

REFERENCE PAGE

8018700

RESISTORS PLUGGING CHART

P/N	LOGIC	LINE	CONNECTED BETWEEN	
			CIRCUIT	VOLT. BUS
8020746	08.00.1	Set Read Status	J 19 A	J 19 M
"	"	Set Hi. density	J 19 C	J 18 M
"	"	Turn off T.I	J 20 A	J 17 M
"	"	Go	J 21 A	J 21 M
"	"	Rewind & Unload	J 21 C	J 22 M
"	"	Write Bus 1 bit	J 15 A	J 12 L
"	"	" " 2 "	J 15 B	J 13 L
"	"	" " 4 "	J 15 C	J 14 L
"	"	" " 8 "	J 15 D	J 15 L
"	"	" " A "	J 16 A	J 16 L
"	"	" " B "	J 16 B	J 17 L
"	"	" " C "	J 16 C	J 18 L
"	"	Write Pulses	J 16 D	J 18 L
"	"	Backward.	J 17 A	J 17 L
"	"	Write Status	J 17 B	J 16 L
"	"	Turn on T.I	J 17 C	J 15 L
"	"	Set Lo. density	J 17 D	J 14 L
"	"	Start Rewind	J 18 A	J 19 L
"	"	Wr. check charact.	J 18 B	J 19 L
8018574	"	Shield	J 19 K	H 23 K
"	"	Shield	J 20 K	J 17 K
"	"	Shield	J 21 K	H 24 K

IBM		DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°
MAGNETIC TAPE UNIT		16.4.63	IT 83 894				
SYSTEM DIAGRAM T.U.02.00.0							
PROJET	TYPE						
DESSIN	IC 10.1						
VERIF	CAI C						
APPR: <i>Rpa</i>	VERIF						

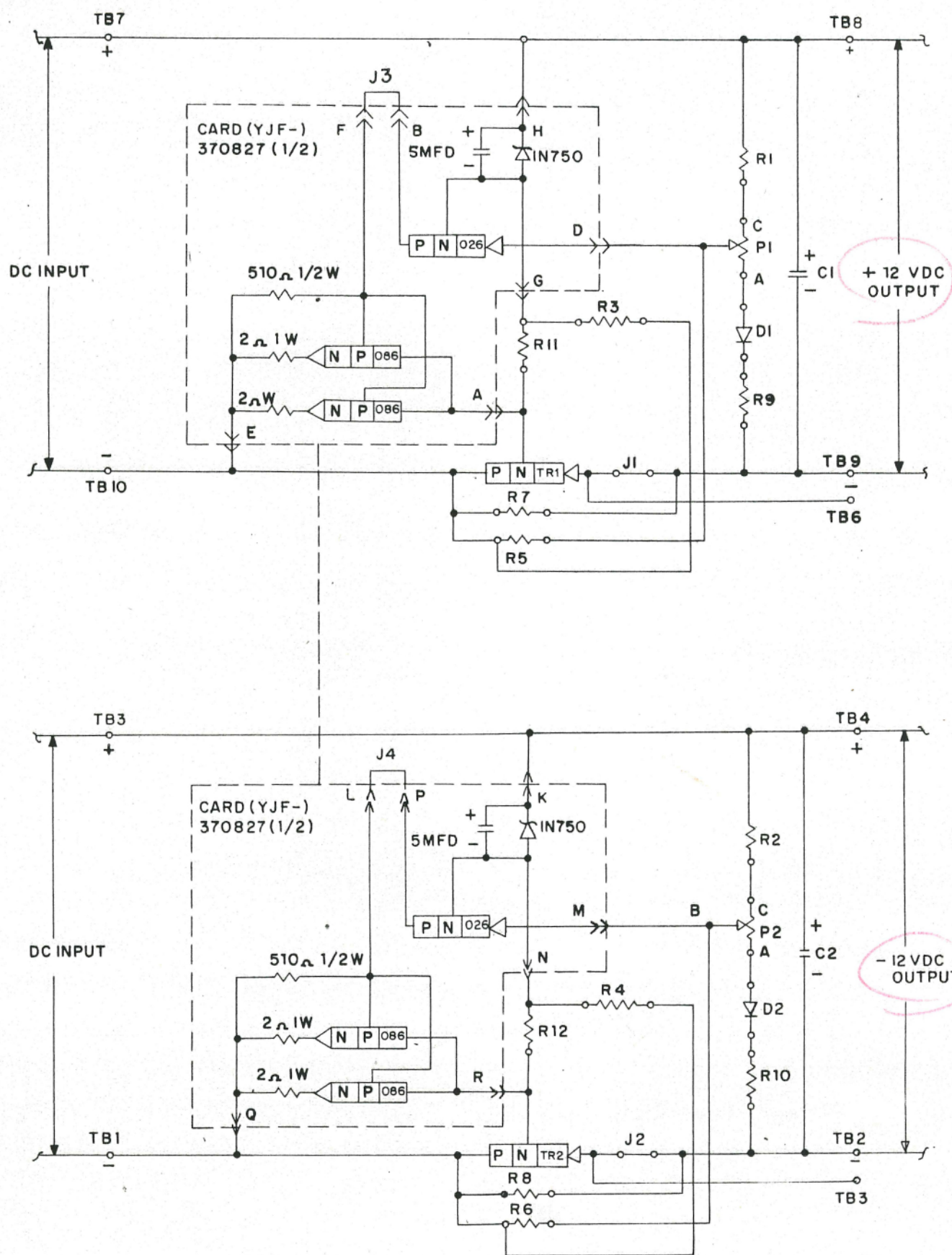
T.U.02.00.0







± 12 VDC REGULATOR



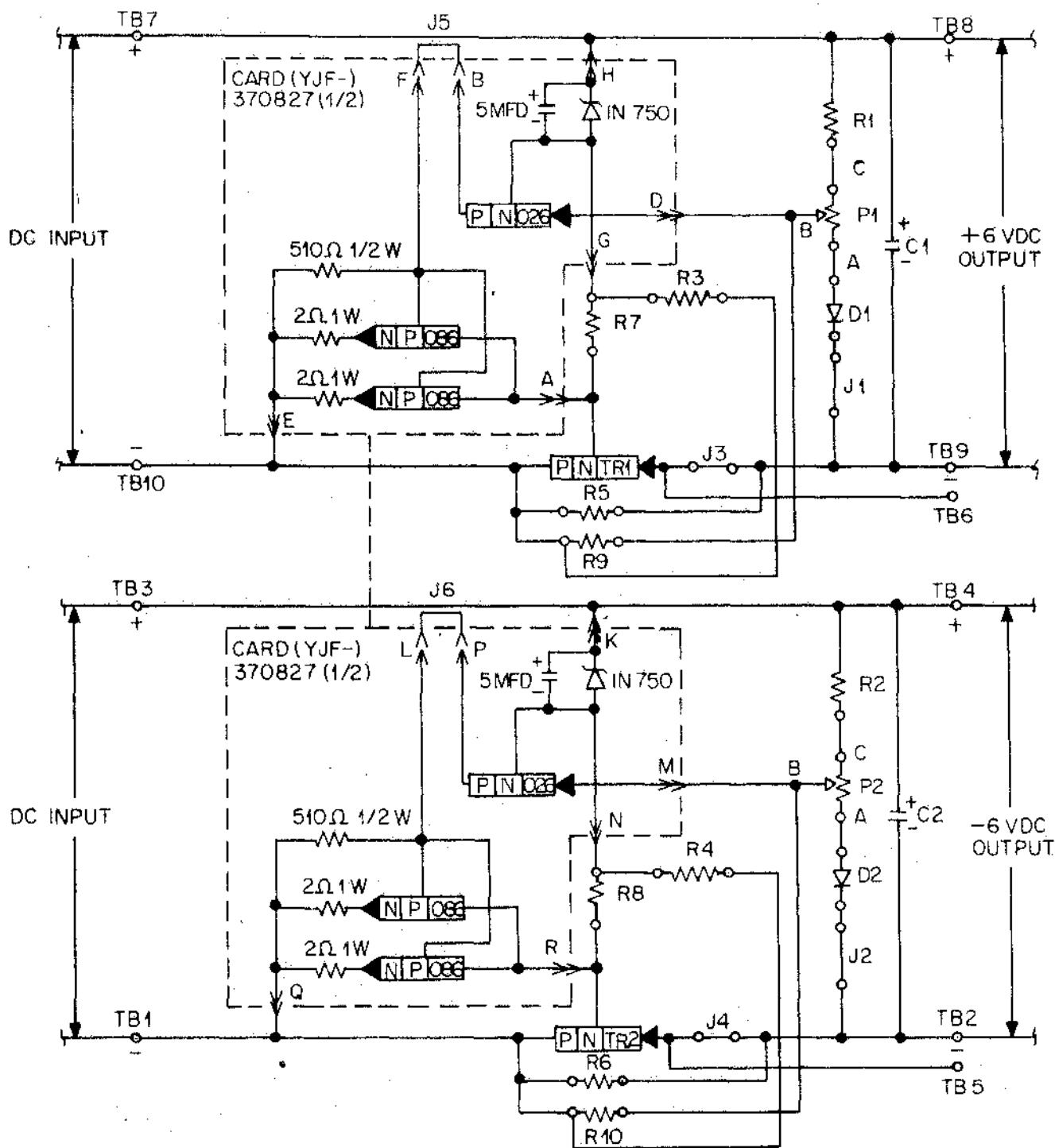
COMPONENT CHART			
SYMBOL	DESCRIPTION	PART NO	QTY
TR1 TR2	022 TRANSISTOR	526898	2
D1 D2	IN 537 DIODE	207398	2
P1 P2	25Ω 2W POT	2132014	2
C1 C2	250 MFD 50VDC CAP	2109462	2
R1 R2	30Ω 1W RESISTOR	509507	2
R3 R4	3,9K 1/2 W RESISTOR	317022	2
R5 R6	6,2 K 1/2 W RESISTOR	334914	2
R7 R8	100Ω 2W RESISTOR	322888	2
R9 R10	56Ω 2W RESISTOR	216981	2
R11 R12	510Ω 1W RESISTOR	103915	2
J1 J2	JUMPER	337519	2
J3 J4	JUMPER	337530	2

IBM				DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°
NOM	SYSTEMS DIAGRAM			15.2.62	250-259				
TU.95.10.2				10.1.63	82364				
PROJET		TYPE	729A.II.IV						
DESSIN.		ECHELLE							
VERIF.		CALQ.	RD 6/62						
APPR.		VERIF.	Got 20/8/62						



348549

±6 VDC REGULATOR



COMPONENT CHART			
SYMBOL	DESCRIPTION	PART NO	QTY
TR1 TR2	022 TRANSISTOR	526898	2
D1 D2	IN 537 DIODE	207398	2
P1 P2	25 Ω 2W POT	2132014	2
C1 C2	250 MFD 50VDC CAP	2109462	2
R1 R2	30Ω 1W RESISTOR	509507	2
R3 R4	2K 1/2W RESISTOR	317019	2
R5 R6	75Ω 2W RESISTOR	216986	2
R7 R8	220W 1/2 W RESISTOR	317007	2
R9 R10	3K 1/2 W RESISTOR	323920	2
J1 J2	JUMPER	337519	4
J3 J4	JUMPER	337519	4
J5 J6	JUMPER	337530	2

IBM			DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°
NOM	SYSTEM DIAGRAM		2-15-62	250259				
	TU.95.10.3		10-1-63	82964				
PROJET		TYPE	729 II IV					
DESSIN.		ECHELLE						
VERIF.		CALQ.	RD 6.62					
APPR.		VERIF.	Ge 20/8/62					
								TU.95.10.3

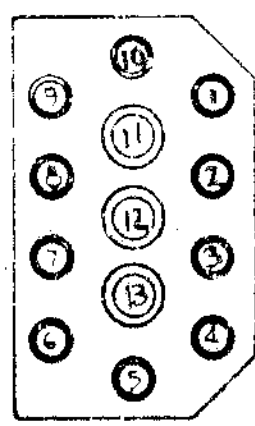


MASTER

TAPE POWER CONNECTORS

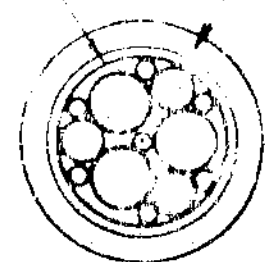
POWER PLUG PIN ASSIGNMENTS				
TAPE UNIT		POWER CABLE		SYSTEMS PAGE
PIN NO.	VOLTAGE OR CONTROL	WIRE SIZE	TYPE	
1	AC OUTLET 15 VOLTS	14	AC	TU16.00.0
2	AC OUTLET	14	AC	TU16.00.0
3	BOND	14		TU16.00.0
4	NEUTRAL	18		TU16.00.0
5	MODEL II RESET 220 VOLTS	18	AC	TU16.00.0
6	SPARE	18		
7	SPARE	18		
8	SPARE	18		
9	AC OUTLET 220 VOLTS	18	AC	TU16.00.0
10	MODEL II RESET 220 VOLTS	18	AC	TU16.00.0
11	UNREG AC #1	10	AC	TU16.00.0
12	UNREG AC #2	10	AC	TU16.00.0
13	UNREG AC #3	10	AC	TU16.00.0

POWER PLUG PIN ASSIGNMENTS



PIN LAYOUT - POWER PLUG - MALE

WRAPPER. OUTER JACKET



POWER CABLE CROSS SECTION VIEW

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME: MS DIAGRAM		6-6-62	JT 82900			PRINT TO ENG. SPEC NO. 895291	
DESIGN: 3.00.0						DWG. SIZE - B	
DESIGN: 16-20-61	MODEL: 719A II						
CHECK: LFC 7-3-61	DRAWN:						
UPPER: RSE 7-5-61	CHECK:						TU0300.0









MACHINE INDEX CARD

C.E.M.'s and F.B.M.'s

Type 0729	Mach. Serial No. <b>B4</b> 0729 85 34827	Model 5	Volts 380	Cycles 50	Phases 3	Plant Order No. FA 2629	Cust Order No. 9376 03
Wiring Diagram : 3022237			Final Assembly : 348402 8022316				

SELECTIVE OR OPTIONAL FEATURES AND SPECIAL DEVICES

Feat. Code	Designation and remarks	yes	Record No.	Suf.	E.C. level
	Shipping Group	X	348362		
	Idiomatic Feature				
	English	X	8021807		
	French		8021806		
	German		8021808		
	Accent Panel Color Groups				
	Blue	X	539655		
	Red		539656		
	Yellow		539657		
	Tape Reel Labels				
	Label - Gray Mylar		535943		
	Label - Gray H.D.		351530		
	Label - Blue Mylar		535944		
	Label - Blue H.D.		351529		
	Magnetic Recording Splicing Tape		322386		
	External Cable - Special (Type AA)		352464		
	Standard (Type AB)		535099		
	POWER CABLE		535098		
	Tape Signal Terminator				
	Standard (Type A)		348590		
	Special (Type B)		348591		
	Tape Switching Facility	X	348530		
	Ready Meter		8016800		

See Machine History

See Machine History

inst. date	Designation and remarks	Record No.	Suf.	E.C. Level

REMARKS :

1 5 1964 319  
P/N 8018163

updated: JT 82205  
P/N: JT 83281

Final Insp. Name	Check Date	C.E. Dept. Name	Check Date
<i>[Signature]</i>			



# MACHINE HISTORY

MACHINE TYPE: **A 729 V**SERIAL N° 35 **034827**

JT N°	DESCRIPTION	LOGIC		ENG CHG
		MECHA		
1 82 900	RELEASE		LOGIC	
2 82 900 A	RELEASE		LOGIC	
3 80 823	800 BPI		MECHA	
4 82 957	MOD 5			
5 82 900 B	GROUND WRITE CABLE		LOGIC	
6 82 965	DIODE R 12		LOGIC	
7 82 836	HSR CIRCUIT CH.		LOGIC	
8 81 545	GROUND REGULATOR		LOGIC	
9 82 835	CP4 8A.		LOGIC	
10 82 791	VAGUUM PUMP PROTECT		LOGIC	
11 82 992	MISC. CHANGES		LOGIC	
12 83 878	MERC SW REP		MECHA	
13 82 742	MISC CHANGES		LOGIC	
14 82 964	BASIC POWER SUPPLY		LOGIC	
15 81 240	NEW FRONT DOOR		MECHA	
16 83 930	PR DAM CONT DP 7		LOGIC	
17 82 594	WR HEAD MODIF		MECHA	
18 83 555	ADJUS HEAD STOP		MECHA	
19 84 273	RC TAPE IN COLUMN SWITCH		MECHA	
20 84 880	PREPARE METER		LOGIC	
21 84 735	NOR IMPROVEMENT		LOGIC	
22 81 803 A	TAPE SWITCHING		LOGIC	
23 85 913	TAPE SWITCHING LINE TERMINATION			8/14 802611
24 86 086	logic change			0/14 8034023
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0729 A 5

SERIAL N°  
034827

JT N°	DESCRIPTION	INDEX	PART N°
<del>82900-A</del> 84735	SEQUENCE CHART	T U 00 01 0	8023316
82900 84735	SEQUENCE CHART	T U 00 02 0	8023313
<del>82900</del> 83894	REFERENCE PAGE	T U 02 00 0	8016976 8018701
<del>84735</del>	TAPE SWITCHING CONTROL	T U 02 00 4	8018701
82900	T.C. CONNECTOR RECEPTACLE	T U 02 10 0	8016965
82900	TAPE SIGNAL TERMINATOR	T U 02 20 0	8016966
82900	TAPE POWER CONNECTOR	T U 03 00 0	2092732
82900	CIRCUIT CARD LOCATION CHART	T U 04 10 0	8016967
<del>82742</del> 84735	CIRCUIT CARD LOCATION CHART	T U 04 11 0	8023316
83895 A	CIRCUIT PROTECTOR CHART	T U 05 00 0	8020515
82900	LOCATION CHART	T U 06 00 0	2092735
82071 C	LOCATION CHART	T U 06 10 0	8018771
82781	READ PRAMPS	T U 07 00 0	8016969
82742	ERASE HEAD, WRITE PULSE	T U 07 10 1	8016971
82900 A	WRITE CIRCUIT	T U 07 10 2	8016972
82900	DELAY MATRIX	T U 07 10 3	8016989
82900	WR STATUS + WR TRIG INDICATOR	T U 07 10 4	8016986
<del>82992-V</del> 81803A	INPUT CONVERSION LINES	T U 08 00 1	<del>8016990</del> 8018055
82900 A	OUTPUT CONVERSION LINES	T U 08 10 1	8016973
82900	REAR C. E. PANEL I	T U 08 20 1	8016992
82900A	REAR C. E. PANEL II	T U 08 20 2	8016993
83895 A	SELECT SWITCH CCP ALARM CIRC	T U 08 30 1	8020738
<del>82900</del> 84735	WR STAT, REW UNLOAD	T U 09 10 1	8023319
82742	SEL + RDY, REW STAT, NO FIL PROT	T U 09 15 1	8016997
<del>82742</del> 84735	INITIAL RESET, LOAD	T U 09 20 1	8023321
<del>82742</del> 84735	UNLOAD UNLOAD STOP	T U 09 25 1	8023322
82742	MOTOR REVERSE	T U 09 30 1	8016841
<del>82742</del> 84735	TAPE TAKE UP, HEAD UP MOTOR	T U 09 35 1	8023323
<del>82742</del> 84735	HS REWIND CAPSTAN MOTOR	T U 09 40 1	8023324
<del>82742</del> 84735	-48 VOLT CLUTCH CONTROL	T U 09 45 1	8023325
<del>82742</del> 84735	FORWARD GO CONTROL	T U 09 50 1	8023326
<del>82900</del>	PROLAY CONTROL	T U 09 50 2	8023327
82071 C	PROLAY COILS	T U 09 50 3	8018770
<del>82742</del> 84735	LOAD POINT, TAPE INDICATE	T U 09 55 1	8023328
82900	SEQUENCE CHART, CHANGE DENSITY	T U 09 60 0	8016995
82742	DENSITY	T U 09 60 1	8018004
82791	RELAYS, MOTOR, CLUTCH, NOT FILE P	T U 10 00 1	8018005
<del>82742</del> 84735	SWITCHES	T U 11 00 1	8023329
82742	LIGHTS	T U 12 00 1	8018006
83884	C. E. TESTER CONTROL	T U 13 00 1	8018007
82900	FRONT C. E. PANEL	T U 13 10 1	8018008
83654	CLUTCH AND VACUUM CONTROL	T U 15 00 0	8016848
83930	MOTORS CIRCUITS	T U 16 00 0	2092734
<del>82900-A</del> 84735 A	CND SYSTEM -48 -7, 5 VOLT DISTRIB	T U 95 00 1	<del>8023330</del> 8018098
<del>82900-B</del> 84735	+12 -12 +6 -6 VOLT DISTRIBUTION	T U 95 00 2	8023332
82964	POWER SUPPLY -140 -7, 5 -48	T U 95 10 1	2092963
82964	POWER SUPPLY +12 -12 VDC	T U 95 10 2	348548
82964	POWER SUPPLY +6 -6 VDC	T U 95 10 3	348549

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SERIAL N° 034827

JT N°	DESCRIPTION	INDEX	PART N°
82900	COUPLING N T W K N P BLKS	AK	371241
82900	CONVERTER N LINE TO S LINE	APE	370629
82900	CONVERTER P LINE TO S LINE	APF	370640
82900	CONVERTER S LINE TO N LINE	APG	370641
82900	CONVERTER S LINE TO P LINE	APH	370642
82900	CONTROL TRIGGER	AR	371034
82407	ALLOY PRE AMPLIFIER N°1	ARK	370706
82900	PRE AMPLIFIER L 2	ARL	370707
82900	GATED SAMPLE PULSE DRIVER	AYWX	371041
82900	DELAY LINE LUMPED	BJ	371432
82900	DRIVER 2. PROLAYS	BKVZ	371433
82900	INVERTERS N TYPE	CD	371029
82900	EMITTER FOLLOWER P N P	CEYB	371032
82407	INVERTER THREE WAYS	DAC	371951
82407	INVERTER TWO WAYS	DAX	370084
82900	ALLOY INDICATOR	HW	371048
82900	HEAD DRIVER + ECHO PULSE AMPLIFIER	LZ	371674
82900	DRIVE FUNCTIONAL COIL	MD	371497
82900	INVERTERS. POWER PN P	MH	371487
82900	INVERTERS. N TWO WAYS	MX	371661
82900	ALLOY DELAY LINE	RP	371749
82407	TWO WAYS INVERTER	TAU	370129
82900	INTEGRATOR	TG	8016532
82900	DRIVER RELAY 2.5 AMPLIFIER	WB	371880
82900	A.C. PHOTO AMPLIFIER	YAW	370452
82407	WRITE CURRENT BALANCE	YEV	370668
82407	RESISTOR AND SUPPRESSOR	YHM	370701
82900	CAPACITORS	OOO	556981
83544	ALLOY MULTIVIBRATOR	QG	371679
83544	ALLOY MULTIVIBRATOR	QH	371680





607531Z

1000

SEQUENCE CHART

LOW SPEED LOAD REWIND

FUNCTION	PAGE	BOX	T.P.																		
1 LOAD REW. KEY	TU.11.00.1	4F	3C02B	+S																	
2 INITIATE REW	TU.09.10.1	1G	3C07G	-S																	
3 INITIAL RESET	TU.09.20.1	5B	3C15G	-S																	
4 UNLD. STATUS	TU.09.25.1	3C	3006C	+S																	
5 LD. REW. STATUS	TU.09.20.1	2B	3C16G	+S																	
6 REW. STATUS	TU.09.15.1	3E	3C11D	+S																	22
7 VAC. MTRS. -R4	TU.09.25.1	3F	3C06E	+S																	
8 MTR. REV. -R7	TU.09.30.1	2F	3D09L	+S																	
9 VAC. OFF BEL. SW	TU.11.00.1	2E	3G04H	-S																	
10 RUN -R1 / R2	TU.09.20.1	2E	3C19H	+S																	
11 HEAD UP MTR -R8	TU.09.35.1	1F	3D15L	+S																	6
12 TAPE UP MTR -R6	TU.09.35.1	2B	3D13G	-S																	15
13 TAPE IN ONE COL.	TU.09.35.1	5H	3D11L	+S																	
14 HD UP SW	TU.11.00.1	1B	3G03H	+S																	
15 TAPE IN BOTH COL.	TU.09.35.1	5G	3D11K	-S																	
16 HEAD DWN SW.	TU.11.00.1	1D	3G04E	+S																	
17 CAP. MTRS. -R3	TU.09.40.1	2E	3D24A	+S																	
18 CAP. OUT SW.	TU.11.00.1	1A	3G03E	+S																	
19 FORWARD	TU.09.50.1	1A	3D24C	+S																	6
20 GO	TU.09.50.1	1F	3D23K	+S																	22
21 L.P. PHOTOCELL	TU.09.55.1	4A	3E20D	-S																	
22 AT LOAD POINT	TU.09.55.1	2B	3E21G	+S																	21

A LOAD REWIND KEY  
 B VACUUM UP  
 C TAPE IN ONE COL.  
 D TAPE IN TO COLUMNS  
 E HD DWN SW  
 F CAPSTANS OUT  
 G LOAD POINT SENSED

HIGH SPEED LOAD REWIND

FUNCTION	PAGE	BOX	T.P.																			
1 RESET KEY	TU.09.15.1	4H	3C14K	-S																		
2 START STATUS	TU.09.15.1	5B	3C13E	-S																		
3 LOAD REW. KEY	TU.11.00.1	4F	3C02B	+S																		
4 INITIATE REW.	TU.09.10.1	1G	3C07G	-S																		
5 REW. STATUS	TU.09.15.1	3E	3C11D	+S																		22
6 MTR. REV. R7	TU.09.30.1	2F	3D09L	+S																		
7 LD. REW. STATUS	TU.09.20.1	2B	3C16G	+S																		
8 CAP. MTRS. -R3	TU.09.40.1	2E	3D24A	+S																		
9 CAP. IN SW.	TU.11.00.1	2D	3G04F	+S																		
10 TAPE UP MTR -R6	TU.09.35.1	1F	3D13G	+S																		
11 HEAD UP MTR -R8	TU.09.35.1	2B	3D15L	+S																		
12 HEAD UP SW.	TU.11.00.1	1B	3G03H	+S																		
13 TAPE IN ONE COL.	TU.09.35.1	5H	3D11L	+S																		
14 TAPE IN RT. COL.	TU.11.00.1	2A	3G03F	+S																		
15 TAPE IN LT. COL.	TU.11.00.1	2B	3G03G	+S																		
16 H.S. REW. MTR -R5	TU.09.40.1	1A	3C19E	-S																		
17 H.S. REW. PC.	TU.09.30.1	1C	3D10C	+S																		
18 HEAD DWN SW.	TU.11.00.1	1D	3E02K	+S																		
19 CAP. OUT SW.	TU.11.00.1	1A	3D02P	+S																		
20 FORWARD	TU.09.50.1	1A	3D24C	+S																		5
21 GO	TU.09.50.1	1F	3D23K	+S																		22
22 L.P. PHOTOCELL	TU.09.55.1	4A	3E20D	-S																		
23 AT LOAD POINT	TU.09.55.1	2B	3E21G	+S																		21
24 REELS STOPPED	TU.11.00.1	3H	3D02M	+S																		

A RESET KEY  
 B LOAD REWIND KEY  
 C CAPSTANS IN  
 D TAPE OUT OF BOTH COLS  
 E HD UP SW  
 F LOW SPEED AREA  
 G REELS STOPPED  
 H HEAD DOWN SW  
 I START CAPSTAN MTR  
 J CAPSTANS OUT  
 K LOAD POINT SENSED  
 L FORWARD STATUS

NOTE: ALL LEVELS SHOWN ARE IN ACTIVE STATUS

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	DATE	RECORD NO.	NOTE	DEVELOPER'S NO.
SYSTEMS PROGRAM						
TU000LO	08/26/63	1184/235				
REVISION 1						
REVISION 2						
REVISION 3						
REVISION 4						
REVISION 5						
REVISION 6						
REVISION 7						
REVISION 8						
REVISION 9						
REVISION 10						
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SEQUENCE CHART

MANUAL UNLOAD

FUNCTION	PAGE	BCR	TP													
1	RESET KEY	TU.09.15.1	4H	3C14K	+S											
2	START STATUS	TU.09.15.1	5B	3C13E	+S											
3	UNLOAD KEY	TU.11.00.1	3F	3C02H	+S											
4	GATED UNLD PB	TU.09.25.1	5E	3D05E	+S											
5	UNLD STATUS	TU.09.25.1	3C	3D06C	+S											
6	MTR REV-R7	TU.09.30.1	2F	3D09L	+S											
7	CAP MTRS-R3	TU.09.40.1	2E	3D24A	+S											
8	AT LOAD POINT	TU.09.55.1	2B	3E21G	+S											
9	CAP IN SW	TU.11.00.1	2D	3G04F	+S											
10	TAPE UP MTR-R6	TU.09.35.1	1F	3D13G	+S											
11	HEAD UP MTR-R8	TU.09.35.1	2B	3D15L	+S											
12	HEAD UP SW	TU.11.00.1	1B	3G03H	+S											
13	TAPE IN ONE COL	TU.09.35.1	5H	3D11L	+S											
14	TAPE IN RT COL	TU.11.00.1	2A	3G03F	+S											
15	TAPE IN LT COL	TU.11.00.1	2B	3G03G	+S											
16	VAC MTRS-R4	TU.09.25.1	3F	3C06E	+S											
17	UNLD STOP	TU.09.25.1	3F	3C06E	-S											
18	VAC OFF BEL SW	TU.11.00.1	2E	3G04H	-S											
19	RUN-R1/R2	TU.09.20.1	2E	3C19H	+S											
20	FORWARD	TU.09.50.1	1A	3D24C	+S											
21	GO	TU.09.50.1	1F	3D23K	+S											

- A RESET KEY
- B UNLOAD KEY
- C CAPSTANS IN
- D START TAPE UP MTR
- E TAPE OUT OF BOTH COLS
- F UNLOAD STOP
- G VACUUM OFF

REWIND AND UNLOAD

FUNCTION	PAGE	BCR	TP													
1	REW/UNLD TC39	TU.08.00.1	5H	3J21H	+S											
2	INITIATE REW	TU.09.10.1	1G	3C07G	-S											
3	REW/UNL STAT	TU.09.10.1	4G	3C08C	-S											
4	REW STATUS	TU.09.15.1	3E	3C11D	+S											
5	MECH. RDY	TU.09.15.1	2C	3C10K	+S											
6	SEL & RDY	TU.09.15.1	1B	3C09C	+S											
7	SEL & REW TC37	TU.09.15.1	1E	3H16P	-S											
8	LP PHOTO CELL	TU.09.55.1	4A	3E20D	-S											
9	AT LOAD POINT	TU.09.55.1	2A	3E21G	+S											
10	UNLD STATUS	TU.09.25.1	3C	3D06C	+S											
11	START STATUS	TU.09.15.1	4A	3C12K	-S											
12	MTR REV-R7	TU.09.30.1	2F	3D09L	+S											
13	CAP MTRS-R3	TU.09.40.1	2E	3D24A	+S											
14	CAP IN SW	TU.11.00.1	2D	3G04F	+S											
15	TAPE UP MTR-R6	TU.09.35.1	1F	3D13G	+S											
16	HEAD UP MTR-R8	TU.09.35.1	2B	3D15L	+S											
17	HD UP SW	TU.11.00.1	1B	3G03H	+S											
18	TAPE IN ONE COL	TU.09.35.1	5H	3D11L	+S											
19	TAPE IN RT COL	TU.11.00.1	2A	3G03F	+S											
20	TAPE IN LT COL	TU.11.00.1	2B	3G03G	+S											
21	VAC MTRS-R4	TU.09.25.1	3F	3C06E	+S											
22	UNLD STOP	TU.09.25.1	3F	3C06E	-S											
23	VAC OFF BEL SW	TU.11.00.1	2E	3G04H	-S											
24	RUN-R1/R2	TU.09.20.1	2E	3C19H	+S											
25	FORWARD	TU.09.50.1	1A	3D24C	+S											
26	GO	TU.09.50.1	1F	3D23K	+S											

- A REW/UNLD TC39
- B REWIND STATUS
- C SEL & REWIND TC37
- D LOAD POINT SENSED
- E UNLOAD STATUS
- F AT LOAD POINT
- G CAPSTANS IN
- H TAPE OUT OF BOTH COL
- I HD UP SW
- J VACUUM OFF

NOTE II ALL LEVELS ARE SHOWN IN ACTIVE STATUS

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SYSTEMS DIAGRAM		20.65	784735			895201	
TU00.02.0							
DESIGN	MODEL						
DETAIL SC	212-63						
CHECK LHS	DATE 11/12/64						
APPROV RAR	221-23	CHECK WPT	19-63				

RESISTORS PLUGGING CHART

P/N	LOGIC	LINE	CONNECTED BETWEEN	
			CIRCUIT	VOLT. BUS
8020746	08.00.1	Set Read Status	J 19 A	J 19 M
"	"	Set Hi. density	J 19 C	J 18 M
"	"	Turn off T.I	J 20 A	J 17 M
"	"	Go	J 21 A	J 21 M
"	"	Rewind & Unload	J 21 C	J 22 M
"	"	Write Bus 1 bit	J 15 A	J 12 L
"	"	" " 2 "	J 15 B	J 13 L
"	"	" " 4 "	J 15 C	J 14 L
"	"	" " 8 "	J 15 D	J 15 L
"	"	" " A "	J 16 A	J 16 L
"	"	" " B "	J 16 B	J 17 L
"	"	" " C "	J 16 C	J 18 L
"	"	Write Pulses	J 16 D	J 18 L
"	"	Backward.	J 17 A	J 17 L
"	"	Write Status	J 17 B	J 16 L
"	"	Turn on T.I	J 17 C	J 15 L
"	"	Set Lo. density	J 17 D	J 14 L
"	"	Start Rewind	J 18 A	J 19 L
"	"	Wr. check charact.	J 18 B	J 19 L
8018574	"	Shield	J 19K	H 23 K
"	"	Shield	J 20 K	J 17K
"	"	Shield	J 21 K	H 24 K

IBM				DATE	CHANG. NO.	DATE	CHANG. NO.	DATE	CHANG. NO.
NO.:	MAGNETIC TAPE UNIT			16.1.63	JT 83.894				
PROJECT	SYSTEM DIAGRAM T.U.02.00.0								
DESIGN	TYPE	0729 A							
VERIFY	DATE								
APPR	DATE								
									TU0200.0

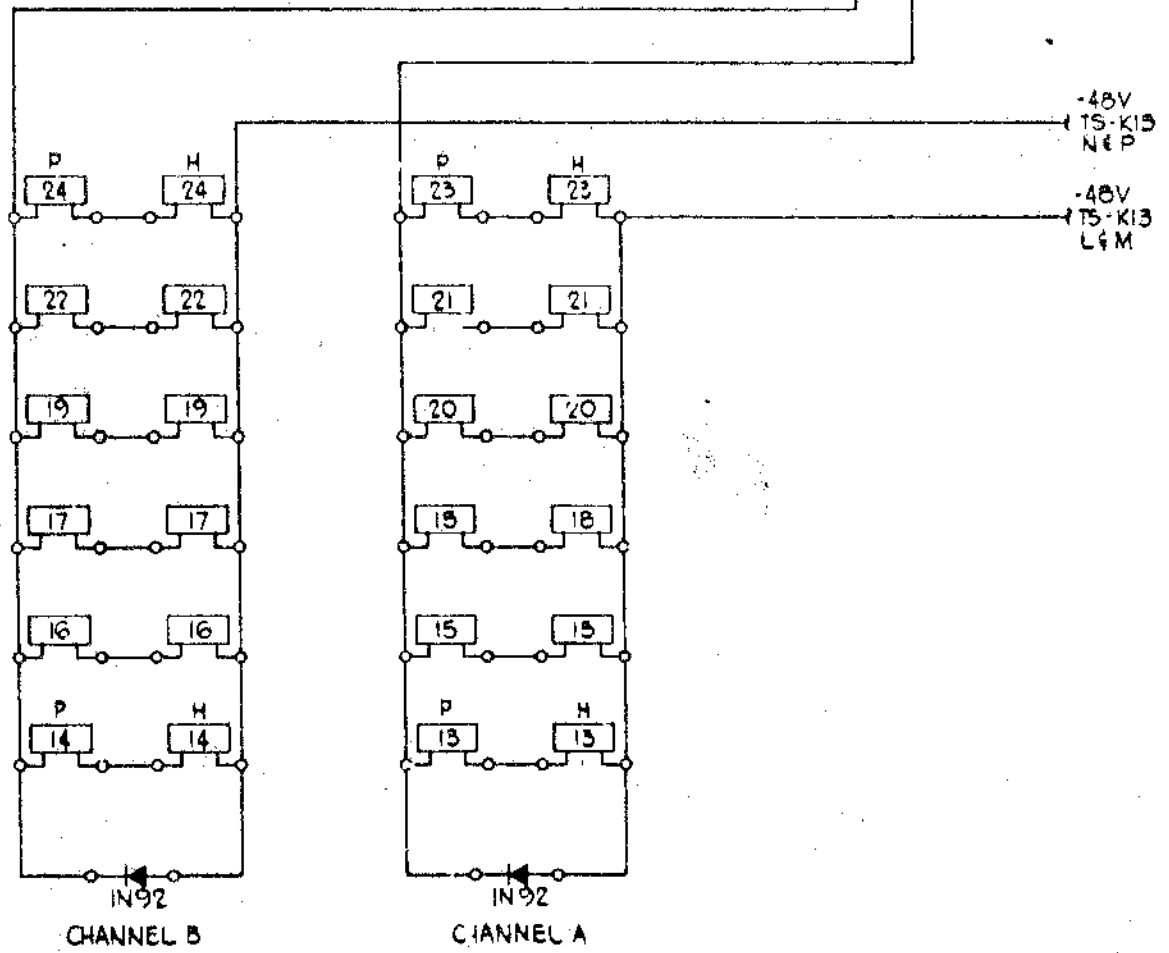
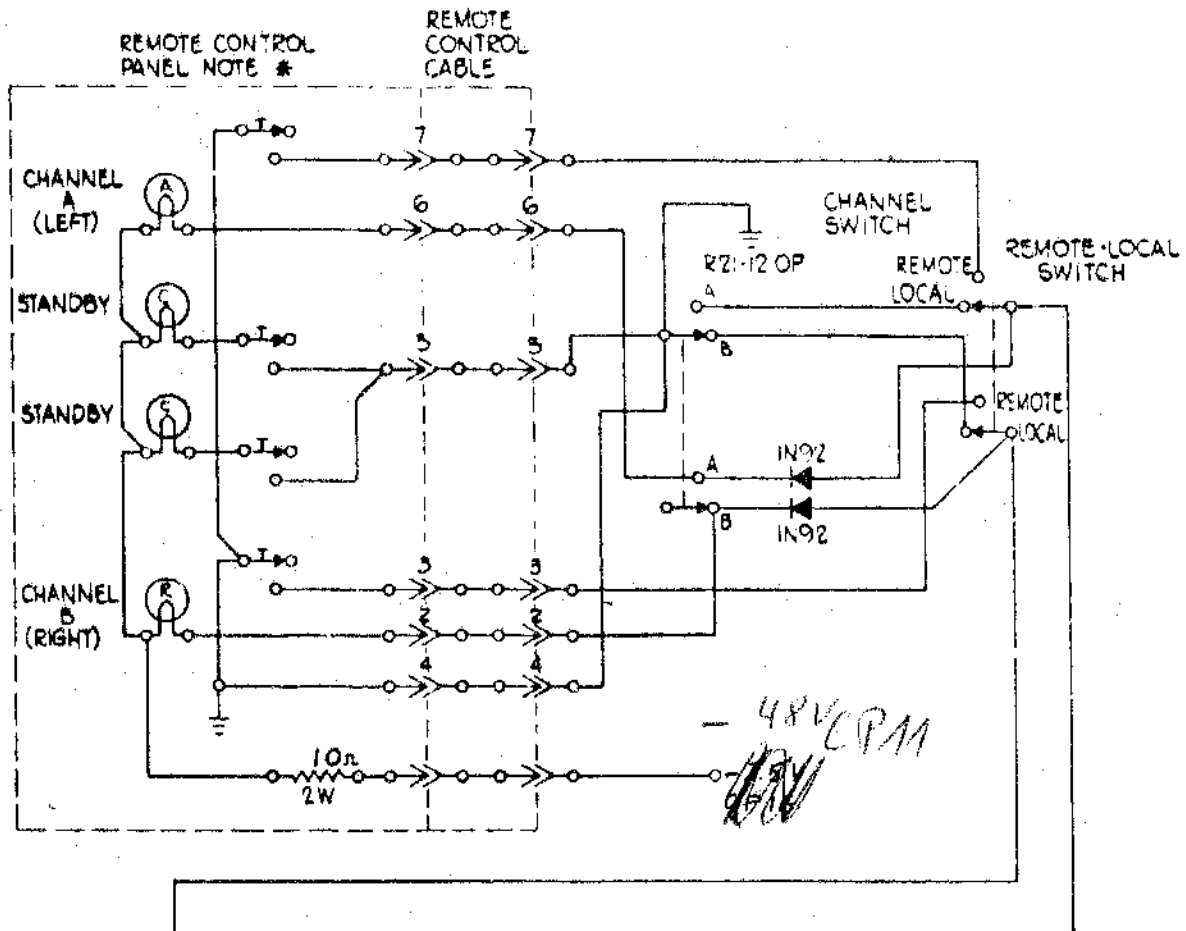
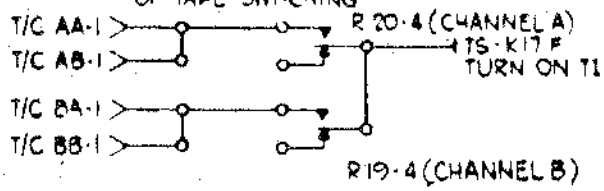


8018701

1102001

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

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SYSTEMS DIAGRAM				11.9.62	JT 81803A			I PRINT TO ENG. SPEC. NO. 8952	TU02001
TU 02 00.1				27.6.63	JT 81727				
DESIGNER	10-13-61	MODEL	729 JF						
DRAWN	10-13-61								
CHECKED	10-13-61	DRWN							
APPROVED	10-13-61	CHECK							

8018701

8016965

T/C CONNECTOR RECEPTACLE

5	SHIELD	SET READ STATUS	SHIELD	SET WRITE STATUS	SHIELD	START REWIND	8 SHIELD	BKWD	SHIELD	GO	SHIELD	TURN OFF T.I.	SHIELD	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 & RDY MOD II	SHIELD	SPARE	SHIELD	SPARE	16 SHIELD
45	SHIELD	SET LO-DENSITY	SHIELD	SET HI-DENSITY	SHIELD	REWIND UNLOAD	38 SHIELD	SEL & REWIND	SHIELD	SEL RDY & WRITE	SHIELD	SEL RDY & READ	SHIELD	91 SEL & RDY MOD II
60							53						HI-DENSITY LO-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 B	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 XI/XE	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						136
185	WRITE BUS C	SHIELD	WRITE BUS B	SHIELD	WRITE BUS A	SHIELD	178 WRITE BUS B	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	SHIELD	SPARE	SHIELD	SPARE	187 SHIELD	SPARE

4 select lines

not found previous notes

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SYSTEMS PROGRAM	6. 6. 62	JT 82900			X PRINT TO ENG. SPEC. NO. 895291	
TU02.10.0					DWG. SIZE - B	
						TU02.10.0

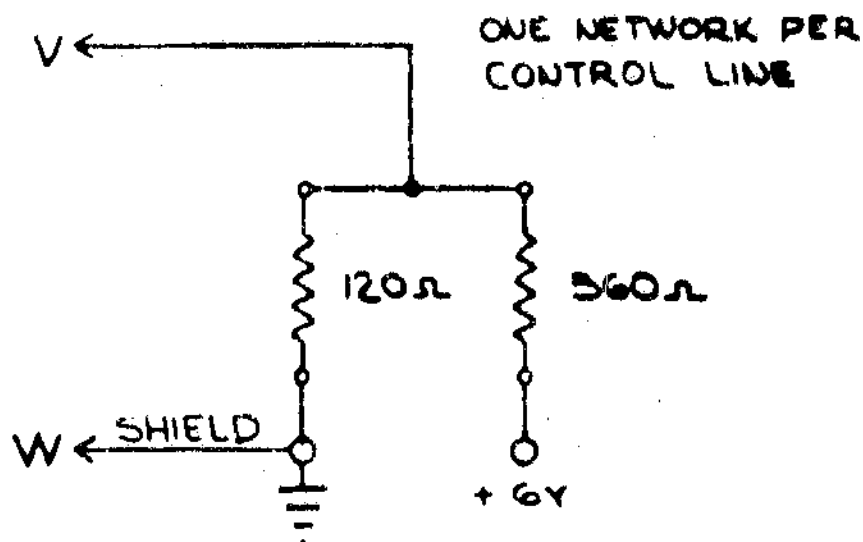
8016965

8016966

# TAPE SIGNAL TERMINATOR

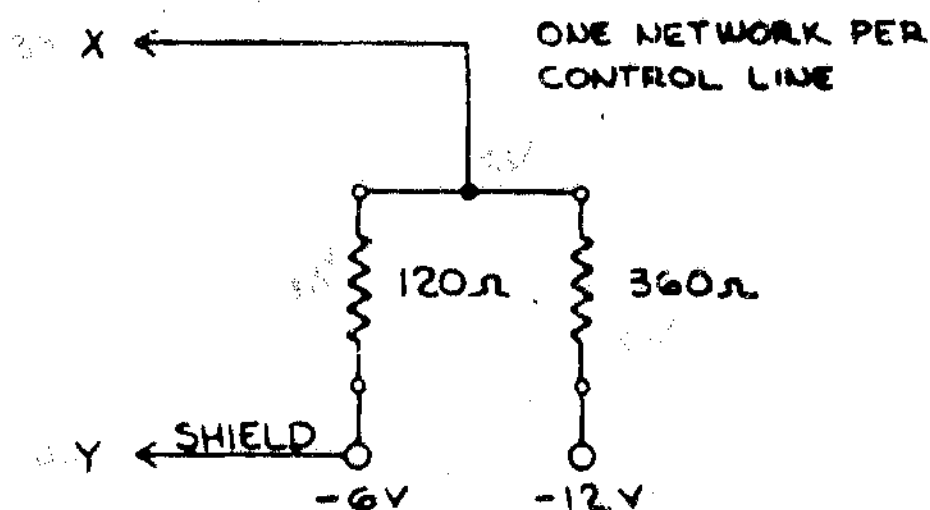
V	W
T/C 1	T/C 2
9	8
	0
	2
17	6
19	8
43	44
112	111
174	173
176	175
178	177
180	179
182	181
184	183
194	193
196	197

## "N" LINE COUPLING NETWORK



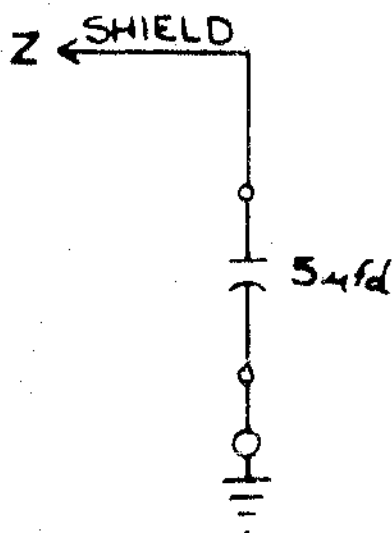
X	Y
T/C 3	T/C 4
5	6
13	14
39	40
41	42
77	76
79	78
86	87
88	89
97	96
99	98
106	107
108	109
117	116
119	118

## "P" LINE COUPLING NETWORK

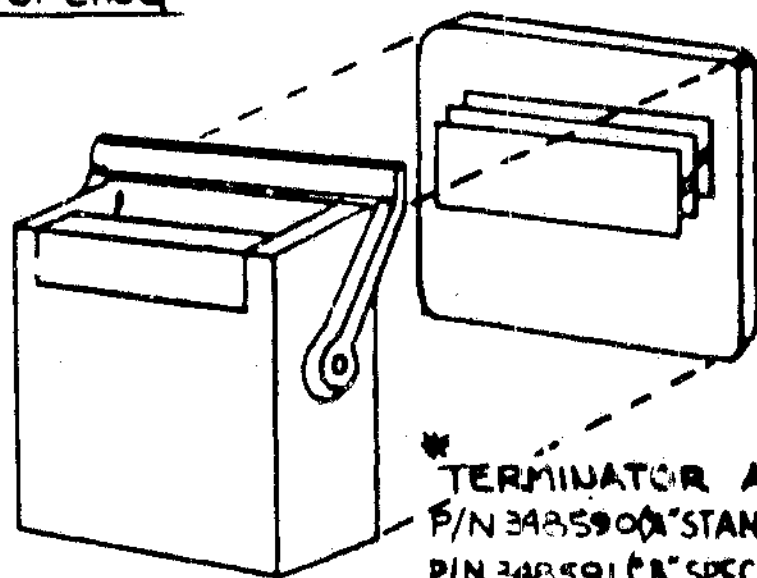


## RESPONSE LINE DECOUPLING

Z
T/C 20
22
24
26
28
32
34
36
38
40
52
54
56
58
60
70
72
74
114
193



ONE DECOUPLING CAPACITOR PER RESPONSE LINE.



\* TERMINATOR ASM.  
P/N 348590 (A) STANDARD  
P/N 348591 (B) SPECIAL

\* CONNECTED TO UNUSED TAPE UNIT SIGNAL CONNECTOR

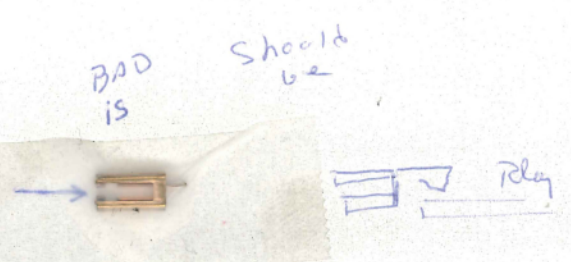
INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SYSTEMS DIAGRAM	6-6-62	JT 82900			E PRINT TO ENG. SPEC. NO. 895291	
TU02.20.0						
DESIGNER	DATE	MODEL				
CHKD BY						
APPROVED						
					DWG. SIZE B	TU 02.20.0

8016966



INPUT-OUTPUT LINES WITH TAPE SWITCHING FEATURE

T/C	LINE NAME	CONNECTOR	PAGE	CHANNEL A	CHANNEL B
7	-M BKWD		0 A3K17B TU08001	R20-02	R19-02
8	BKWD	SHIELD	00A3K17A TU08001	R20-01	R19-01
5	6P GO		0 A3K15F TU08001	R18-10	R17-10
6	GO	SHIELD	00A3K15E TU08001	R18-09	R17-09
47	6P HIGH DENSITY		00A3K13B TU08101	R15-10	R16-10
46	HIGH DENSITY	SHIELD	00A3K13A	R15-09	R16-09
82	READ BUS 1		TU07000	R13-09	R14-09
83	READ BUS 1	SHIELD		R13-10	R14-10
84	READ BUS 2		TU07000	R13-08	R14-08
85	READ BUS 2	SHIELD			
93	READ BUS 4		TU07000	R13-07	R14-07
92	READ BUS 4	SHIELD			
95	READ BUS 8		TU07000	R13-06	R14-06
94	READ BUS 8	SHIELD			
102	READ BUS A		TU07000	R13-05	R14-05
103	READ BUS A	SHIELD			
104	READ BUS B		TU07000	R13-04	R14-04
105	READ BUS B	SHIELD			
113	READ BUS C		TU07000	R13-03	R14-03
112	READ BUS C	SHIELD			
17	RESERVED				
16	RESERVED	SHIELD			
49	RESERVED				
48	RESERVED	SHIELD			
39	6P REWIND & UNLOAD		00A3K15H TU08001	R18-11	R17-11
40	REWIND & UNLOAD	SHIELD	00A3K15G		
31	6P SEL & RDY M2		00A3K13D TU08101	R15-12	R16-12
32	SEL & RDY M2	SHIELD	00A3K13C	R15-11	R16-11
21	6P SEL & RDY M4		00A3K13D TU08101	R15-12	R16-12
20	SEL & RDY M4	SHIELD	00A3K13C	R15-11	R16-11
37	-M SEL & REW		00A3K13K TU08101	R18-06	R17-06
38	SEL & REW	SHIELD	00A3K13J	R18-05	R17-05
24	SEL & TI OFF		00A3K13G	R18-03	R17-03
25	-M SEL & TI OFF	SHIELD	00A3K13H TU08001	R18-04	R17-04
23	-M SEL & TI ON		00A3K13F TU08101	R18-02	R17-02
22	SEL & TI ON	SHIELD	00A3K13E	R18-01	R17-01
29	6P SEL & NOT LP		00A3K11K TU08101	R15-08	R16-08
28	SEL & NOT LP	SHIELD	00A3K11J	R15-07	R16-07
27	6P SEL & LP		00A3K11H TU08101	R15-06	R16-06
26	SEL & LP	SHIELD	00A3K11G	R15-05	R16-05
33	6P SEL RDY & READ		00A3K11F TU08101	R15-04	R16-04
34	SEL RDY & READ	SHIELD	00A3K11E	R15-03	R16-03
35	6P SEL RDY & WRITE		00A3K11D TU08101	R15-02	R16-02
36	SEL RDY & WRITE	SHIELD	00A3K11C	R15-01	R16-01
77	6P SEL TU 0		TU08301	R21-03	R22-03
76	SEL TU 0	SHIELD			
79	6P SEL TU 1		TU08301	R21-04	R22-04
78	SEL TU 1	SHIELD			
86	6P SEL TU 2		TU08301	R21-05	R22-05
87	SEL TU 2	SHIELD			
88	6P SEL TU 3		TU08301	R21-06	R22-06
89	SEL TU 3	SHIELD			
97	6P SEL TU 4		TU08301	R21-07	R22-07
96	SEL TU 4	SHIELD			
99	6P SEL TU 5		TU08301	R21-08	R22-08
98	SEL TU 5	SHIELD			



Pins on relays  
COUNT RIGHT TO LEFT.

1 60-80000-1  
2 60-80000-2  
11.9.62 JT 81803A  
16.1.63 JT 83894



INPUT-OUTPUT LINES WITH TAPE SWITCHING FEATURE

T/C	LINE NAME	CONNECTOR	PAGE	CHANNEL A	CHANNEL B
106	6P SEL TU 6		TU08301	R21-09	R22-09
107	SEL TU 6	SHIELD			
108	6P SEL TU 7		TU08301	R21-10	R22-10
109	SEL TU 7	SHIELD			
117	6P SEL TU 8		TU08301	R13-01	R14-01
118	SEL TU 8	SHIELD			
119	6P SEL TU 9		TU08301	R13-02	R14-02
118	SEL TU 9	SHIELD			
41	6P SET HI DENSITY		00A3K17R TU08001	R18-12	R17-12
42	SET HI DENSITY	SHIELD	00A3K17Q		
43	-M SET LO DENSITY		00A3K17H TU08001	R20-05	R19-05
44	SET LO DENSITY	SHIELD	00A3K17J		
13	6P SET READ STATUS		00A3K17P TU08001	R20-10	R19-10
14	SET READ STATUS	SHIELD	00A3K17N TU08001	R28-09	R19-09
11	-M SET WR STATUS		00A3K17D TU08001	R20-03	R19-03
12	SET WR STATUS	SHIELD	00A3K17C		
19	SPARE				
18	SPARE	SHIELD			
113	SEL R RDY MODY V			R20-12	R19-12
114	SEL R RDY MODY W	SHIELD		R20-11	R19-11
122	SPARE				
123	SPARE	SHIELD			
124	SPARE				
125	SPARE	SHIELD			
186	SPARE				
187	SPARE	SHIELD			
188	SPARE				
189	SPARE	SHIELD			
190	SPARE				
191	SPARE	SHIELD			
9	-M START REWIND		00A3K17K TU08001	R20-07	R19-07
10	START REWIND	SHIELD	00A3K17J TU08001	R20-06	R19-06
1	-M TURN ON T1		00A3K17F TU08001	R20-04	R19-04
2	TURN ON T1	SHIELD	00A3K17E		
3	6P TURN OFF T1		00A3K15D TU08001	R18-08	R17-08
4	TURN OFF T1	SHIELD	00A3K15C TU08001	R18-07	R17-07
172	-M WR BUS 1		00A3K09B TU08001	R23-02	R24-02
171	WR BUS 1	SHIELD	00A3K09A TU08001	R23-01	R24-01
174	-M WR BUS 2		00A3K09D TU08001	R23-03	R24-03
173	WR BUS 2	SHIELD	00A3K09C		
176	-M WR BUS 4		00A3K09F TU08001	R23-04	R24-04
175	WR BUS 4	SHIELD	00A3K09E		
178	-M WR BUS 6		00A3K09H TU08001	R23-05	R24-05
177	WR BUS 6	SHIELD	00A3K09G		
180	-M WR BUS A		00A3K09K TU08001	R23-07	R24-07
179	WR BUS A	SHIELD	00A3K09J TU08001	R23-06	R24-06
182	-M WR BUS B		00A3K09M TU08001	R23-08	R24-08
181	WR BUS B	SHIELD	00A3K09L		
184	-M WR BUS C		00A3K09P TU08001	R23-09	R24-09
183	WR BUS C	SHIELD	00A3K09N		
196	WR PULSE		00A3K09R TU08001	R23-10	R24-10
197	WR PULSE	SHIELD	00A3K09Q		
192	WRITE ECHO		00A3K11B TU08101	R23-12	R24-12
193	WRITE ECHO	SHIELD	00A3K11A	R23-11	R24-11
194	WRITE CHECK CHAR		00A3K17M TU08001	R20-08	R19-08
195	WRITE CHECK CHAR	SHIELD	00A3K17L		

11-9-62 JT 81603A  
16-1-63 JT 83894

8016967

CIRCUIT CARD LOCATION CHART  
Read Preamplifiers

	J	K	L	M
01		BJ-- 0371432 TU.07.00.0 2A	ARL- 0370707 TU.07.00.0 1A 3A	ARK- 0370706 TU.07.00.0 4A
02		BJ-- 0371432 TU.07.00.0 2B	ARL- 0370707 TU.07.00.0 1B 3B	ARK- 0370706 TU.07.00.0 4B
03		BJ-- 0371432 TU.07.00.0 2C	ARL- 0370707 TU.07.00.0 1C 3C	ARK- 0370706 TU.07.00.0 4C
04		BJ-- 0371432 TU.07.00.0 2D	ARL- 0370707 TU.07.00.0 1D 3D	ARK- 0370706 TU.07.00.0 4D
05		BJ-- 0371432 TU.07.00.0 2E	ARL- 0370707 TU.07.00.0 1E 3E	ARK- 0370706 TU.07.00.0 4E
06		BJ-- 0371432 TU.07.00.0 2F	ARL- 0370707 TU.07.00.0 1F 3F	ARK- 0370706 TU.07.00.0 4F
07		BJ-- 0371432 TU.07.00.0 2G	ARL- 0370707 TU.07.00.0 1G 3G	ARK- 0370706 TU.07.00.0 4G
08				

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM				6.6.62	JT 82900			X PRINT TO ENG. SPEC. 1:0 855291	
TU.04.10.0									
DESIGN	R.R.	9-18-61	MODEL	729 I					
DETAIL									
CHECK	L.H.	9-18-61	DRAW						
APPRO	R.S.	9-18-61	CHECK						TU.04.10.0

6-27-62

0016967



	A	B	C	D	E	F	G	H	J	K
01										
02										
03		<p>MB- 0371880 TU.09.30.2 1A</p>	<p>MX- 0371661 TU.09.10.1 1A TU.09.10.1 3A TU.09.10.1 3C TU.09.10.1 5D</p>	<p>CU- 0371029 TU.09.25.1 4A TU.09.25.1 5A TU.09.55.1 5E</p>	<p>BRVZ 0371423 TU.09.10.1 2B</p>		<p>NH- 0371666 TU.1.00.1 1B TU.1.00.1 2B TU.1.00.1 2B</p>			<p>556 981 TU 95.00.2</p> <p>CAPACITOR CARD</p>
04			<p>MX- 0371661 TU.09.10.1 1B TU.09.10.1 2C TU.09.15.1 2E TU.09.15.1 3F</p>	<p>MX- 0371661 TU.08.00.1 2F TU.09.45.1 2C TU.09.25.1 4B TU.09.55.1 2C</p>		<p>NH- 0371666 TU.1.00.1 1D TU.1.00.1 1E TU.1.00.1 1E TU.1.00.1 2E</p>				
05			<p>CD- 0371029 TU.09.10.1 3B TU.09.10.1 5A TU.09.10.1 5B TU.09.15.1 2B</p>	<p>CD- 0371029 TU.09.25.1 5C TU.09.25.1 5F TU.09.25.1 5G</p>	<p>YAW- 0370492 TU.09.35.1 4B</p>					
06			<p>CEYB 0371032 TU.09.10.1 2A TU.09.15.1 3D TU.09.15.1 4B TU.09.25.1 3F</p>	<p>MX- 0371661 TU.09.25.1 3C TU.09.25.1 4F TU.09.25.1 4G TU.09.60.1 1C</p>	<p>YAW- 0370492 TU.09.35.1 5D</p>				<p>T G 8.023.359 TU 11001 1A</p>	
07			<p>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 1A</p>							
08			<p>MX- 0371661 TU.09.10.1 3F TU.09.10.1 4F TU.09.10.1 4G TU.09.35.1 2H</p>	<p>CEYB 0371032 TU.09.25.1 3A TU.09.25.1 3B TU.09.30.1 2G TU.09.30.1 3A</p>	<p>DAC- 0371951 TU.09.55.1 3E TU.09.55.1 3F TU.09.55.1 4D</p>					
09			<p>DAX- 0370084 TU.09.15.1 3A TU.09.15.1 1B TU.09.15.1 1D TU.09.55.1 1C</p>	<p>MH- 0371487 TU.09.25.1 1C TU.09.30.1 2F TU.09.40.1 5F TU.09.40.1 5G</p>	<p>MX- 0371661 TU.09.55.1 1A TU.09.55.1 1B TU.09.00.1 4H</p>					
10			<p>MX- 0371661 TU.09.15.1 4A TU.09.15.1 4B TU.09.15.1 4C TU.09.15.1 4D</p>	<p>MX- 0371661 TU.09.30.1 1C TU.09.30.1 2C TU.09.30.1 4F TU.09.30.1 4G</p>						
11			<p>MH- 0371487 TU.09.15.1 1C TU.09.15.1 2A TU.09.15.1 2G TU.09.15.1 3E</p>	<p>MX- 0371661 TU.09.30.1 1E TU.09.30.1 4E TU.09.35.1 4G TU.09.35.1 5H</p>						
12		<p>MD 0371497 TU.09.45.1 1D</p>	<p>MX- 0371661 TU.09.15.1 4A TU.09.15.1 4F TU.09.15.1 5A TU.09.15.1 5F</p>	<p>MX- 0371661 TU.09.35.1 2E TU.09.35.1 3G TU.09.35.1 4C TU.09.35.1 4H</p>		<p>MX- 0371661 TU.09.00.1 1B TU.09.00.1 4B TU.09.00.1 1D TU.09.50.1 5C</p>	<p>APH- 0370442 TU.09.10.1 3A TU.09.10.1 5B TU.09.10.1 5C TU.09.10.1 5D</p>			
13			<p>CD- 0371029 TU.09.15.1 3C TU.09.15.1 4D TU.09.15.1 5B</p>	<p>MX- 0371661 TU.09.35.1 1F TU.09.35.1 2F TU.09.35.1 3A TU.09.50.2 4H</p>		<p>TAU- 0370129 TU.09.00.1 2H TU.09.00.1 4F TU.09.55.1 2E TU.09.55.1 4E</p>	<p>APH- 0370442 TU.09.10.1 3B TU.09.10.1 4E TU.09.10.1 5E TU.09.10.1 2C</p>			
14		<p>MB- 0371880 TU.09.30.2 1B</p>	<p>MX- 0371661 TU.09.15.1 4C TU.09.15.1 4E TU.09.15.1 4H TU.09.15.1 5E</p>			<p>MX- 0371661 TU.09.00.1 2A TU.09.00.1 4A TU.09.00.1 4B TU.09.55.1 1E</p>	<p>APH- 0370441 TU.09.10.1 2A TU.09.10.1 4C TU.09.10.1 4H TU.09.10.1 4I</p>			



	A	B	C	D	E	F	G	H	J	
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.09.30.2 2E	MD- 0371497 TU.07.10.1 2B TU.09.35.1 1B TU.09.60.1	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.09.40.1 3D TU.09.40.1 4D TU.09.55.1 5C				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 2F 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.09.30.2 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					APE- 0370639 TU.08.00.1 1G TU.08.00.1 1H	
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.09.30.2 2B	MD- 0371497 TU.07.10.1 4A TU.09.45.1 2E 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 5C TU.09.45.1 5I	CD- 0371029 TU.09.45.1 5B TU.09.55.1 3B TU.09.55.1 4A			MH- 0371048 TU.07.10.4 4A TU.07.10.4 4B 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 3B TU.09.45.1 3B TU.09.45.1			MH- 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.09.30.2 1B	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.09.30.2 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 2A TU.07.10.1 2B TU.07.10.1 2C	AYWS 0371041 TU.07.10.2 5E	AR- 0371034 TU.07.10.2 4E	LZ- 0371674 TU.07.10.2 3E	YEU- 0370668 TU.07.10.2 1A TU.07.10.2 1B TU.07.10.2 1C TU.07.10.2 2D
25			MX- 0371661 TU.09.60.1 3H 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		APF- 0370639 TU.07.10.1 3I TU.07.10.1 4I	AYWS 0371041 TU.07.10.2 5D	AR- 0371034 TU.07.10.2 4B	LZ- 0371674 TU.07.10.2 3D	
26	WB- 0371880 TU.09.30.2 2I	MD- 0371497 TU.09.30.1 TU.09.35.1 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		APF- 0370639 TU.07.10.1 4B TU.07.10.1 4H TU.07.10.1 4B	AYWS 0371041 TU.07.10.2 5C	AR- 0371034 TU.07.10.2 4C	LZ- 0371674 TU.07.10.2 3C	YEU- 0370668 TU.07.10.2 1E TU.07.10.2 1F TU.07.10.2 2E
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.13.00.1 4C TU.13.00.1 4D		APF- 0370639 TU.07.10.1 5D	AYWS 0371041 TU.07.10.2 4B	AR- 0371034 TU.07.10.2 4B	LZ- 0371674 TU.07.10.2 3B	
28	YHM- 0370701 TU.09.30.1 TU.09.30.1 TU.09.30.1	MD- 0371497 TU.09.20.1 TU.09.25.1 TU.09.40.1 1E	OH- NOTE 0371679 TU.13.00.1 5B	OH- NOTE 0371680 TU.13.00.1 2E		APF- 0370639 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	

LUV



8020515

## CIRCUIT PROTECTOR CHART

TU05.00.0

## A.C. C.P.

CP #	VOLTAGE	CURRENT	FUNCTION	PART NO.
1	208	8A	Ø1 LINE	8016931
2		8A	Ø1 POWER SUPPLY	8016931
3		8A	Ø2 LINE	8016931
4		8A	Ø3 LINE	8016931
5		0.5A	Ø3 GATE BLOWER	8015706
6		2A	Ø3 VAC PUMP Ø2 PRES BLOWER	8021667
7		0.5A	Ø2 GATE BLOWER	8015706
8		2A	Ø3 VAC PUMP Ø1 PRES BLOWER	8021667
9		3A	Ø2 CAP & TAKE UP	2092387
10	208	3A	Ø3 CAP & TAKE UP	2092387
18	133	2A	7.5V SUPPLY	8011178

Note II

## D.C. C.P.

CP #	VOLTAGE	CURRENT	PART NO.
11	-48	3A	8011179
12	-12	4A	8021670
13	-6	4A	8021670
14	+6	4A	8021670
15	+12	4A	8021670
16	-75	10A	8016938
17	+140	1A	8011177

NOTES. I ON SOME MACHINES, THE CIRCUIT PROTECTORS LISTED  
HEREAFTER HAVE BEEN INSTALLED IN REPLACEMENT OF  
THOSE SPECIFIED IN THE TWO ABOVE CHARTS (AC CP AND DC CP).

CP	P/N	RATING
----	-----	--------

CP 13	8011179	3A
CP 15	8011178	2A
CP 16	8021216	20A

ANY REPLACEMENT OF THESE CIRCUIT PROTECTORS SHALL  
HOWEVER BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS  
OF THE TWO ABOVE CHARTS. (AC CP AND DC CP)

II. Tape units WITH JT 82816A DO NOT HAVE CP'S 5 & 7

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM		20.12.62	JT 83895A			I PRINT TO ENG. SPEC. NO. 895291	TU05.00.0
TU05.00.0							
DESIGN	LFC 6-20-61	MODEL	729A I II				
CHECK	LFC 7-5-61	DRAW	DBI 6-28-61				
APPRO	RSR 7-5-61	CHECK					

8020515



2092735

## LOCATION CHART

TU06000

## DOUBLE POLE RELAYS

RELAY NO.	TYPE	PART NO.	COIL P.U.	POINTS		NAME
				A	B	
1	DP	8022374	TU10.00.1	TU16.00.0	TU16.00.0	PHASE 1
2	DP					PHASE 2 & 3
3	DP					CAPSTAN MOTORS
4	DP					VACUUM MOTOR
5	DP					REWIND MOTOR
6	DP					TAPE TAKE-UP START
7	DP	2067833				TAKE-UP REVERSE
8	DP	8022374	TU10.00.1	TU16.00.0	TU16.00.0	HEAD TAKE-UP MOTOR

## DUO RELAYS

RELAY NO.	TYPE	PART NO.	COIL P.U.	POINTS				NAME
				AU	AL	BU	BL	
9	DUO	124843	TU10.00.1	TU15.00.0	TU15.00.0	TU15.00.0	TU15.00.0	140 VOLT CONTROL
10	DUO	124843	TU10.00.1	TU15.00.0				REWIND
11	DUO	530731	TU10.00.1		TU12.00.1		TU11.00.1	NOT FILE PROTECT
12	DUO	111351	TU10.00.1		TU10.00.1		TU10.00.1	NOT FILE PROTECT I

## CONTACTOR

NO.	PART NO.	LOCATION	NAME
K1	2092519	TU16.00.0	POWER ON

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM		6.6.62	JT 82900			I PRINT TO ENG. SPEC. NO. 895291	
TU06000							
DESIGN	LFC 6-20-61	DRWG	729 A I II				
CHECK	LFC 7-2-61	DRWG	101 6-28-61				
APPROV	RSR 7-5-61	DRWG				LWG. SPEC. IS	TU06000

2092735

LOCATION CHARTS

8018771

KEYS AND SWITCHES

NAME	LOCATION
CAPSTAN IN SWITCH-LEFT	TU 11.00.1
CAPSTAN IN SWITCH-RIGHT	TU 11.00.1
CAPSTAN OUT SWITCH-LEFT	TU 11.00.1
CAPSTAN OUT SWITCH-RIGHT	TU 11.00.1
DOOR CLOSED INTERLOCK	TU 11.00.1
HEAD DOWN SWITCH	TU 11.00.1
HEAD UP SWITCH	TU 11.00.1
H.S. REW THERMAL CUT OUT	TU 11.00.1
LOAD REWIND P.B.	TU 11.00.1
REEL RELEASE P.B.	TU 11.00.1
RESET P.B.	TU 11.00.1
START P.B.	TU 11.00.1
TAPE IN COL SW-LEFT	TU 11.00.1
TAPE IN COL SW-RIGHT	TU 11.00.1
TIME DELAY SW	TU 11.00.1
UNLOAD P.B.	TU 11.00.1
VACUUM COL SW-LEFT	TU 15.00.0
VACUUM COL SW-RIGHT	TU 15.00.0
VACUUM OFF BELLOWS SW	TU 11.00.1
SELECTOR SW	TU 08.30.1
CHANGE DENSITY P.B.	TU 11.00.1
POWER ON-OFF SW.	

RESIST. AND VARIABLE RESISTORS

NO	PART NO	LOC	NAME
14	2045325	TU 15.00.0	TAPE WRINKLING
15	8016831	TU 09.10.1	POWER SUPPLY - 48V
16	8016804	TU 15.00.0	+140 LEFT CLUTCHES
17	8016804	TU 15.00.0	+140 RIGHT CLUTCHES
18	8016805	TU 15.00.0	-48 LEFT & RIGHT CLUTCHES
19	252816	TU 09.30.1	HSA AREA LAMP
20	252816	TU 09.55.1	T.I. & L.P. LAMPS
21	252816	TU 09.55.1	TAPE BREAK LAMP

PHOTO CELLS

LOC	NAME
TU 09.30.1	H.S. AREA
TU 09.55.1	LOAD POINT AND TAPE BREAK
TU 09.55.1	TAPE IND

LIGHTS AND LAMPS

NAME	LOCATION
FILE PROTECT LIGHT	TU 12.00.1
FUSE LIGHT	TU 12.00.1
H.S. AREA LAMP	TU 09.30.1
LOAD POINT LAMP	TU 12.00.1
READY LIGHT	TU 12.00.1
SELECT LIGHT	TU 12.00.1
TAPE BREAK LAMP	TU 12.00.1
TAPE INDICATE LAMP	TU 12.00.1
TAPE INDICATE ON LIGHT	TU 12.00.1
ADDRESS LIGHT	TU 12.00.1
LINE POWER	TU 16.00.0
MACHINE POWER	TU 16.00.0
HI AND LO DENSITY LIGHT	TU 12.00.1

DIODES

NO	PART NO	LOC
1	8013898	TU 10.00.1
2	8013898	TU 10.00.1
3	8013898	TU 10.00.1
4	8013898	TU 10.00.1
5	8013898	TU 10.00.1
6	8013898	TU 10.00.1
7	8013898	TU 10.00.1
8		TU 09.50.2
9		TU 09.50.2
10		TU 09.50.2
11		TU 09.50.2
12		TU 09.50.2
13		TU 09.50.2
15	8011020	TU 09.50.3
16	8011050	TU 10.00.1
17	8011050	TU 10.00.1
18	8013898	TU 10.00.1
19	8011050	TU 15.00.0
20	8011050	TU 15.00.0

POTENTIOMETERS

NO	PART NO	LOC	NAME
1	213930	TU 15.00.0	H.S.R. COAST CONT.
2	213930	TU 15.00.0	PARTIAL LF BRAKE CONT.
3	8016679	TU 15.00.0	TAPE WRINKLING POT
4	528481	TU 09.50.3	PROLAY-NEUTRAL
5	8015377	TU 09.50.3	PROLAY-DRIVE
7	8011018	TU 09.50.3	FWI GO DELAY

TIME METER

LOC	NAME
TU 16.00.0	READY METER

IBM				DATE	CHANG. N°	DATE	CHANG. N°	DATE	CHANG. N°
NOM	SYSTEME DIAGRAM			6.12.62	TT82071C				
TU 06.10.0									
PROJET		TYPE	729-III						
DESSIN		ECHELLE							
VERIF		CALO							
APPR	MDX	19.6.62	VERIF						

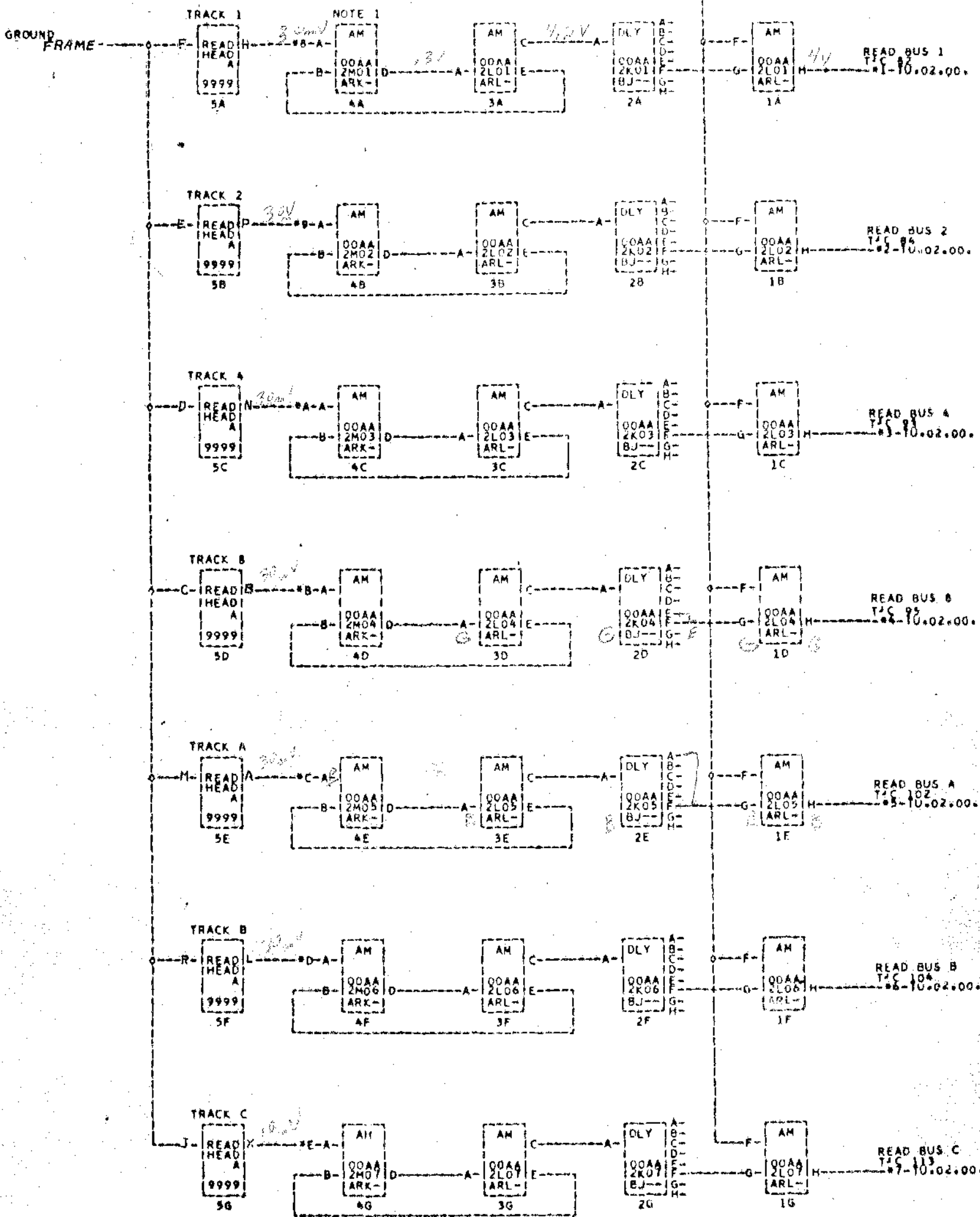
TU 06.10.0

11/1108



41 READ GATE  
TU.08.18.1 # F

Volts are P.F.  
writing 12



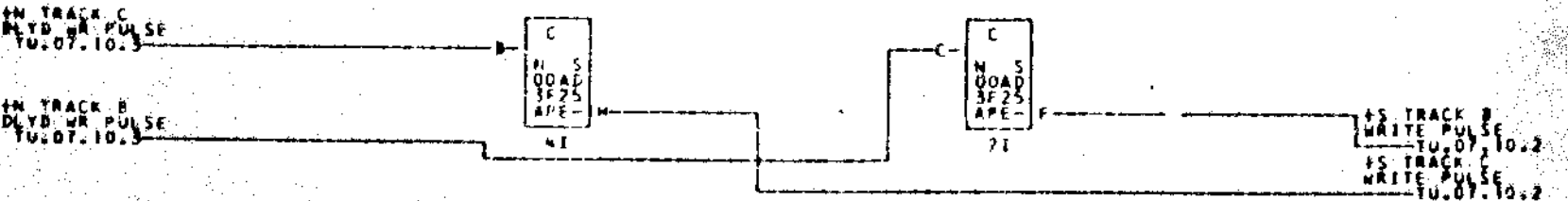
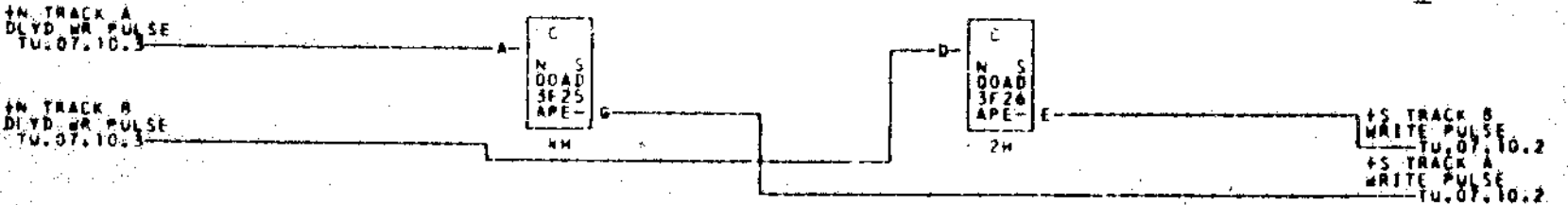
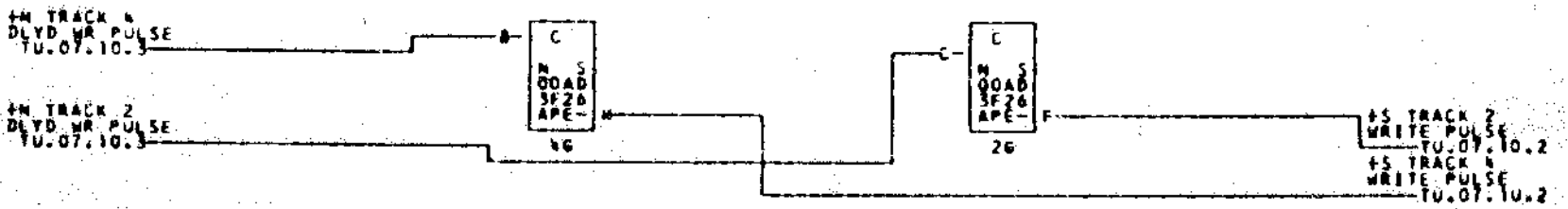
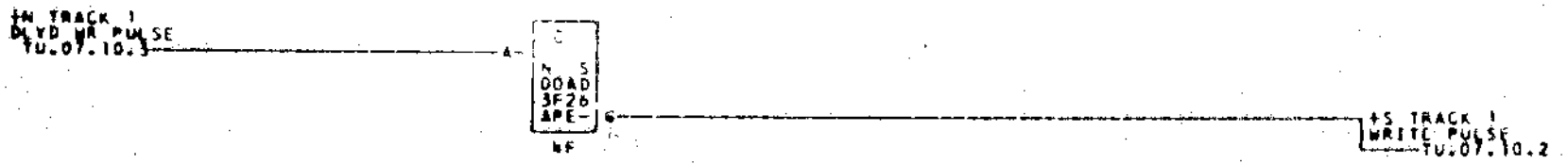
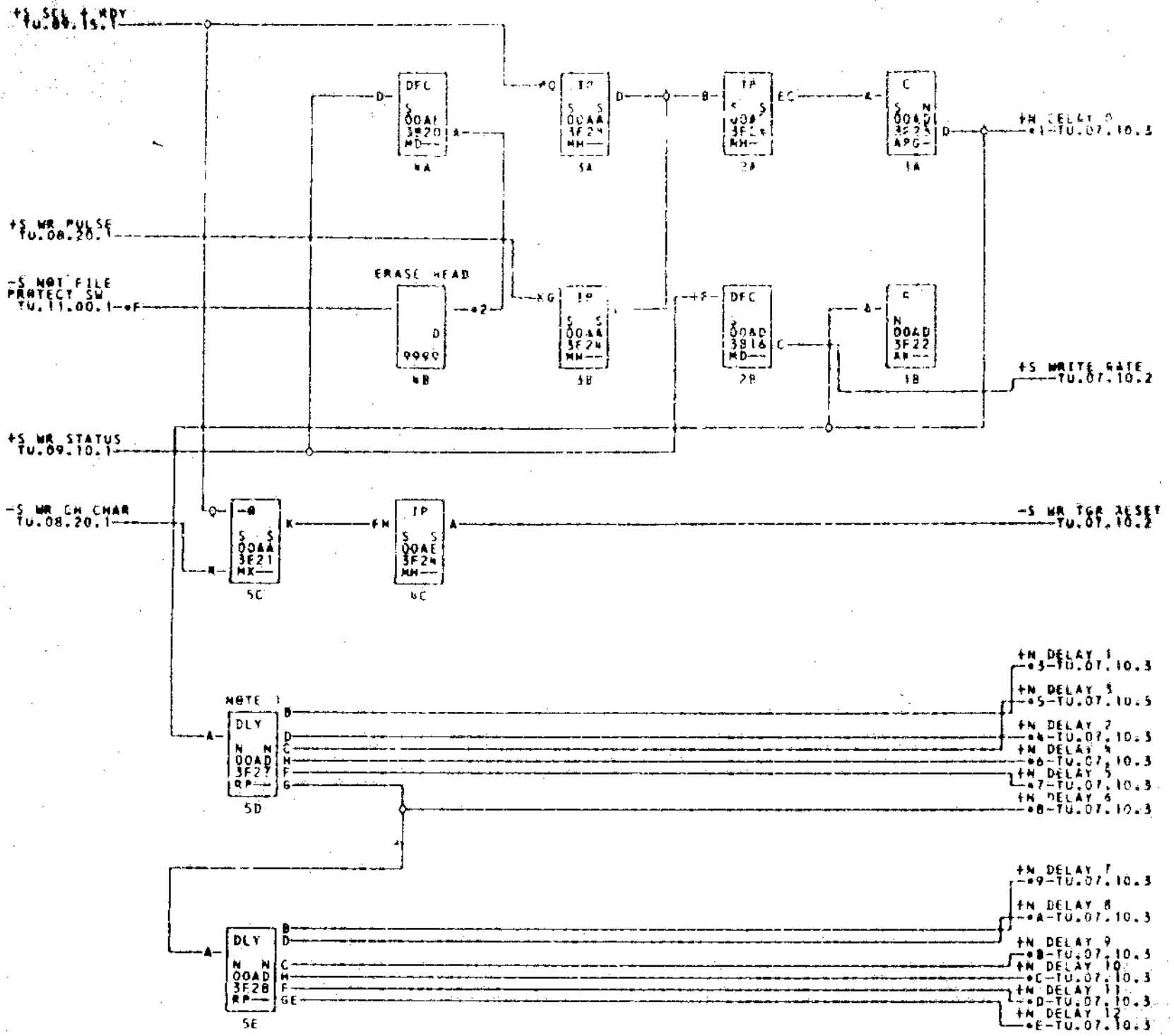
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- \*9--00A2-51C    \*A--00A2-51E    \*B--00A2-51G    \*C--00A2-52A    \*D--00A2-52C    \*E--00A2-52E
- \*F--00A2-54H

1

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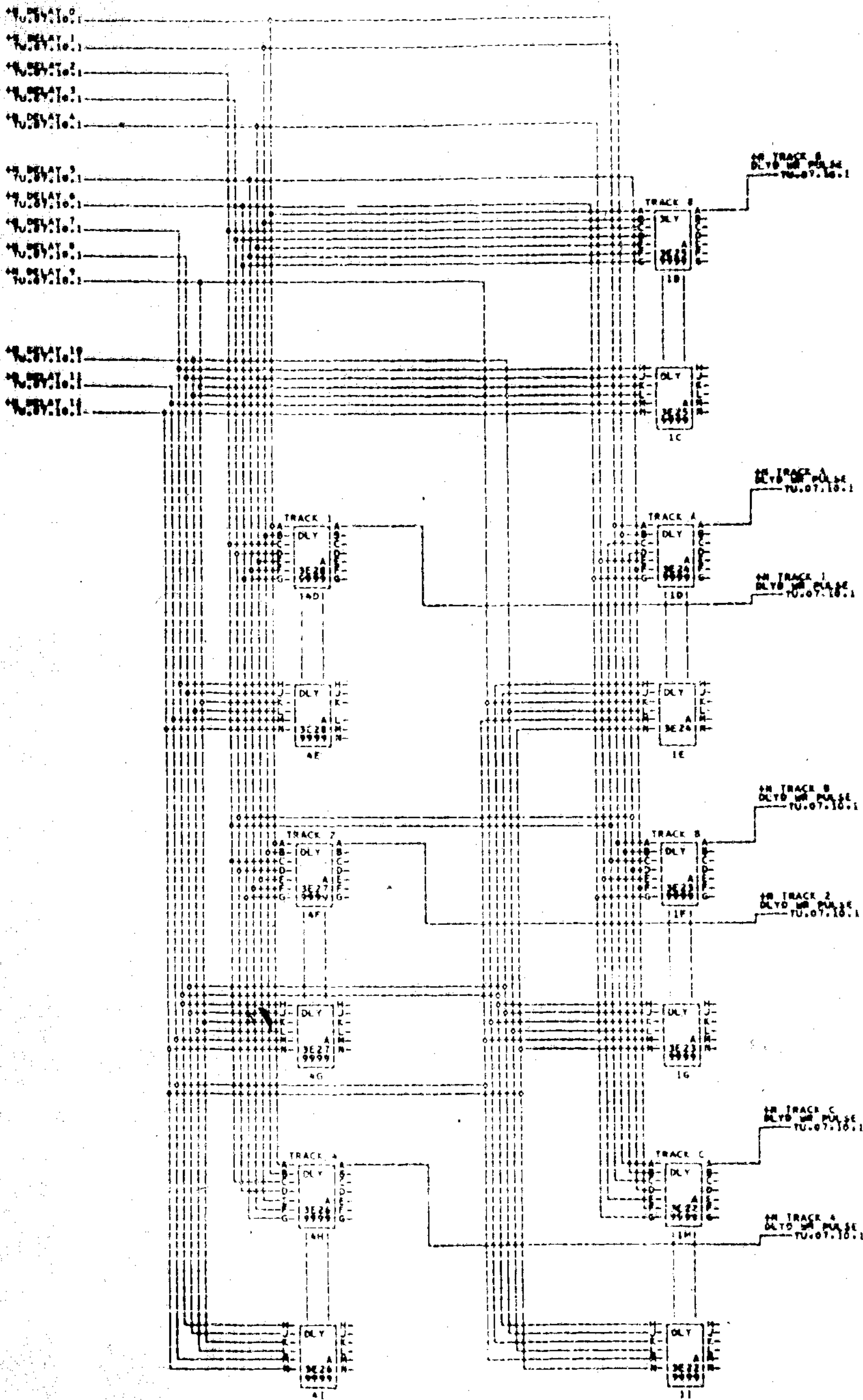
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31-7-62	JT 82900A
10-10-62	JT 82781



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- \*2-000MP-04
- \*3-00A3E026
- \*4-00A3E28B
- \*5-00A3E28C
- \*6-00A3E28D
- \*7-00A3E28E
- \*8-00A3E28F
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- \*A-00A3E024
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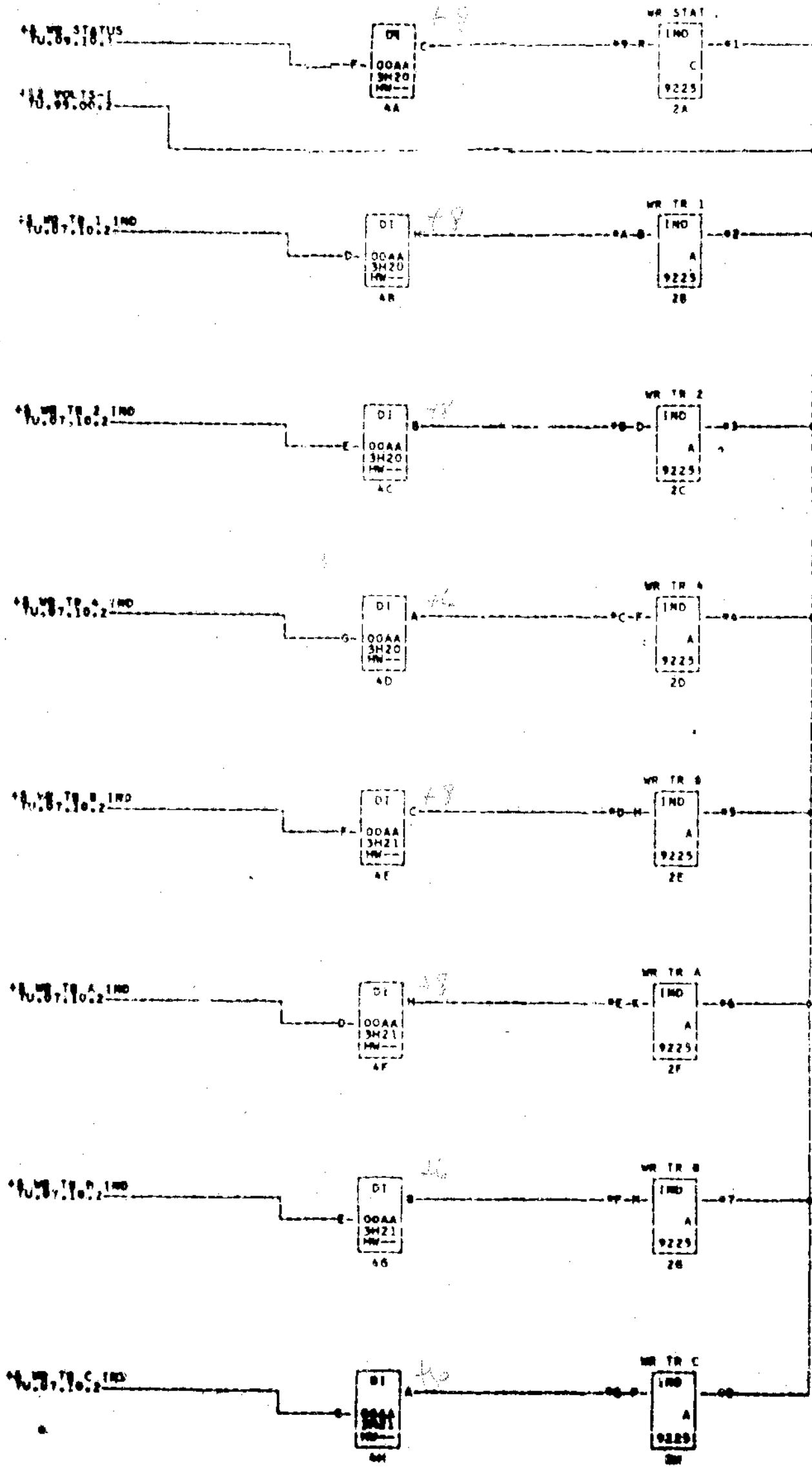




COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	09-07-61	249200	B	07-01-61	350103	C	10-15-61	350203	D	10-15-61	350203
E	11-28-61	250456	F	01-19-62	350907	G	01-19-62	350907	H	01-19-62	350907
				6 6 62	3702900						

1

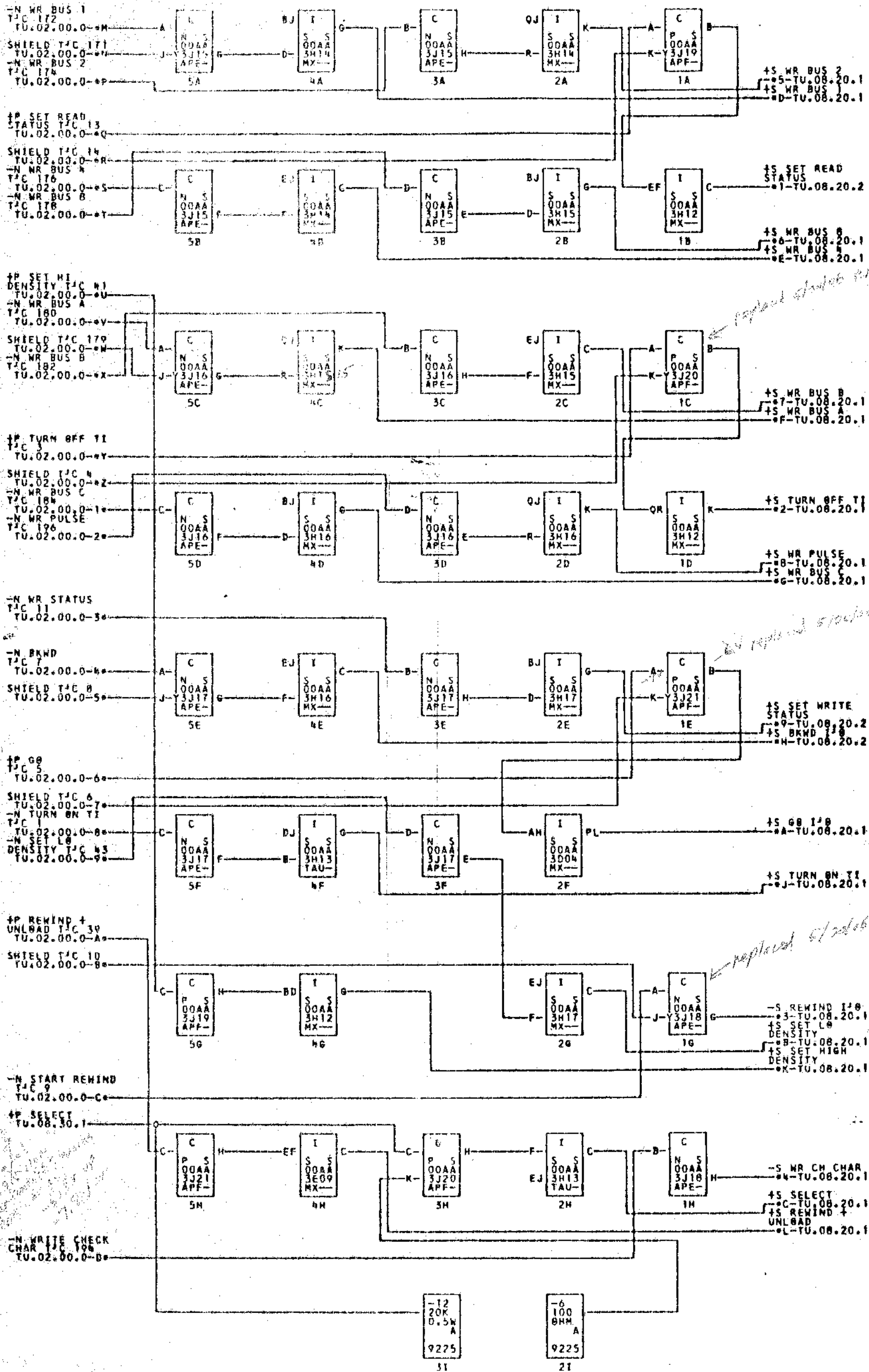


00000000 00000000 00000000 00000000 00000000 00000000  
 00000000 00000000 00000000 00000000 00000000 00000000

COMMENTS

AS DATE	E.C. NO.	AS DATE	E.C. NO.	AS DATE	E.C. NO.	AS DATE	E.C. NO.
8-07-62	100100	8-07-62	100100	8-07-62	100100	8-07-62	100100
				6-6-62	77	82500	

1



- \*1-00A3K21N
- \*2-00A3K21A
- \*3-00A3K21J
- \*4-00A3K21K
- \*5-00A3K25C
- \*6-00A3K25G
- \*7-00A3K25L
- \*8-00A3K25O
- \*9-00A3K23C
- \*A-00A3K21E
- \*B-00A3K23G
- \*C-00A3K21I
- \*D-00A3K25A
- \*E-00A3K25E
- \*F-00A3K25J
- \*G-00A3K25N
- \*H-00A3K23A
- \*J-00A3K23E
- \*K-00A3K23I
- \*L-00A3K21M
- \*M-00A3K09B
- \*N-00A3K09A
- \*P-00A3K09D
- \*Q-00A3K17P
- \*R-00A3K17N
- \*S-00A3K09F
- \*T-00A3K09H
- \*U-00A3K17R
- \*V-00A3K09K
- \*W-00A3K09J
- \*X-00A3K09M
- \*Y-00A3K15D
- \*Z-00A3K15C
- \*1-00A3K09P
- \*2-00A3K09R
- \*3-00A3K17D
- \*4-00A3K17B
- \*5-00A3K17A
- \*6-00A3K15F
- \*7-00A3K15E
- \*8-00A3K17F
- \*9-00A3K17N
- \*A-00A3K15M
- \*B-00A3K17J
- \*C-00A3K17K
- \*D-00A3K17M

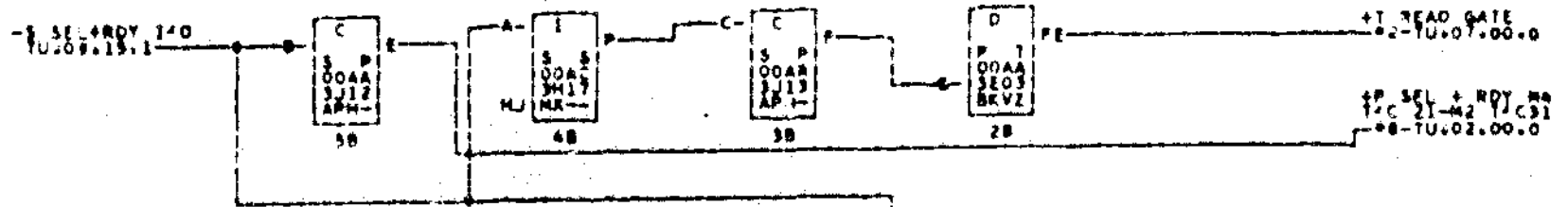
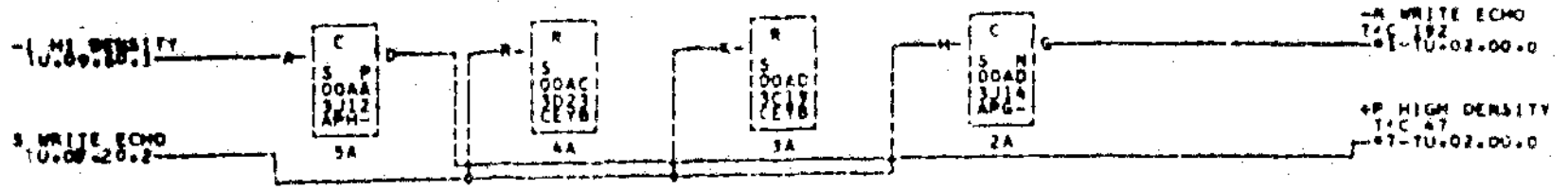


8016973

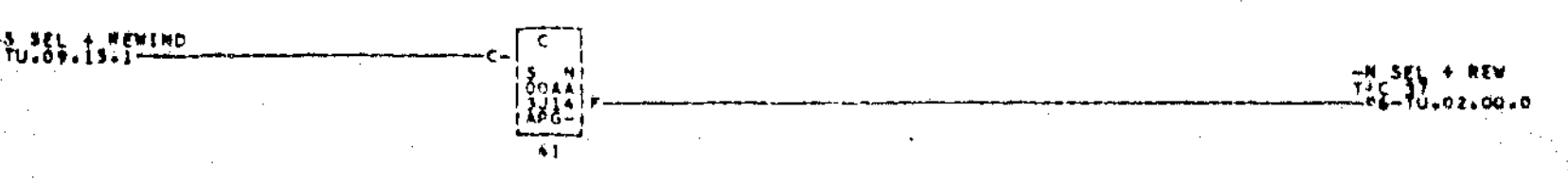
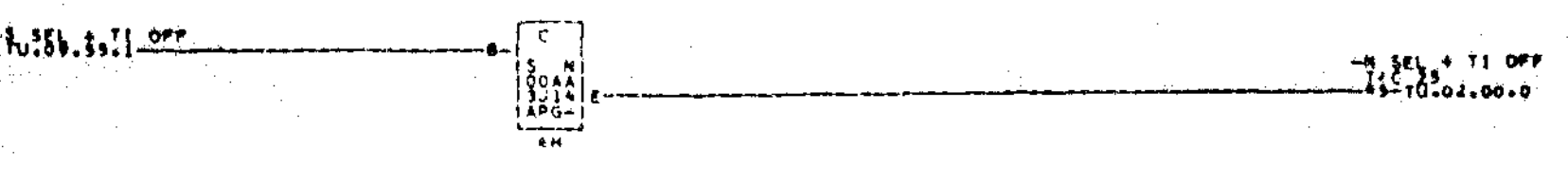
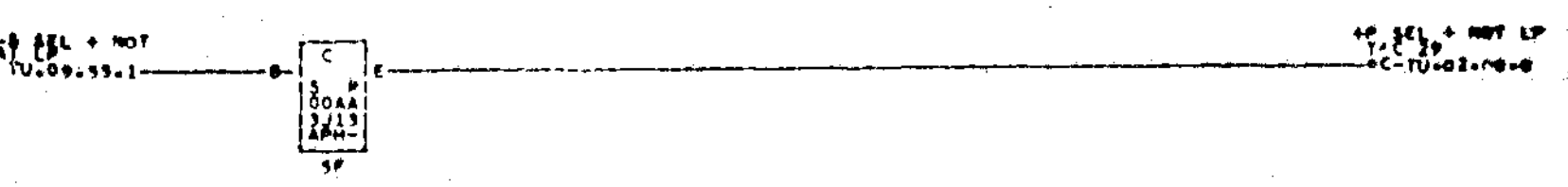
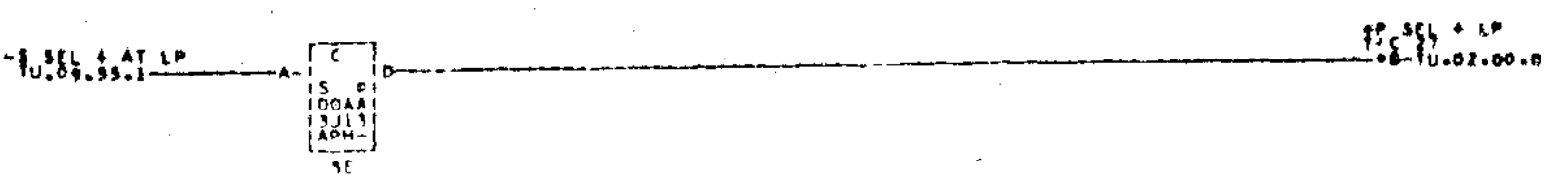
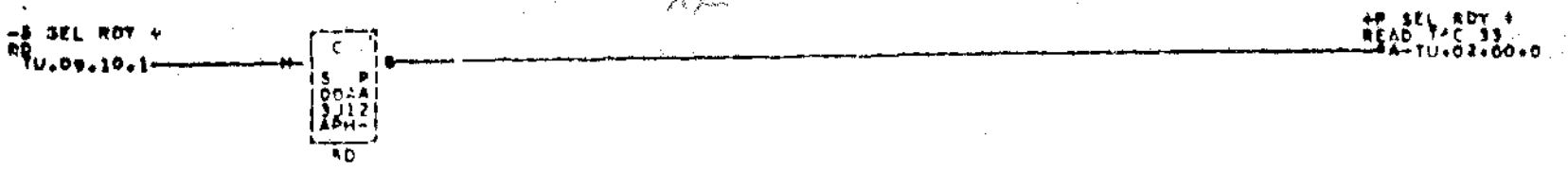
OUTPUT CONVERSION

729

TU.08.10.1



replaced 3-5-68 RF



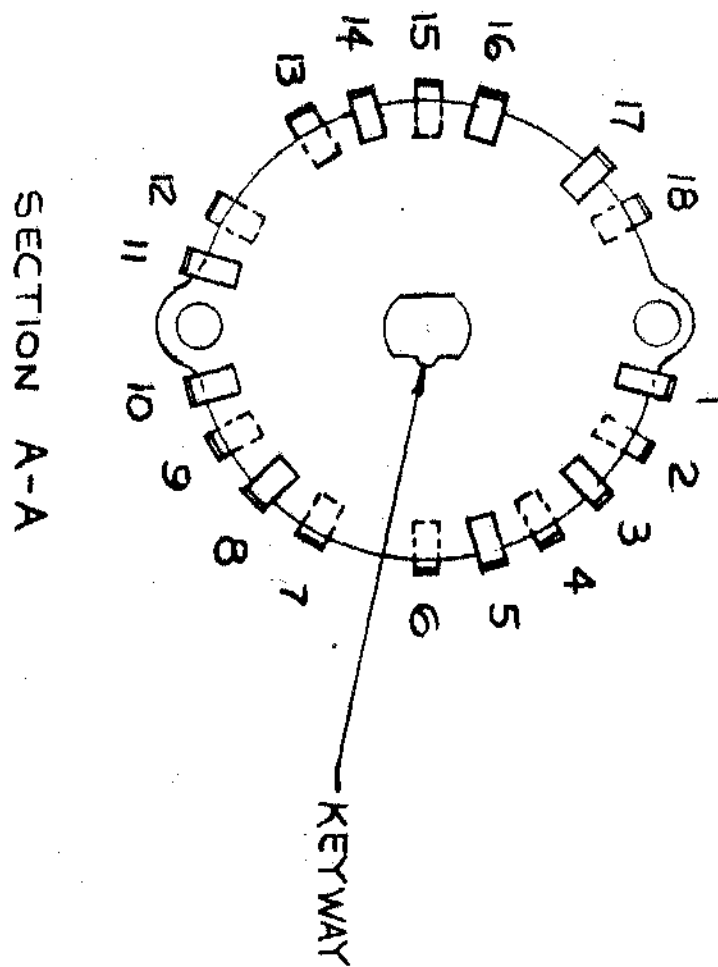
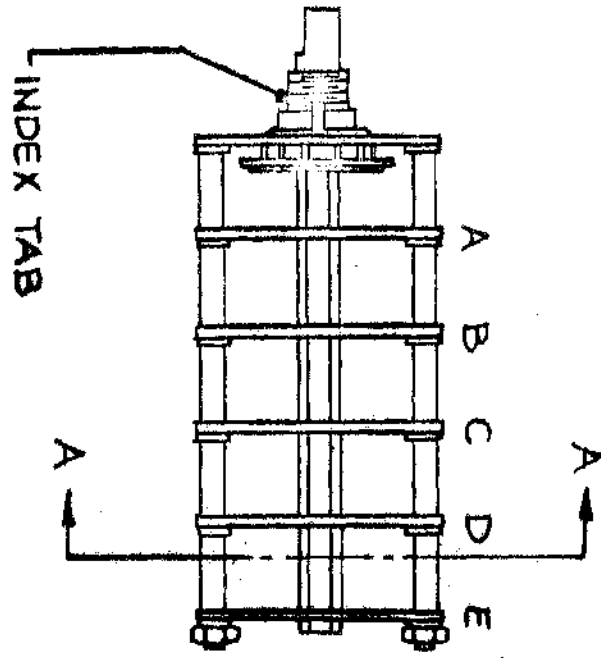
01-00A3K11B 02-00A3K11B 03-00A3K11B 04-00A3K13R 05-00A3K13F 06-00A3K13K 07-00A3K13B

ATB-6

1

WAFER SWITCH - REAR C.E. PANEL

8023318

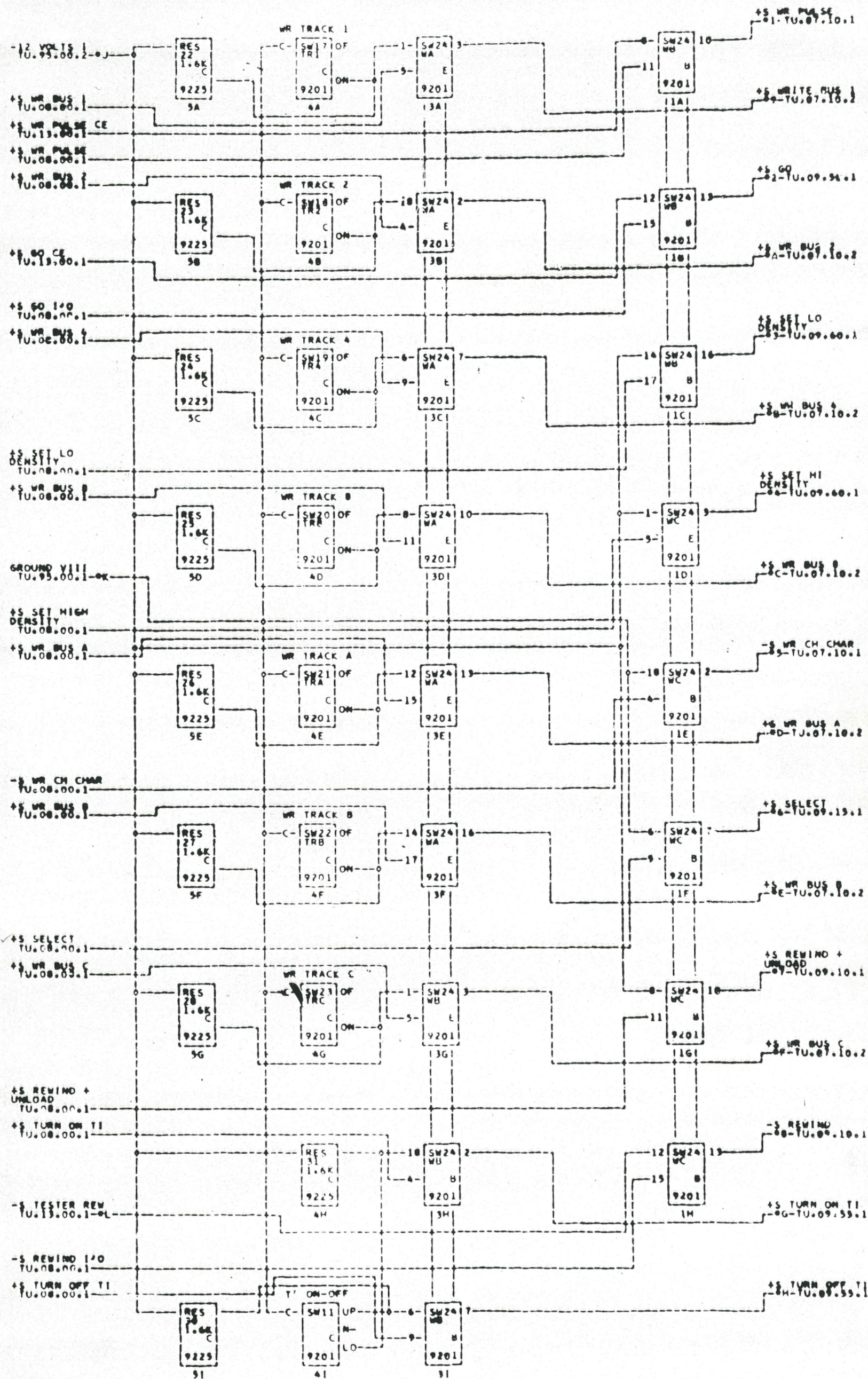


INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM							
TU.08.20.0		20.7.63	JTB4735				
DESIGN	11-17-1 MODEL						
DETAIL	12-21-2						
CHECK	12-21-2 DRAW						
APPRO	RAC 12-21-2 CHECK						

TU.08.20.0.

8023318





- \*1--00A3K21M    \*2--00A3K21F    \*3--00A3K21H    \*4--00A3K21J    \*5--00A3K21K    \*6--00A3K21D    \*7--00A3K21L    \*8--00A3K21M
- \*9--00A3K21N    \*A--00A3K21P    \*B--00A3K21Q    \*C--00A3K21R    \*D--00A3K21S    \*E--00A3K21T    \*F--00A3K21U    \*G--00A3K21V
- \*H--00A3K21W    \*I--00A3K21X    \*J--00A3K21Y    \*K--00A3K21Z    \*L--00A3K21A

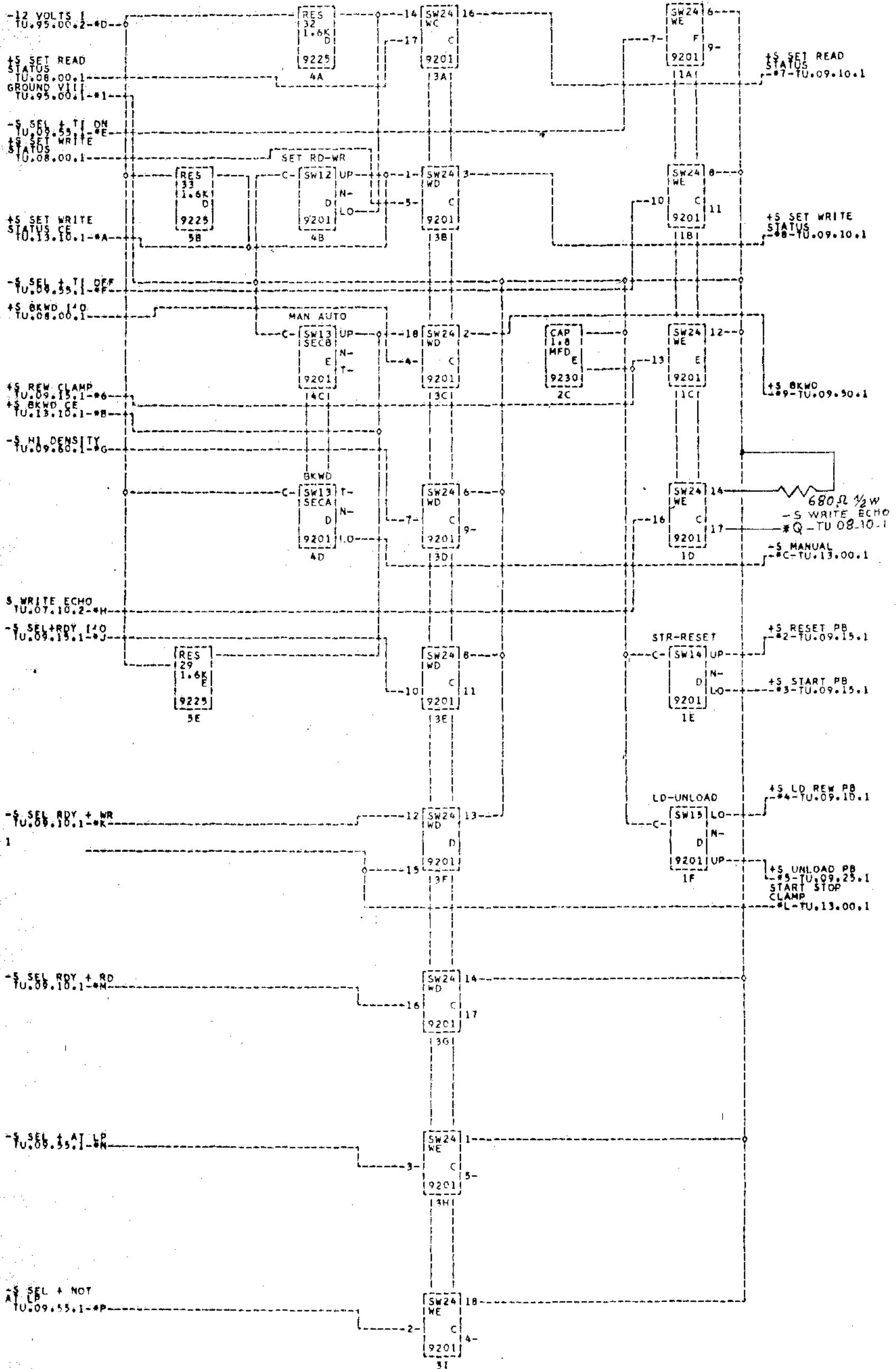
COMMENTS

TAG	DATE	L.C.NO.	TA	DATE	L.C.NO.	TAG	DATE	L.C.NO.	TAG	DATE	L.C.NO.
A	01-18-61	150110	B	05-01-62	150110	C	11-28-61	150110	D	11-28-61	150110
6-6-62 J702000											

29

1



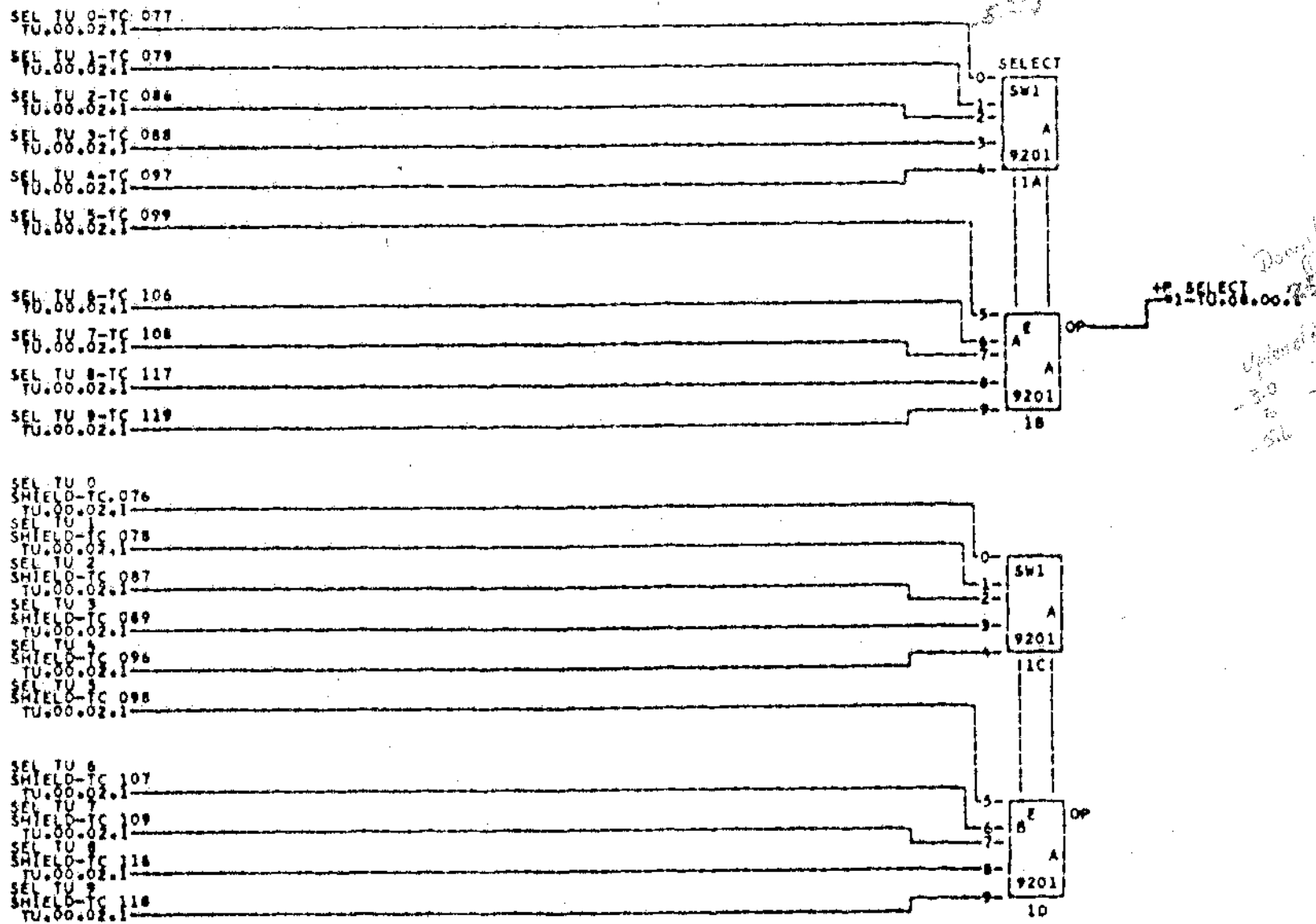


- #1--00A3K19G #2--00A3K19F #3--00A3K19H #4--00A3K21N #5--00A3K21P #6--00A3K19K #7--00A3K23P #8--00A3K23D
- #9--00A3K23B #A--00A3K21Q #B--00A3K21M #C--00A3K19L #D--00A3K19N #E--00A3K19F #F--00A3K19H
- #G--00A3K19B #H--00A3K19A #J--00A3K19D #K--00A3K19C #L--00A3K21J #M--00A3K19E
- #N--00A3K19G #P--00A3K19J #Q--00A3K19M

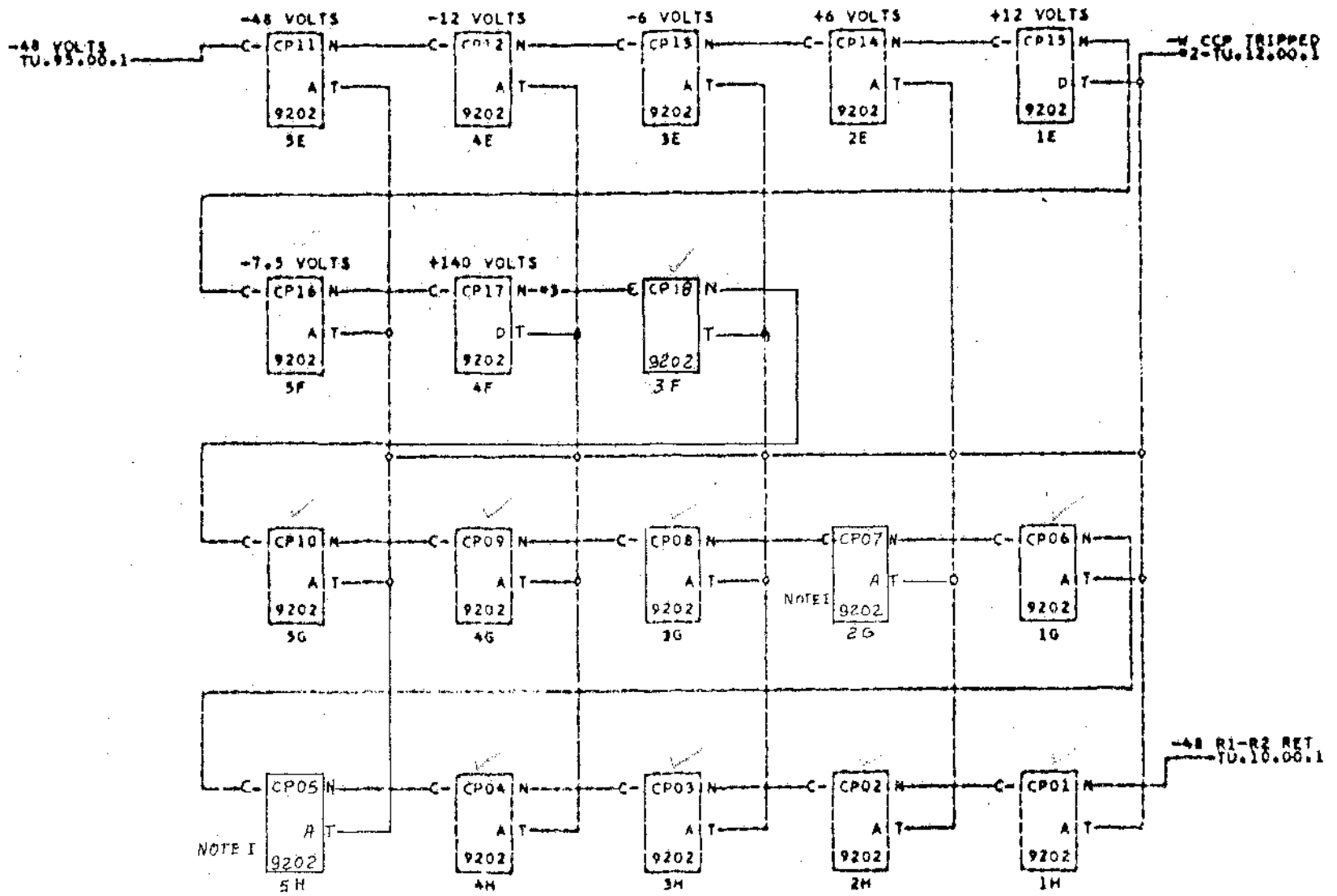
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	07-21-61	249249	B	07-21-61	249103	C	09-05-61	249128	D	10-13-61	249166
F	11-24-61	250192	I	01-17-62	250769	L	6-6-62	JT82900	M	31-7-62	JT82900A

1



*Downloaded from*  
*5/2/62*  
*30*  
*5129*  
*51*



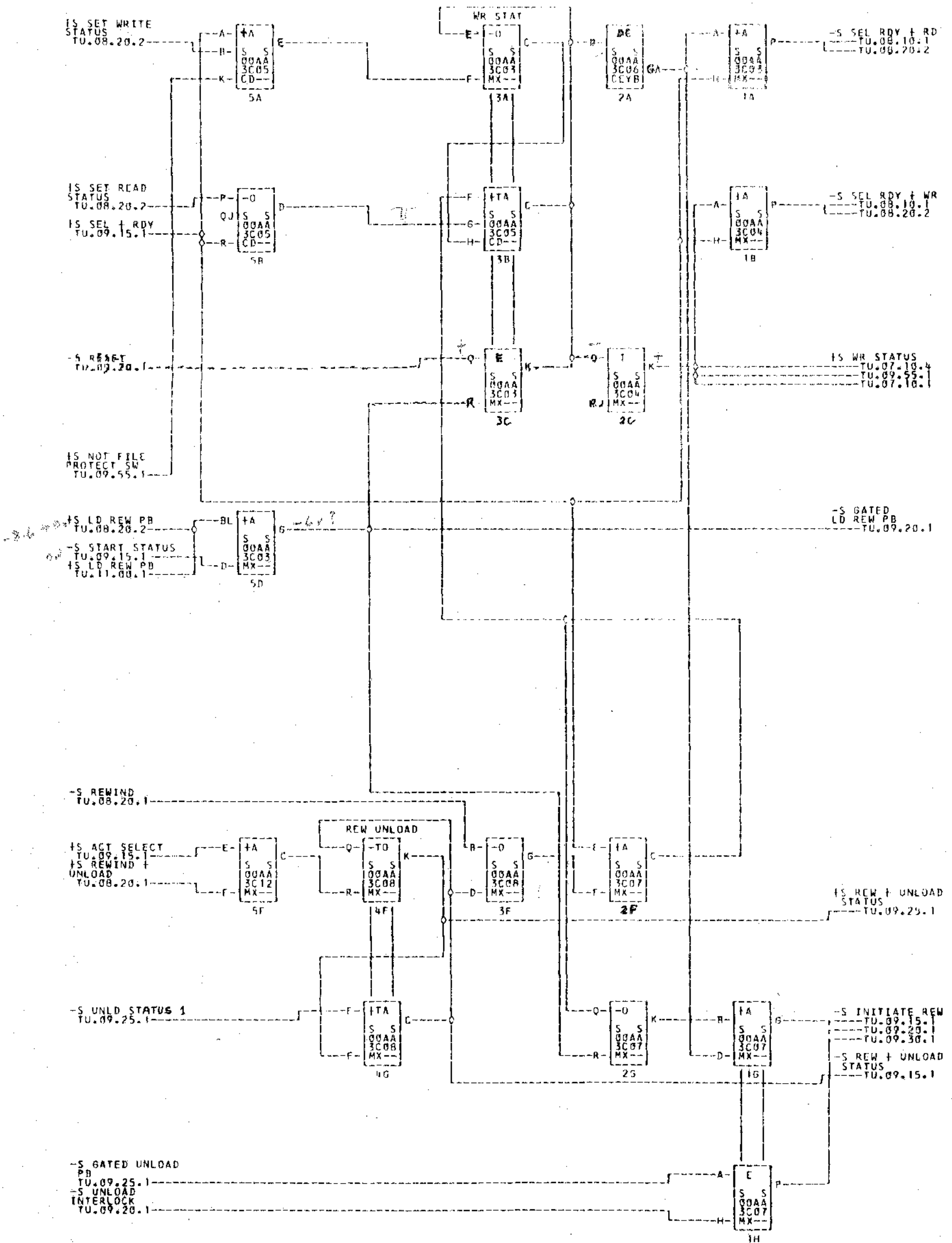
NOTE I. TAPE UNITS WITH JT 82816A DO NOT HAVE CP'S 5 & 7

\*1-00A3K15B \*2-00A3A01R-00TB0-11 \*3-00A3A01C-00TB0-12-00A3K01R

COMMENTS

DATE E.C.NO. TAG DATE E.C.NO. TAG DATE E.C.NO. TAG DATE E.C.NO.  
 21.12.62 JT 83895A

1



OK

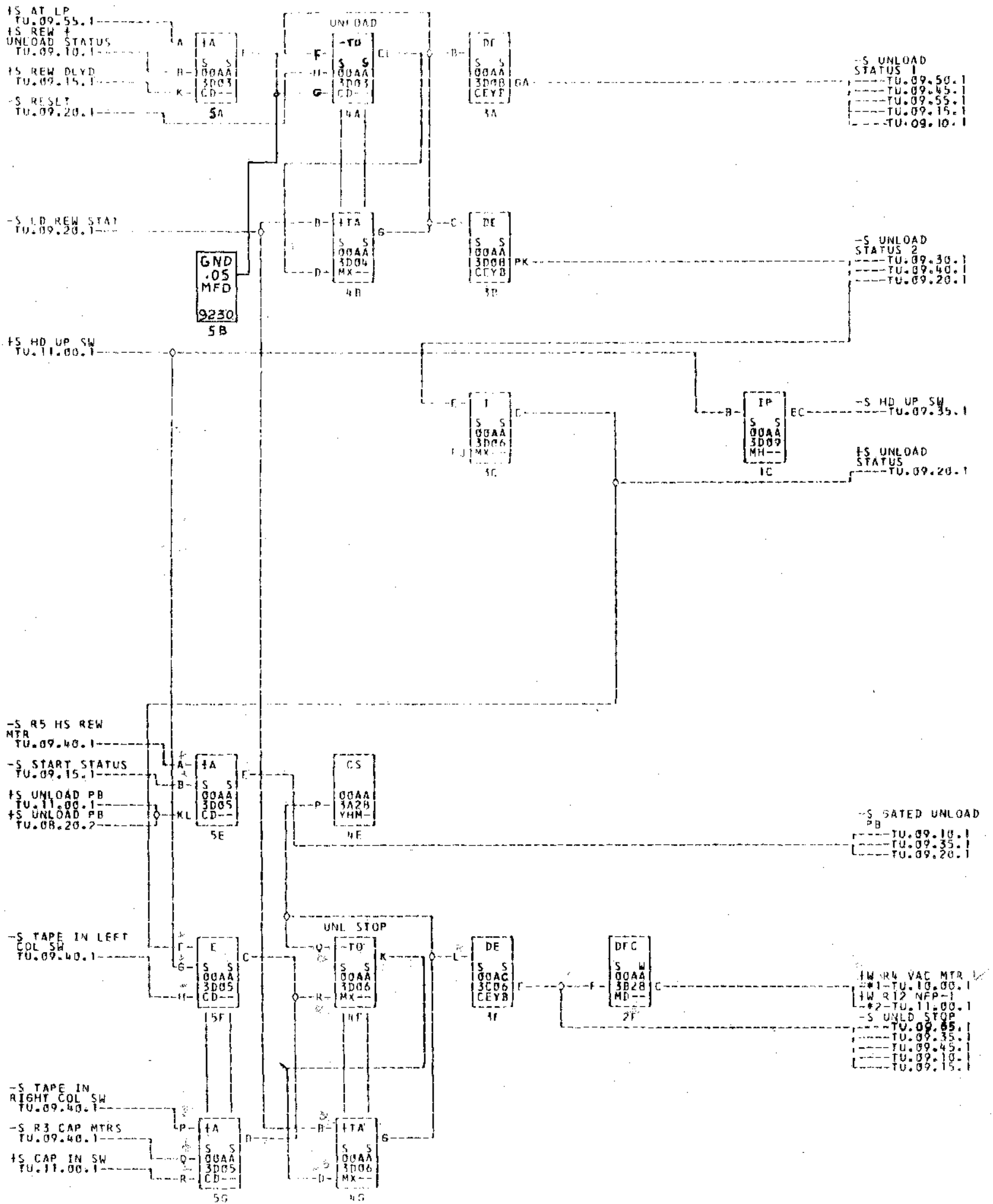
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	02-13-63	252528	D	03-06-63	0757710						
	20.7.63	J184735		17.06.11	8591P						







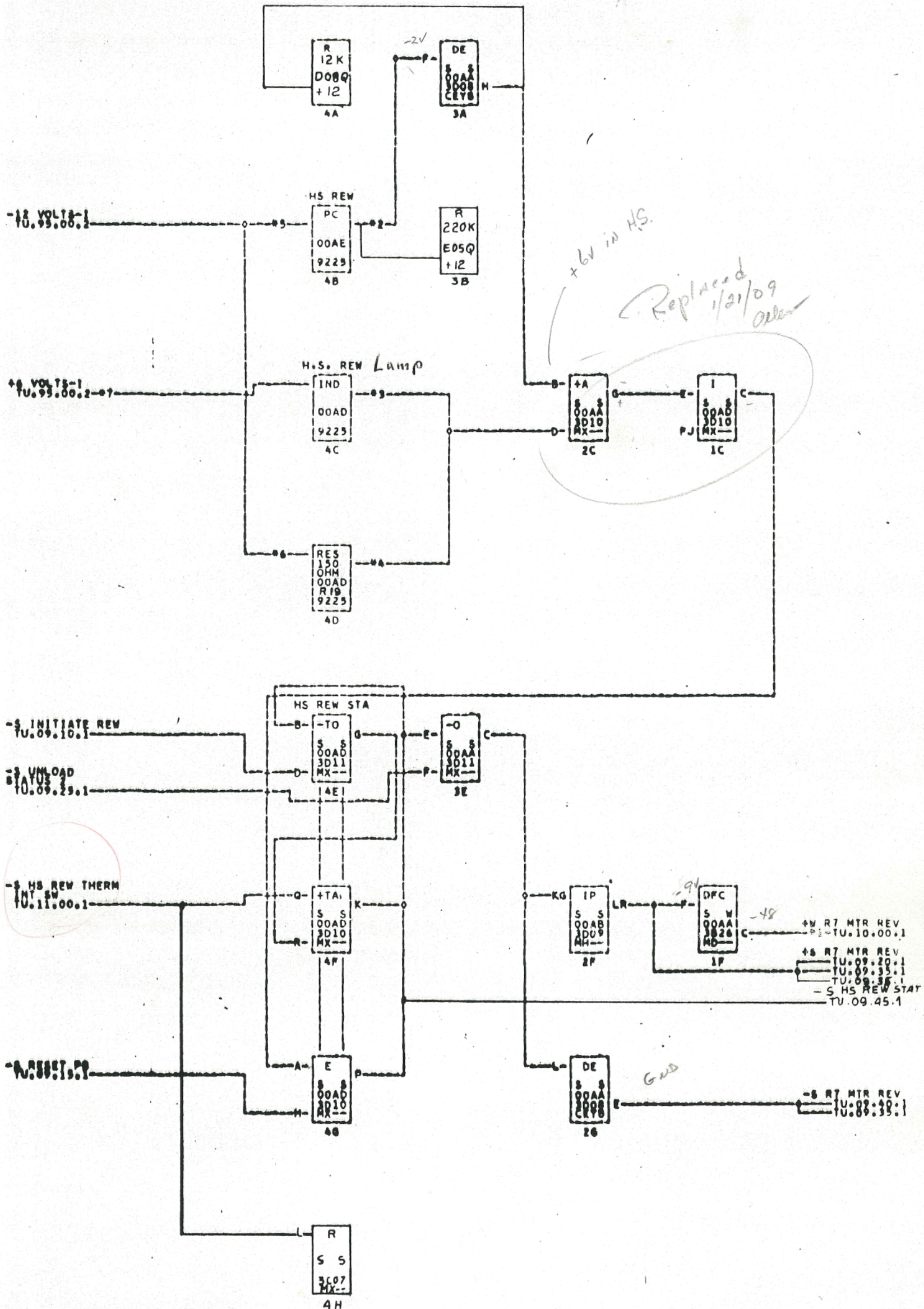


\*1--00A3A02F \*2--00A3C02Q

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	02-13-63	252528	B	03-06-63	1252719	C	09-11-63	253586			
	20.7.63	JT 84735			JT 84894		17-8-64	JT 85912			





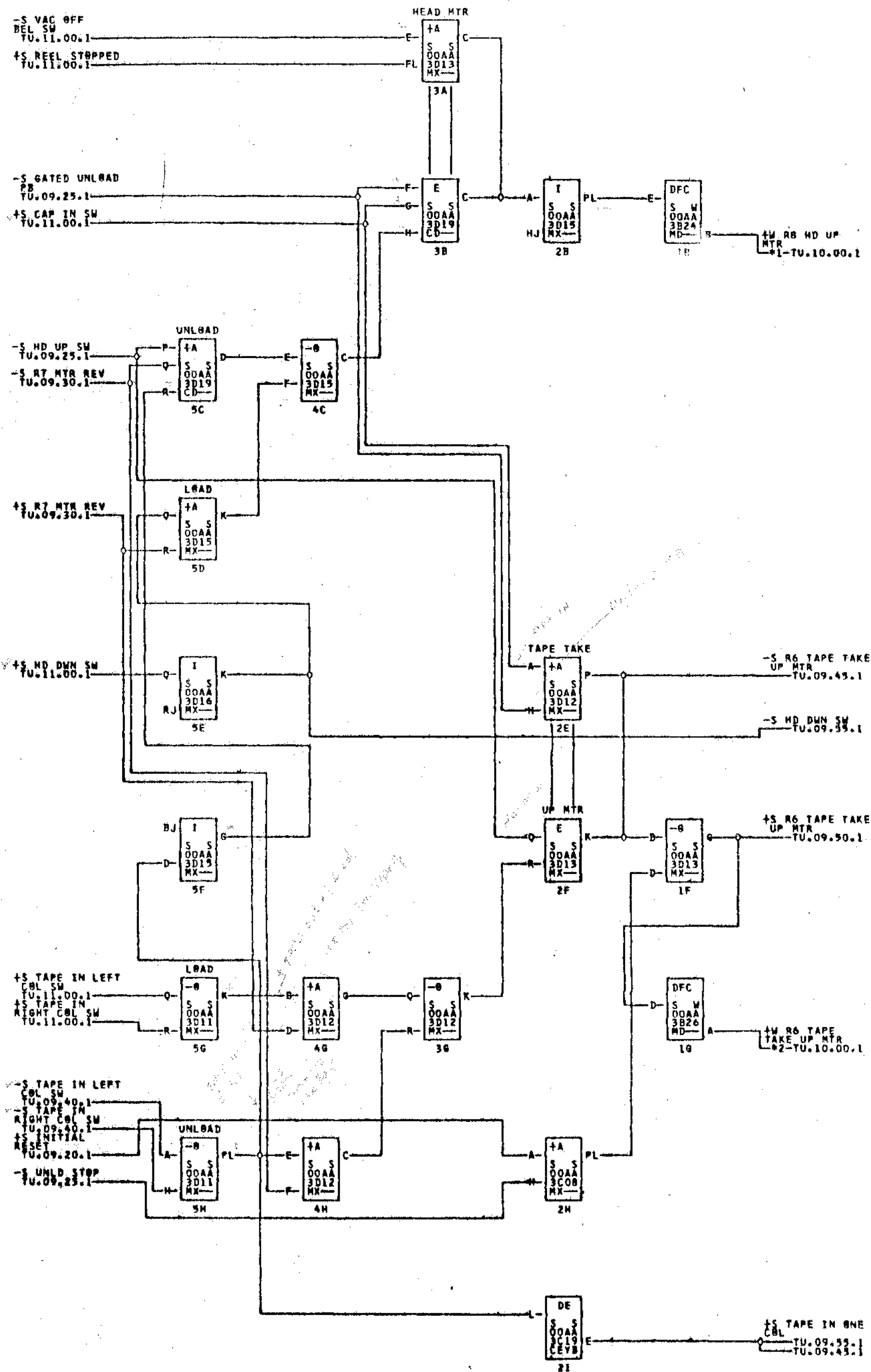
\*1-00A3A02M \*2-00A3E02M \*3-00A3D01R \*4-00A3A01K-00T88-06 \*5-00A3E02E  
 \*6-00A3A01J-00T88-03 \*7-00A3D01G

COMMENTS

NO.	DATE	E.C. NO.	NO.	DATE	E.C. NO.	NO.	DATE	E.C. NO.	NO.	DATE	E.C. NO.
1	6-6-62	JT 8290	2	19-9-62	JT 82836V	3	8-11-62	JT 82742			

1

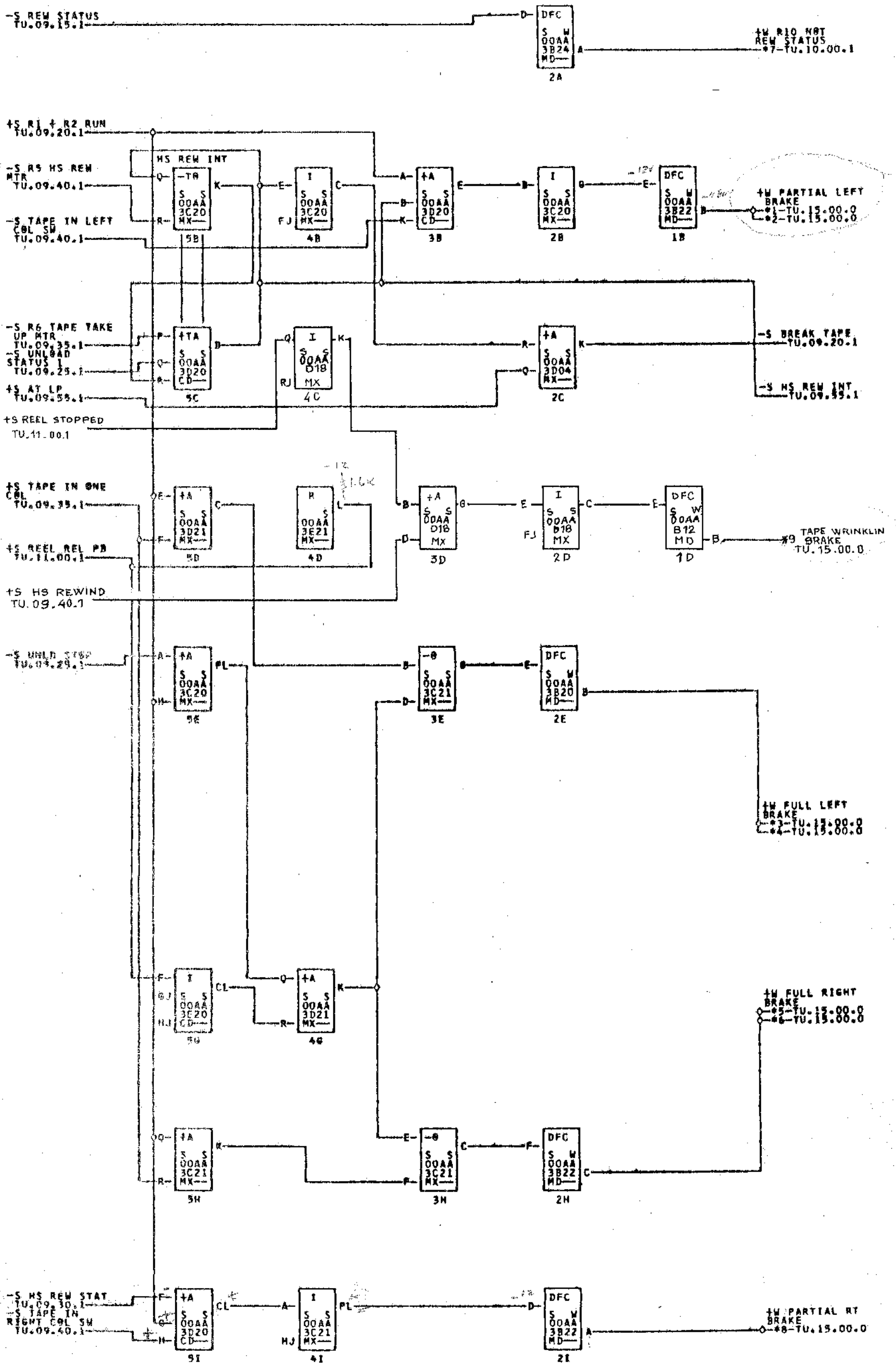




\*1-00A3A02P \*2-00A3A02K







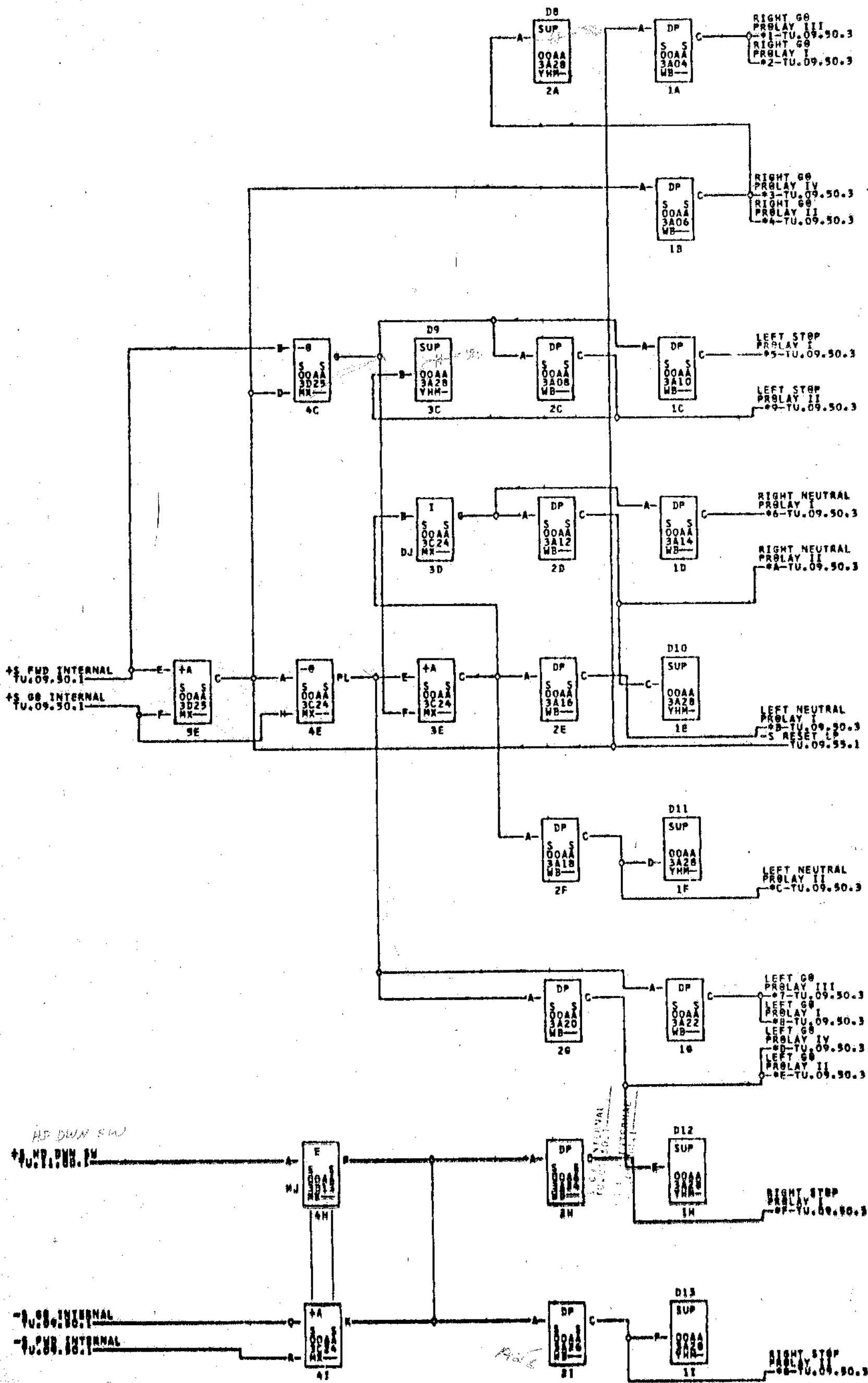
\*1-00A3A01D \*2-00A3A01A \*3-00A3A01D \*4-00A3A01C \*5-00A3A01H \*6-00A3A01G \*7-00A3A02R \*8-00A3A01F  
 \*9-00A3A01E

COMMENTS

TAG DATE E.C.N. TAG DATE E.C.N. TAG DATE E.C.N. TAG DATE E.C.N.  
 20763 JT84735

2





HS DWN SW

4\$ FWD INTERNAL TU.09.50.1

4\$ GB INTERNAL TU.09.50.1

4\$ FWD INTERNAL TU.09.50.1

24=8821881F 21=8821881G 23=8821881H 22=8821881E 25=8821881M 26=8821881N 27=8821881A 28=8821881B

COMMENTS

AS DATE E.C.NO. TAG DATE E.C.NO. TAG DATE E.C.NO. TAG DATE E.C.NO.

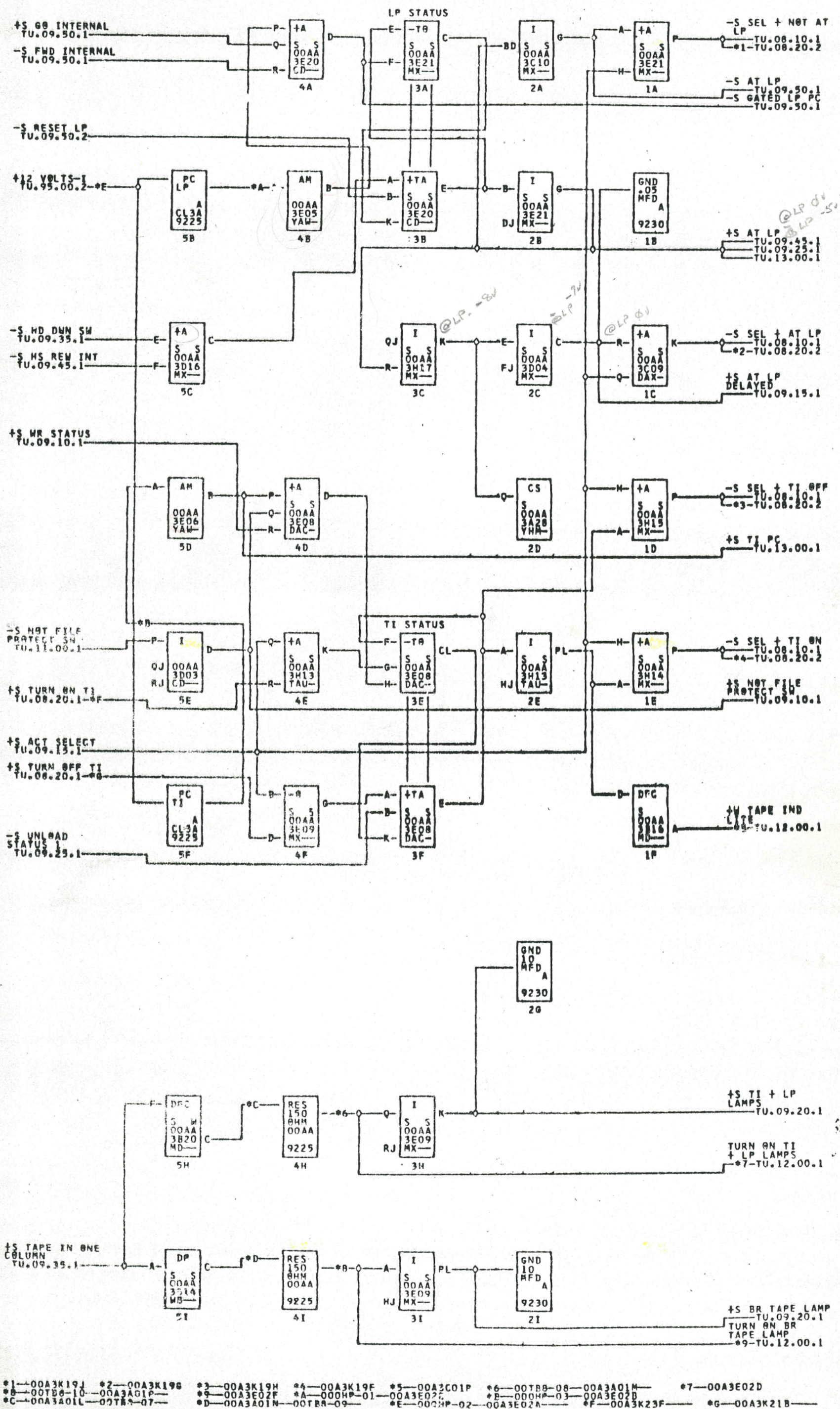
20.7.63 JT 84735











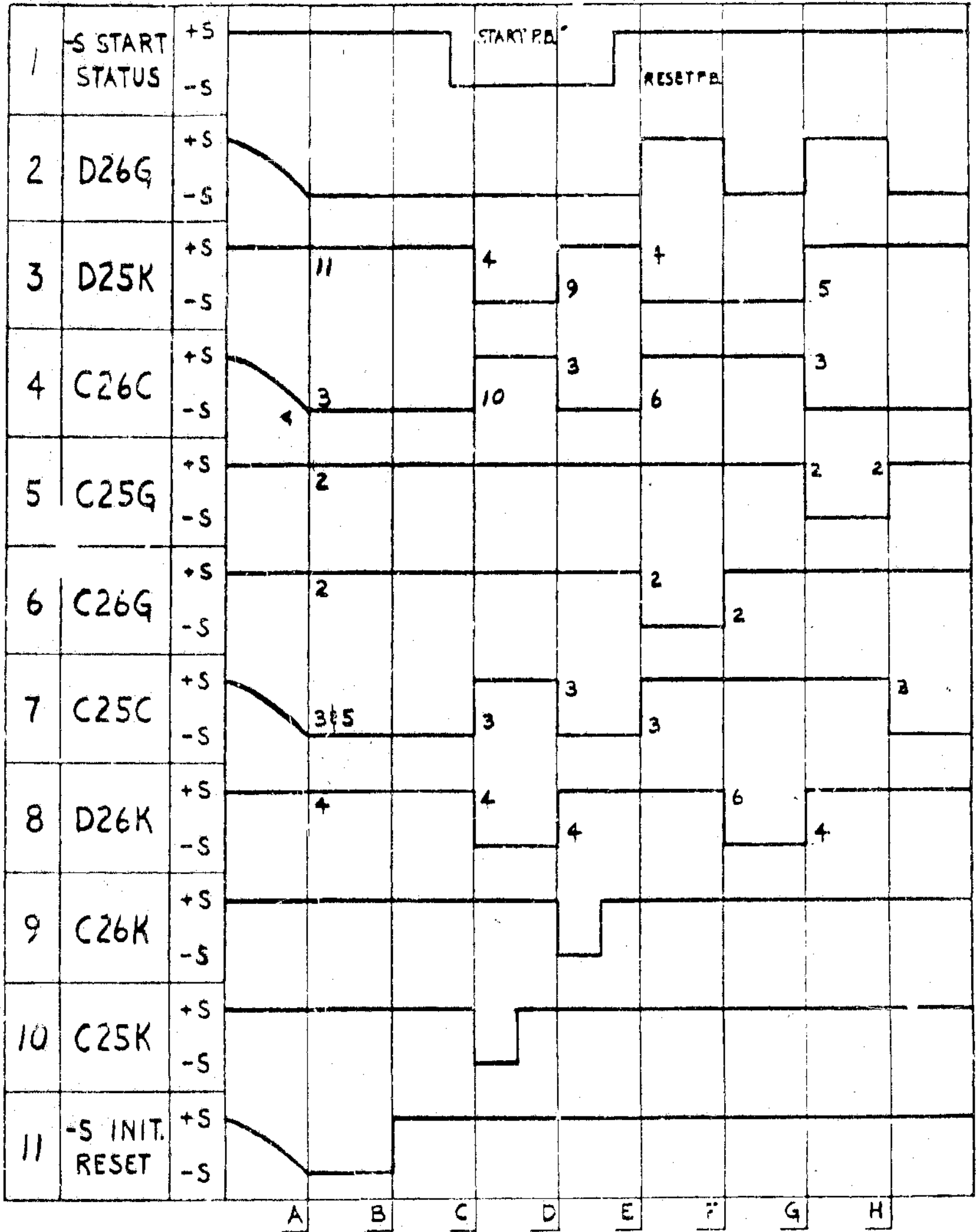
- \*1-00A3K19J    \*2-00A3K19G    \*3-00A3K19H    \*4-00A3K19F    \*5-00A3C01P    \*6-00TR8-08-00A3A01M    \*7-00A3E02D
- \*8-00TR8-10-00A3A01P    \*9-00A3E02F    \*A-000HP-01-00A3E02E    \*B-000HP-03-00A3E02B
- \*C-00A3A01L-00TR8-07    \*D-00A3A01N-00TR8-09    \*E-000HP-02-00A3E02A    \*F-00A3K23F    \*G-00A3K21B



8016995

# SEQUENCE CHART

## CHANGE DENSITY



- A POWER ON - INITIAL RESET
- B LD. REW. - DROP INITIAL RESET
- C SET LOW DENSITY
- D SET HIGH DENSITY
- E CHANGE DENSITY P.B. - LOW
- F RELEASE P.B.
- G CHANGE DENSITY P.B. - HIGH
- H RELEASE P.B.

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM		6-6-62	JT 82900			X PRINT TO ENG. SPEC. NO.	
TU.09.60.0							
DESIGN	LHB 10-15-61	MODEL	729 II				
DETAIL							
CHECK	RFR 10-24-61	DRAW					
APPRO	ASR 10-24-61	CHECK					
							TU.0960.0

8016995



From Rear Panel

MINUC #2 To 0  
W-48v

+S SET HI DENSITY TU.08.20.1

-S INITIAL RESET TU.09.20.1

-S START STATUS TU.09.15.1

+S ACT SELECT TU.09.15.1

+S CHG DEN PB I TU.11.00.1

-S CHG DEN PB I TU.11.00.1

+S SET LO DENSITY TU.08.20.1

CAP GND 001 521E 181 9230 2A

5A

4B

3B

2B

1B MD

3C

2C

1C

5D

5E

4F

3F

2F

1F

4G

3G

2G

5H

No button 0-V  
-12

Debounce (does not latch)

CHANGE DEN

0V  
-12

MX ++ -

From Rear Panel

\*1-00A3C01K \*2-00A3C01M

COMMENTS

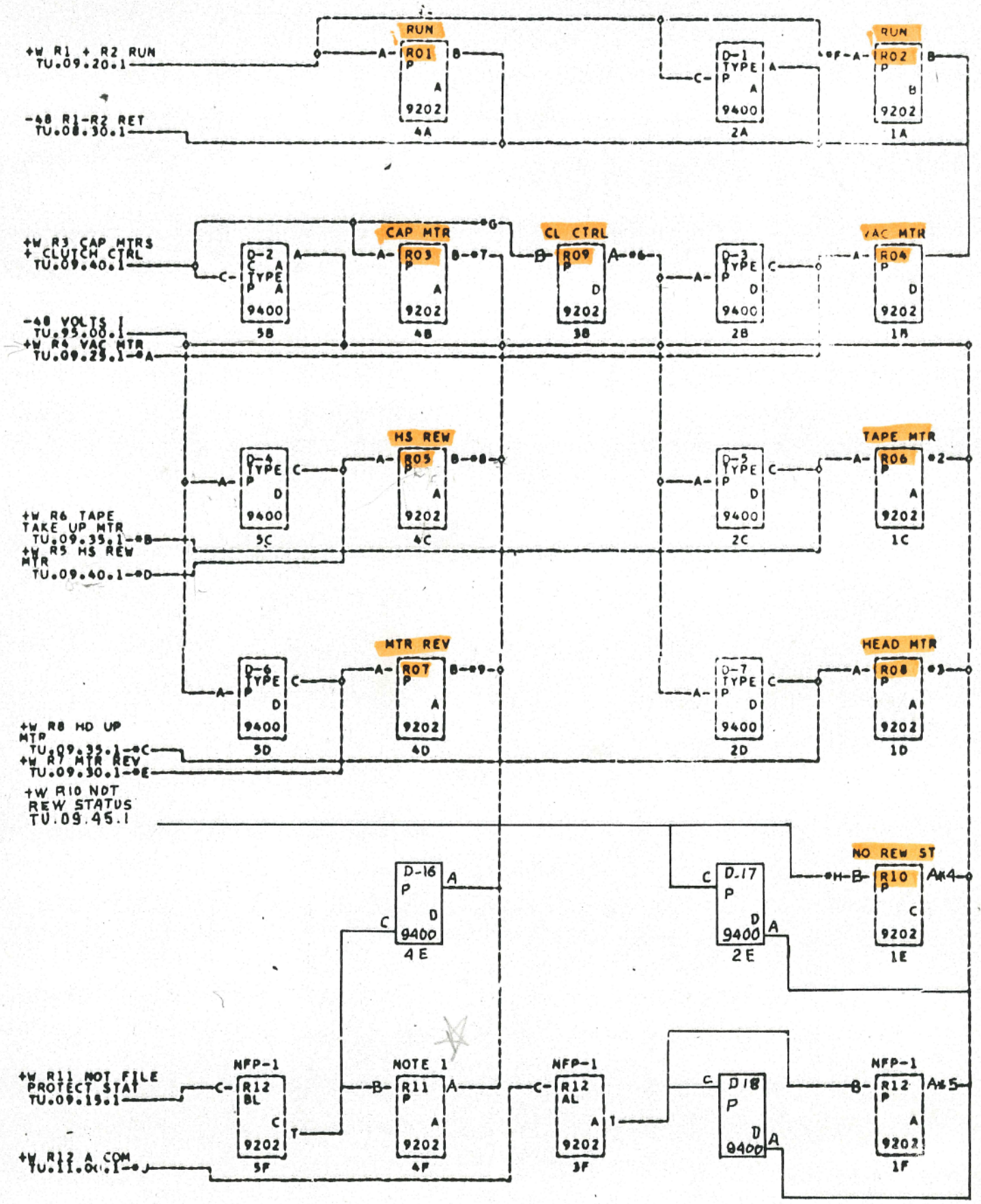
TAG DATE I.C. NO. 8-11-62 15044

TAG DATE I.C. NO. 8-11-62 15044

TAG DATE I.C. NO. 6-6-62 JT 82900

TAG DATE I.C. NO. 8-11-62 JT 82742



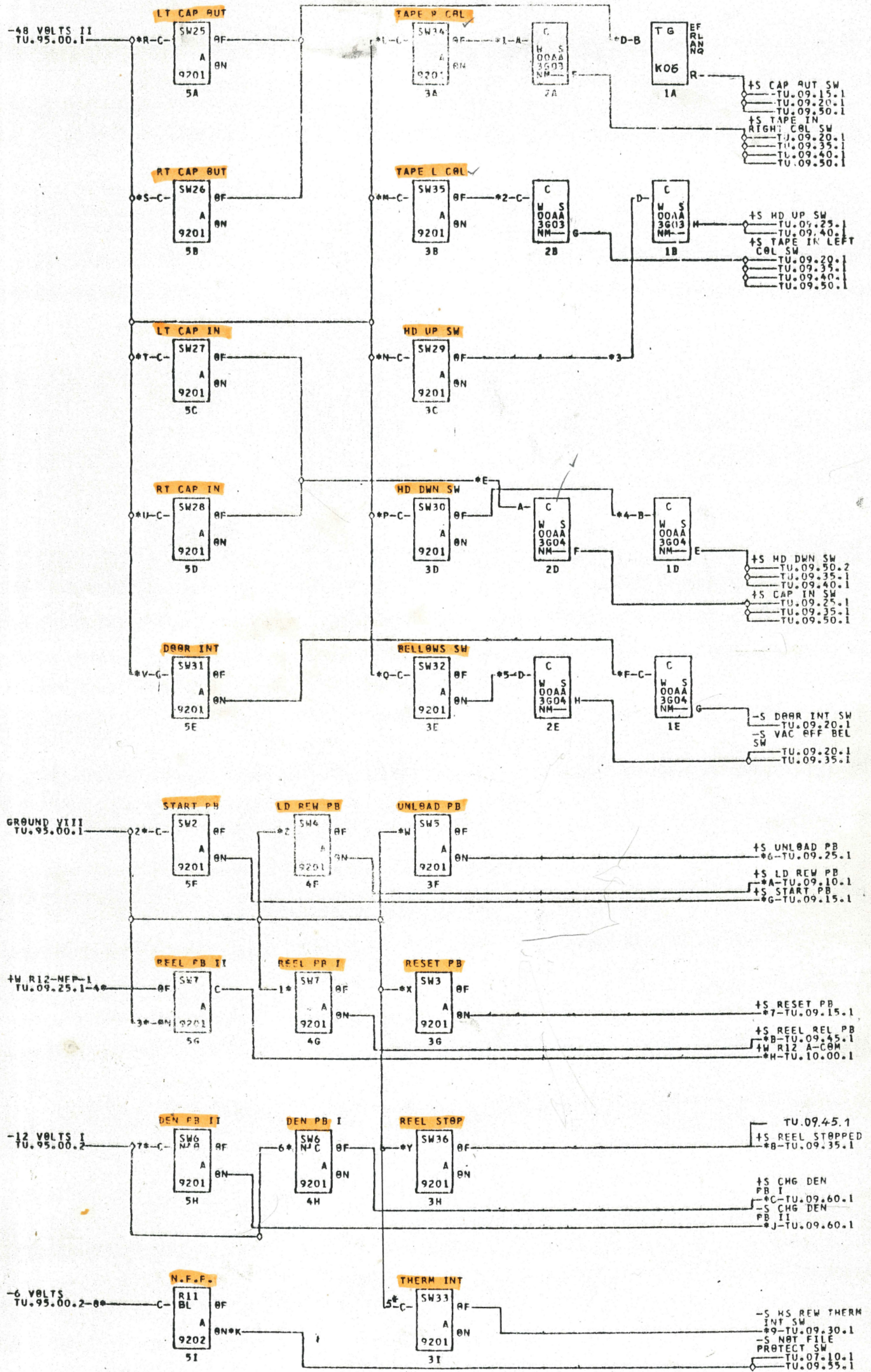


\*5-00A3001N-B- \*6-00A3A02C-00T89-02 \*7-00A3A02C-00T89-02 \*8-00A3A02G-00T89-05  
 \*9-00A3A02I-00T89-08 \*A-00T89-04 \*B-00T89-07 \*C-00T89-10 \*D-00T89-06 \*E-00T89-09 \*F-00T89-01  
 \*G-00T89-03 \*H-00T89-12 \*J-00A3D01P

1  
 NOTE 1 NFP R11 B COIL JUMPERED TO R12 B COIL  
 COMMENTS

TAG DATE E.C.NO. TAG DATE E.C.NO. TAG DATE E.C.NO. TAG DATE E.C.NO.  
 6-6-62 JT82900  
 31-7-62 JT82900A  
 30-8-62 JT82965  
 16-11-62 JT82791





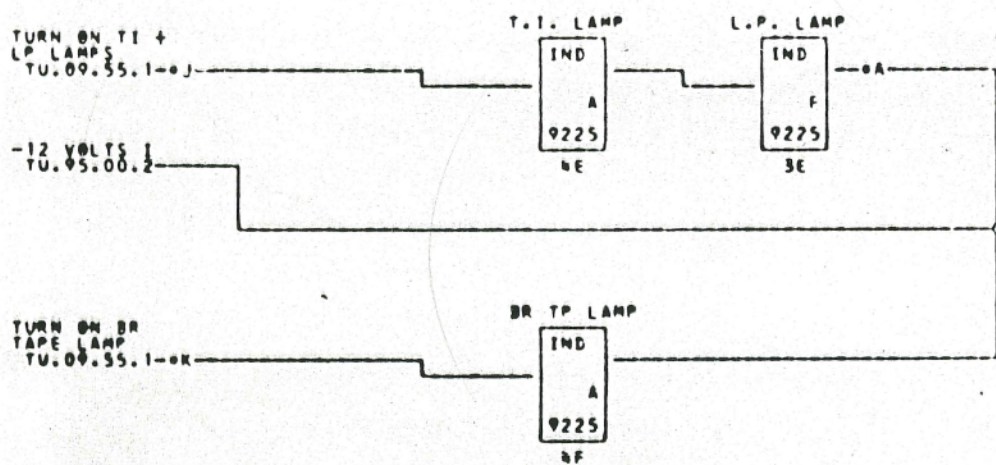
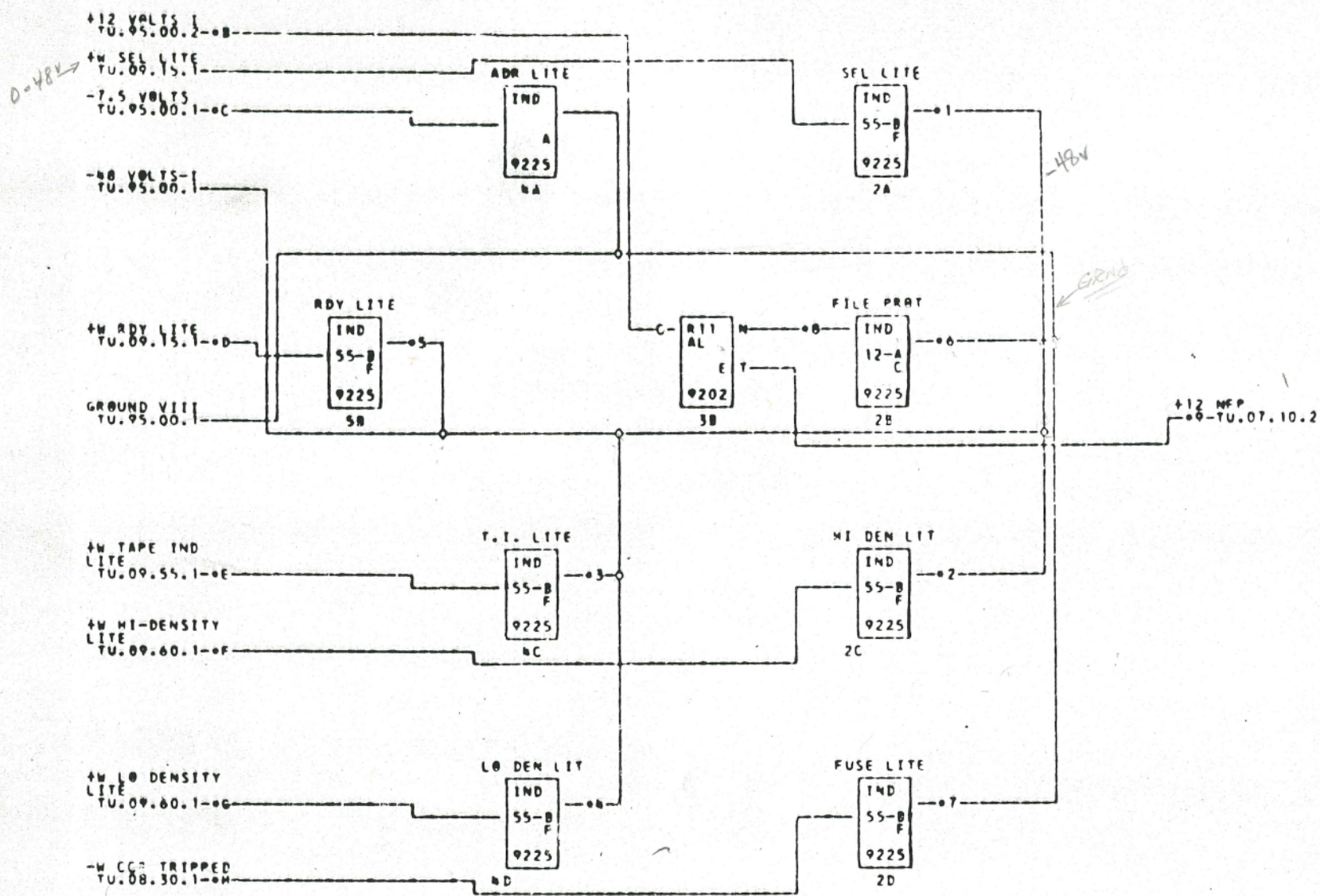
- \*1-00A3E01D    \*2-00A3E01H    \*3-00A3E02L-000HP-13    \*4-00A3E02K-000HP-08    \*5-00A3E01F
- \*6-00A3C02H    \*7-00A3C02K    \*8-00A3D02M    \*9-00A3D01B    \*A-00A3C02B    \*B-00A3C02P    \*C-00A3C02C
- \*D-00A3D01D-00A3D02P    \*E-00A3D01F-00A3D02R    \*F-00A3C02M    \*G-00A3C02D    \*H-00A3C02R    \*J-00A3C02F
- \*K-00A3D01M    \*L-00A3E01C    \*M-00A3E01G    \*N-00A3E02J-000HP-09    \*P-00A3E02J-000HP-07
- \*O-00A3E01E    \*R-00A3D01C    \*S-00A3D02N    \*T-00A3D01E    \*U-00A3D02Q    \*V-00A3C02L
- \*W-00A3C02G    \*X-00A3C02J    \*Y-00A3D02L    \*Z-00A3C02A    \*1-00A3C02E    \*2-00A3C02A
- \*3-00A3C02E    \*4-00A3C02Q    \*5-00A3D01A    \*6-00A3C02E    \*7-00A3C02E    \*8-00A3D01L

COMMENTS

TAG DATE E.C.Nº. TAG DATE E.C.Nº. TAG DATE E.C.Nº. TAG DATE E.C.Nº.

20.7.63. JT84735





See TU 09.30.01 (4C) for HS. Rewind Lamp & (4B) for H.S. Rew Photo Cell

Operator Control Panel Area

7.5V  
Address Select Wheel Lite

12V  
48V  
File Protect.

48V Lamps  
Fuse  
Lo Density  
Hi Density  
T.I. Lite  
Rdy Lite  
Sel Lite

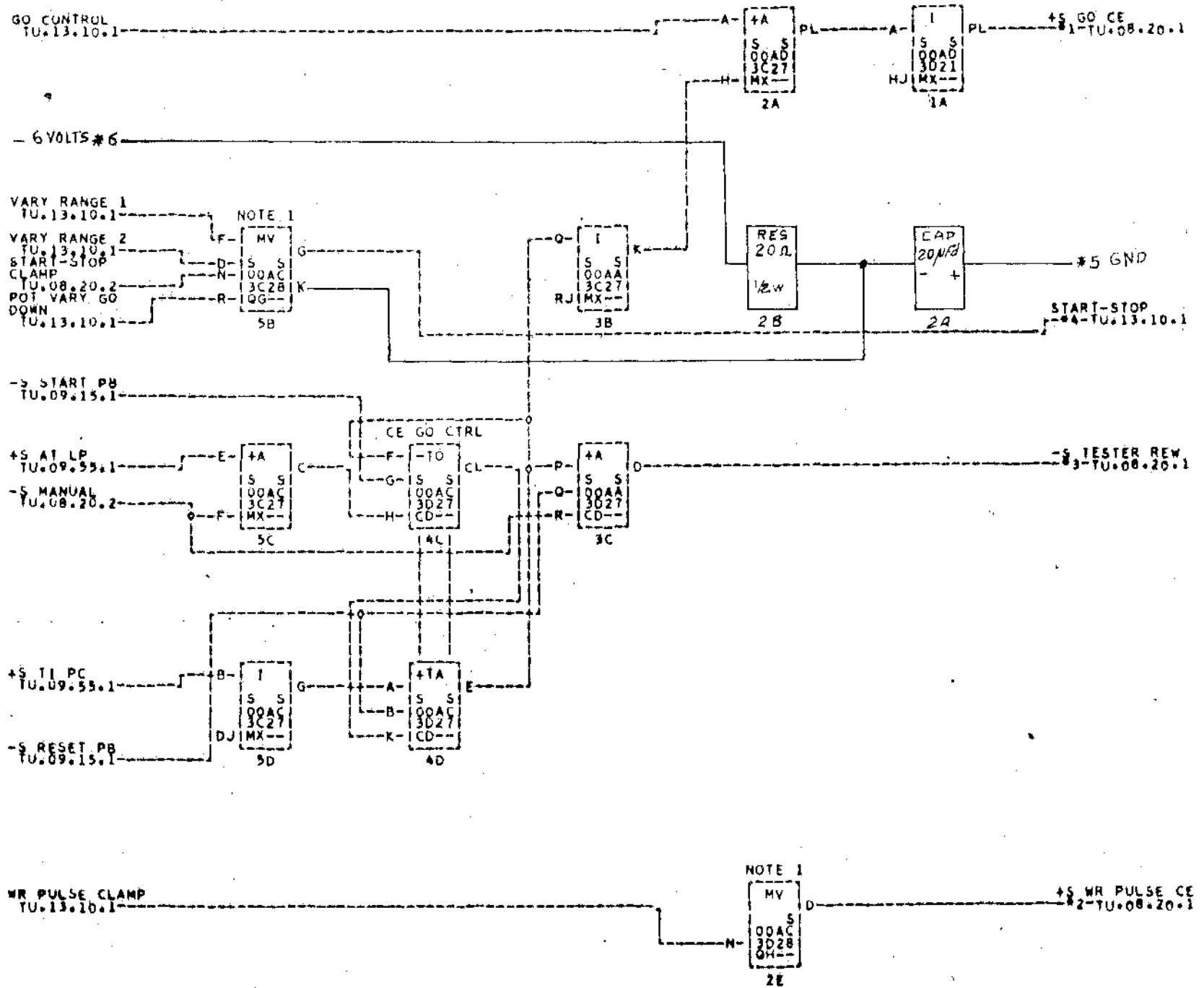
12V Lamps  
Tape Break  
Load Point (LP)  
Tape Indicator (T.I.) } mounted on R/w Head

1-00A3C01C	2-00A3C01J	3-00A3C01N	4-00A3C01G	5-00A3C01E	6-00A3C01L	00A3C01B
7-00A3C01G	8-00A3C01H	9-00A3C01M	0-00A3D01J	A-00A3E02E	000HP-12	R-00A3D01G
C-00A3C01A	D-00A3C01F	E-00A3C01P	F-00A3C01K	G-00A3C01M		W-00A3C01R
J-000HP-05	00A3E02D	K-000HP-11	00A3E02F			

COMMENTS

REV	DATE	E.C. NO.	REV	DATE	E.C. NO.	REV	DATE	E.C. NO.	REV	DATE	E.C. NO.
1	6.6.62	JT 82900	2	8.11.62	JT 82742						



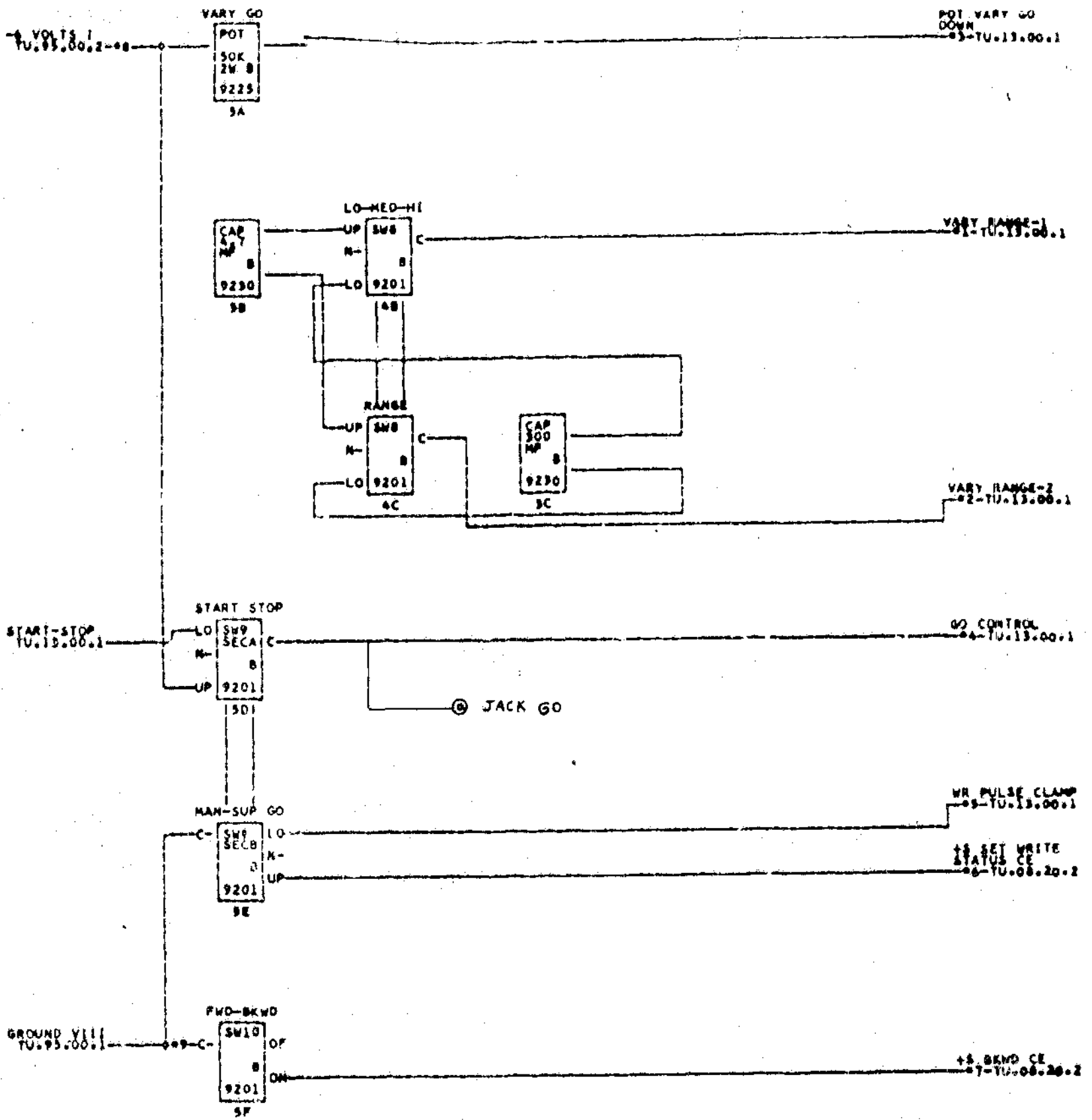


\*1--00A3K21R \*2--00A3K21K \*3--00A3K21L \*4--00A3E01P \*5- 00A3C28T \*6- 00A3C28Q

1

NOTE 1. THESE CARDS NOT SHIPPED WITH MACHINE

TAG DATE	E.C.NO.	TAG DATE	E.C.NO.	TAG DATE	E.C.NO.	TAG DATE	E.C.NO.
A 03-31-61	249230	B 09-05-61	250120	C 10-30-61	250266	D 01-11-62	250969
6-6-62	JT82900						
31-7-62	JT82900A						
6-12-62	JT83884						



- \*1--00A3E020   \*2--00A3E02R   \*3--00A3E01P   \*4--00A3E01N   \*5--00A3E01L   \*6--00A3E01M   \*7--00A3E01K   \*8--00A3E01N
- \*9--00A3E01J

NOTE JACK "GO" LOCATED ON FRONT CE PANEL.

COMMENTS	AG DATE	E.C. NO.	AG DATE	E.C. NO.	AG DATE	E.C. NO.	AG DATE	E.C. NO.
	6-6-62	7782800						

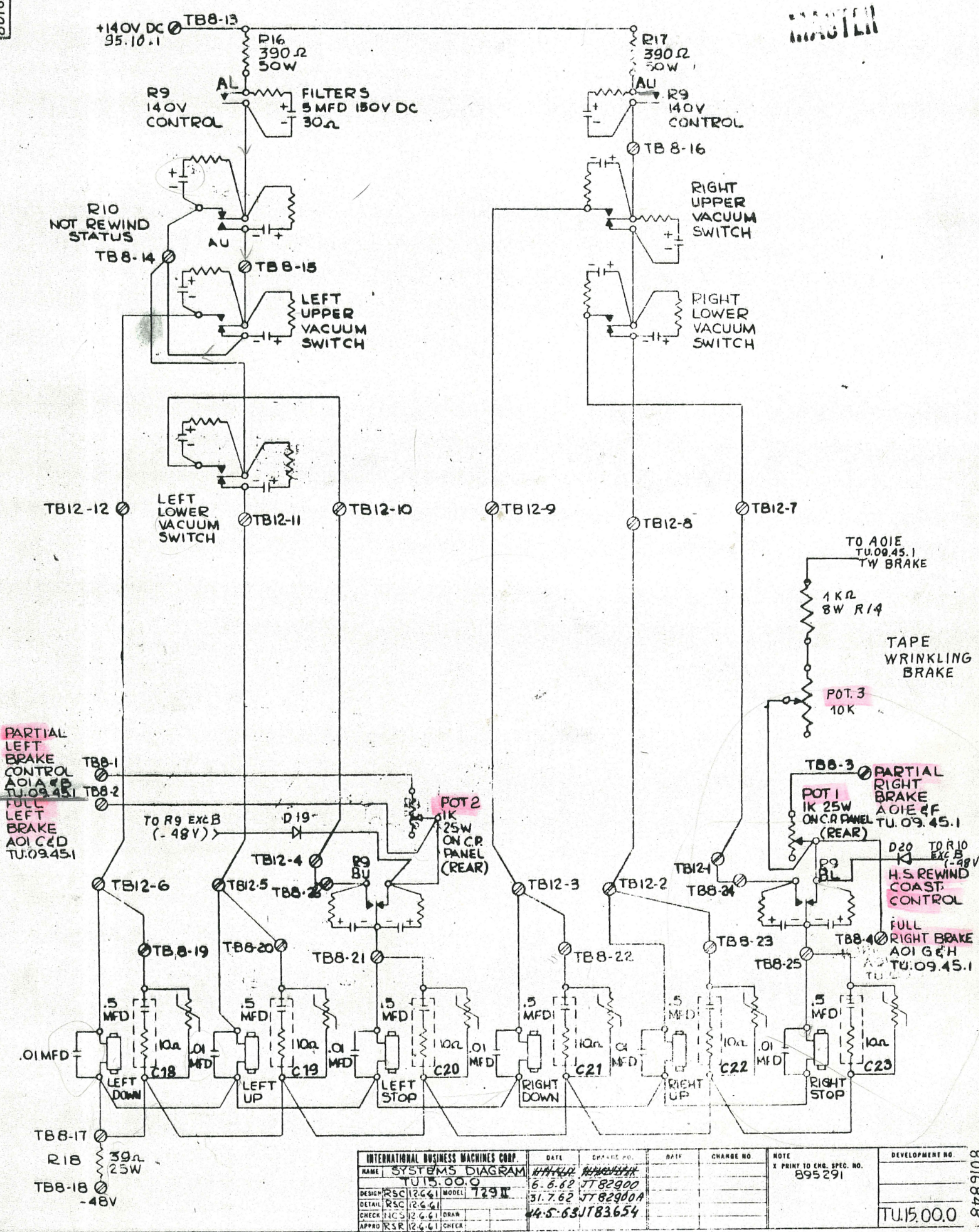


8016848

# CLUTCH AND VACUUM CONTROL

TU15.000

MAILED



PARTIAL LEFT BRAKE CONTROL AOIA 95.10.45.1  
 FULL LEFT BRAKE AOI C2D TU:09.45.1

POT. 3 10K  
 POT. 1 1K 25W ON C.P. PANEL (REAR)  
 PARTIAL RIGHT BRAKE AOI E4F TU:09.45.1  
 H.S. REWIND COAST CONTROL  
 FULL RIGHT BRAKE AOI G6H TU:09.45.1

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	6.6.62		X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	RSC (2641) MODEL 729 II	31.7.62			
DETAIL	RSC (2641)	14.5.63			
CHECK	JCS (2641) DRAN				
APPRO	RSR (2641) CHECK				

*Stop clutch  
 Full Brake  
 = 13 volt drop across R18  
 = 39 ohm resistor  
 = 35V drop across Brake clutch coil*

8016848

TU15.00.0



NOTE: ALL GROUNDS ARE JUMPED AT K02 PADDLE DESIGNATIONS ARE FOR CABLE REFERENCE ONLY

LINE NAME	FIN	PAGE	BLOCK	COMMENTS
GROUND I	K02M			TB 5 5
GROUND II	K02N			A ROW SUPPLY
GROUND III	K02P			TB 5 5
GROUND IV	K02Q			A ROW GROUND
GROUND V	K02R			TB 5 7
GROUND VI	K02S			A ROW GROUND
GROUND VII	K02T			TB 5 7
GROUND VIII	K02U			B ROW GROUND
GROUND IX	K02V			TB 5 7
GROUND X	K02W			A ROW GROUND
GROUND XI	K02X			TB 5 7
GROUND XII	K02Y			A ROW GROUND
GROUND XIII	K02Z			TAPE SWITCHING FEATURE
GROUND XIV	K02A			TAPE SWITCHING FEATURE
GROUND XV	K02B			TB 4 5
GROUND XVI	K02C			C ROW GROUND
GROUND XVII	K02D			TB 4 1
GROUND XVIII	K02E			F ROW GROUND
GROUND XIX	K02F			CAP CARD PN 556981
GROUND XX	K02G			TB 5 2
GROUND XXI	K02H			REAR CE PANEL
GROUND XXII	K02I			CARD TO
GROUND XXIII	K02J			TB 5 2
GROUND XXIV	K02K			FRONT CE FWD BKWD SWITCH
GROUND XXV	K02L			REELS STOPPED SWITCH
GROUND XXVI	K02M			FUSE
GROUND XXVII	K02N			FILE PROTECT LITE
GROUND XXVIII	K02O			ADDRESS LITE
GROUND XXIX	K02P			REEL RELEASE PB
GROUND XXX	K02Q			RESET PB
GROUND XXXI	K02R			UNLOAD PB
GROUND XXXII	K02S			START PB + LD REM PB
GROUND XXXIII	K02T			LP+T LAMPS
GROUND XXXIV	K02U			5F
GROUND XXXV	K02V			3300
GROUND XXXVI	K02W			3300
GROUND XXXVII	K02X			3300
GROUND XXXVIII	K02Y			3300
GROUND XXXIX	K02Z			3300
GROUND XL	K02A			3300
GROUND XLI	K02B			3300
GROUND XLII	K02C			3300
GROUND XLIII	K02D			3300
GROUND XLIV	K02E			3300
GROUND XLV	K02F			3300
GROUND XLVI	K02G			3300
GROUND XLVII	K02H			3300
GROUND XLVIII	K02I			3300
GROUND XLIX	K02J			3300
GROUND L	K02K			3300
GROUND LI	K02L			3300
GROUND LII	K02M			3300
GROUND LIII	K02N			3300
GROUND LIV	K02O			3300
GROUND LV	K02P			3300
GROUND LVI	K02Q			3300
GROUND LVII	K02R			3300
GROUND LVIII	K02S			3300
GROUND LVIX	K02T			3300
GROUND LX	K02U			3300
GROUND LXI	K02V			3300
GROUND LXII	K02W			3300
GROUND LXIII	K02X			3300
GROUND LXIV	K02Y			3300
GROUND LXV	K02Z			3300
GROUND LXVI	K02A			3300
GROUND LXVII	K02B			3300
GROUND LXVIII	K02C			3300
GROUND LXIX	K02D			3300
GROUND LXX	K02E			3300
GROUND LXXI	K02F			3300
GROUND LXXII	K02G			3300
GROUND LXXIII	K02H			3300
GROUND LXXIV	K02I			3300
GROUND LXXV	K02J			3300
GROUND LXXVI	K02K			3300
GROUND LXXVII	K02L			3300
GROUND LXXVIII	K02M			3300
GROUND LXXIX	K02N			3300
GROUND LXXX	K02O			3300
GROUND LXXXI	K02P			3300
GROUND LXXXII	K02Q			3300
GROUND LXXXIII	K02R			3300
GROUND LXXXIV	K02S			3300
GROUND LXXXV	K02T			3300
GROUND LXXXVI	K02U			3300
GROUND LXXXVII	K02V			3300
GROUND LXXXVIII	K02W			3300
GROUND LXXXIX	K02X			3300
GROUND LXXXX	K02Y			3300
GROUND LXXXXI	K02Z			3300
GROUND LXXXXII	K02A			3300
GROUND LXXXXIII	K02B			3300
GROUND LXXXXIV	K02C			3300
GROUND LXXXXV	K02D			3300
GROUND LXXXXVI	K02E			3300
GROUND LXXXXVII	K02F			3300
GROUND LXXXXVIII	K02G			3300
GROUND LXXXXIX	K02H			3300
GROUND LXXXXX	K02I			3300
GROUND LXXXXXI	K02J			3300
GROUND LXXXXXII	K02K			3300
GROUND LXXXXXIII	K02L			3300
GROUND LXXXXXIV	K02M			3300
GROUND LXXXXXV	K02N			3300
GROUND LXXXXXVI	K02O			3300
GROUND LXXXXXVII	K02P			3300
GROUND LXXXXXVIII	K02Q			3300
GROUND LXXXXXIX	K02R			3300
GROUND LXXXXXX	K02S			3300
GROUND LXXXXXXI	K02T			3300
GROUND LXXXXXXII	K02U			3300
GROUND LXXXXXXIII	K02V			3300
GROUND LXXXXXXIV	K02W			3300
GROUND LXXXXXXV	K02X			3300
GROUND LXXXXXXVI	K02Y			3300
GROUND LXXXXXXVII	K02Z			3300
GROUND LXXXXXXVIII	K02A			3300
GROUND LXXXXXXIX	K02B			3300
GROUND LXXXXXXX	K02C			3300
GROUND LXXXXXXXI	K02D			3300
GROUND LXXXXXXXII	K02E			3300
GROUND LXXXXXXXIII	K02F			3300
GROUND LXXXXXXXIV	K02G			3300
GROUND LXXXXXXXV	K02H			3300
GROUND LXXXXXXXVI	K02I			3300
GROUND LXXXXXXXVII	K02J			3300
GROUND LXXXXXXXVIII	K02K			3300
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GROUND LXXXXXXXV	K02B			3300
GROUND LXXXXXXXVI	K02C			3300
GROUND LXXXXXXXVII	K02D			3300
GROUND LXXXXXXXVIII	K02E			3300
GROUND LXXXXXXXIX	K02F			3300
GROUND LXXXXXXX	K02G			3300
GROUND LXXXXXXXI	K02H			3300
GROUND LXXXXXXXII	K02I			3300
GROUND LXXXXXXXIII	K02J			3300
GROUND LXXXXXXXIV	K02K			3300
GROUND LXXXXXXXV	K02L			3300
GROUND LXXXXXXXVI	K02M			3300
GROUND LXXXXXXXVII	K02N			3300
GROUND LXXXXXXXVIII	K02O			3300
GROUND LXXXXXXXIX	K02P			3300
GROUND LXXXXXXX	K02Q			3300
GROUND LXXXXXXXI	K02R			3300
GROUND LXXXXXXXII	K02S			3300
GROUND LXXXXXXXIII	K02T			3300
GROUND LXXXXXXXIV	K02U			3300
GROUND LXXXXXXXV	K02V			3300
GROUND LXXXXXXXVI	K02W			3300
GROUND LXXXXXXXVII	K02X			3300
GROUND LXXXXXXXVIII	K02Y			3300
GROUND LXXXXXXXIX	K02Z			3300
GROUND LXXXXXXX	K02A			3300
GROUND LXXXXXXXI	K02B			3300
GROUND LXXXXXXXII	K02C			3300
GROUND LXXXXXXXIII	K02D			3300
GROUND LXXXXXXXIV	K02E			3300
GROUND LXXXXXXXV	K02F			3300
GROUND LXXXXXXXVI	K02G			3300
GROUND LXXXXXXXVII	K02H			3300
GROUND LXXXXXXXVIII	K02I			3300
GROUND LXXXXXXXIX	K02J			3300
GROUND LXXXXXXX	K02K			3300
GROUND LXXXXXXXI	K02L			3300
GROUND LXXXXXXXII	K02M			3300
GROUND LXXXXXXXIII	K02N			3300
GROUND LXXXXXXXIV	K02O			3300
GROUND LXXXXXXXV	K02P			3300
GROUND LXXXXXXXVI	K02Q			3300
GROUND LXXXXXXXVII	K02R			3300
GROUND LXXXXXXXVIII	K02S			3300
GROUND LXXXXXXXIX	K02T			3300
GROUND LXXXXXXX	K02U			3300
GROUND LXXXXXXXI	K02V			3300
GROUND LXXXXXXXII	K02W			3300
GROUND LXXXXXXXIII	K02X			3300
GROUND LXXXXXXXIV	K02Y			3300
GROUND LXXXXXXXV	K02Z			3300
GROUND LXXXXXXXVI	K02A			3300
GROUND LXXXXXXXVII	K02B			3300
GROUND LXXXXXXXVIII	K02C			3300
GROUND LXXXXXXXIX	K02D			3300
GROUND LXXXXXXX	K02E			3300
GROUND LXXXXXXXI	K02F			3300
GROUND LXXXXXXXII	K02G			3300
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GROUND LXXXXXXXV	K02J			3300
GROUND LXXXXXXXVI	K02K			3300
GROUND LXXXXXXXVII	K02L			3300
GROUND LXXXXXXXVIII	K02M			3300
GROUND LXXXXXXXIX	K02N			3300
GROUND LXXXXXXX	K02O			3300
GROUND LXXXXXXXI	K02P			3300
GROUND LXXXXXXXII	K02Q			3300
GROUND LXXXXXXXIII	K02R			3300
GROUND LXXXXXXXIV	K02S			3300
GROUND LXXXXXXXV	K02T			3300
GROUND LXXXXXXXVI	K02U			3300
GROUND LXXXXXXXVII	K02V			3300
GROUND LXXXXXXXVIII	K02W			3300
GROUND LXXXXXXXIX	K02X			3300
GROUND LXXXXXXX	K02Y			3300
GROUND LXXXXXXXI	K02Z			3300
GROUND LXXXXXXXII	K02A			3300
GROUND LXXXXXXXIII	K02B			3300
GROUND LXXXXXXXIV	K02C			3300
GROUND LXXXXXXXV	K02D			3300
GROUND LXXXXXXXVI	K02E			3300
GROUND LXXXXXXXVII	K02F			3300
GROUND LXXXXXXXVIII	K02G			3300
GROUND LXXXXXXXIX	K02H			3300
GROUND LXXXXXXX	K02I			3300
GROUND LXXXXXXXI	K02J			3300
GROUND LXXXXXXXII	K02K			3300
GROUND LXXXXXXXIII	K02L			3300
GROUND LXXXXXXXIV	K02M			3300
GROUND LXXXXXXXV	K02N			3300
GROUND LXXXXXXXVI	K02O			3300
GROUND LXXXXXXXVII	K02P			3300
GROUND LXXXXXXXVIII	K02Q			3300
GROUND LXXXXXXXIX	K02R			3300
GROUND LXXXXXXX	K02S			3300
GROUND LXXXXXXXI	K02T			3300
GROUND LXXXXXXXII	K02U			3300
GROUND LXXXXXXXIII	K02V			3300
GROUND LXXXXXXXIV	K02W			3300
GROUND LXXXXXXXV	K02X			3300
GROUND LXXXXXXXVI	K02Y			3300
GROUND LXXXXXXXVII	K02Z			3300
GROUND LXXXXXXXVIII	K02A			3300
GROUND LXXXXXXXIX	K02B			3300
GROUND LXXXXXXX	K02C			3300
GROUND LXXXXXXXI	K02D			3300
GROUND LXXXXXXXII	K02E			3300
GROUND LXXXXXXXIII	K02F			3300
GROUND LXXXXXXXIV	K02G			3300
GROUND LXXXXXXXV	K02H			3300
GROUND LXXXXXXXVI	K02I			3300
GROUND LXXXXXXXVII	K02J			3300
GROUND LXXXXXXXVIII	K02K			3300
GROUND LXXXXXXXIX	K02L			3300
GROUND LXXXXXXX	K02M			3300
GROUND LXXXXXXXI	K02N			3300
GROUND LXXXXXXXII	K02O			3300

\* NOTE 1 CAPACITOR CARD PN 556981 IN K03 IS WIRED TO THE FOLLOWING NETS

J PIN TO GROUND VII  
 G PIN TO MINUS SIX VOLTS III  
 L PIN TO PLUS TWELVE VOLTS I  
 M PIN TO MINUS TWELVE VOLTS II  
 O PIN TO PLUS SIX VOLTS I

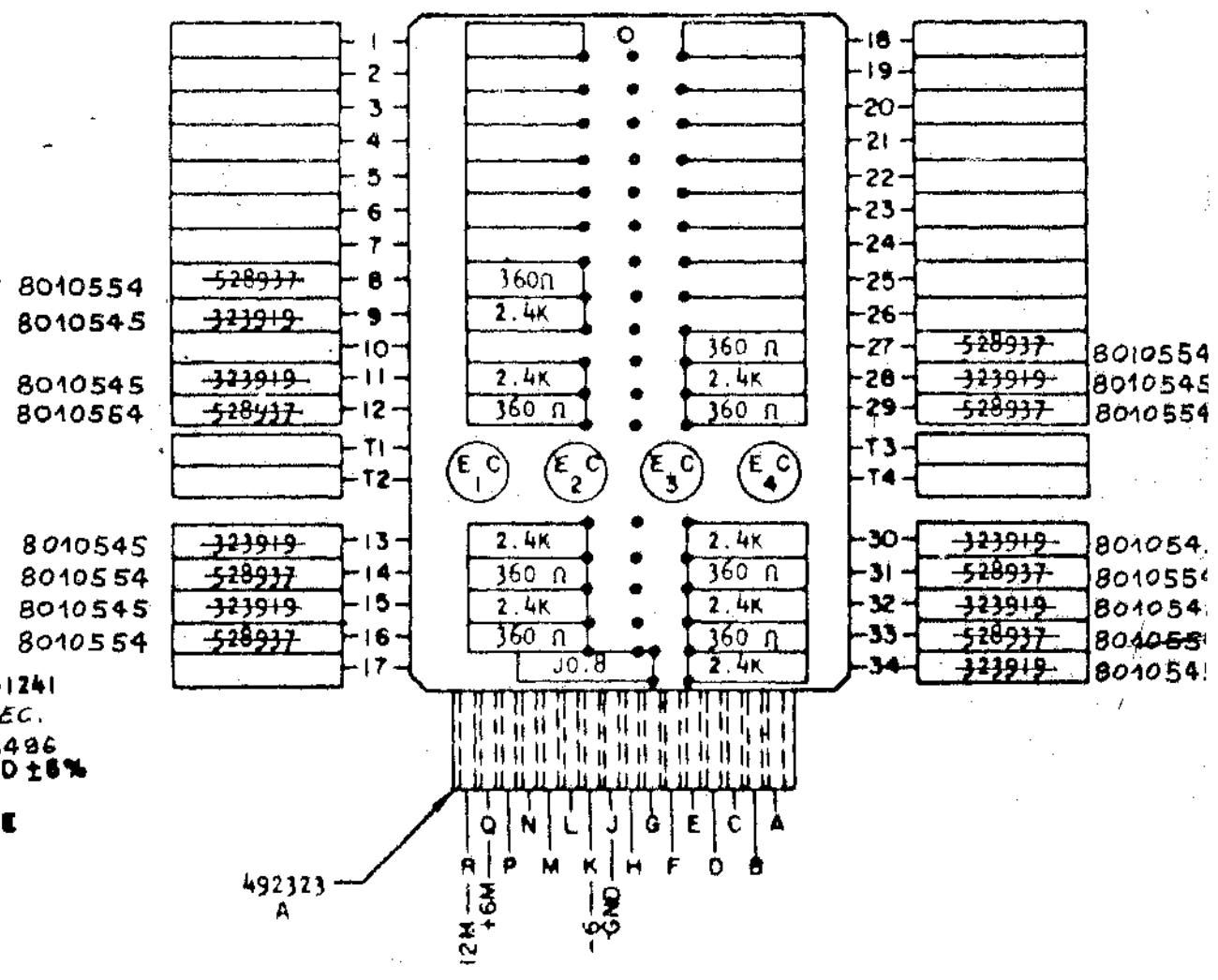
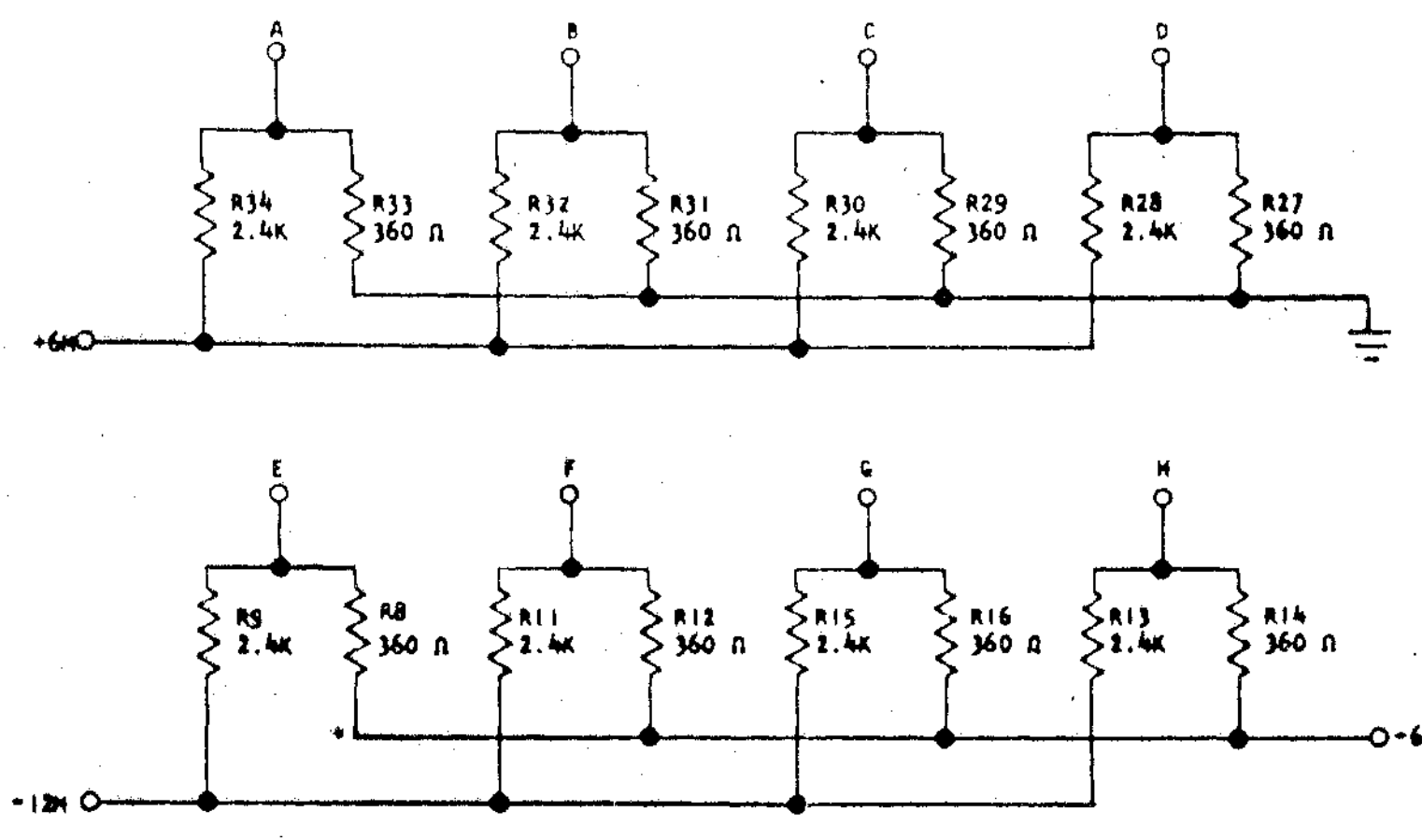
LINE	NAME	PIN	PAGE	BLOCK	COMMENTS
PLUS TWELVE VOLTS I	K01A				TB 4 7
PLUS TWELVE VOLTS I	F01Q	TU.07.10.4	2A		WRITE STATUS LITE
PLUS TWELVE VOLTS I	F01N	TU.07.10.4	2H		C TRACK LITE
PLUS TWELVE VOLTS I	F01L	TU.07.10.4	2G		D TRACK LITE
PLUS TWELVE VOLTS I	F01J	TU.07.10.4	2F		A TRACK LITE
PLUS TWELVE VOLTS I	F01G	TU.07.10.4	2E		B TRACK LITE
PLUS TWELVE VOLTS I	F01E	TU.07.10.4	2D		H TRACK LITE
PLUS TWELVE VOLTS I	F01C	TU.07.10.4	2C		4 TRACK LITE
PLUS TWELVE VOLTS I	F01A	TU.07.10.4	2B		2 TRACK LITE
PLUS TWELVE VOLTS I	E02A	TU.09.55.1	3B		1 TRACK LITE
PLUS TWELVE VOLTS I	D04N				LP+TI PHOTOCCELL
PLUS TWELVE VOLTS I	C04N				C ROW SUPPLY
PLUS TWELVE VOLTS I	B04N				B ROW SUPPLY
PLUS TWELVE VOLTS I	A28M				A ROW SUPPLY
PLUS TWELVE VOLTS I	A27Q				A ROW SUPPLY
PLUS TWELVE VOLTS I	B27Q				B ROW SUPPLY
PLUS TWELVE VOLTS I	E02A				22 OH CHOKE
PLUS TWELVE VOLTS I	D01G				PN 554161
PLUS TWELVE VOLTS I	D01G	TU.12.00.1	3B		FILE PROTECT RELAY R11 AL
PLUS TWELVE VOLTS I	D01G				
PLUS TWELVE VOLTS I	K03L				CAP CARD PN 556981
PLUS TWELVE VOLTS I	C18N				CARD JUMPER
PLUS TWELVE VOLTS I	C19Q				CARD JUMPER
PLUS TWELVE VOLTS I	C20N				CARD JUMPER
PLUS TWELVE VOLTS I	C05N				CARD JUMPER
PLUS TWELVE VOLTS I	C06Q				CARD JUMPER
PLUS TWELVE VOLTS I	C07N				CARD JUMPER
PLUS TWELVE VOLTS I	D09N				CARD JUMPER
PLUS TWELVE VOLTS I	D09Q				CARD JUMPER
PLUS TWELVE VOLTS I	D21N				CARD JUMPER
PLUS TWELVE VOLTS I	D21Q				CARD JUMPER
PLUS TWELVE VOLTS I	K28C				CAP. ASS
PLUS TWELVE VOLTS I	J28C				CAP. ASS
PLUS TWELVE VOLTS II	K01B				TB 4 7
PLUS TWELVE VOLTS II	J04N				J ROW SUPPLY
PLUS TWELVE VOLTS II	H04N				H ROW SUPPLY
PLUS TWELVE VOLTS II	G04N				G ROW SUPPLY
PLUS TWELVE VOLTS II	F04N				F ROW SUPPLY
PLUS TWELVE VOLTS II	E04N				E ROW SUPPLY
PLUS TWELVE VOLTS II	C05N				CARD JUMPER
PLUS TWELVE VOLTS II	E05Q				CARD JUMPER
PLUS TWELVE VOLTS II	E06N				CARD JUMPER
PLUS TWELVE VOLTS II	E06Q				CARD JUMPER
PLUS TWELVE VOLTS II	F25N				CARD JUMPER
PLUS TWELVE VOLTS II	F25Q				CARD JUMPER
PLUS TWELVE VOLTS II	F26N				CARD JUMPER
PLUS TWELVE VOLTS II	F26Q				CARD JUMPER
PLUS TWELVE VOLTS II	E10N				CARD JUMPER
PLUS TWELVE VOLTS II	E10Q				CARD JUMPER
PLUS SIX VOLTS I	K01H				TB 4 3
PLUS SIX VOLTS I	D01Q	TU.09.30.1	4C		HS ROW LITE
PLUS SIX VOLTS I	R04L				B ROW SUPPLY
PLUS SIX VOLTS I	A04L				A ROW SUPPLY
PLUS SIX VOLTS I	K01H				CAP CARD PN 556981
PLUS SIX VOLTS I	K01Q				
PLUS SIX VOLTS II	K01J				TB 4 3



LINE NAME	PIN	PAGE	BLOCK	COMMENTS
PLUS SIX VOLTS III	K15K			I/O SUPPLY T/C 132
PLUS SIX VOLTS III	K01J			TB 4 3
PLUS SIX VOLTS III	J04L			J ROW SUPPLY
PLUS SIX VOLTS III	H180			H ROW SUPPLY
PLUS SIX VOLTS III	G04L			G ROW SUPPLY
PLUS SIX VOLTS III	E03E			E ROW SUPPLY
PLUS SIX VOLTS III	U28L			WR PULSE HV SUPPLY
PLUS SIX VOLTS III	C28L			START STOP HV SUPPLY
PLUS SIX VOLTS III	H20L			CARD JUMPER
PLUS SIX VOLTS III	H20Q			CARD JUMPER
PLUS SIX VOLTS III	H21L			CARD JUMPER
PLUS SIX VOLTS III	H21Q			CARD JUMPER
PLUS SIX VOLTS III	G26L			CARD JUMPER
PLUS SIX VOLTS III	F26L			CARD JUMPER
PLUS SIX VOLTS III	F25L			CARD JUMPER
PLUS SIX VOLTS III	F23Q			CARD JUMPER
PLUS SIX VOLTS III	F22Q			CARD JUMPER
MINUS SIX VOLTS I	K01M	TU.13.10.1	5A	TB 4 2
MINUS SIX VOLTS I	E02N	TU.11.00.1	NE	VARY GO POT START STOP SW
MINUS SIX VOLTS I	D01L			R11 BL NFP
MINUS SIX VOLTS I	B04K			B ROW SUPPLY
MINUS SIX VOLTS I	A04K			A ROW SUPPLY
MINUS SIX VOLTS III	K01L			TB 4 2
MINUS SIX VOLTS III	H18X			H ROW SUPPLY
MINUS SIX VOLTS III	C28Q			<del>START STOP HV SUPPLY</del>
MINUS SIX VOLTS III	D28K			WR PULSE HV SUPPLY
MINUS SIX VOLTS III	E03K			E ROW SUPPLY
MINUS SIX VOLTS III	G04K			G ROW SUPPLY
MINUS SIX VOLTS III	A1PK			A ROW SUPPLY
MINUS SIX VOLTS III	G26K			CARD JUMPER
MINUS SIX VOLTS III	F26K			CARD JUMPER
MINUS SIX VOLTS III	F25K			CARD JUMPER
MINUS SIX VOLTS III	K01K			TB 4 2
MINUS SIX VOLTS III	K15P			I/O SUPPLY T/C 140
MINUS SIX VOLTS III	J15K			J ROW SUPPLY
MINUS SIX VOLTS III	K18K			
MINUS SIX VOLTS III	K03G			CAP CARD PH 556981
MINUS SIX VOLTS III	J18K			22 UH CHOKE
MINUS SIX VOLTS III	J22K			RW 554161
MINUS SIX VOLTS III	J28K			CAP ASS
MINUS SIX VOLTS III	H28K			CAP ASS
MINUS TWELVE VOLTS I	K01G			TB 4 6
MINUS TWELVE VOLTS I	K19N			MINUS TWELVE FOR CE PANEL
MINUS TWELVE VOLTS I	K06M			CARD 7G
MINUS TWELVE VOLTS I	K01G			
MINUS TWELVE VOLTS I	D01J	TU.11.00.1	2H	<del>THERM INTERLOCK SW</del>
MINUS TWELVE VOLTS I	A01J	TU.09.30.2	ND	RESISTOR HS LITE
MINUS TWELVE VOLTS I	E02E	TU.09.30.2	NB	PS REW LITE
MINUS TWELVE VOLTS I	C02E	TU.12.00.1	NF	LP, 11 BR TAPE LITES
MINUS TWELVE VOLTS I	C02E	TU.11.00.1	NF	DENSITY PB
MINUS TWELVE VOLTS III	K01C			TB 4 6
MINUS TWELVE VOLTS III	CC4M			C ROW SUPPLY
MINUS TWELVE VOLTS III	B04M			B ROW SUPPLY
MINUS TWELVE VOLTS III	B05M			VOLTAGE JUMPER
MINUS TWELVE VOLTS III	B05R			VOLTAGE JUMPER
MINUS TWELVE VOLTS III	K01C			
MINUS TWELVE VOLTS III	K03N			CAP CARD PH 556981
MINUS TWELVE VOLTS III	K01D			TB 4 6
MINUS TWELVE VOLTS III	D04M			D ROW SUPPLY
MINUS TWELVE VOLTS III	D04M			CARD JUMPER
MINUS TWELVE VOLTS III	D28M			CARD JUMPER
MINUS TWELVE VOLTS III	D28R			CARD JUMPER
MINUS TWELVE VOLTS IV	K01E			TB 4 6
MINUS TWELVE VOLTS IV	E04M			E ROW SUPPLY
MINUS TWELVE VOLTS V	K01F			TB 4 6
MINUS TWELVE VOLTS V	K15R			I/O SUPPLY T/C 170
MINUS TWELVE VOLTS V	K01F			TB 4 6
MINUS TWELVE VOLTS V	J04M			J ROW SUPPLY
MINUS TWELVE VOLTS V	H04M			H ROW SUPPLY
MINUS TWELVE VOLTS V	G04M			G ROW SUPPLY
MINUS TWELVE VOLTS V	F04M			F ROW SUPPLY

ALLOY-COUPLING NETWORKS FOR N AND P BLOCKS

371241  
 CODE NATURE  
 2.7045  
 AK--



- NOTES
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891241
  - XI ASSEMBLE TO ENGINEERING SPEC. 2084692, 2093495 AND 2093486
  - XII ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
  - XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296

USE WITH SPECIFICATION 8010600

IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NCM	CARD ASM TSTR ALLOY		17.3.60	EC 108573						
COUPLING NETWORKS FOR N&P BLOCKS			15.9.60	JT 47000						
PROJ		TYPE	15.8.61	EC 112388						
DESIGN	DJa	28.10.61	9.11.61	JT 48792						
VERIF		CALQ								
APPR		VERIF	6.11.61	CLH						

1471/C

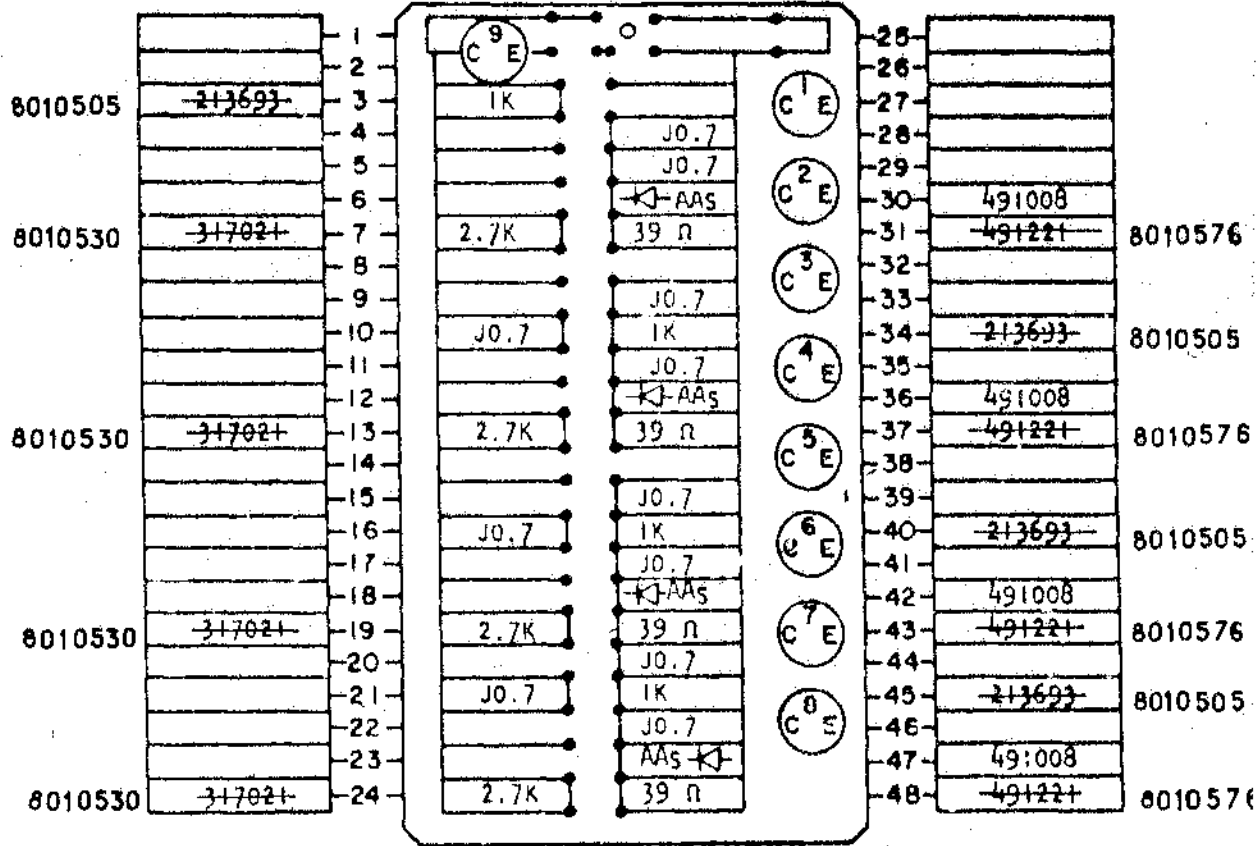
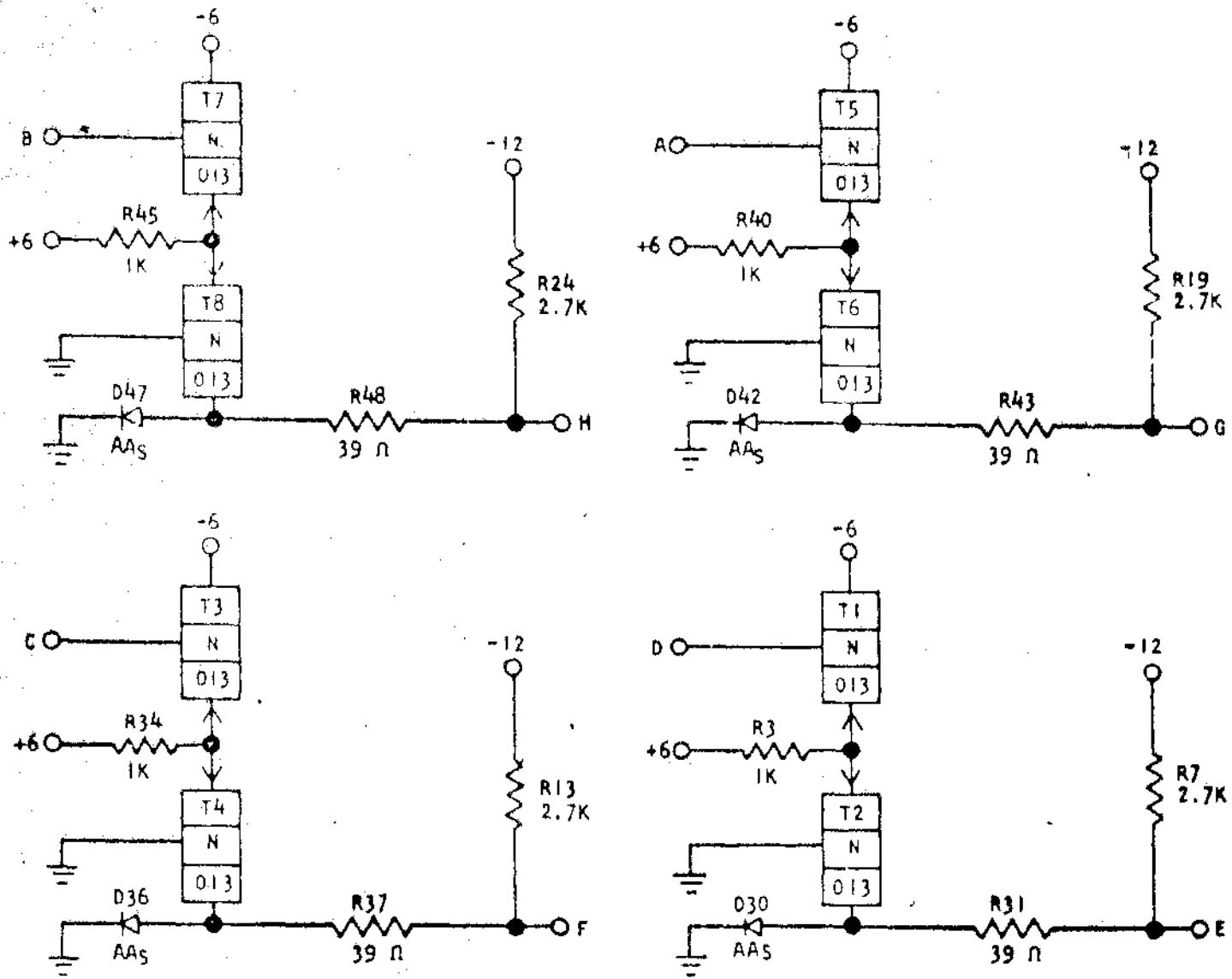
370639

CODE  
NATURE  
2-7045

APE

ALLOY-CONVERTER (N LINE T

370639



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892639
  - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692, 2093495 AND 2093496
  - III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
  - III "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

USE WITH SPECIFICATION 8010600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR ALLOY CONVERTER (N LINE TO S LINE)			15.6.61	EC112132				
PROJET		TYPE	SMS	21.9.61	JT47022				
DESSIN	TJc	11-9-61	ECHEL						
VERIF.		9.9.61	CALQ	RDA40	26.7.61				
APPR	poc	17.7.61	VERIF	CLM	18.9.61				

RCC/CC/C



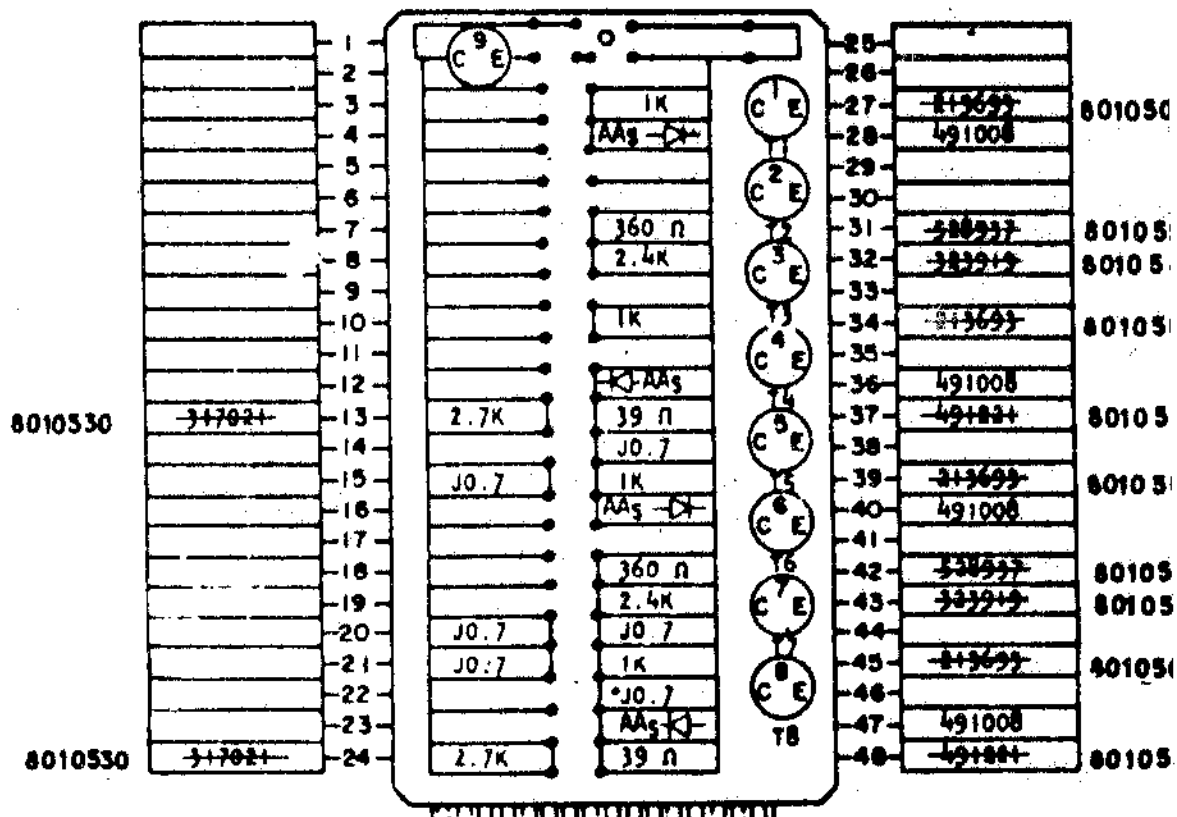
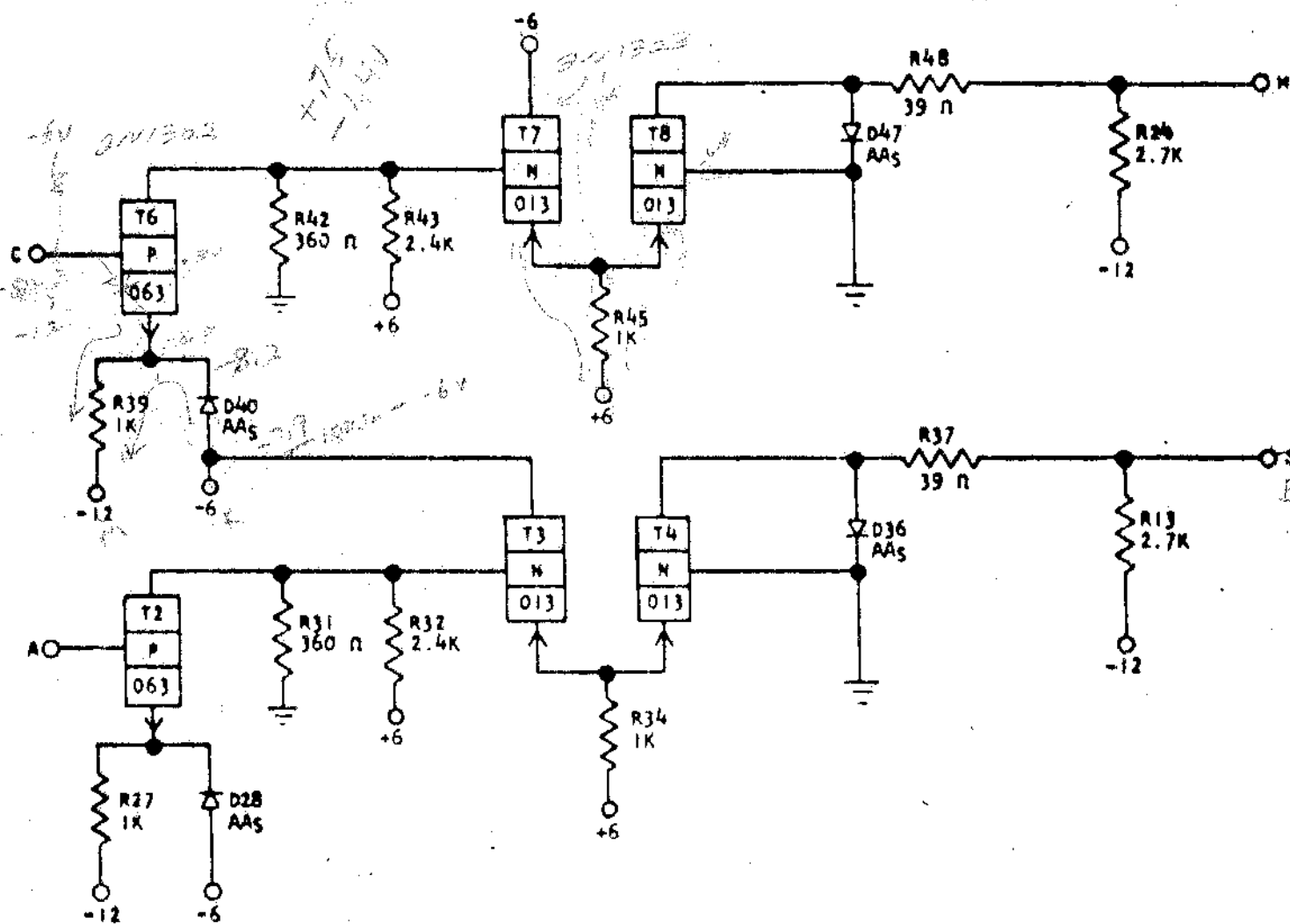
370640

A P F

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, 2083485 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°
WGM	CARD ASM TSTR ALLOY CONVERTER (N LINE TO S LINE)			15.6.61	EC112132				
PROJET		TYPE	SMS	21.9.61	WT47022				
DESSIN	DW	11.9.61	RECEL						
VERIF		4.9.61	CALQ	20.7.61					
APPR	PC		VERIF	CM	18.9.61				





370642

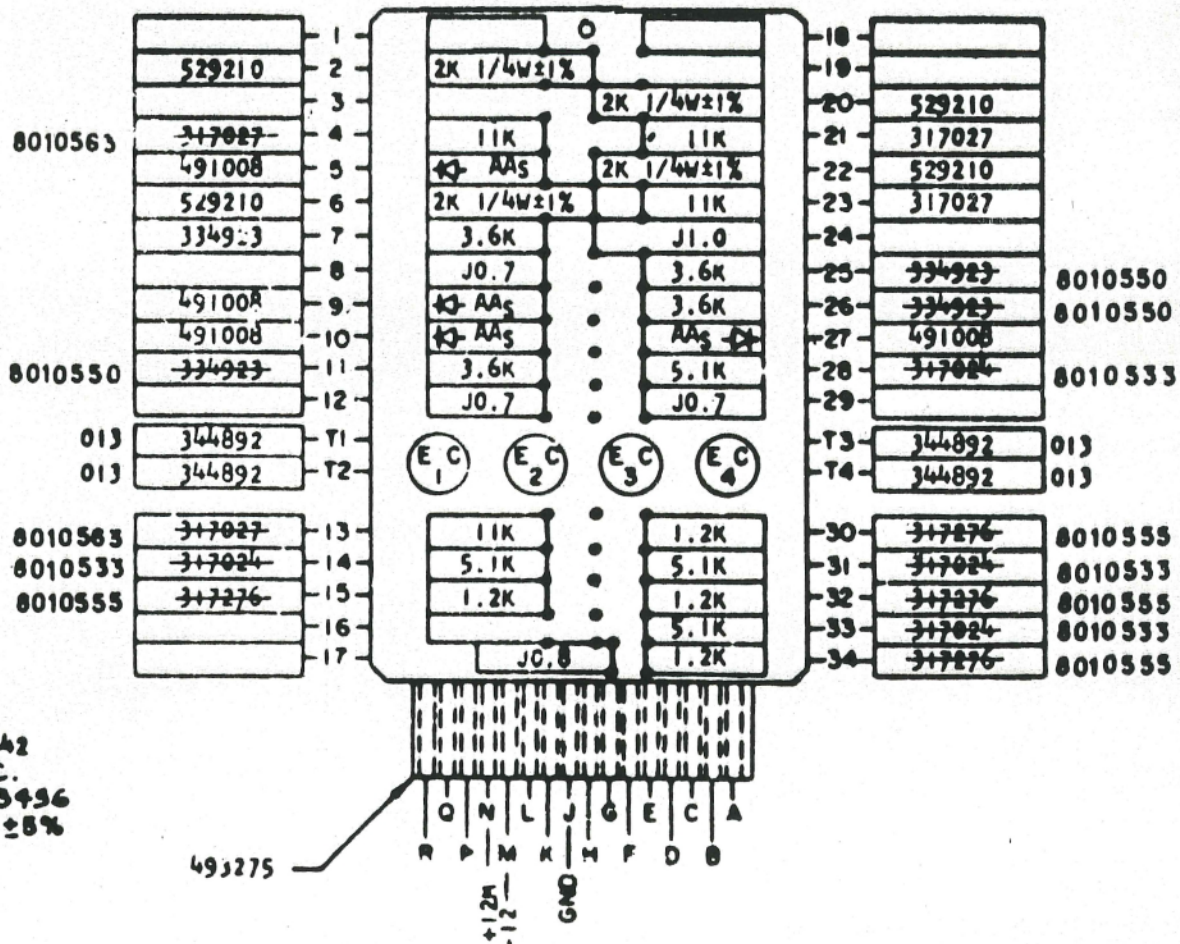
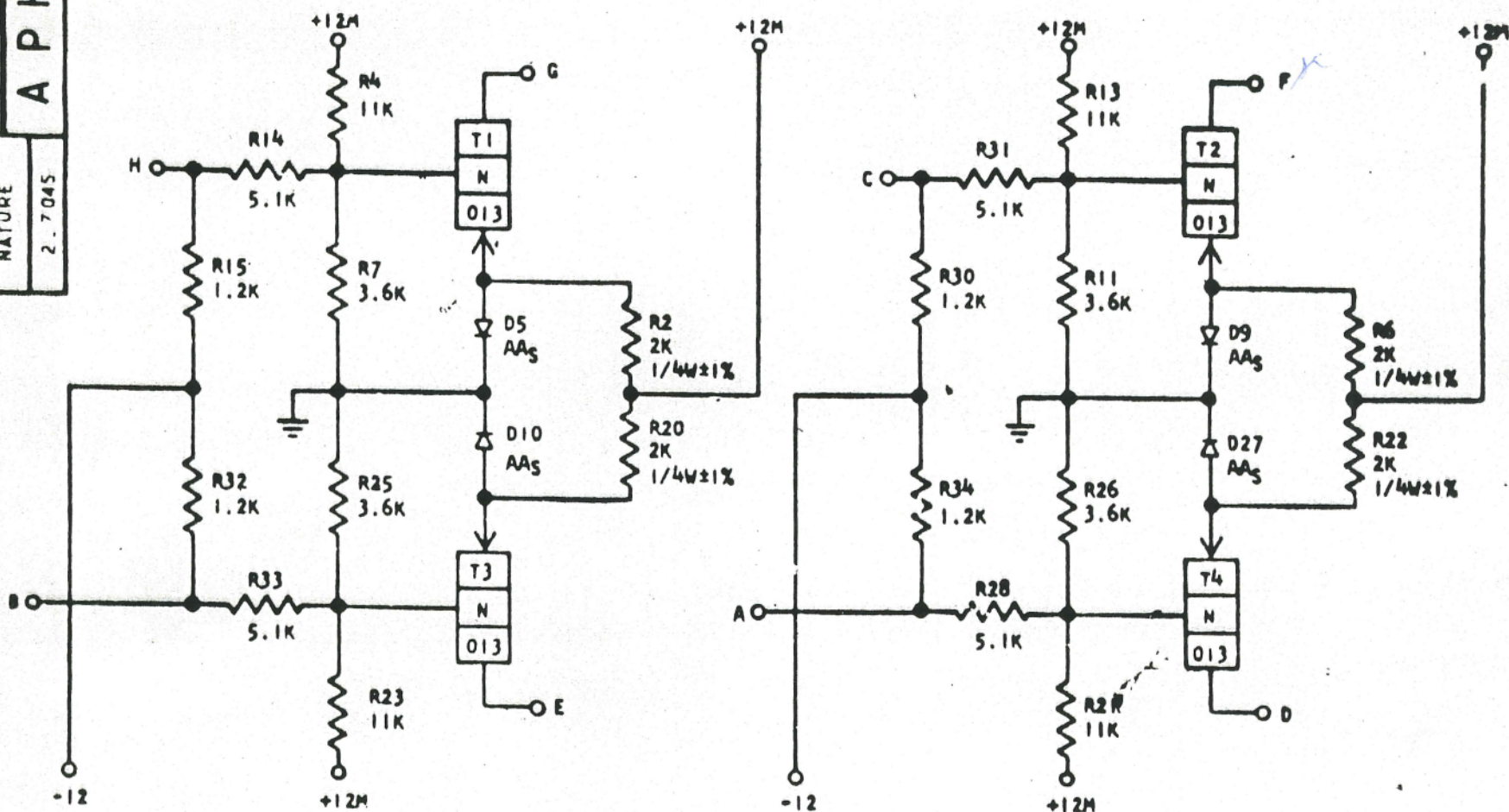
A P H

CODE  
NATURE

2.7045

ALLOY CONVERTER "S" LINE TO "P" LINE

370642



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892642
- II ASSEMBLE TO ENGINEERING SPEC. 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

USE WITH SPECIFICATION 8010600

IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NGM	CARD ASM TSTR ALLOY		15.6.61	EC112132						
	CONVERTER(N LINE TO S LINE)		21.9.61	JT47022						
PROJCT		TYPE	SMS							
DESIGN	11-9-61	SCHEM								
VERIF	9.9.61	CALC	20.7.61							
	9.9.61	VERIF	18.9.61							

370642



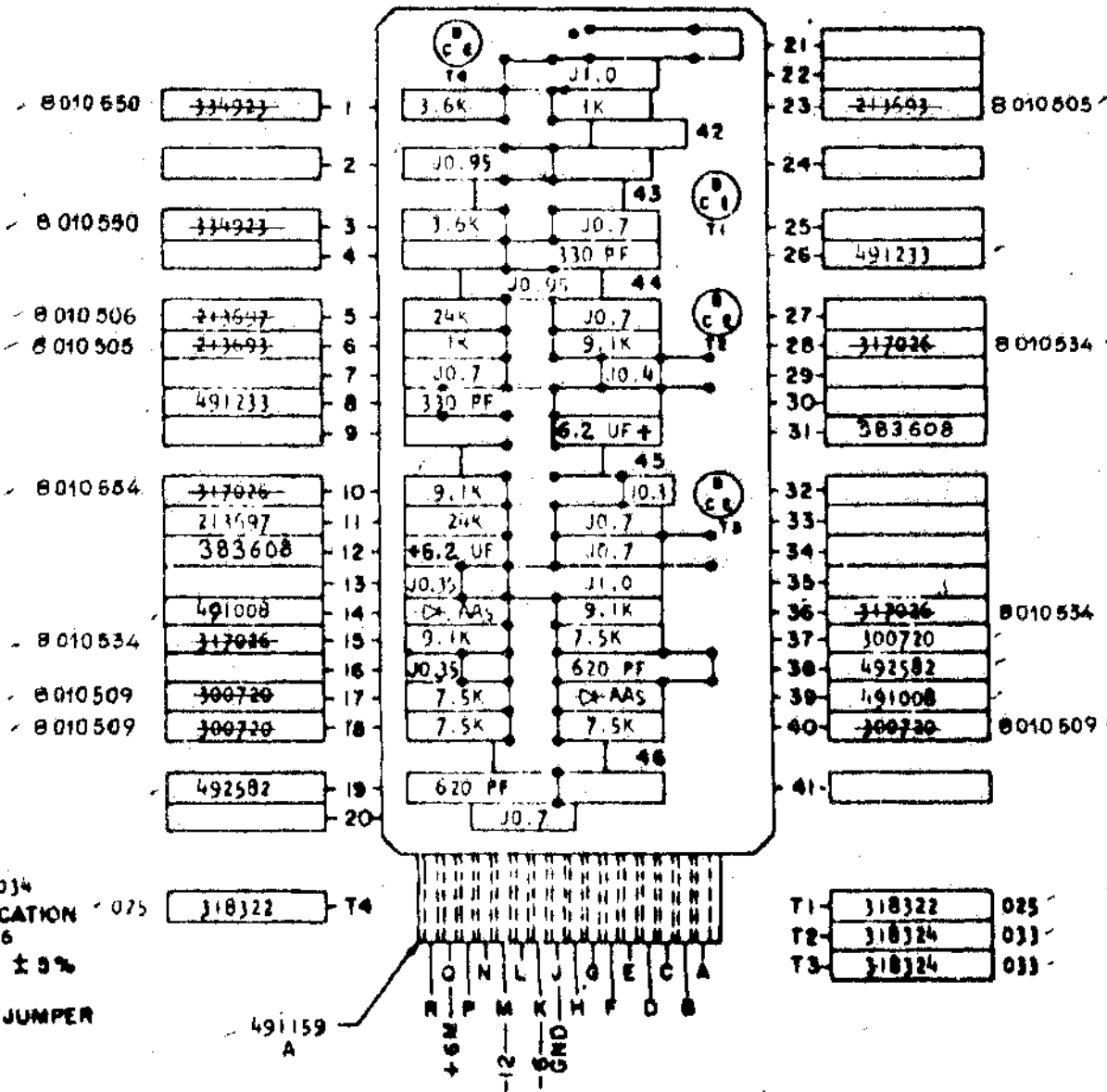
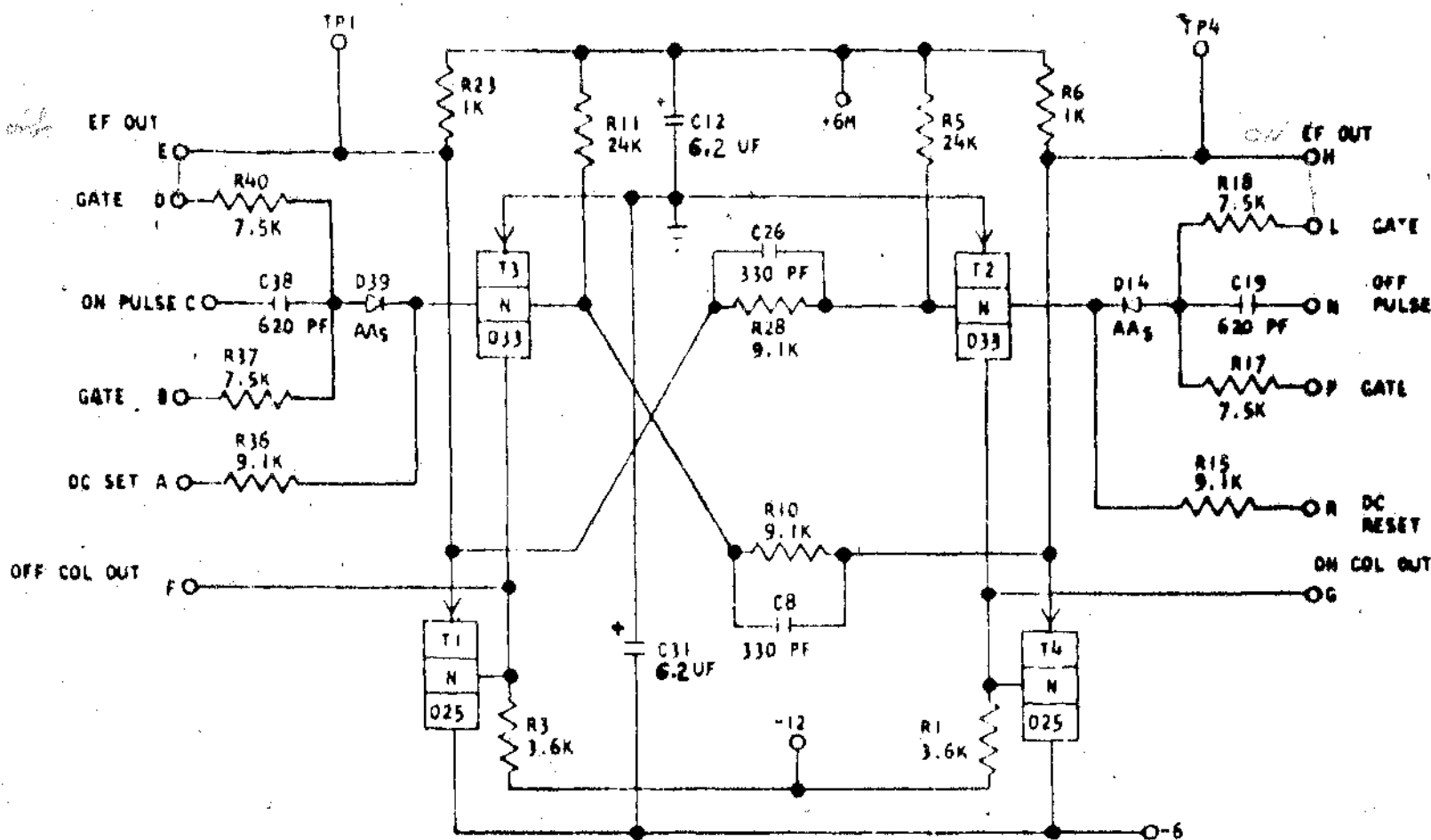
371034

AR - -

CODE  
NATURE  
2-7D45

371034

CTRL TRIGGER #1



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891034
  - II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692 - 2095495 AND 2093496
  - III ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
  - IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491298

COMPONENT SIDE

HOLE PATTERN  
493456

USE WITH SPECIFICATION 8010800

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOV	CARD ASM TSTR-CTRL	23-3-60	EC 108 583	17-1-61	EC 110 970	21-12-61	EC 113082	20 OCT. 1962	JT. B4689
	TRIGGER #1	2-11-60	JT 47005	11-5-61	JT 47647	19-3-62	JT 81801		
PROJCT	TYPE SMS	20-5-60	EC 108 700	15-9-61	EC 112 660	24-5-62	JT 81852		
DESIGN	CHG	8-12-60	JT 47 986	30-7-67	JT 80 858	14-6-68	EC 116448		
VERIF	CALC					21-9-62	JT 82898		
APPR	VERIF								

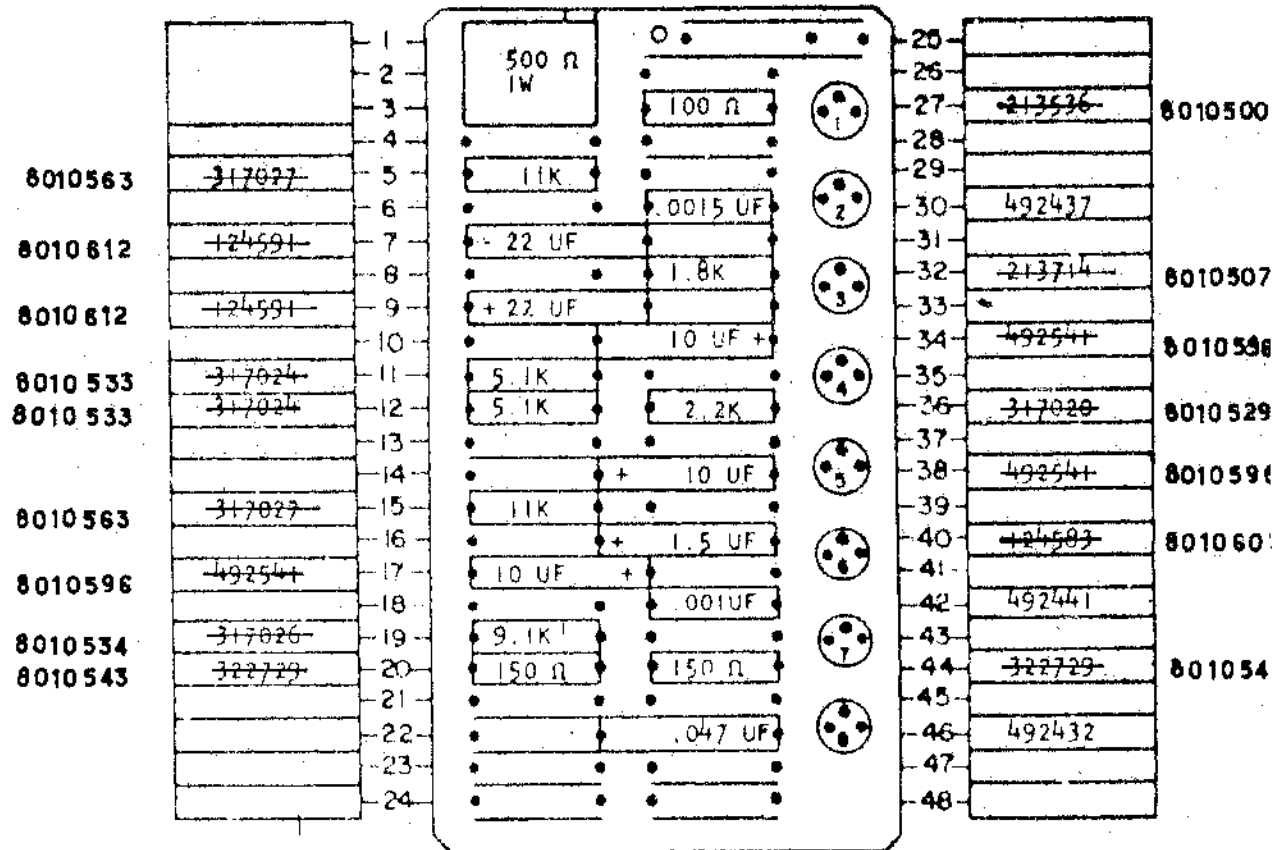
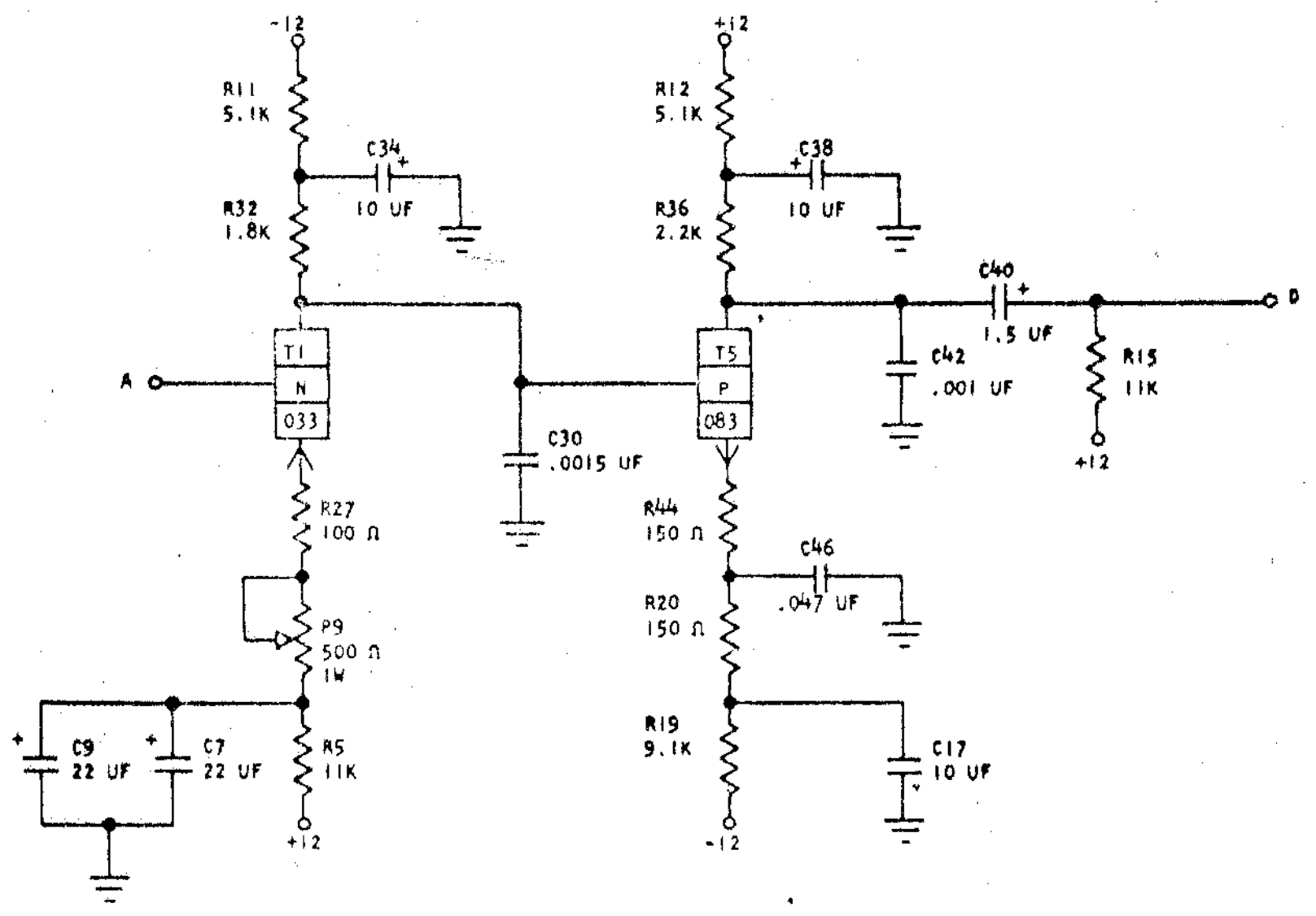
371034



370706  
ARK-

370706

ALLOY - PRE AMP NO. 1 MAGNETIC TAPE



- 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 TO BE MOUNTED AND SOLDER AFTER BOARD HAS BEEN CLEANED. ASSEMBLY WITH JEDEC PAD 491299



HOLE PATTERN  
493457

USE WITH SPECIFICATION 8010000

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NO	CARD ASM TSTR ALLOY	DATE	22-8-61	EC112444					
PROJECT	PRE AMP NO 1 MAGNETIC TAPE	TYPE	18.10.61	JT47023					
DESIGN	27-8-61	CHKD							
VERIFY	27-8-61	DATE	27-8-61						
APPD	11-10-61	VERD	9-10-61						

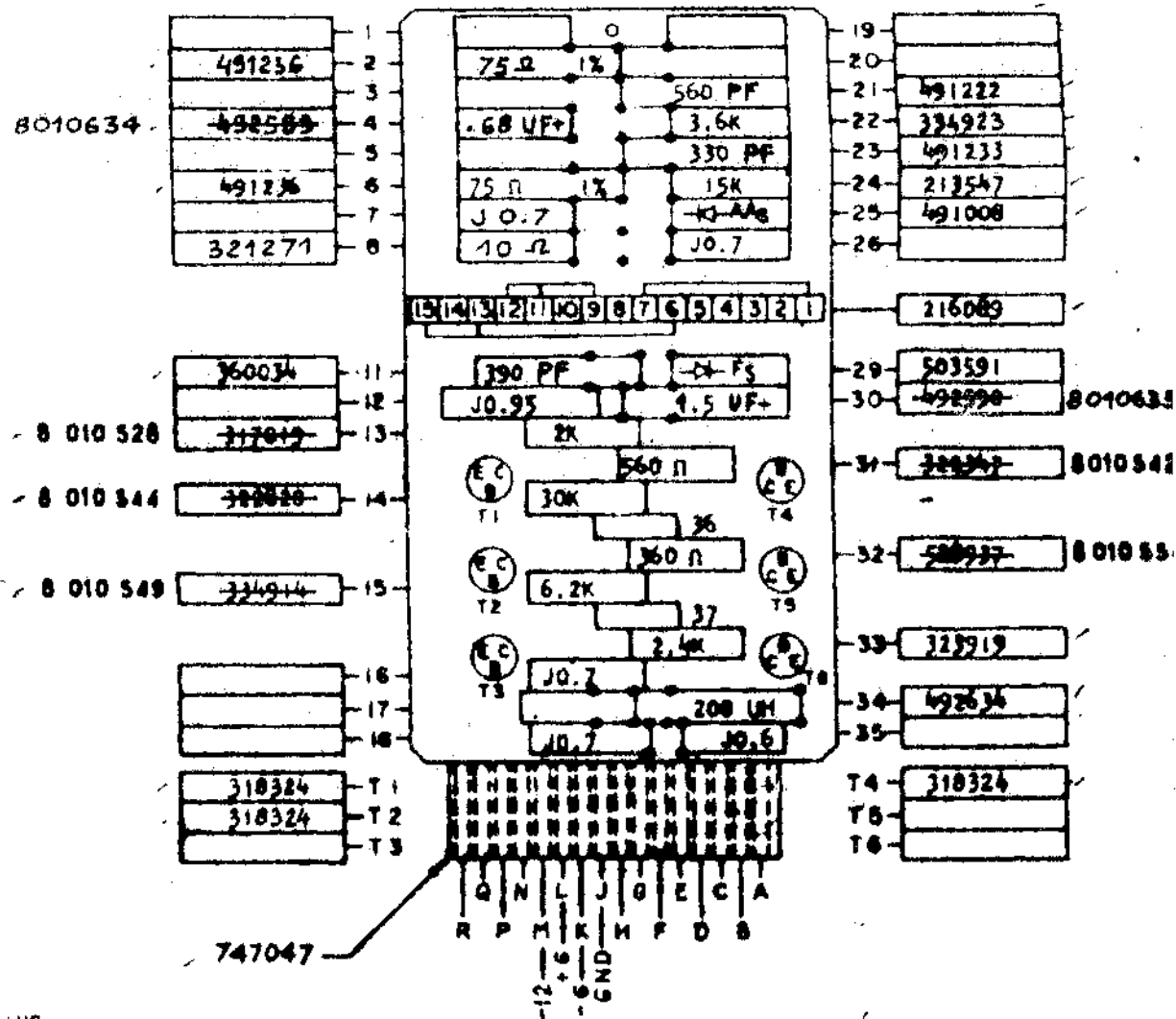
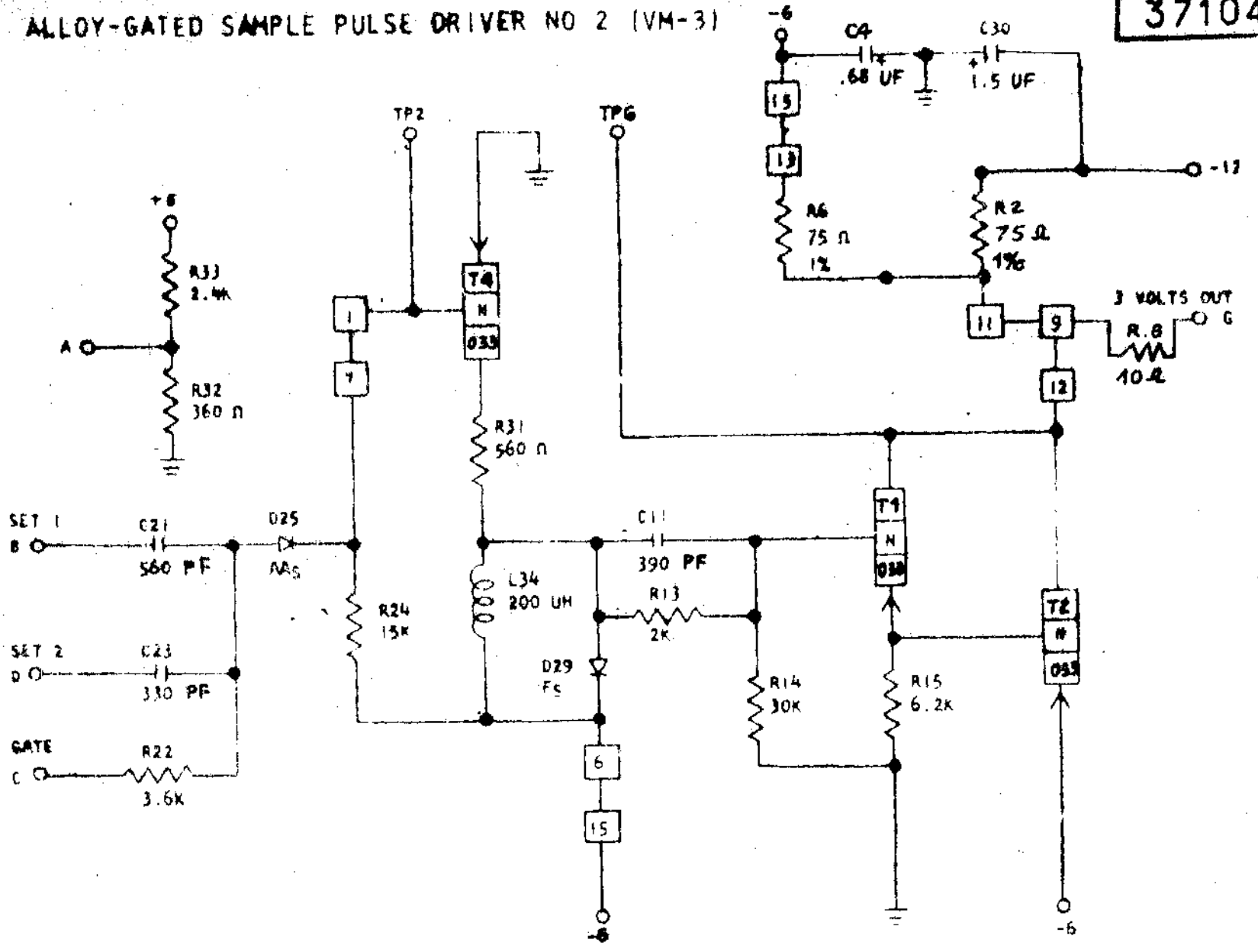




371041  
AYWS  
CODE  
MATURE  
2-7-65

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

371041



- NOTES  
 I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891041  
 II ASSEMBLE TO ENGINEERING SPECIFICATION 2 084 892 - 2 093 495 AND 2 093 498  
 III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED  
 IIII "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296

HOLE PATTERN  
491020

USE WITH SPECIFICATION 8010800

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR - ALLOY	30.11.58	EC 107 784	20-6-61	EC 112148				
	GATED S.P.D #2 (VM-3)	19.9.60	JT 47001	9-11-61	JT 48390				
PROJ		13.12.60	EC 110 872		JT 80876				
DESIGN		6.3.61	JT 47 822	28-11-62	EC 115866				
VERIF				17 APR 66	JT 83721				
APPL									

170170







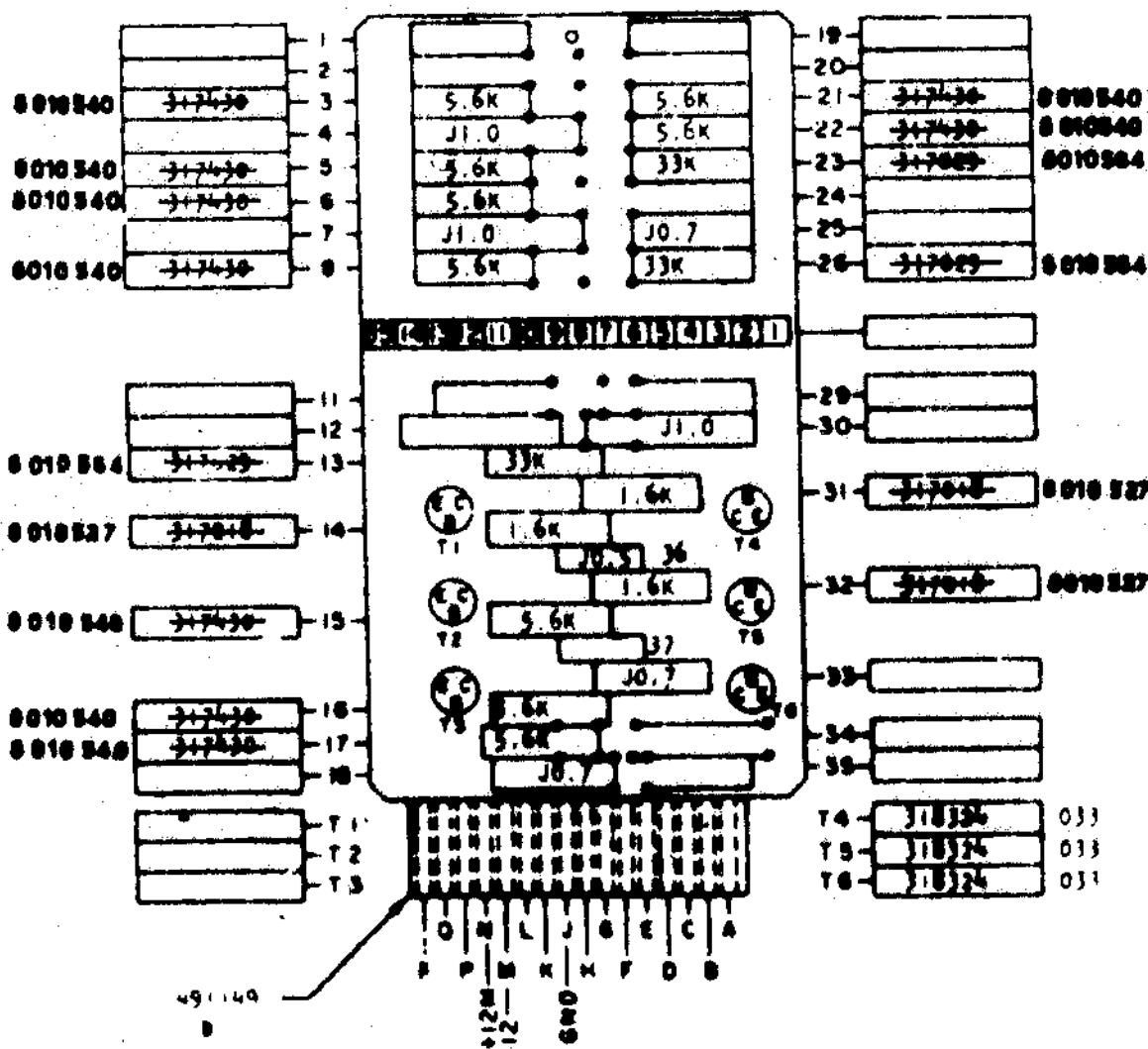
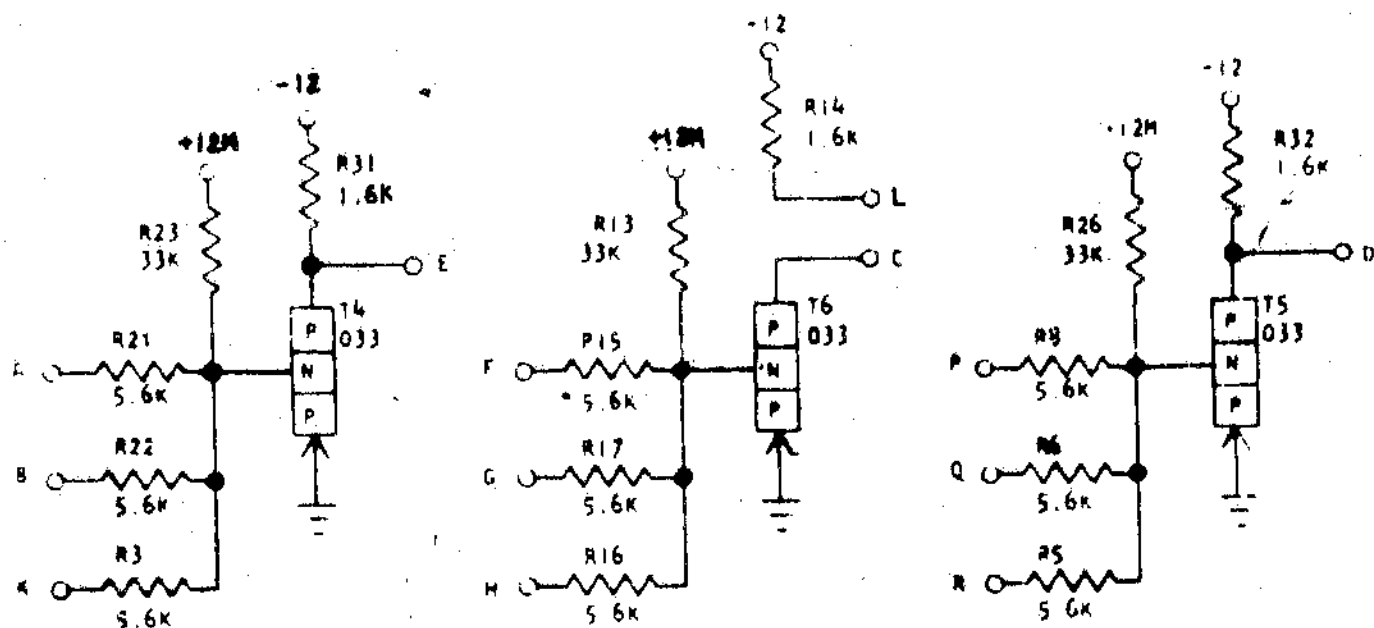
371029

CD--

CODE  
NATURE  
2-7045

CTRL INVERTERS "N" TYPE

371029



COMPONENT SIDE

- NOTES
- I TEST TO ENGINEERING SPECIFICATION 991021
  - II ASSEMBLE TO ENGINEERING SPECIFICATIONS 8004002, 8003400 AND 8003400
  - III ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED
  - XXXX "\*" IN BLOCK DENOTES BARE WIRE RUMPER.

USE WITH SPECIFICATION 8010000

IBM		DA	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NO.	CARD ASM TSTR CTRL	20.6.60	EC 109187						
	INVERTERS "N" TYPE	24.2.61	JT 47013						
DESIGN	TYPE								
DESIGN	REVIS								
VERIFIED	CALC.								
APPROVED	VERIFIED								

371029



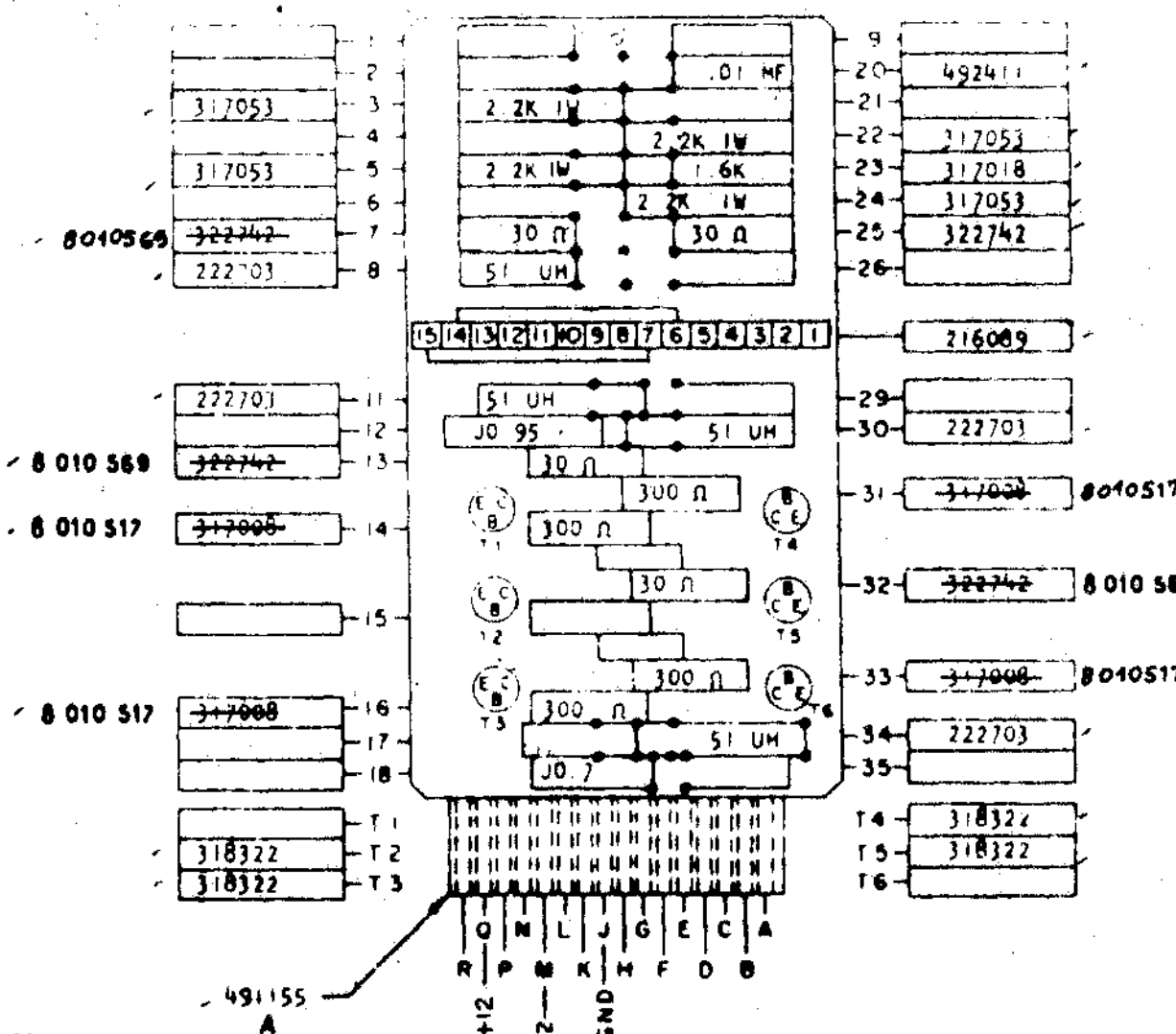
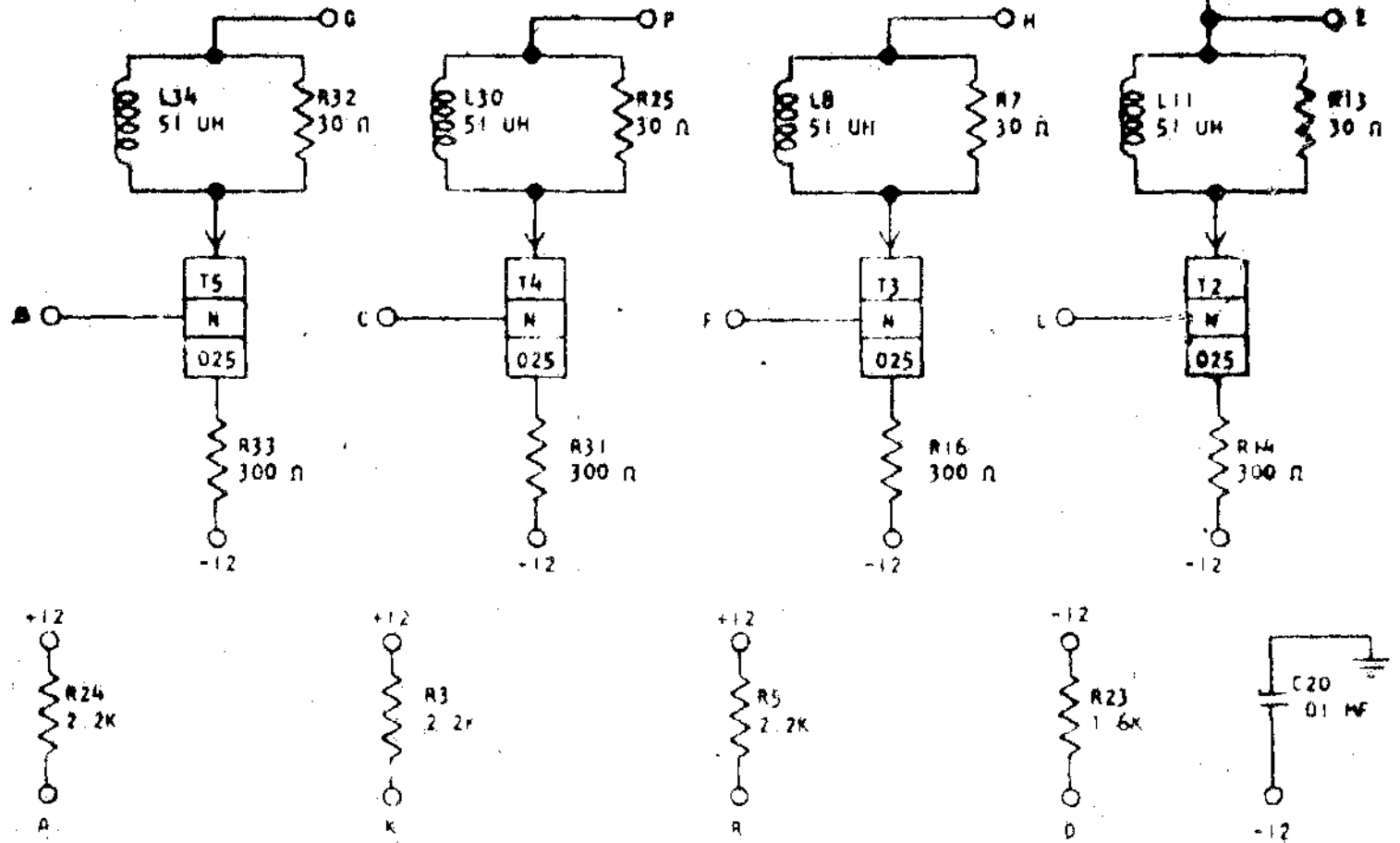
371032

CEYB

CODE NATURE 2.7045

CTRL - EMITTER FOLLOWER PNP

371032



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891032
  - II ASSEMBLE TO ENGINEERING SPECIFICATION 2 084 892, 2 093 495 AND 2 093 496
  - III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED
  - IV "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296

USE WITH SPECIFICATION 8050800

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR CTRL			8.11.58	EC105 502	7-6-61	JT 48 923				
	EMITTER FOLLOWER PNP			19.9.60	JT 47001	29.1.62	JT 80876				
PROJET		TYPE	SMS	14.12.60	EC110 502						
DESSIN		ECHEL		1.3.61	JT 47621						
VERIF		CALQ	CLM 2.5.2.61	27.1.61	EC 111089						
APPR		VERIF									

371032

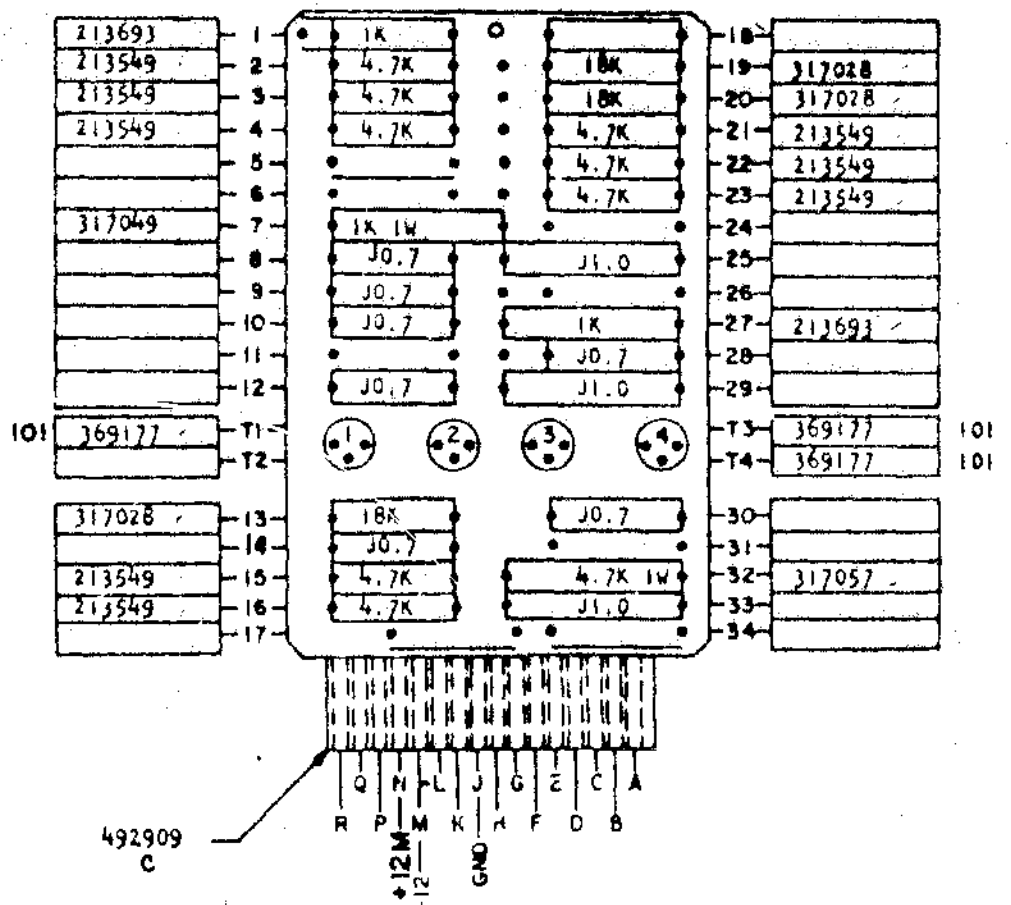
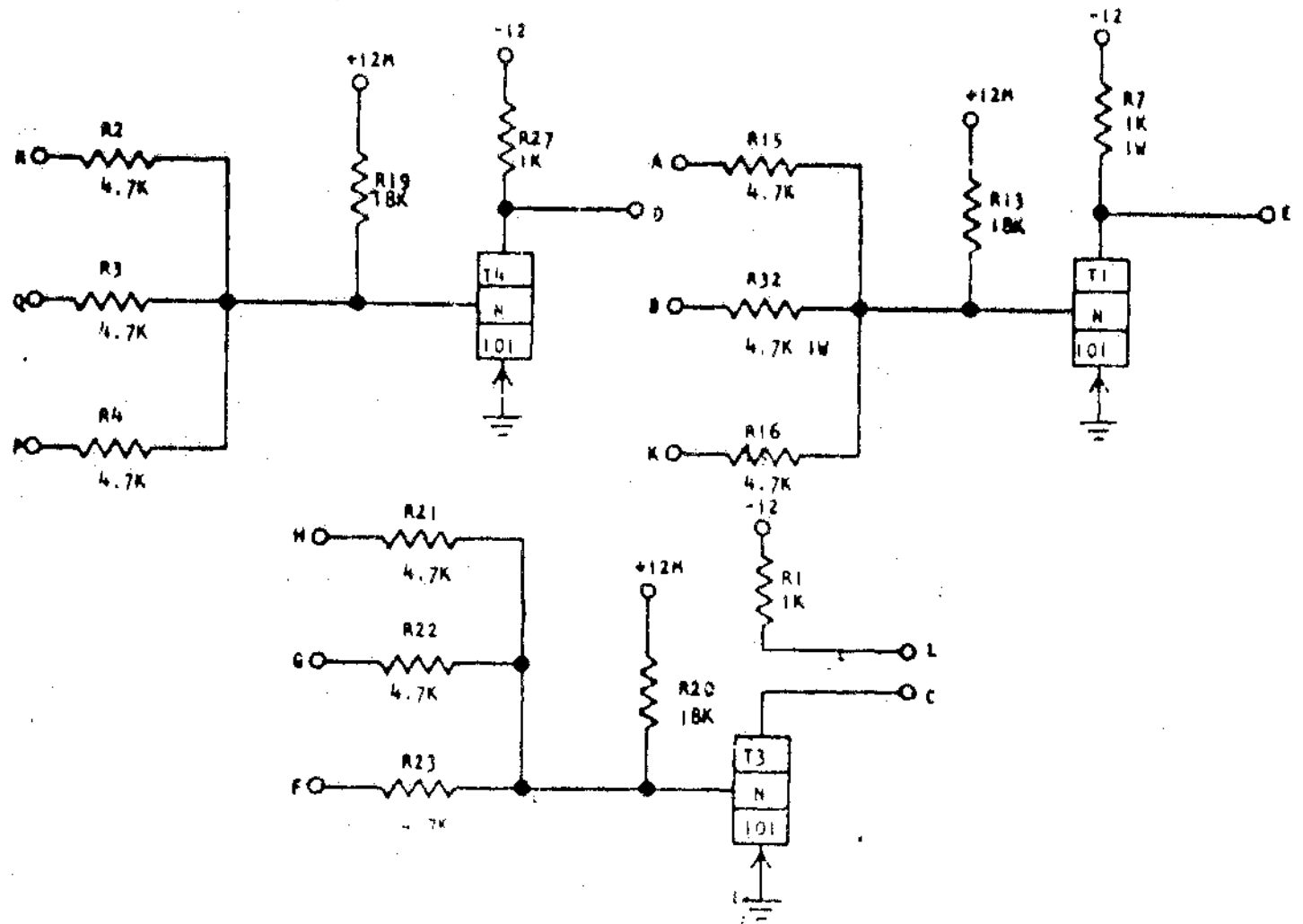
371951

DAC-

371951

SDTRL - 3 WAY INVERTER NUMBER 2

CODE  
NATURE  
2-7045



NOTES

- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892367
- II ASSEMBLE TO ENGINEERING SPECIFICATION 2084692-2095495 AND 2095496
- XII ALL RESISTORS ARE 1/2 WATT AND 1% UNLESS OTHERWISE NOTED
- XIII "J" IN BLOCK DENOTES BARE WIRE JUMPER 491298
- XIV
- XV 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

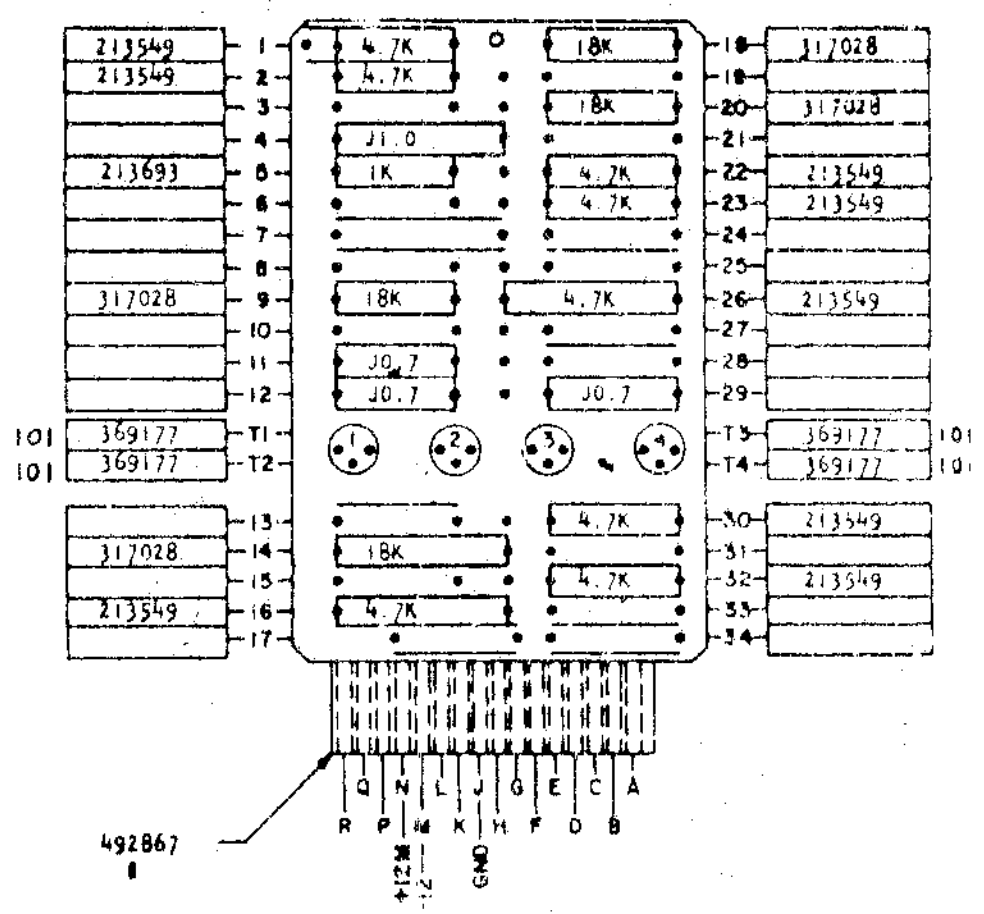
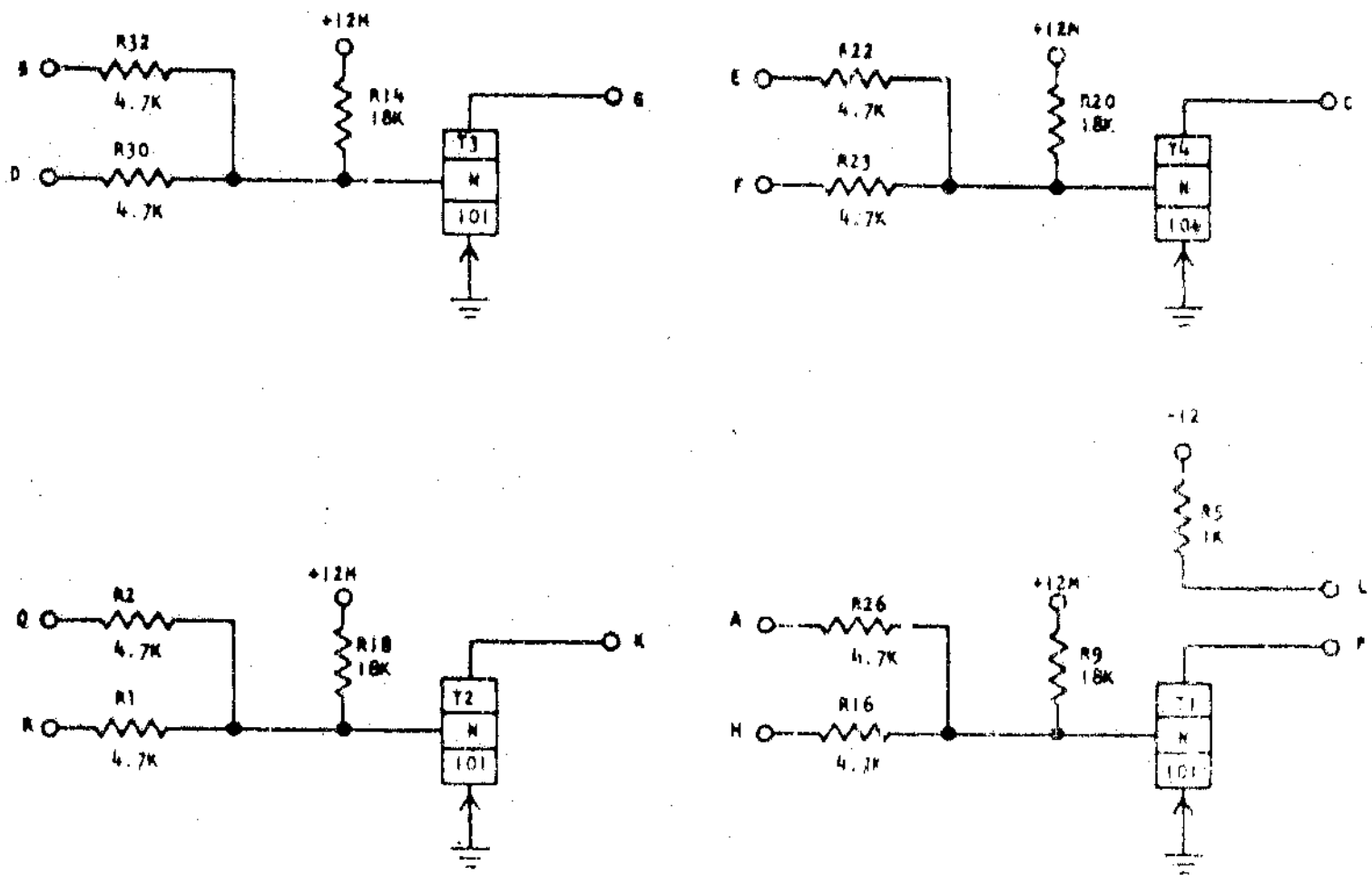
USE WITH SPECIFICATION 8D10800

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR - SDTRL - 3			21.6.60	EC 106572	23.5.62	EC 113942		
	WAY INVERTER NUMBER 2			24.2.61	JT 47013	20.9.62	JT 82893		
PROJCT		TYPE	SMS	25.5.61	EC 112019	11.8.62	EC 113628		
DESIGN	FE 4.9.62	CMEL		21.8.61	JT 48033	27 NOV 1962	JT 82869		
VERIF		CALG							
APPR		VERIF							



SDTRL-INVERTER, 2 WAY, UNLOADED COLLECTORS

370084  
DAX-  
2-7045



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 5% UNLESS OTHERWISE NOTED
- IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
- V POSITIONS T1, T2, T3, T4, ARE T0-18 TRANSISTORS AND MAY BE MOUNTED IN .100 OR .200 PIN CIRCLE HOLES. USE TRANSISTOR SPACER 483070 FOR .200 PIN CIRCLE MOUNTING

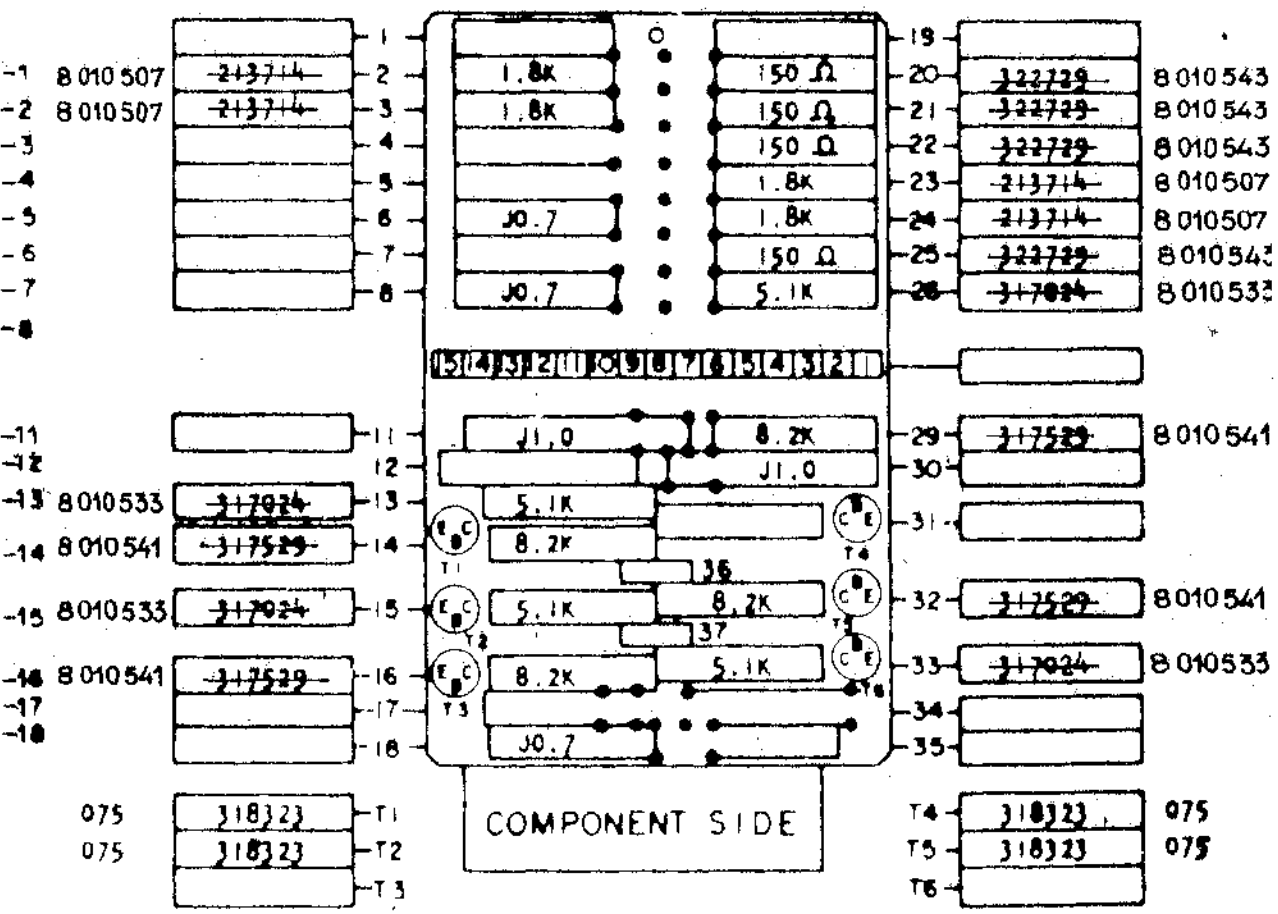
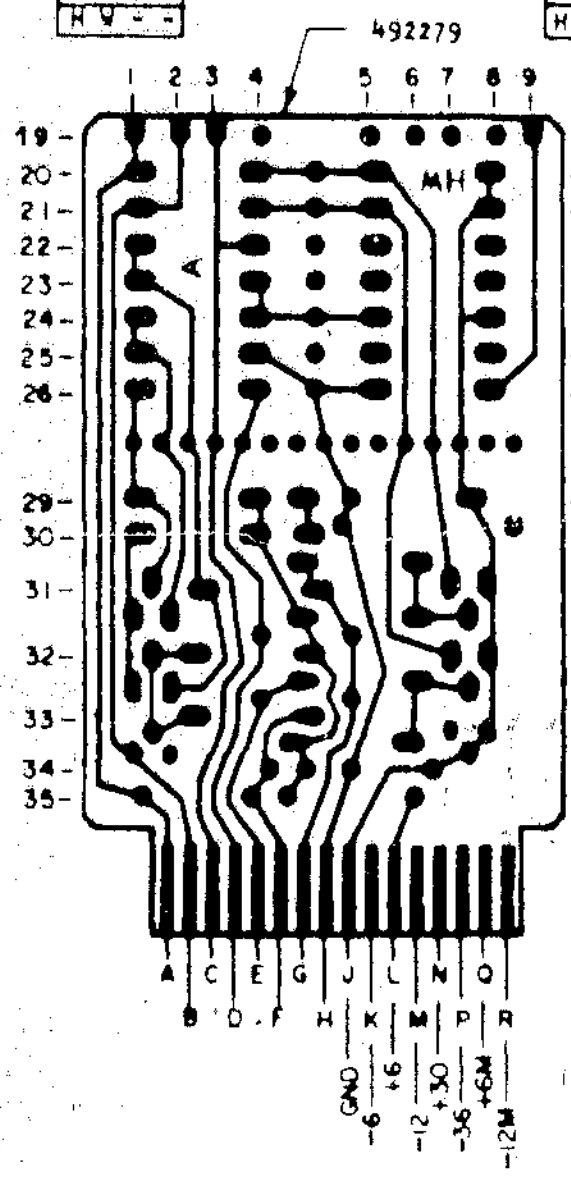
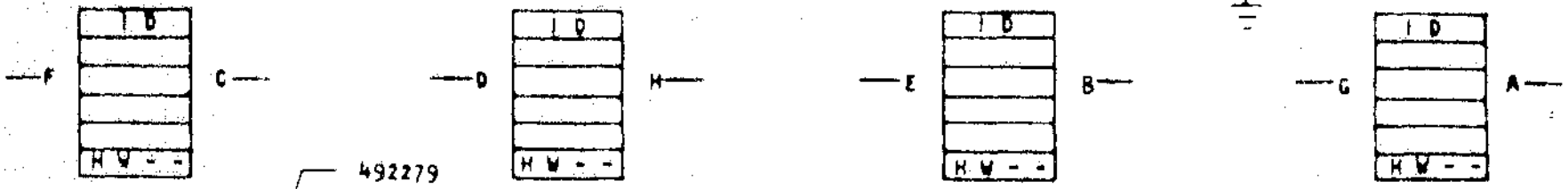
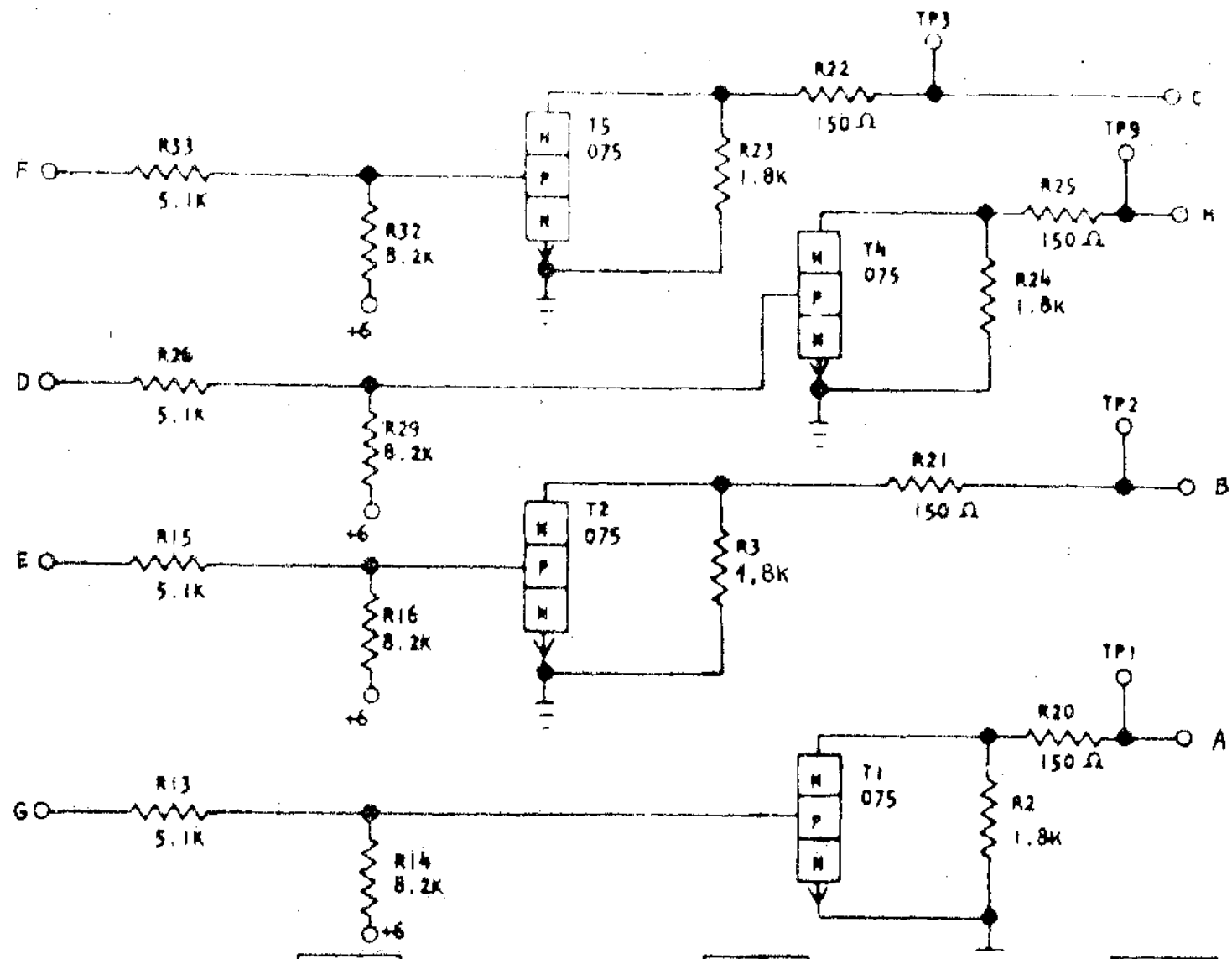
HOLE PATTERN 491329

USE WITH SPECIFICATION 8010800

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NDM	CARD ASM TSTR-SDTRL INVERT	25-8-60	EC 109878	23-5-62	EC 113942				
	ER, 2WAY, UNLOADED COLLECTORS	30-1-61	JT 47010	20-8-62	JT 82893				
PROJET		25-5-61	EC 112019	28-9-62	EC 114364				
DESIGN	4-9-62								
VERIF		28-9-61	JT 48827	9 JAN 1963	JT 82759				
APPR									

ALLOY-INDICATORS, LAMP, VM

371048  
CODE NATURE  
2.7045  
HW



- NOTES
- I ASSEMBLE TO ENGINEERING SPECIFICATION-2084682, 2093495 AND 2093496
  - II "J" IN BLOCK DENOTES BARE WIRE JUMPER, 491296
  - III ALL RESISTORS ARE 1/2 WATT AND 5% UNLESS OTHERWISE NOTED
  - IV ASSEMBLE WITH JEDEC TRANSISTOR
  - V TEST TO ENGINEERING SPECIFICATION 891048

USE WITH SPECIFICATION 8010500

IEM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOV	CARD ASM TSTR -ALLOY-INDICATOR, LAMP, VM	25-2-59	EC 105935						
PROJET		18.10.61	JT47023						
DESIGN	DJG 21-6-61								
VERIF									
APPR	PCC 11-10								

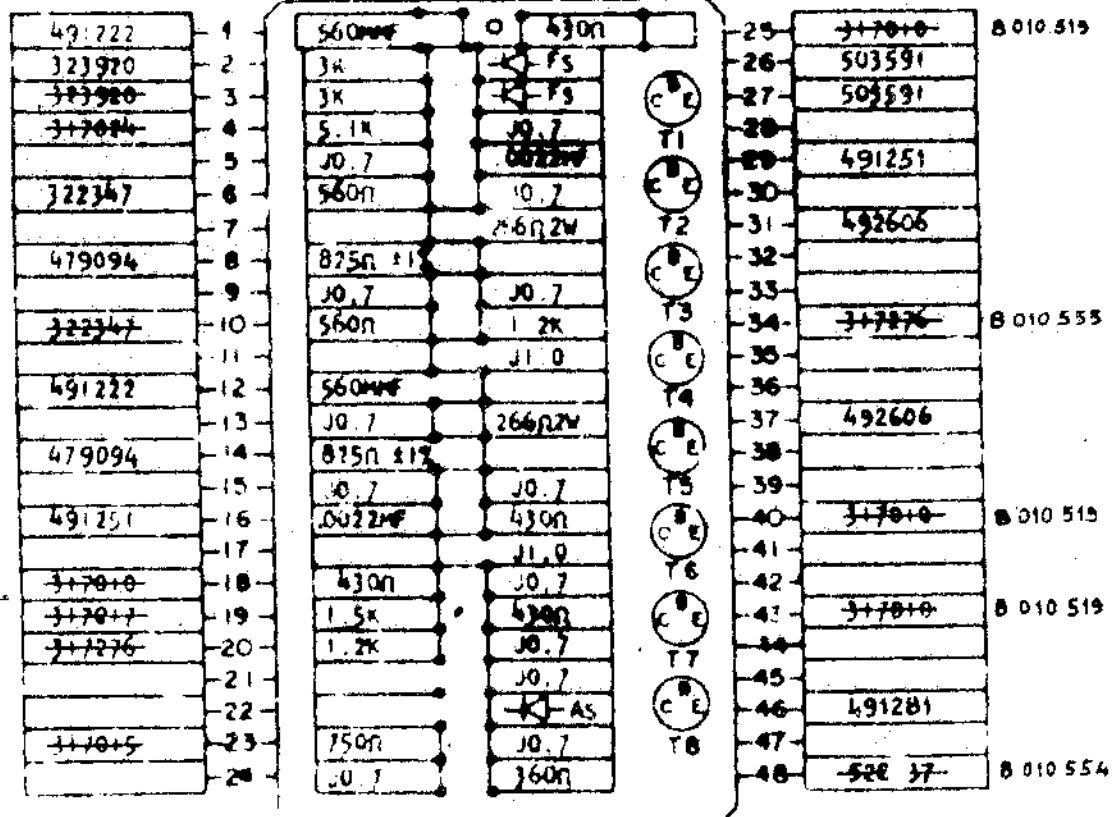
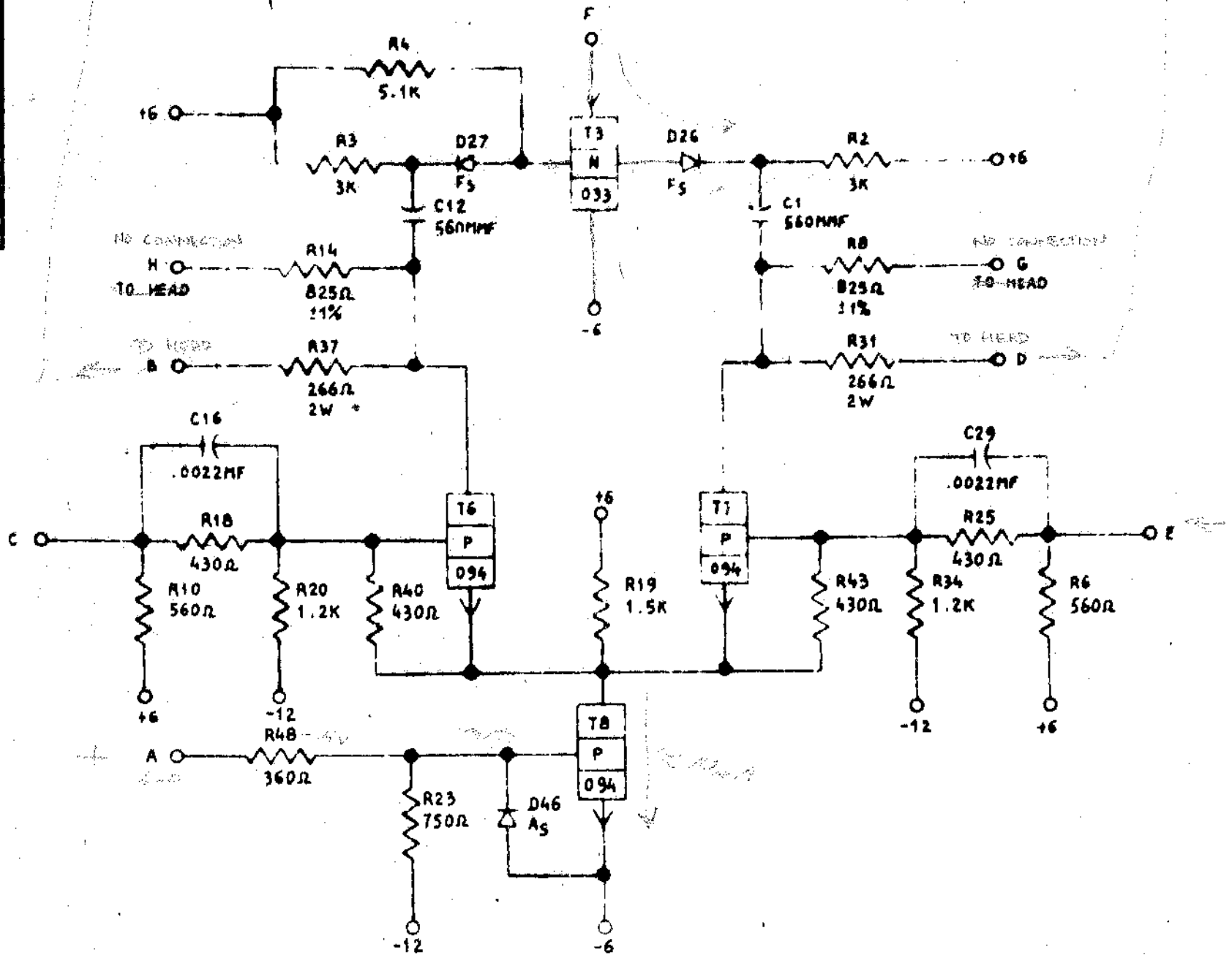
371048



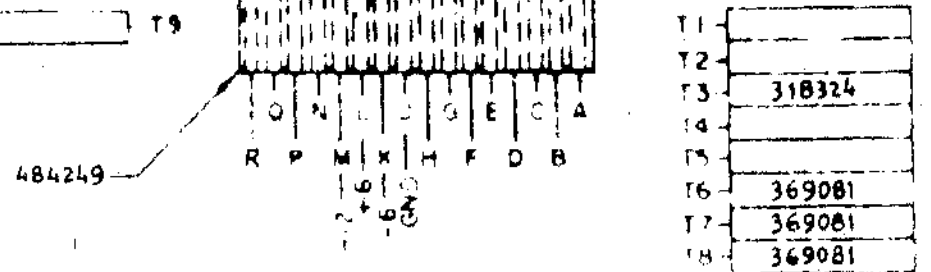
371674  
LZ--  
CODE NATURE  
2-7045

ALLOY-HEAD DRIVER AND ECHO PULSE AMPLIFIER

371674



- 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  $\square$  IN BLOCK DENOTES BARE WIRE AMPER.
  - V RESTRICTED TO 729 XI AND XII MACHINES FOR APPLICATION REASONS.
  - VI ALL 2 WATT RESISTORS ARE +1%, -2%.



COMPONENT SIDE

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		TYPE	SMS	28.12.60	JT 47995						
DESSIN		RECHER		9.2.61	EC 111235						
VERIF	BOC 4.7.61	CALQ		28.6.51	JT 48332						
APPR	BVL 10.7.61	VERIF	CLM 31.6.61								

4/91/C



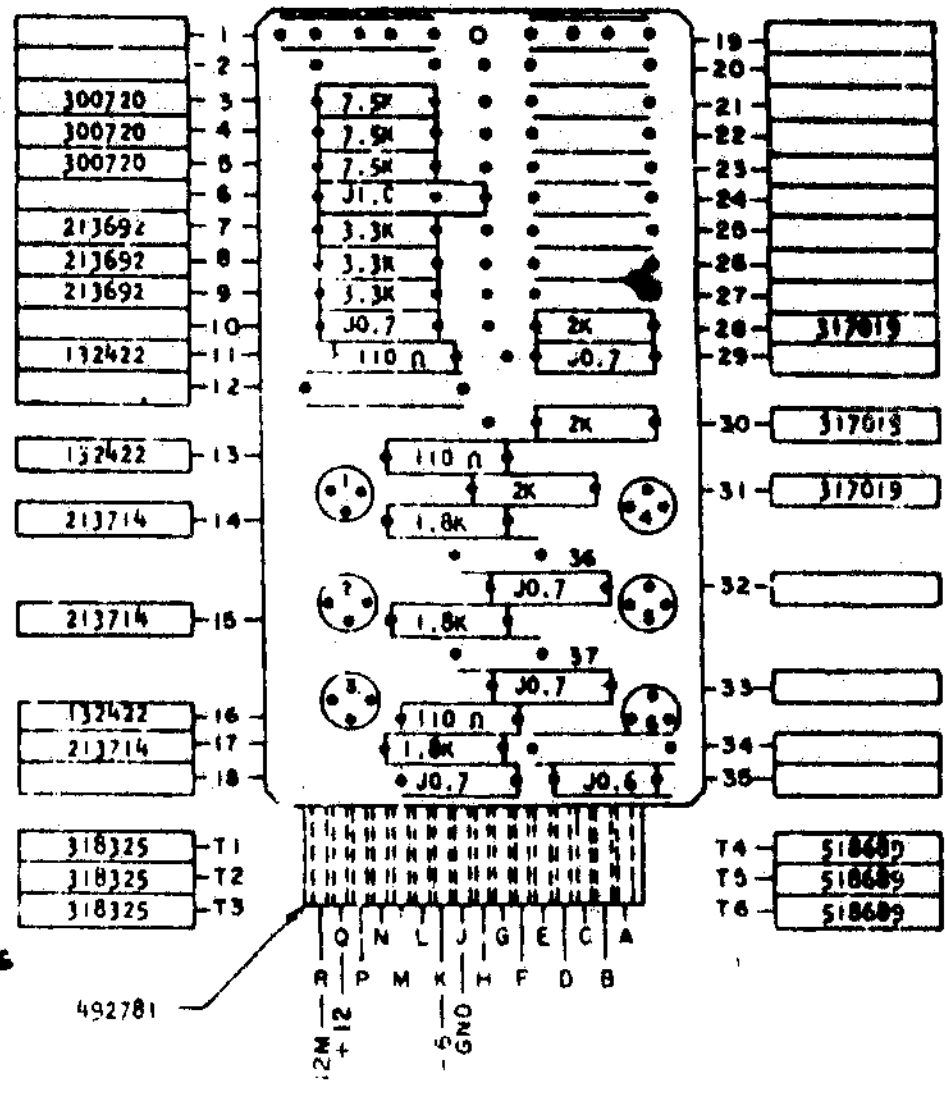
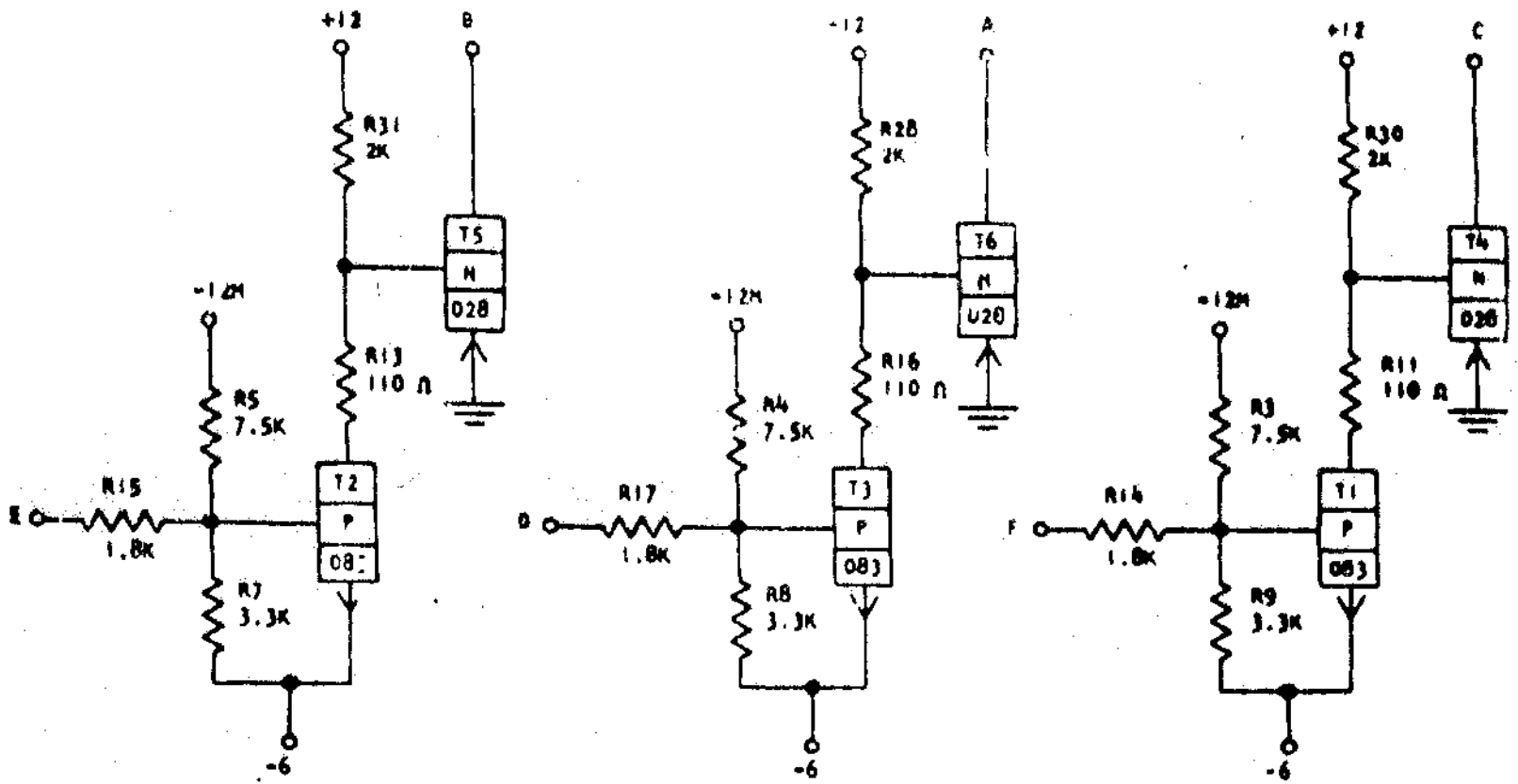
371497

MD--

371497

CTRL-DRIVERS, FUNCTIONAL COIL  
MOUNT CARD ON ONE INCH CENTERS NOTE III

CODE NATURE 2-7045



- NOTES  
 I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 371497  
 II ASSEMBLE TO ENGINEERING SPECIFICATION 2094692-2093495 AND 2093496  
 III ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED  
 IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296  
 V THE MAXIMUM HEIGHT THAT COMPONENTS MAY PROJECT ABOVE THE SURFACE OF A CARD WILL BE .405

- 083 318325 T1
- 083 318325 T2
- 083 318325 T3
- T4 518689 028
- T5 518689 028
- T6 518689 028

HOLE PATTERN  
491021

USE WITH SPECIFICATION 8010600

IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR-CTRL		5-10-59	EC 106943						
PROJ	DRIVERS FUNCTIONAL COIL		7-4-61	JT 47015						
DESIGN	28-1-62	ECHEL	29-1-62	JT 80876						
VERIF		CALQ	27-4-62	EC 112757						
APPR		VERIF	13-9-62	JT 82889						

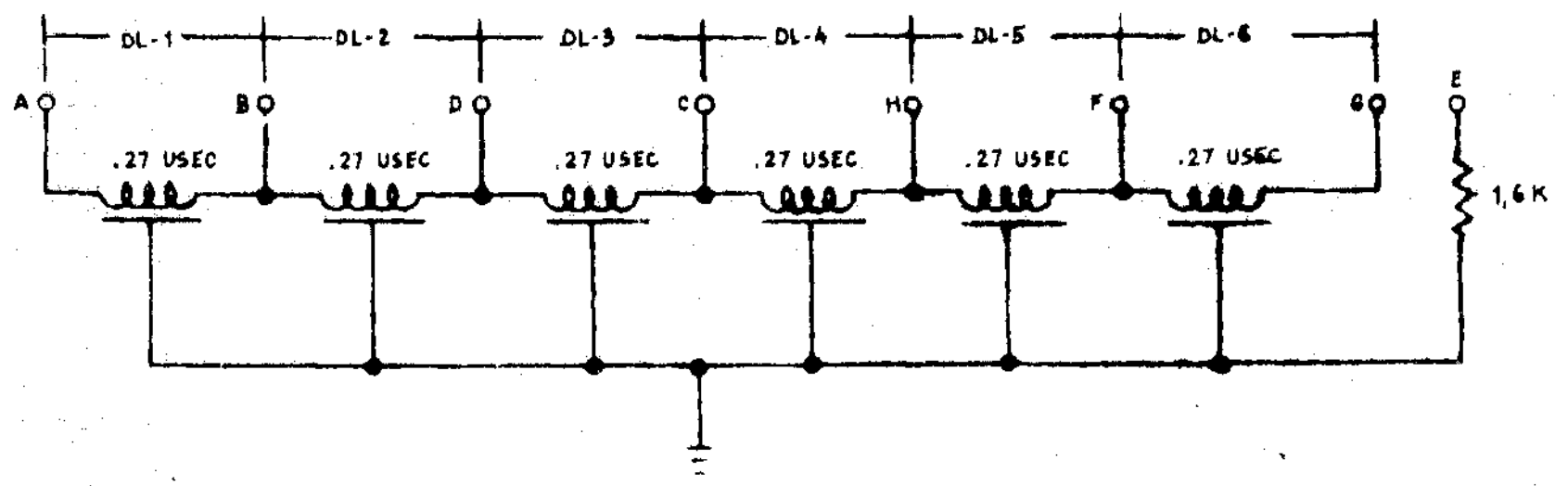
371497



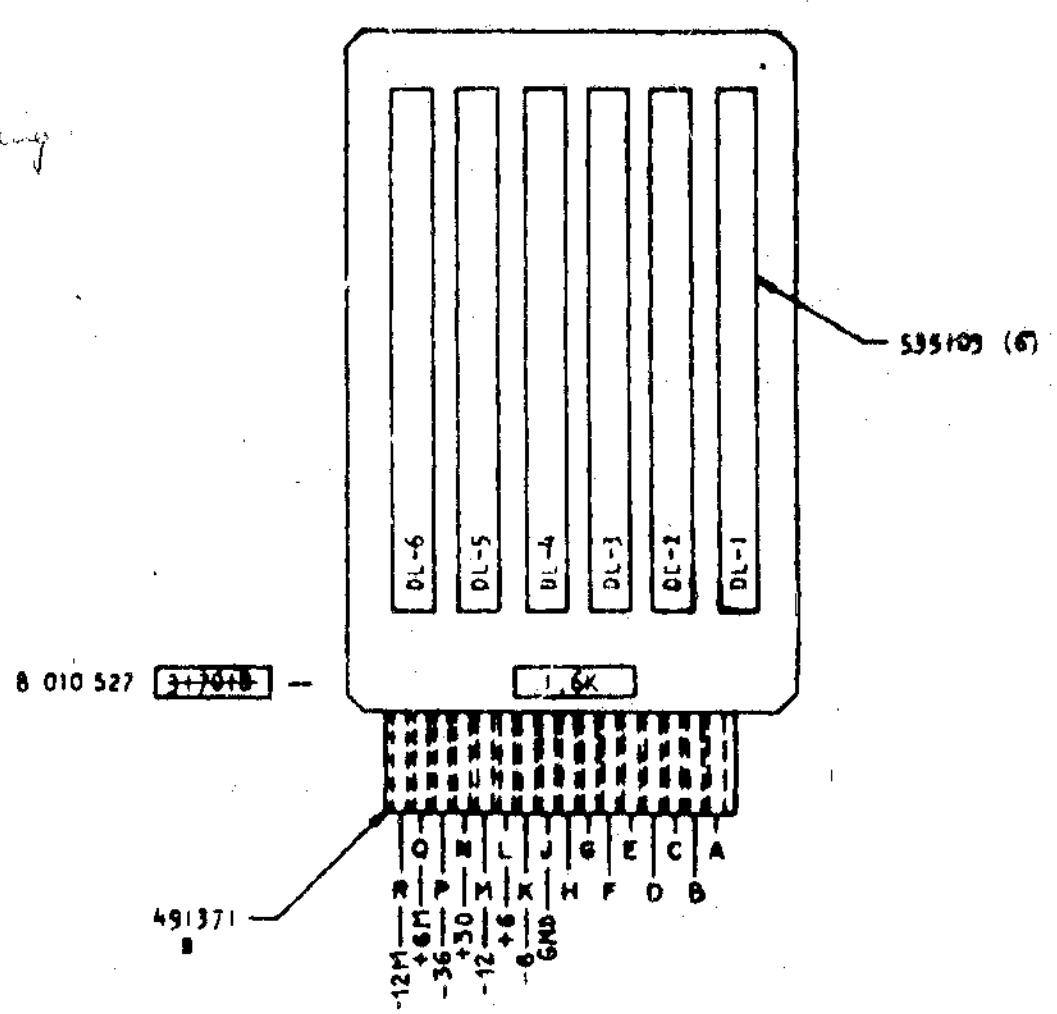


ALLOY-DELAY LINE DISTRIBUTED NUMBER 2

371749  
RP  
CODE NATURE  
2.7045



P. NO 371439  
Delay line 180 nsec tapping  
for M6.



- NOTES
- I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 891749
  - II ASSEMBLE TO ENGINEERING SPECIFICATIONS 2 084 692 - 2 093 495 AND 2 093 496
  - XI ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED

COMPONENT SIDE

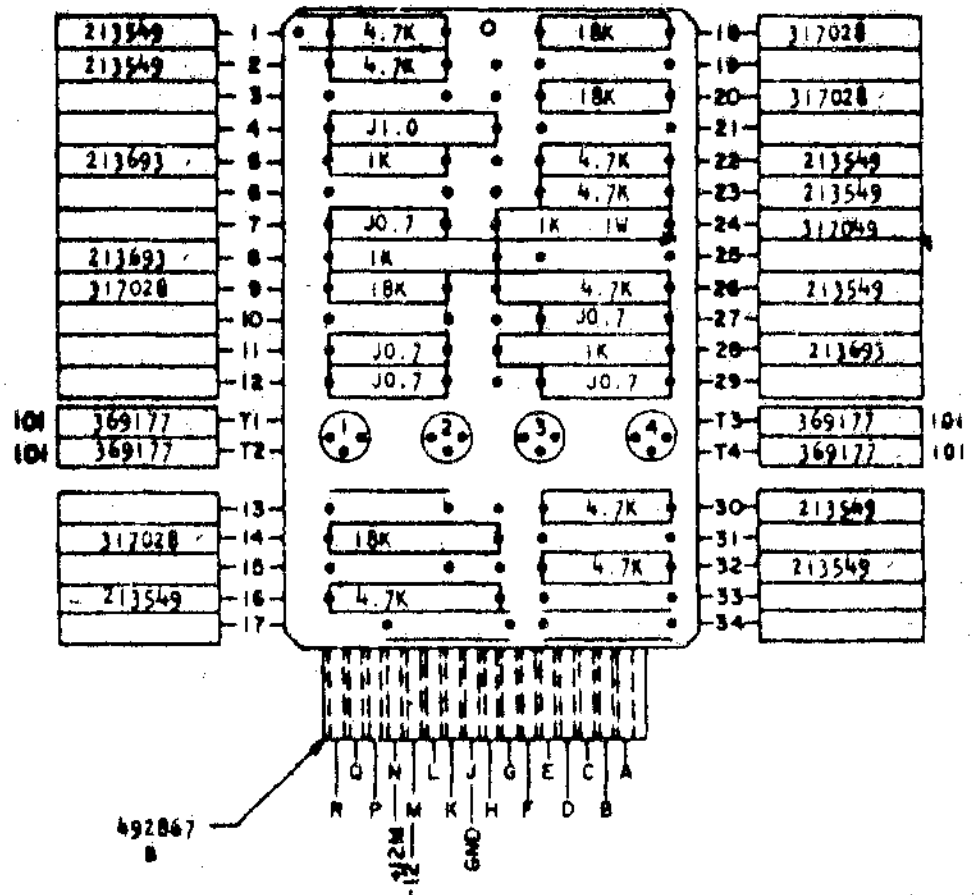
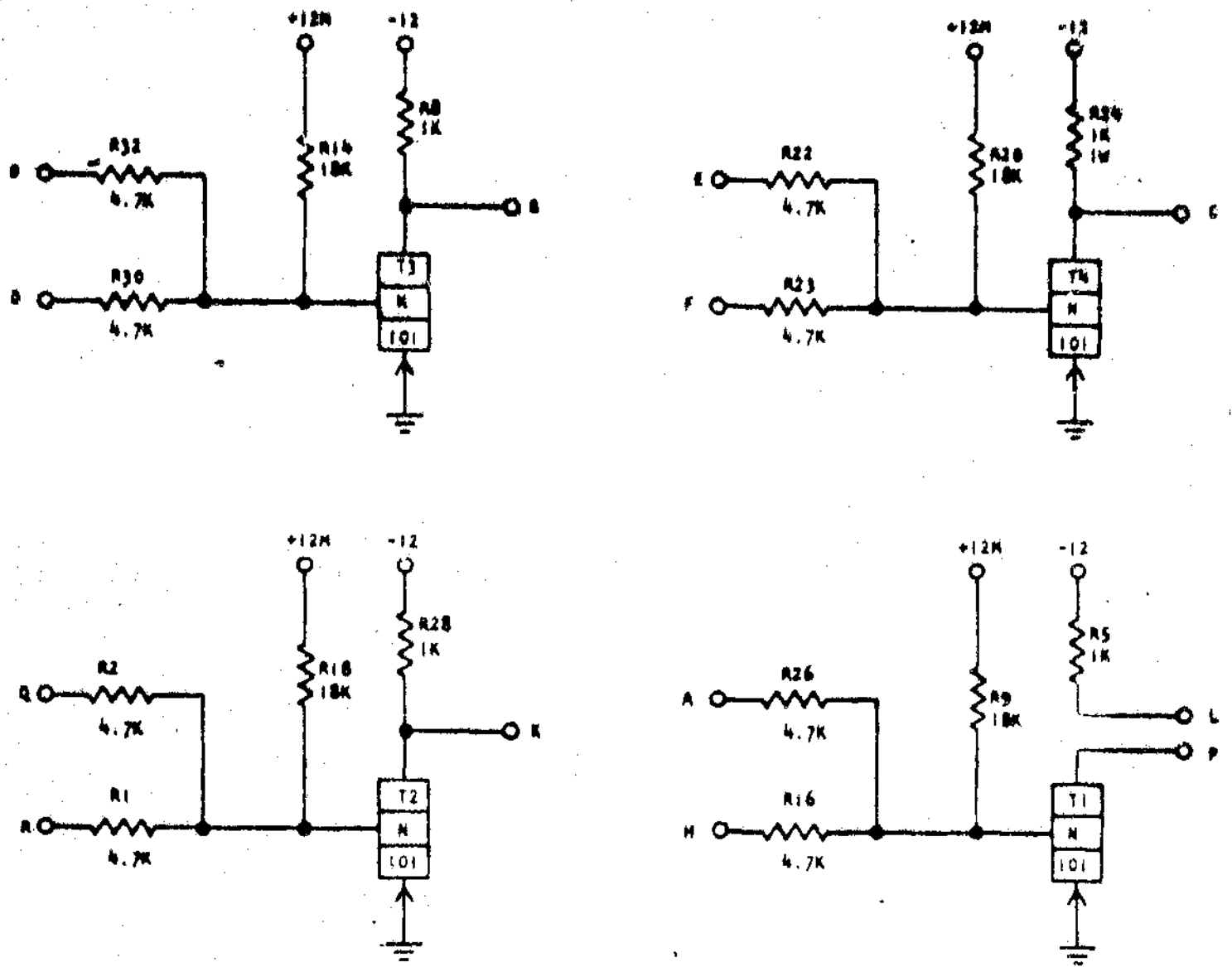
USE WITH SPECIFICATION 8 010 600

IBM				DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NO	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				
DESSIM		ECHEL		22.3.61	JT 47627				
VERIF.		CALQ	CLM 15.3.61						
APPR	B PL	30.3.61	VERIF	95	30.3.61				

SDTRL-2 WAY INVERTER NUMBER 2

370129  
TAU-

CODE  
NATURE  
2.7.045



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 20% UNLESS OTHERWISE NOTED
- IV "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296
- V

VI POSITIONS T1, T2, T3, T4, ARE TO-18 TRANSISTORS T1, T2, T3, T4, 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 8070800

IBM		DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR - SDTRL -	25.8.60	EC 109 878	25.5.62	EC 115 942				
	2 WAY INVERTER NUMBER 2	6.2.61	JT 47012	20.8.62	JT 82893				
PROJET	TYPE SMC	25.5.61	EC 112019	28.8.62	LC 114364				
DESSIN	4-9-62 ECHMEL	9.10.61	JT 48828	8 JAN. 1963	JT 82755				
VERIF	GALQ								
APPR	VERIF								



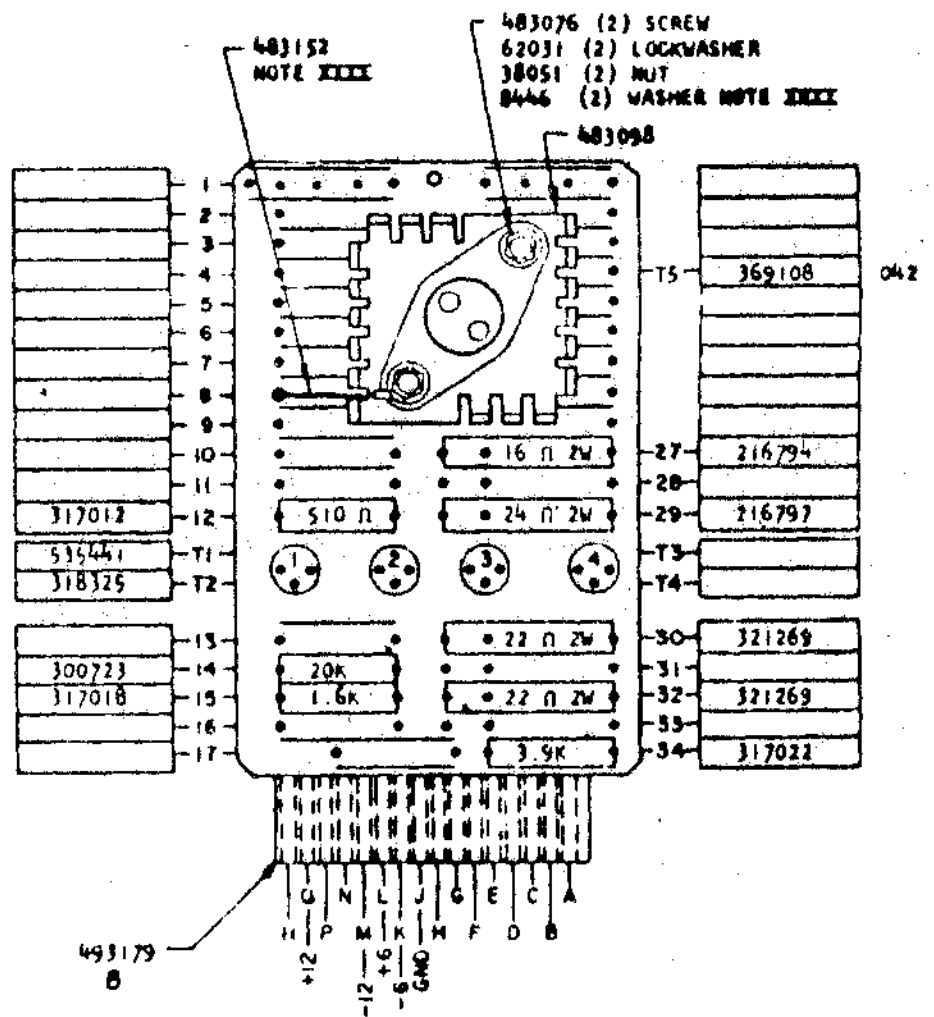
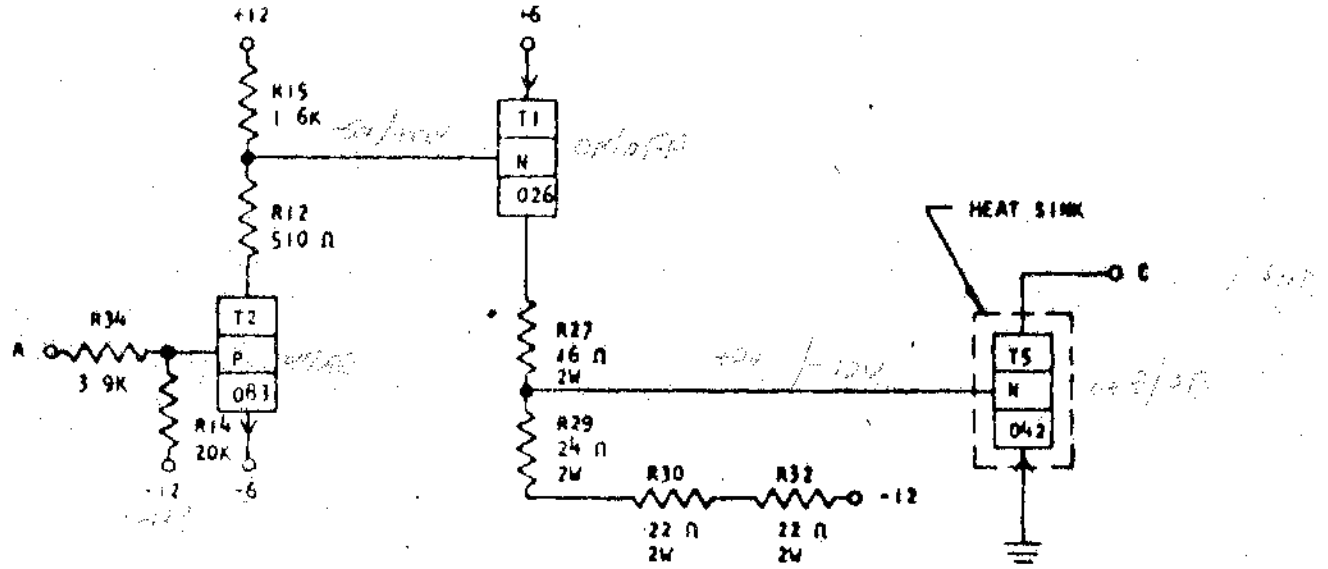
371880  
WB--

CODE  
NATURE  
2.7.045

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

371880

RESTRICTED  
NOTE XIV



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 5% UNLESS OTHERWISE NOTED
- XIII CASE IS ELECTRICALLY CONNECTED TO COLLECTOR, CONNECTION COMPLETED THROUGH JUMPER
- \* XIV TECHNICAL LABORATORY EVALUATION INCOMPLETE, ADDITIONAL USAGE TO BE AVOIDED. THIS PART SUBJECT TO WITHDRAWAL
- XV THE MAXIMUM HEIGHT THAT COMPONENTS 026 MAY PROJECT ABOVE THE SURFACE OF THE CARD WILL BE .850
- \* 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°
NOM	CARD ASM TSTR - ALLOY-DRIVER RELAY 2.5 AMP			30.8.60	EC 108999	28.3.62	JT 81808	20.2.63	EC 116120
PROJET		TYPE	SMS	7.4.61	JT 47015	22.5.62	JT 81849	13 MAI 1963	JT 83748
DESSIN	6.9.62	ECHEL		21.6.61	EC 111824	25.4.62	EC 113674		
VERIF		CALC		18.10.61	JT 48842		JT 82895		
APPR		VERIF		29.1.62	JT 80876				

371880

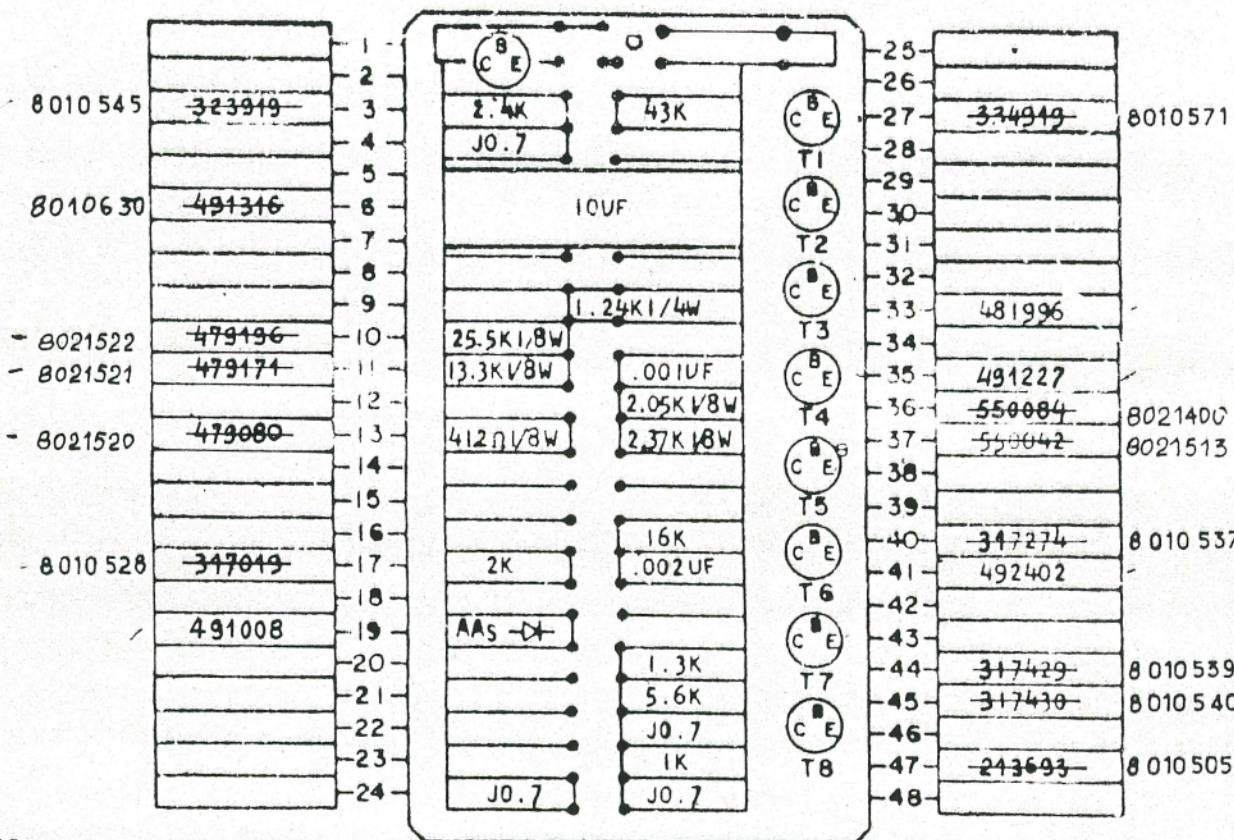
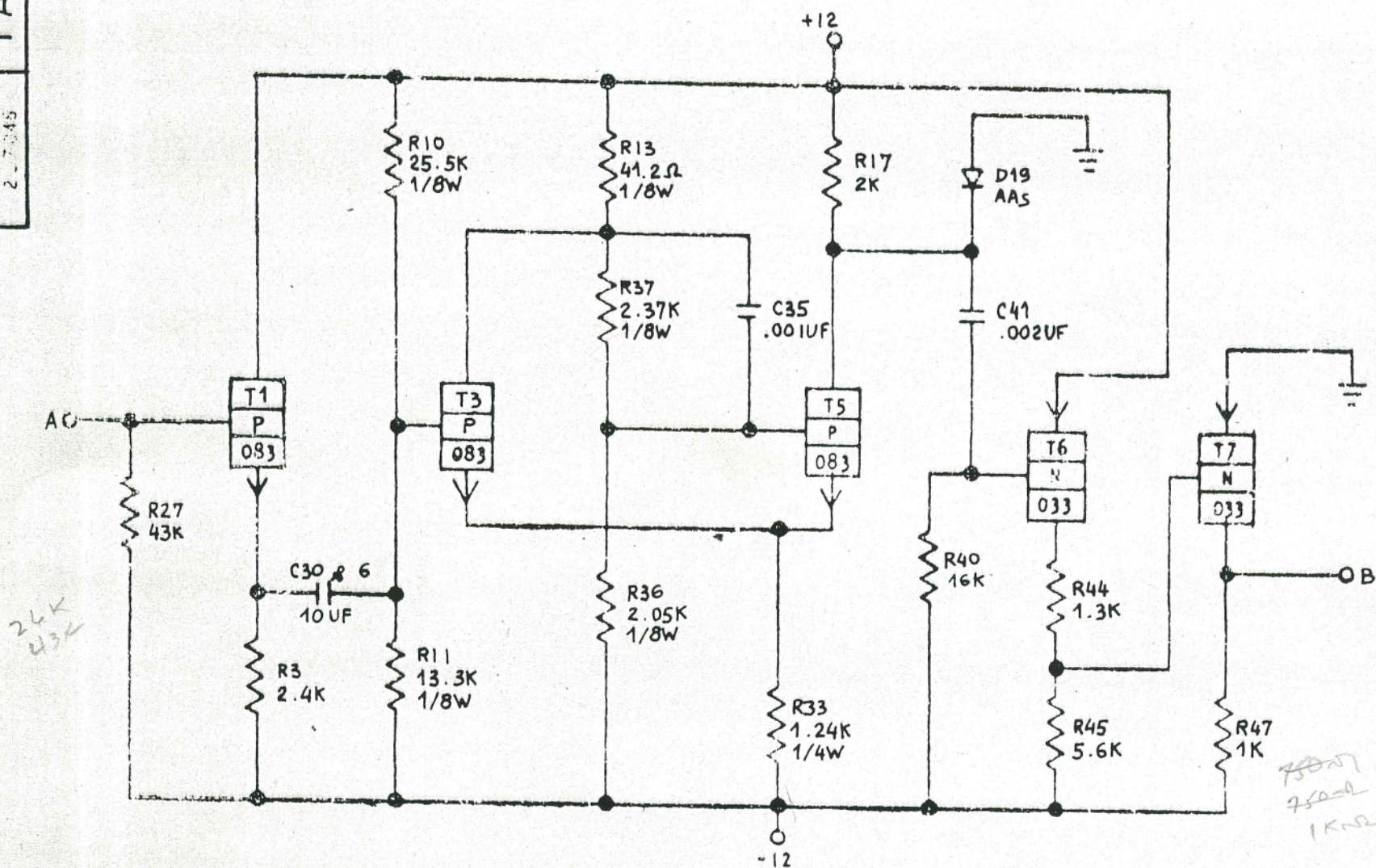


370452  
YAW-

CODE  
NATURE  
2-7-61

A.C. PHOTO FIER

370452



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 892452
- XI ASSEMBLE 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°
NGM	CARD ASM TSTR. A.C. PHOTO AMPLIFIER			31.1.61	EC 111068				
PROJET		TYPE	SMS	9.6.61	JT47019				
DESSIN	DJe 6-6.61	ECHÉL		20-11-61	JT80851				
VERIF.		CALQ	R.L.G. 5.6.61	29.1.62	JT80876				
ADDR		IVERIF	CLM 1.7.61						



370668

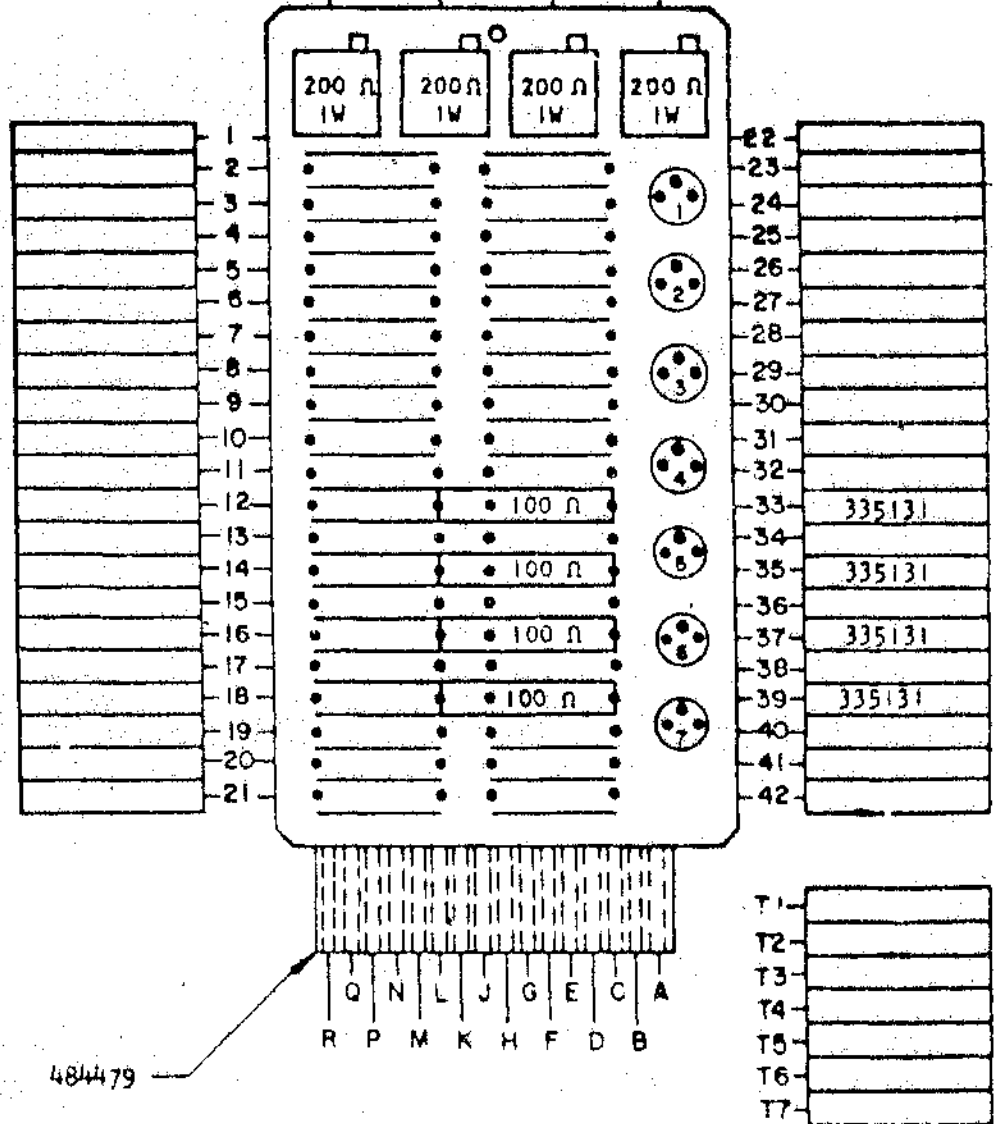
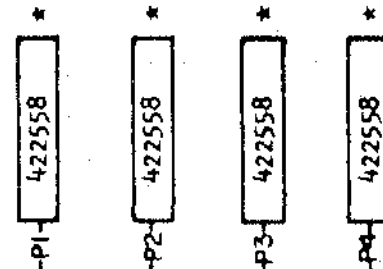
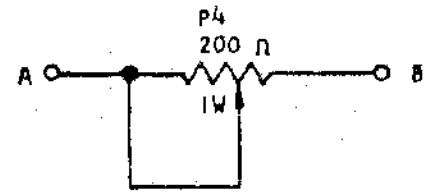
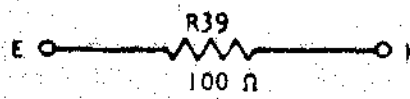
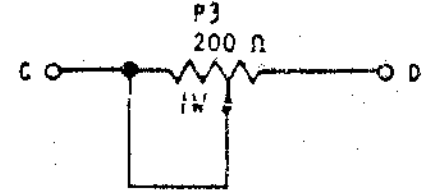
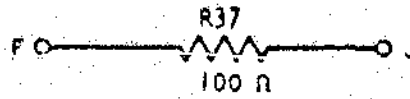
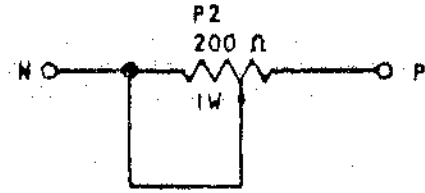
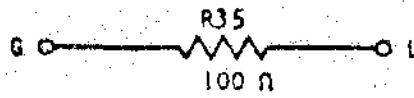
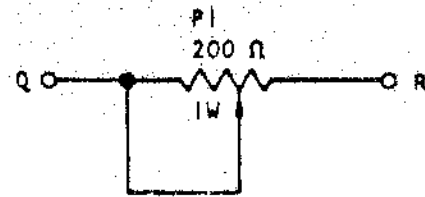
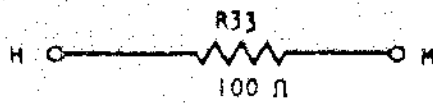
YEU-

CODE  
NATURE

2-7045

WRITE CURRENT BALANCE

370668



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°	DATE	CHANG N°
NOM	CARD ASM TSTR			28.8.61	EC112416						
WRITE CURRENT BALANCE				18.10.61	JT47023						
PROJET		TYPE	SMS								
DESSIN	DJa	27.9.61	ECNEL								
VERIF.			CALQ RDM	29.9.61							
APPR	Poc	11-10-61	VERIF	CLM	7-10-61						

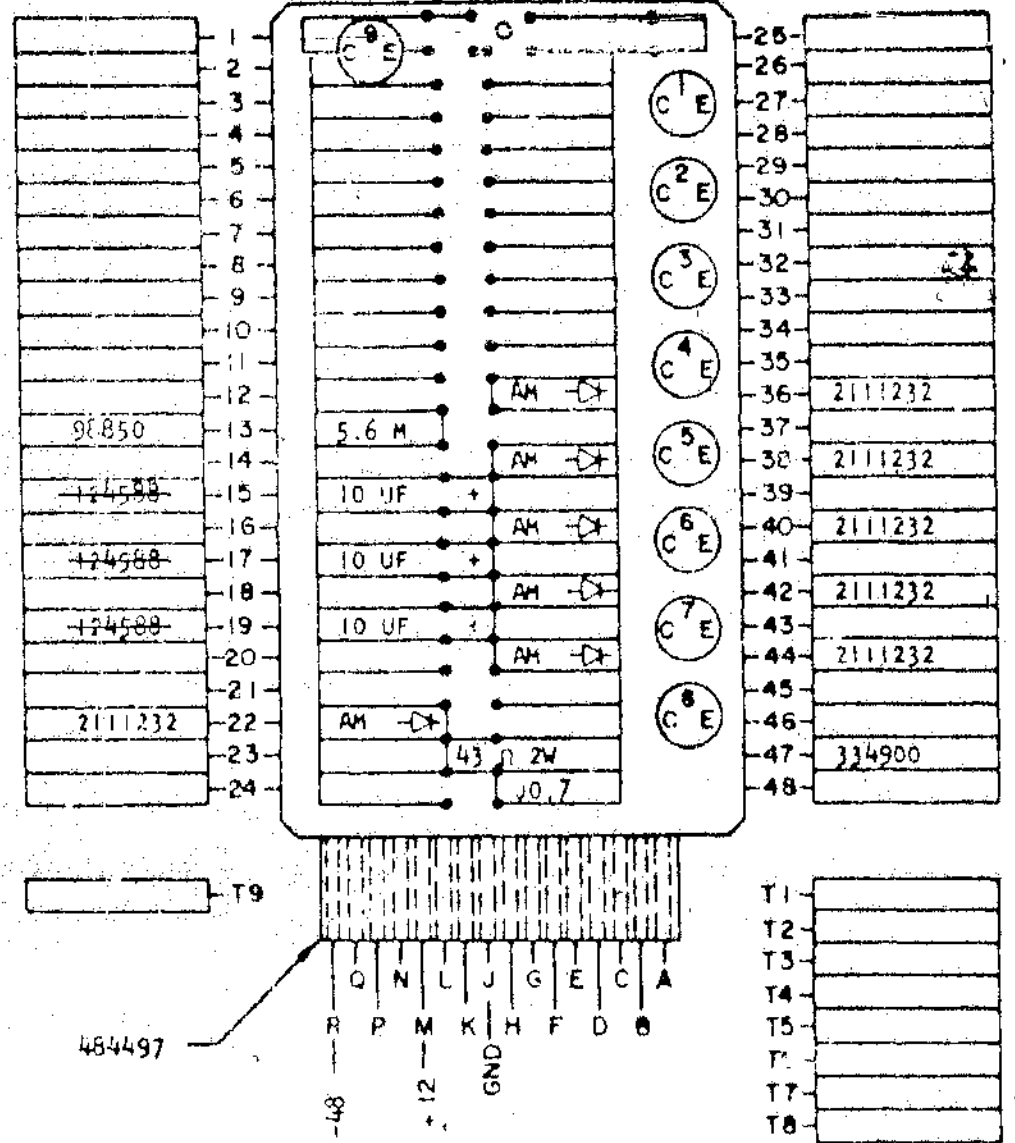
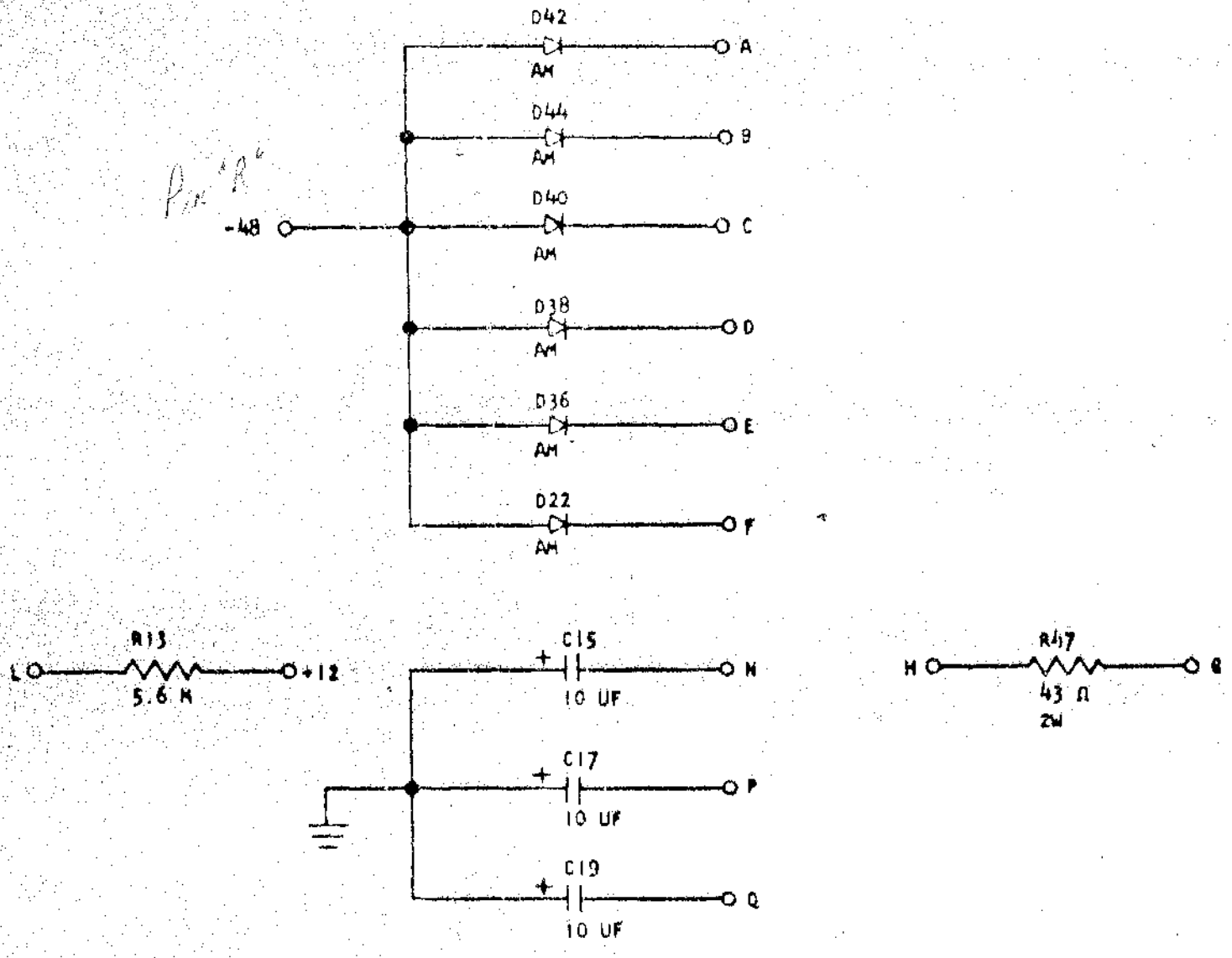
370668



RESISTOR AND SUPPRESSOR

370701  
 CODE NATURE  
 YHM-  
 2-7045

*Pin 12*



- 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. "J" IN BLOCK DENOTES BARE WIRE JUMPER 491296

HOLE PATTERN  
 493457

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						
PROJ	DJA		27.6.61	JT47023						
DESIGN	DJA		27.6.61							
TYPE	CALQ		NOA40	27.8.61						
VERIF	DJA		27.10.61							

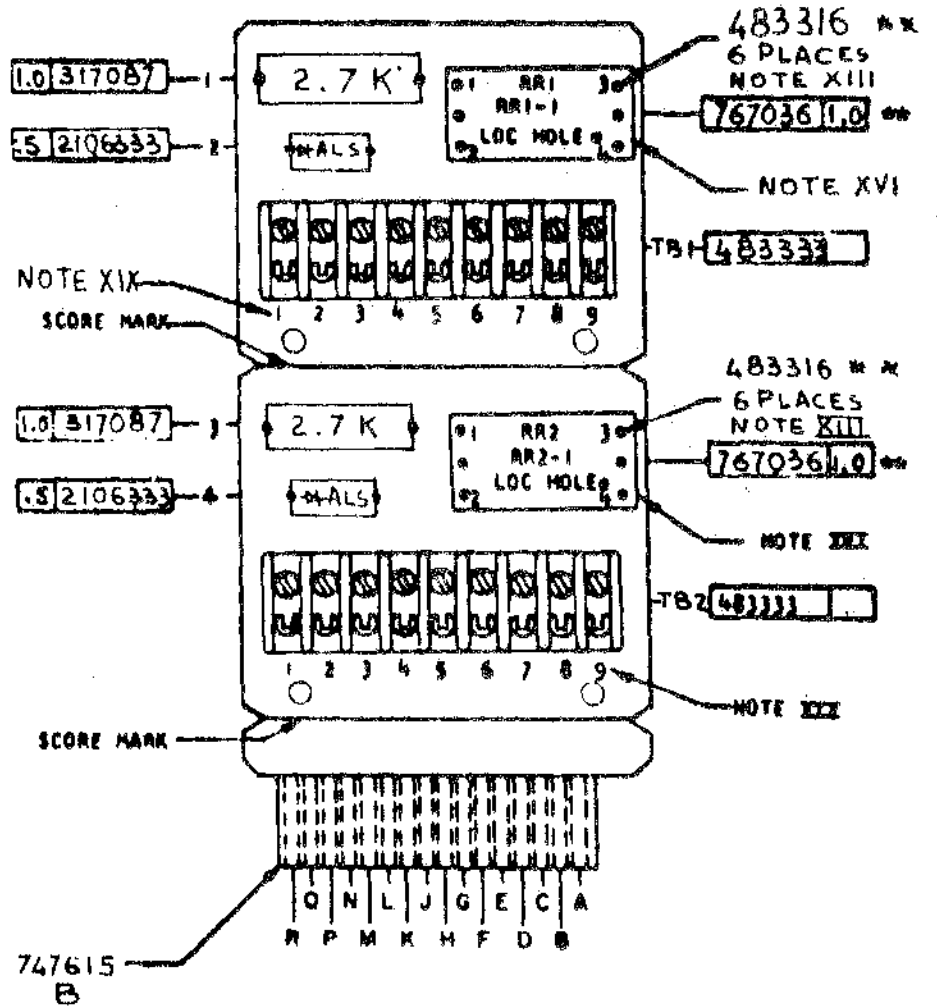
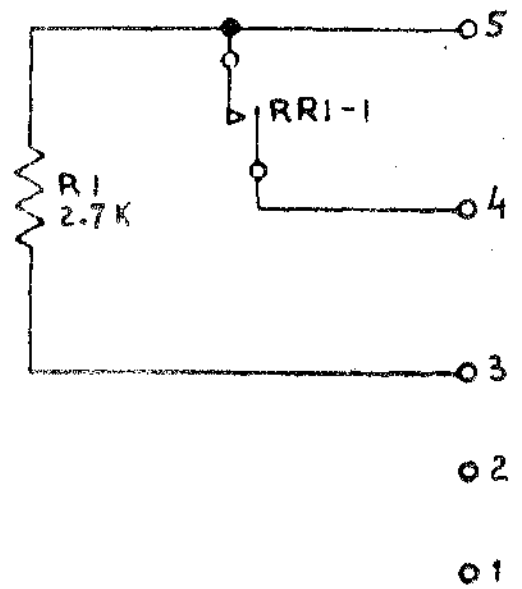
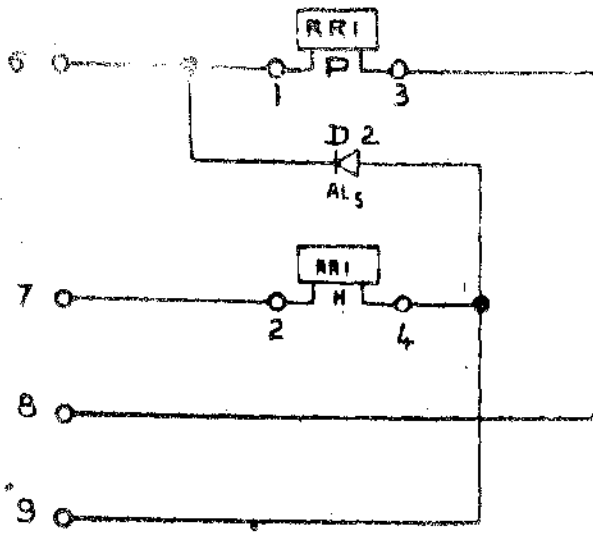
372688

372688

METER CARD

RESTRICTED  
NOTE XVII

CODE  
NATURE  
2.7.045



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION 870688
- XX ASSEMBLE TO ENGINEERING SPECIFICATION 892058, 2084692 - 2093495 and 2093496
- XXI ALL RESISTORS ARE 2 WATT AND 5% UNLESS OTHERWISE NOTED
- XXII SLOT IN LUG 483316 MUST BE PARALLEL TO Y-Y AXIS
- XXIII THIS CARD CONTAINS TWO ASSEMBLIES OF THE CIRCUIT SHOWN
- XXIV TAB AREA IS REQUIRED AT ASSEMBLY, FOR MANUFACTURING PURPOSES ONLY, ASSEMBLY IS TO BE BROKEN AT SCORE-MARKS PRIOR TO STOCKING
- XXV DO NOT SUBJECT REED ASSEMBLY TO LIQUIDS
- XXVI TECHNICAL LABORATORY EVALUATION INCOMPLETE. ADDITIONAL USAGE TO BE AVOIDED. THIS PART SUBJECT TO WITHDRAWAL.
- XXVII STANDARD TRANSISTOR EMBOSS, CENTERED ON GRID CO-ORDINATES 0737, 0726, 0763, 0774, 4526, 4537, 4563, AND 4574.
- XXVIII NUMBERS TO BE MARKED PERMANENTLY AND LEGIBLY, AS SHOWN IN COMPONENT VIEW TO IDENTIFY TERMINAL POSITIONS. NUMBERS TO BE NO LESS THAN .094 HIGH.

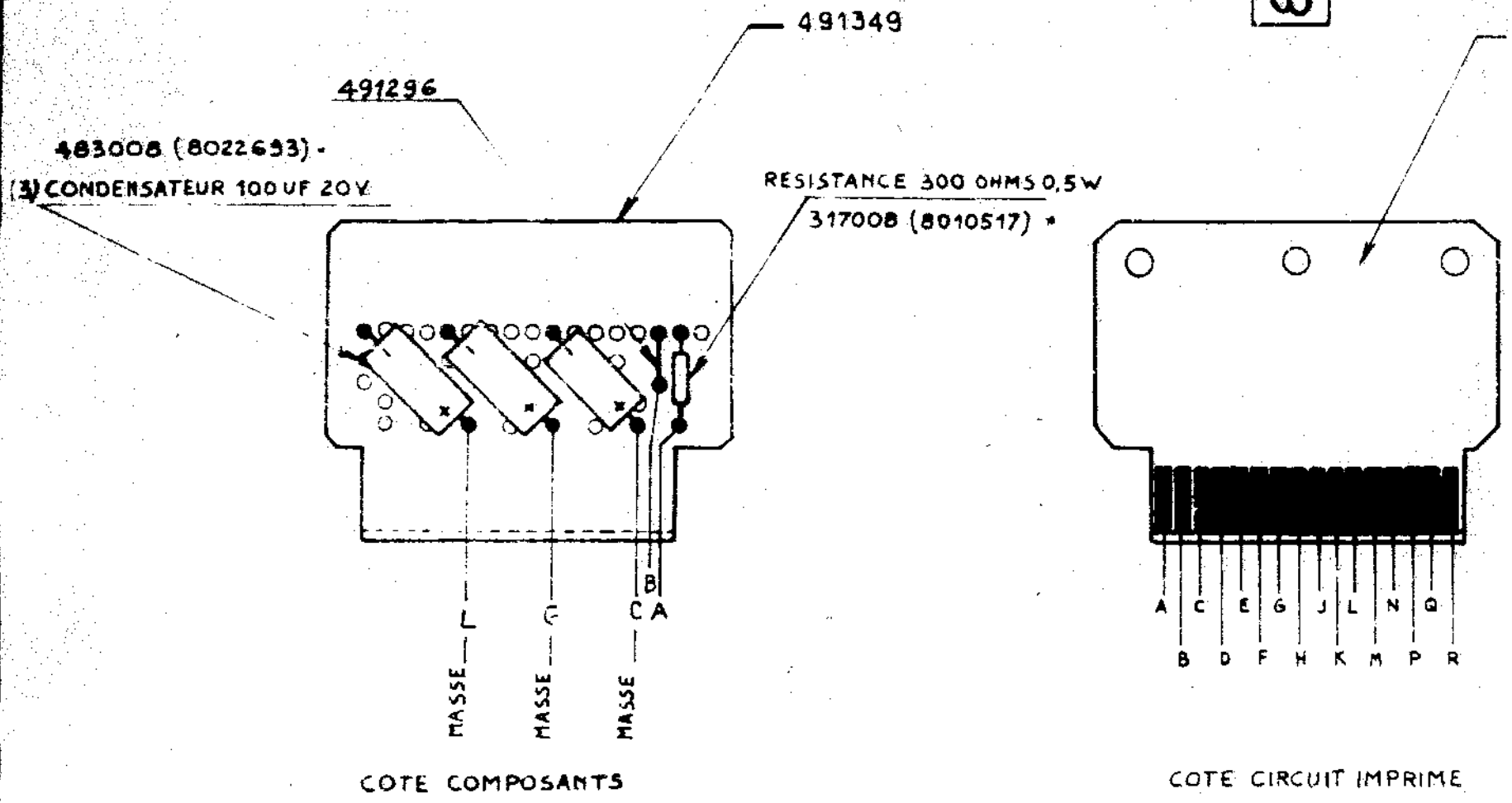
USE WITH SPECIFICATION 8010600

IBM			DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°	DATE	CHANG N°
NOM	CARD ASM TSTR		20.9.63	EC 118931						
PROJET		TYPE	13.12.63	JT 84658						
DESSIN	MB	4.12.63								
VERIF.		GALQ.								
APPR.		VERIF.								

372688

CODE NATURE	APPROBATION TECHNIQUE			SYMB	ATE	CHANG N°	APP TECH	SYMB	DATE	APP TECH	APP TECH
27045	ELEC				13462	JT 80638					
PREMIERE UTILISATION	NOTE	MÉTAL									
		PLASTIQUE									
		FINITION									
<b>8016532</b>											

**8016532**



NOTES

X MARQUER LE N° DE LA PIECE ET LE N° DE JT

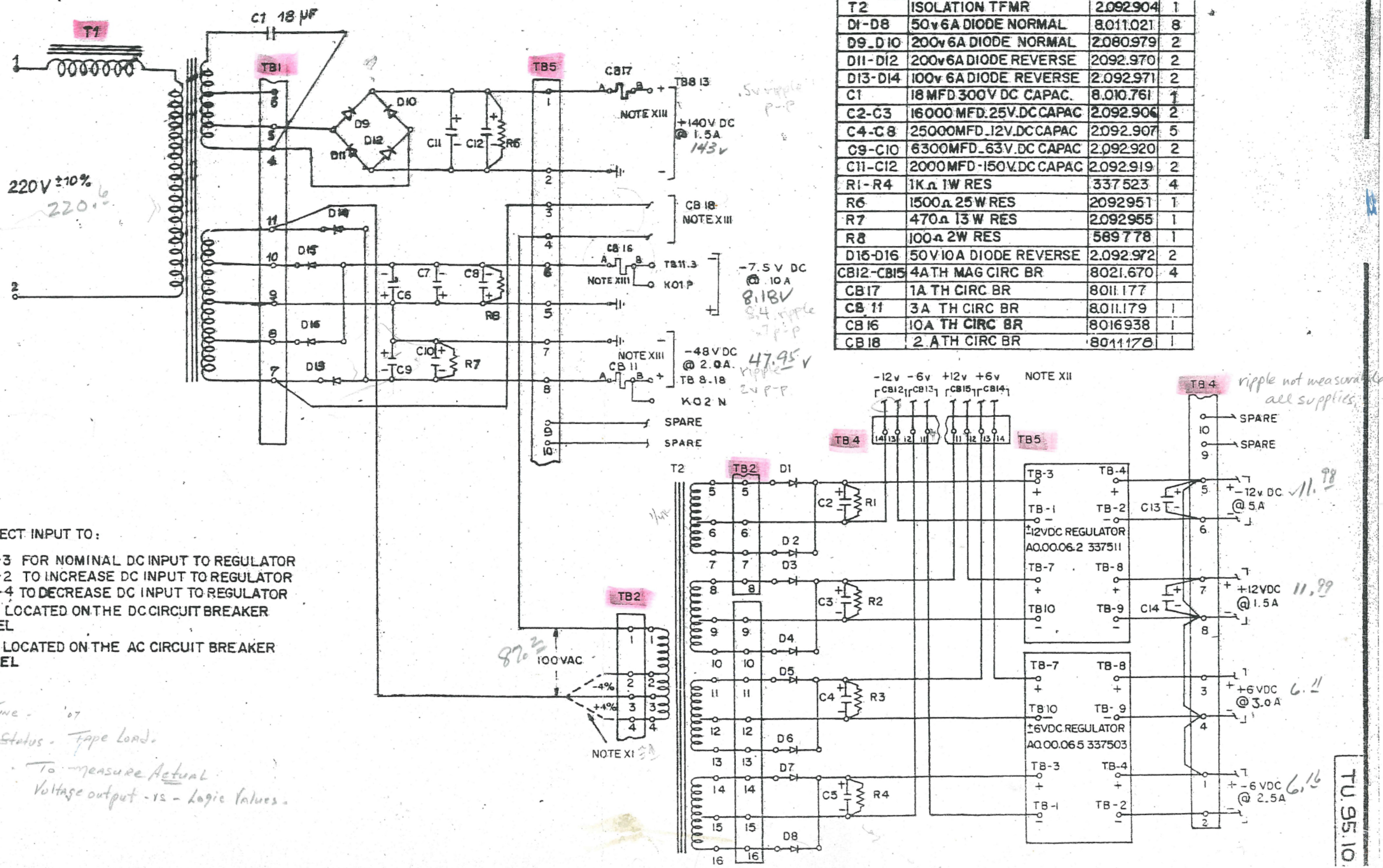
XI FABRIQUER CONFORMEMENT AUX NOTICES TECHNIQUES 2084692, 2093495 ET 2093496

SPEC MATIÈRE	N°	TOLERANCES GENERALES		<b>IBM</b>			
PROFCEM		DIMENSIONS ±		ALIGNÉ A	NOTE I	NOV	CARTE INTEGRATEUR
DURETE		ANGLES ±		PLAN A	NOTE III	PROJET	TYPE SMS
TRAIT. DE SURFACE		ARETES ET ANGLES	EXTER MAX	PARALLÈLE A	NOTE IV	DESSIN	DJe 9.4.62 ECHELLE 1/1
<b>8016532</b>				DROIT A	NOTE V	VERIF	CA. 2



2.092.963

IBM	SYSTEMS DIAGRAM	TU.95.10.1	DATE	2.15.62	CHANG. NO.	250259	DATE		CHANG. NO.	
PROJECT	TYPE	729A II N	DATE	9.4.63	CHANG. NO.	82964	DATE		CHANG. NO.	
DESIGN	FORMS		DATE		CHANG. NO.		DATE		CHANG. NO.	
VERIFY	CALC.	6.62	DATE		CHANG. NO.		DATE		CHANG. NO.	
APPV.	VERIF.	2.1.20.62	DATE		CHANG. NO.		DATE		CHANG. NO.	



COMPONENT CHART			
SYMBOL	DESCRIPTION	PART NO	QTY
C13_14	300MFD_15 VDC CAPAC.	337506	2
T1	FERRO-REGULATOR	2.092.917	1
T2	ISOLATION TFMR	2.092.904	1
D1-D8	50v 6A DIODE NORMAL	8.011.021	8
D9-D10	200v 6A DIODE NORMAL	2.080.979	2
D11-D12	200v 6A DIODE REVERSE	2.092.970	2
D13-D14	100v 6A DIODE REVERSE	2.092.971	2
C1	18 MFD 300V DC CAPAC.	8.010.761	1
C2-C3	16000 MFD_25V.DC CAPAC	2.092.906	2
C4-C8	25000MFD_12V.DC CAPAC	2.092.907	5
C9-C10	6300MFD_63V.DC CAPAC	2.092.920	2
C11-C12	2000MFD_150V.DC CAPAC	2.092.919	2
R1-R4	1K $\Omega$ 1W RES	337.523	4
R6	1500 $\Omega$ 25W RES	2.092.951	1
R7	470 $\Omega$ 13W RES	2.092.955	1
R8	100 $\Omega$ 2W RES	589.778	1
D15-D16	50V 10A DIODE REVERSE	2.092.972	2
CB12-CB15	4ATH MAG CIRC BR	8.021.670	4
CB17	1A TH CIRC BR	8.011.177	
CB 11	3A TH CIRC BR	8.011.179	1
CB 16	10A TH CIRC BR	8.016.938	1
CB 18	2.ATH CIRC BR	8.011.176	1

NOTES

- XI CONNECT INPUT TO:  
 TB2-3 FOR NOMINAL DC INPUT TO REGULATOR  
 TB2-2 TO INCREASE DC INPUT TO REGULATOR  
 TB2-4 TO DECREASE DC INPUT TO REGULATOR
- XII ARE LOCATED ON THE DC CIRCUIT BREAKER PANEL
- XIII ARE LOCATED ON THE AC CIRCUIT BREAKER PANEL

Date - June - '67  
 Machine Status - Tape Load.  
 Objective - To measure Actual Voltage output - vs - Logic Values.

TU.95.10.1

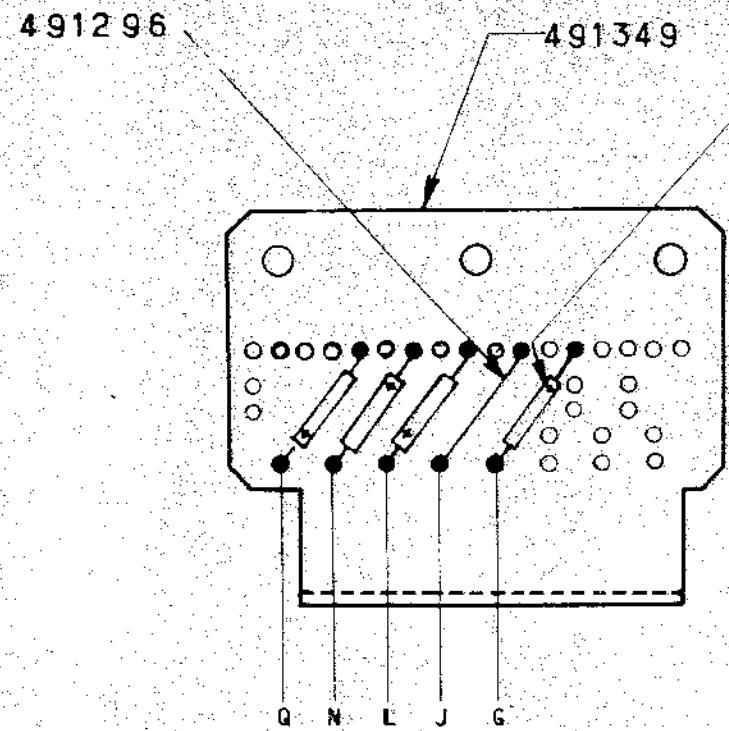
TU.95.10



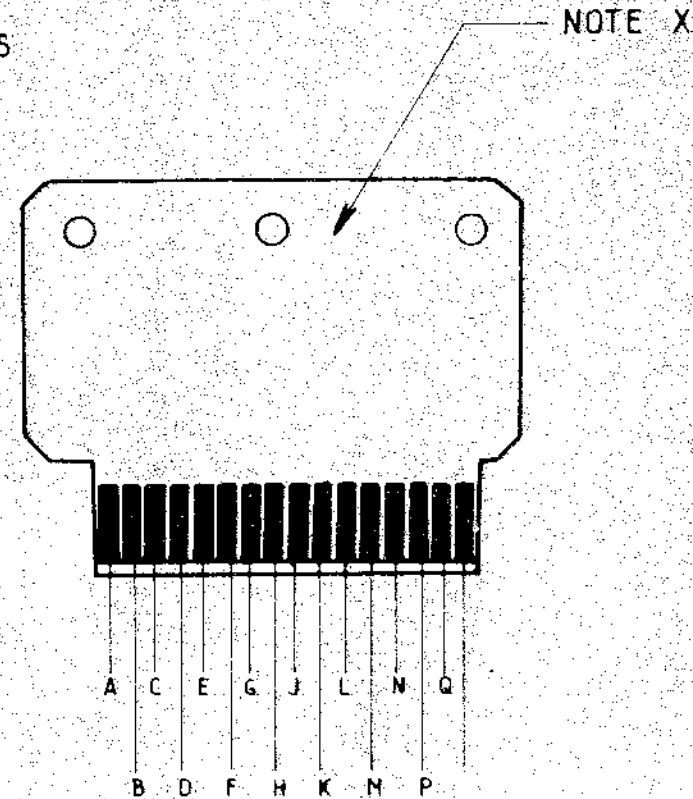




CODE NATURE		APPROBATION TECHNIQUE		556981	SYMB	DATE	CHANG N°	APPELÉ PAR	SYMP	LATE	CHANG N°	APPELÉ PAR	556981	
2-7045		ELEC			4-10-61	EC 249780								
PREMIERE UTILISATION	QTE	MÉTAL			22-12-61	JT 80891								
556893	1	PLASTIQUE			18-12-61	EC 249585								
		FINITION			22-2-62	JT 80883								



COMPONENT SIDE



PRINTED SIDE

NOTES

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

SPÉC MATIÈRE N°		TOLERANCES GÉNÉRALES		ALIGNÉ A		NOTE I		IBM			
PROF CEM		DIMENSIONS ±						NOTE II		NOM	ASSEMBLAGE CARTE
DURETÉ		ANGLES ±		PLAN A		NOTE III		PROJET		TYPE	7 3 3 0
TRAIT. DE SURFACE		ARETES EXTÉR MAX		PARALLÈLE A		NOTE IV		DESSIN	10240	15-12-61	ECHELLE 1/1
1869SS	B			DROIT A		NOTE V		VÉRIF	APC	15-12-61	CALQ