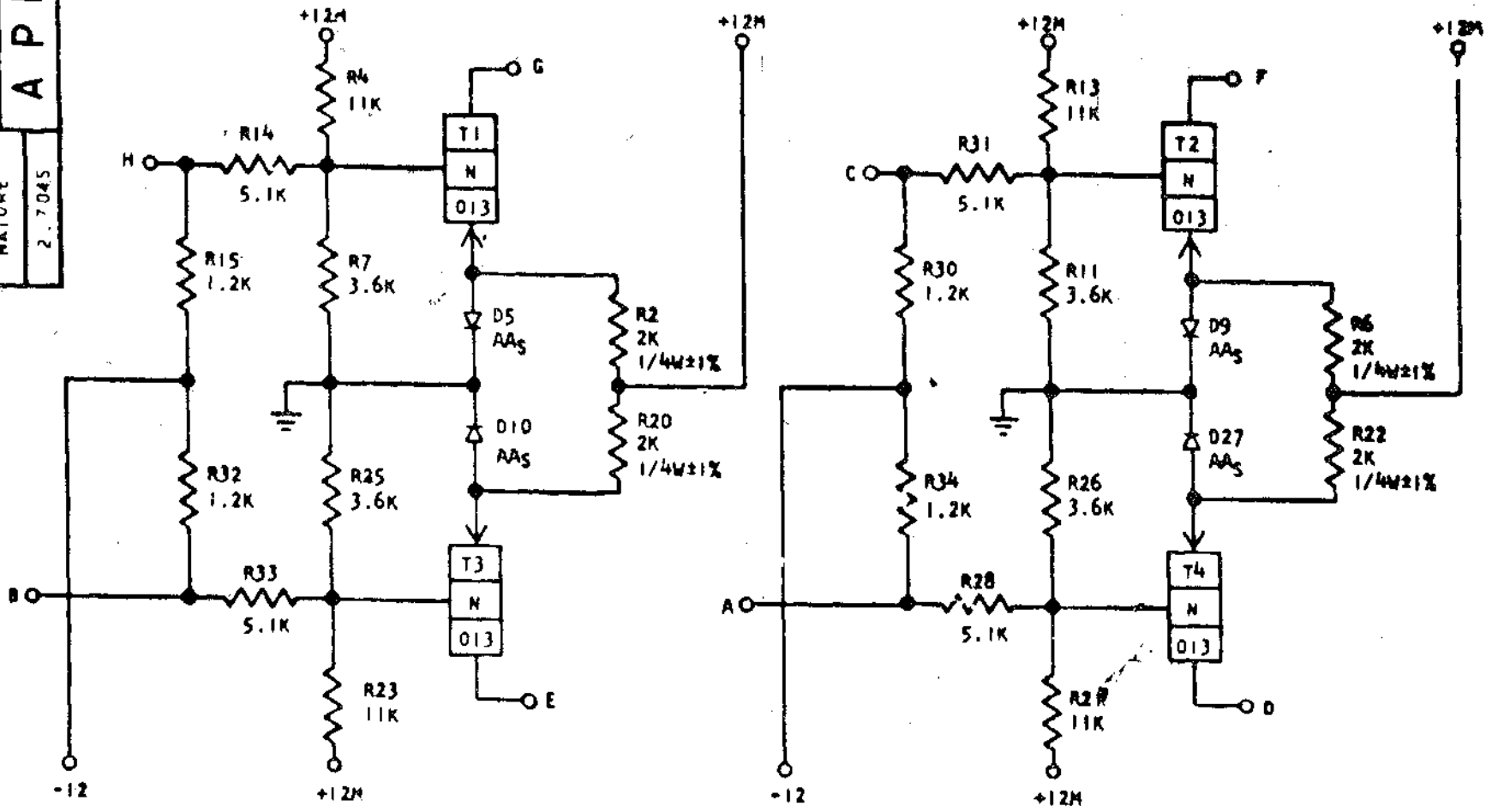
IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	ECHO PULSE LINE CONVERTER		15.6.61	EC112142						
PROJ		TYPE	21.9.61	JT47022						
DESIGN	DJc	11-5-61	14.6.62	EC 115865						
VERIF		CALC	20.11.61	JT 82756						
APPR		VERIF								

370641

370642
A P H

ALLOY CONVERTER "S" LINE TO "P" LINE

370642



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892642
 - XI ASSEMBLE TO ENGINEERING SPEC. 2084652, 2093455 AND 2093456
 - XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296

USE WITH SPECIFICATION 0010600

IBM	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NGM CARD ASM TSTR ALLOY CONVERTER (N LINE TO S LINE)	15.6.61	EC112132	21.9.61	JT47022				
PROJECT		TYPE	SMS					
DESIGN	DJA 11-9-61	EMEL						
VERIFY	9971	CALB	20.7.61					
	PK	VERIF	18.9.61					

370642

370668

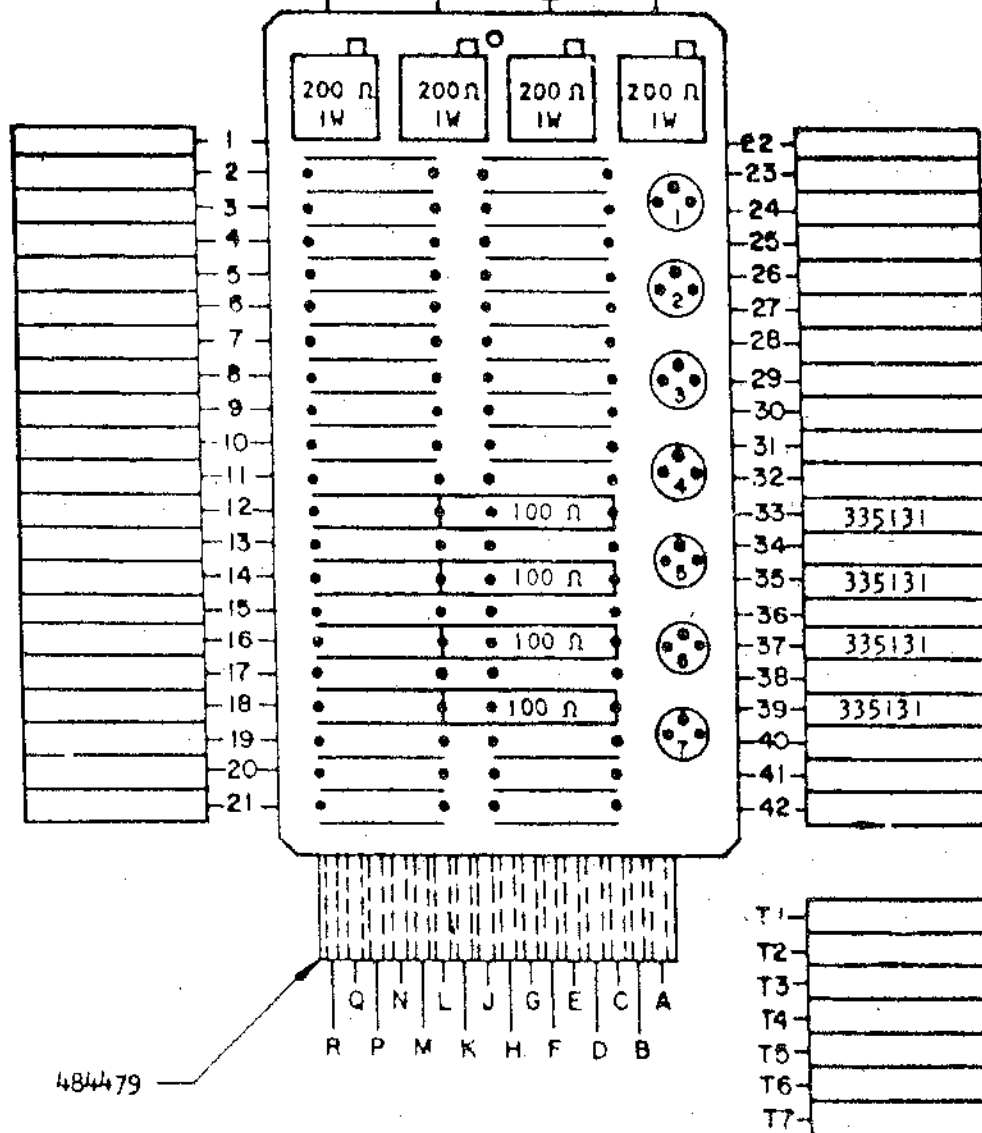
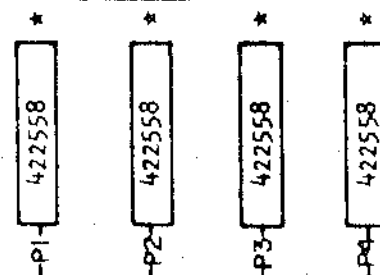
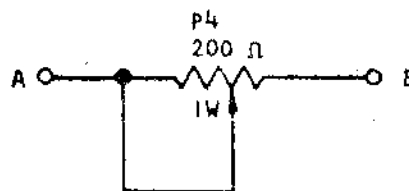
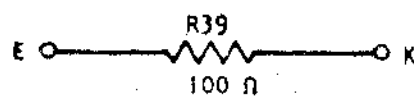
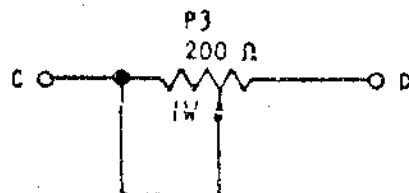
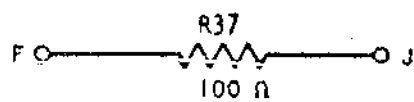
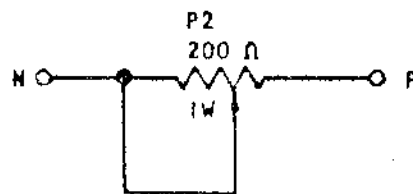
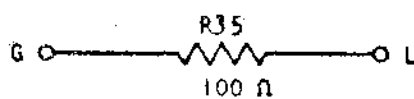
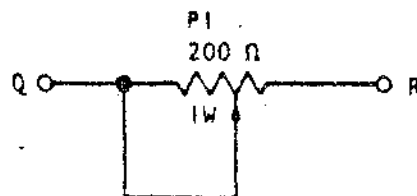
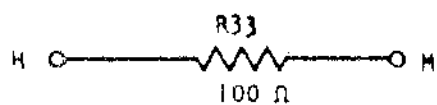
YEU-

WRITE CURRENT BALANCE

370668

CODE NATURE

2.7045



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 2093495 AND 2093496
- XII ALL RESISTORS ARE 1 WATT AND ± 5% UNLESS OTHERWISE NOTED
- * XIII ASSEMBLE POTENTIOMETER 422558 WITH JEDEC PAD 491299
- * XIV POTENTIOMETER 422558 NOT TO BE SUBJECTED TO ANY LIQUIDS

HOLE PATTERN 493474

USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR			28.8.61	EC112416				
	WRITE CURRENT BALANCE			18.10.61	JT47023				
PROJET		TYPE	SMS						
DESSIN	DJd	27.9.61	ECHL						
VERIF		CALQ	RDR 27.9.61						
APPR	Poc	11.10.61	VERIF	CLM	7.10.61				

370668

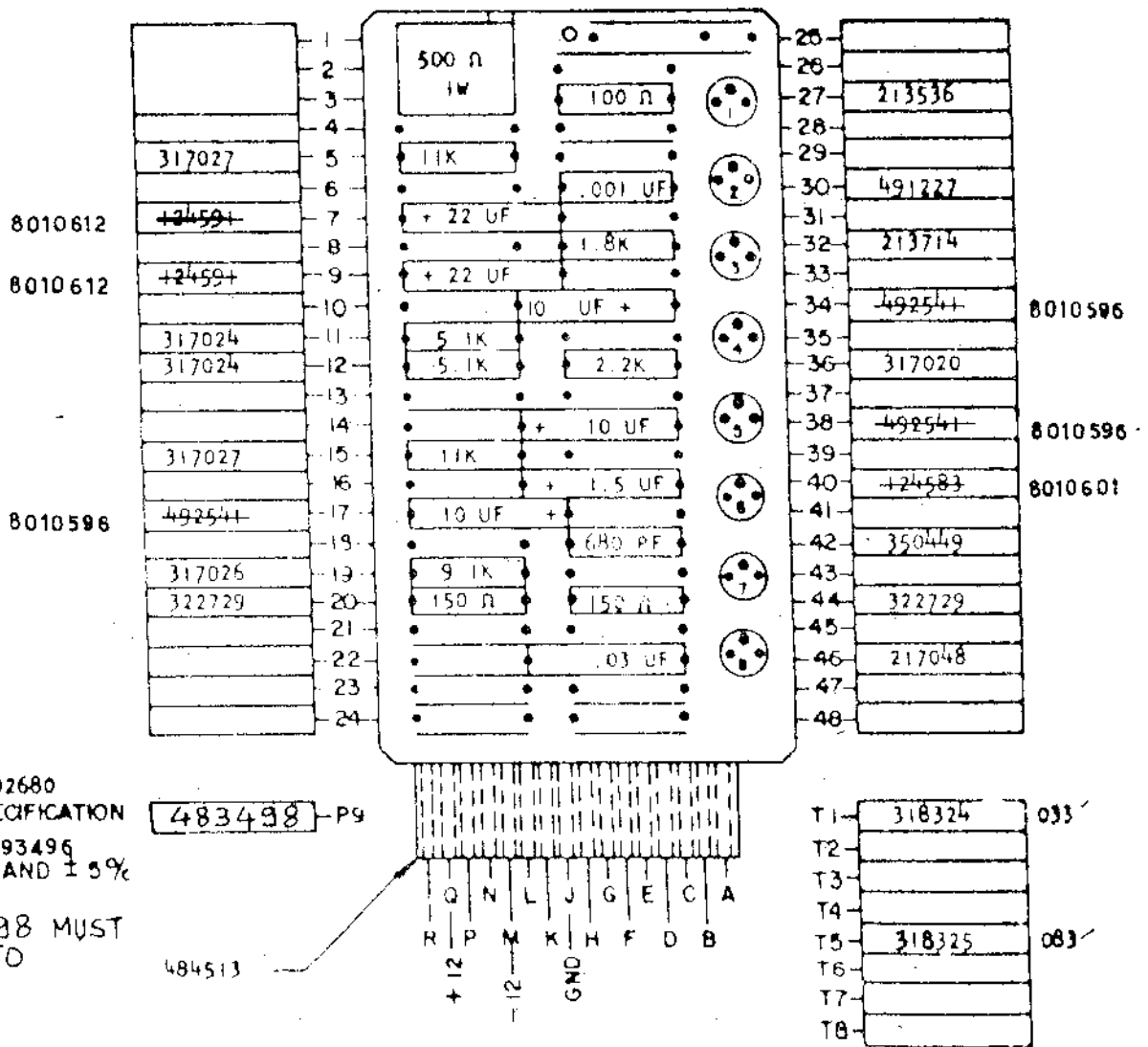
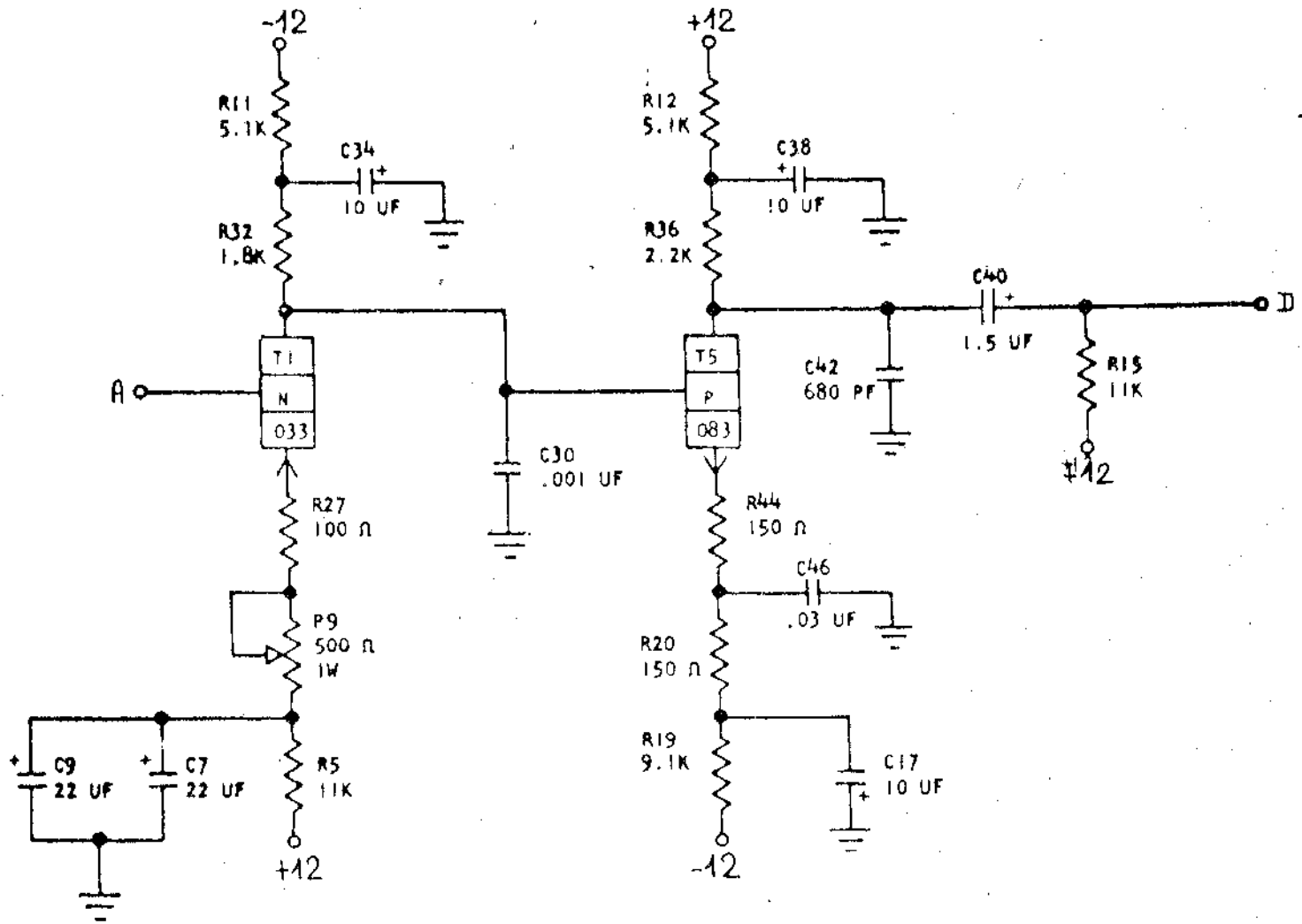
370680

ALZ-

CODE NATURE 2.7345

ALLOY - PRE AMP NO. 1 MAGNETIC TAPE MOD IV

370680



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892680
- II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 2093495 AND 2093496
- III ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
- IV POTENTIOMETER 483498 MUST NOT BE SUBJECTED TO LIQUIDS

HOLE PATTERN 493457

USE WITH SPECIFICATION 8010600

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOV	CARD ASM TSTR ALLOY	22.8.61	EC112444						
	PRE AMP NO 1 MAGNETIC TAPE MOD IV		JT47023						
PROJCT		TYPE	SMS						
DESIGN	DJA 27.9.61	CHKD		2.12.64	EC.122835				
VERIF		CAIR	PDA 27.9.61	4.5.65	JT 86893				
APPR		VERI							

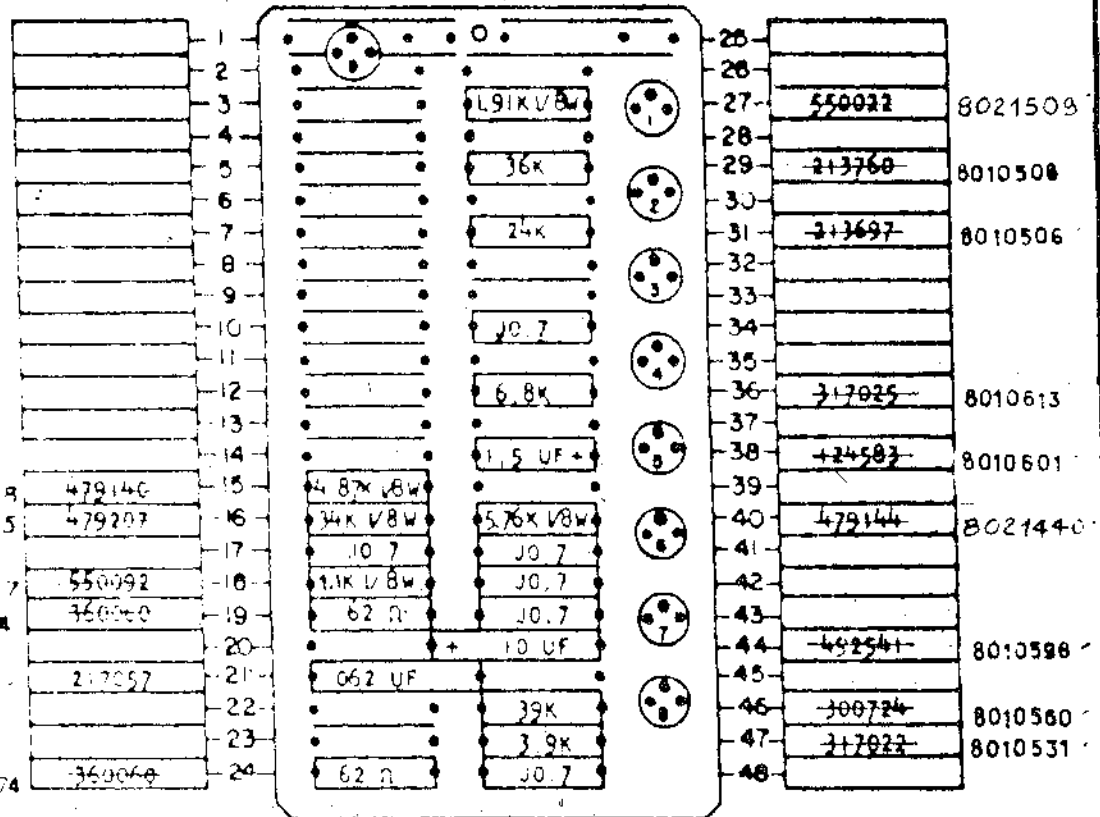
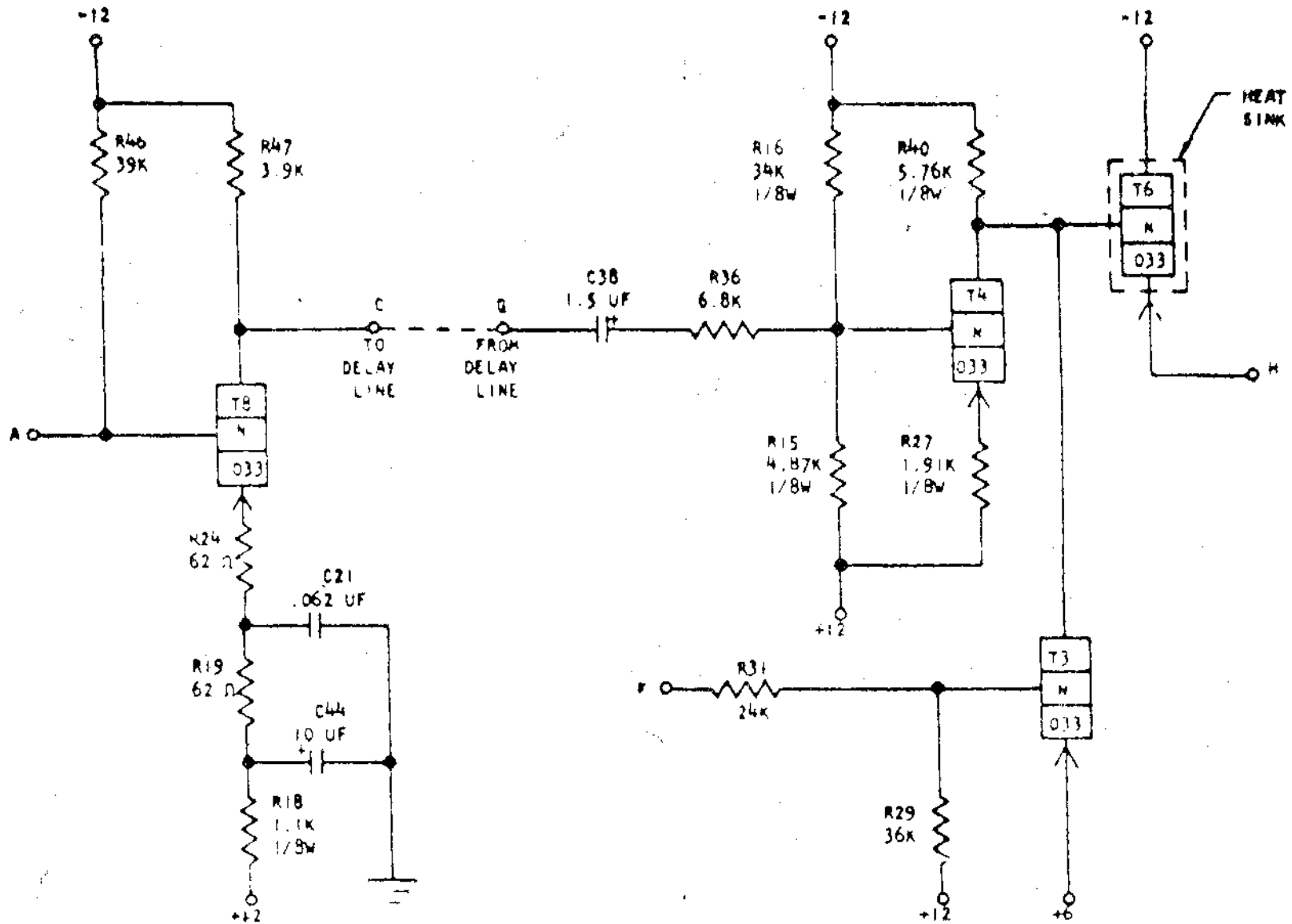
370680

370681

APZ -

370681

ALLOY - PRE AMP NO. 2 MAGNETIC TAPE



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892680
- II ASSEMBLE TO ENGINEERING SPECIFICATION 2084892 2093495 AND 2093496
- III ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED (AS NOTE II)
- III "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
- IV HEAT SINK 492434 AND 492435 TO BE SELECTED AS REQUIRED.
- V ALL 1/8W RESISTORS TO BE ± 1%.

T1		
T2		
T3	318324	033
T4	318324	033
T5		
T6	318324	033
T7		
T8	318324	033

HOLE PATTERN
493457

USE WITH SPECIFICATION 8010800

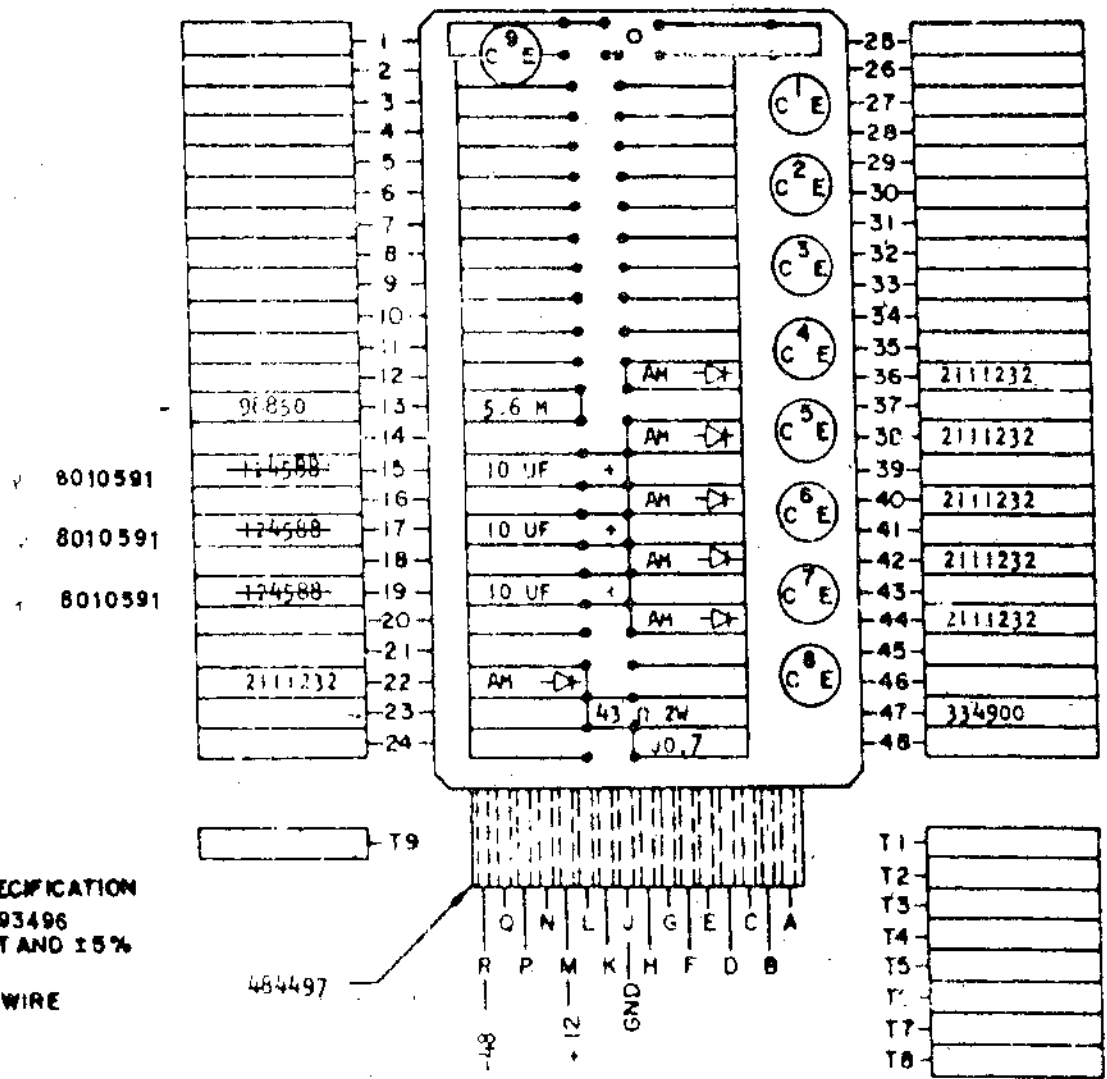
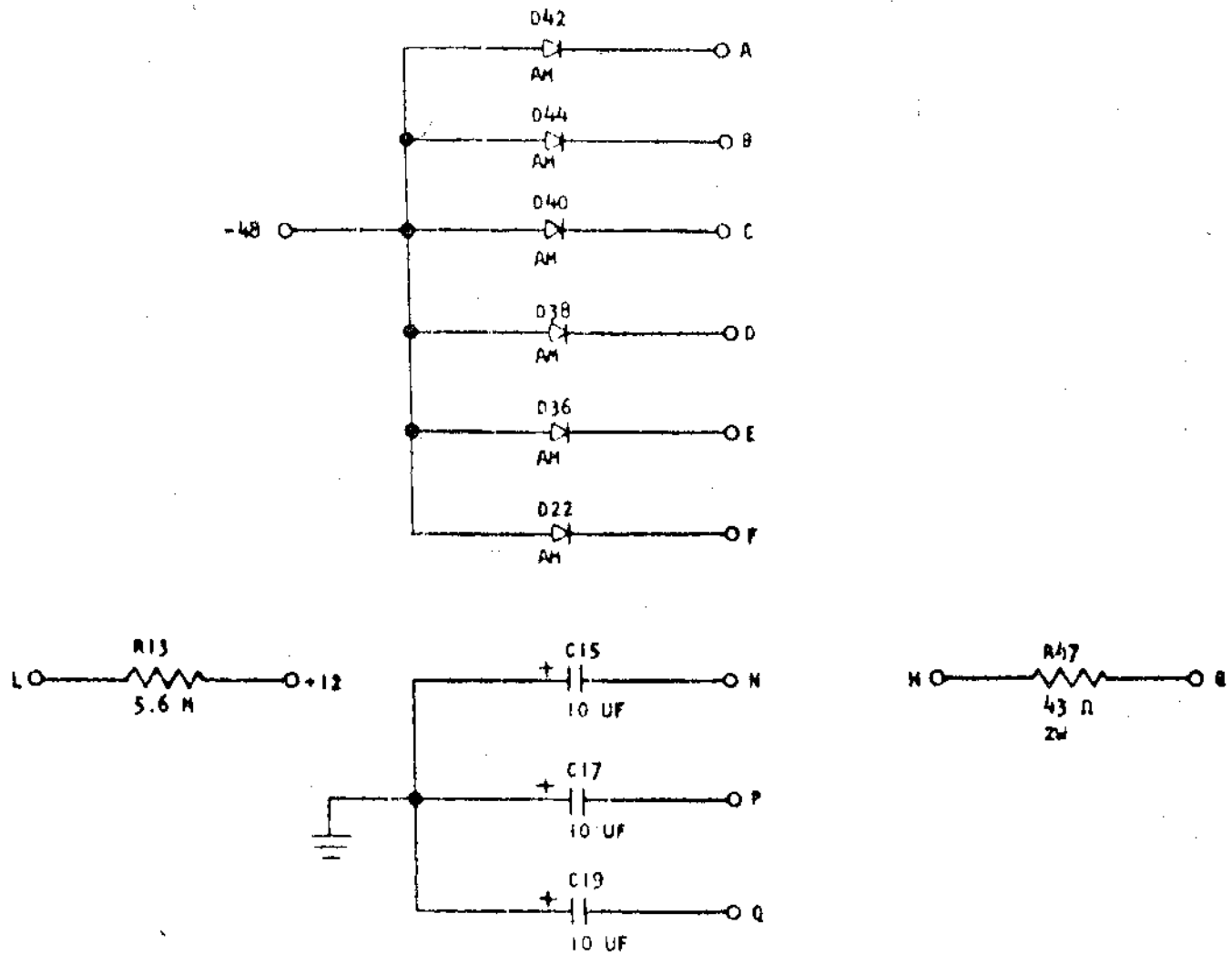
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NGM	CARD ASM TSTR ALLOY			22.8.61	EC112444						
PROJ	PRE AMP NO 2 MAGNETIC TAPE			18-10-61	JT47023						
DESIGN	DJG	27-3-61	ETMEL	20-9-62	JT82893						
VERIF			CALQ	ADANO	27-9-64						
APPR			VERIF								

370681

370701

RESISTOR AND SUPPRESSOR

370701
Y H M -
CODE NATURE
2.7045



- NOTES**
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 2093495 AND 2093496
 - III ALL RESISTORS ARE 1/2 WATT AND 15% UNLESS OTHERWISE NOTED
 - IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296

HOLE PATTERN
483457

USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NO	CARD ASM TSTR RESISTOR AND SUPPRESSOR			10.8.61	EC112426						
PROJET				18.10.61	JT47023						
DESSIN	DJa	27-6-61	ECHEL		JT81888						
VERIF.			CALQ	ADAW	27-9-61	29-1-65	JT81888-A				
APPR			VERIF								

370701

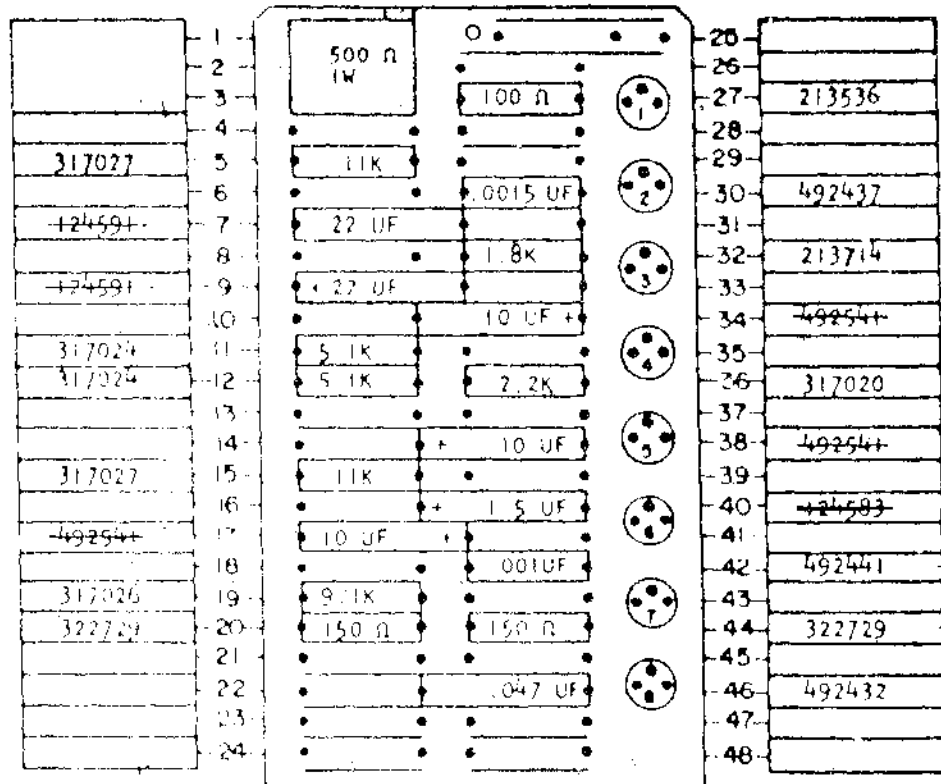
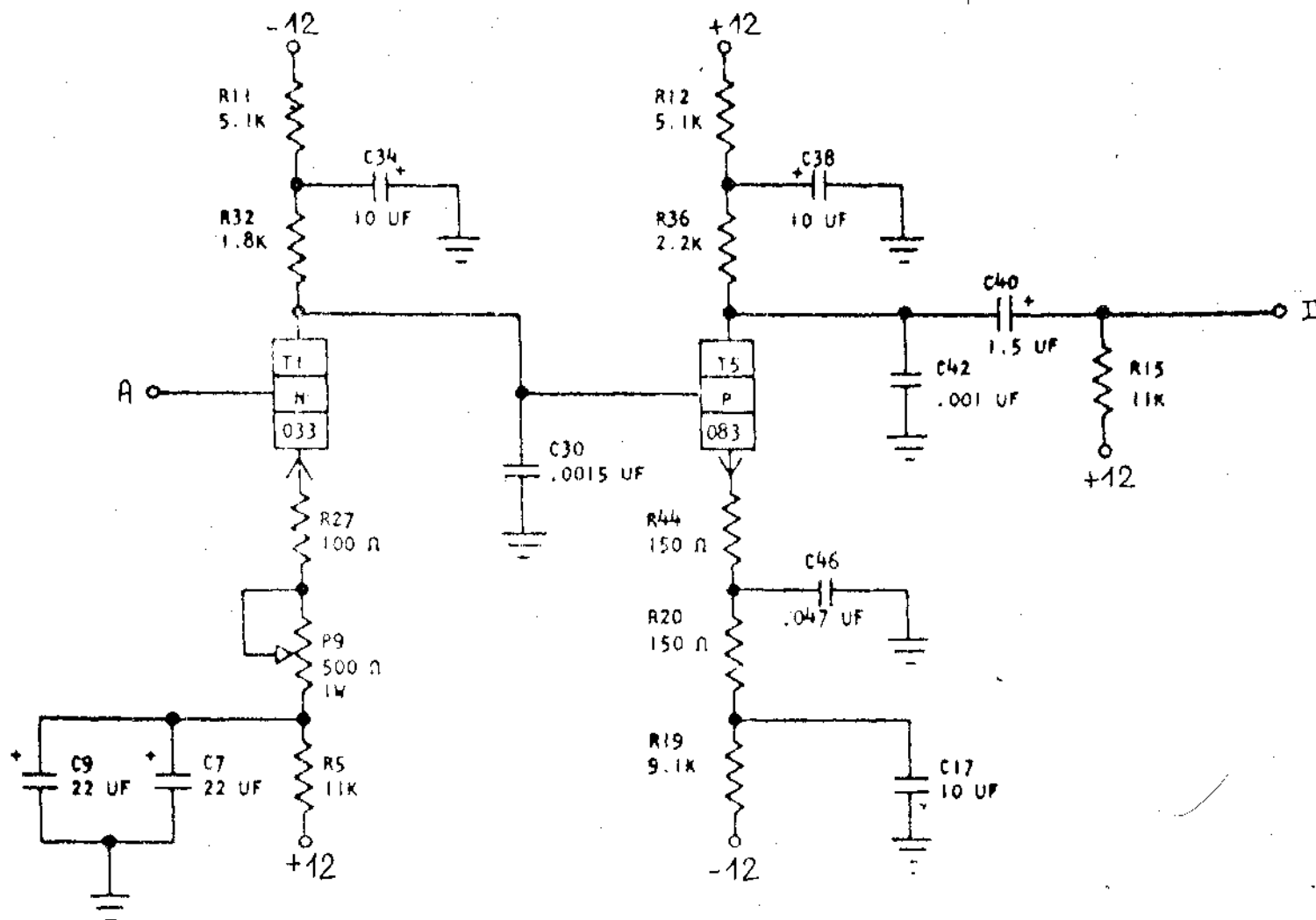
370706

ARK-

370706

ALLOY - PRE AMP NO. 1 MAGNETIC TAPE MOD II

CODE
NATURE
2-7-64



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892706
 - XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 2093495 AND 2093498
 - XII ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
 - XIII POTENTIOMETER 483498 MUST NOT BE SUBJECTED TO LIQUIDS

483498 P9

484513

T1	318324	033
T2		
T3		
T4		
T5	318325	083
T6		
T7		
T8		

HOLE PATTERN
493457

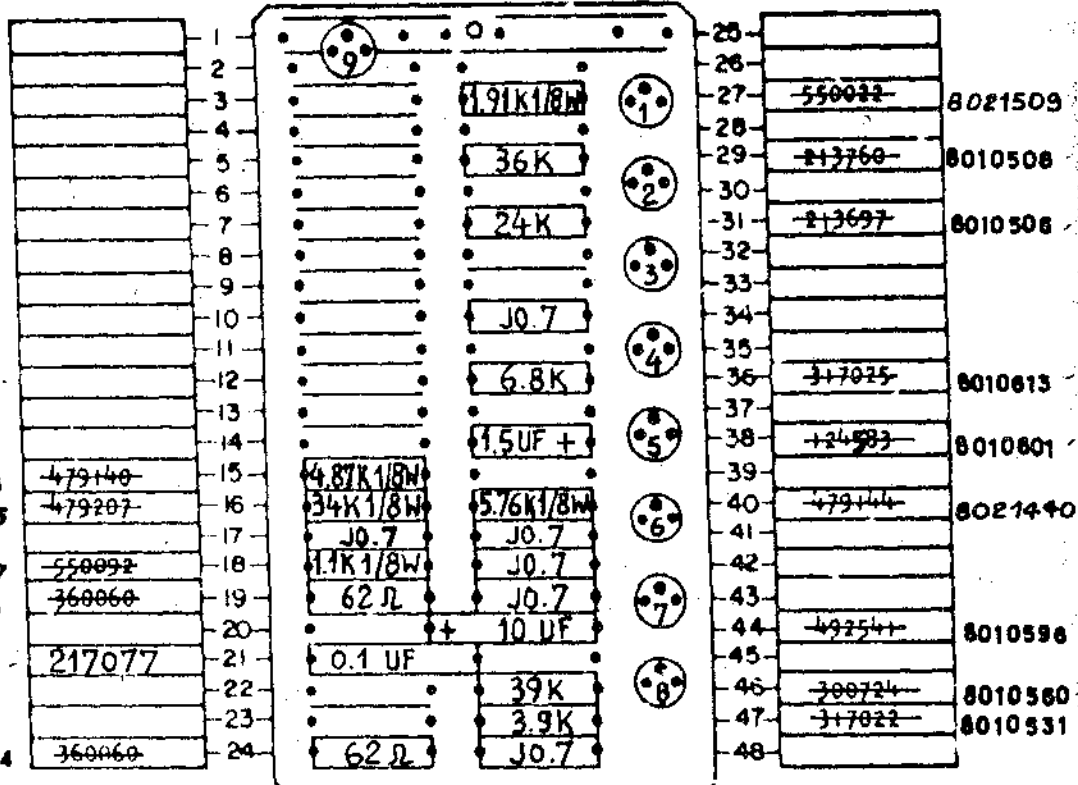
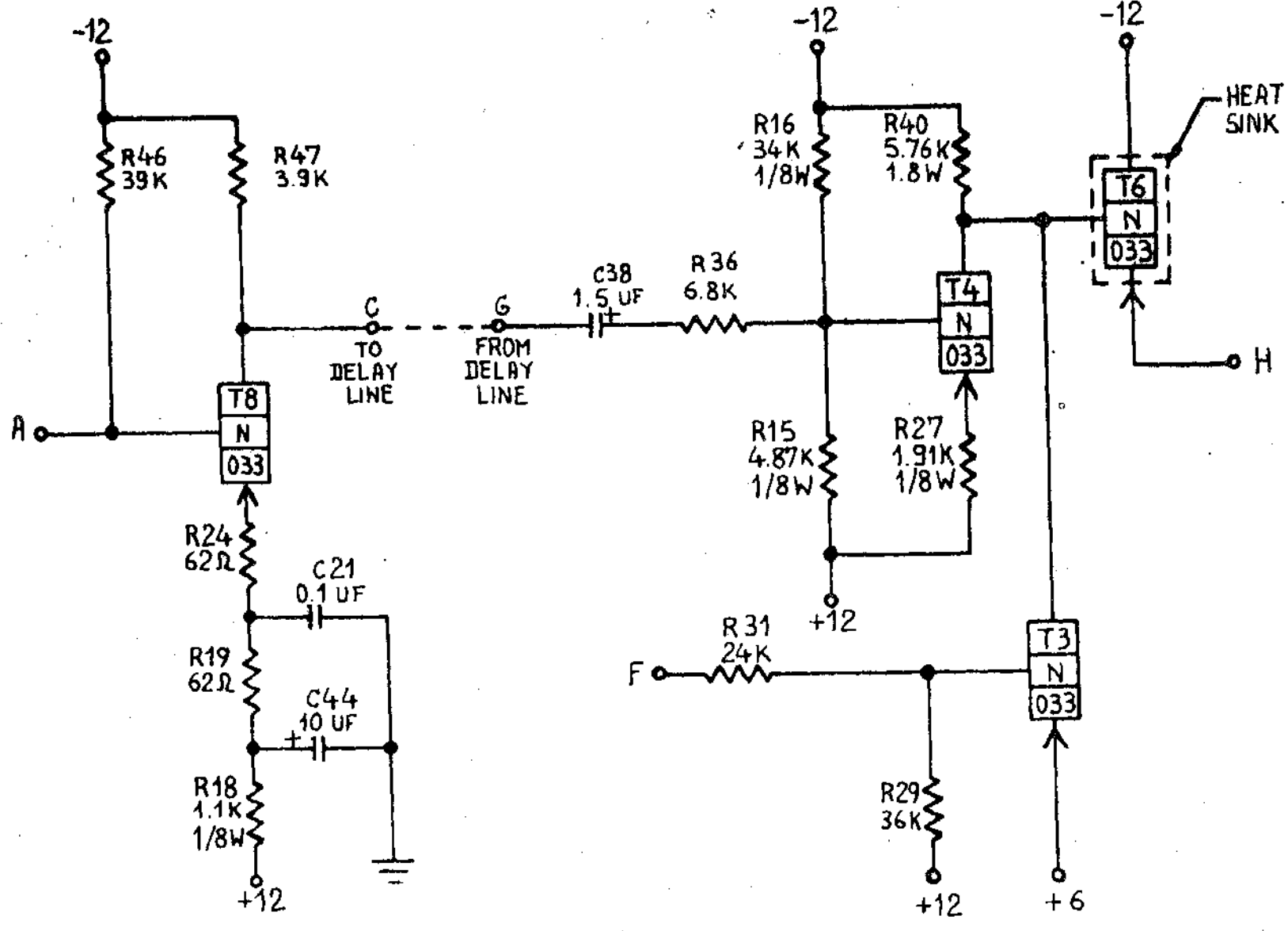
USE WITH SPECIFICATION 8010000

ITEM	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
DCM CARD ASM TSTR ALLOY	22-8-61	EC112444						
PRE AMP NO 1 MAGNETIC TAPE MOD II		JT47023						
DESIGN	27-9-61	EC 122835	2-12-64					
VERIFY	27-9-61	JT 86893	4-5-65					
APPR								

370706

370707
 CODE NATURE
 2-7045
 ARL-

ALLOY - PRE AMP NO. 2 MAGNETIC TAPE



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892706
 - XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 2093495 AND 2093496
 - XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED (AS NOTE IX)
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
 - XIV HEAT SINK 492434 AND 492435 TO BE SELECTED AS REQUIRED.
 - XV ALL 1/8W RESISTORS TO BE ±1X

HOLE PATTERN
 493457

USE WITH SPECIFICATION 8010600

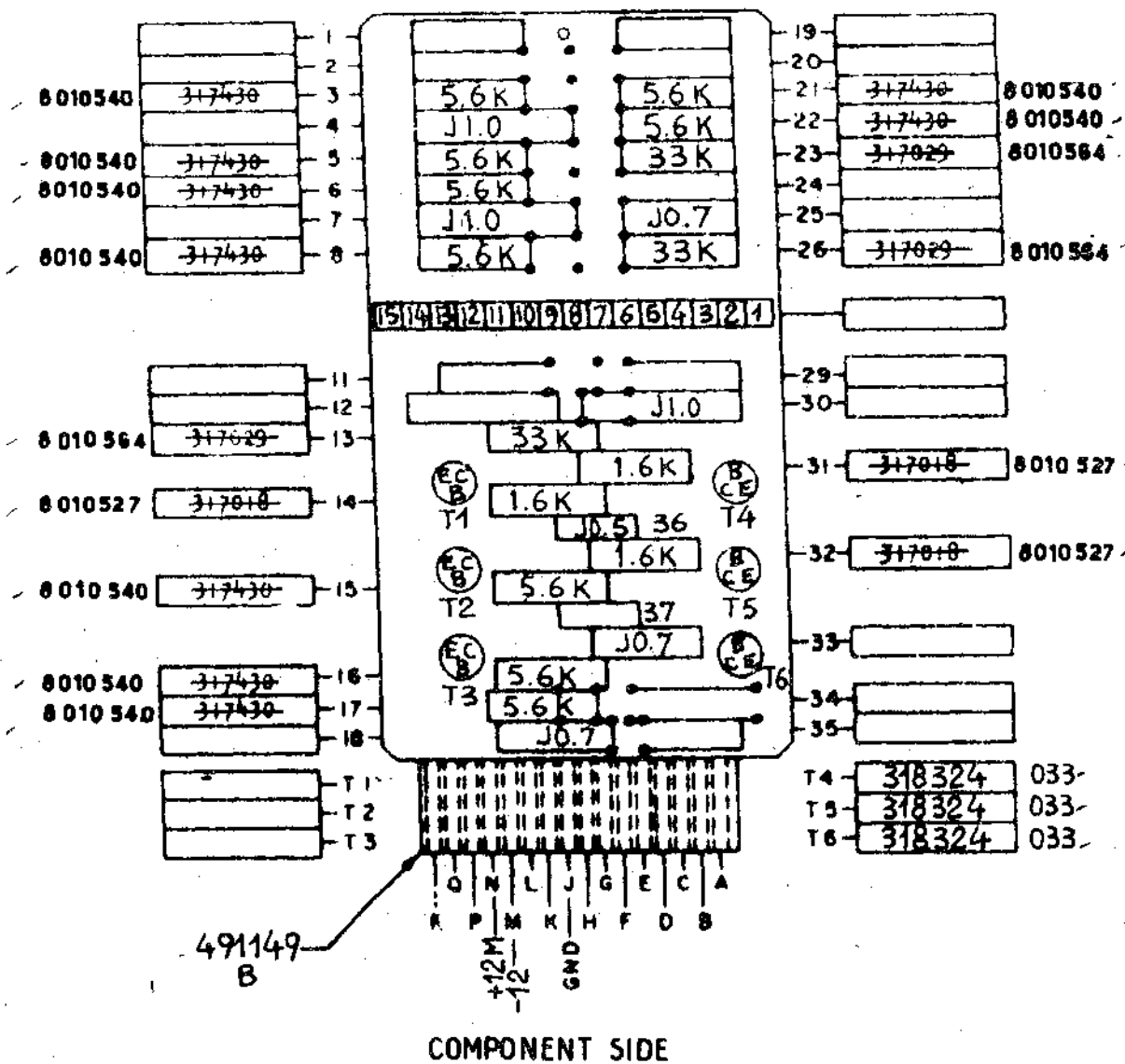
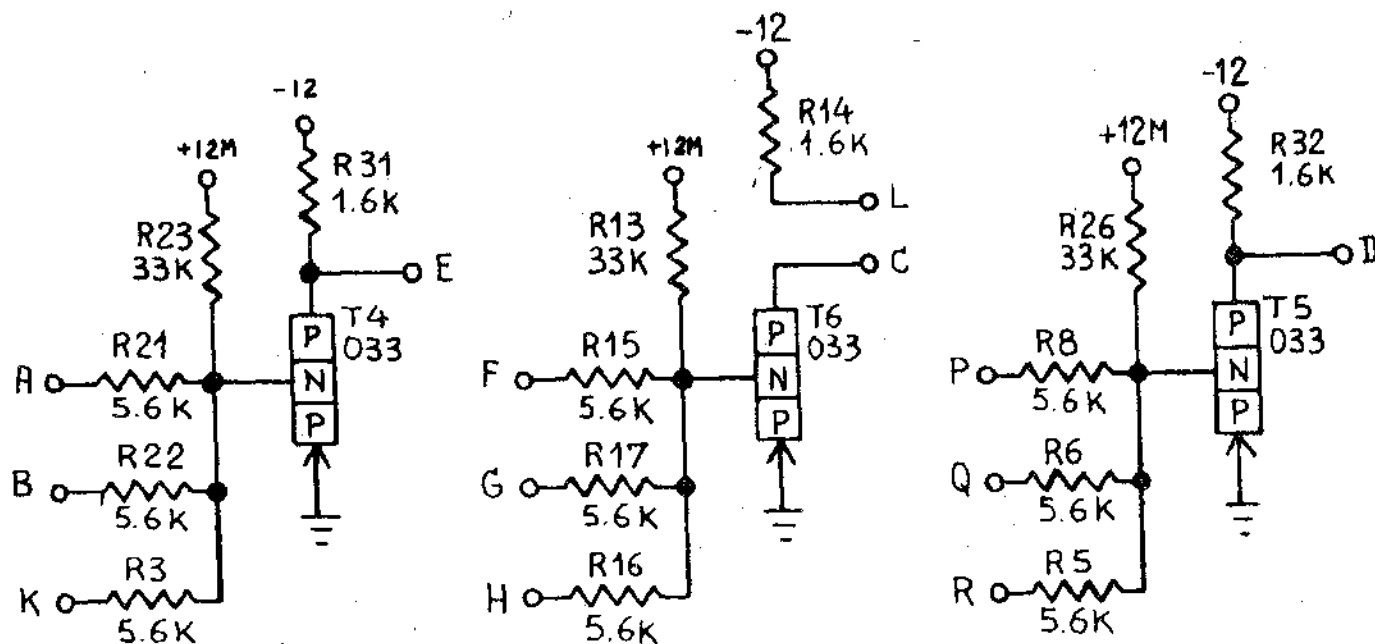
IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NCR	CARD ASM TSTR ALLOY	22.8.61	EC112444						
PROJECT	PRE AMP NO. 2 MAGNETIC TAPE	18-10-61	JT47023						
DESIGN	D.J. 27-9-61		JT82893						
VERIFY									
APPR									

CTRL - INVERTERS "N" TYPE

371029

CD-

CODE NATURE 2-7045



- NOTES
- I TEST TO ENGINEERING SPECIFICATION 891029
 - II ASSEMBLE TO ENGINEERING SPECIFICATIONS 2084892 - 2093495 AND 2093498
 - III ALL RESISTORS ARE 1/2 WATT AND $\pm 5\%$ UNLESS OTHERWISE NOTED
 - IV "J" IN BLOCK DENOTES BARE WIRE AMPER. 491296

USE WITH SPECIFICATION 8010800

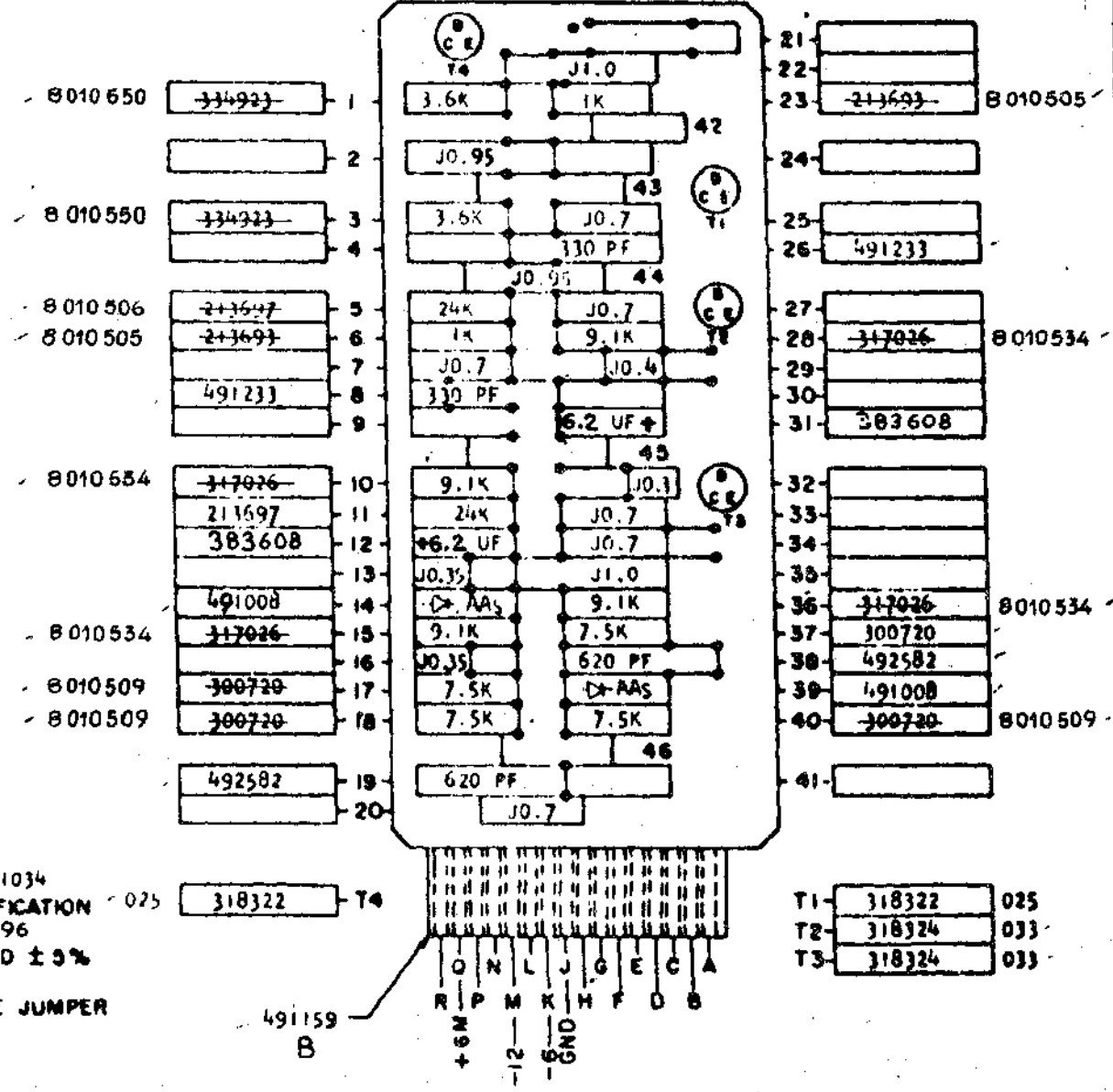
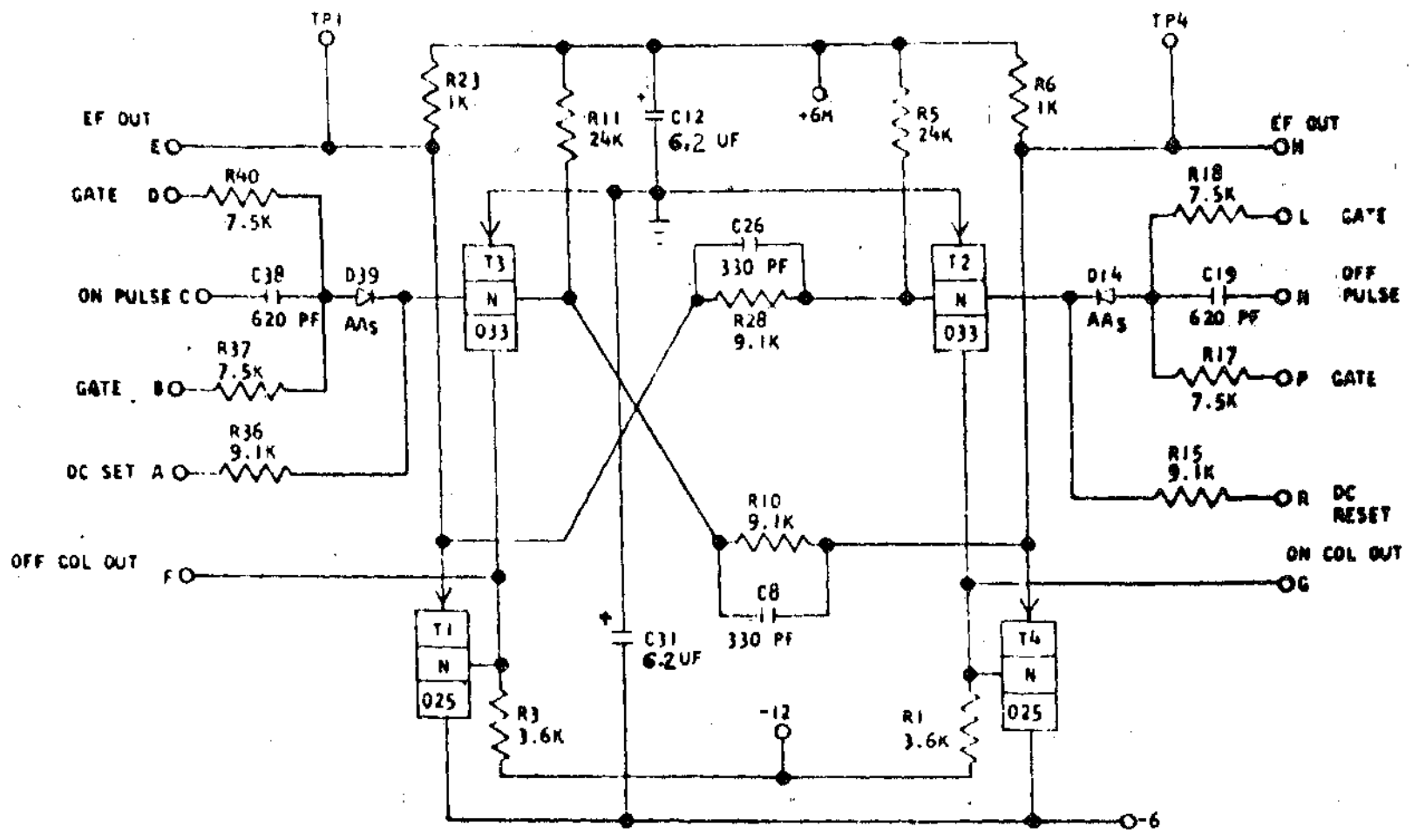
IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR_CTRL	20.6.60	EC 109187						
	INVERTERS "N" TYPE	24.2.61	JT 47013						
PROJET	TYPE								
DESIGN	ECHEL								
VERIF	CALC								
APPL	VERIF								

371029

371034
AR --
CODE MATURE 2-7045

371034

CTRL TRIGGER #1



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891034
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 - 2093495 AND 2093496
 - III ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
 - IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296

COMPONENT SIDE

HOLE PATTERN
493456

USE WITH SPECIFICATION 8010800

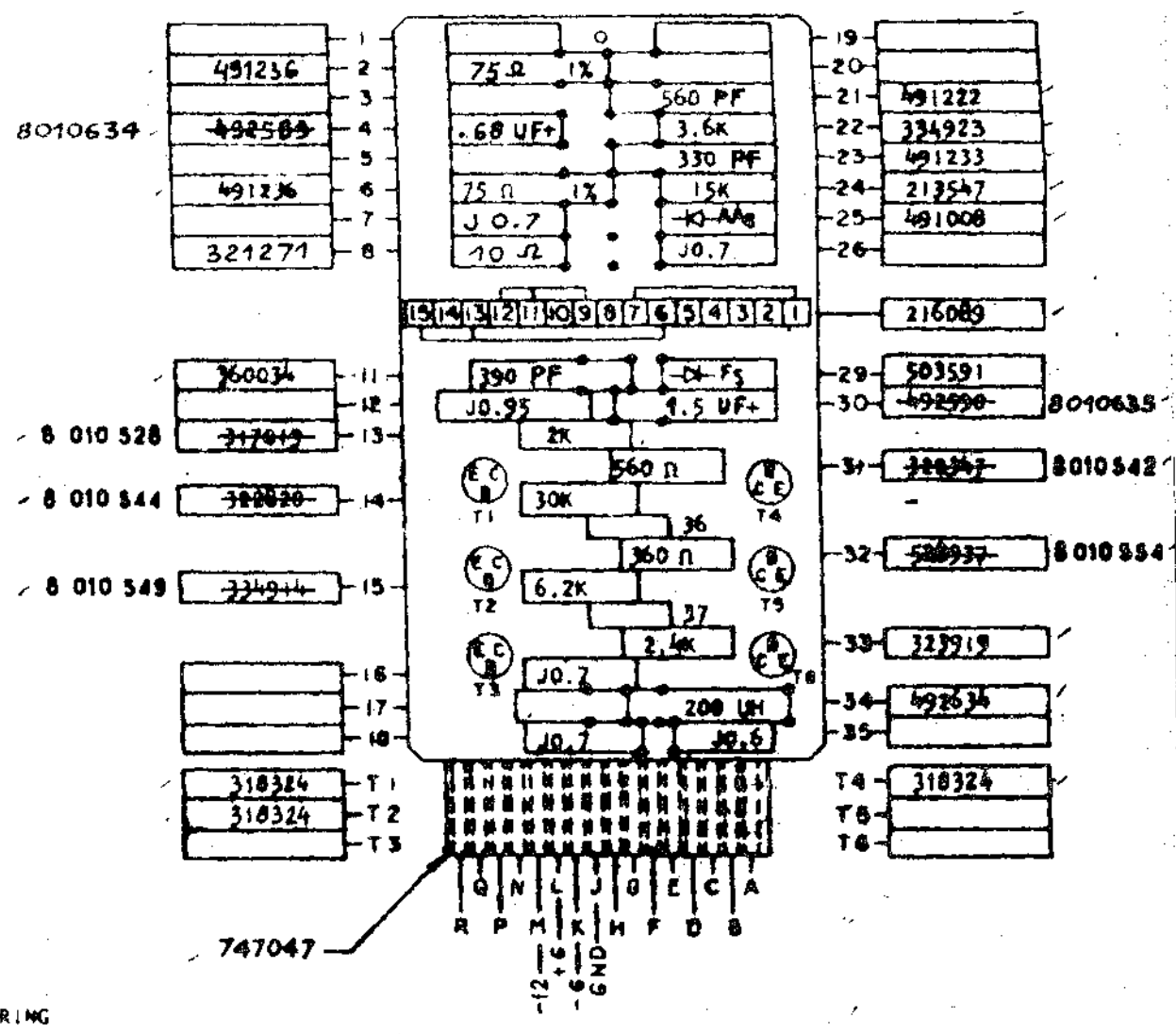
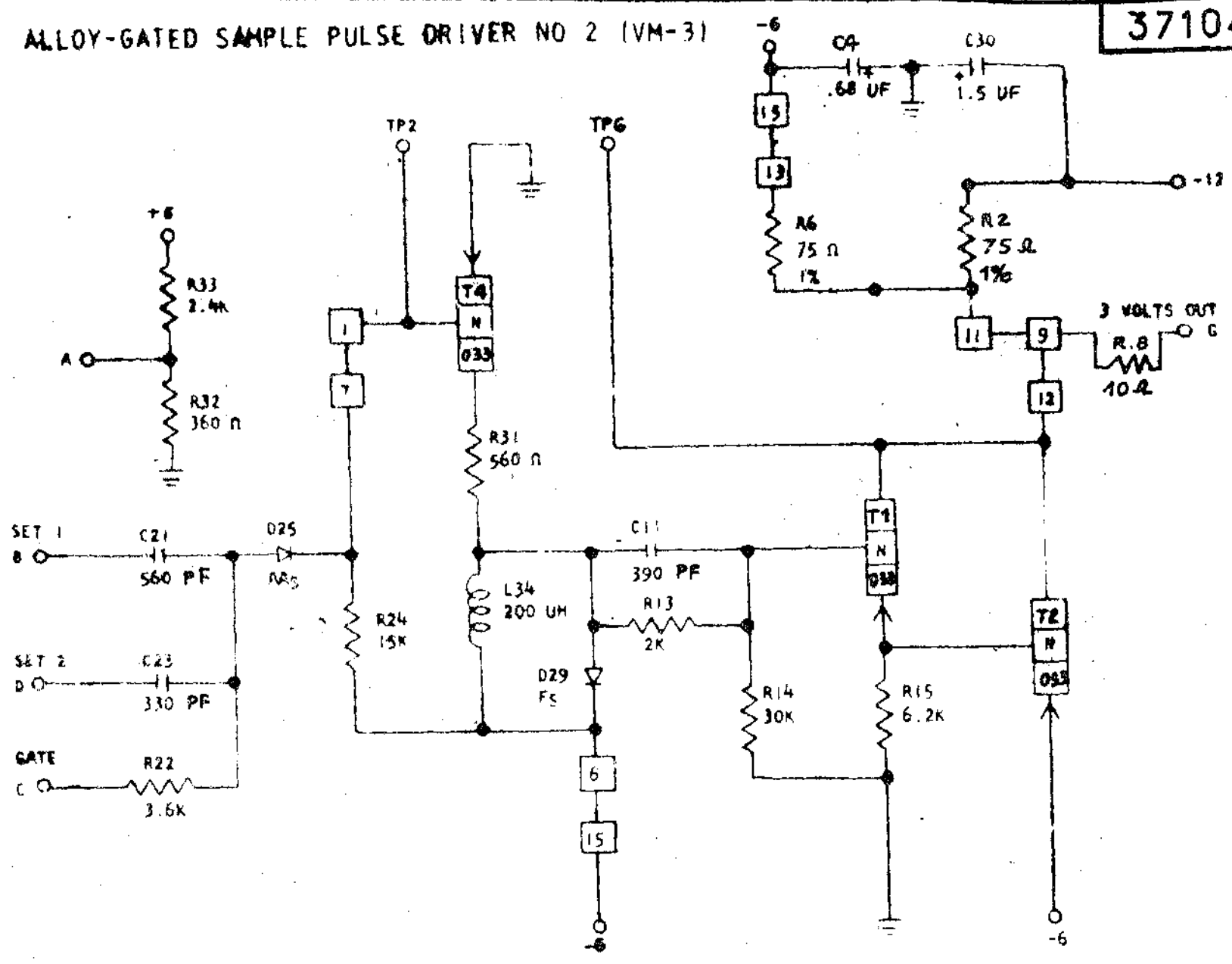
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
DCM	CARD ASM TSTR-CTRL			23-3-60	EC 108 563	17-1-61	EC 110 970	21-12-61	EC 113082		JT.84689
	TRIGGER #1			2-11-60	JT 47005	11-5-61	JT 47647	19-3-62	JT81881	15-9-64	EC.121632
PROJET		TYPE	SMS	20-5-60	EC 108709	15-9-61	EC 112680	24-5-62	JT81852	1-4-65	JT.86756
DESSIN		EMEI		8-12-60	JT 47 996	30-11-67	JT 80 858	14-6-62	EC 114443		
VERIF		CALQ	0.46 14-11-61					21-9-62	JT 82899		
APPR		VERIF									

371034

371041
CODE NATURE
AYWS
2-70MS

ALLOY-GATED SAMPLE PULSE DRIVER NO 2 (VM-3)

371041



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891041
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2 084 692 - 2 093 495 AND 2 093 496
 - VII ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER. 491296

COMPONENT SIDE

HOLE PATTERN
491020

USE WITH SPECIFICATION 8010600

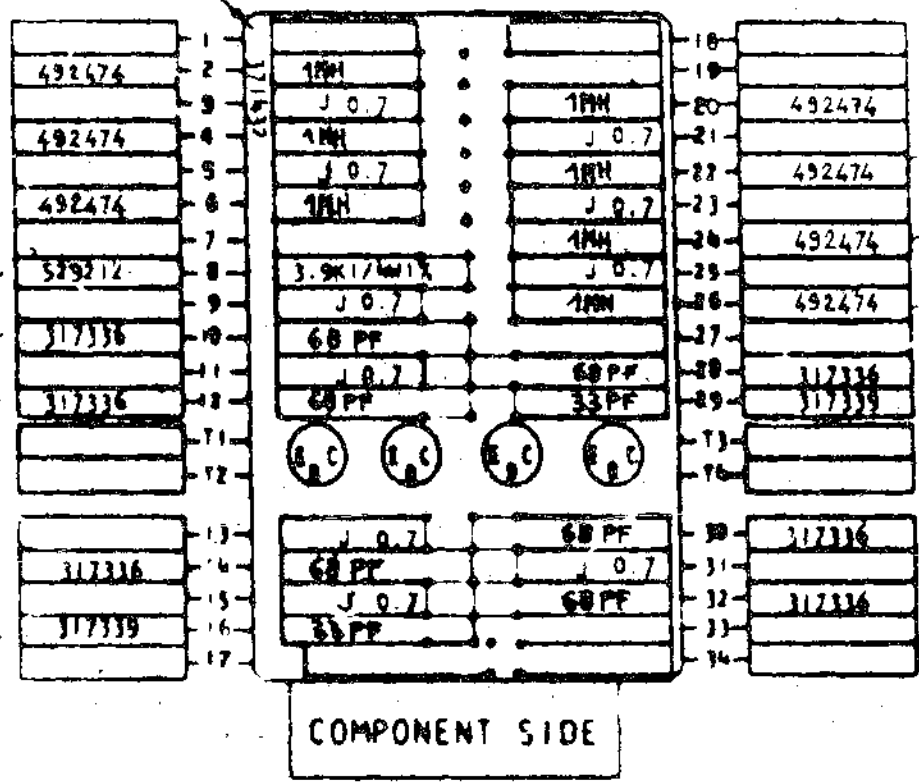
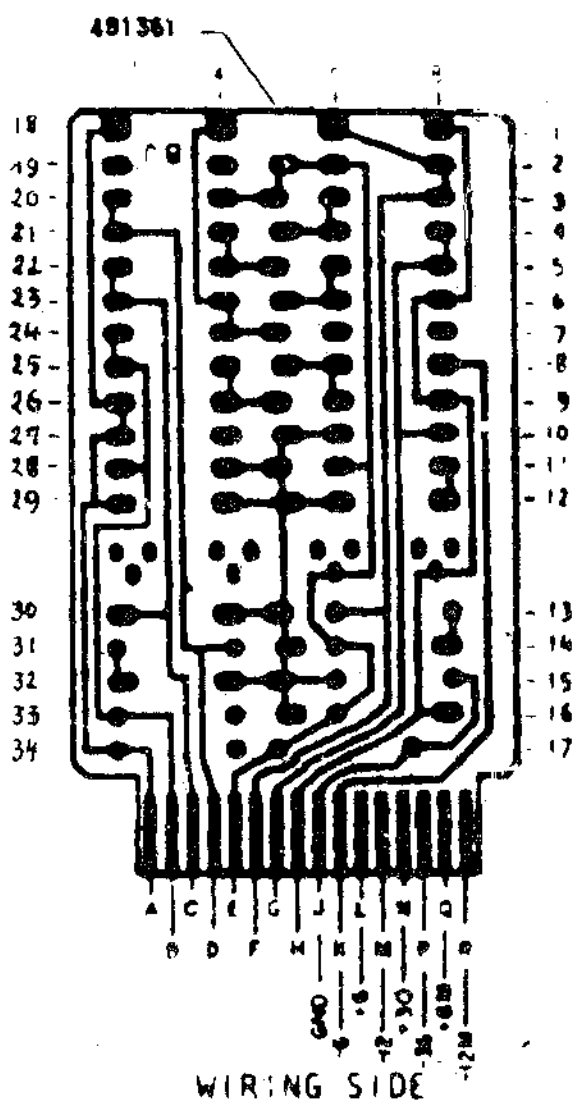
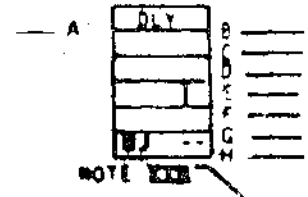
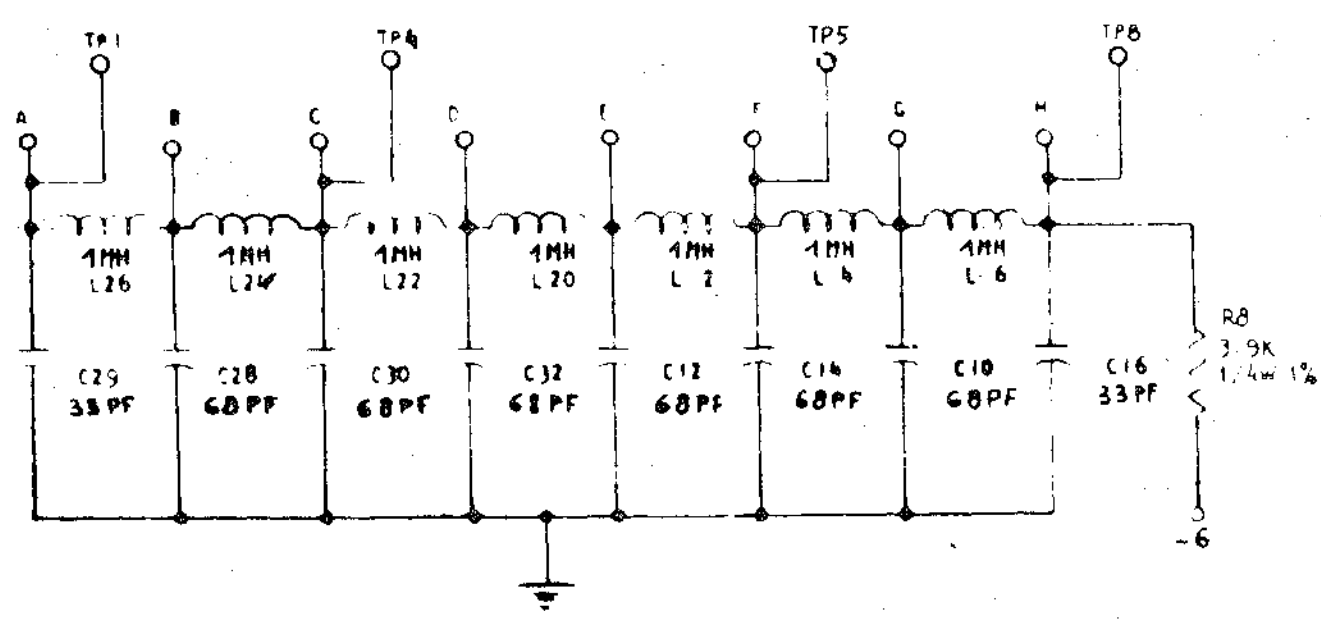
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR - ALLOY GATED S.P.D #2 (VM-3)			30.11.58	EC 107 784	20-6-61	EC 112148				
PROJ	SMS			19.9.60	JT 47 001	9-11-61	JT 48 790				
DESIGN	ECMEL			13.12.60	EC 110 872		JT 80876				
VERIF	CALQ			6-3-81	JT 47 622	28-11-62	EC 115866				
APPR	VERIF					17 APR 1963	JT 83721				

371041

371432

ALLOY - DELAY LINE LUMPED

371432
 CODE
 MATURE
 2-70 45



- X1 ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093495 AND 2093496
- X2 601200 BARE WIRE FOR ALL JUMPERS
- X3 ALL RESISTORS ARE 1/2 WATT AND 5% UNLESS OTHERWISE NOTED
- X4 "J" IN BLACK DENOTES JUMPER
- X5 PRINT ASN PART NO IN BLACK 1/8 HIGH AND 1/16 FROM THE LEFT HAND EDGE ON THE COMPONENT SIDE OF THE CARD BETWEEN POSITIONS 1 AND 8
- X6 CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891432

USE WITH SPECIFICATION 8010600

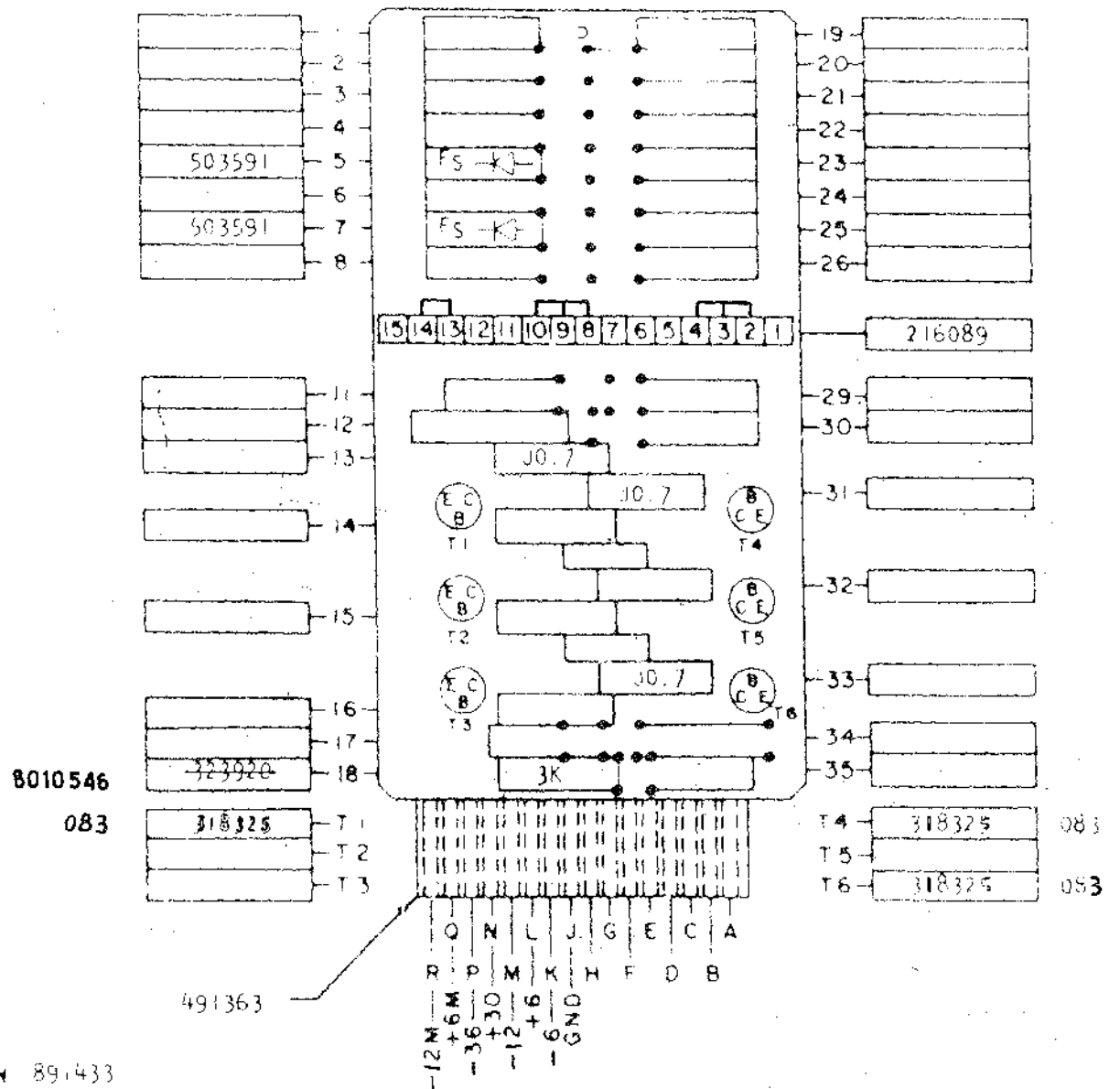
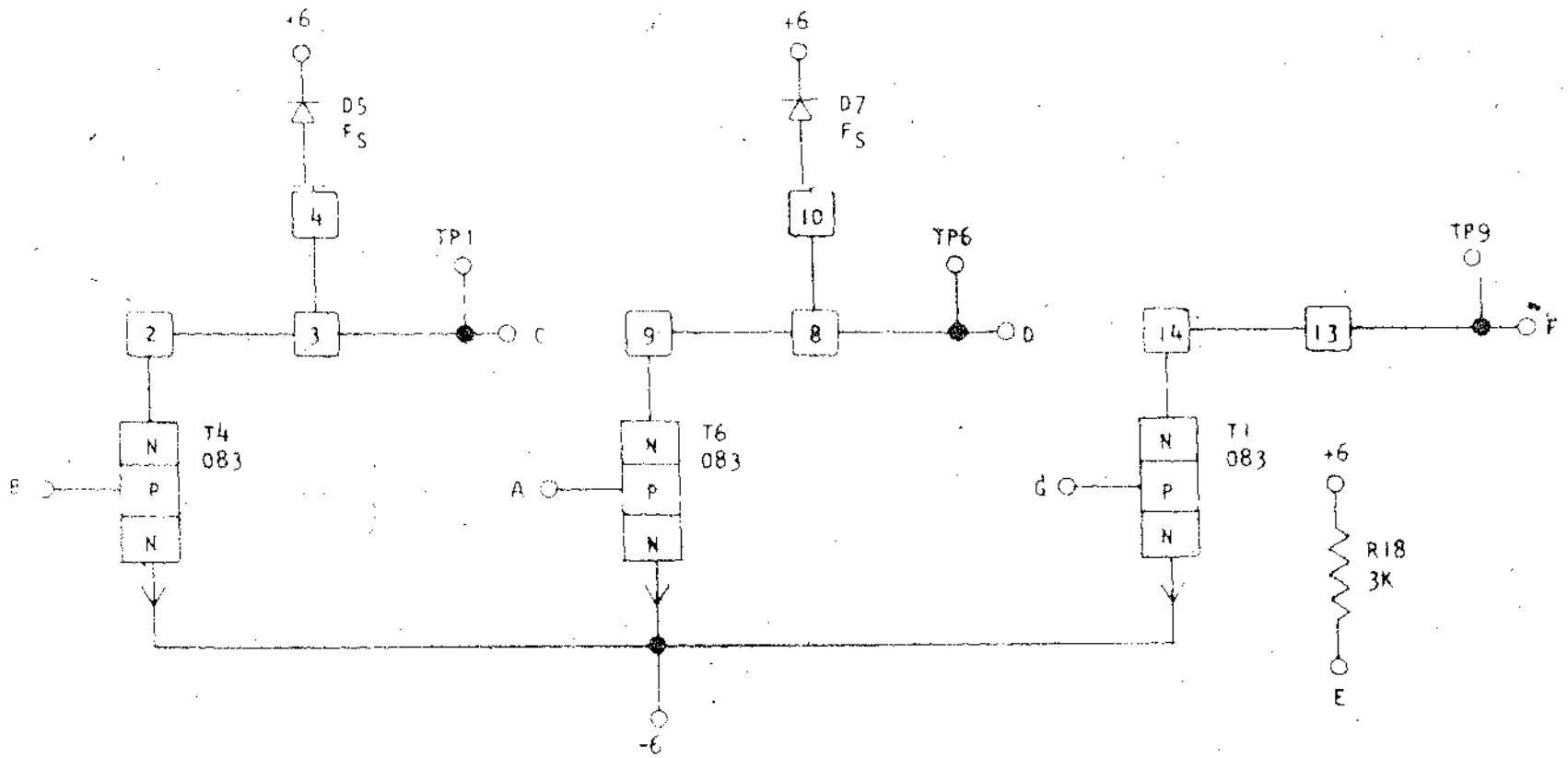
IBM		DATE	CHANG. NO	DATE	CHANG. NO	DATE	CHANG. NO	DATE	CHANG. NO
NOM	CARD ASH SYN ALLOY	7.1.58	C105881						
	DELAY LINE LUMPED	28.8.60	JT 47802						
PROJCT		10.3.61	EC 115893						
DESIGN		28.6.61	JT 48934						
APP		24.6.62	JT 81850						

371432

ALLOY-DRIVER, PROLAY ONE-READ GATE

371433
BKVZ

CODE
NATURE
2-7045



- NOTES
- I TEST TO ENGINEERING SPECIFICATION 891433
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084 692 2093495 AND 2093 496
 - III ALL RESISTORS ARE 1/2 WATT AND 15% UNLESS OTHERWISE NOTED
 - IV "0" IN BLOCK DENOTES BARE WIRE JUMPER. 491296

USE WITH SPECIFICATION 8010600

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR ALLOY DRIVER	274.60	EC 108823						
	PROLAY ONE READ GATE	2.11.60	JT 47005						
PROJET		16.6.60	EC 109191						
ESSIN	DJa 29-9-61	CALQ	ROA40 28-9-61	18-10-61	JT 48765				
VERIF	11-10-61	VERIF	CLM 10-10-61						

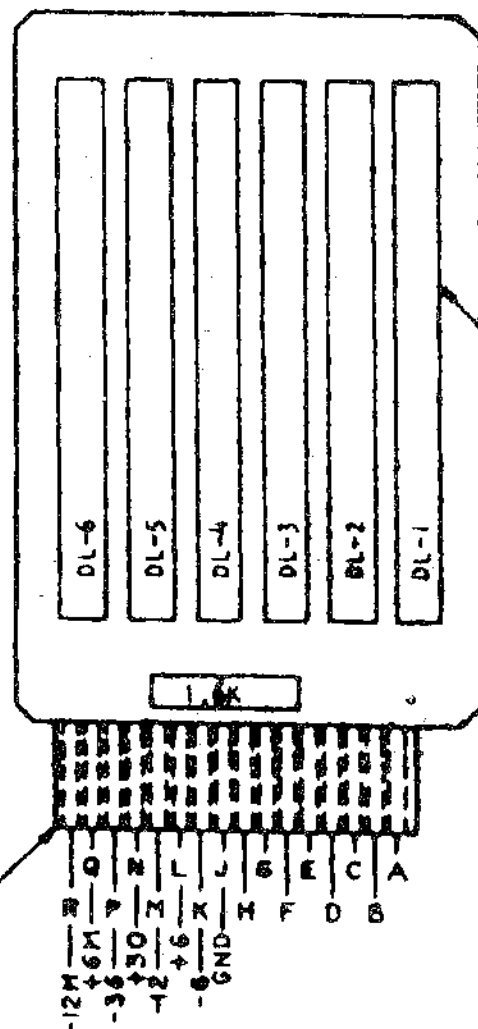
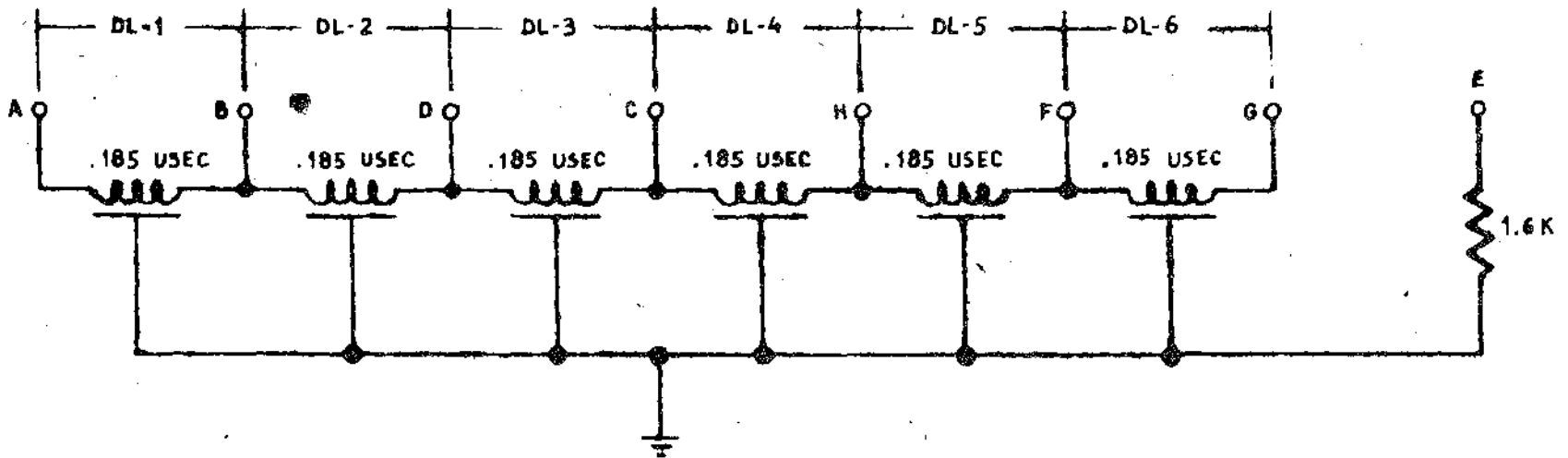
371433

ALLOY-DELAY LINE DISTRIBUTED

371439

BP --

CODE
NATURE
2.7045



529207 (6)

8 010 527 371439

491371
B

COMPONENT SIDE

NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891439
- II ASSEMBLE TO ENGINEERING SPECIFICATIONS 2 084 692 - 2 093 495 AND 2 093 496
- III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED

USE WITH SPECIFICATION 8 010 600

IBM				DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°
NOM	CARD ASM TSTR - ALLOY			16.9.59	EC 106942				
	DELAY LINE DISTRIBUTED			19.9.60	JT 47 GJ1				
PROJET		TYPE	SMS	28.8.60	EC 109919				
DESSIN		ECHEL		22.5.61	JT 47627				
VERIF		CALC	CLM 15.3.61						
APPR	BPL	30.3.61	VERIF	99	30.3.61				

371439

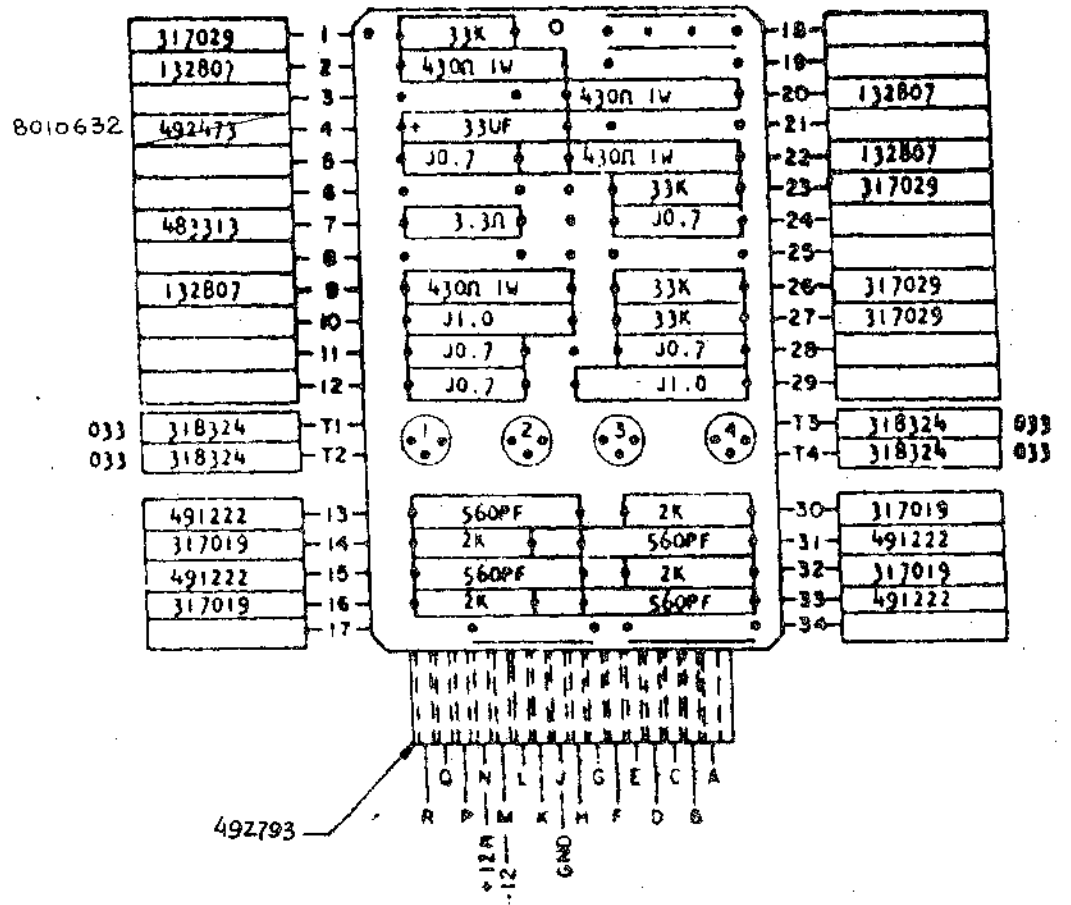
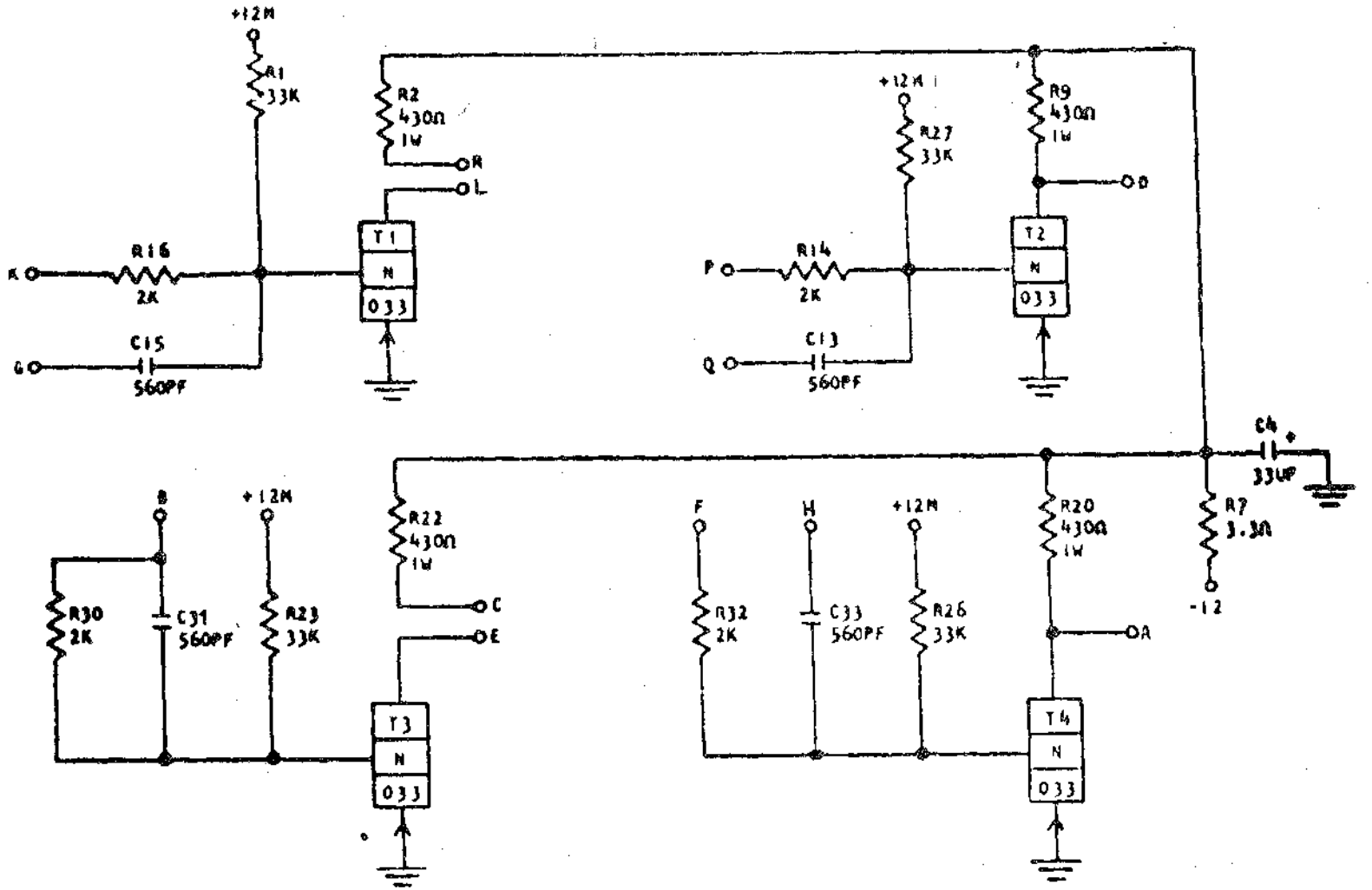
371487

MH--

CODE
NATURE
2.7045

371487

INVERTER, POWER-PNP



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891487
- II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093495 AND 2093496
- III ALL RESISTORS ARE 1/2 WATT AND 5% UNLESS OTHERWISE NOTED
- IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296

HOLE PATTERN
491329

USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR INVERTER, POWER - PNP			11-12-59	EC 107842				
PROJET		TYPE	SMS	18-10-61	JT 47023				
DESSIN	20	ECHEL.		29-1-62	JT 80846				
VERIF.		CALQ.		29-4-63	EC 116190				
APPR.		VERIF.		25-6-63	JT 83728				

371487

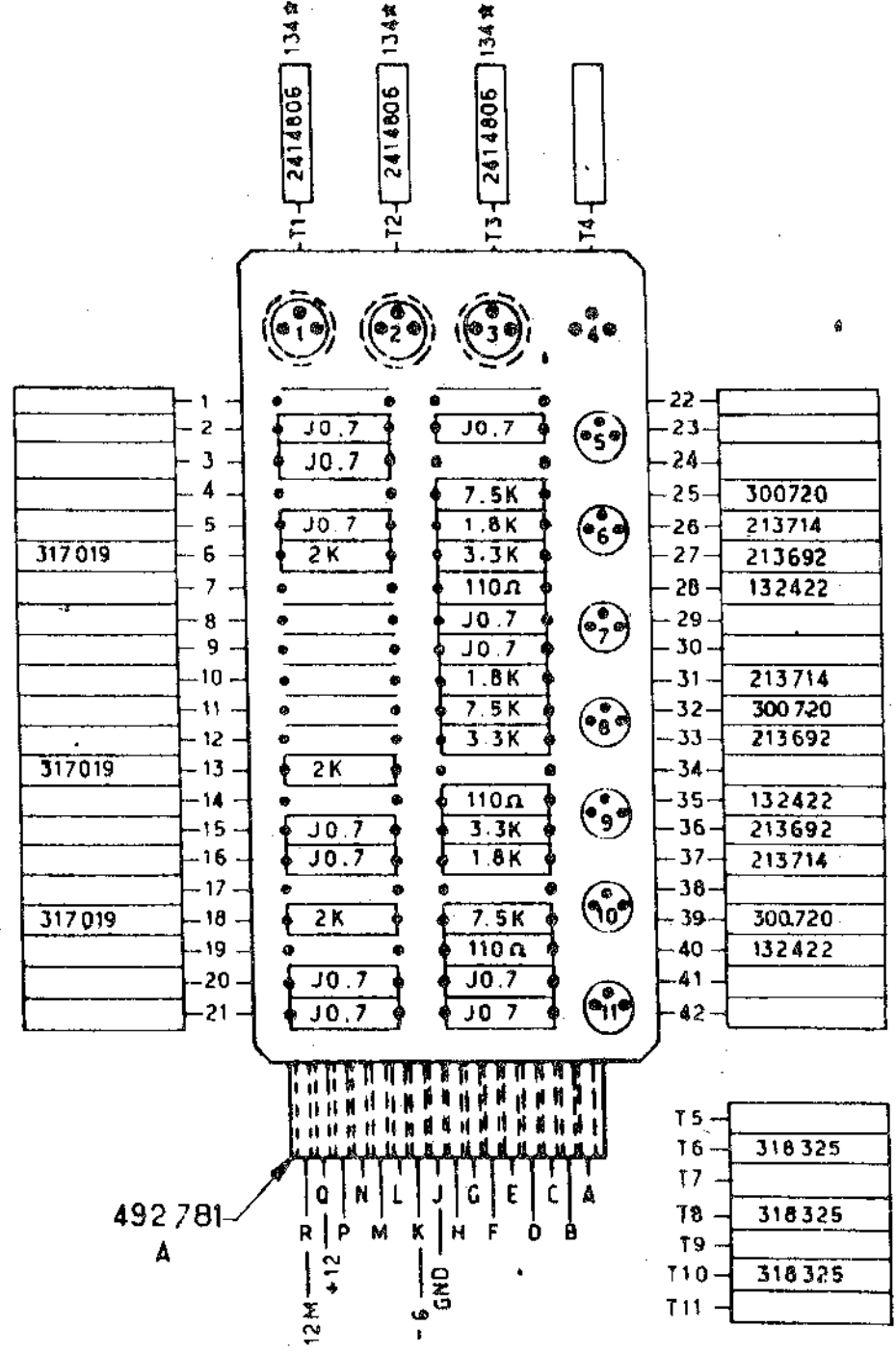
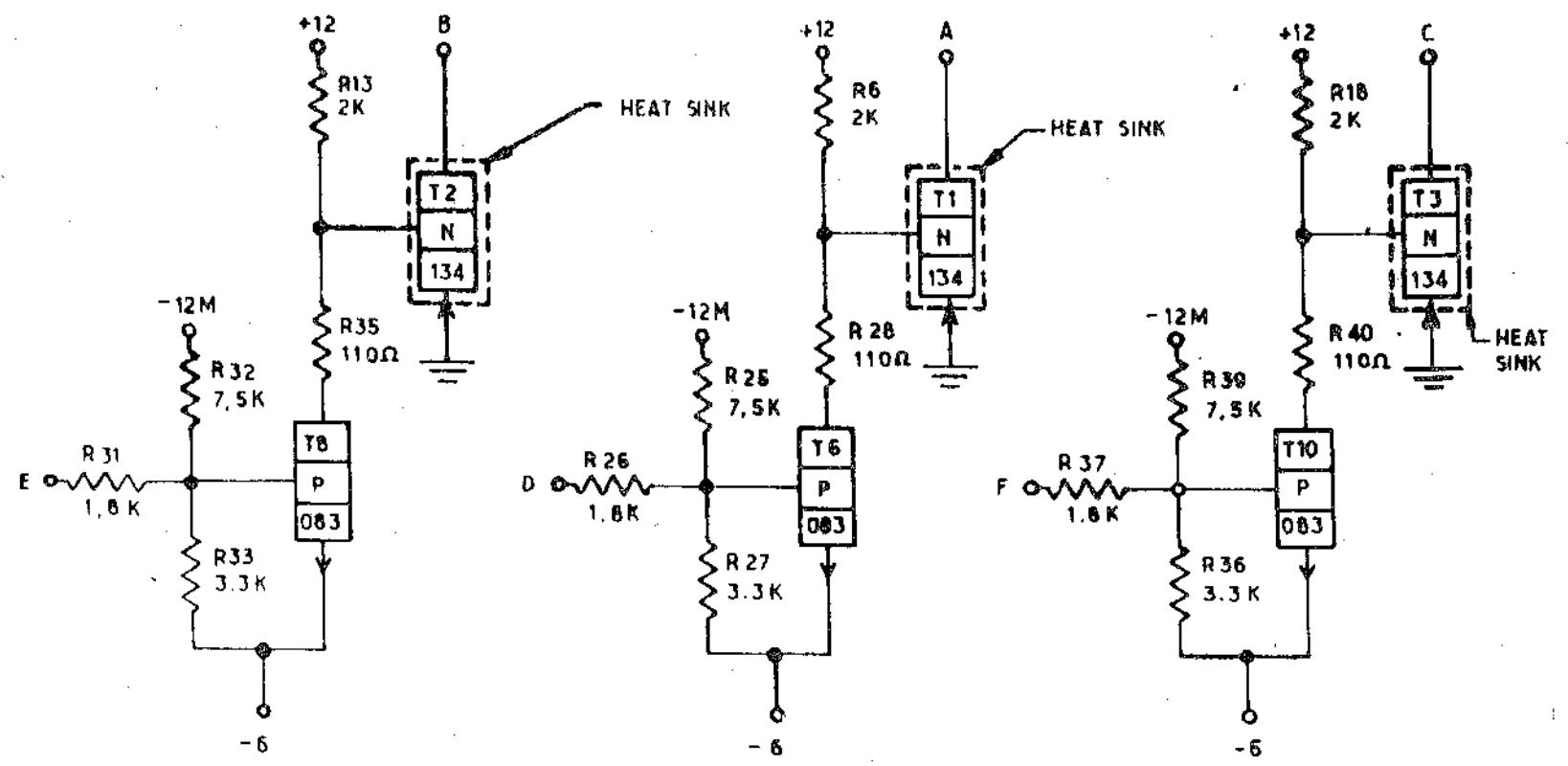
371497

MD--

CODE
NATURE
2-7045

371497

DRIVERS, FUNCTIONAL COIL



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891497.
 - XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093495 AND 2093496.
 - XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED.
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296.
 - XIV HEAT SINK 492434 OR 492435 TO BE SELECTED AS REQUIRED

HOLE PATTERN
493474

USE WITH SPECIFICATION 8010600

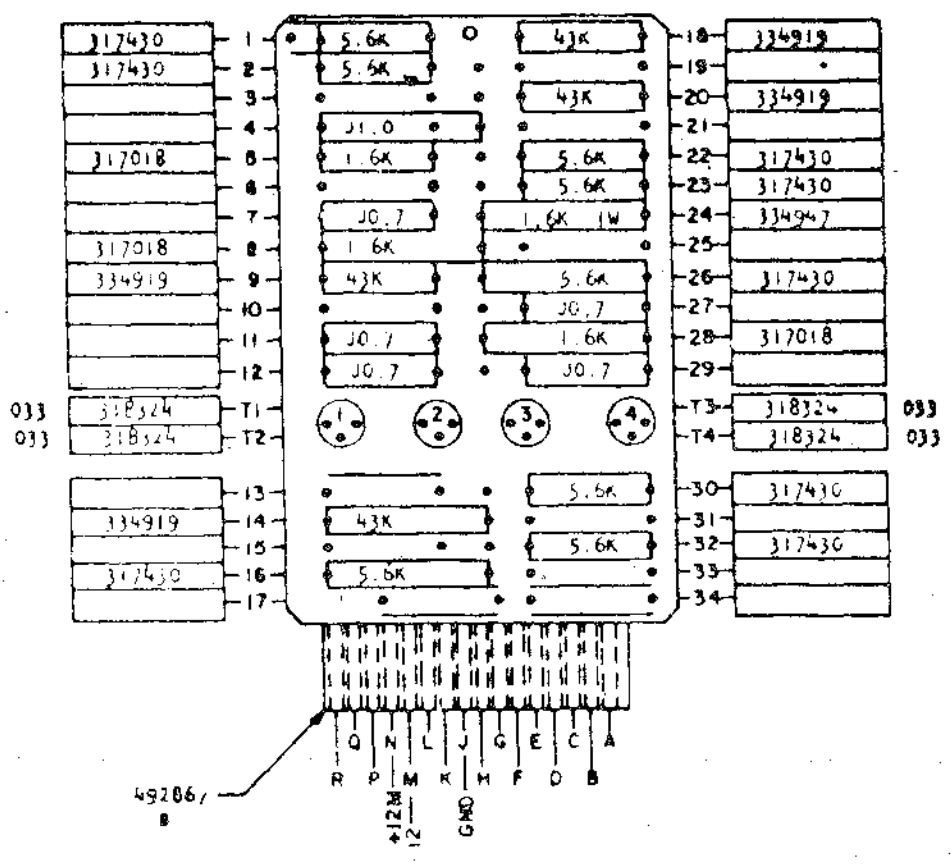
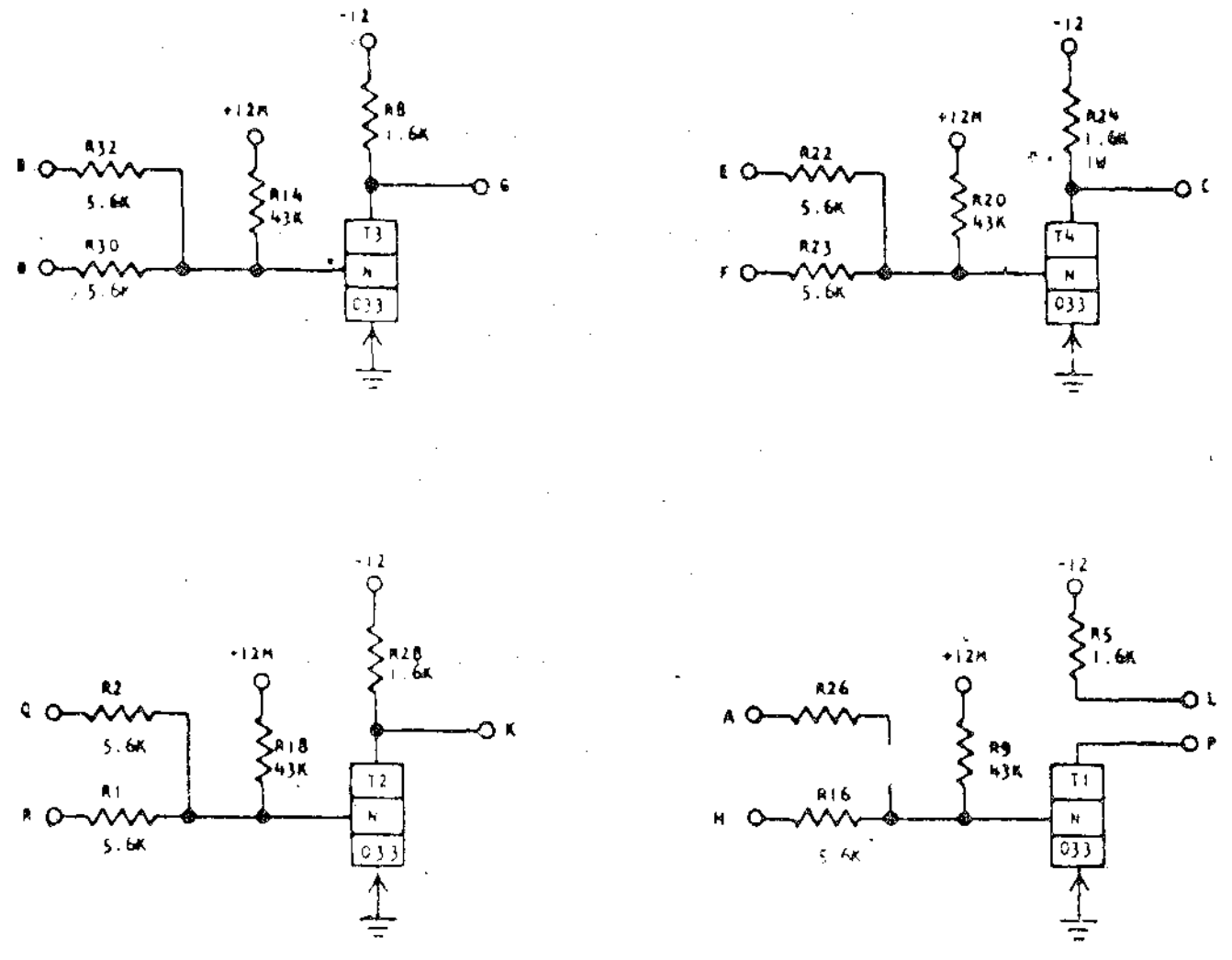
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR -			5.10.59	EC:106943	19.12.63	EC:117838				
	DRIVERS FUNCTIONAL COIL			7.4.61	JT:47015	5.8.64	JT:85764				
PROJET		TYPE	SMS	29.1.62	JT:80876						
DESSIN	RD40	22.5.64	ECHEL	27.4.62	EC:112757						
VERIF	R.D.	22.5.64	CALQ.								

371497

371661
MX--

371661

CTRL INVERTER "N" 2 WAY



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891661
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692-2093495 AND 2093496
 - III ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED
 - IV ' ' IN BLOCK DENOTES BARE WIRE JUMPER 491296

PATTERN 491329

USE WITH SPECIFICATION A010600

ITEM	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
ARM ASM TSTR CTRL -	12 10 60	1L 110150	23 5 62	EC 113942				
INVERTER "N" 2 WAY	24 2 61	JT 47013	20 9 62	JT 82893				
	25 1 62	JT 80876						

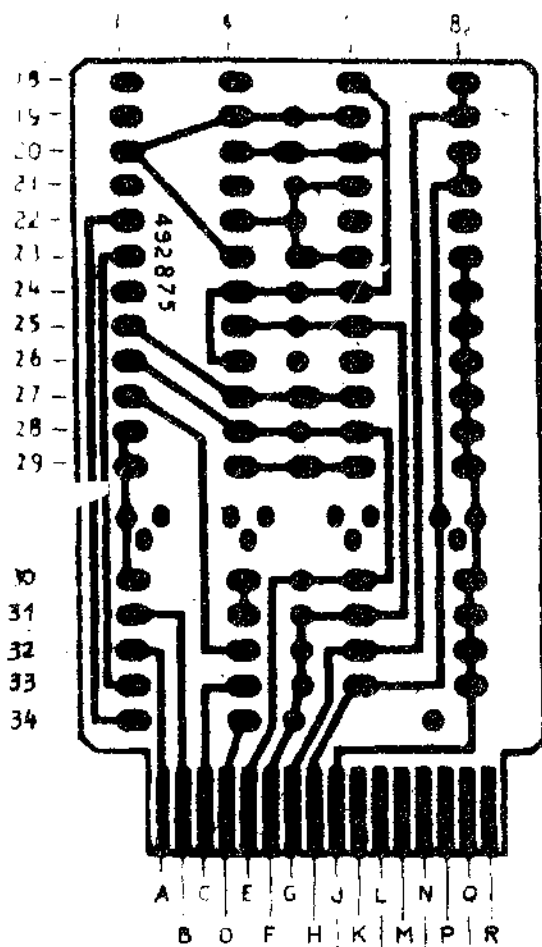
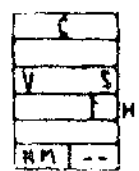
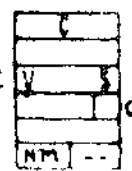
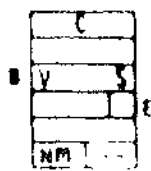
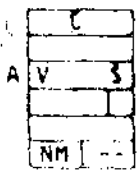
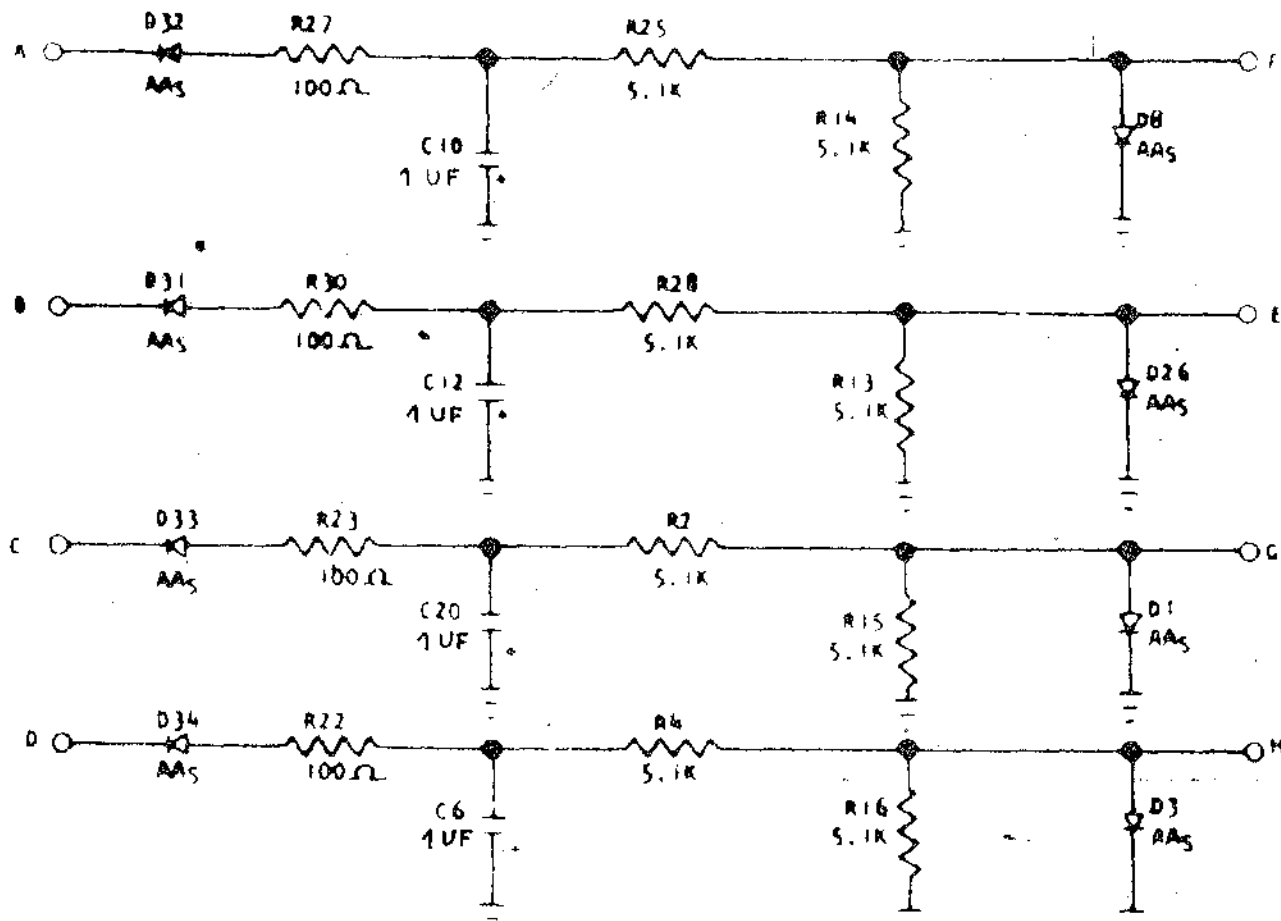
371661

371 666

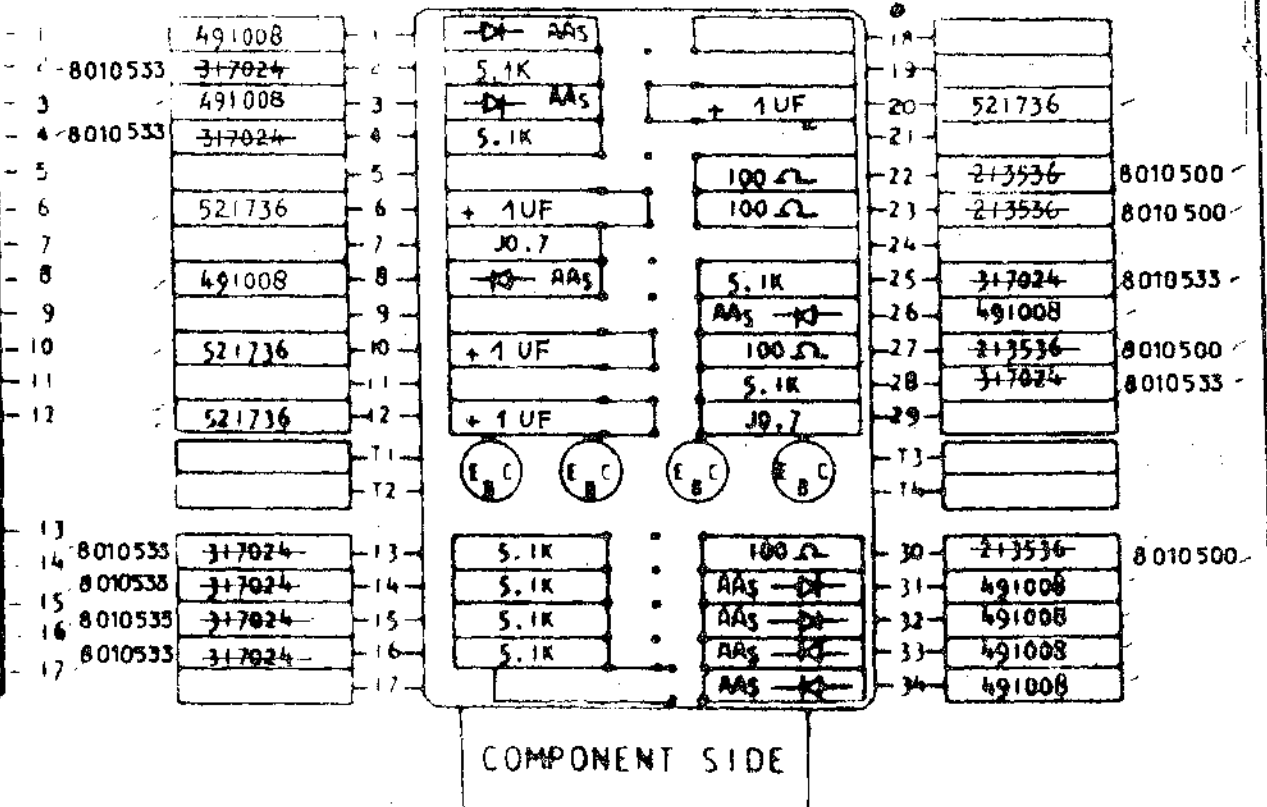
CODE
NATURE
2.7045

CTRL-INTEGRATOR, DIODE INPUT-NEG

371666



WIRING SIDE



COMPONENT SIDE

NOTES

- I ASSEMBLE TO ENGINEERING SPECIFICATION 2084 692 2093 495 AND 2093 496
- II 491296 BARE WIRE FOR ALL JUMPERS
- III ALL RESISTORS ARE 1/2 WATT AND .5% UNLESS OTHERWISE NOTED
- IV 1UF IN BLOCK DENOTES JUMPER
- V TEST TO ENGINEERING SPECIFICATION 891666

USE WITH SPECIFICATION 8010600

ISM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NCM	CARD ASM TSTR_CTRL	17.8.59	EC 106788						
	INTEGRATOR DIODE INPUT-NEG	7.4.61	JT 77015						
PROJET	TYPE SMS	27.2.60	EC 108350						
DESSIN	REHMI	3.5.62	JT 81843						
VERIF	1g 361								
APP									

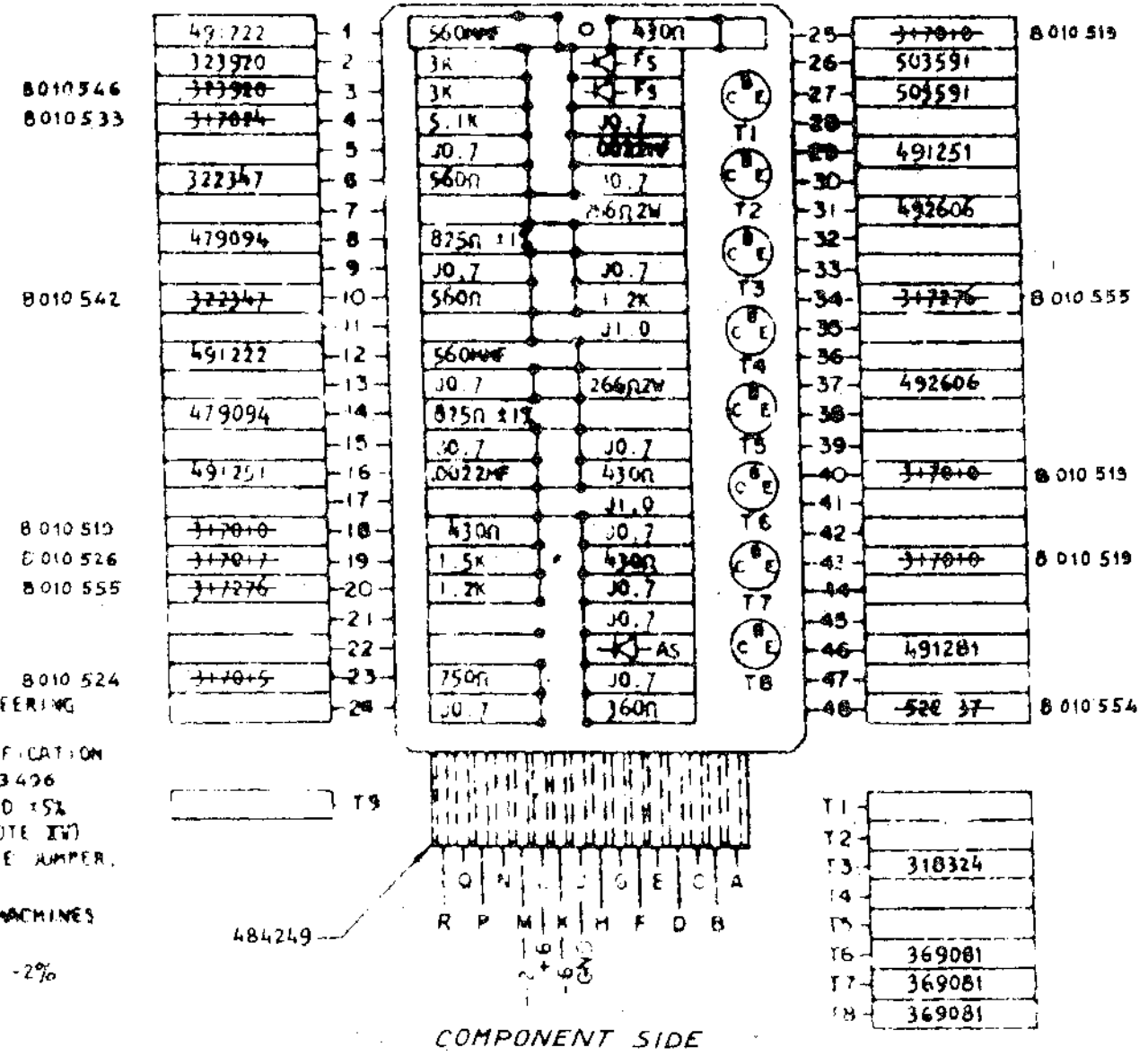
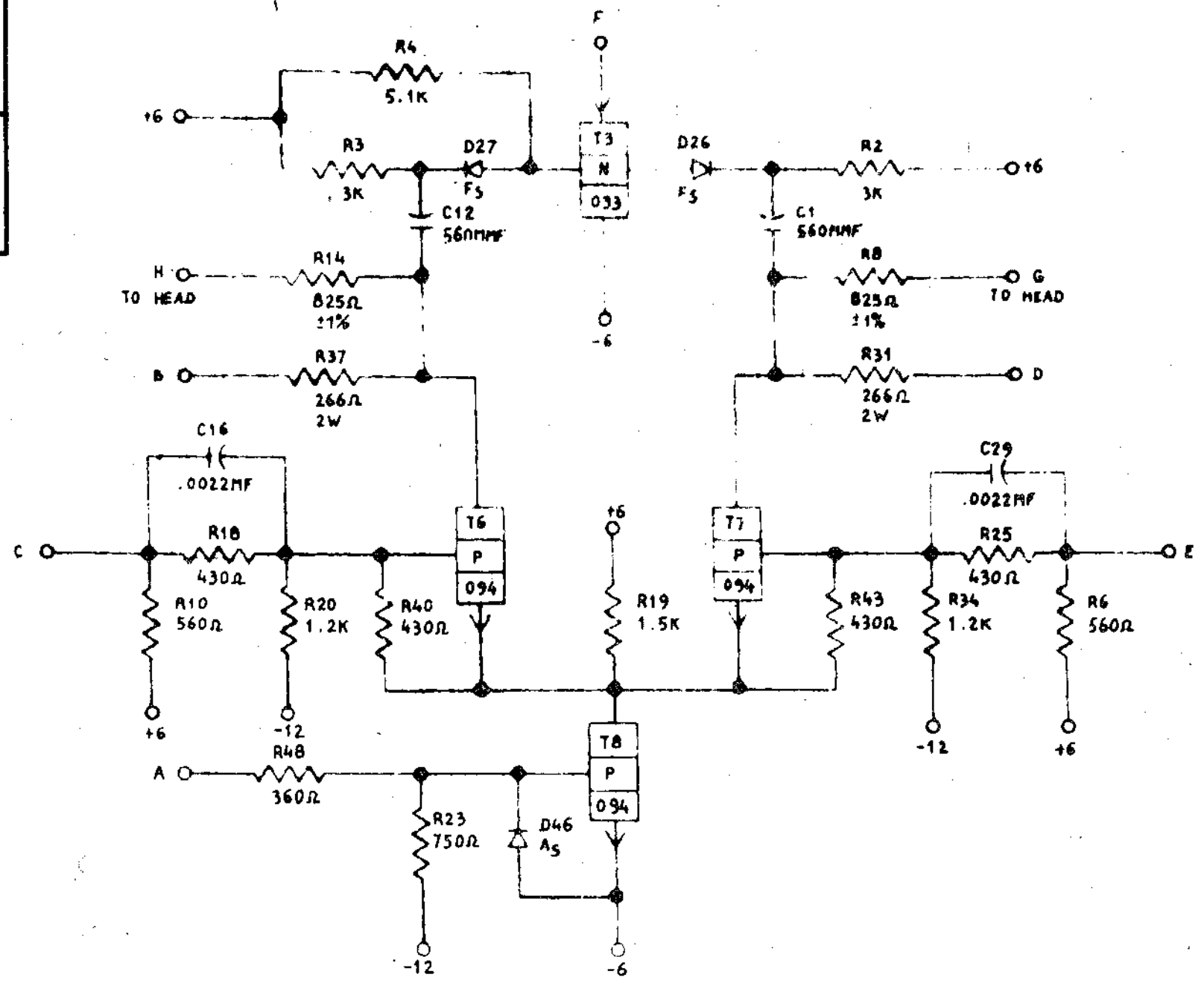
371 666

371674
LZ--

CODE
NATURE
2.7045

371674

ALLOY-HEAD DRIVER AND ECHO PULSE AMPLIFIER



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891674.
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093495 AND 2093496
 - III ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED (AS NOTE IV)
 - IV "P" IN BLOCK DENOTES BARE WIRE JUMPER, 491296
 - V RESTRICTED TO 729 XI AND IX MACHINES FOR APPLICATION REASONS
 - VI ALL 2 WATT RESISTORS ARE +1% -2%

USE WITH SPECIFICATION 8010600

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASS TSTR - ALLOY	18.12.59	EC 107934						
HD DR AND ECHO PULSE AMPLIFIER		19.9.60	JT 47001						
PROJET		28.12.60	JT47995						
DESSIN		9.2.61	EC 111235						
VERIF		28.6.61	JT 48332						
APPR									

371674

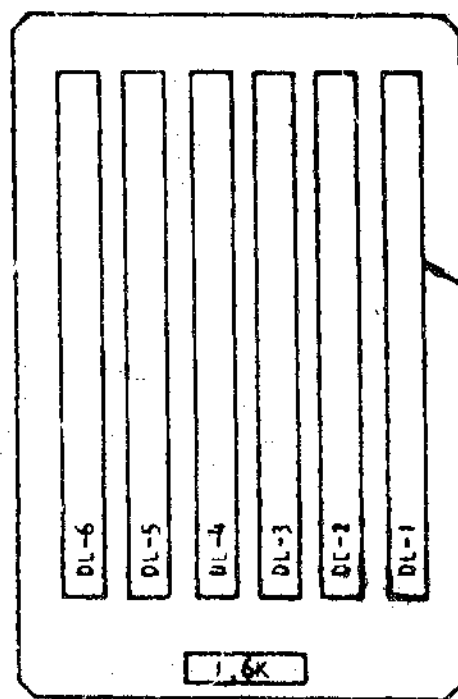
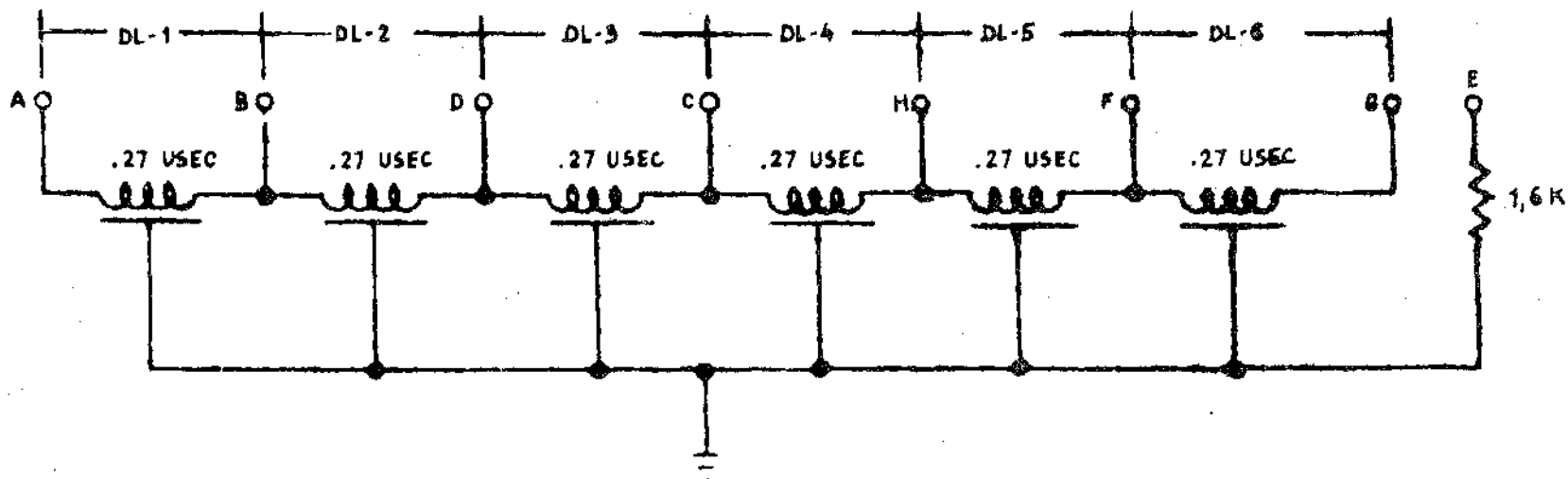
371749

RP

CODE
NATURE
2.7.045

ALLOY-DELAY LINE DISTRIBUTED NUMBER 2

371749



8 010 527 3-7048 -

491371

12M
+6M
-36
+30
-12
+6
GND
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891749
- II ASSEMBLE TO ENGINEERING SPECIFICATIONS 2 084 692 - 2 093 495 AND 2 093 495
- III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED

COMPONENT SIDE

USE WITH SPECIFICATION 8 010 600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR-ALLOY DELAY			30.11.59	EC 107826				
LINE	DISTRIBUTED NUMBER 2			10.11.60	JT 47006				
PROJET		TYPE	SMS	28.9.60	FC 109919				
DESSIN		ECHEL		22.3.61	JT 47627				
VERIF		CALC	C.L.M 15.9.61						
APPR	B.P.L. 30.3.61	VERIF	925 30.3.61						

371749

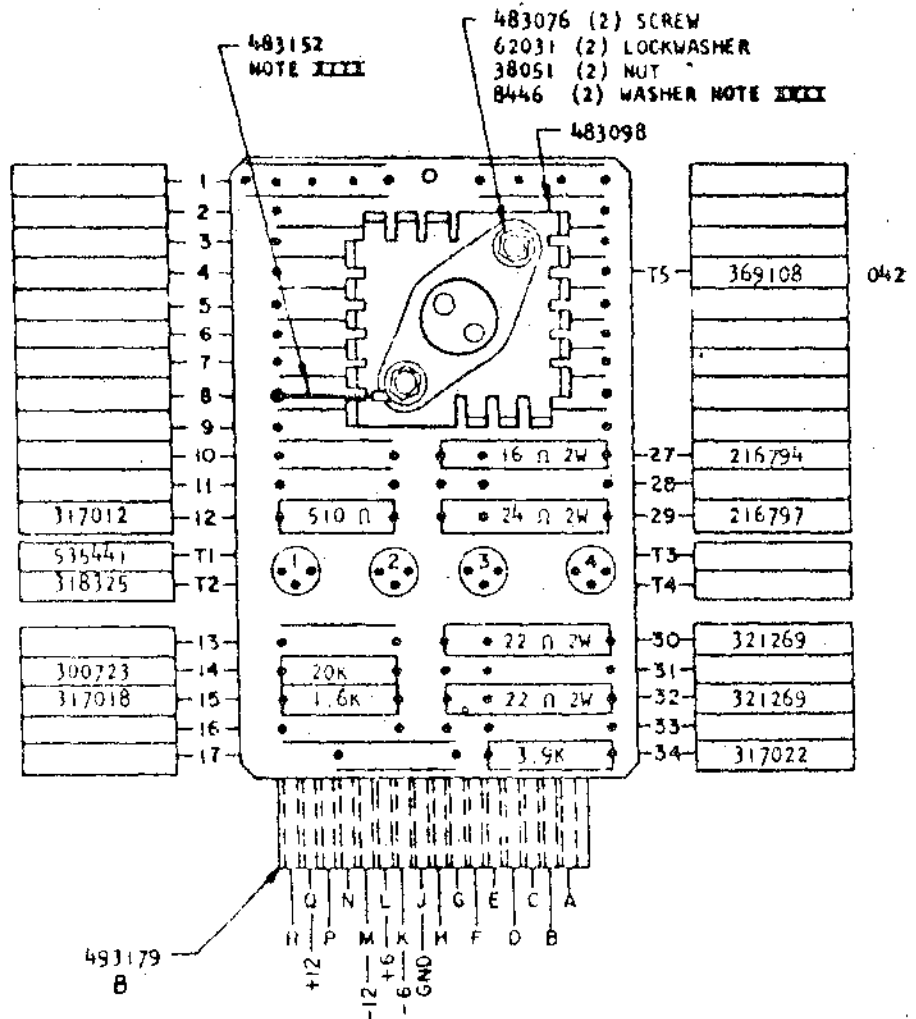
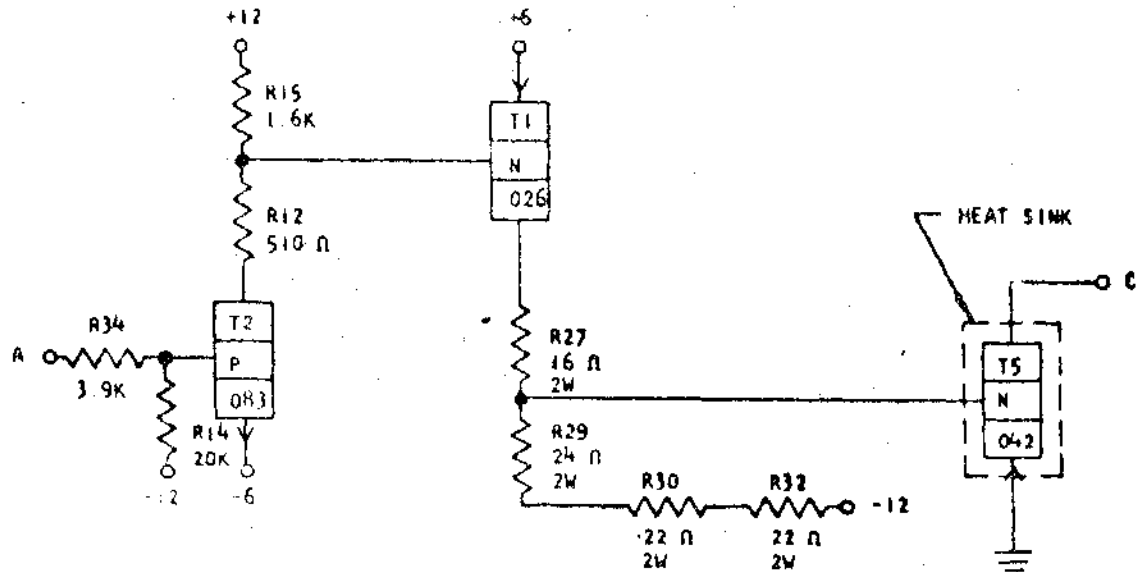
371880

371880

ALLOY DRIVER RELAY 2.5 AMP
MOUNT CARD ON ONE INCH CENTERS NOTE XV

CODE NATURE
2-7045

WB--



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891880
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692-2093495 AND 2093496
- XII ALL RESISTORS ARE 1/2 WATT AND 15% UNLESS OTHERWISE NOTED
- XIII CASE IS ELECTRICALLY CONNECTED TO COLLECTOR, CONNECTION COMPLETED THROUGH JUMPER
- * XIV
- XV THE MAXIMUM HEIGHT THAT COMPONENTS 026 MAY PROJECT ABOVE THE SURFACE OF THE 083 CARD WILL BE .672
- * XVI DO NOT CRIMP TRANSISTOR LEADS. SOLDER TO BOARD AFTER CLEANING.
- XVII WASHER 8446 TO BE PLACED BETWEEN HEAT SINK AND CARD SURFACE.

HOLE PATTERN 491329

USE WITH SPECIFICATION 8010800

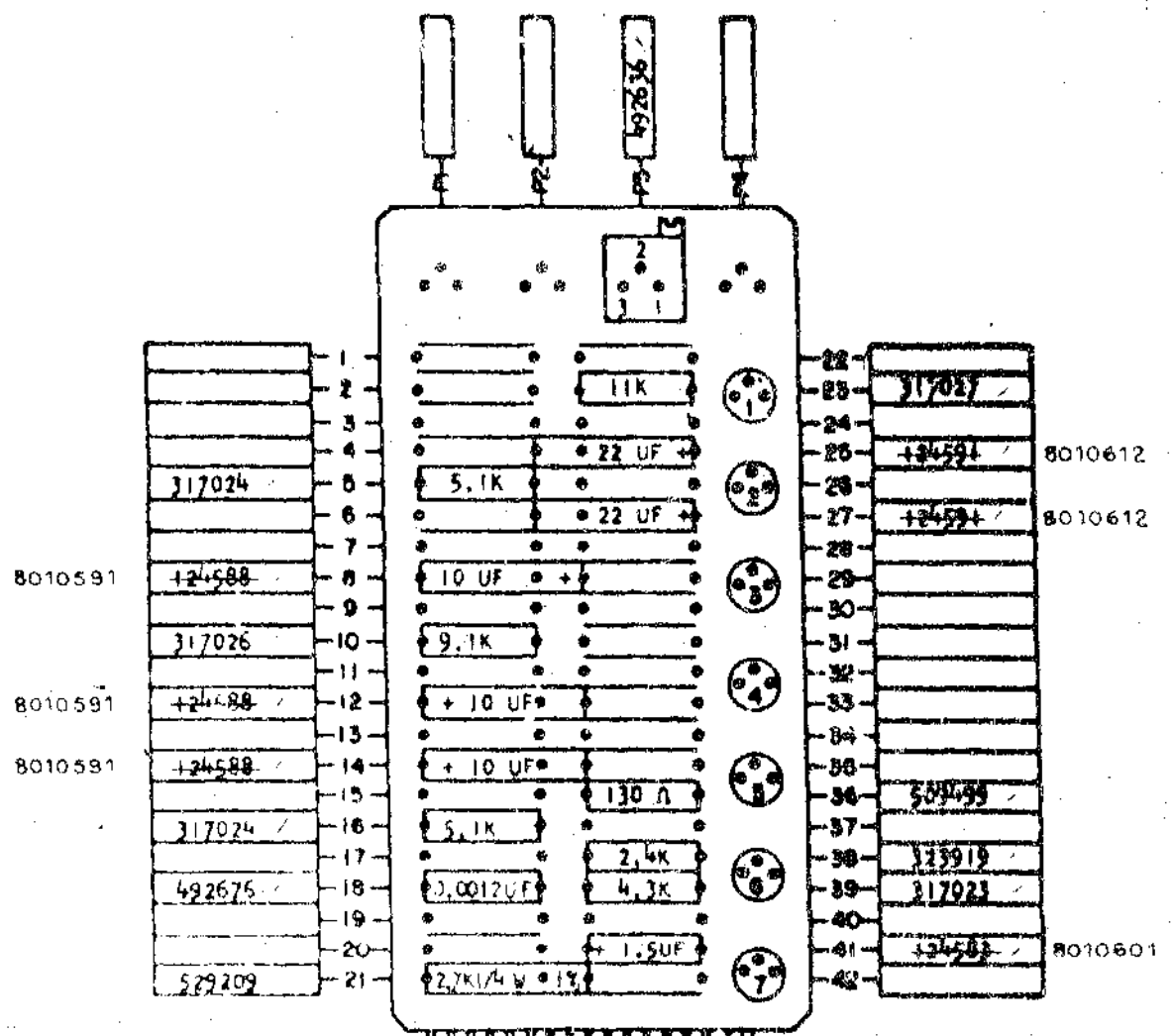
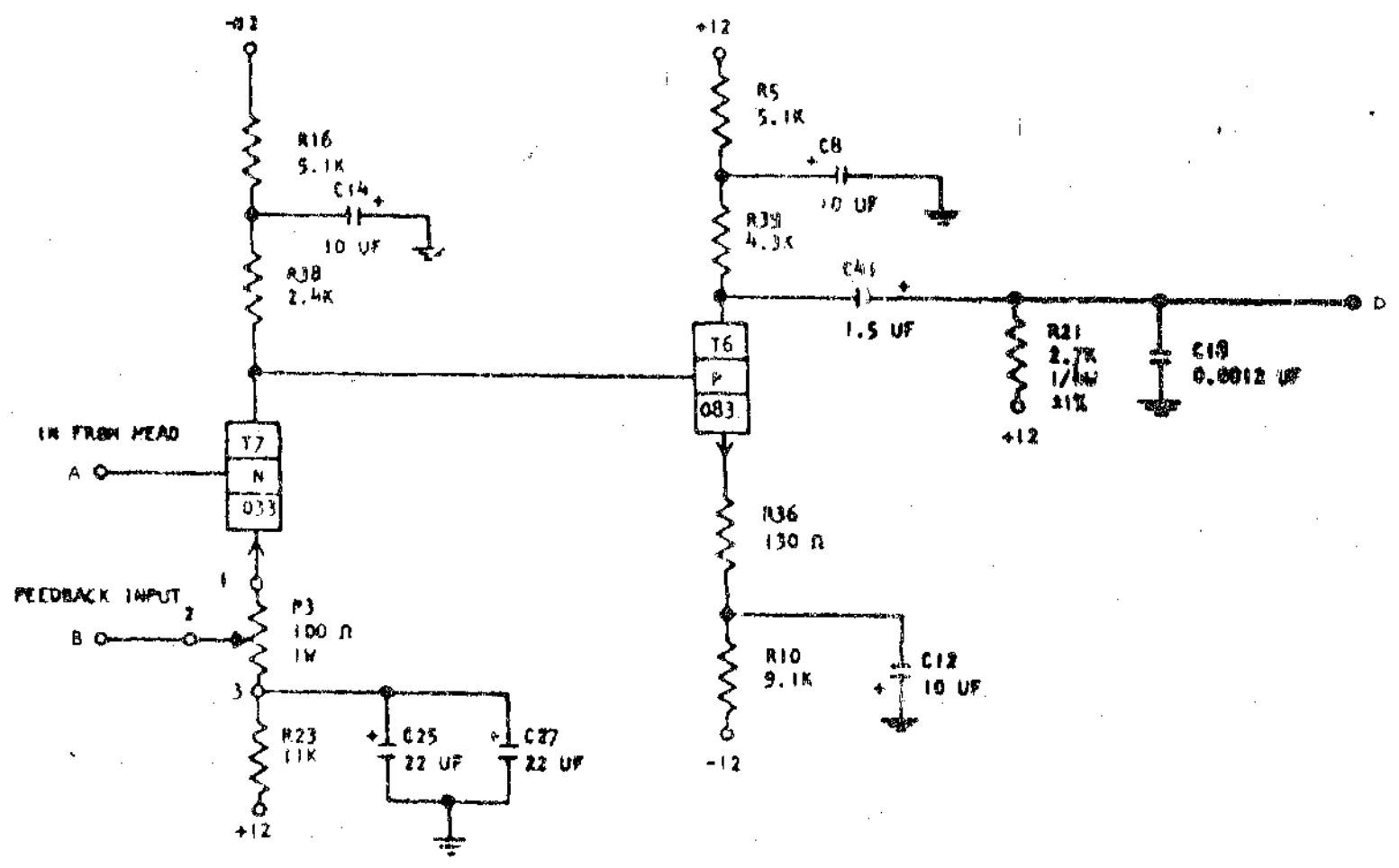
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM.	CARD ASM TSTR - ALLOY-DRIVER RELAY 2.5 AMP			30.8.60	EC 108999	28.3.62	JT.81888	20.2.63	EC 116128		
PROJET		TYPE	SMS	7.4.61	JT.47015	22.5.62	JT.81849	13.5.63	JT.83748		
DESSIN	JF.6.9.62	ECHEL		21.6.61	EC.111824	25.4.62	EC.113674	24.2.64	EC.119304		
VERIF		CALQ		18.10.61	JT.48842	20.9.62	JT.82895	17.8.64	JT.85974		
APPR		VERIF		29.1.62	JT.80876						

371880

371925
A F A

371925

ALLOY-PRE AMP NO 1, MAGNETIC TAPE



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
- II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 2093495 AND 2093496
- III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
- IV POTENTIOMETER 492636 MUST NOT BE SUBJECTED TO ANY LIQUIDS

T1	
T2	
T3	
T4	
T5	
T6	318225 083
T7	318224 039

HOLE PATTERN 493474

USE WITH SPECIFICATION # 010600

IRM		DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°
NOM	CARD ASM INSTR ALLOY	22 2 60	EC 108355	1 11 61	EC 112432				
	PREAMP NO 1, MAGNETIC TAPE	9 12 60	JT 47009	14 3 62	JT 80889				
PROJ									
DESSIN	N Rco 3 11 62	23 3 61	EC 111378	6 8 62	EC 114712				
VERIF		22 6 61	JT 48930	27 10 61	JT 82868				
APPR									

371925

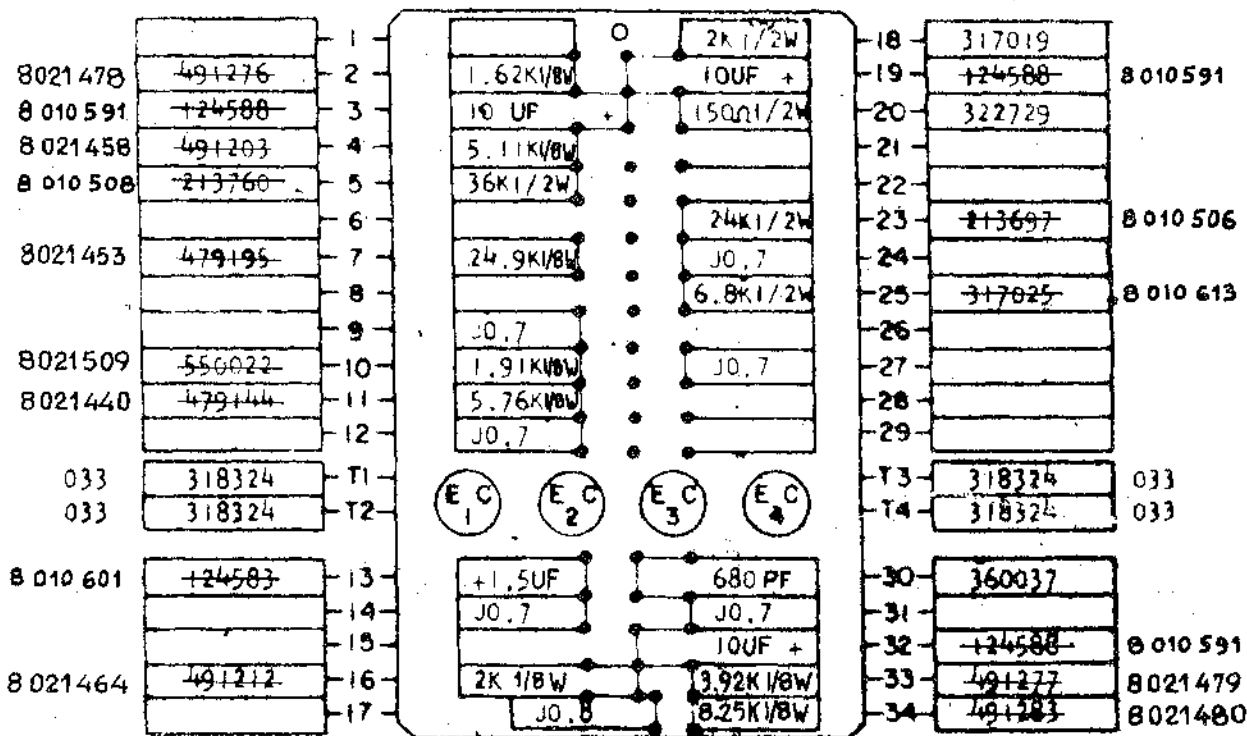
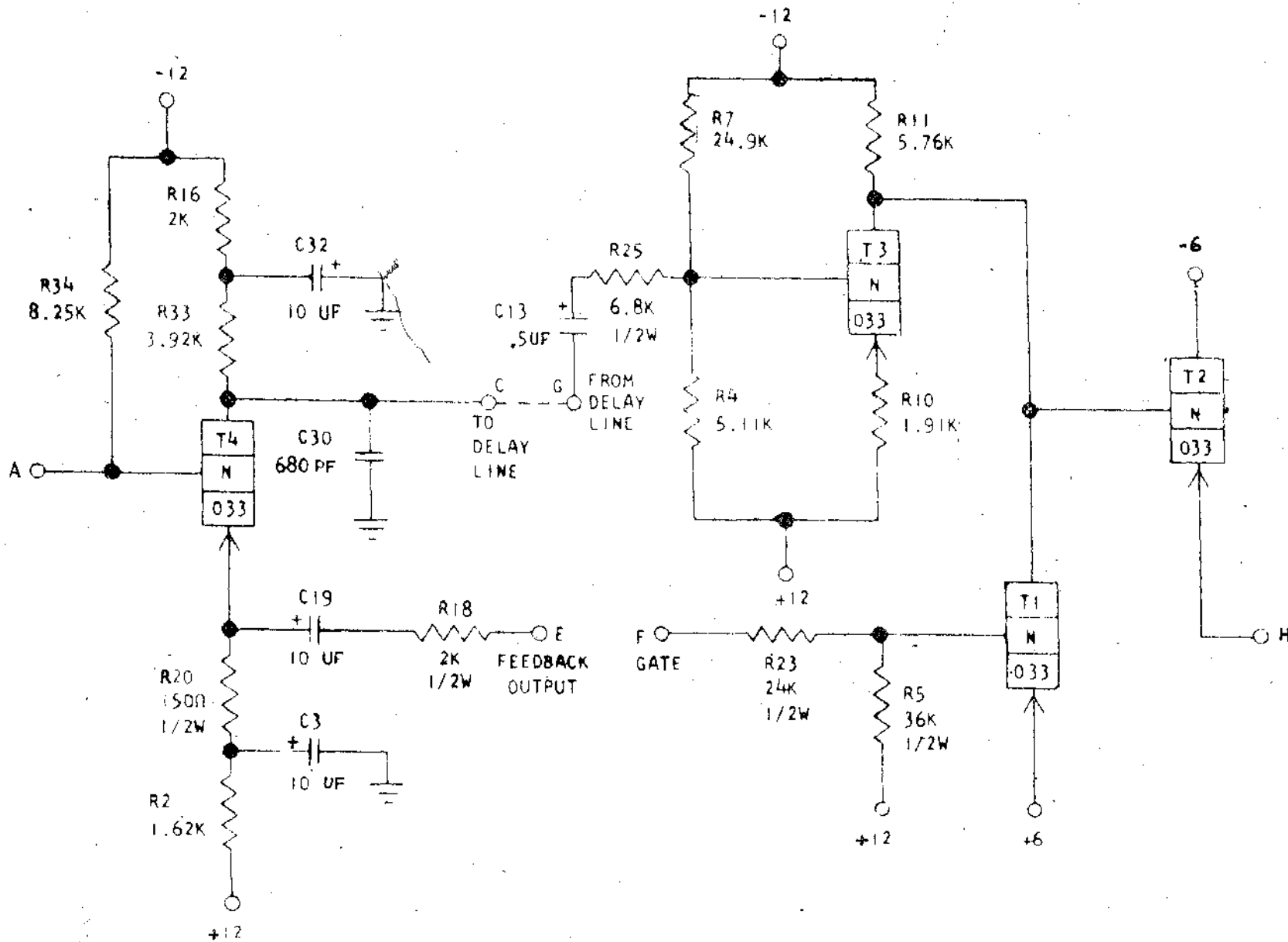
371926

ABK-

CODE NATURE 2-7045

371926

ALLOY - PRE AMP NO. 2 MAGNETIC TAPE



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 - 2093495 AND 2093496.
- XII ALL RESISTORS ARE 1/8 WATT AND ±1% UNLESS OTHERWISE NOTED (AS NOTE XIX)
- XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296
- XIV ALL 1/2 WATT RESISTORS ARE ±5%

USE WITH SPECIFICATION 8010600

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR. ALLOY	3.3.60	EC 108533						
	PRE AMP NO 2 MAG TAPE	19.9.60	JT 47001						
PROJET	TYPE SMS	21.2.61	EC 111085						
DESSIN	ECHEI	20.6.61	JT 48929						
VERIF.	GALQ	20.11.61	JT80851						
APPR.	VERIF. G.M. 13.6.61								

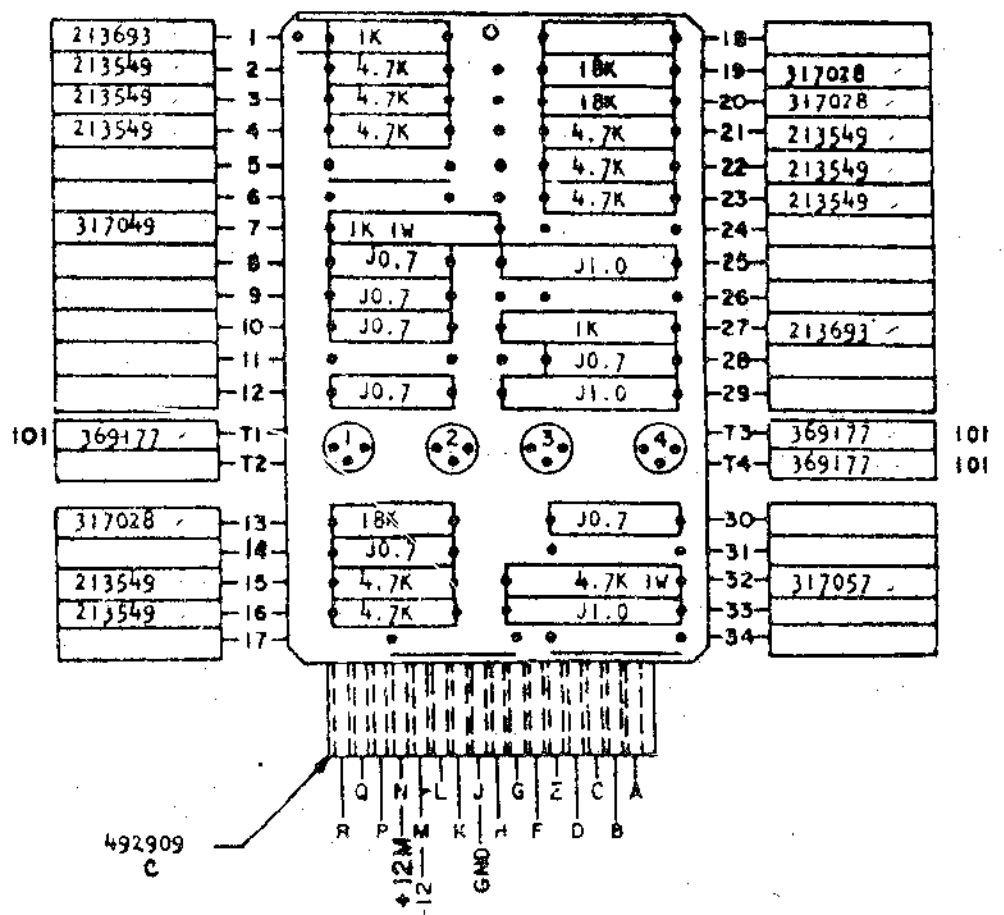
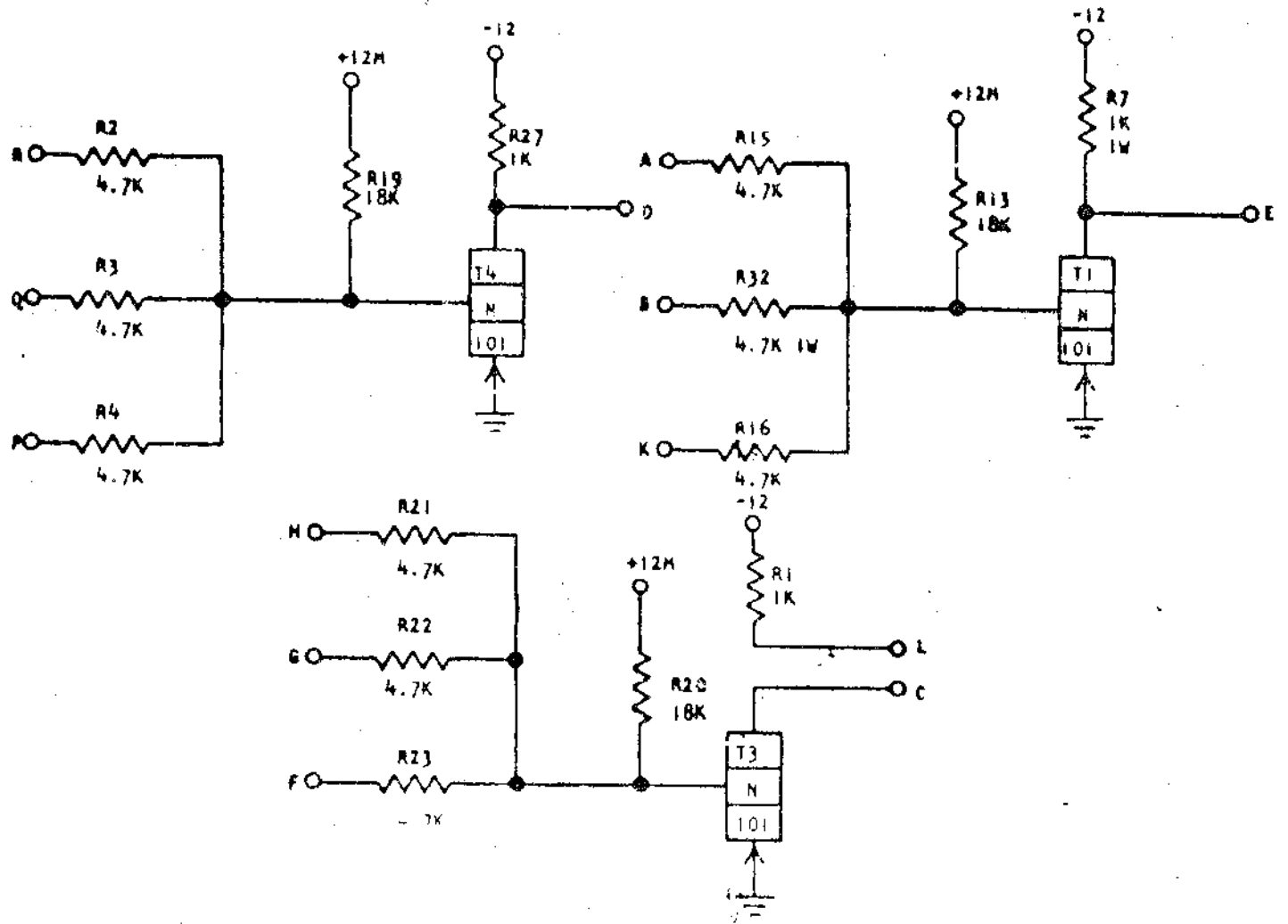
371926

371951
DAC-

CODE
NATURE
2-7045

371951

SDTRL - 3 WAY INVERTER NUMBER 2



- NOTES**
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892367
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692-2093495 AND 2093496
 - III ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED
 - IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
 - V POSITIONS T1, T3, T4 ARE TO-18 TRANSISTORS AND MAY BE MOUNTED IN .100 OR .200 PIN CIRCLE HOLES. USE TRANSISTOR SPACER 483070 FOR .200 PIN CIRCLE MOUNTING.

HOLE PATTERN 491529

USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR - SDTRL - 3			21.6.60	EC 108572	23.5.62	EC 113942				
	WAY INVERTER NUMBER 2			24.2.61	JT 47013	20.9.62	JT 82893				
PROJET		TYPE	SMS	25.5.61	EC 112019	11.8.62	EC 113628				
DESSIN	TECO	4.9.62	CHMEL	21-8-61	JT 48833	27 NOV. 1962	JT 82869				
VERIF		CALQ									
APPR		VERIF									

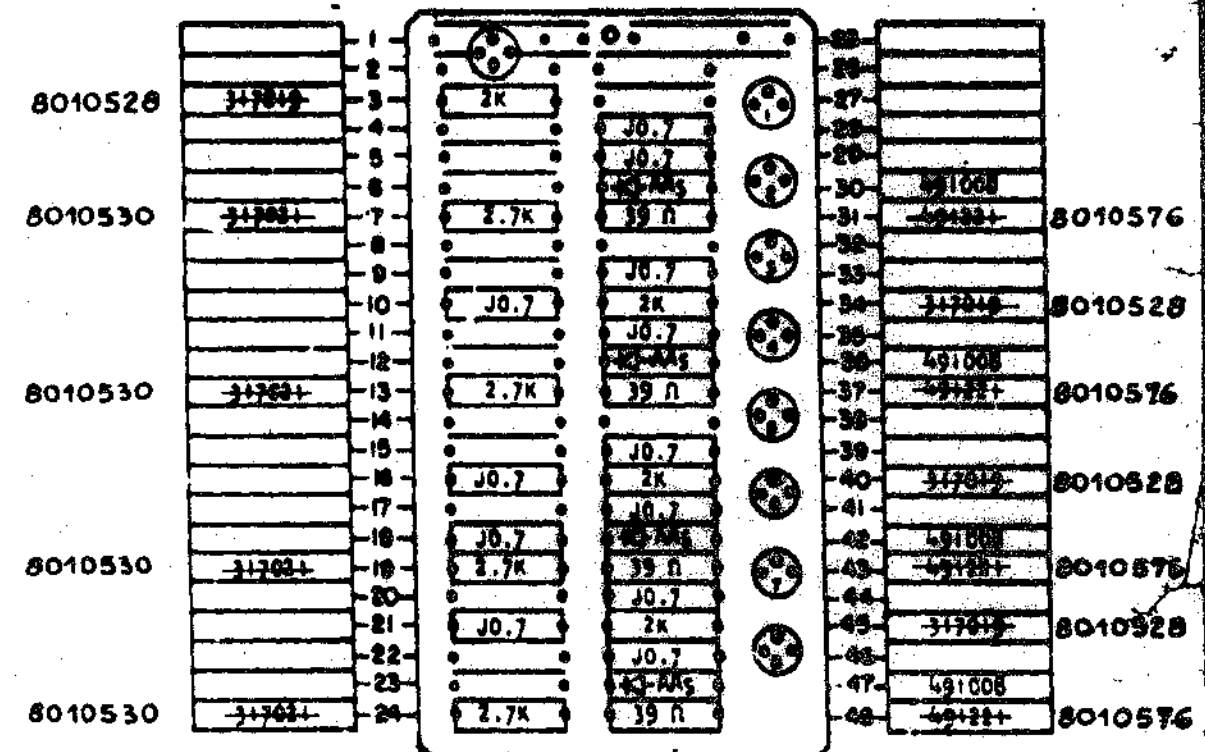
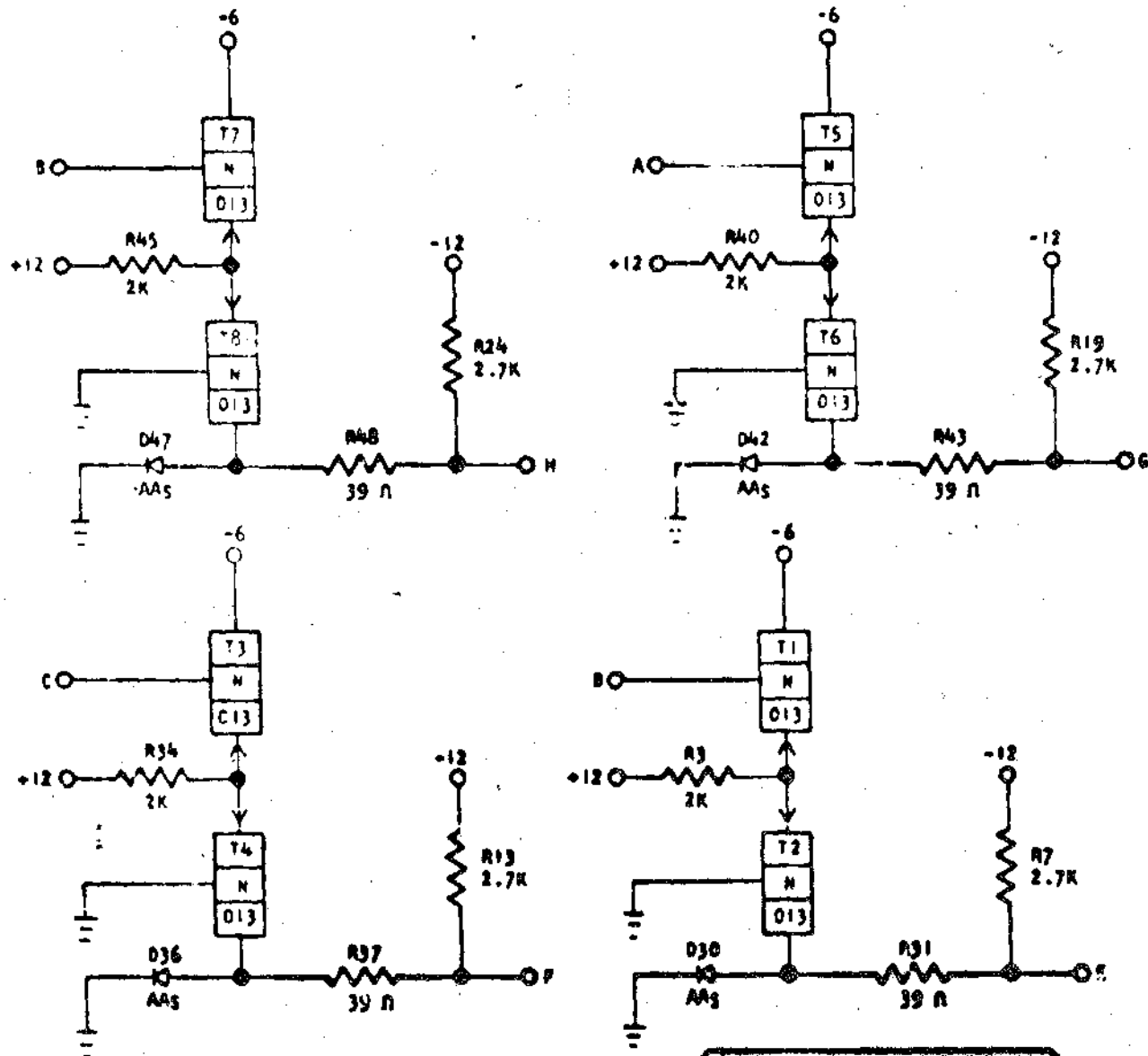
371951

372160
AUC

CODE
NATURE
2.7045

ALLOY-CONVERTER (N LINE TO S LINE)

372160



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892699
 - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084682, 2093485 AND 2093496
 - XII ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
 - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296

T1	344892	013
T2	344892	013
T3	344892	013
T4	344892	013
T5	344892	013
T6	344892	013
T7	344892	013
T8	344892	013

HOLE PATTERN
493457

USE WITH SPECIFICATION 8010800

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
DCM	CARD ASM TSTR ALLOY CONVERTER (N LINE TO S LINE)			22.1.62	EC 113886						
PROJET		TYPE	SMS		JT 80896						
DESSIN	7J	14-3-62	ECHEI								
VERIF			CALQ								
APPR			VERIF								

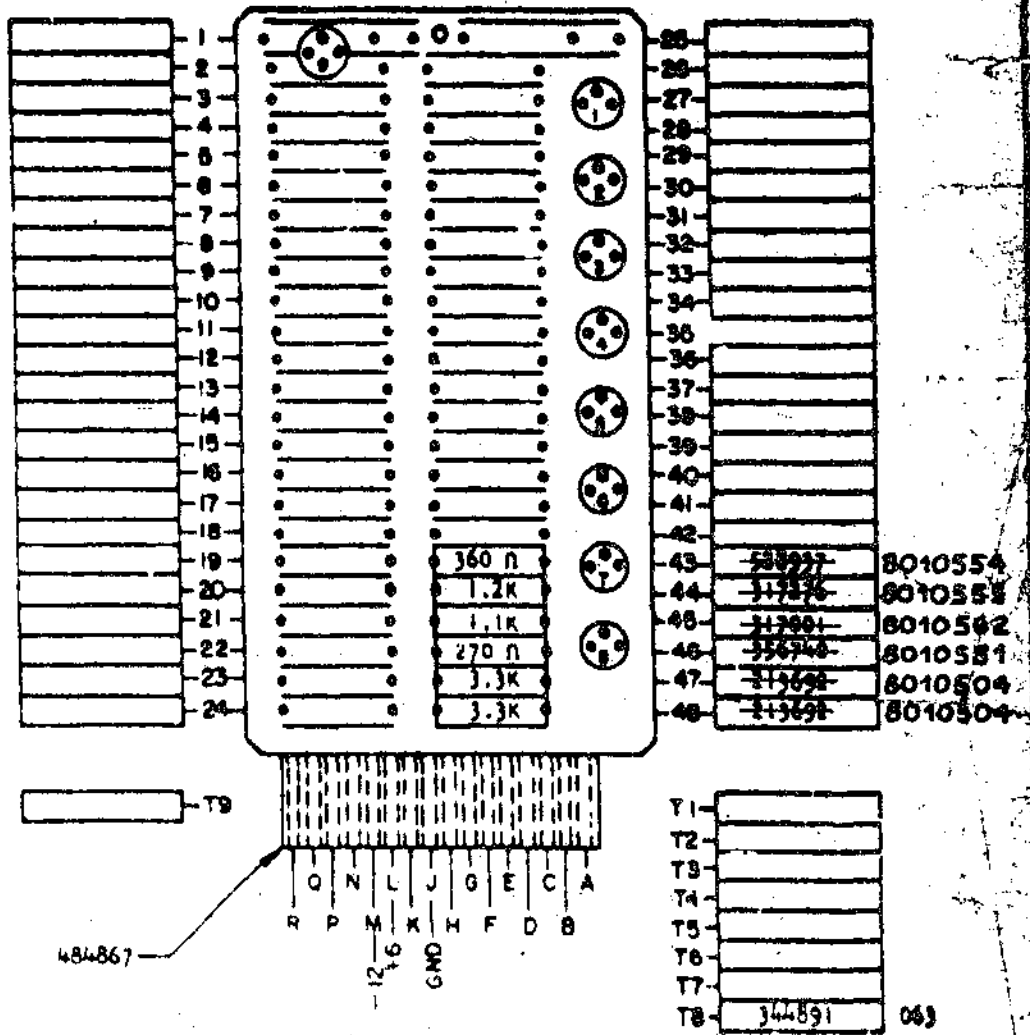
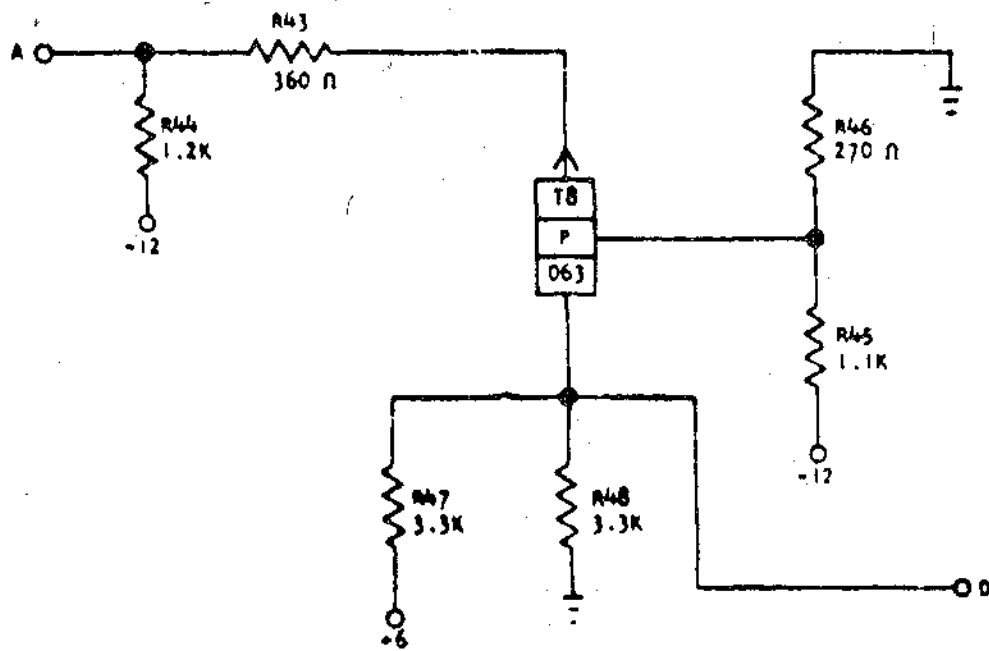
372160

372161
AUD

CODE
NATURE
2.7045

ALLOY-CONVERTER (S TO N LINE)

372161



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892641
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093495 AND 2093496
- XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED

HOLE PATTERN
493457

USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NO	CARD. ASM TSTR ALLOY CONVERTER (S TO N LINE)			22.1.62	EC 113886				
PROJ		TYPE	SMS		JT 80886				
DESSIN	JJc	74-3-60	HEL						
VERIF		CALQ							
APPR		VERIF							

372161

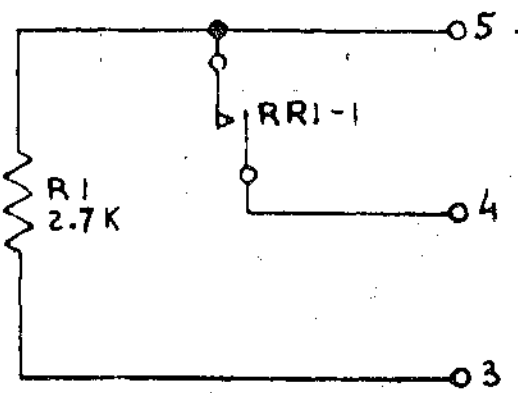
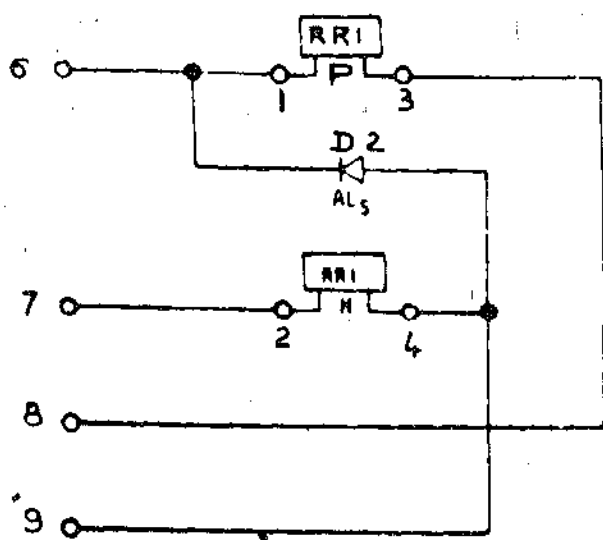
372688

CODE NATURE 2-7045

372688

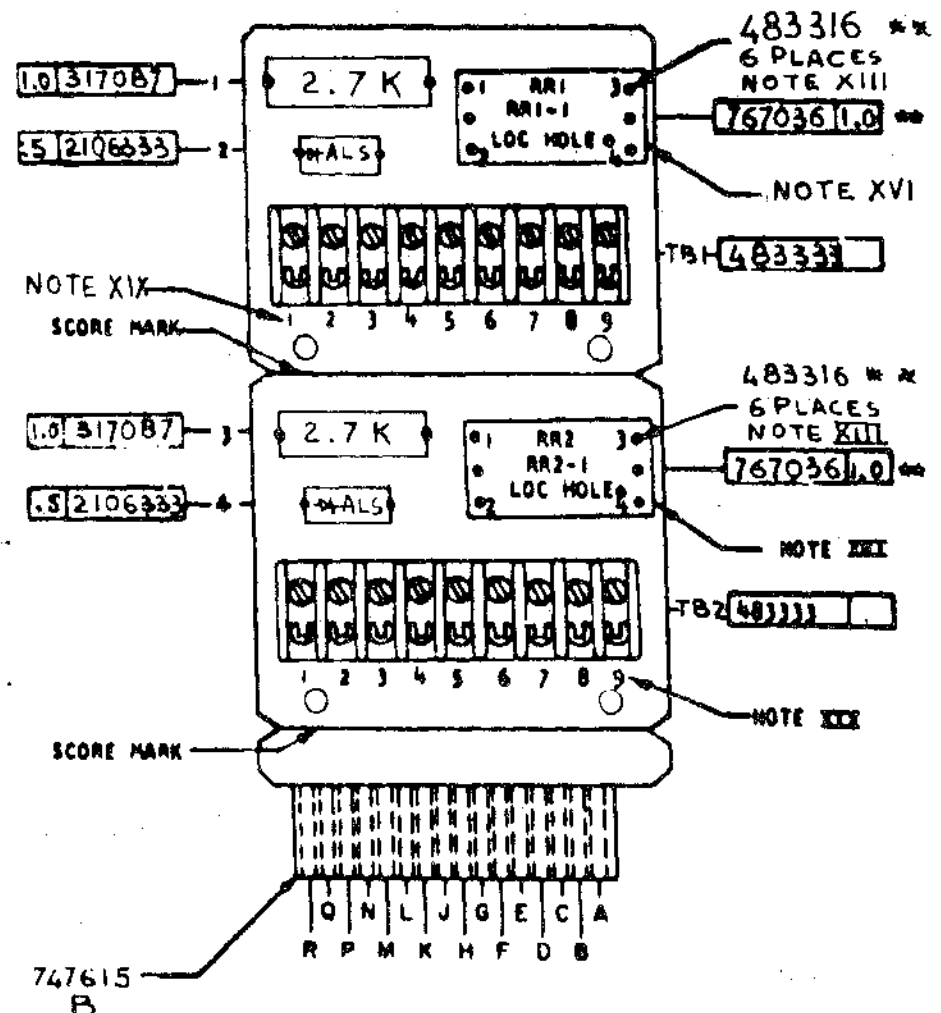
METER CARD

RESTRICTED NOTE XVII



02
01

- NOTES
- XI CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION B70688
 - XII ASSEMBLE TO ENGINEERING SPECIFICATION B92058, 2084642-2093495 and 2093496
 - XIII ALL RESISTORS ARE 2 WATT AND 5% UNLESS OTHERWISE NOTED
 - XIV SLOT IN LUG 483316 MUST BE PARALLEL TO Y-Y AXIS
 - XV THIS CARD CONTAINS TWO ASSEMBLIES OF THE CIRCUIT SHOWN
 - XVI TAB AREA IS REQUIRED AT ASSEMBLY, FOR MANUFACTURING PURPOSES ONLY. ASSEMBLY IS TO BE BROKEN AT SCORE-MARKS PRIOR TO STOCKING
 - XVII DO NOT SUBJECT REED ASSEMBLY TO LIQUIDS
 - XVIII TECHNICAL LABORATORY EVALUATION INCOMPLETE ADDITIONAL USAGE TO BE AVOIDED. THIS PART SUBJECT TO WITHDRAWAL.
 - XIX STANDARD TRANSISTOR EMBOSS, CENTERED ON GRID CO-ORDINATES 0737, 0726, 0763, 0774, 4526, 4537, 4563, AND 4574.
 - XX NUMBERS TO BE MARKED PERMANENTLY AND LEGIBLY AS SHOWN IN COMPONENT VIEW TO IDENTIFY TERMINAL POSITIONS. NUMBERS TO BE NO LESS THAN .094 HIGH.



USE WITH SPECIFICATION 8010600

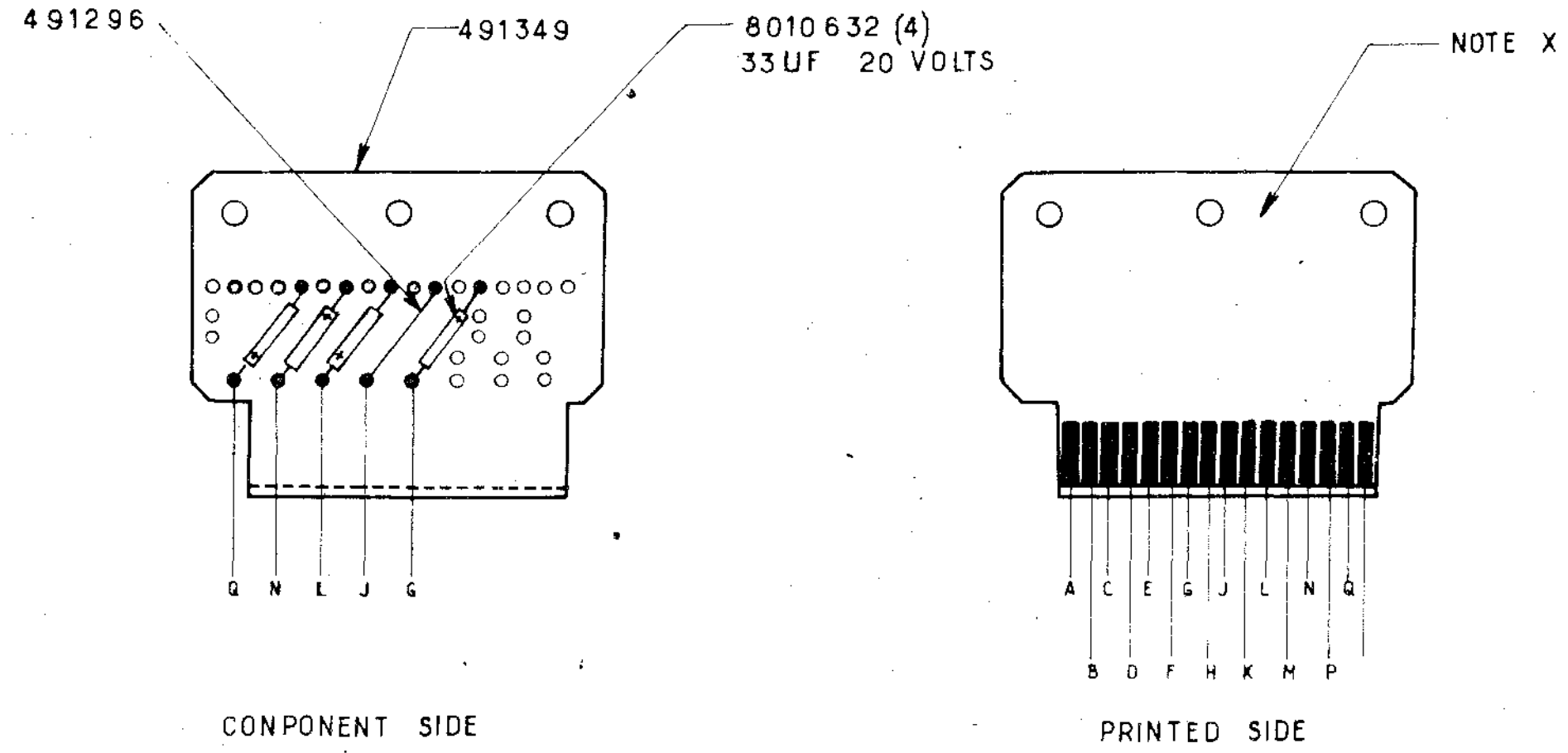
IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM. TSTR			20.9.63	EC. 118931				
PROJET		TYPE	SMS	13.12.63	JT. 84659				
DESSIN	VPB	4.12.63	ECHEL.						
VERIF.		CALQ.							
APPR.		VERIF.							

372688

CODE NATURE	APPROBATION TECHNIQUE	SYMB	DATE	CHANG NO	APP TECH	SYMB	DATE	CHANG NO	APP TECH
2-7045	ELEC		4-10-61	EC 249780					
PREMIERE UTILISATION	MÉTAL		22-12-61	JT 80891					
556893	PLASTIQUE		18-12-61	EC 249585					
	FINITION		22-2-62	JT 80883					

556981

556981



COMPONENT SIDE

PRINTED SIDE

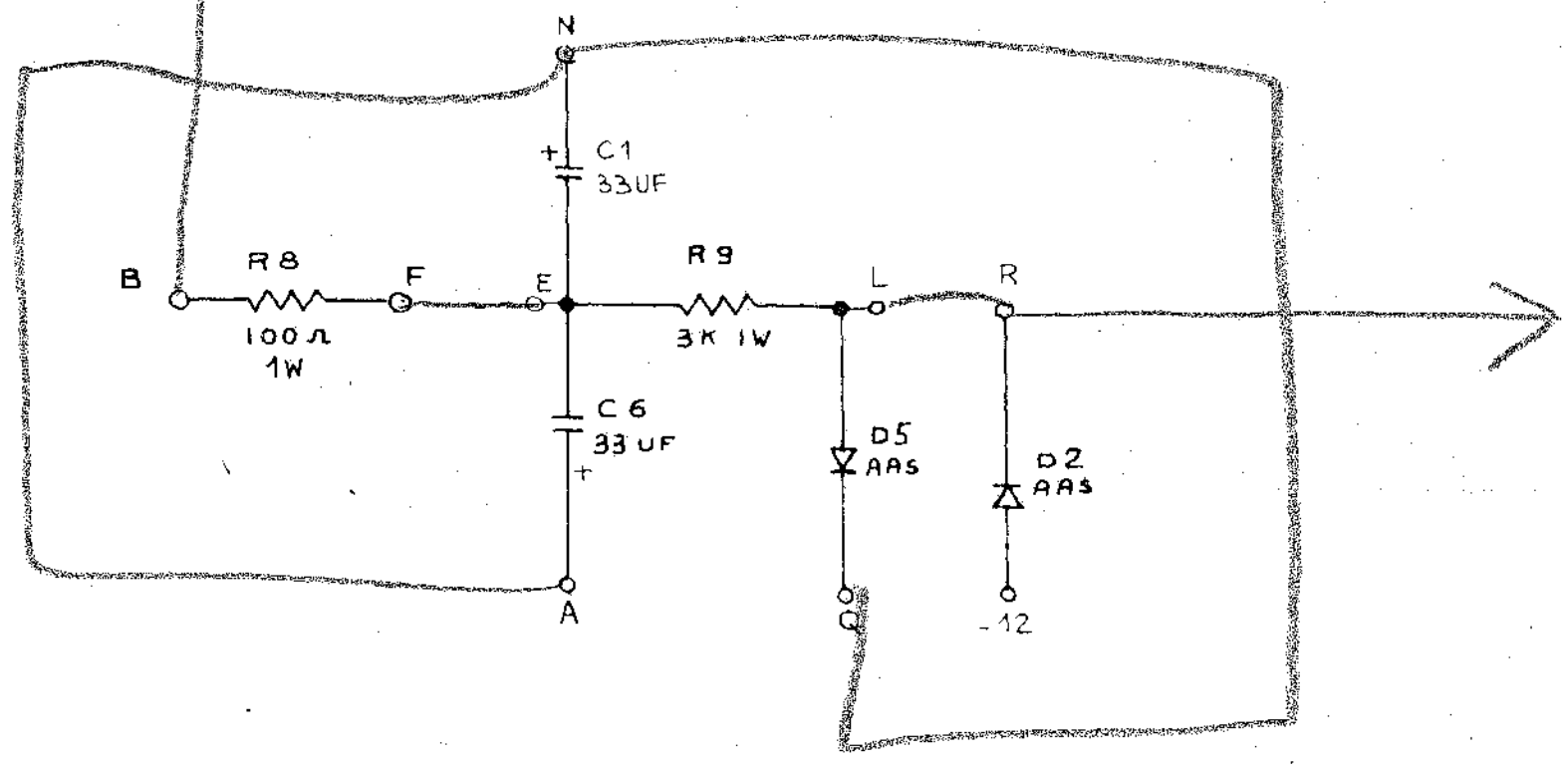
NOTES
 X MARQUER LE N° DE LA PIECE ET LE N° DE JT
 XI FABRIQUER CONFORMEMENT AUX NOTICES TECHNIQUES
 2084692 , 2093495 ET 2093496

SPÉC MATIÈRE N°		TOLERANCES GENERALES		IBM			
PROF CEM		DIMENSIONS: ±		ALIGNÉ A	NOTE I	NOM	ASSEMBLAGE CARTE
DURETÉ		ANGLES: ±			NOTE II	CONDENSATEURS	
TRAIT. DE SURFACE		ARETES EXTÉR MAX		PLAN A	NOTE III	PROJET	TYPE 7330
186955	B	ARETES INTÉR MAX		PARALLÈLE A	NOTE IV	DESSIN	No 40 15-12-61
		ABATJUS		DROIT A	NOTE V	VÉRIF	APC 15-12-61
				D'ÉQUERRE A	NOTE VI	APPR	ECHELLE 1/1
							CALC
							VÉRIF

8023359

8023359

CODE
NATURE
7 7 345



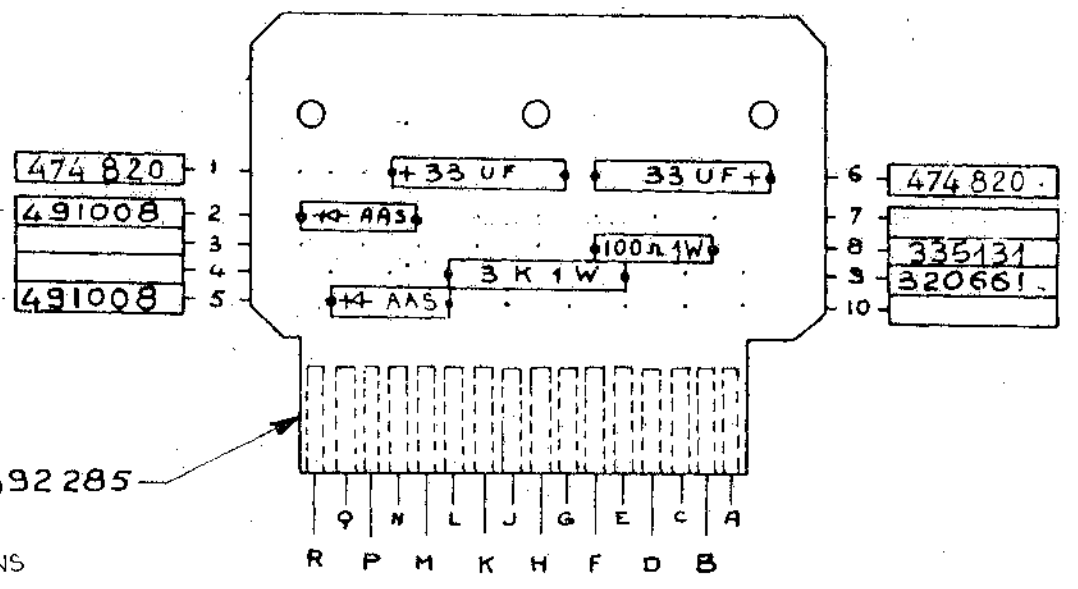
- NOTES -

X ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 - 2093495-AMD 2093496.

XI PIN VOLTAGES

M -12

OTHER VOLTAGES PROVIDED BY "WIRE WRAP" ON THE SOCKET, DEPENDING ON APPLICATIONS



USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	ASM. CARD-INTEGRATOR			2 9 63	JT84696						
	400 MS				JT84665						
PROJET		TYPE	SMS	4 5 65	JT86891						
DESSIN	J.P.B.	29.7.63	ECHEL	1 6 65	JT86891 A						
VERIF	F.P.	29.7.63	CALQ.								
APPR			VERIF.								

8023359