

3420 MODELS 004, 006, 008
P/N 1848069

CARD LOCATION LISTING
BOARD
01A-A1

PAGE AA001
P/N 1845800/4452346
4450286/4469382

COMMENT***

LOCATION	TYPE	PART NO.	PAGES	COMMENT***
01A-A1A2	CONN		WB021, WB022	
01A-A1A3	CONN		FT910, WB021, WB022	
01A-A1A4	CONN		WB021	
01A-A1A5	CONN		FT910, WB021, WB022	
01A-A1B2	6775 6775 6775	8216710 8218286 8565079	FT451 THROUGH FT455 ALTERNATE PART NO. FOR ECA 122 EC 847863	
01A-A1C2	6776 6776	8218294 8565083	FT261 THROUGH FT266 FOR ECA 121 EC 847234B OR ECA 129 EC 467606 (BOARD WIRING REQUIRED)	
01A-A1D1	CONN		WB021	
01A-A1D2	0763 0763	8216716 8565075	FT231 ALTERNATE PART NO. (NOTE 1)	
01A-A1D4	6778 6778	8216709 8565068	FT281 THROUGH FT285 FOR ECA 113 EC 846437 (BOARD WIRING REQUIRED)	
01A-A1E1	CONN		WB021	
01A-A1E2	Z024 Z024 Z024	8237083 8237084 8250221	FT341 THROUGH FT345 FOR EC 735814 FOR ECA 097 EC 443935	
01A-A1F1	CONN		WB021	
01A-A1F2	Z023 Z023 Z023	8237074 8250992 8250220	FT331 THROUGH FT334 FOR EC 443878 FOR ECA 097 EC 443935	
01A-A1G1	CONN		WB021	
01A-A1G2	Z022 Z022 Z022 Z022	8237063 8237064 8237065 8565071	FT321 THROUGH FT324 FOR EC 735816 FOR ECA 073 EC 735817 (BOARD WIRING REQUIRED) FOR ECA 116 EC 847216 (BOARD WIRING REQUIRED)	
01A-A1G6	Z021	8237053	FT311 THROUGH FT315	
01A-A1H1	CONN		FT910, WB011	
01A-A1H2	Z020	8237044	FT301 THROUGH FT304	
01A-A1J1	CONN		FT910, WB011	
01A-A1J2	6783 6783	8216711 8218291	FT131 THROUGH FT135 FOR ECA 021 EC 734068	
01A-A1K1	CONN		FT910, WB011	
01A-A1K2	2298 2298	8236280 8237090	FT181 THROUGH FT184 FOR ECA 065 EC 735813 (BOARD WIRING REQUIRED)	
01A-A1K6	6787	8215354	FT101 THROUGH FT102	
01A-A1L1	CONN		FT910, WB012	
01A-A1L2	2299	8237101	FT141 THROUGH FT148	
01A-A1L6	E761	5804761	FT910	
01A-A1M1	CONN		FT910, WB012	
01A-A1M2	6777 6777	8218287 8565057	FT111 THROUGH FT116 FOR ECA 110 EC 846163	
01A-A1N1	CONN		FT910	

DATE E.C.
SEE E.C. HISTORY
080979 846163
091979 846163B
111579 846180
012380 846437
052780 846163D
101780 847216
112381 847861
112482 847234B
041583 467606

3420 MODELS 004, 006, 008
P/N 1848069

CARD LOCATION LISTING
BOARD
01A-A1

PAGE AA001
P/N 1845800/4452346/
4450286/4469382

LOCATION	TYPE	PART NO.	PAGES	COMMENT****
01A-A1N2	CONN		FT910, WK001	
01A-A1N3	CONN		FT910, WB011, WB012	
01A-A1N4	CONN		FT910, WK001	
01A-A1N5	CONN		FT910, WB021, WK001	
01A-A1N7	CONN		WB022, WK001	

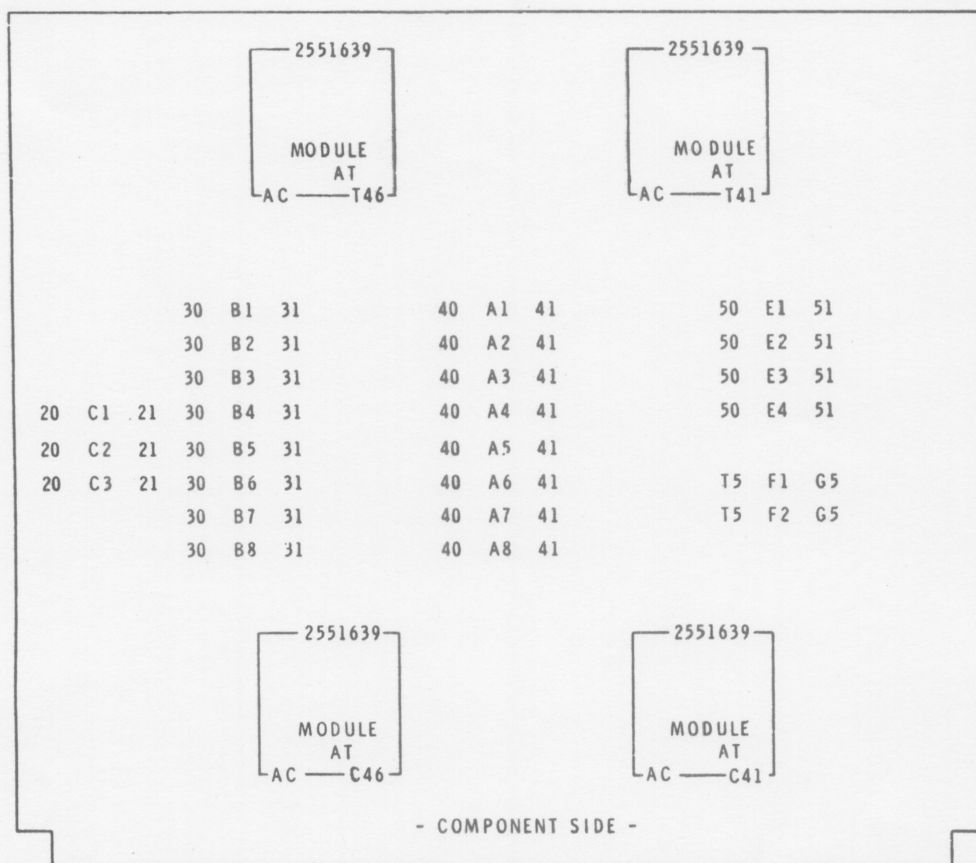
NOTE: WHEN REPLACING THE BOARD ORDER THE SAME P/N AND EC LEVEL OF THE BOARD BEING REPLACED.

NOTE 1: NOT TO BE REPLACED BY P/N 8216716. P/N 8565075 IS REQUIRED FOR FCC COMPLIANCE ON MACHINES WITH EC 847266 INSTALLED.

BOARD P/N	EC LEVEL	CARDS REQUIRED
4452346	846437B	C2 CARD P/N 8218294
		D4 CARD P/N 8565068
		G2 CARD P/N 8237065
		K2 CARD P/N 8237090
4450286	847216	C2 CARD P/N 8218294
		D4 CARD P/N 8565068
		G2 CARD P/N 8565071
		K2 CARD P/N 8237090
4469382	467606	C2 CARD P/N 8565083
		D4 CARD P/N 8565068
		G2 CARD P/N 8565071
		K2 CARD P/N 8237090

DATE E.C.
SEE E.C. HISTORY
080979 846163
091979 846163B
111579 846180
012380 846437
052780 846163D
101780 847216
112381 847861
112482 847234B
15APR83 467606

MACH 3420-RP
PIN PLUGGING INFORMATION FOR 2299 CARD (01-A1L2)
VER 000



TO PLUG SERIAL NUMBER: PLUG 31 AND 41 TO THE A AND B PINS TO EQUAL THE LAST FOUR DIGITS OF THE SERIAL NUMBER. USING TABLE A.

EXAMPLE: FOR SERIAL NUMBER 81,060 LAST FOUR DIGITS ARE 1060.
PLUG A3 AND A6 TO 41 AND B3 TO 31. PLUG ALL REMAINING PINS
TO 30 AND 40. ($4+32+1024=1060$)

TABLE A

	B	A	
1	256	1	1
2	512	2	2
3	1024	4	3
4	2048	8	4
5	4096	16	5
6	8192	32	6
7	16384	64	7
8	32768	128	8

TO PLUG FEATURES

BASIC (6250 ONLY) F1 AND F2 TO T5
6250/1600 F2 TO T5 F1 TO G5

TABLE B

ORIGINAL MODEL	PIN C1	PIN C2	PIN C3
1	NA	NA	NA
2	NA	NA	NA
3	21	20	21
4	20	20	21
5	21	21	20
6	20	21	20
7	21	20	20
8	20	20	20

TO PLUG E. C. LEVEL

EC 735810 OR HIGHER LEVEL
E1, E2, E3, E4 TO 50

NOTE

THE ORIGINAL FACTORY
MODEL NUMBER IS
REFLECTED BY THE HIGH
DIGIT OR ALPHA
CHARACTER OF THE
SERIAL NUMBER EXCEPT
FOR 90K SERIES

A, B, P = MOD 3
G, H, S = MOD 4
C, D, Q = MOD 5
J, K, T = MOD 6
E, F, R = MOD 7
M, N, U = MOD 8

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	PLUGGING AND WIRING			10SEP73	735811		
INFORMATION				10MAR78	449087		
DESIGN	DJ	10FEB78	SHT 1 OF 2	22MAY80	846320		
DETAIL	JL	8MAR78		12JUN81	846320C		
CHECK	SRC		1. APPROVATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO			N-DJ 10FEB78			LOGIC PG NO	
						A6106	

C

1845808

MACH 3420-RP
MODEL IDENTIFICATION WIRING
VER 000

PART NO

1845808

LOGIC PG NO

A6106

SHEET 2 OF 2

FUNCTION	NET	MOD-8	MOD-6	MOD-4
SENSE	FT115001	M2G13-M2J08	M2G13-M2J08	M2G13-M2S10
	FT115002	M2D04-M2S10	M2D04-M2D08	M2D04-M2G13
LOGIC CTRL	FT145FG4	L2U06-M2U08	L2U06-L2U08	L2U06-M2D04
	FT145FH4	L2U09-M2U08	L2U09-M2S10	L2U09-M2U08
	FT145FK4	L2U10-M2S10	L2U10-M2U08	L2U10-M2U08
TIME SENSE	FT183001	NO WIRE	NO WIRE	K2D11-K2S08
	FT183002	NO WIRE	K2D11-K2U12	NO WIRE
	FT183003	NO WIRE	NO WIRE	NO WIRE
LIMIT PHD	FT342001	E2U09-E2U08	E2U09-M2S10	E2U09-M2S10
TESTER	WK001025	NO WIRE	NO WIRE	N7B13-N7D08
	WK001026	NO WIRE	N7D13-N7D08	NO WIRE
REEL CTRL	FT454001	NO WIRE	NOTE 1 B2B12-B2P10	NOTE 1 B2B12-B2P10
	FT454002	NO WIRE	NOTE 1 B2B13-B2P13	NOTE 1 B2B13-B2P13

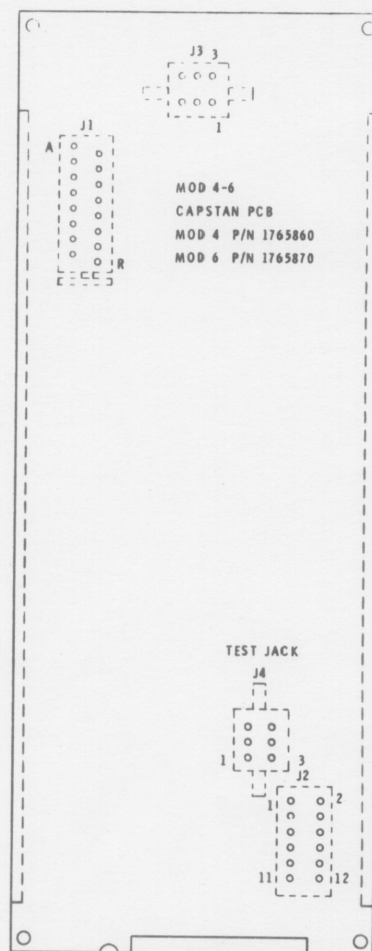
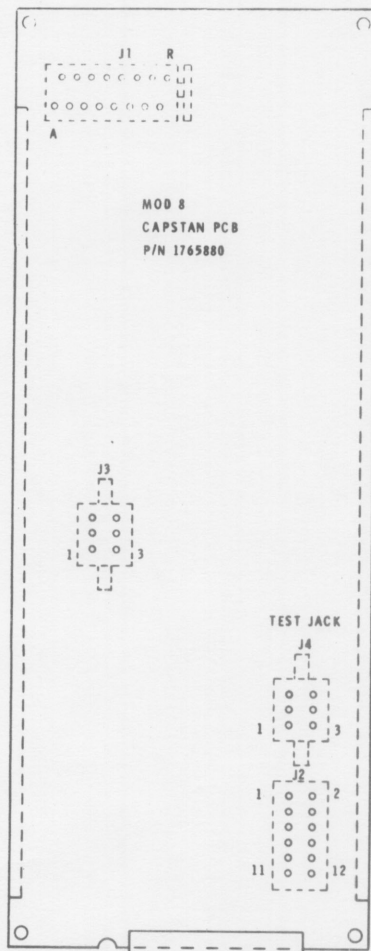
NOTES

- 1 NO WIRE WILL BE INSTALLED IF THE DRIVE HAS REEL MOTOR BOARD PART NUMBER 373561 OR PART NUMBER 2524137 OR PART NUMBER 4450016

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IBM		DATE	CHANGE NO	DATE	CHANGE NO	1845808
NAME	PLUGGING AND WIRING	10SEP73	735811			
INFORMATION		10MAR78	449087			
DESIGN	SHT 2 OF 2	22MAY80	846320			
DETAIL		12JUN81	846320C			
CHECK		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO		A6106
APPRO	N-DJ 10FEB78			LOGIC PG NO		

CAPSTAN MOTOR BOARD
3420 MOD 4-6-8



J2 CONNECTOR

PIN	SIGNAL NAME
1	+ 12 VOLTS
3	- 12 VOLTS
4	- 48 VOLTS
6	GROUND

J3 CONNECTOR

PIN	SIGNAL NAME
1	CAP MOTOR DRIVE
3	CAP MOTOR DRIVE

J4 CONNECTOR

PIN	SIGNAL NAME
1	+12V TEST JACK
3	-12V TEST JACK

P/N 1846173

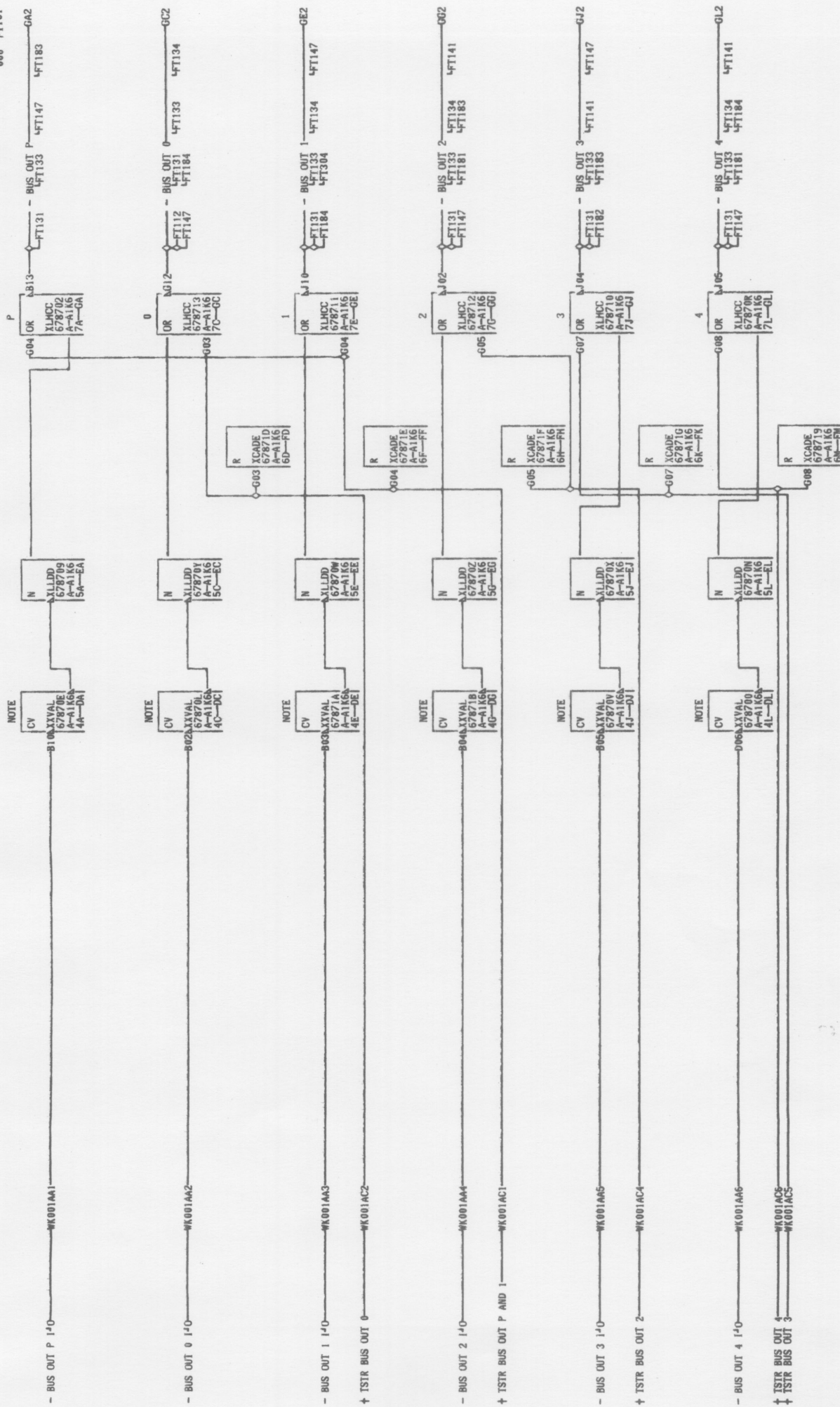
J1 CONNECTOR

PIN	SIGNAL NAME
A	-BIT 1 DAC WB021GA1
C	-BIT 2 DAC WB021GA2
E	-BIT 4 DAC WB021GA3
G	-BIT 8 DAC WB021GA4
H	GROUND
J	-BIT 16 DAC WB021GA5
L	-BIT 32 DAC WB021GA6 MOD 8 ONLY
N	-SIGN BIT WB021GA7
Q	+STOP LOCK FILTER SELECT WB021GA8
R	+POWER ON RESET WB021GA9

P/N 1846173

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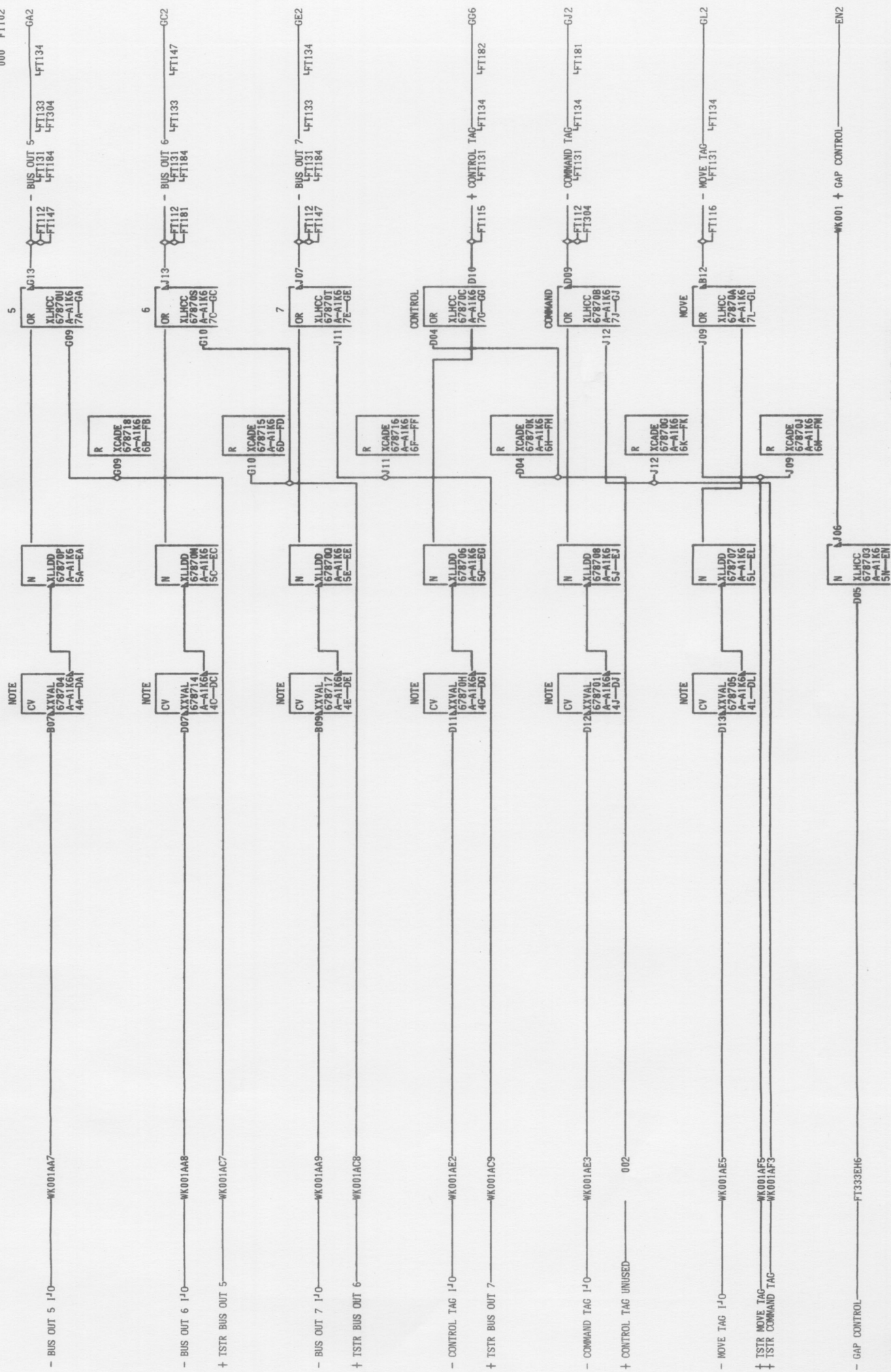
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME SYSTEM DIAGRAM CAPSTAN MOTOR BOARD				22MAY80	846320		
DESIGN	GS	8NOV79	SHT 1 OF 1				
DETAIL	GDI						
CHECK	AR	19JAN80	CLASSIFICATION	MUST CONFORM TO ENG 1 PEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO							



01-21-73 734800
11-28-73 735813

NOTE
SPECIAL LEVELS*
F 14-4 TO GND DAD DCD
I 1
0
1

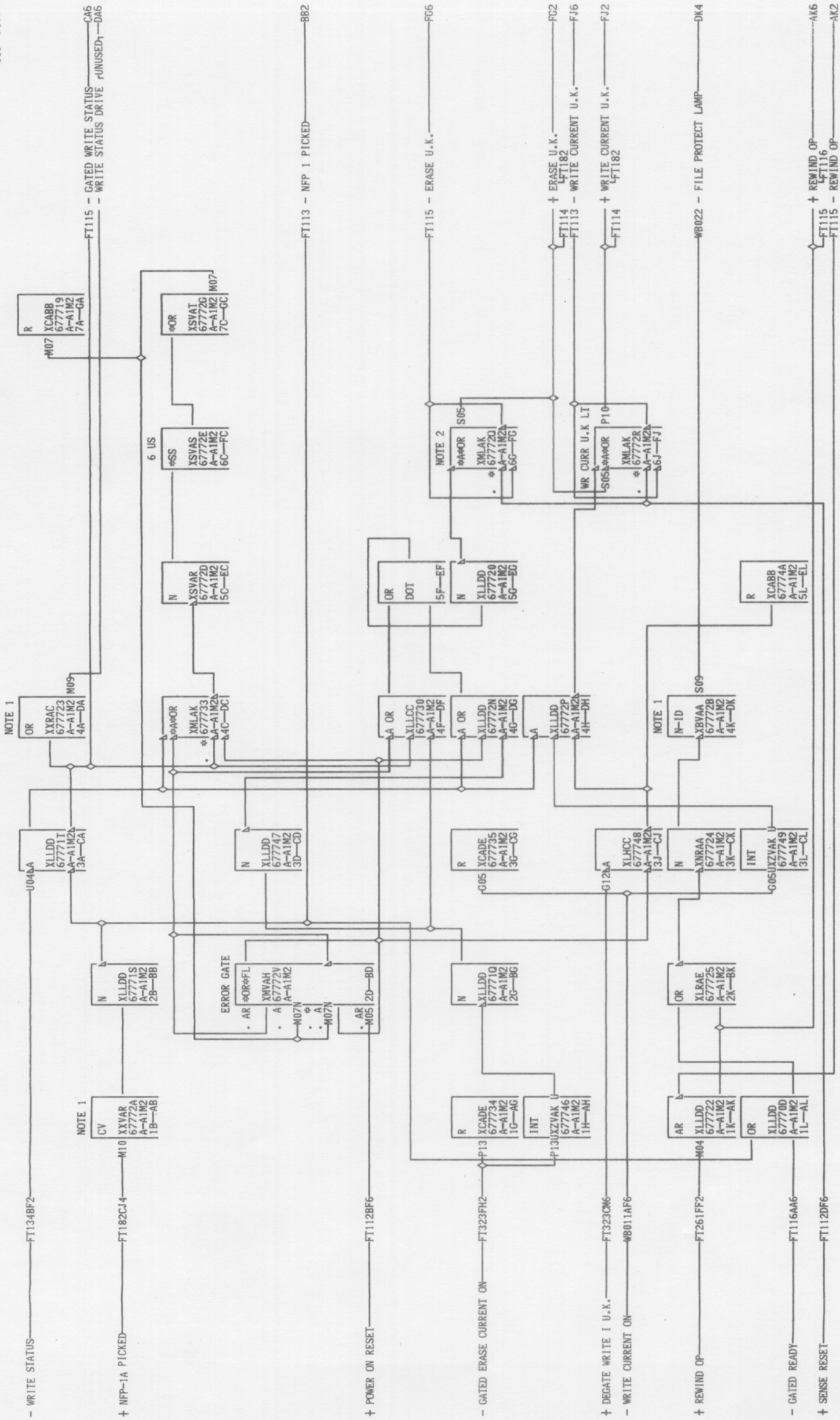
INTERFACE LINES FROM CONTROL
UNIT BUSES P-4
DATE 12-07-73 MACH. 3420-RP
LOG 0035 FRAME 01
P.N. 1848070
IBM CORP. CD BLK. 080



NOTE
SPECIAL LEVELS
F 4.4 TO GND DAD DCD
T DED DGD DLD

01-21-73 734800
11-28-73 735813

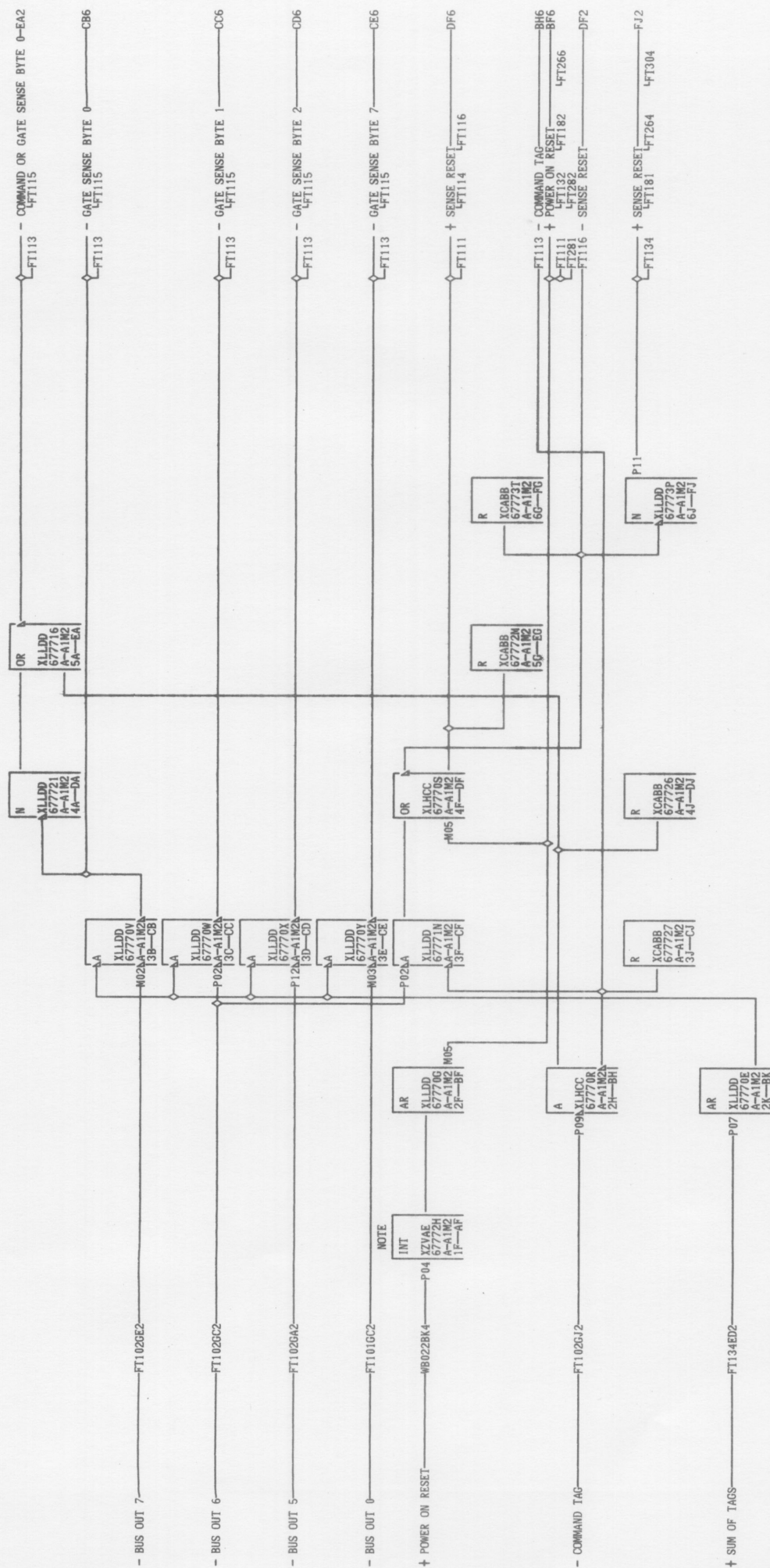
INTERFACE LINES FROM CONTROL
UNIT BUSES 5, 6, 7 AND TAGS
DATE 12-07-73 MACH. 3420-RP
LOG 0035 FRAME 01
P.N. 1848071 000
IBM CORP. CO BLK. GM



01-21-73 734800
06-14-73 735810

WRITE STATUS DRIVE
ERASE/WRITE FAIL DETECT
DATE 07-13-81 MACH. 3420-RP
LOG 0119 FRAME 01
P.N. 1848072 000
IBM CORP. CO BLK. GF

NOTE 1
SPECIAL LEVELS
F +6.0 TO GND DA6 AND
T +12 TO GND DK4
NOTE 2
1 ERASE U.K. OR WRITE
1 CURRENT DURING
1 WRITE OPERATION



NOTE *SPECIAL LEVELS*
GND TO -4.5 AFD

01-21-73 734800

SENSE RESET POWER ON RESET						F T I L L 2	000
SENSE DECODE 0010206							
DATE 08-30-73 MACH. 3420-RP							
LOG 0117 FRAME 01							
P.N. 1848073							
IBM CORP. CO BLK.							FK

000 FT113

FT147 + STATUS BUS 0 — DA2

— + FORCE NRZ1 UNISUED — FB2

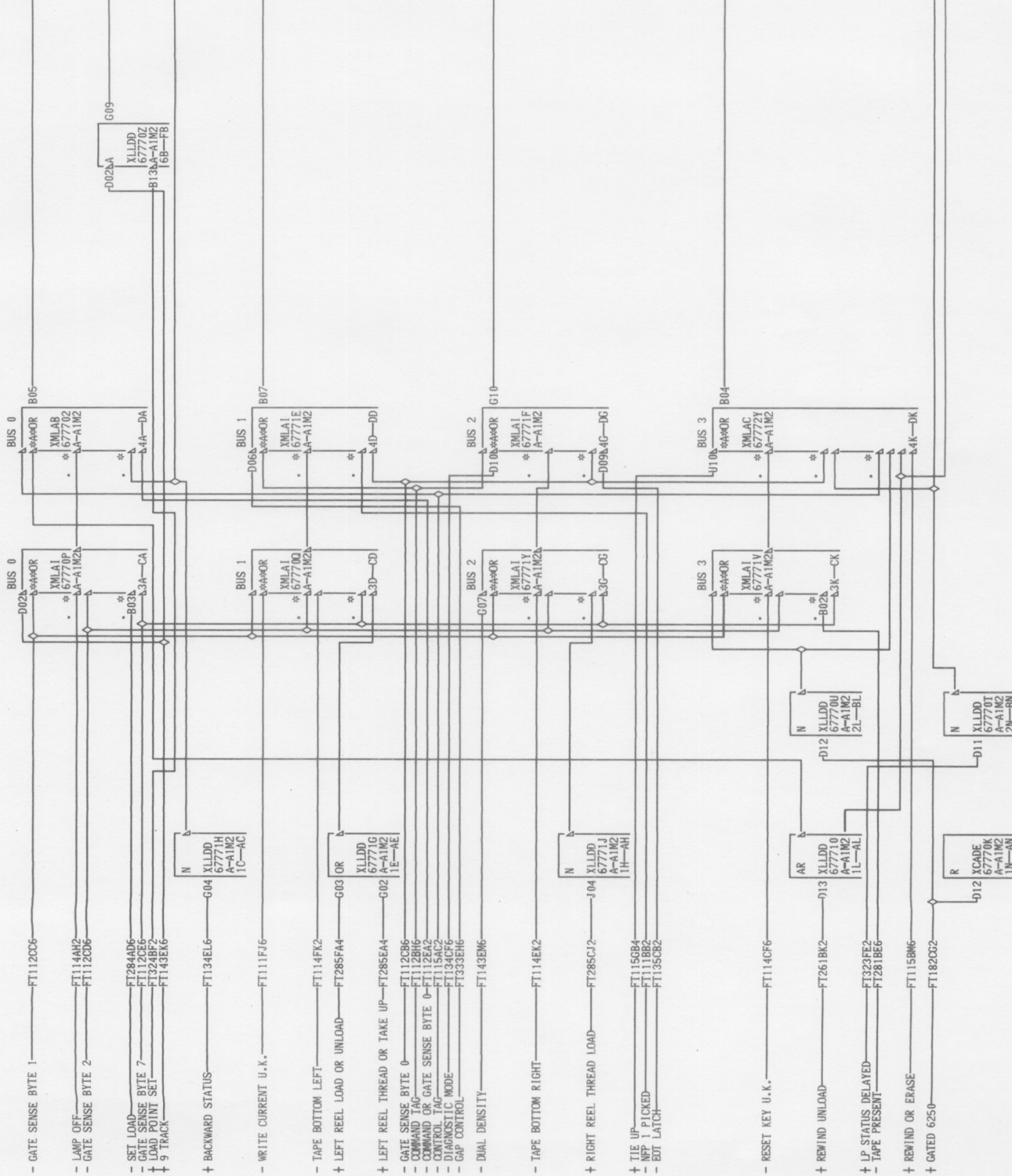
— FT116 — BACKWARD STATUS — AC2

— FT147 + STATUS BUS 1 — D02

— FT181 + STATUS BUS 2 — D62

— FT181 + STATUS BUS 3 — DK2

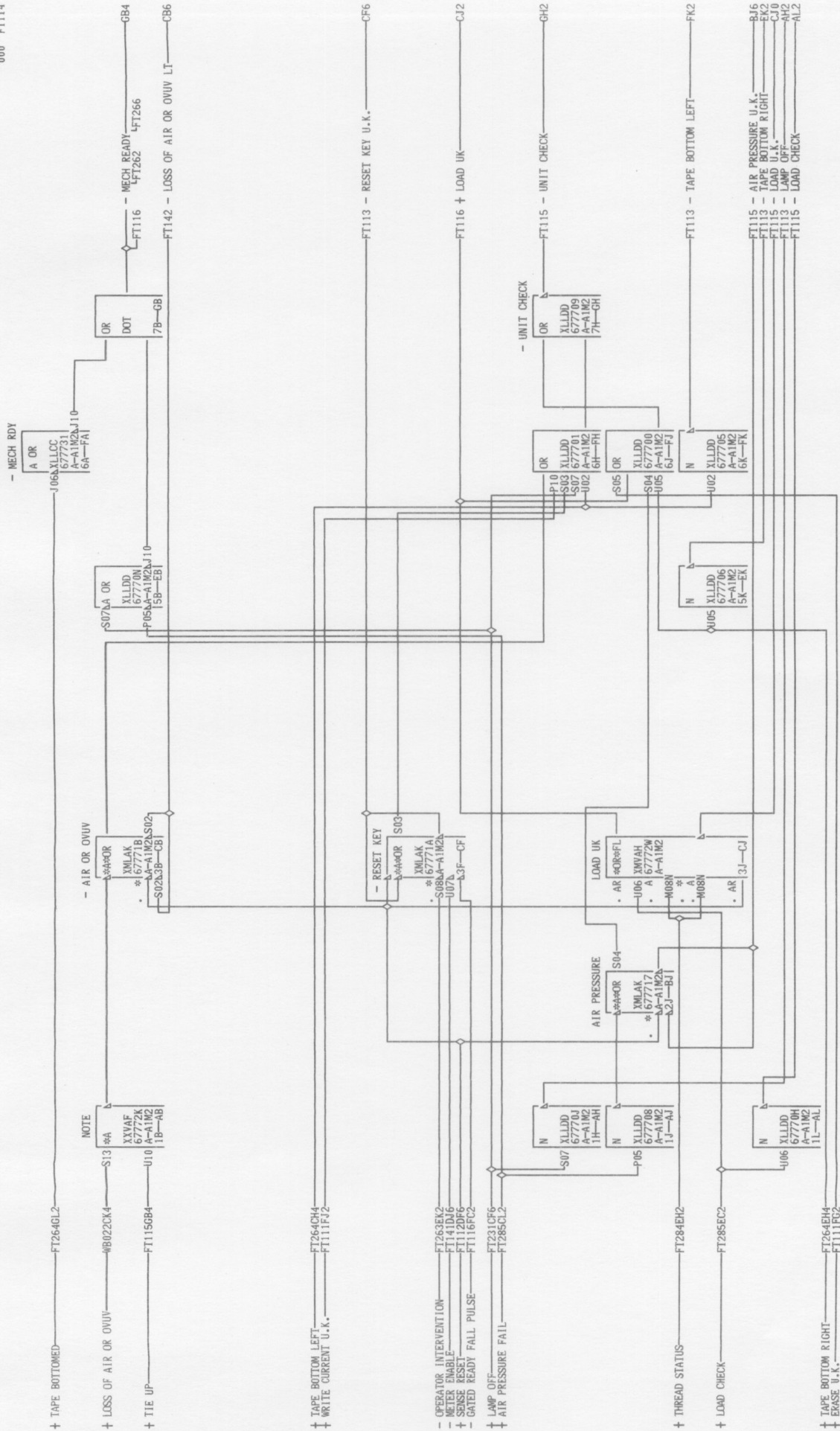
— FT116 — LP STATUS DELAYED A — BN2
— FT115 + REWIND UNLOAD — AL6



01-21-73 734800
06-14-73 735810

STATUS MULTIPLEXING BUSES 0-3	F	T	1	1	3
DATE 07-13-81 MACH. 3420-RP					
LOG 0119 FRAME 01					
P.N. 1848074					
IBM CORP. CO BLK.					

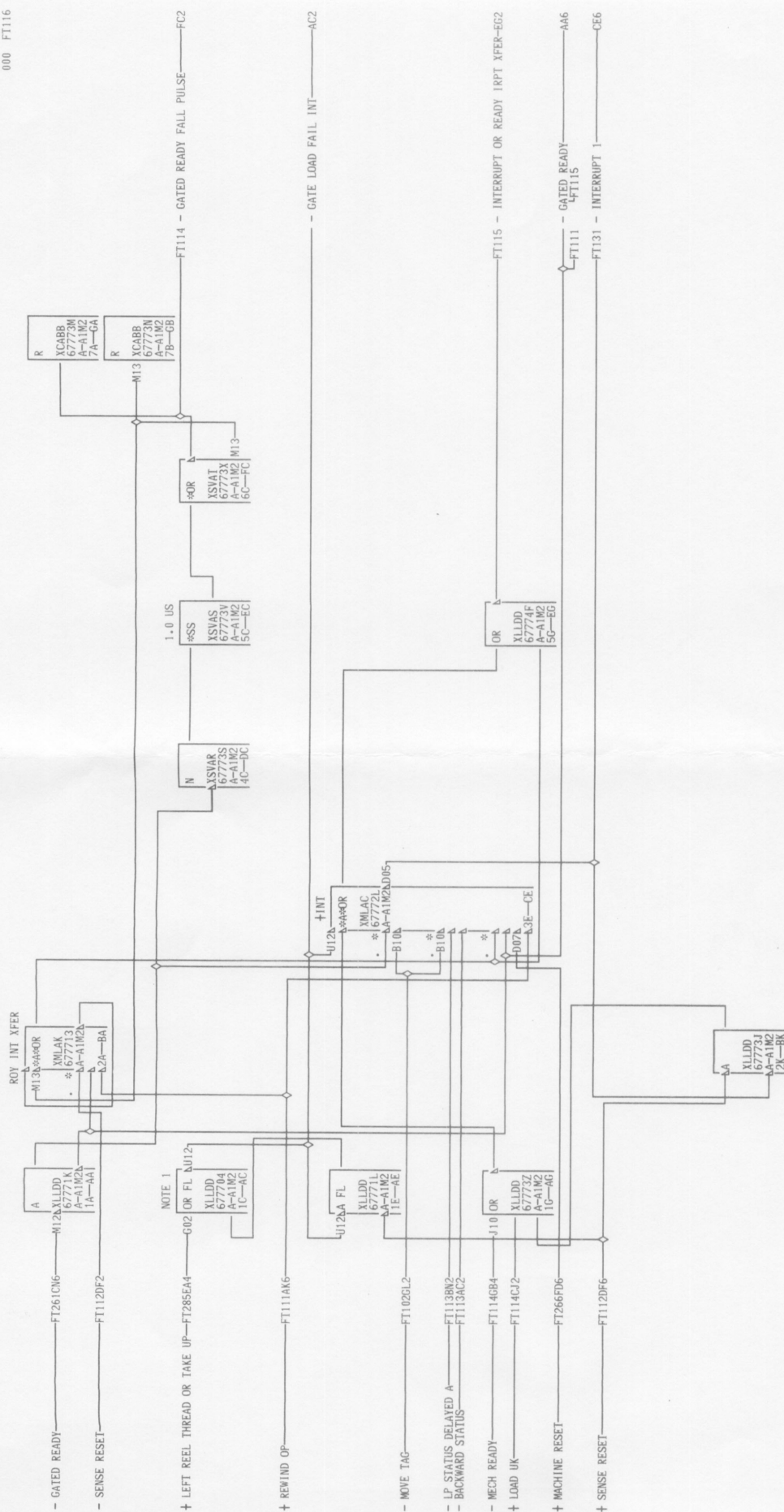
F T 1 1 3
000



NOTE: SPECIAL LEVELS:
+12 TO GND AND

01-21-73 734800

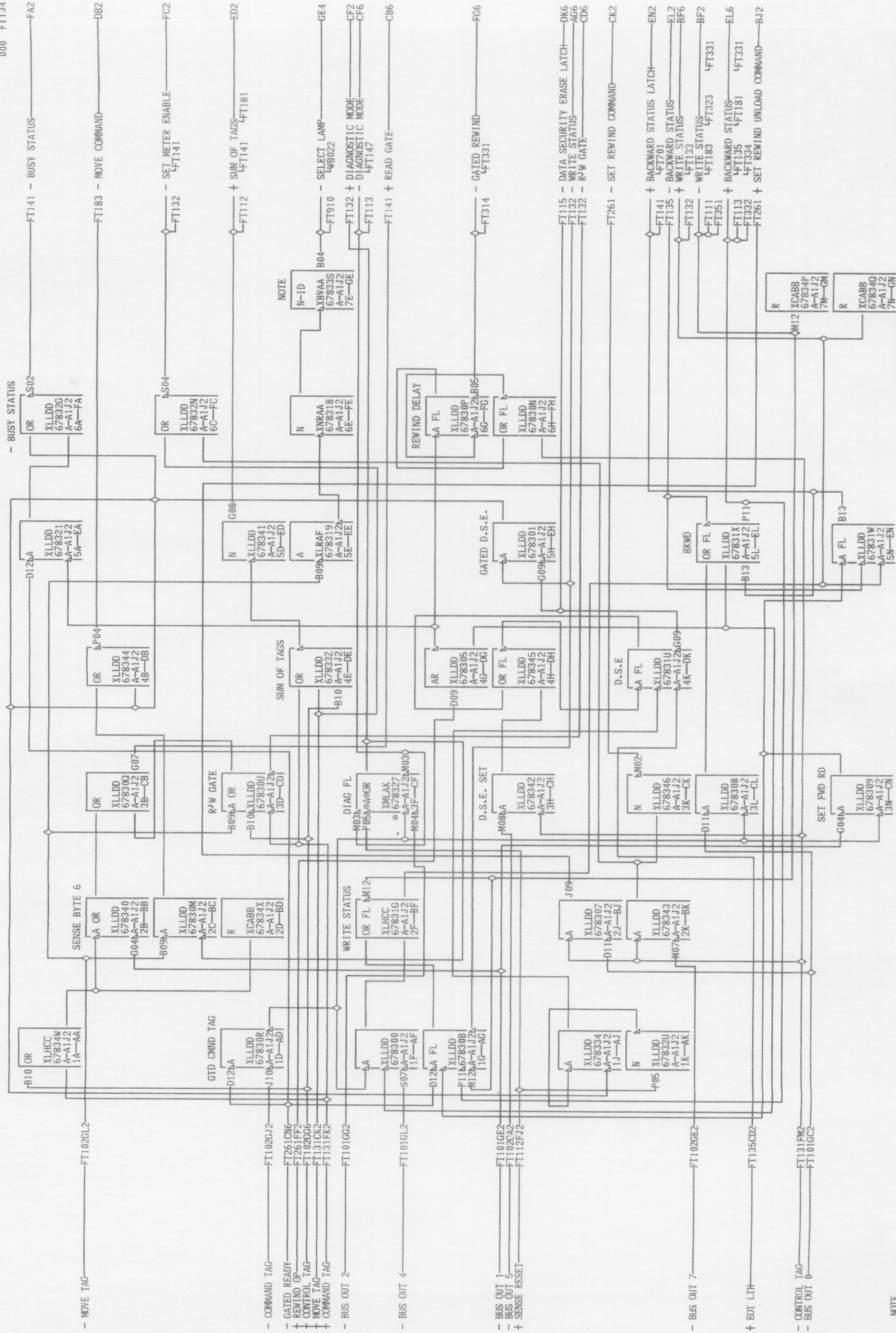
UNIT CHECK MECH. READY			
DATE	07-13-81	MACH.	3420-RP
LOG	0117	FRAME	01
		P.N.	1848075
		CD	BLK.
			000

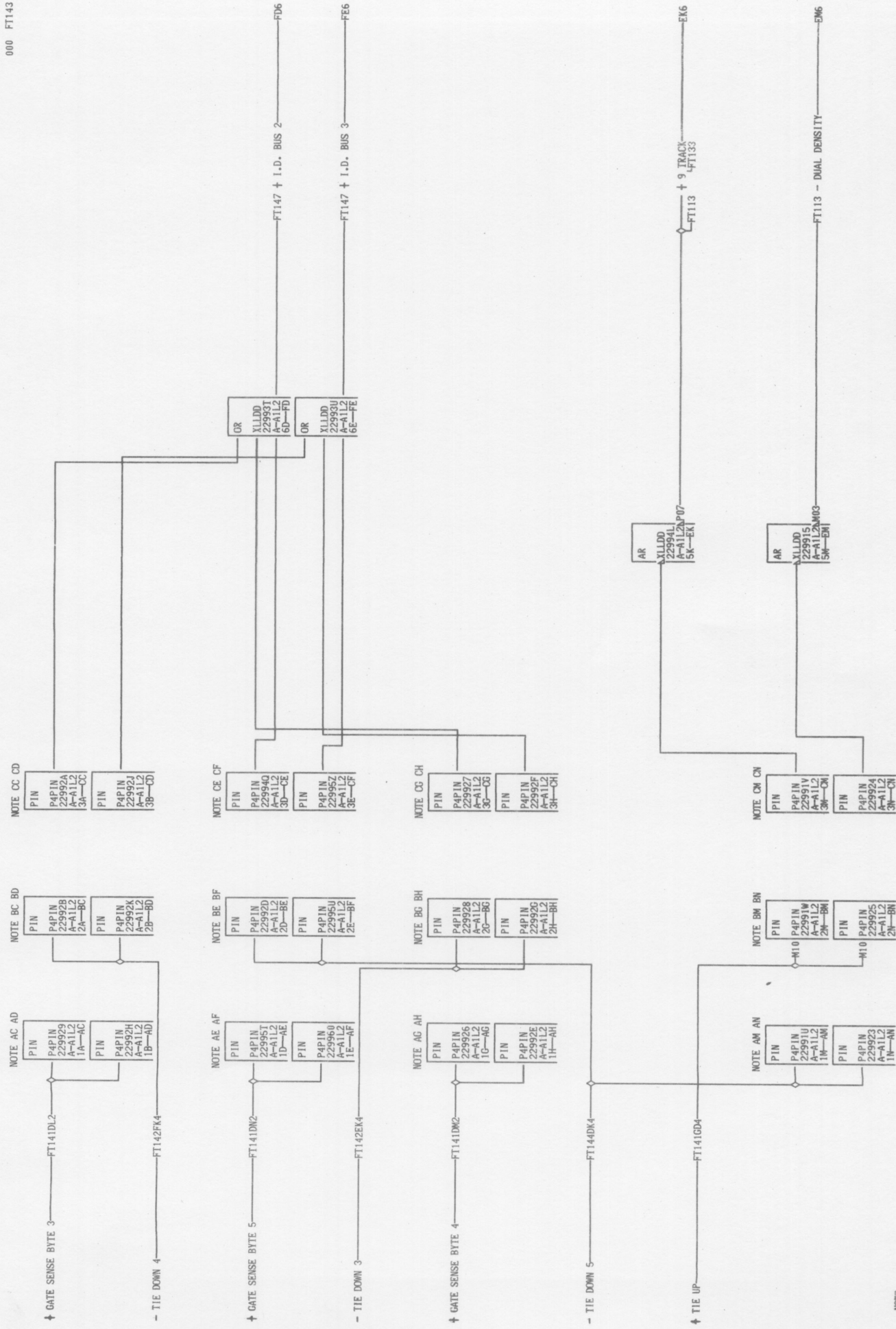


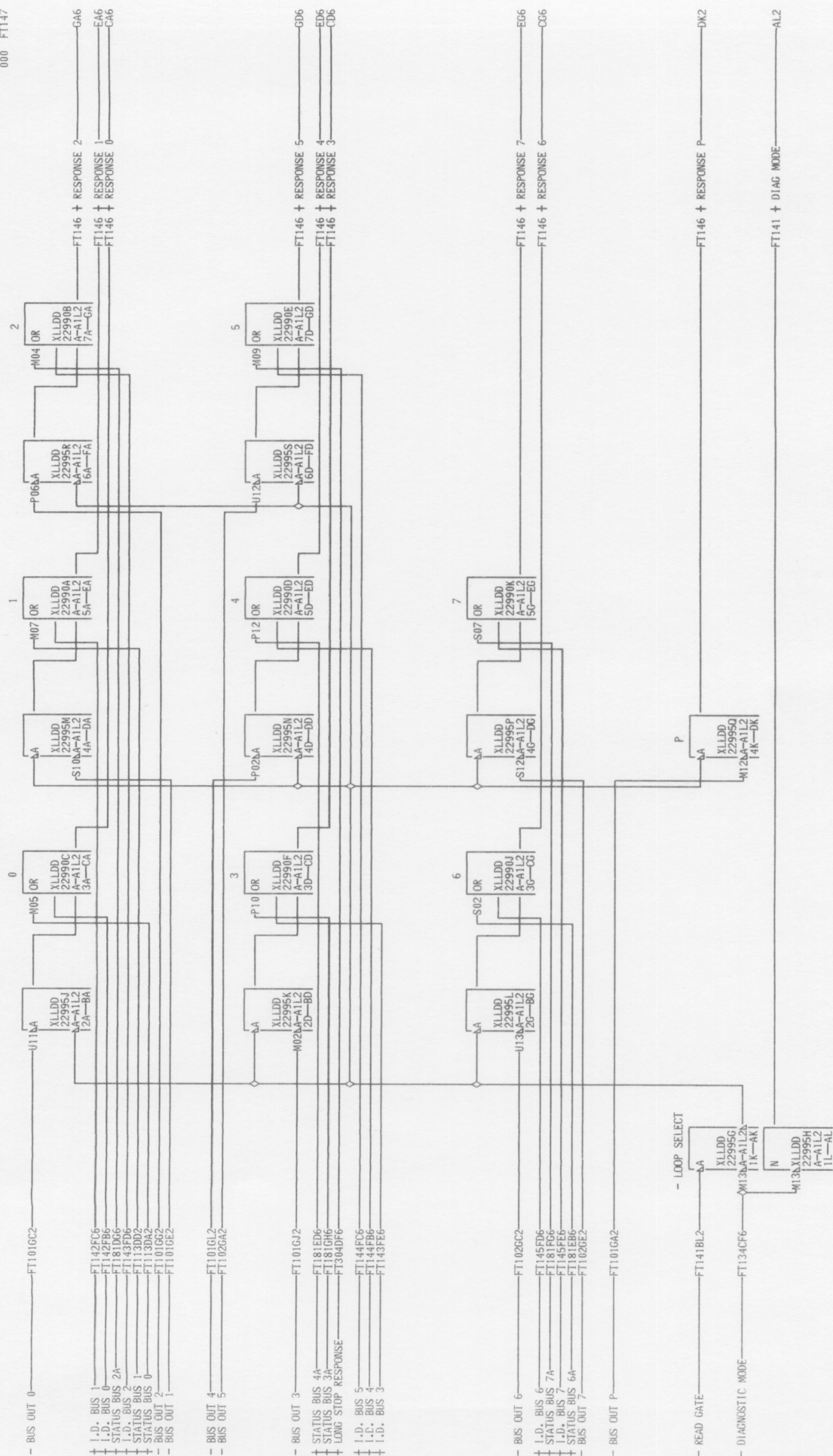
NOTE 1
ON SYSTEMS USING EMULATOR
F CONNECT A1M2U12 TO M2U08
T TO DISABLE LOAD FAIL IRPT

01-21-73 734800
08-15-73 735811
10-05-78 846163
10-21-81 847234

INTERRUPT GENERATION		F T I I 6 000
DATE	01-25-83 MACH. 3420-RP	
LOG	1674 FRAME	01
	P.N. 1848077	
IBM CORP.	CO BLK.	CN







000 FT148
 WK001 - BUS IN 0 - BS6
 FT146DA2 - BUS 0 - WK001 - BUS IN 0 - BS6

WK001 - BUS IN 1 - FC6

WK001 - BUS IN 2 - BS6
 WK001 - BUS IN 3 - BS6
 WK001 - BUS IN 4 - BS6

WK001 - BUS IN 5 - FC6

WK001 - BUS IN 6 - BS6
 WK001 - BUS IN 7 - BS6

WK001 - BUS IN 8 - BS6

WK001 - BUS IN 9 - BS6

WK001 - BUS IN 10 - BS6

WK001 - BUS IN 11 - BS6

WK001 - BUS IN 12 - BS6

WK001 - BUS IN 13 - BS6

WK001 - BUS IN 14 - BS6

WK001 - BUS IN 15 - BS6

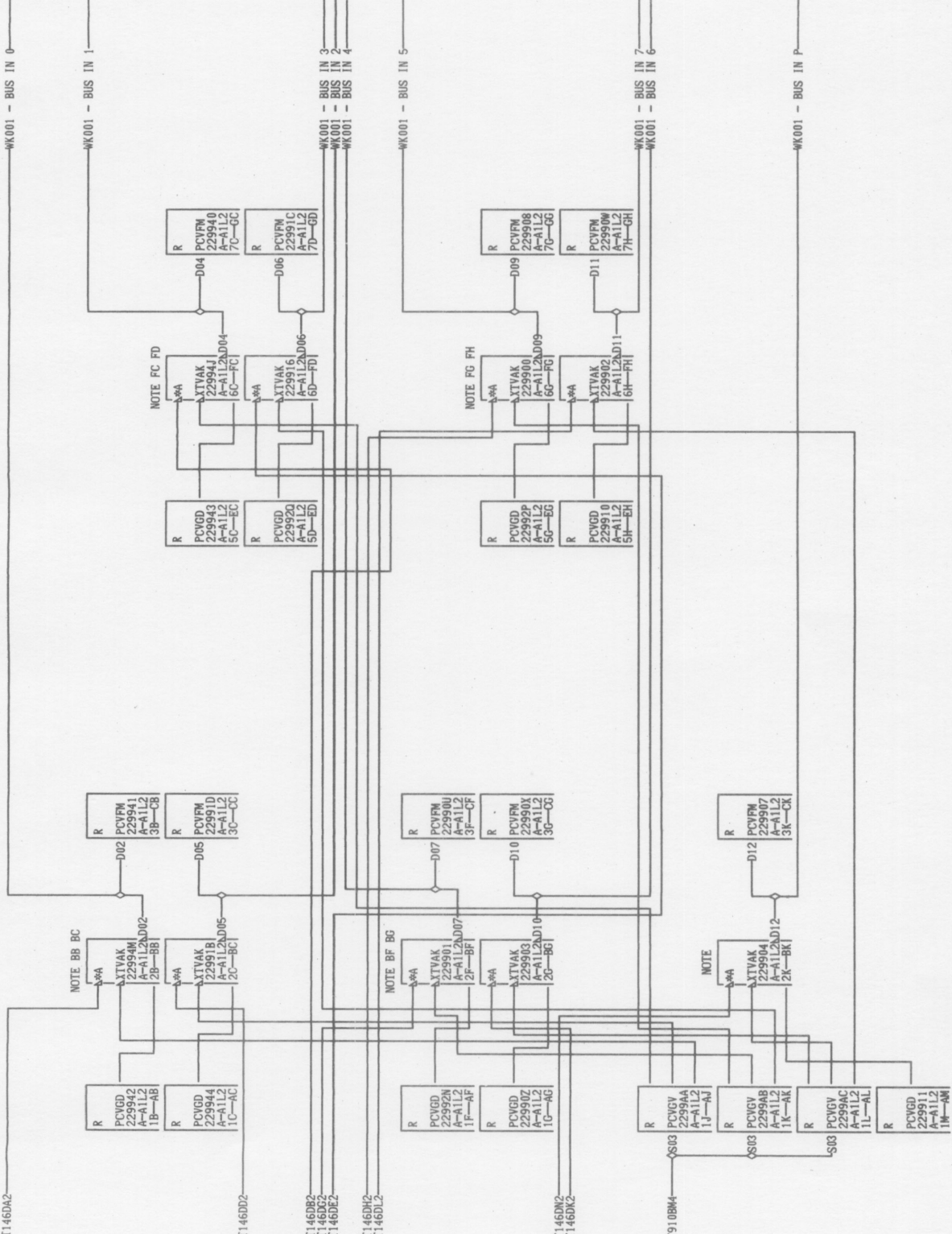
WK001 - BUS IN 16 - BS6

WK001 - BUS IN 17 - BS6

WK001 - BUS IN 18 - BS6

WK001 - BUS IN 19 - BS6

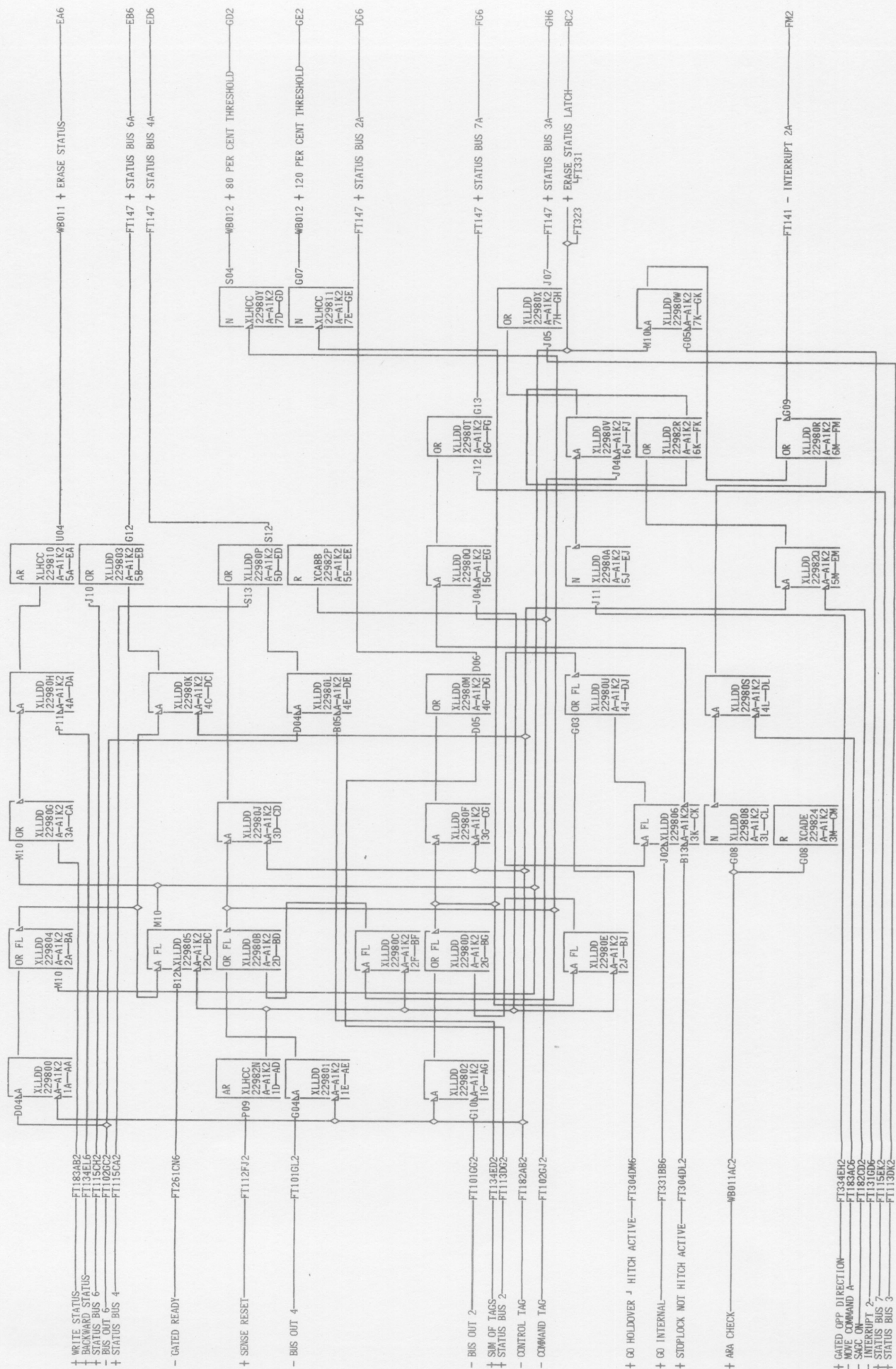
WK001 - BUS IN 20 - BS6



NOTE
 SPECIAL LEVELS 14, 4 TO GND AT
 F BS6 BS5 BF6 BS6 BS6
 T FC6 FD6 FD6 BS6
 000

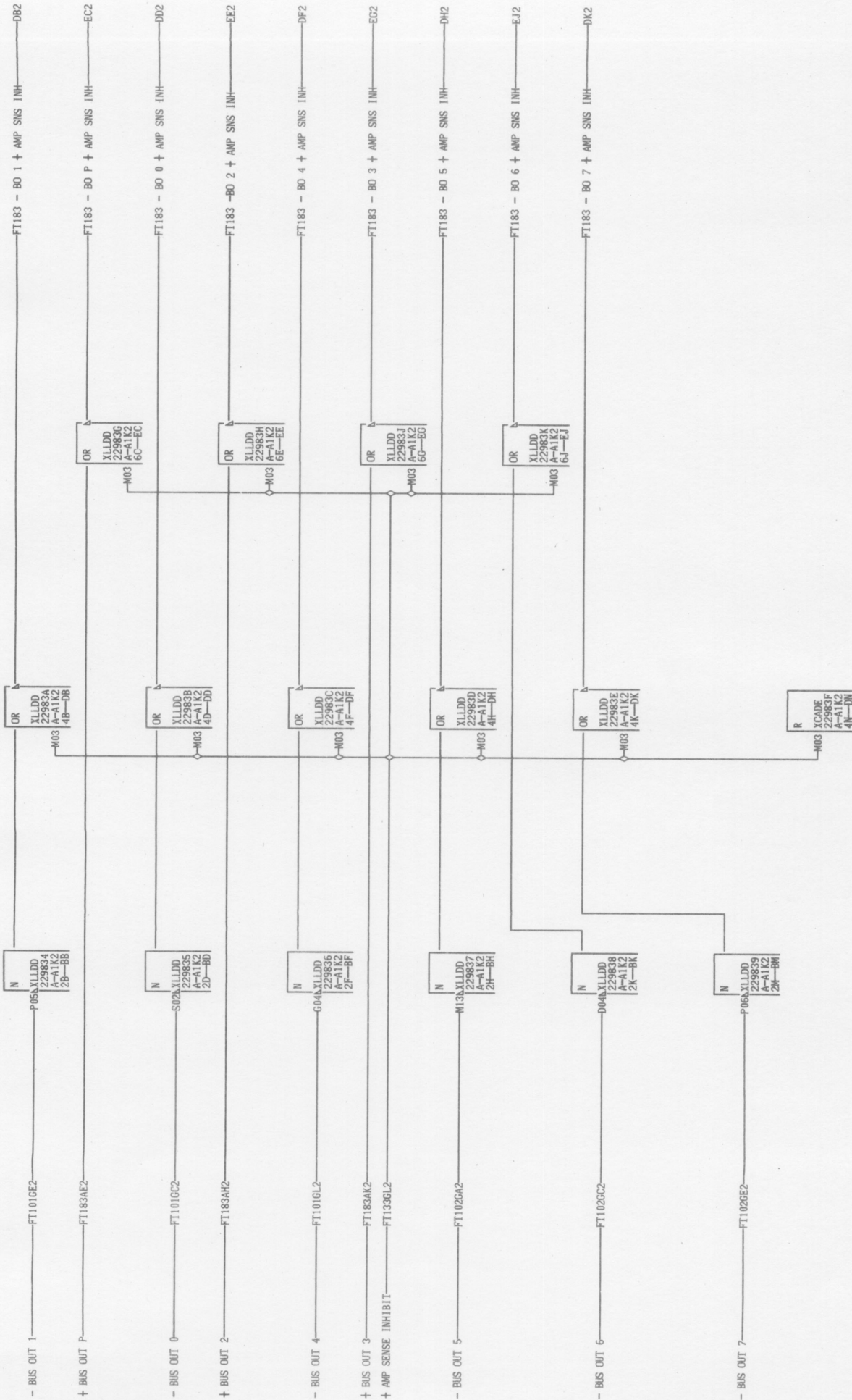
01-21-73 734800

INTERFACE BUS IN			
DATE	07-13-81	MACH.	3420-RP
LOG	0117	FRAME	01 4 8
P.N.	1848090	000	
IBM CORP.	CO	BLK.	GJ



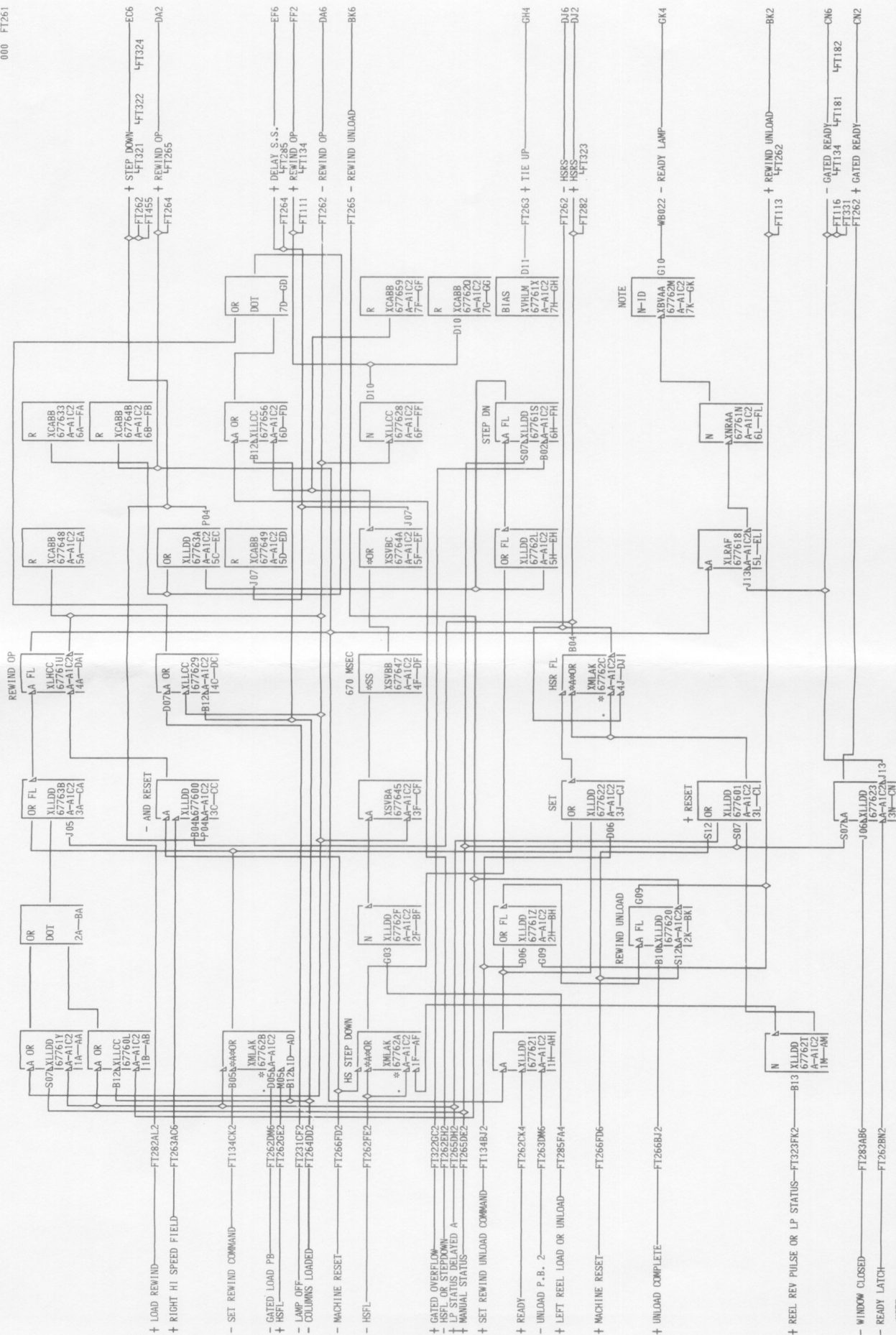


000



11-28-73 735813

ZERO THRESHOLD MULTIPLEX				
DATE	07-13-81	MACH.	3420-RP	
LOG	0073	FRAME	01	
P.N.	1848232	BLK.	000	
ITEM	CORP.	BLK.	000	



06-14-73 735810
08-15-73 735811
09-14-79 846437
11-01-82 8472348
11-05-82 8472348
03-03-83 467606

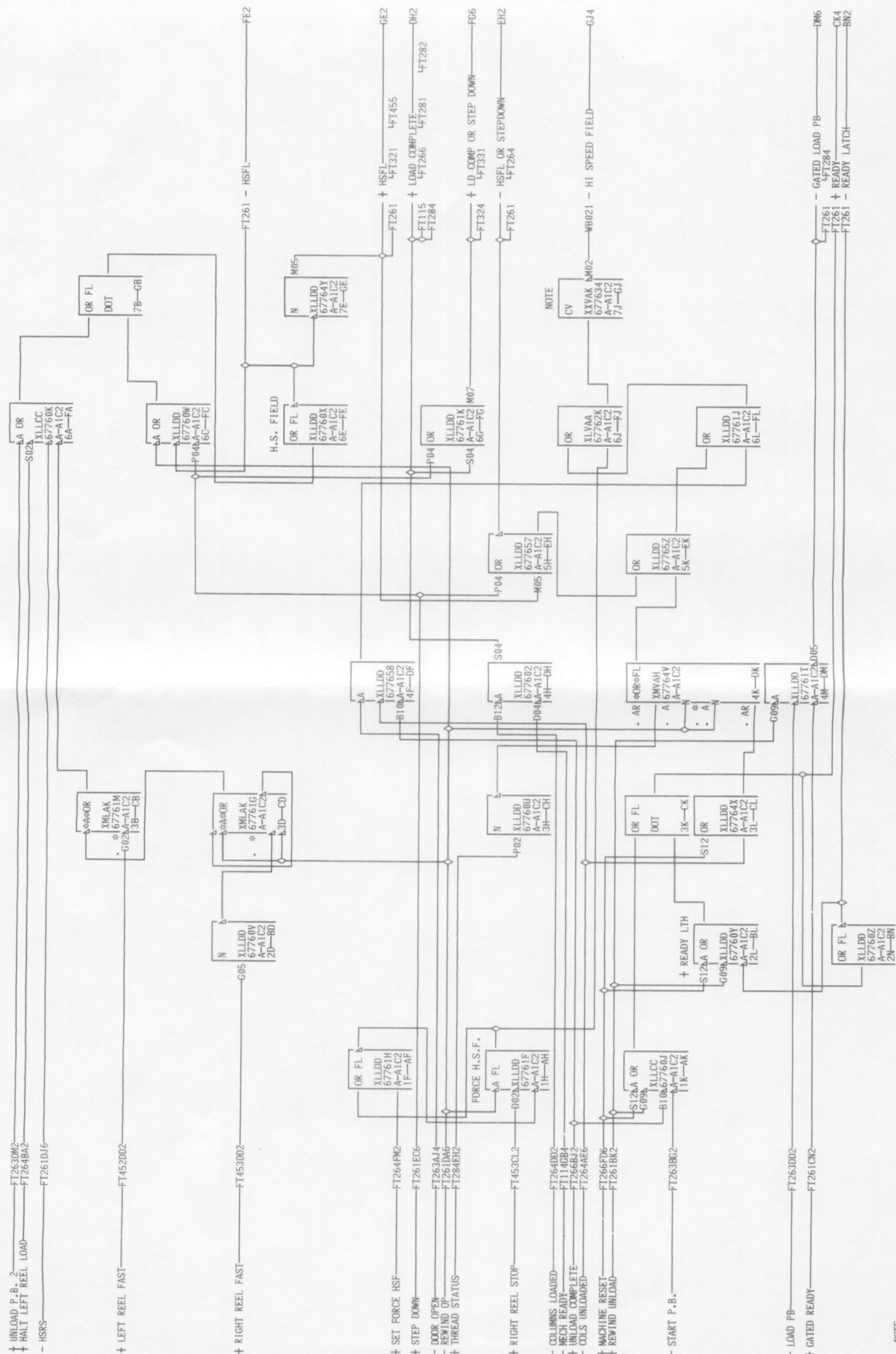
NOTE
SPECIAL LEVELS
F H12 TO GND OK4

REWINDREW UNLOAD-S. REW
DELAY S. GATED READY
DATE 03-08-83 MACH. 3420-RP
LOG 333 FRAME 01
P.N. 1848095
IBM CORP. CD BLK. 000


```

+-----+
| UNLOAD P. 2 |
+-----+
| F2G6RW2     |
+-----+
| F2G6RW3     |
+-----+
| HAT         |
+-----+
| GET_REL_LOAD|
+-----+
| FET_REL      |
+-----+
| NA OR        |
+-----+

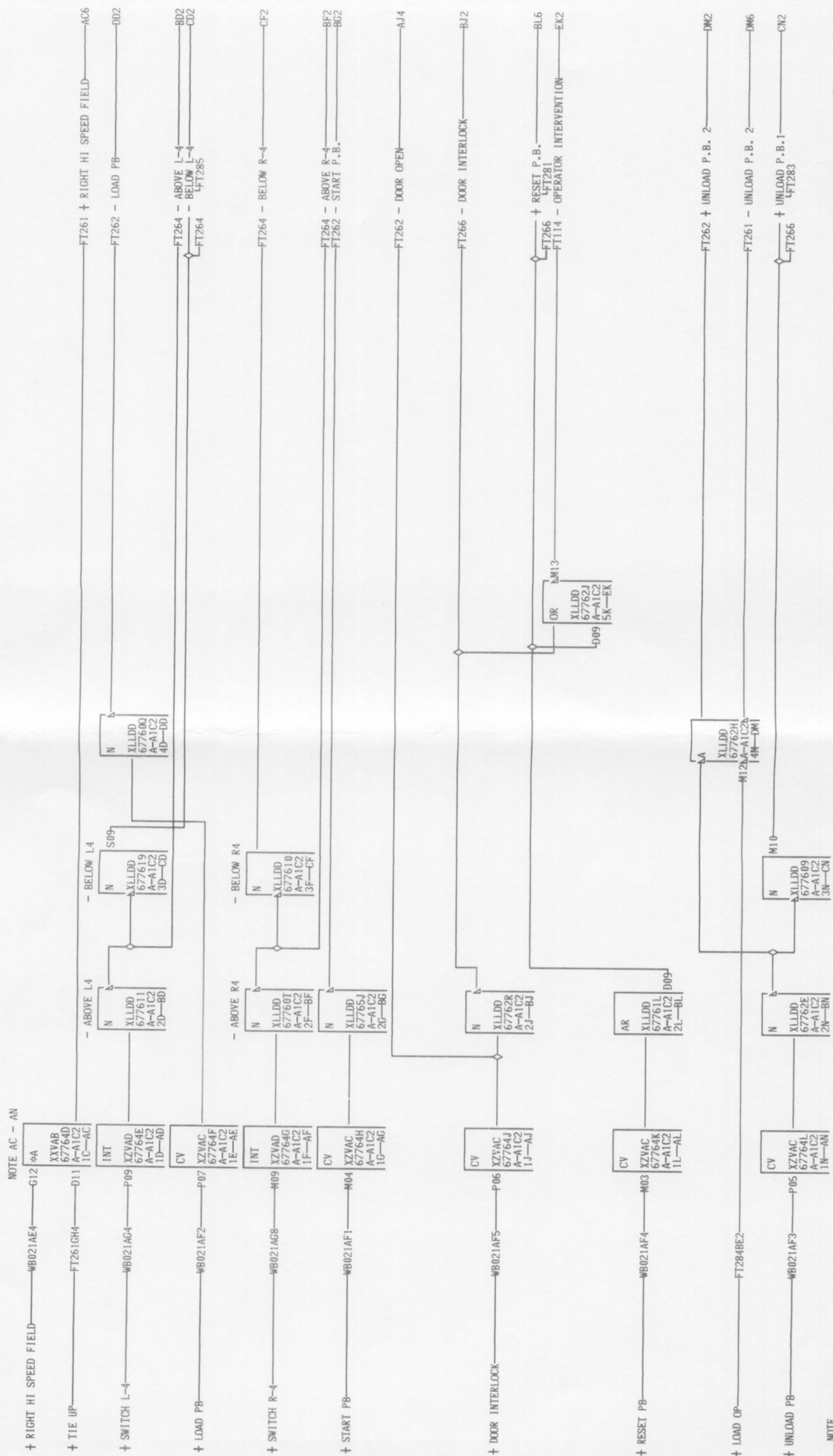
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NOTE
SPECIAL LEVELS
F + 12 TO GND GJ4

01-21-73 734800
10-10-73 735812
10-21-81 847234

HI SPEED FIELD CONTROL	LOG	1674 FRAME	01
LOAD COMPARE/LATCH			
DATE 01-25-83 MACH. 3420-RP			
		P.N. 1848096	
		QO BLK.	
		IRM CORP.	

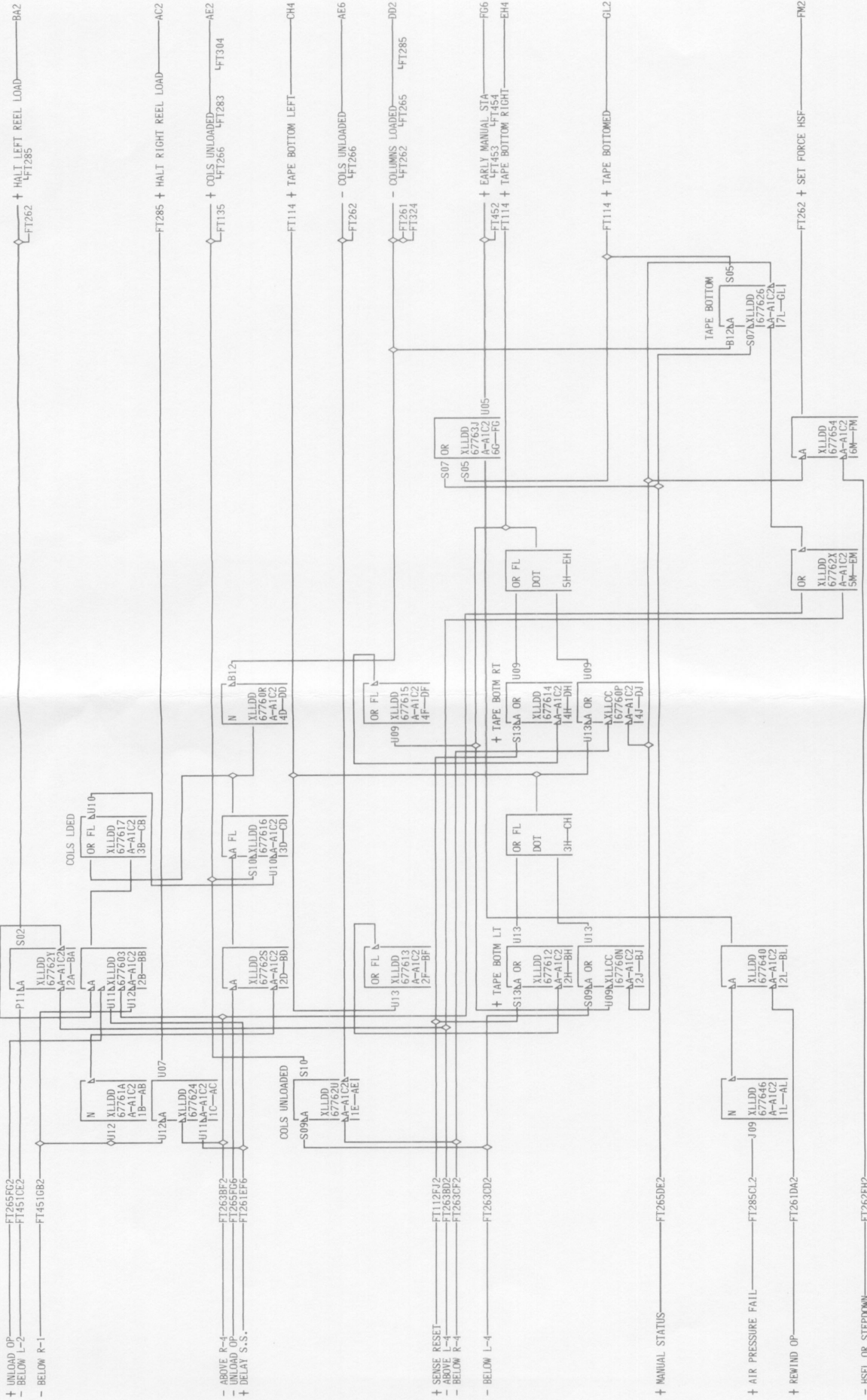


NOTE
F + 12 TO GND ACB
2 GND TO -4.0 AND AED
6 AND ADD AID AND
3

10-21-81 847234
11-05-82 847234B

OF PANEL PUSH BUTTONS			
DATE	01-21-83	WACH.	3420-RP
LOG	589	FRAME	01
P.N.	1848097	CO	BLK.
FC	000		

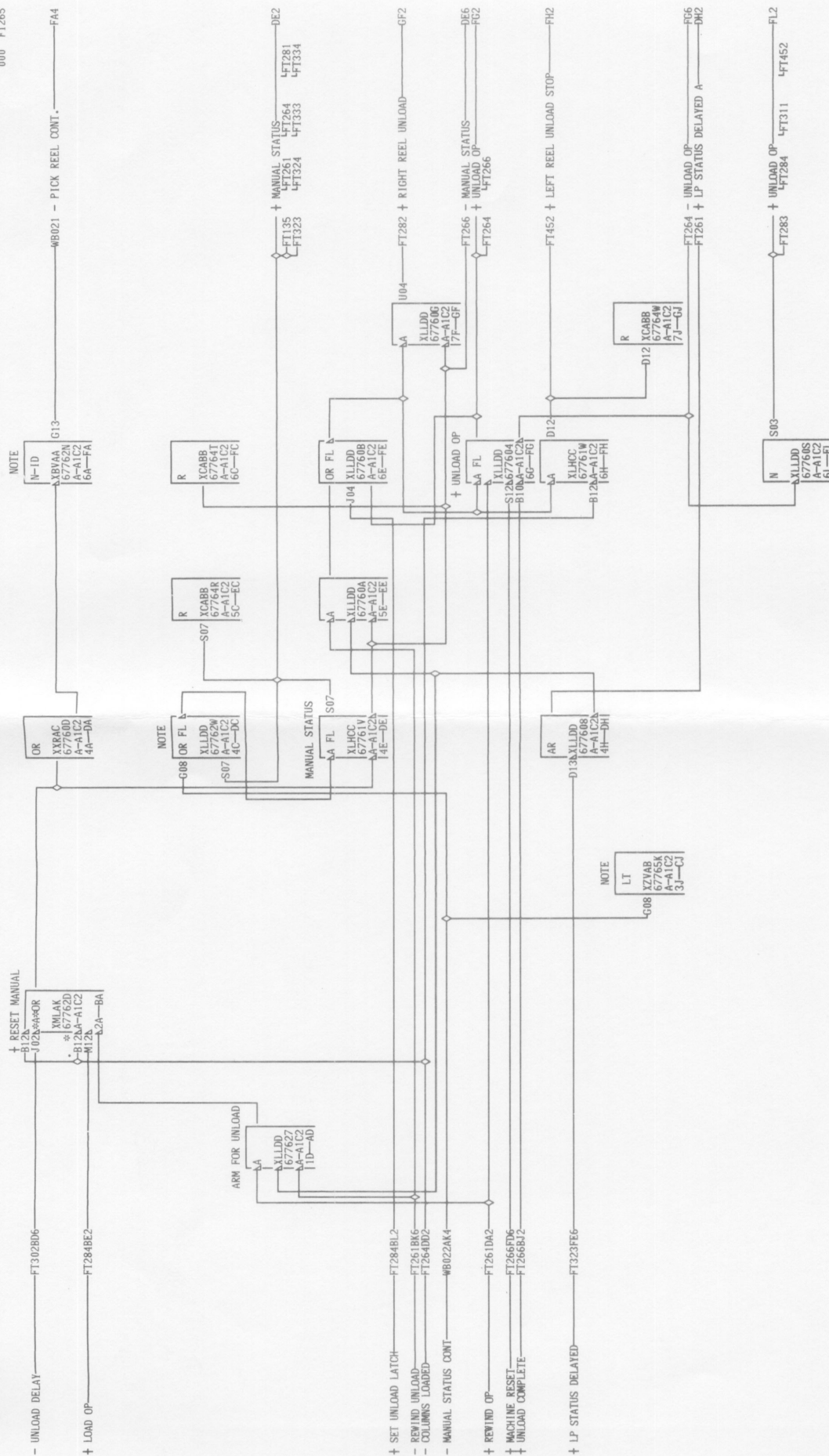
000 FT264



01-21-73 734800
04-27-73 734801
10-10-73 735812
08-18-81 847863
10-21-81 847234

COLUMNS LOADED
TAPE BOTTOM SENSING
DATE 01-25-83 MACH. 3420-RP
LUG 1674 FRAME 01 6
P.N. 1848098 000
IBM CORP. CD BLK. CM

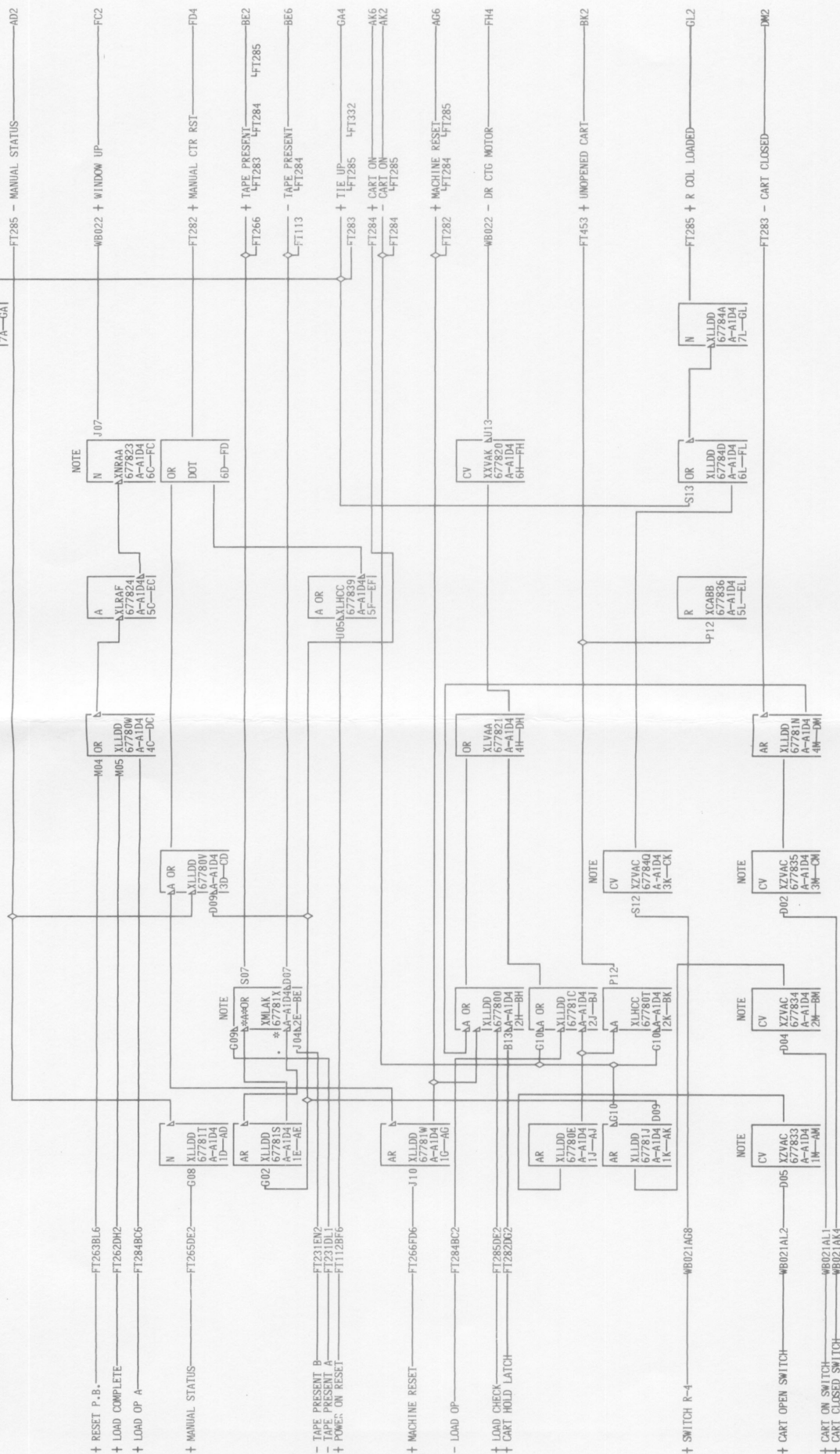
F
1
2
6
4
000



NOTE
SPECIAL LEVELS
+12 TO GND FA4Q
F T I -5 TO -2.5 CJD DCB

01-21-73 734800
04-27-73 734801
08-15-73 735811
10-10-73 735812
09-14-79 846437
10-21-81 847234

MANUAL STATUS CONTROL	
UNLOAD OP L	
DATE 01-25-83 MACH. 3420-RP	
LOG 1674 FRAME 01	
P.N. 1848099	
IBM CORP. CO BLK.	
	000

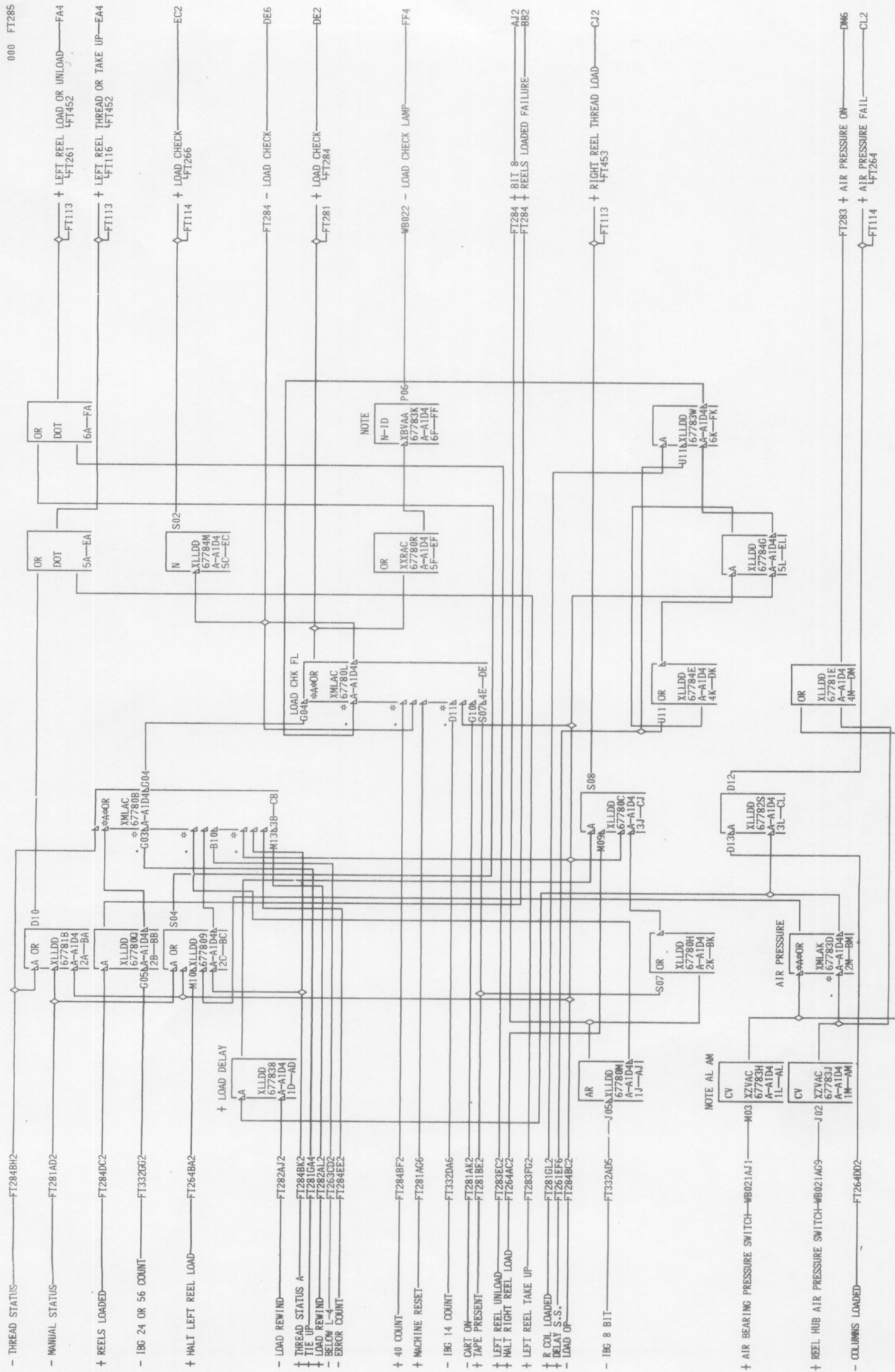


*SPECIAL LEVELS#
F +6.0 TO GND FC2Q
T +12 TO GND FH4Q
2 GND TO -4 AMD BMD CND BEA CKD

01-21-73 734800
04-27-73 734801
09-14-79 846437
07-16-80 846437B
10-21-81 847234

CARTRIDGE(TAPE PRESENT)
WINDOW UP
DATE 01-25-83 MACH. 3420-RP
LOG 1674 FRAME 01
P.N. 1848101
ERM CORP. CO R.K.
CM

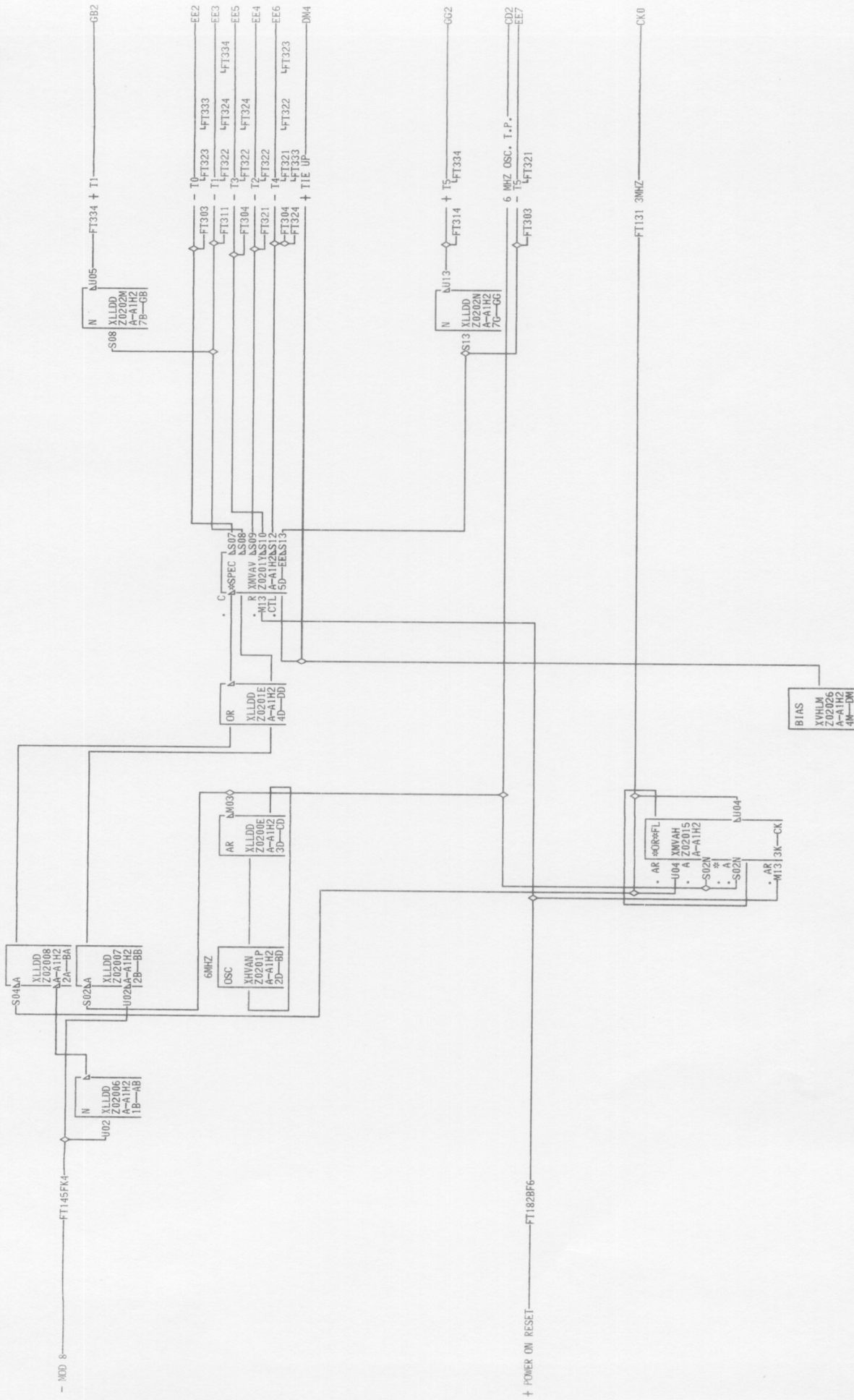
F I T 2 8 1
000



NOTE:
SPECIAL LEVELS
F GND TO -4 ALD AND
I H12 TO GND FF4

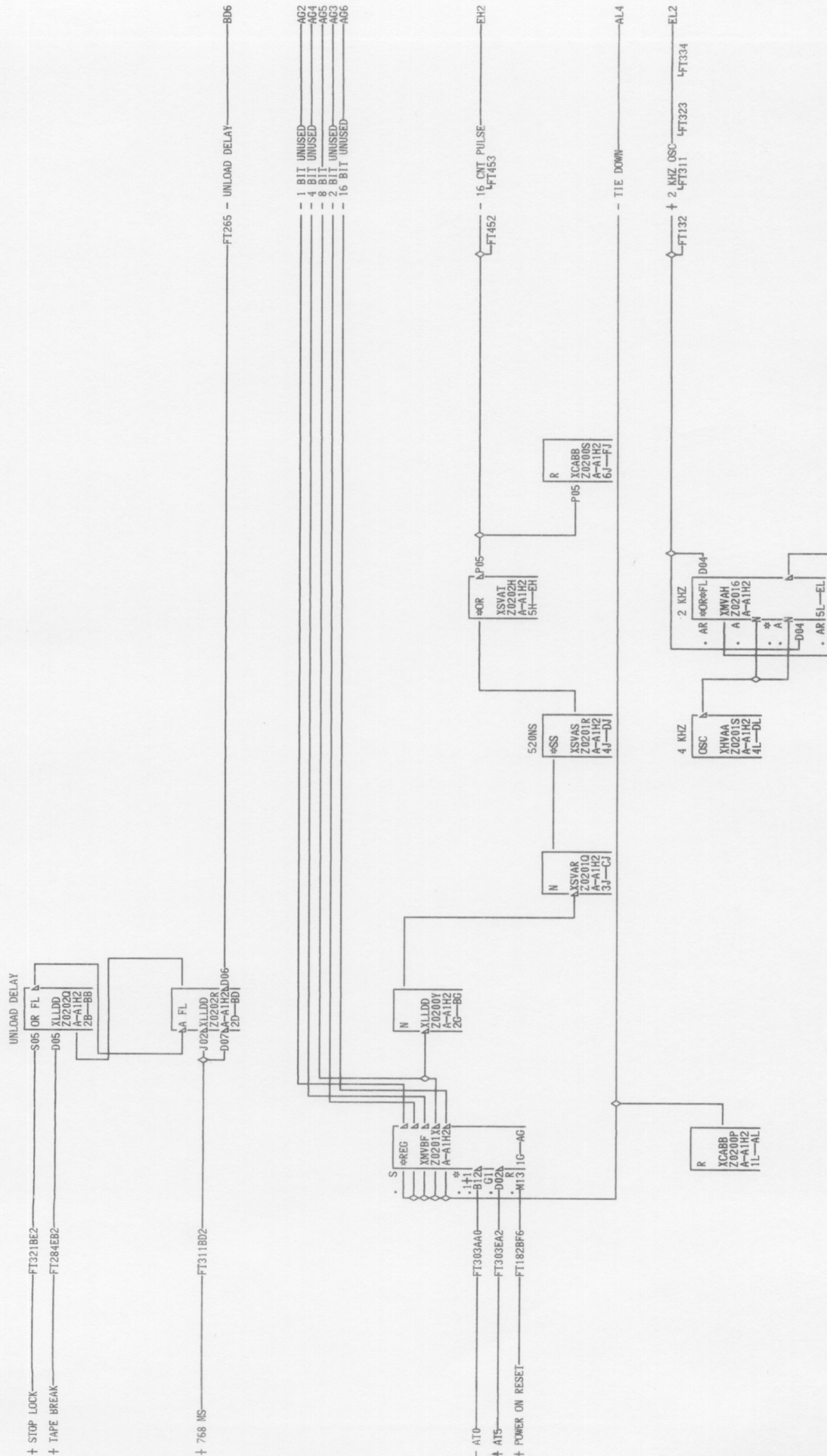
01-21-73 734800
10-11-79 846437

LOAD CHECK			
AIR PRESSURE DETECT	DATE	07-13-81	MACH. 3420-RP
LOG	LOG	1864	FRAME 01
			P.N. 1848105
			000
			FL



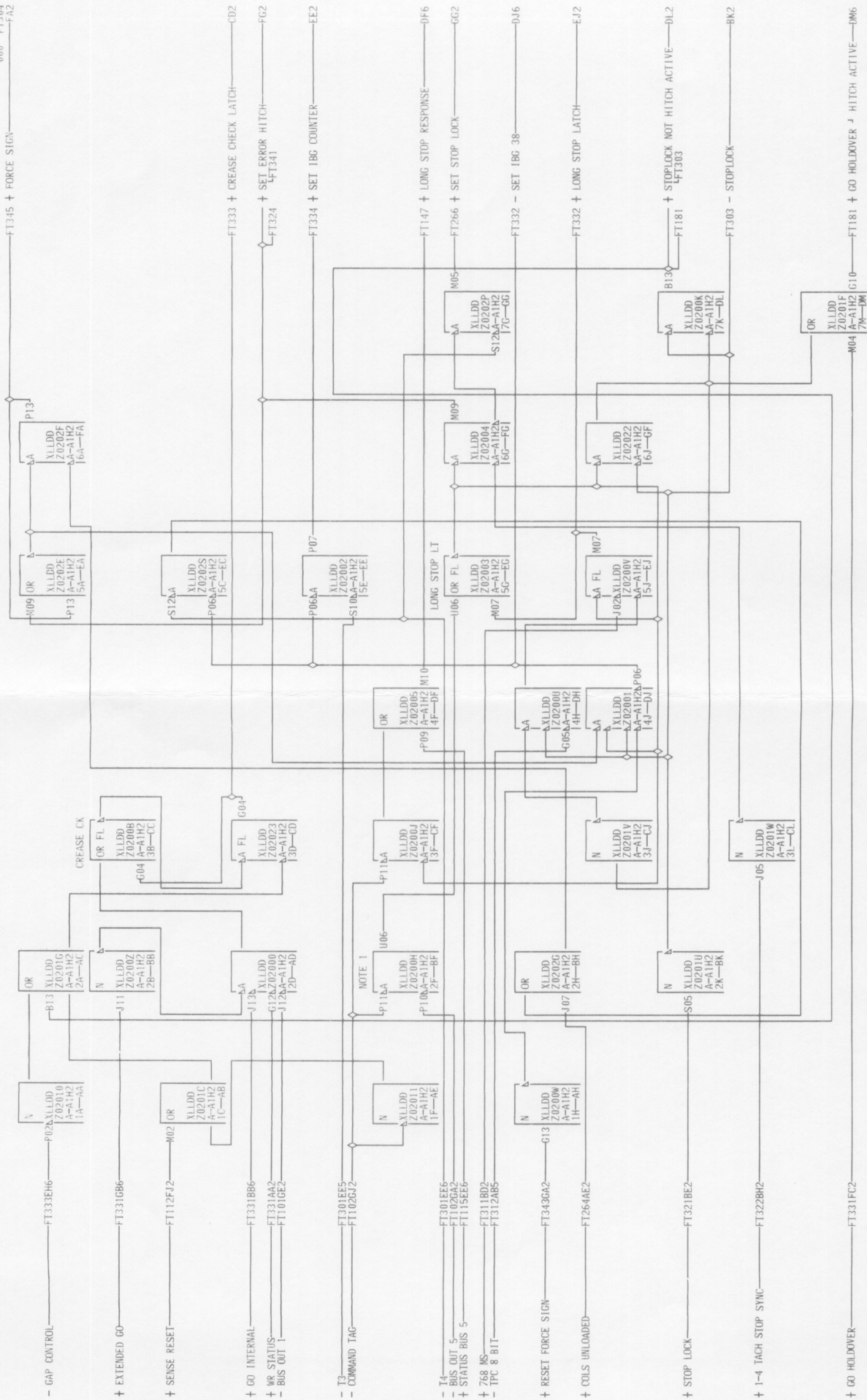
01-21-73 724800
04-27-73 724801
06-14-73 725810

GRAY CODE COUNTER			
DATE	07-13-81	MACH.	3420-RP
LOG	0119	FRAME	01
P.N.	1848106	BLK.	000
IRW CORP.		CK	



01-21-73 734800
02-14-73 735811
03-17-73 735810
08-15-73 735811

16 COUNT GENERATION			
DATE	07-13-81	MACH.	3420-RP
LOG	0120	FRAME	01
P.N.	1848107	CO	BLK.
IBM CORP.	CO	BLK.	000



NOTE 1
TO CHECK OPERATION
F OF EXT. BMD, STOPS
J JUMPER H2006 TO F2J11
3 FACTORY ONLY
4

01-21-73 734800
04-27-73 734801
06-14-73 735810
08-15-73 735811
03-22-74 735815
07-23-74 735818
10-21-81 847234

CREASE TAPE CTRL			
DATE	01-25-83	MACH.	3470-RP
LOG	1674	FRAME	01
		P.N.	1848109
		IBN CORP.	GM

+ SAMPLED TPC EQUAL GATED FT322AF2 FT312 - TPC COUNTER INPUT CC2
- T1 FT301EE3

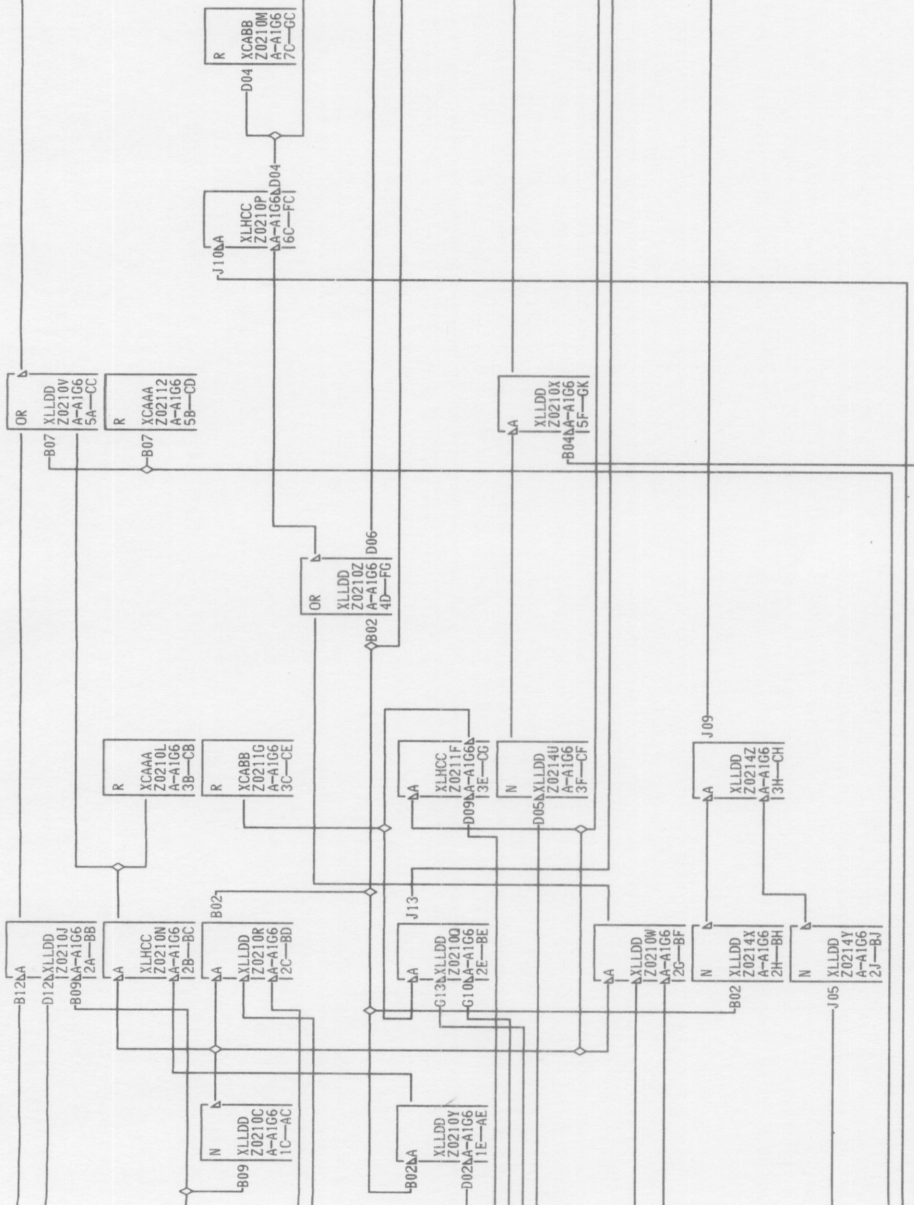
+ STOP LOCK FT321BE2
- GO DOWN COUNT 1024 FT312FJ0
- TPC 512 BIT FT312CH6

+ 2 KHZ OSC FT302EL2
+ RESET TPC FT322FF6
- TPC 16 BIT FT312AB6
- TPC 8 BIT FT312AB5
- TAPE PRESENT A FT231DL1

- TPC 2 BIT FT312AB3
- TPC 4 BIT FT312AB4

+ UNLOAD COMPLETE FT266B12

+ TPC COUNTER INPUT T.P. 002
+ UNLOAD COMPLETE FT265FL2
- TAPE PRESENT B FT231E2



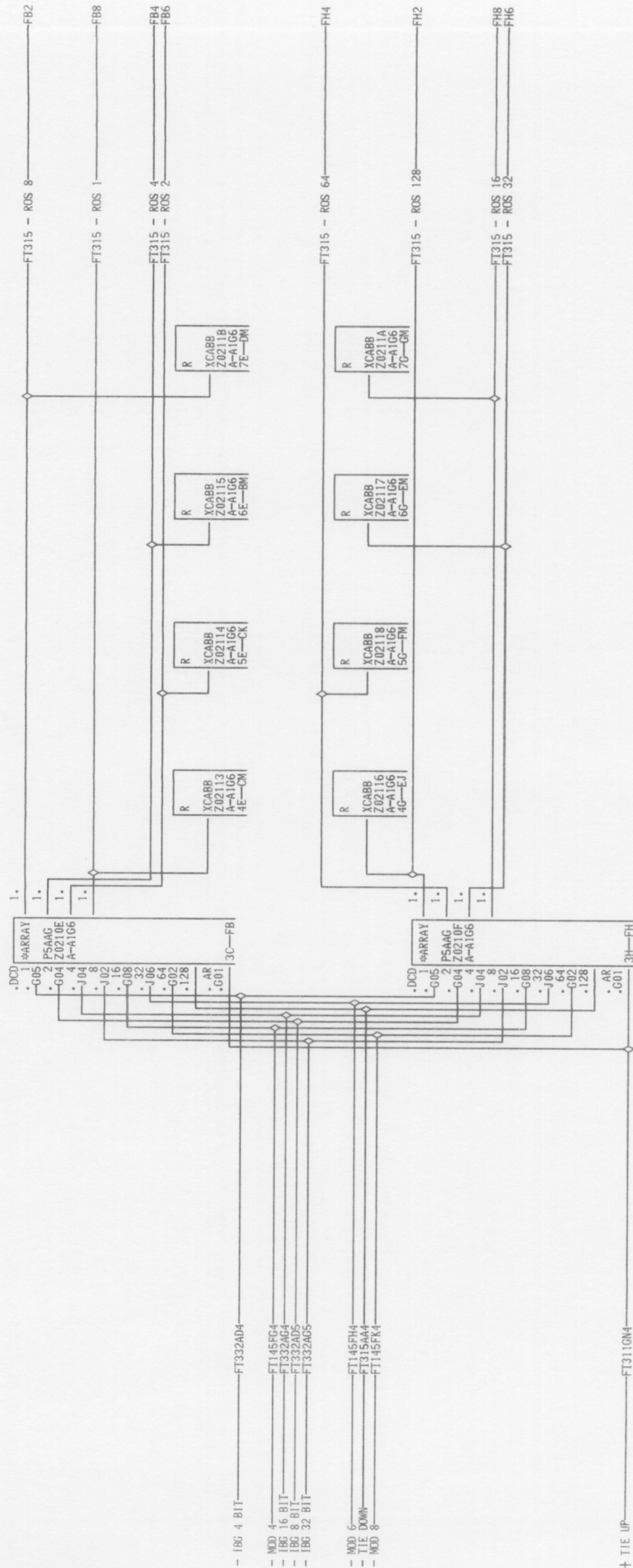
BIAS
XVHLM
Z02110
A-A1G6
7N-GN

FT313 + TIE UP

GN4

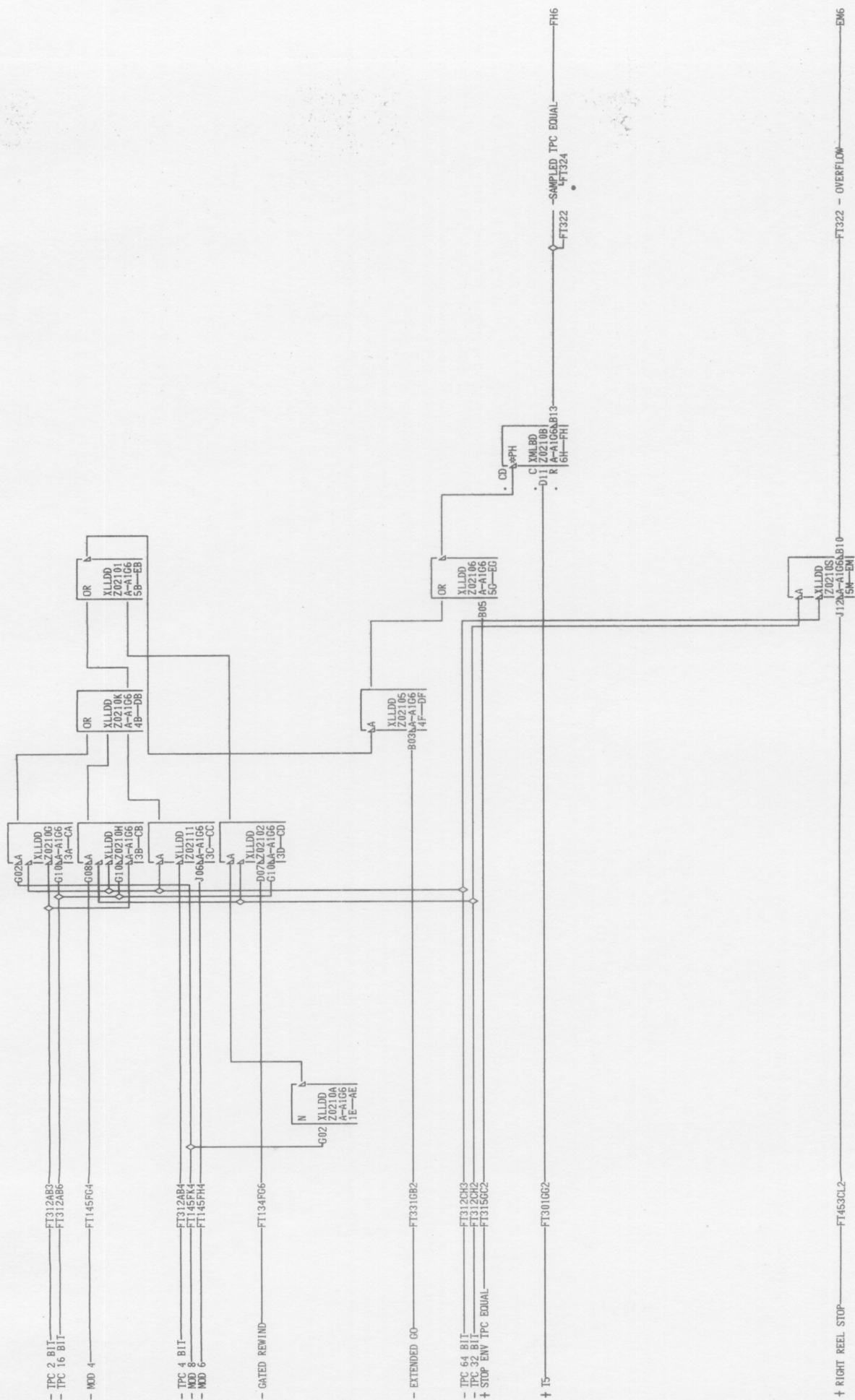
4 KHZ OSC	TACH PERIOD CTR	F
DATE	07-13-81	WACH. 3420-RP
LOG	0120 FRAME	01
	P.N.	1848111
IBM CORP.	SDD BLK.	000
	GP	

01-21-73 734800
04-27-73 734801
08-15-73 735811



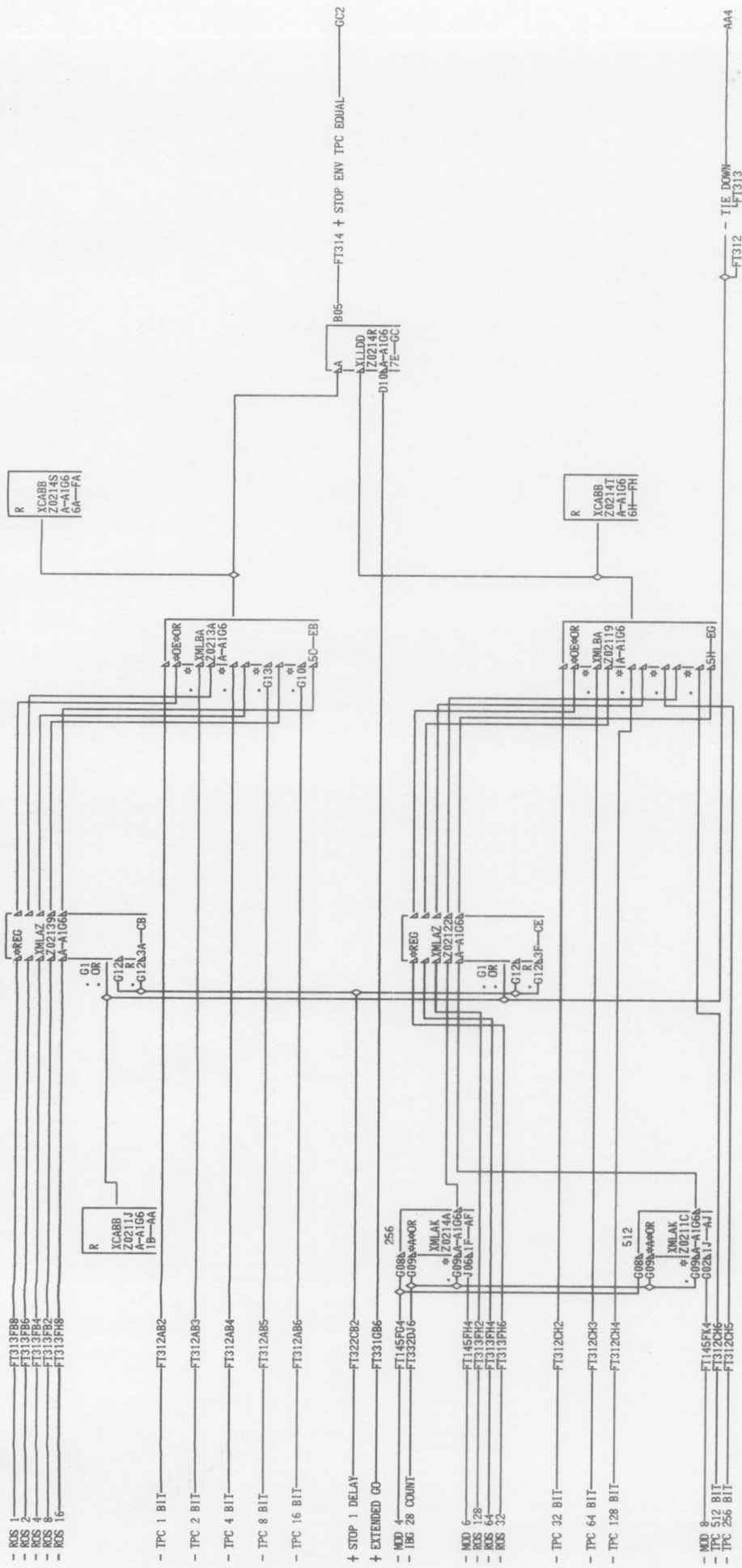
01-21-73 734800
04-27-73 734801

RDS			
DATE	07-13-81	MACH.	3420-RP
LOG	0118	FRAME	01 1 3
P.N.	1848113		
IBM CORP.	CO	BLK.	000
		GN	



01-21-73 734800
04-27-73 734801
06-14-73 735810
08-15-73 735811
10-10-73 735812

SAMPLED	TPC EQUAL
DATE	07-13-81 MACH. 3420-RP
LOG	0025 FRAME 01
	P.N. 1848114
IRM CORP.	GPD B/L
	F T I 3 1 4 000

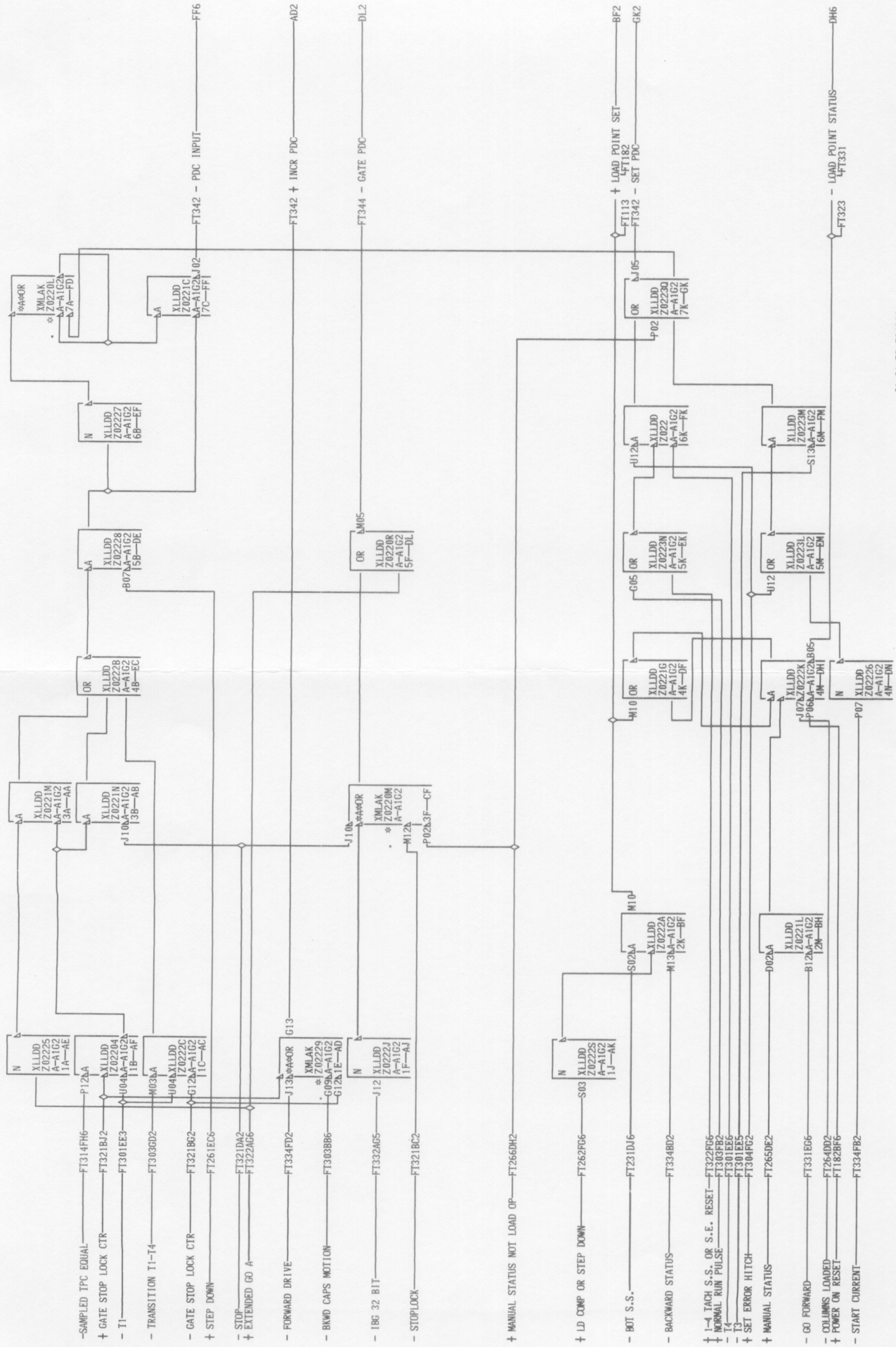


01-21-73 734800
04-27-73 734801
06-14-73 735810

TPC COMPARE	DATE	07-13-81	MACH.	3420-RP
	LOG	0119	FRAME	01
			P.N.	1848115
			IBM CORP.	CO BLK.
				000

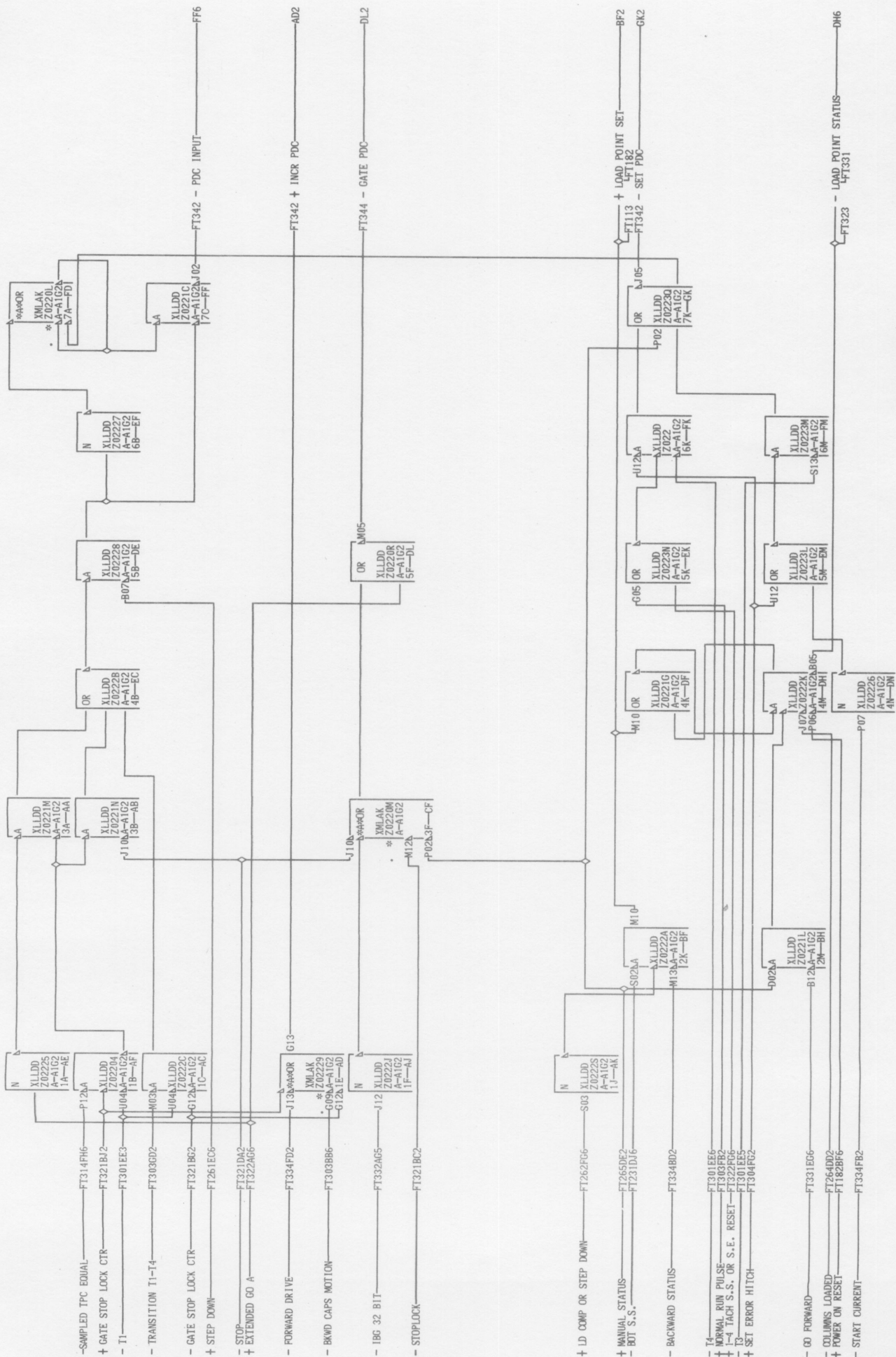


GATED EQUAL TP STOP DELAY		F	T	3	2	2	000
DATE	07-13-81 MACH. 3420-RP						HF
LOG	2876 FRAME 01						
	P.N. 1848118						
IRM CORP.	CO RIK.						



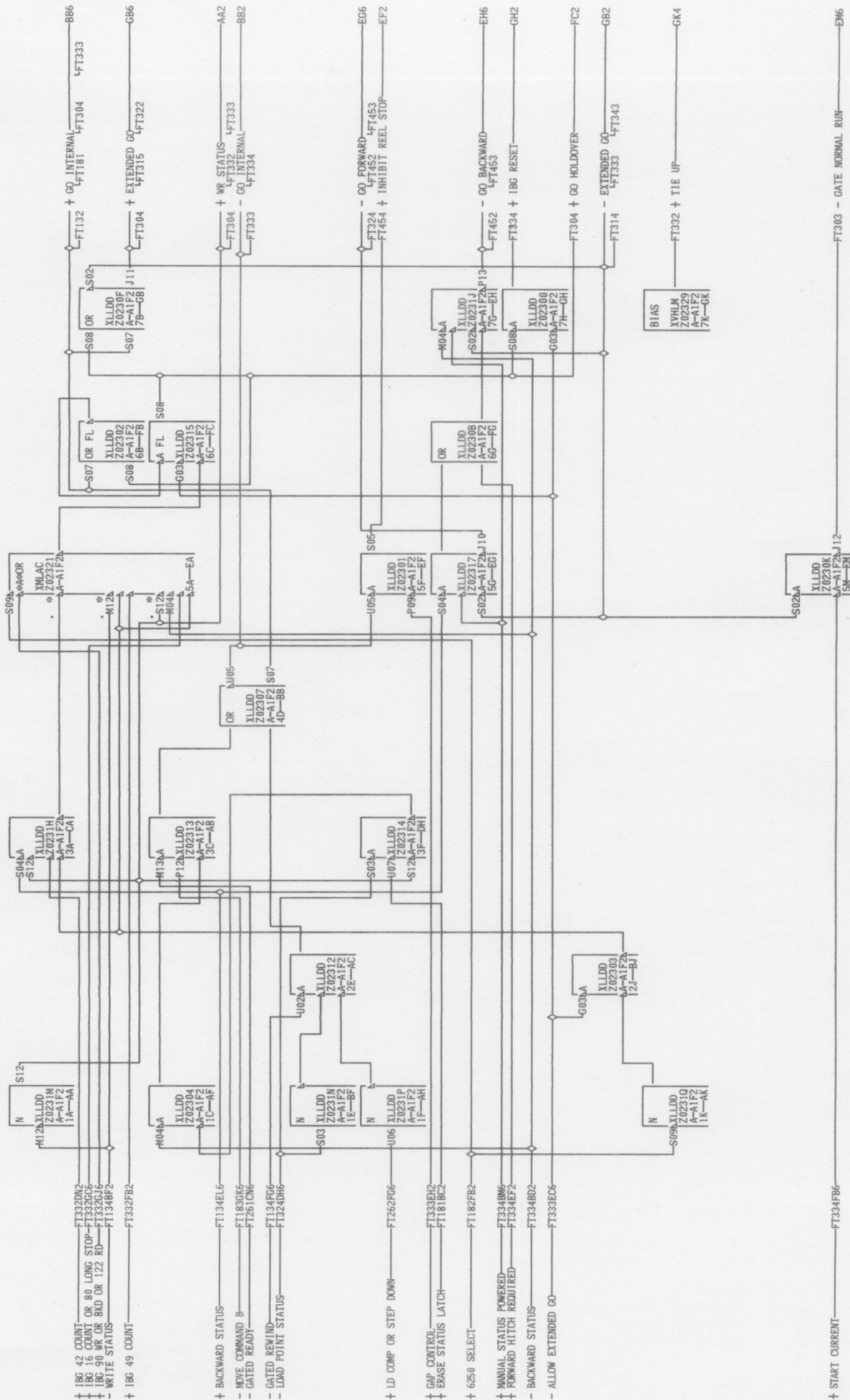
PROPORTIONAL DRIVE COUNTER	
DATE	01-25-83 MACH. 3420-RP
LOC	1674 FRAME 01
P.N.	1848120
IBW CORP.	CO BLK.

01-21-73 734800
04-27-73 734801
06-14-73 735810
08-15-73 735811
05-02-74 735816
10-21-81 847234



01-21-73 734800
04-22-73 734801
06-14-73 735810
08-15-73 735811
05-02-74 735816

PROPORTIONAL DRIVE COUNTER			
DATE	LOG	P.N.	000
07-13-81	0K68 FRAME	1848120	000
07-13-81	0K68 FRAME	1848120	000
07-13-81	0K68 FRAME	1848120	000
07-13-81	0K68 FRAME	1848120	000
07-13-81	0K68 FRAME	1848120	000

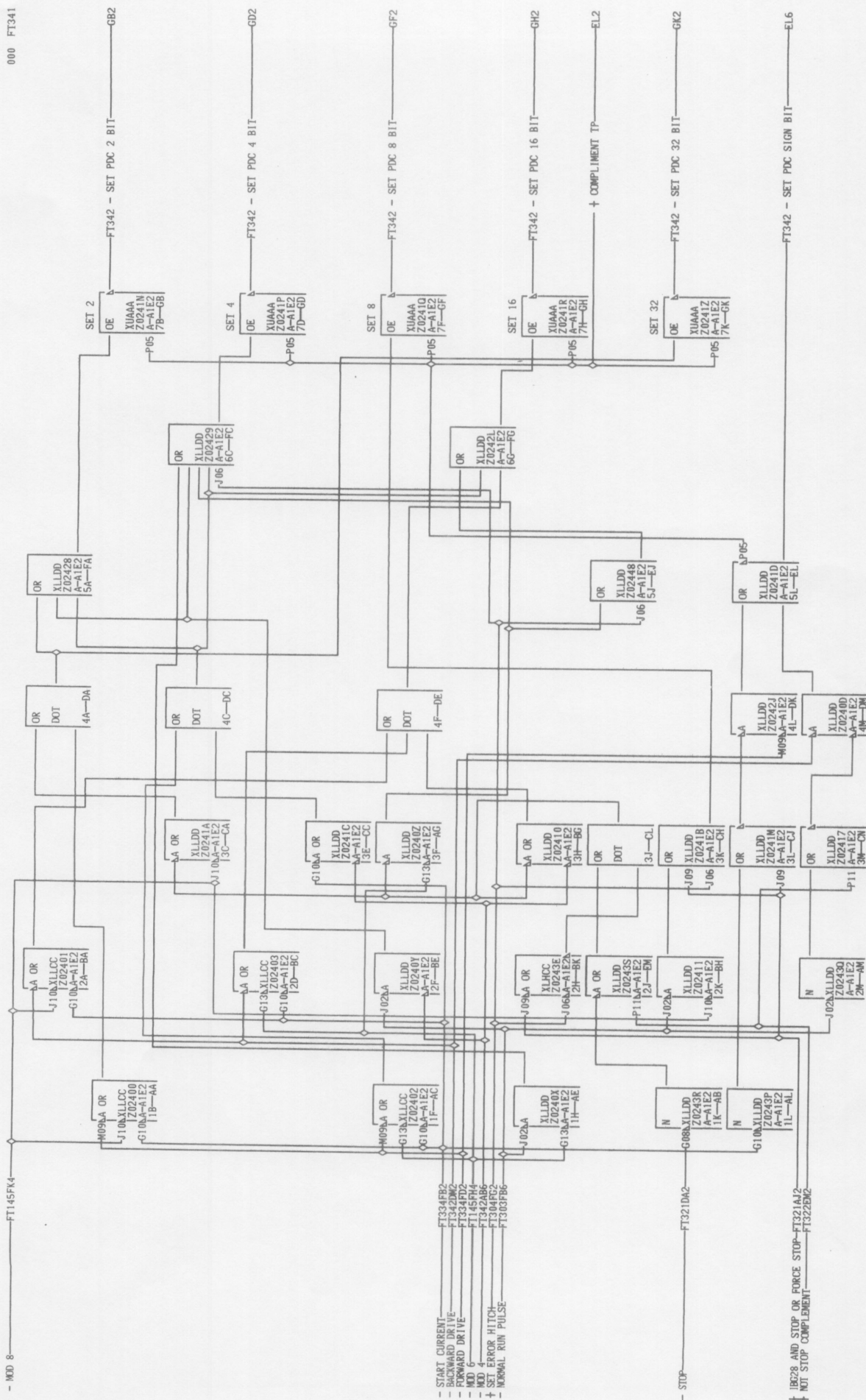


01-21-73 734800
04-27-73 734801
06-14-73 735810
08-13-75 443878
10-17-75 443935

GO GENERATION + LD PT LATCH	GO FWD - GO BWD	07-13-81 MACH. 3420-RP	LOG	7439 FRAME	01	P.N. 1848122	RM CORP.	CO RLY	000	F I 3 3 1
-----------------------------	-----------------	------------------------	-----	------------	----	--------------	----------	--------	-----	-----------

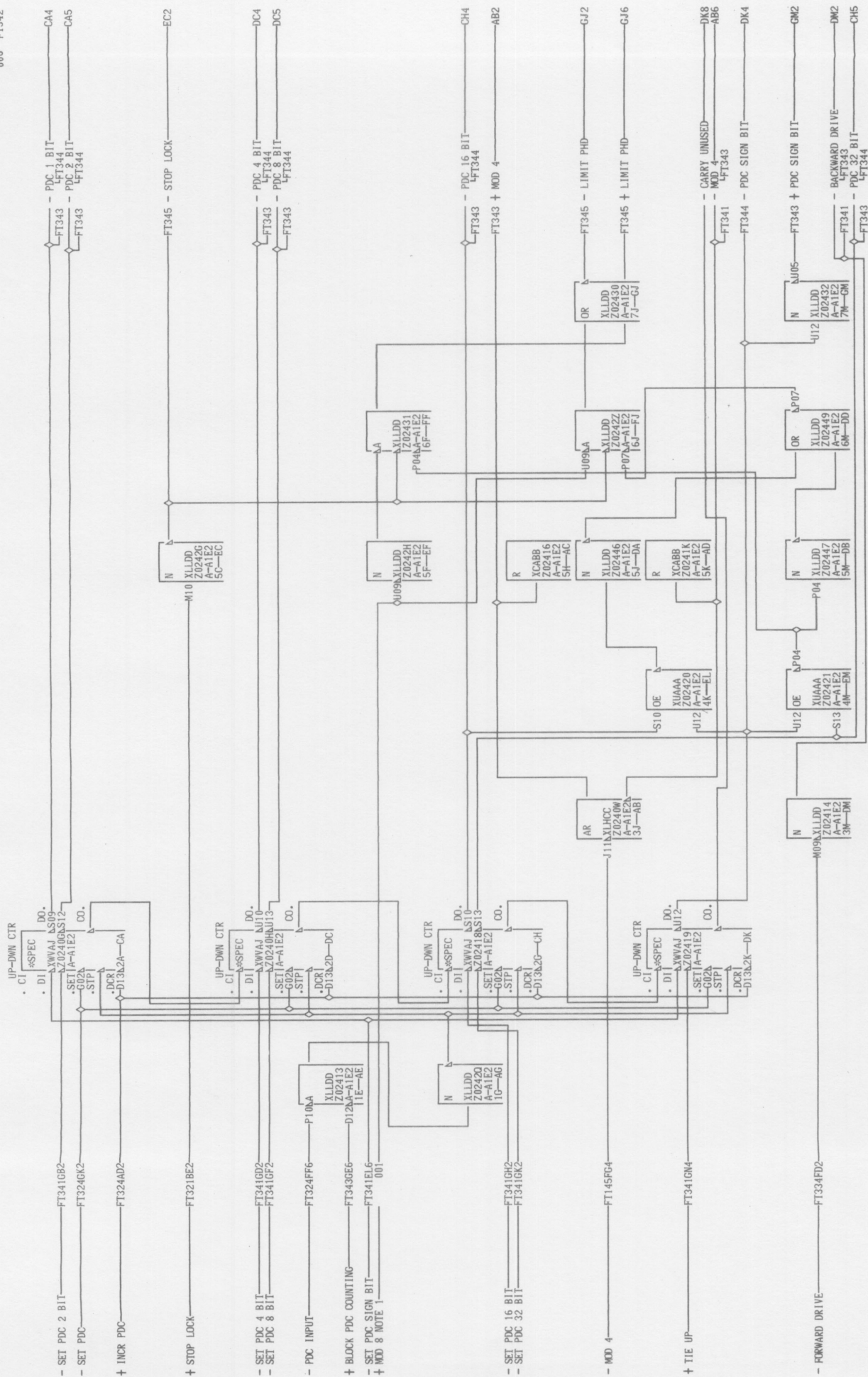


FORWARD HITCH CONTROLS				
DATE	03-08-83	MACH.	3420-RP	
LOG	333	FRAME	01	
		P.N.	1848125	
IBM CORP.		BLK.		
				GM
				000



BIAS	FT342 + TIE UP	GM4
XVHLM		
Z02427		
A-AIE2		
7N-GN		

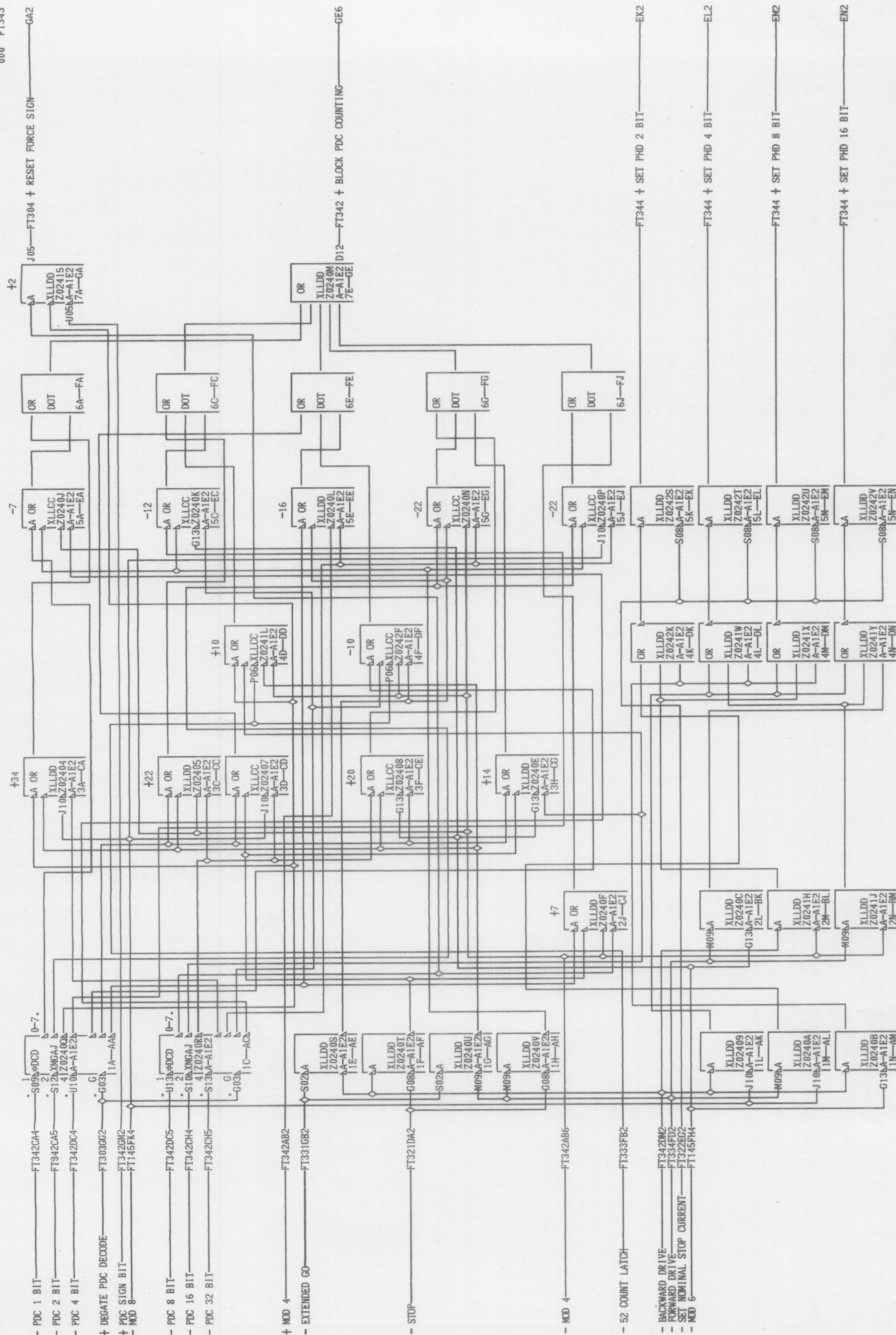
	PDC PRESET	F
01-21-73 734800	07-13-81 MACH. 3420-RP	2
04-27-73 734801		1
09-26-73 735810		1
10-15-73 735810		1
10-17-75 443335		1
10-17-75 443335		1
05-02-80 847216		1
	2876 FRAME	01
	P.N. 1848128	000
	CPTD R.K.	CP
	IBM CORP.	

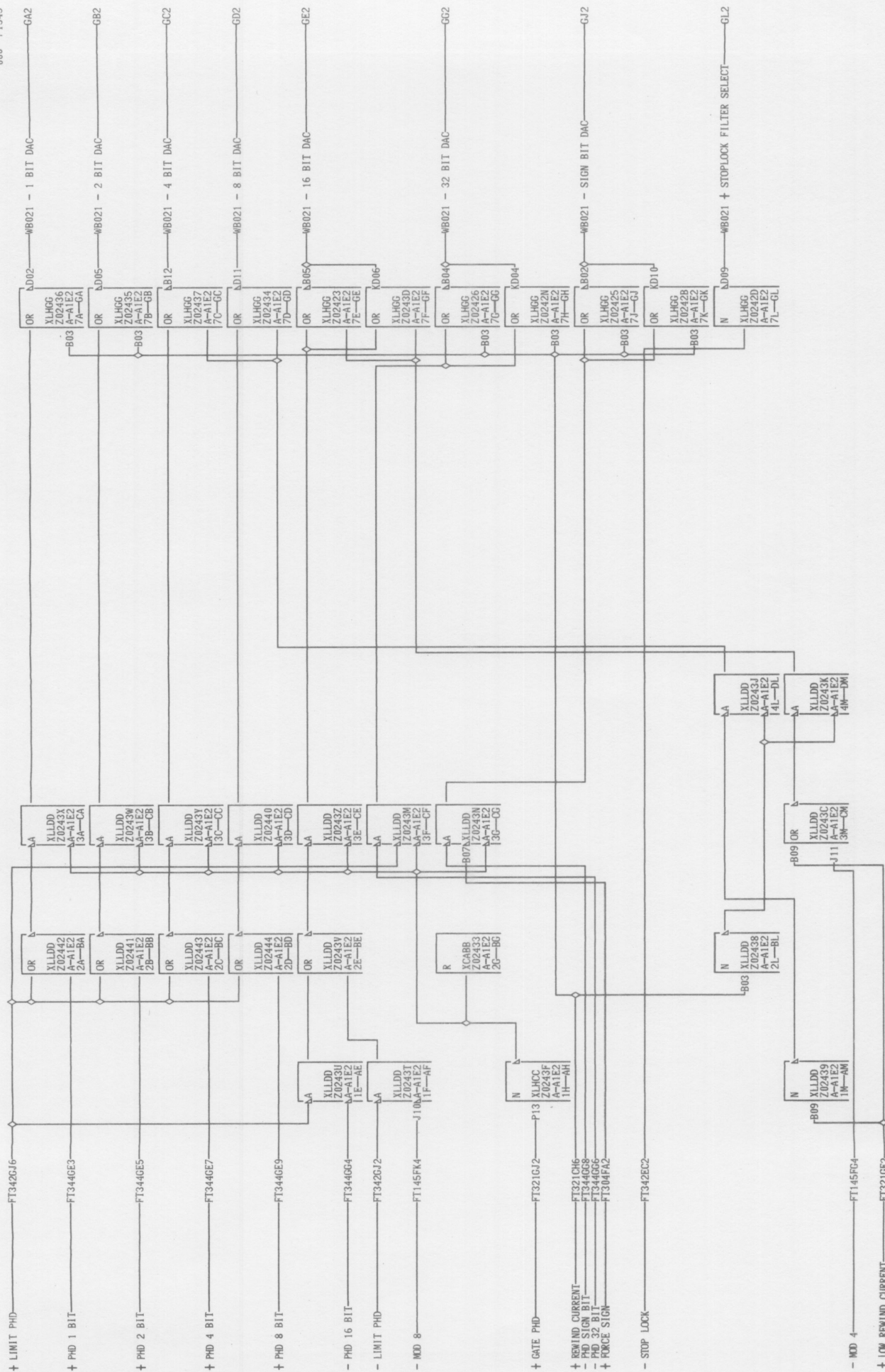


01-21-73 734800
04-27-73 734801
06-14-73 735810

NOTE 1
SEE 165106 FOR
F MODEL WIRING

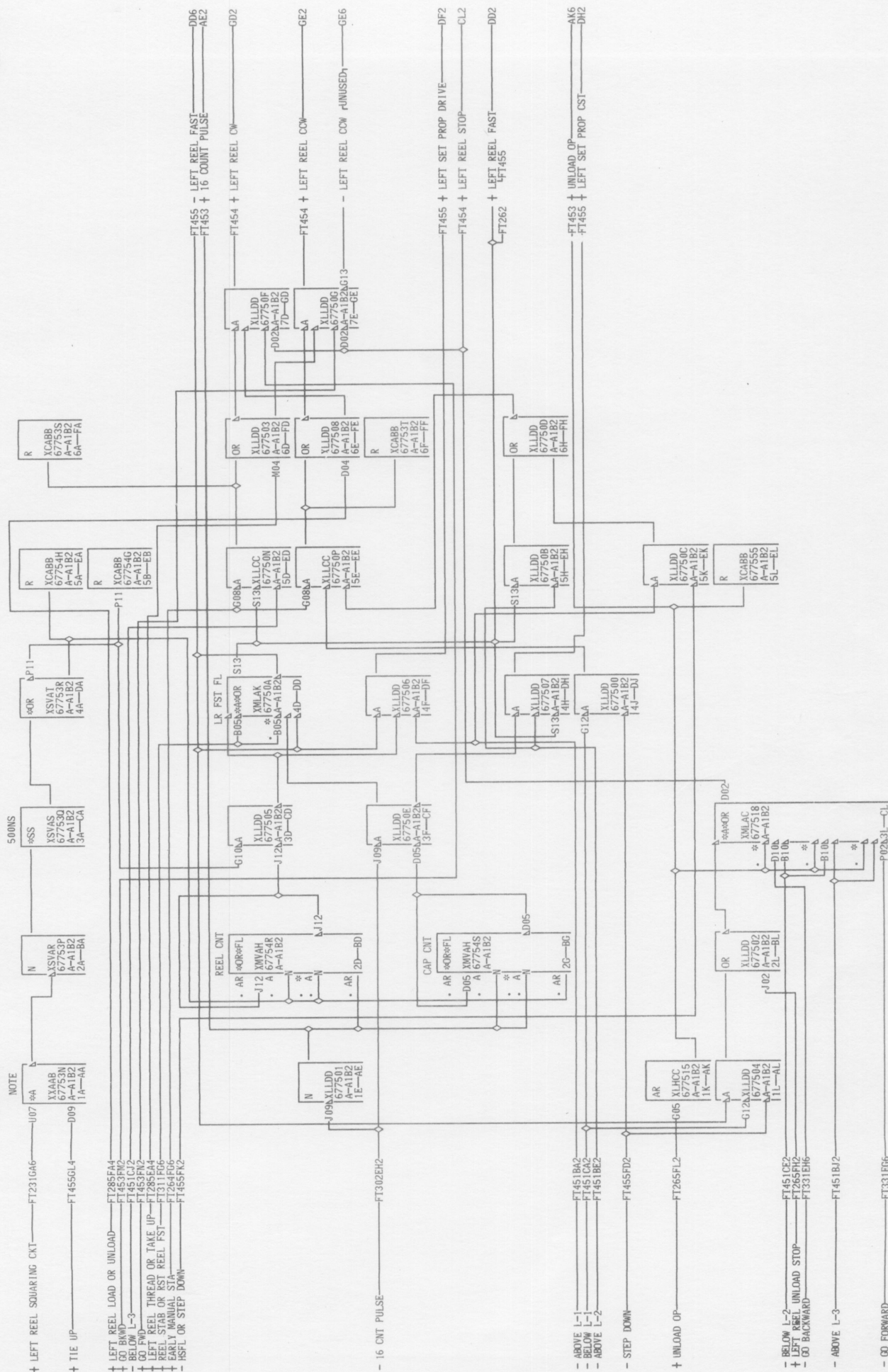
PDC COUNTER
DATE 07-13-81 MACH. 3420-RP
LOG 0119 FRAME 01
P.N. 1848129 000
IBM CORP. CO BLK. GN





04-27-73 734801
06-14-73 735810
03-01-74 735814

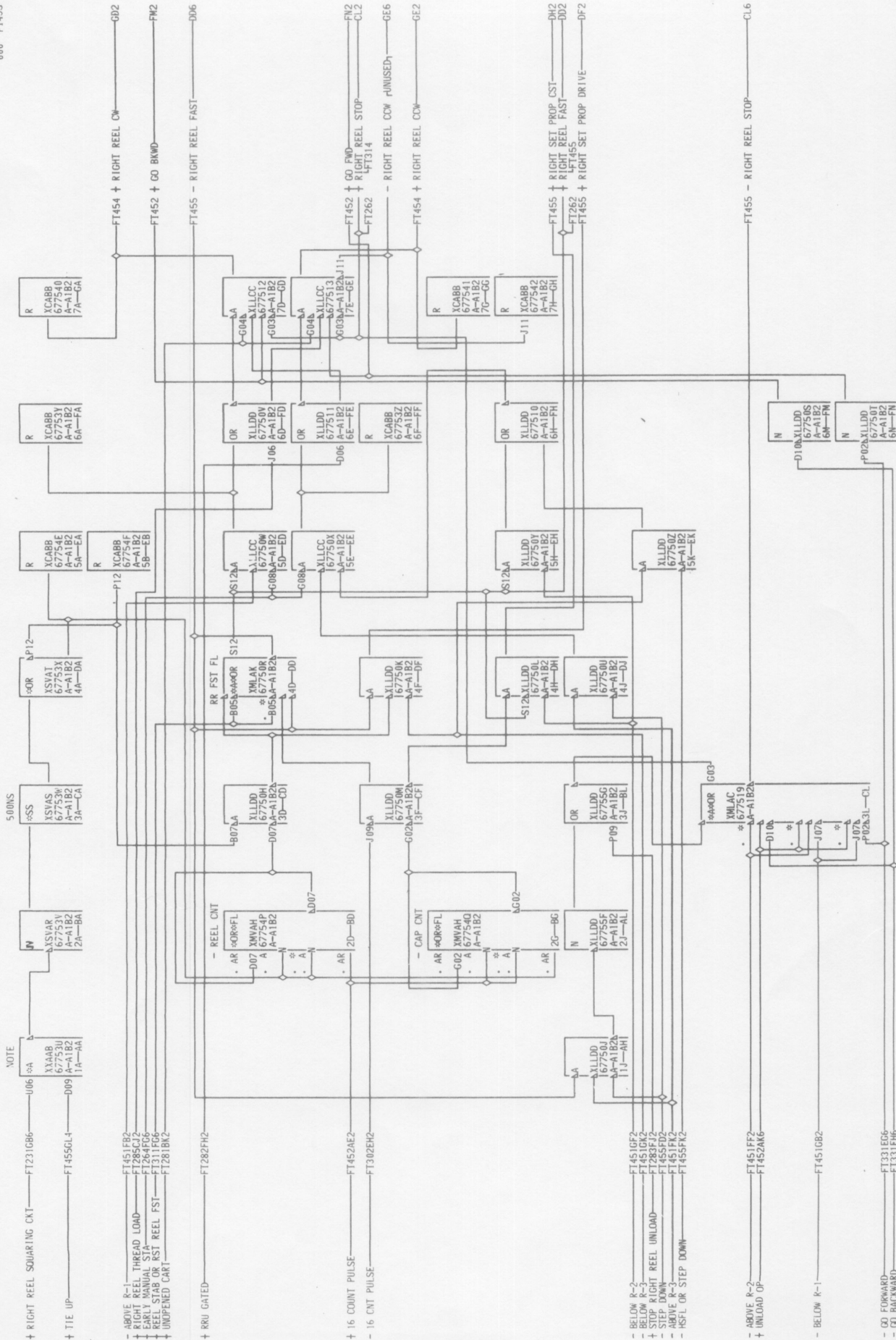
DAC GATING AND REWIND CONTROL				
DATE	07-13-81	MACH.	3420-RP	F 1 3 5
LOG	0680	FRAME	01	4
		P.N.	1848132	000
		IBM CORP.	GPD BLK.	CM



NOTE
SPECIAL LEVELS
F +6.0 TO GND AAB

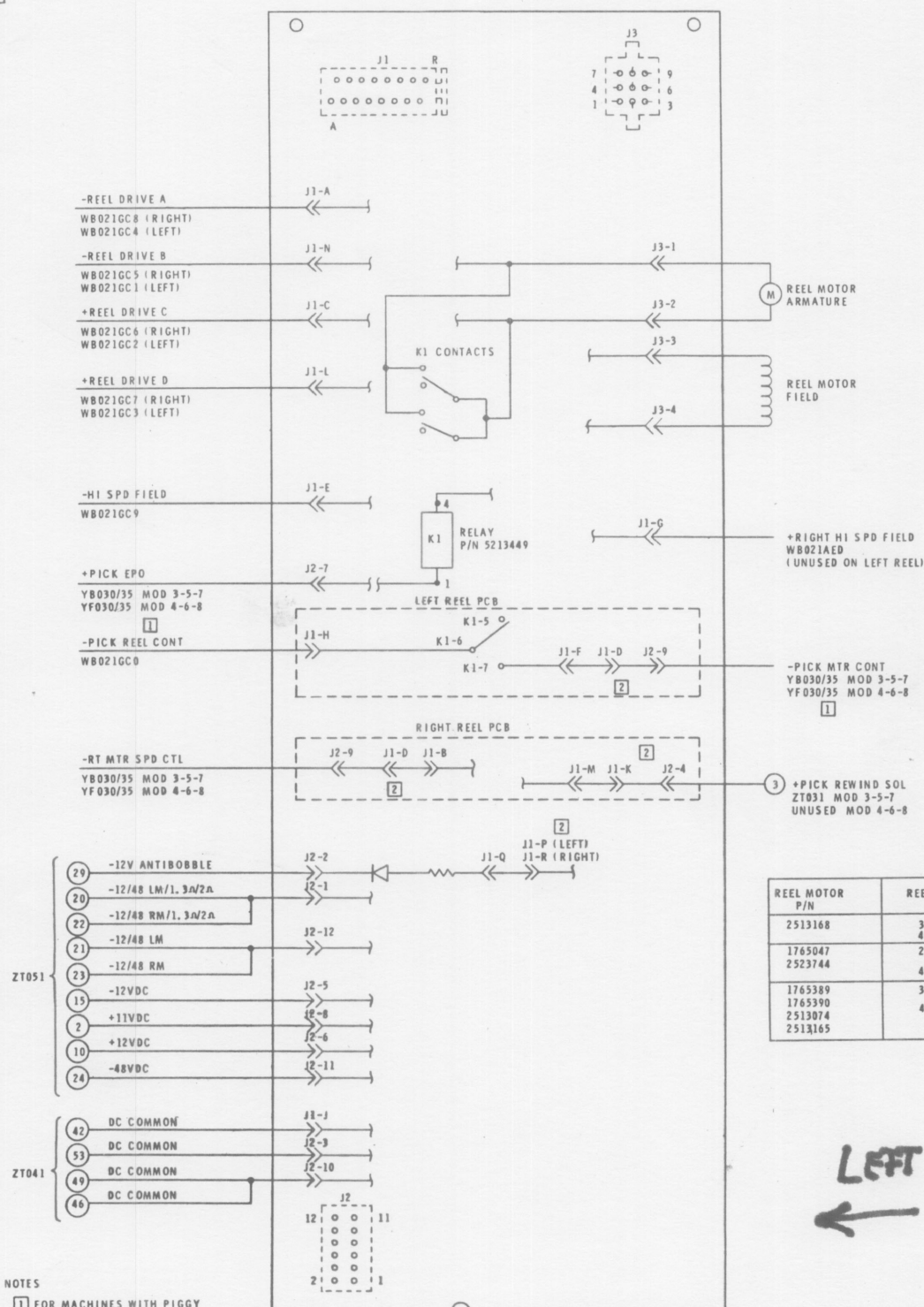
01-21-73 734800

DATE	07-13-81	MACH.	3420-RP	F	1	4	5	2	000
LOG	0117	FRAME	01						
		P.N.	1848134						
IBM CORP.	CO	BLK.	GJ						
LEFT REEL CONTROL									

01-21-73 734800
09-14-79 846437

RIGHT REEL CONTROL		F	T
DATE	07-13-81 MACH. 3420-RP	4	5
LOG	4810 FRAME	01	5
	P.N. 1848135	3	3
IRM CORP.	CO BILK.		000

REEL MOTOR BOARD
3420 ALL MODELS



- NOTES
- 1 FOR MACHINES WITH PIGGY BACK SUPPLIES
SEE YB040/45 MOD 3-5-7
YF040/45 MOD 4-6-8
 - 2 JUMPERS ARE ASSEMBLED ON PADDLE CARDS
 - 3 JUMPER WIRE ON THE REEL BOARD, PART NUMBER 4450016, MUST BE PLUGGED TO THE CORRECT POSITION FOR THE TYPE OF REEL MOTOR USED. SEE LABEL ON BOARD FOR INSTRUCTIONS.

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IBM					DATE	CHANGE NO		DATE	CHANGE NO
NAME	SYSTEM DIAGRAM REEL				22MAY80	846320			
MOTOR BOARD					12JUN81	846320C			
DESIGN	GS	7NOV79	SHT 1 OF 1						
DETAIL	GD1								
CHECK	AR	19JAN80	CLASSIFICATION	MUST CONFORM TO ENG SPEC			DEVELOPMENT NO		LOGIC PG NO
APPRO									



- 1 CONNECTOR LOCATIONS A1 AND A2 ARE ON WIRING GATE IN THE TESTER. CONNECTOR IN LOCATION N5 IS ON THE TAPE DRIVE LOGIC GATE. TESTER CABLE PLUGS INTO WIRING SIDE OF DRIVE LOGIC GATE POSITION N5.
- 2 TEST POINT IS TESTER SERVICE GROUND ON MOD 4, 6, 8

JOB#		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SCHEMATIC 3420 FIELD	140CT72	734303F			X PRINT TO ENG. SPEC. NO.	
	TESTER						
DESIGN	TGT FEB71 MODEL						
DETAIL	VLC 140CT72						
CHECK	GGK 140CT72 DRAW						
APPROV	H-BK 14SEP72 CHECK						T7001

- ZERO THRESH P	FT183D86	TO	7A-0A	GA1
- ZERO THRESH 0	FT183D86	TO	7A-0A	GA2
- ZERO THRESH 1	FT183D86	TO	7A-0A	GA3
- ZERO THRESH 2	FT183D86	TO	7A-0A	GA4
- ZERO THRESH 3	FT183D86	TO	7A-0A	GA5
- ZERO THRESH 4	FT183D86	TO	7A-0A	GA6
- ZERO THRESH 5	FT183D86	TO	7A-0A	GA7
- ZERO THRESH 6	FT183D86	TO	7A-0A	GA8
- ZERO THRESH 7	FT183D86	TO	7A-0A	GA9

- 6250 SELECT	FT182F86	TO	7C-0C	GC1
---------------	----------	----	-------	-----

- WRITE STATUS	FT183F62	TO	7C-0C	GC6
----------------	----------	----	-------	-----

+ 80 PER CENT THRESHOLD	FT181G02	TO	7C-0C	GF2
-------------------------	----------	----	-------	-----

+ 120 PER CENT THRESHOLD	FT181G02	TO	7C-0C	GF6
--------------------------	----------	----	-------	-----

+ P.E. AMP SET I.P. NOTE 1	001	TO	7C-0C	GC1
----------------------------	-----	----	-------	-----

NOTE 1
JUMPER AIN3B04 TO
P.E. AMP SET I.P. TO ADJUST
B.P. TO FACTORY ADJ.
1 ONLY

001 01A-AIN3B04 FT183D86 01A-AIL1E11 FT183EE6 01A-AIM1D11

FT181G02 FT183D86 01A-AIM1B11 FT183EE6 01A-AIM1C11

FT181G02 01A-AIL1A11 FT183F86 01A-AIM1C11

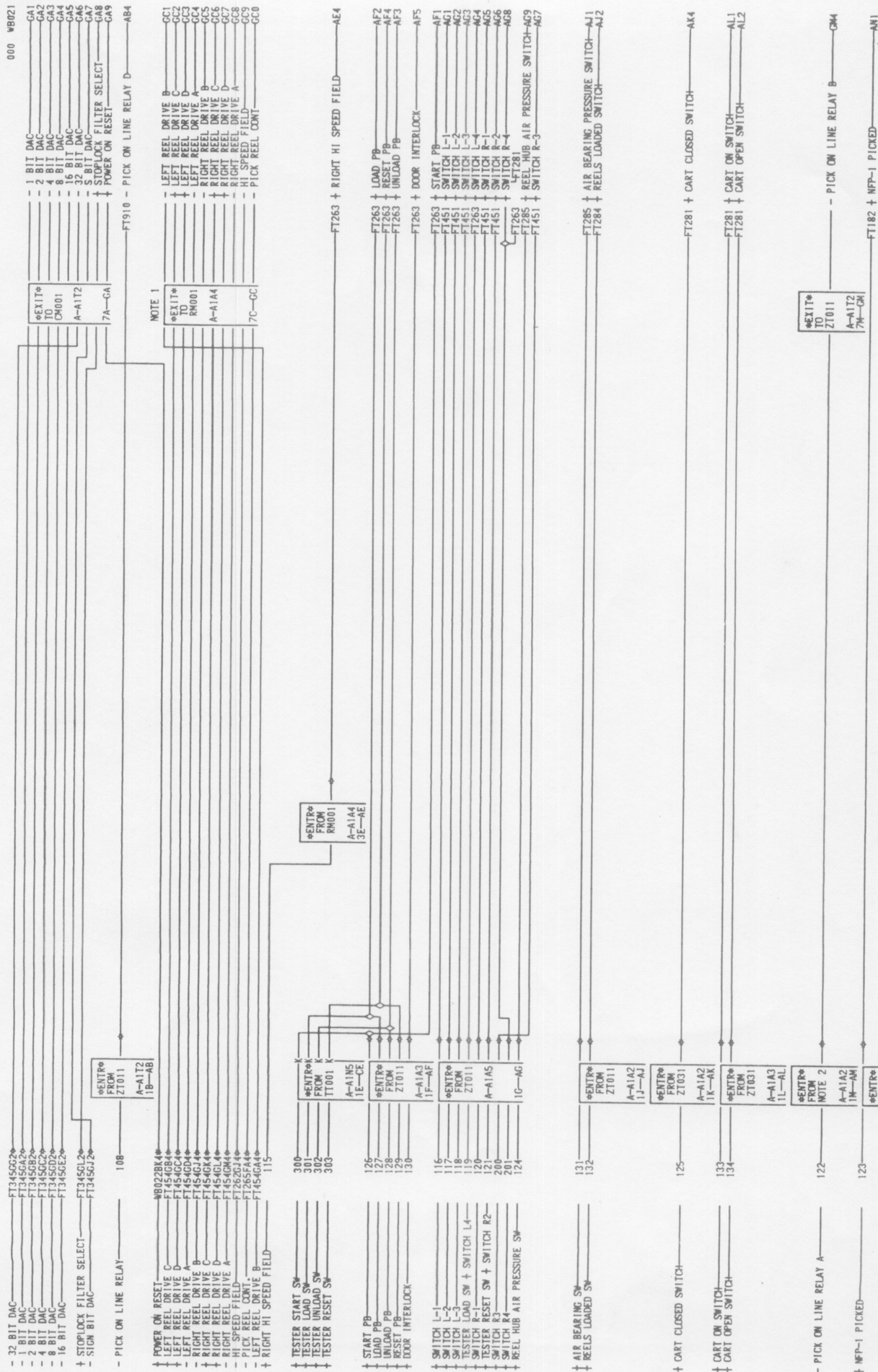
01A-AIN3D13 FT183D06 01A-AIL1A11 FT183F86 01A-AIM1D11

FT182F86 01A-AIL1B11 FT183F02 01A-AIM1D09

01A-AIM1C09 FT183D06 01A-AIL1C11 FT183F86

01-21-73 734800
06-14-73 735810

DATE	07-13-81	MACH.	3420-RP
LOG	0119	FRAME	01
P.N.	1848140		
IBM CORP.	CO	BLK.	GH

[illegible]

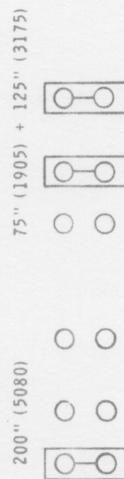
NOTE 1	01A-A1A2B04
PM4 EXISTS AT A2B10	01A-A1A2B05
8 GM4 EXISTS AT A2D05	01A-A1A2B06
0 NOTE 3	01A-A1A2B07
2 FROM VF6B OR VF05	01A-A1A2B08
4 FROM VF4B OR VF03	01A-A1A2B09
NOTE 4	01A-A1A2B10
0000F0K VF010 OR VF015	01A-A1A2B11
0000F0K VF630 OR VF035	01A-A1A2B12
	01A-A1A2B13
	01A-A1A2B14
	01A-A1A2B15
	01A-A1A2B16
	01A-A1A2B17
	01A-A1A2B18
	01A-A1A2B19
	01A-A1A2B20
	01A-A1A2B21
	01A-A1A2B22
	01A-A1A2B23
	01A-A1A2B24
	01A-A1A2B25
	01A-A1A2B26
	01A-A1A2B27
	01A-A1A2B28
	01A-A1A2B29
	01A-A1A2B30
	01A-A1A2B31
	01A-A1A2B32
	01A-A1A2B33
	01A-A1A2B34
	01A-A1A2B35
	01A-A1A2B36
	01A-A1A2B37
	01A-A1A2B38
	01A-A1A2B39
	01A-A1A2B40
	01A-A1A2B41
	01A-A1A2B42
	01A-A1A2B43
	01A-A1A2B44
	01A-A1A2B45
	01A-A1A2B46
	01A-A1A2B47
	01A-A1A2B48
	01A-A1A2B49
	01A-A1A2B50
	01A-A1A2B51
	01A-A1A2B52
	01A-A1A2B53
	01A-A1A2B54
	01A-A1A2B55
	01A-A1A2B56
	01A-A1A2B57
	01A-A1A2B58
	01A-A1A2B59
	01A-A1A2B60
	01A-A1A2B61
	01A-A1A2B62
	01A-A1A2B63
	01A-A1A2B64
	01A-A1A2B65
	01A-A1A2B66
	01A-A1A2B67
	01A-A1A2B68
	01A-A1A2B69
	01A-A1A2B70
	01A-A1A2B71
	01A-A1A2B72
	01A-A1A2B73
	01A-A1A2B74
	01A-A1A2B75
	01A-A1A2B76
	01A-A1A2B77
	01A-A1A2B78
	01A-A1A2B79
	01A-A1A2B80
	01A-A1A2B81
	01A-A1A2B82
	01A-A1A2B83
	01A-A1A2B84
	01A-A1A2B85
	01A-A1A2B86
	01A-A1A2B87
	01A-A1A2B88
	01A-A1A2B89
	01A-A1A2B90
	01A-A1A2B91
	01A-A1A2B92
	01A-A1A2B93
	01A-A1A2B94
	01A-A1A2B95
	01A-A1A2B96
	01A-A1A2B97
	01A-A1A2B98
	01A-A1A2B99
	01A-A1A2B00

NOTE 1	
INTERRUPT IN	FT141GJ40
INTERRUPT IN	CM2
TACH+BUSY IN	FT141GJ40
TACH+BUSY IN	CM6

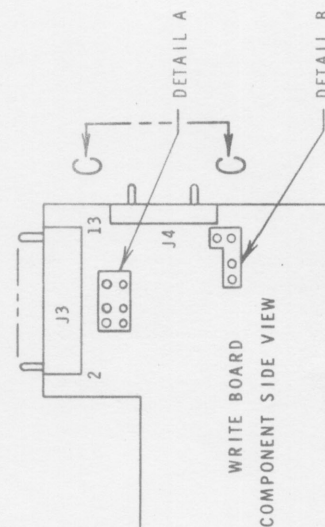
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DATE	LOG	0119 FRAME	01
AND F.E.: TESTER	P.N.	1846950	
07-13-81 MACH.	CO	BLK.	GN
3420-RP			
W K O O I 000			

WRITE DRIVER



DETAIL A
JUMPER CHART
FOR P/N 1845791 + 1845815



VIEW C-C

- VIEW C-C
- GROUND SERVICE J3D04, J3D06,
AND J3D08
-4 VOLT SERVICE J3D10, AND
J3D05
-12 VOLT SERVICE J3D09
+12 VOLT NFP-1 PICKED
J3D02, AND J3D03
+6 VOLT SERVICE J3D12

DETAIL B

JUMPER CHART
FOR P/N 1845792 + 1845799

IBM			
NAME	WRITE DRIVER AND ERASE		
HEAD DRIVER CARD REF			
DESIGN	DBK		STANDARDS CODE
DETAIL	GGK	140CT72	
CHECK			C
APPRO	N-DK	100CT73	

DATE	CHANGE NO.	DATE	CHANGE NO.
14OCT72	734303F		
17FEB73	734780		
5MAY73	734804		
9JUN73	735627		
22MAY80	846320		

NOTE
X PRINT TO ENG. SPEC. NO.

DEVELOPMENT NO.	1766781
XW001	

CAUTION

Refer to the chart below to make sure you use the correct Power Supply Logic page.

Type	60 Hz	60 Hz Piggyback		50 Hz	50 Hz Piggyback
Power Supply P/N	1767834 1767836	1767850	1767917	1767833 1767835	1767849 1767918
Logic Page Name	Logic Page P/N	Logic Page P/N	Logic Page P/N	Logic Page P/N	Logic Page P/N
YC021	2524488	1845798	1845798	2524488	1845798
YF010	NA	1767851	1767919	NA	NA
YF015	NA	NA	NA	NA	1767857
YF020	1767837	1767852	1767920	NA	NA
YF025	NA	NA	NA	1767839	1767858
YF030	1767838	1767853	1767921	NA	NA
YF035	NA	NA	NA	1767840	1767859
YF036	1767841	NA	NA	1767841	NA
YF040	NA	1767854	1767922	NA	NA
YF045	NA	NA	NA	NA	1767860
YF050	NA	1767855	1767855	NA	NA
YF055	NA	NA	NA	NA	1767861
YF060	NA	1767856	1767856	NA	1767856
ZT051	1766789	1845796	1845796	1766789	1845796

3420 Models 4, 6, 8

YA001 Seq 1 of 2	4449681 Part Number	846320 1 Feb 80	847861A 8 Jan 82					
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CAUTION

Refer to the chart below to make sure you use the correct Power Supply Logic page.

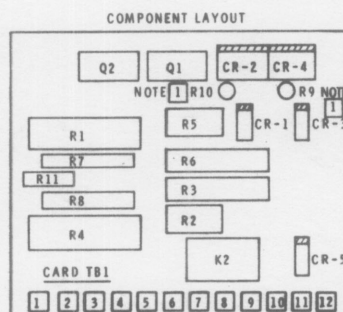
Type	60 Hz	60 Hz Piggyback		50 Hz	50 Hz Piggyback
Power Supply P/N	1767834 1767836	1767850	1767917	1767833 1767835	1767849 1767918
Logic Page Name	Logic Page P/N	Logic Page P/N	Logic Page P/N	Logic Page P/N	Logic Page P/N
YC021	2524488	1845798	1845798	2524488	1845798
YF010	NA	1767851	1767919	NA	NA
YF015	NA	NA	NA	NA	1767857
YF020	1767837	1767852	1767920	NA	NA
YF025	NA	NA	NA	1767839	1767858
YF030	1767838	1767853	1767921	NA	NA
YF035	NA	NA	NA	1767840	1767859
YF036	1767841	NA	NA	1767841	NA
YF040	NA	1767854	1767922	NA	NA
YF045	NA	NA	NA	NA	1767860
YF050	NA	1767855	1767855	NA	NA
YF055	NA	NA	NA	NA	1767861
YF060	NA	1767856	1767856	NA	1767856
ZT051	1766789	1845796	1845796	1766789	1845796

3420 Models 4, 6, 8

YA001 Seq 2 of 2	4449681 Part Number	846320 1 Feb 80	847861A 8 Jan 82					
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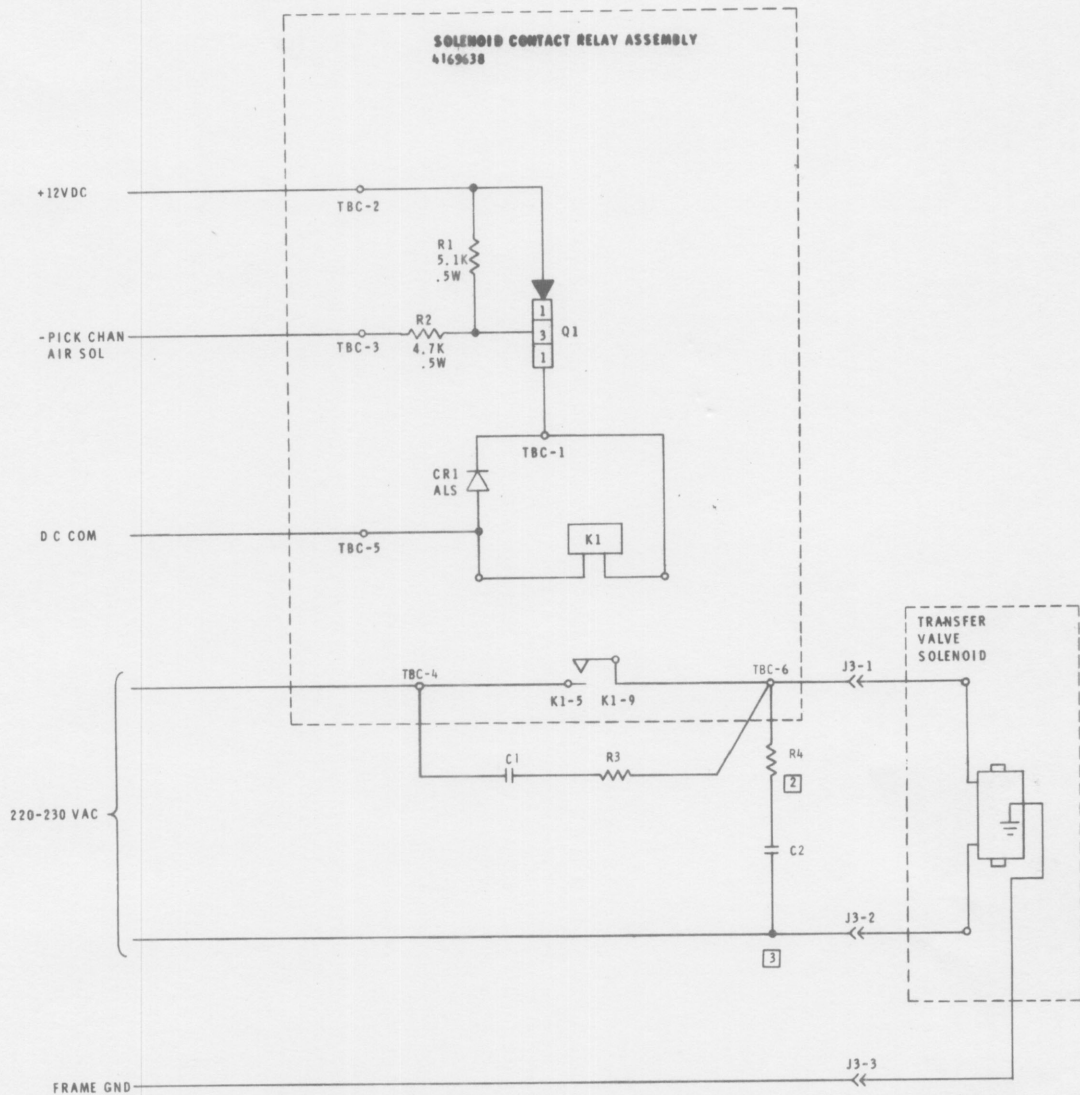
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POWER SUPPLY PART NUMBER	MSC PART NUMBER
1767035 1767036 2522039 2522040	2523105
1767033 1767034 2522037 2522038	2524604



1 RESISTOR R9 AND R10 NOT PRESENT
ON PART NUMBER 2524604

IBM				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME REFERENCE DIAGRAM				31OCT70	733501 C	22MAY80	846320	X PRINT TO ENG. SPEC. NO.	2522488
MANUAL STATUS CARD (MSC)				7JAN71	733501 W				
DESIGN		MODEL		IBMART	733520				
DETAIL	D.D.A.	31OCT70		11AUG71	733966				
CHECK				4NOV72	734749				
APPRO		DRAW							YCO21



NOTE

1. ADDITIONAL DETAIL FOR LOGICS YF020 AND YF025
2. C1, R3, R4, ASM-P/N 4169597
C2-P/N 5252836
MOUNTING BRACKET P/N 4169598
JUMPER P/N 4169600
3. SEE LOGIC PAGE YF020 OR YF025 FOR WIRING CONNECTION

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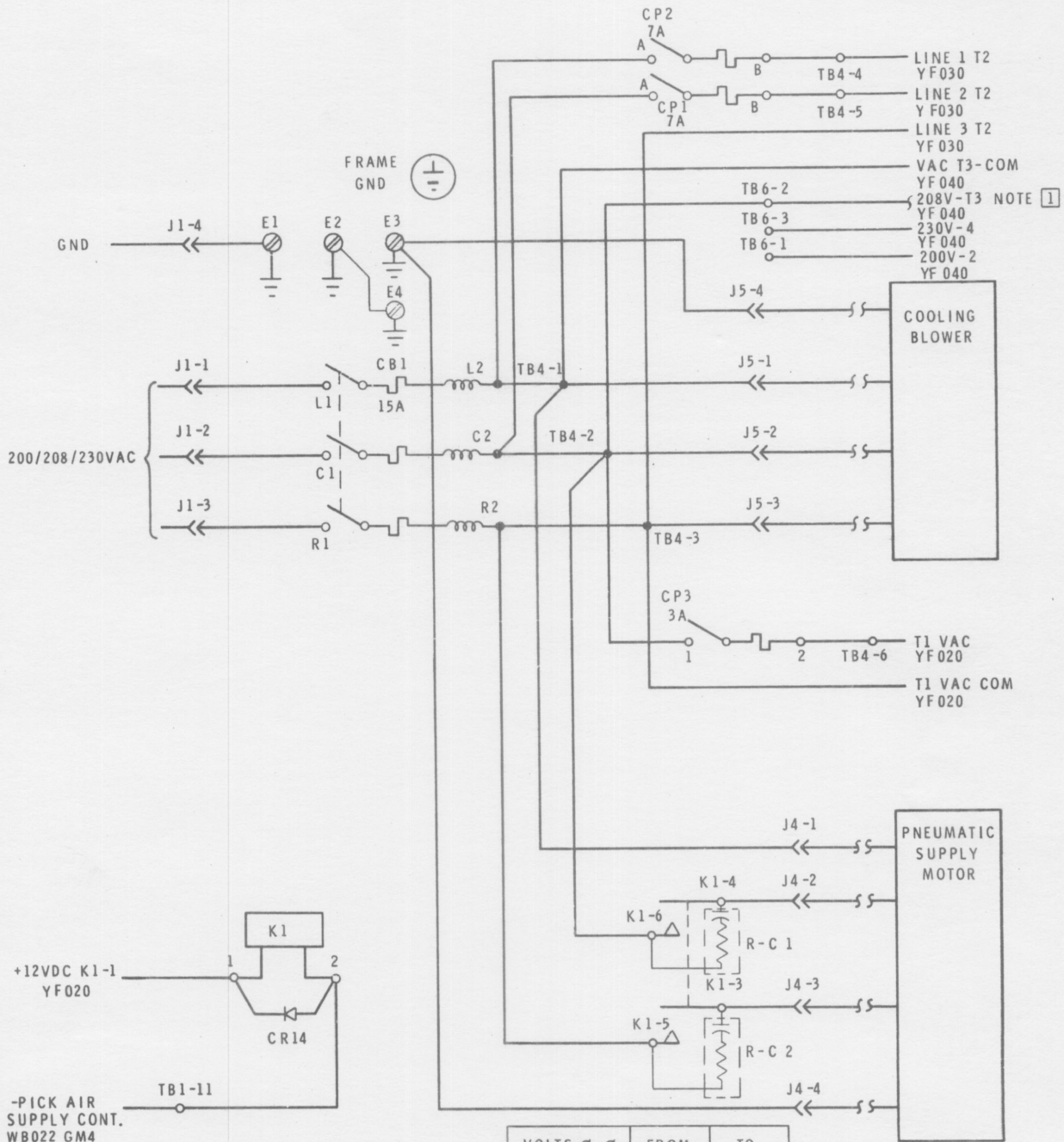
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	TRANSFER VALVE			14OCT72	734303F	31MAR76	443022
	SOLENOID DRIVE			19JUN73	735624		
DESIGN	DK	7JUL71	SHT OF	19JUN74	736683A		
DETAIL	VLG	14OCT72		16 MAY 75	443870		
CHECK	LLK	14OCT72	CLASSIFICATION	MUST CONFORM TO ENG SPEC		LOGIC PG. NO	
APPRO			N-DK	30AUG72		YC031	

1767851

1767851

YF 010

PRIMARY POWER 60HZ

3420 MOD 004, 006 PIGGYBACK
FOR POWER SUPPLY P/N 1767850

NOTES

- 1 LOGIC SHOWS CONN FOR 208 VAC OPERATION. SEE TABLE FOR CONN FOR 200 OR 230 VAC OPERATION

- 2 SIMILAR TO P/N 2515557

VOLTS Ø-Ø	FROM	TO
200	TB4-2	TB6-1
208	TB4-2	TB6-2
230	TB4-2	TB6-3

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626-0021-000

IBM			
NAME	SYSTEMS DIAGRAM		
DESIGN	AC 60HZ		
DETAIL	JWS 28JUN72	STANDARDS CODE	
CHECK	ER		
APPRO	N-ER/3FE873		

C

01046

DATE	CHANGE NO.	DATE	CHANGE NO.
28JUN72	734305B		
12SEP72	734305C		
4MAY73	734499		
22MAY80	846320		

NGTE
X PRINT TO ENG. SPEC. NO.

DEVELOPMENT NO.

YF 010

1767851

STANDARDS
CODE

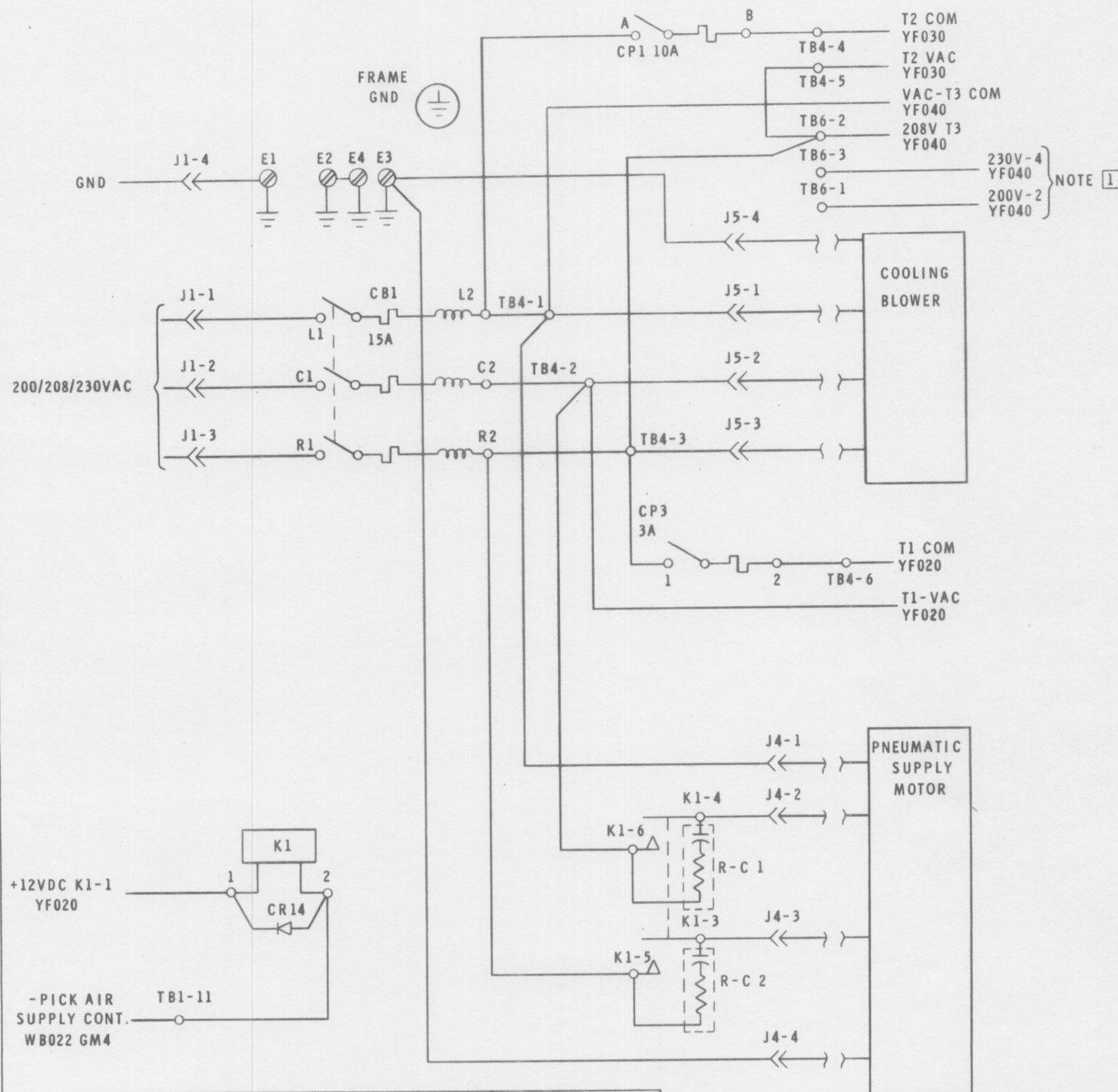
CARD CODE

1767919

YF010

PRIMARY POWER 60HZ

3420-004-006-008 PIGGYBACK
FOR POWER SUPPLY P/N 1767917



VOLTS $\emptyset$ - $\emptyset$	FROM	TO	FROM	TO	LEAD #
200	TB4-3	TB6-1	TB4-5	TB6-1	DISCRETE JUMPER
208	TB4-3	TB6-2	TB4-5	TB6-2	DISCRETE JUMPER
230	TB4-3	TB6-3	TB4-5	TB6-3	DISCRETE JUMPER

NOTES

- 1 LOGIC SHOWS CONN FOR 208 VOLT
OPERATION. SEE TABLE FOR CONN
FOR ALL OTHER VOLTAGES
- 2 SIMILAR TO PART NUMBER 2515557

CIRCUIT AND PACKAGING STANDARD

APPROVAL	DATE
----------	------

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM				1MAY73	734499					
AC 60HZ				12NOV73	734958					
DESIGN	ECH	1MAY73	MODEL	22MAY80	846320					
DETAIL	D	MAY73	SCALE							
CHECK	ECH		DRAW							
APPROV	J.F.	12NOV73	CHECK							YF010

00-0277-0 MAR 8 700000:00

C

DRAFTING MEDIA GRAPHIC CONTROLS CORPORATION, Buffalo, New York Printed in U.S.A. STOCK NO. W8897 18748

01044

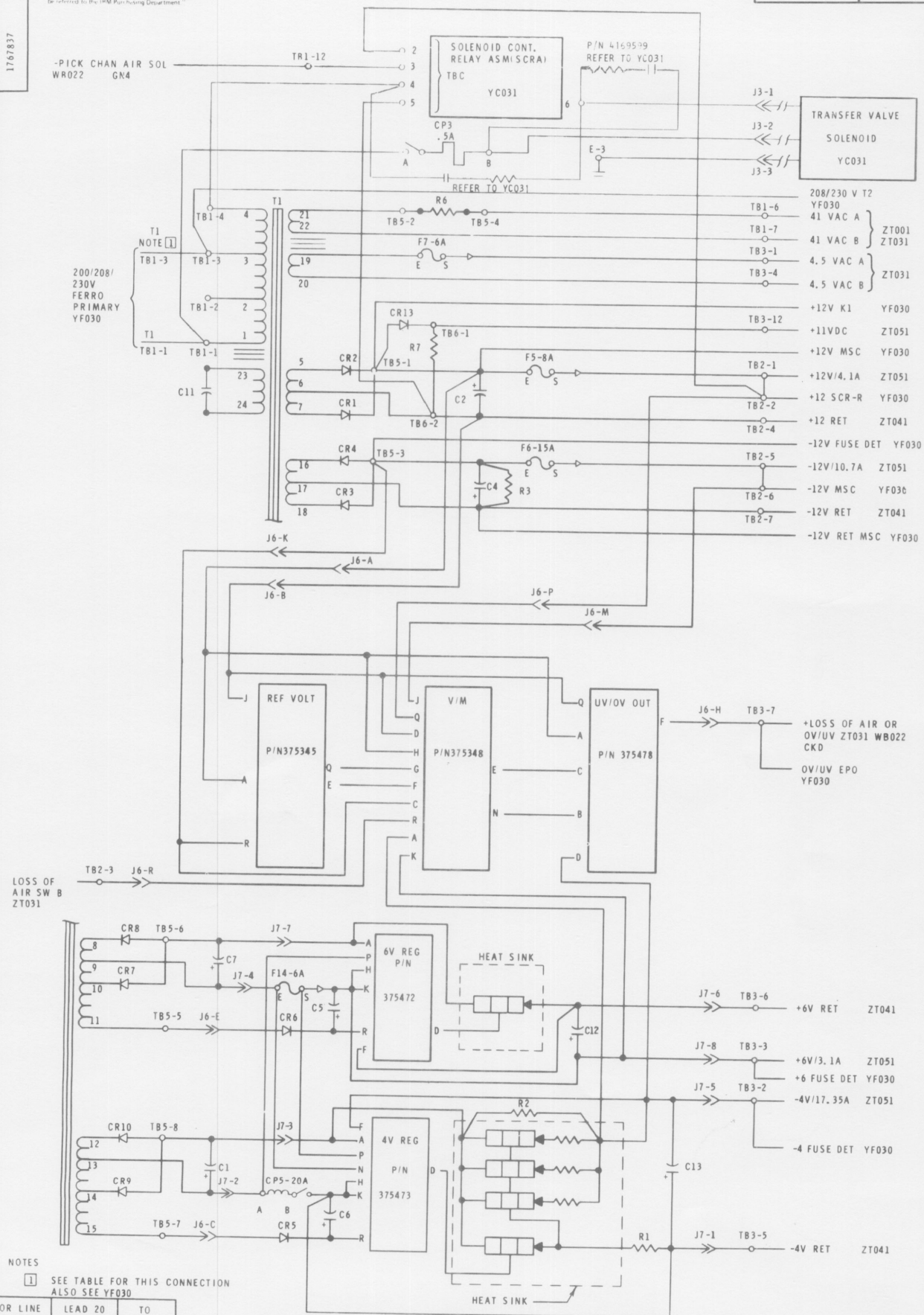
1767837

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D C SUPPLY 60HZ FOR POWER SUPPLY P/N 1767834, 1767836

PART NO
1767837

LOGIC PG NO
YF020



NOTES

1 SEE TABLE FOR THIS CONNECTION
ALSO SEE YF030

FOR LINE VOLTAGE	LEAD 20 FROM YF030	TO T1
200	TB4-3	TB1-2
208	TB4-3	TB1-3
230	TB4-3	TB1-4

FOR LINE VOLTAGE	LEAD 13 FROM T1	TO T2 YF030
200	TB1-3	TB7-2
208	TB1-3	TB7-2
230	TB1-4	TB7-3

2 SIMILAR TO PART NUMBER 2523061

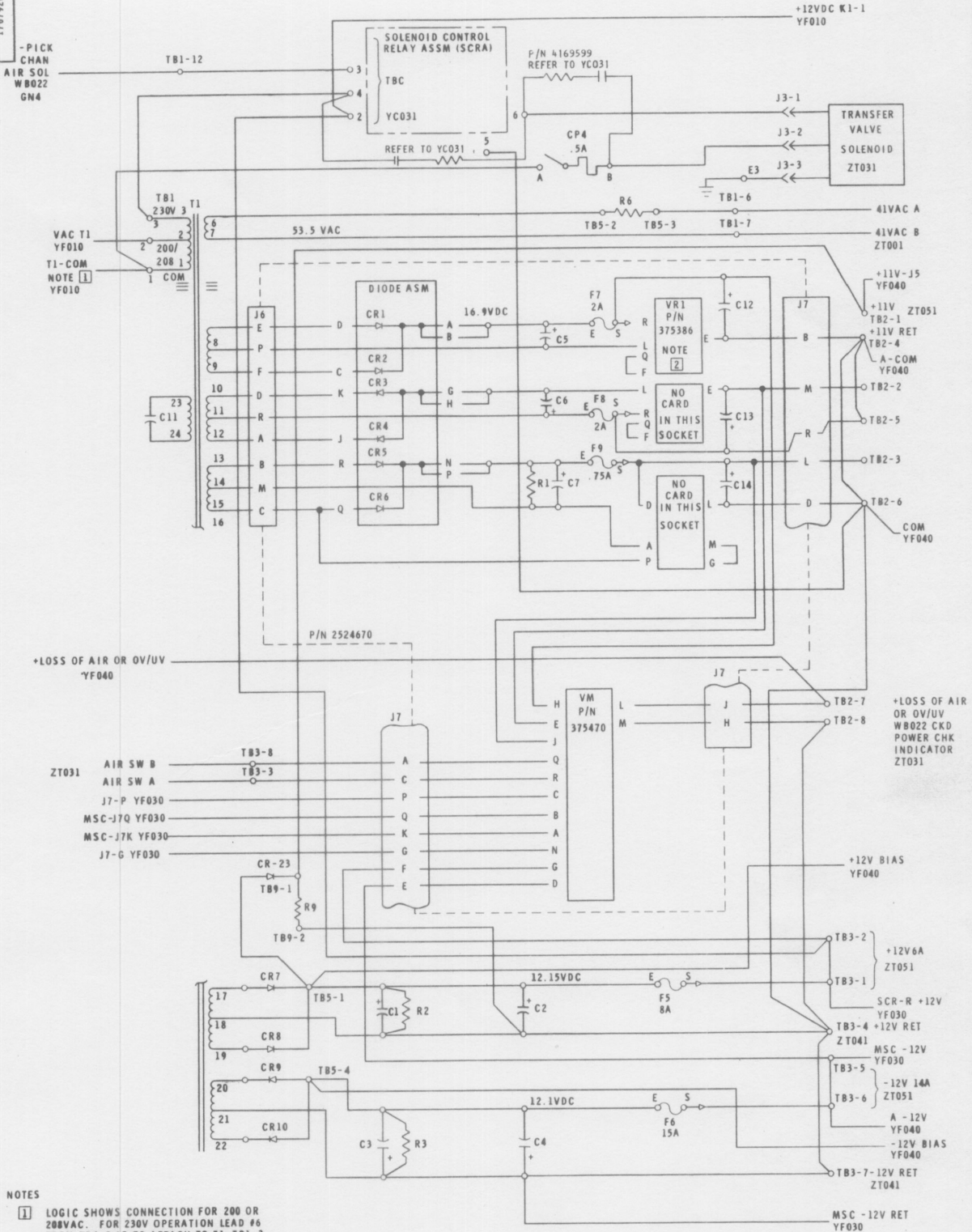
IBM				DATE		CHANGE NO		DATE		CHANGE NO	
NAME DRIVE D.C. 60HZ				15MAY72		734305A		25SEP73		734487	
				12SEP72		734305C		23 MAR 76		449022	
DESIGN ECH		SHT 1 OF 1		81AN73		734491		22MAY80		846320	
DETAIL RMF		15MAY72		21MAR73		734497					
CHECK YLC		20MAY72		CLASSIFICATION MUST CONFORM TO ENG SPEC				DEVELOPMENT NO		LOGIC PG NO	
APPRO		N - ER 7MAR73								YF020	

1767920

DC SUPPLY 60HZ
3420-004-006-008 PIGGYBACK
FOR POWER SUPPLY PART NUMBER 1767917

PART NO
1767920

LOGIC PG NO
YF020



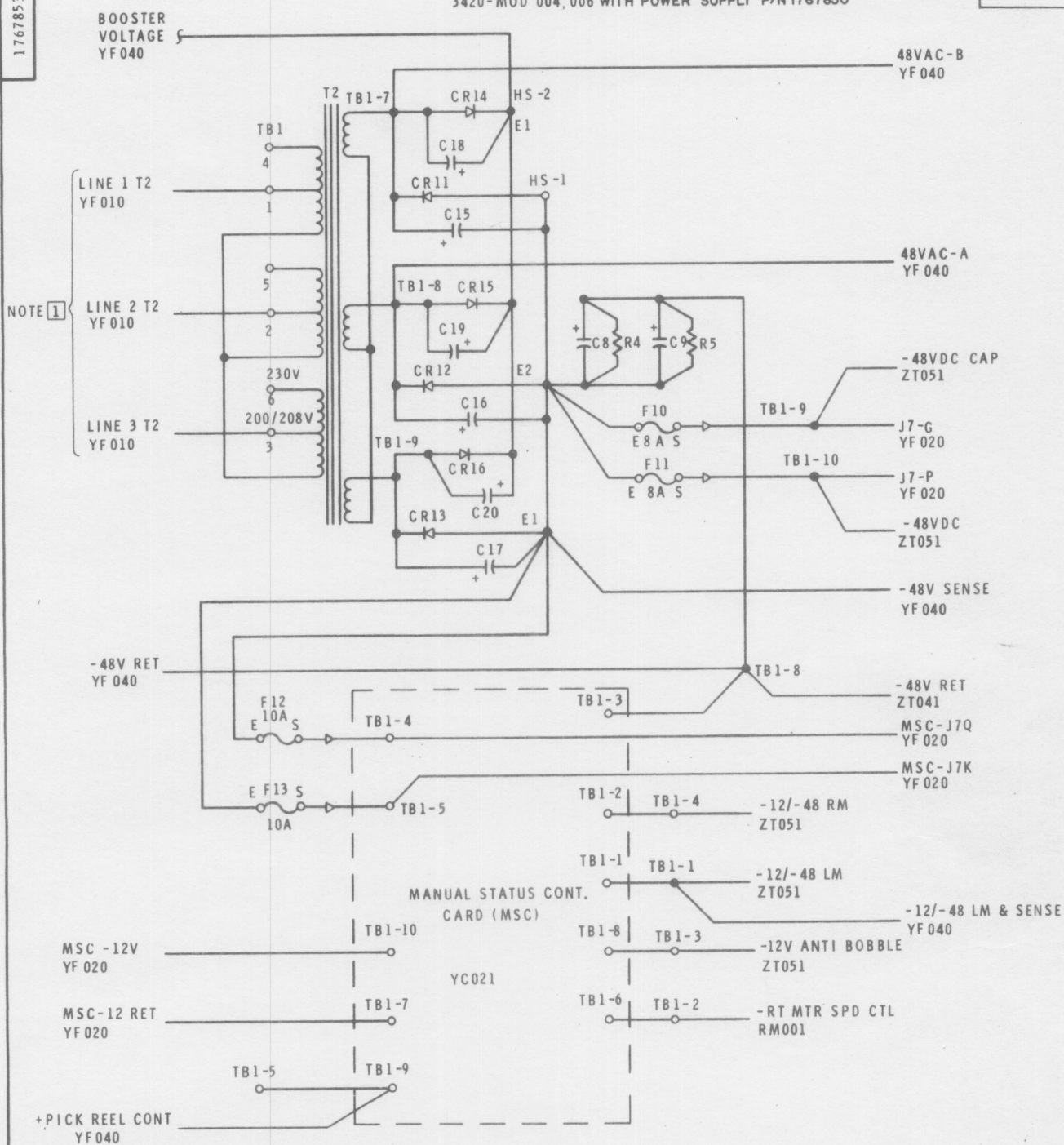
- NOTES
- LOGIC SHOWS CONNECTION FOR 200 OR 208VAC. FOR 230V OPERATION LEAD #6 FROM TB4-2 IS TO ATTACH TO T1-TB1-3, ALSO SEE YF010, YF030
 - OLD CARD PART NUMBER 374546-USE AS IS
 - SIMILAR TO PART NUMBER 2515558

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				8MAY73	734499		
DESIGN				23MAR76	449022		
DETAIL				22MAY80	846320		
CHECK							
APPRO							
CLASSIFICATION				MUST CONFORM TO ENG SPEC			
N-ECH				DEVELOPMENT NO			
				LOGIC PG NO			
				YF020			

VOLTAGE	MEASURED ACROSS
16.9VDC -0% +18%	C5
12.15VDC ±6%	C1, C2
12.1VDC ±7%	C3, C4
53.5 VAC ±15%	TB5-2 TO TB1-7

3420-MOD 004, 006 WITH POWER SUPPLY P/N 1767850



NOTES

- 1 LOGIC SHOWS CONNECTION FOR 200 OR 208 VOLT
OPERATION SEE TABLE FOR 230 VOLT OPERATION
- 2 SIMILAR TO PART NUMBER 2515555

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FROM	TO-T2
TB4-3	TB1-6
TB4-4	TB1-4
TB4-5	TB1-5

be referred to the IBM Purchasing Department.				DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE X PRINT TO ENG. SPEC. NO.	DEVELOPMENT NO.		1767853
IBM				28 JUN 72		734305 B									
NAME SYSTEMS DIAGRAM 48V 60HZ				4 MAY 73		734499									
DESIGN ECH				STANDARDS CODE		10 FEB 77		449067							
DETAIL JWS		28 JUN 72													
CHECK ES						22 MAY 80		846320						YF 030	
APPRO N - I M		21 MAR 73													

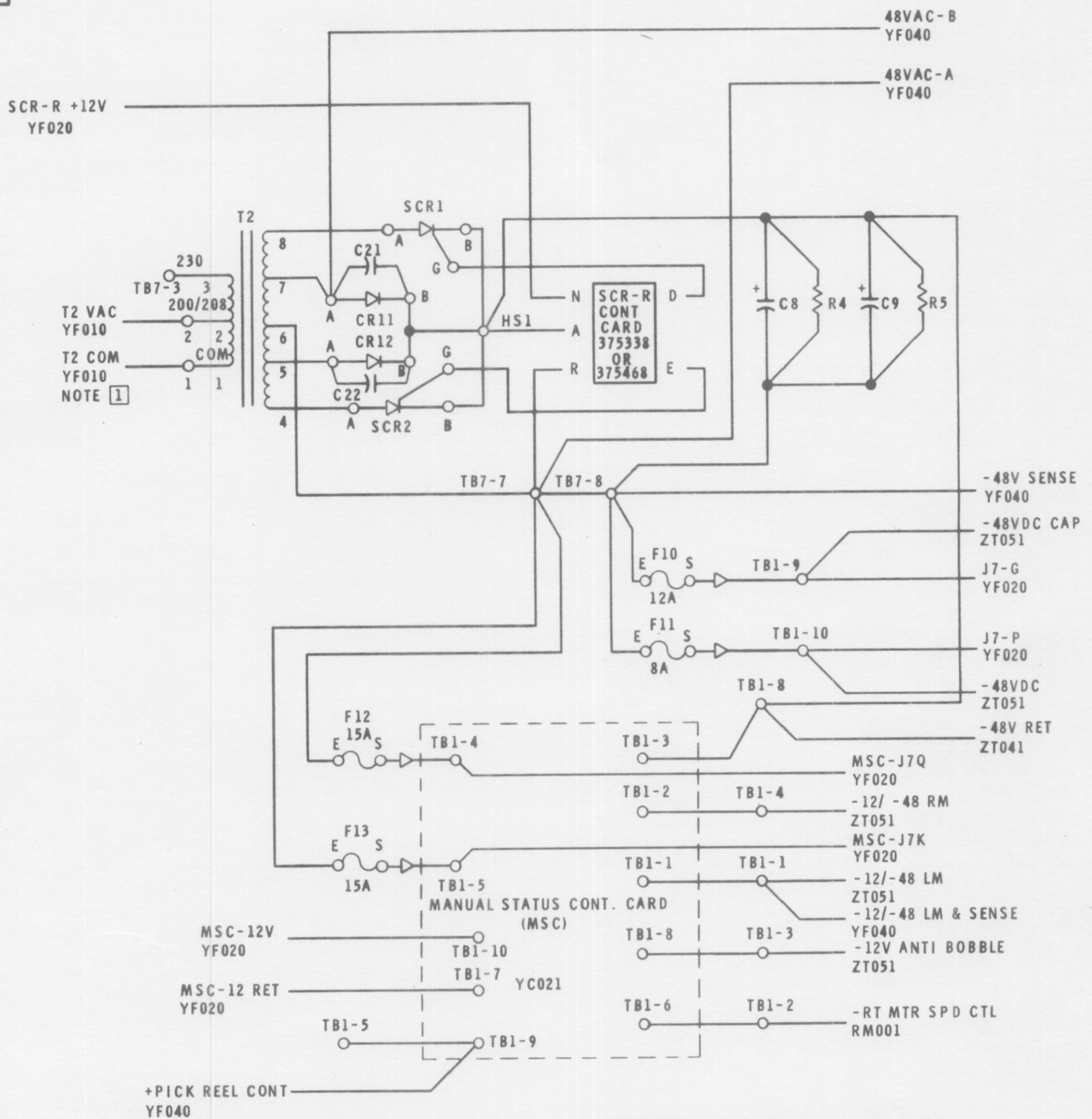
1767921

1767921 YF030

48V SUPPLY 60HZ PIGGYBACK

3420 MOD 4,6 OR 8 WITH POWER

SUPPLY ASM P/N 1767917



NOTES

- 1 LOGIC SHOWS CONNECTION FOR 200, 208, SEE TABLE FOR 230 VOLT CONNECTION
- 2 SIMILAR TO PART NUMBER 2515559

VOLTS	FROM	TO	LEAD#
230	TB4-5	T2-TB7-3	8

NAME		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SYSTEMS DIAGRAM		7MAY73	734499			X PRINT TO ENG. SPEC. NO.	
48V 60HZ		12NOV73	734958				
DESIGN	ECH 1MAR73	10FEB77	449067				
DETAIL	LD 7MAY73	22MAY80	846320				
CHECK							
APPRO	N-EH 1MAR73						

626-0021-000

01046

1767921

YF030

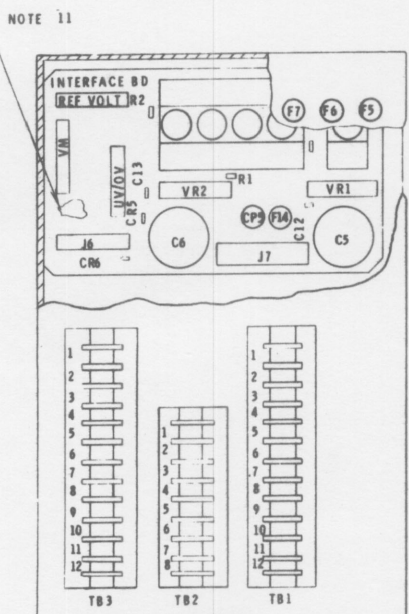
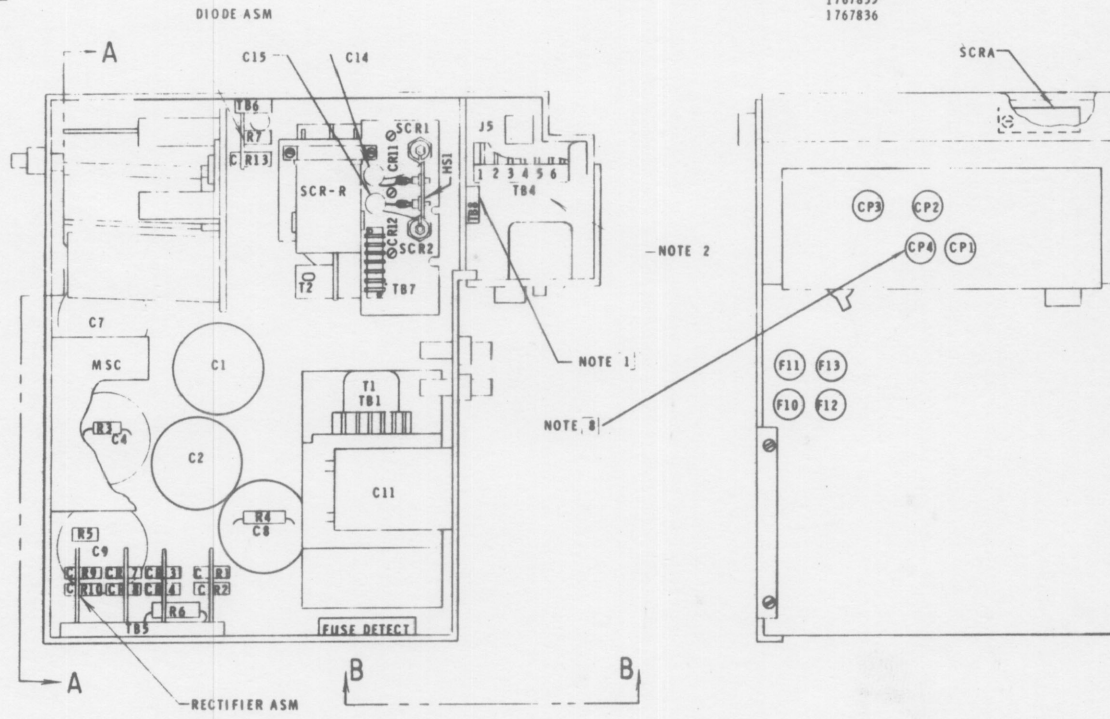
1767841

REFERENCE DRAWING

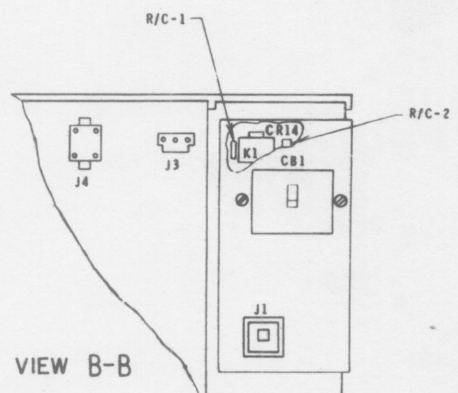
PART NO 1767841 LOGIC PG NO YF036

SHEET 1 OF 2

MOD 4, 6, 8, -50HZ-60HZ
COMPONENT CHART
FOR POWER SUPPLY PART NUMBERS 1767833
1767834
1767835
1767836



SECTION A-A



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYS COMPONENT CHART			SEE E/C HIST		17 DEC 76	449059
	50HZ-60HZ			BNOV73	734538	22 MAY 80	846320
DESIGN	EHC		SHT 1 OF 2	RED	18 JAN 74	736932	
DETAIL	PRB	18 JAN 74			19 JUN 74	736683A	
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC		LOGIC PG NO	
APPRO			N-VF	1 JAN 74		YF036	

1767841

NOTES

- 1 50 HZ ONLY
- 2 LATER PRODUCTION 60HZ MACHINES WILL NOT HAVE TB4 DUE TO REPLACEMENT OF CABLES PART NUMBER 2504125 AND 2504124 WITH PART NUMBER 2521569 ON ENGINEERING CHANGE 733698 FOR 3420 ALL MODS
- 3 IMPROVED REPLACEMENT FOR PART NUMBER 375338
- 4 NON-PCB CAP
- 5 SIMILAR TO PART NUMBER 2523066
- 6
- 7
- 8 SUPPLY PART NUMBER 1767833 ONLY
- 9 C11 PRIOR TO E.C. 734538 WAS PART NUMBER 524854 (20µf) AND MUST BE USED WITH TRANSFORMER PART NUMBER 2523076
- 10 T1 PRIOR TO E.C. 734538 WAS PART NUMBER 2523076 (NOTE 9)
- 11 PLASTIC DOOR POP-OUT TYPE PART NUMBER 1767847
- 12 COMPLETE POWER SUPPLY ASSEMBLIES: MOD4, 6 50HZ PART NUMBER 1767833, MOD4, 6 60HZ PART NUMBER 1767834, MOD8 50HZ PART NUMBER 1767835, MOD8 60HZ PART NUMBER 1767836
- 13 POWER SUPPLY PART NUMBER 1767834 ONLY
- 14 POWER SUPPLY PART NUMBER 1767835 ONLY
- 15 POWER SUPPLY PART NUMBER 1767836 ONLY
- 16 PART NUMBER 5796393 MAY BE PRESENT ON SOME MACHINES
- 17 PART NUMBER 5796429 MAY BE PRESENT ON SOME MACHINES

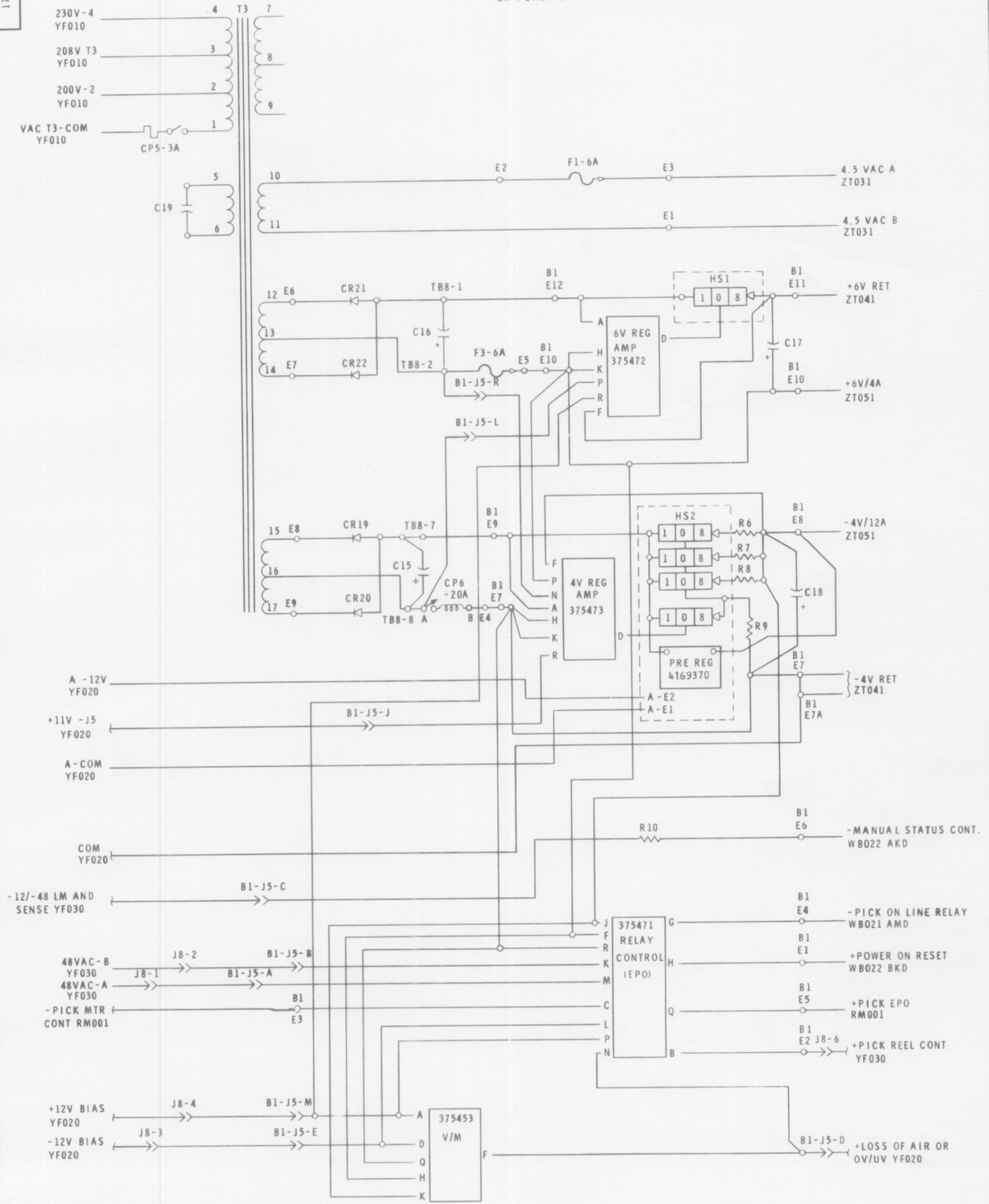
PART NO.	SYMBOL	DESCRIPTION
8493424	C1, C2, C4	[16] CAPACITOR, 120Kµf, 15V
208222	C5, C6	CAPACITOR, 5Kµf, 55V
8493425	C7	[17] CAPACITOR, 93Kµf, 15V
5214233	C8, C9	CAPACITOR, 20Kµf, 75V
5252819	C11	50HZ NOTE 4 9 CAPACITOR, 40µf, 330VAC
5252842	C11	60HZ NOTE 4 9 CAPACITOR, 10µf, 660VAC
492566	C12, C13	CAPACITOR, 100µf, 10V
2524653	C14, C15	CAP ASM (0.5µf AND .10µf PARALLEL)
631769	C7, C1, C2, C4, C8, C9	CAPACITOR SHIELD
4116985	CB1	50HZ CIRCUIT BREAKER, 16AMP
5719454	CB1	60HZ CIRCUIT BREAKER, 15AMP
2192539	J1	C11P CABLE RETAINER
2218599	CP1	CIRCUIT PROTECTOR, 10AMP
5180419	CP2	CIRCUIT PROTECTOR, 5AMP
2513489	CP3	CIRCUIT PROTECTOR, 5 AMP
2513475	CP4 NOTE 8	CIRCUIT PROTECTOR, 3AMP
2304267	CP5	CIRCUIT PROTECTOR, 20AMP
2523072	J1	CONNECTOR, MALE
1166116	J3	CONNECTOR, 3 PIN
2501405	J4, J5	CONNECTOR, 4 PIN
598353	CR1, CR2, CR13	DIODE, 10AMP
598355	CR4, CR7, CR8, CR3	DIODE, 10AMP
5323537	CR5, CR6	DIODE, 2AMP
595258	CR9, CR10	DIODE, 30AMP
127324	CR11, CR12	DIODE, 30AMP
2160917	CR14	DIODE ASM ASM
2523103	DIODE ASM	COMPLETE ASM
433557	F5, F11	FUSE, 8 AMP, MEDIUM TIME LAG
596676	F6	FUSE, 15 AMP, MEDIUM TIME LAG
303679	F7, F14	FUSE, 6 AMP, INSTANTANEOUS
433557	F10 NOTE 8 [13]	FUSE, 8 AMP, MEDIUM TIME LAG
1767881	F12 NOTE 14 [15]	FUSE, 12 AMP, MEDIUM TIME LAG
511063	F12, F13 NOTE 8 [13]	FUSE, 10 AMP, MEDIUM TIME LAG
596676	F12, F13 NOTE 14 [15]	FUSE, 15 AMP, MEDIUM TIME LAG
375469	FUSE DETECT	FUSE DETECT AND EPO
2513451	F7	FUSE HOLDER
2523099	F9, F6	FUSE HOLDER
2523063	F14	FUSE HOLDER
5213482	SCR1, SCR2	RECTIFIER, 50A SEMI CONDUCTOR CONTROL
1767846	RECTIFIER ASM	COMPLETE ASM
589091	K1	RELAY
5214702	MSC	RELAY
317006	R1	RESISTOR, 200Ω, .5W
1767887	R2	RESISTOR, PRINTED
501565	R3	RESISTOR ASM, 50Ω, 10W
5761896	R4, R5	RESISTOR ASM, 300Ω, 20W
2513470	R6	RESISTOR ASM, 200Ω, 2W
472588	R7	RESISTOR, 15Ω, 25W
2524683	R/C-1-2	RESISTOR-CAPACITOR ASM (47Ω, 22µf)
2523077	T1 50HZ	TRANSFORMER, FERRO
1766237	T1 60HZ NOTE 10	TRANSFORMER, FERRO
2523079	T2 50HZ NOTE 8	TRANSFORMER
2523078	T2 60 HZ NOTE 13	TRANSFORMER
4119228	T2 50 HZ NOTE 14	TRANSFORMER
2515445	T2 60 HZ NOTE 15	TRANSFORMER
2523074	T2 AND TAP CHANGER	TRANSFORMER
2523075	T2 AND TAP CHANGER	TRANSFORMER
2515456	T2 AND TAP CHANGER	TRANSFORMER
2515446	T2 AND TAP CHANGER	TRANSFORMER
375468	SCR-R NOTE 3	SCR REGULATOR CARD
2524604	MSC NOTE 8 [13]	MANUAL STATUS CONTROL CARD
2523105	MSC NOTE 14 [15]	MANUAL STATUS CONTROL CARD
2524619	SCRA	PNEU SOL CONTROL RELAY ASM
375473	VR2	MV REGULATOR CARD
375472	VR1	6V REGULATOR CARD
375478	UV/OV	UV/OV OUTPUT CARD
375348	VM	UV/OV VOLTAGE MON.
375345	REF VOLT	UV/OV REF VOLT
1767843	INTERFACE BOARD	INTERFACE BOARD
350977	TB7 (8 POSITION)	TB SHIELD
533362	TB1 (5 POSITION)	TB SHIELD
2513449	F10, F11, F12, F13	FUSE HOLDER

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IBM NAME: SYS COMPONENT CHART 50HZ-60HZ		DATE	CHANGE NO	DATE	CHANGE NO
		SEE E.C. HIST		17 DEC 76	449059
DESIGN	8NOV73	734538	22MAY80	846320	
DETAIL	21JAN74	736932			
CHECK	19JUN74	736683A			
APPRO	N-VF 9JAN74				
CLASSIFICATION		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
				LOGIC PG NO	
				YF036	

1767922

DC AND BOOSTER SUPPLY 60HZ
3420-004-006-008 PIGGYBACK
FOR POWER SUPPLY PART NUMBER 1767917



NOTES:
1 SIMILAR TO PART NUMBER 2515556

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				8MAY73	734499		
SUPPLY 60HZ				18OCT73	734488		
DESIGN	ECH	1MAR73	SHT OF	8 APR 75	443862		
DETAIL	LD	8MAY73		22MAY80	846320		
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO			N-ECH	1MAR73		YF040	

1767922

1767855

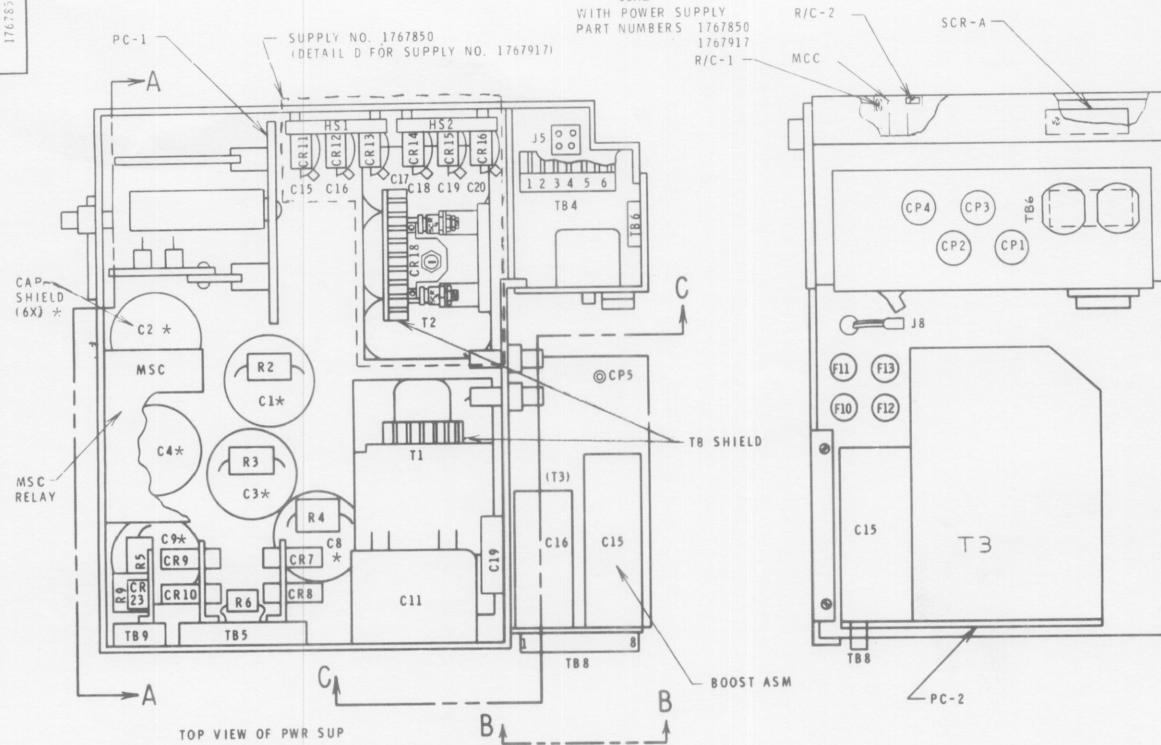
PART NO
1767855

LOGIC PG NO
YF050

3420-004, 006, 008 PIGGYBACK
COMPONENT CHART

SHEET 1 OF 2

60HZ
WITH POWER SUPPLY
PART NUMBERS 1767850
1767917
R/C-1



NOTE	PART NO.	SYMBOL	DESCRIPTION
	5261825	C1, C2, C3, C4	70,000µf 13V CAPACITOR
	208238	C5, C6	10,000µf 33V CAPACITOR
	5266023	C7	10,000µf 55V CAPACITOR
	5214233	C8, C9	20,000µf 75V CAPACITOR
4	2515463	C15-C20	.05 MFD CAP
	369849	C12, C13, C14	CAP. 50 MFD AT 50VDC
	5252017	C11 NOTE 3	30 MFD 330 VAC CAP.
6	8493424	C15	120K MFD 15VDC
7	8493425	C16	93K MFD 15VDC
	5252810	C19 NOTE 3	FERRO CAP. 10 MFD 330VAC
5	2524653	C21, C22	.15 MFD CAP ASM
	2524683	R/C 1-2	RES-CAP ASM (47n-, 22µf)
	359959	R1	1.5K 5W RES
	501565	R2, R3	50Ω 10W RES ASM
	5761896	R4, R5	300Ω 20W RES ASM
	2513470	R6	2W 200Ω RES ASM
	472588	R9	15Ω 25W RES
4	127324	CR18	30 AMP DIODE
	375332	CR1 THRU CR6	? AMP DIODE CARD ASM
	598353	CR7, CR8, CR23	10 AMP DIODE
	598355	CR9, CR10	10 AMP DIODE
4	595258	CR11, CR12, CR13	30 AMP DIODE
5	127324	CR11, CR12	30 AMP DIODE
	127324	CR14, CR15, CR16	30 AMP DIODE
	2392039	CR19-CR22	20 AMP DIODE
	2524619	SCRA	SOL CONT RELAY ASM
5	375468	SCR-R	SCR REG CARD NOTE 2
5	5213483	SCR1, 2	55 AMP CONTROL RECT
4	5213483	SCR3, SCR4	CONT RECT 55 AMP
4	373071	MSC	MANUAL STATUS CONT CARD
5	373074	MSC	MANUAL STATUS CONT CARD
	5318968	RELAY MSC	MSC RELAY 4PDT
	2513449	FUSE HOLDER	USE WITH F10-F13
	2513451	FUSE HOLDER	USE WITH F5-F8
	5786928	FUSE HOLDER	USE WITH F9
	1767864	BOOST ASM	COMPLETE ASM
	2524652	BOOST ASM SHIELD	USE WITH BOOST ASM
	533362	T8 SHIELD	USE WITH T1 (5 POS.)
4	352850	T8 SHIELD	USE WITH T2 (9POS.)
5	350977	T8 SHIELD	USE WITH T2 (8POS.)
	631769	CAPACITOR SHIELD	USE WITH C1-4, C8, C9

[illegible]

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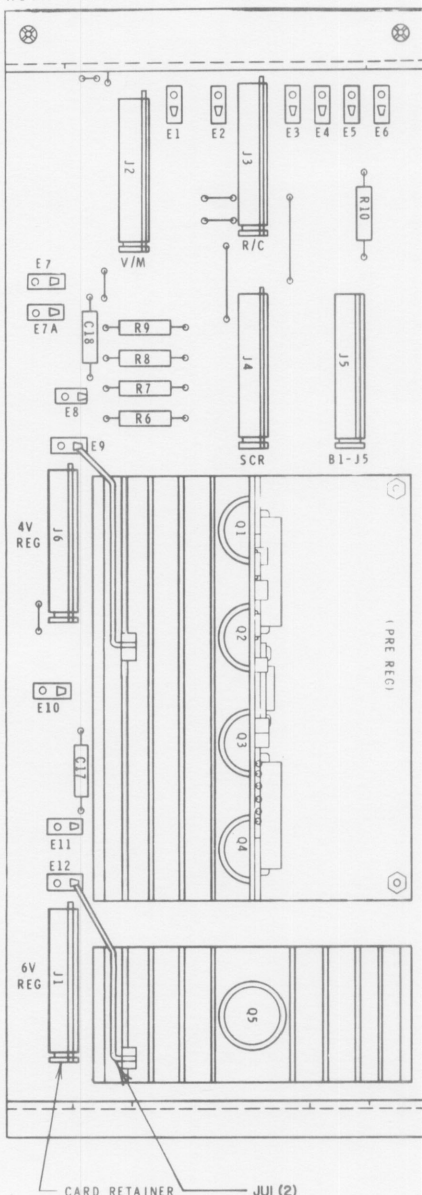
IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM COMPONENT CHART		24 JUN 72	7343058	21 JAN 74	736931
	60HZ		13 SEP 72	734305C	19 JUN 74	736683A
DESIGN		SHT 2 OF 2	4 MAY 73	734499	17 DEC 74	449059
DETAIL			18 OCT 73	734488	22 MAY 80	846320
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO		N-ENG 7MAY 73			YF050	

D
1767856

56-60HZ 3420-004, 006, 008 PIGGYBACK
COMPONENT LOCATION
CHART

USE WITH POWER SUPPLY PART NUMBERS 1767850,1767917,1767849,1767918

PART NO 1767856	LOGIC PG NO YF060



NOTES

- 1 BOARD ASSEMBLY PART NUMBER 1767868 FOR SUPPLIES
PART NUMBERS 1767849, 1767917, 1767918
- 2 BOARD ASSEMBLY PART NUMBER 1767869 FOR SUPPLY
PART NUMBER 1767850
- 3 SUPPLY PART NUMBER 1767850 ONLY

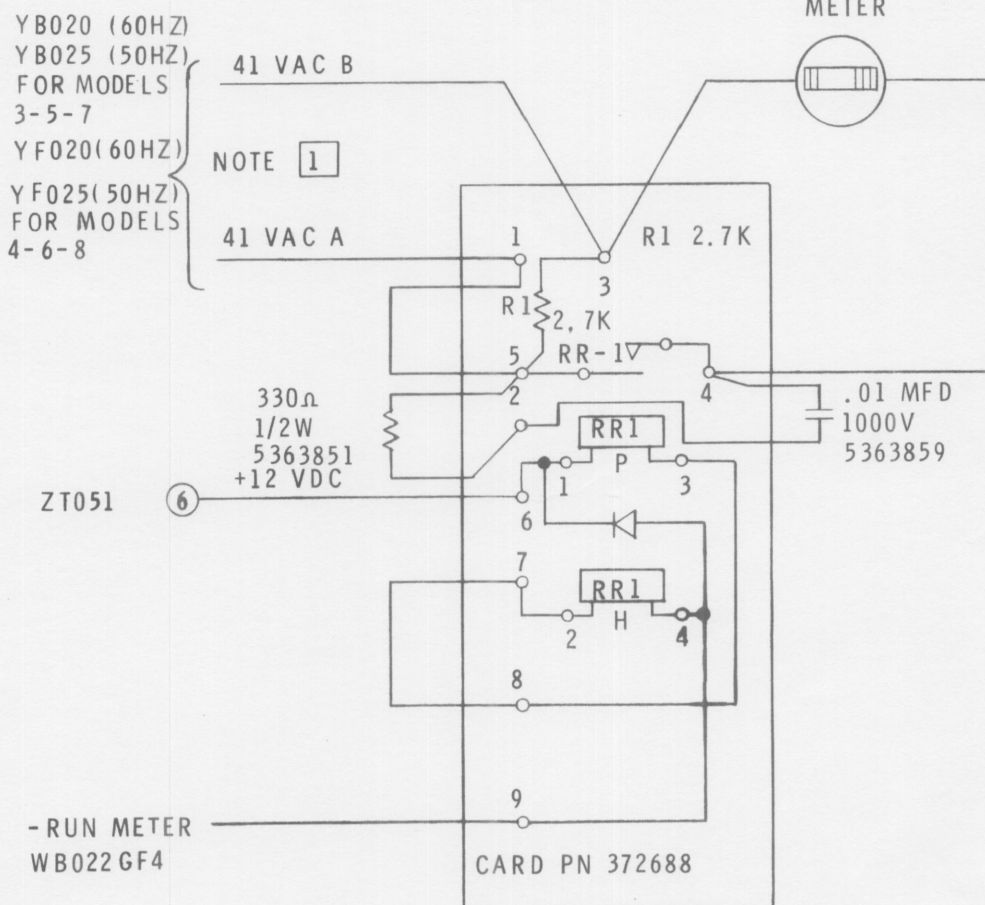
PART NO.	SYMBOL	DESCRIPTION
375472	J1 6V REG	REG SMS CARD
375453	J2 V/M CARD	VOLT MONITOR SMS CARD
375471	J3 R/C CARD	RELAY CONTROL EPO
NOTE 3	375468	J4 SCR CARD - CONT
	J5	CABLE CONNECTOR
375473	J6 4V REG	REG SMS CARD
4169758	JU 1	JUMPER TO HEATSINK
492566	C17, C18	CAPACITOR 100µf, 10VDC
207324	R6-R8	RESISTOR 0.1n, 5W
335329	R9	RESISTOR 47n, 2W
317088	R10	RESISTOR 3Kn, 2W
369214	Q1-Q5	TRANSISTOR 108
4169370	PRE REG	PRE-REGULATOR
2521592	CD RETAINER	USE W/J1-4 AND J6

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME INTERFACE BOARD		24 JUN 72	734305B	BAPR 75	443862
		13SEP 72	734305C	23 NOV 76	449063
DESIGN ECH	SHY OF	4MAY73	734499	21 MAR 77	449068
DETAIL RFM	24 JUN 77	21 JAN 74	736931	22 MAY 80	846320
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO		N-ER	8AUG72		YF060

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USAGE METER



NOTES

1

INPUT VOLTAGE IS APPROXIMATELY 41 VAC
WHEN METER IS RUNNING AND 53.5 VAC
WHEN METER IS NOT RUNNING

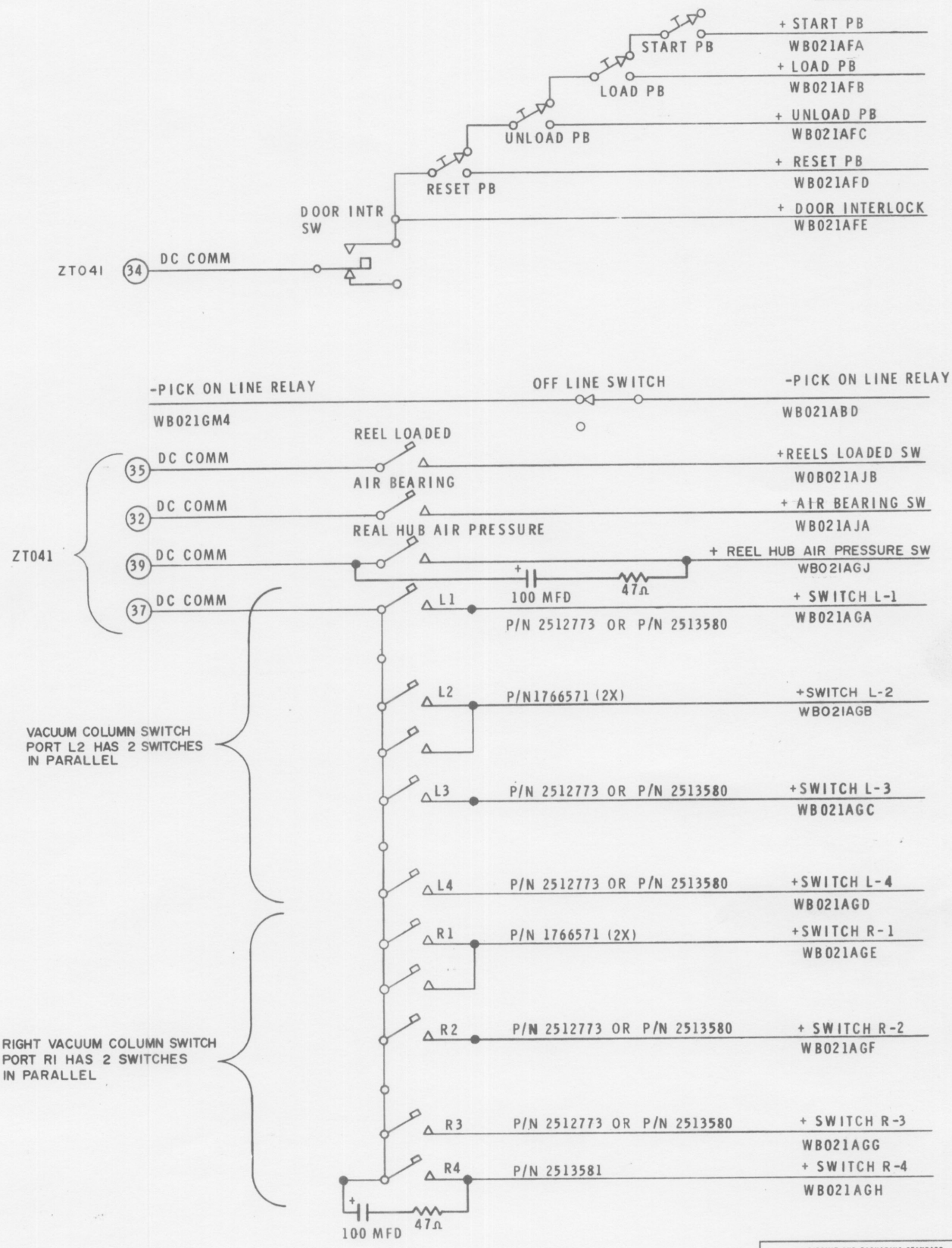
INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	USAGE METER			14OCT72	734303F			X PRINT TO ENG. SPEC. NO.	
SYSTEM DIAGRAM				22MAY80	846320				
DESIGN	DBK		MODEL						
DETAIL	GGK	14OCT72							
CHECK			DRAW						
APPRO	N-DK	30AUG72	CHECK						
									Z TOOL

1766784

P-1100-0000 REV.04

1766785
STANDARDS
CODE

CARD CODE ZTO11



CIRCUIT AND PACKAGING STANDARD			
APPROVAL		DATE	

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME				14OCT72	734303F					
VACUUM SWITCHES				6SEP73	736017					
DESIGN				7JUL75	443893					
DETAIL				5MAR76	443893					
CHECK				16NOV81	847861					
APPRO										

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1766785

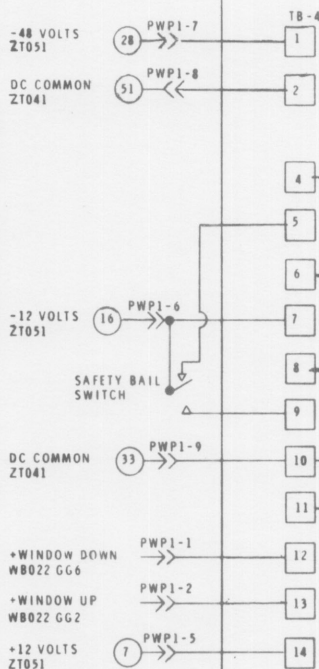
C

P/N 4946953 AND 4449673 ARE USED ON MACHINES WITH EC 443925
P/N 373072 AND 4449672 ARE USED ON MACHINES WITHOUT EC 443925

COMPONENT	PART NUMBER
WINDOW UP SWITCH 6	5418005, 829728
WINDOW DOWN SWITCH 6	5418005, 829728
SWITCH ACTUATOR	2501152
FUSE 2A	615683
FUSE HOLDER	179946
C2	1767693
SPACER 3	4169484
RELAY 3	5213449

NOTES

- 1 SOME MACHINES WILL HAVE 2 AMPERE C.B. RATHER THAN FUSE
- 2 COMPLETE CARD ASSEMBLY DOES NOT INCLUDE C2
- 3 SPACER PART NUMBER 4169484 IS USED ON BOARD PART NUMBER 4946953 AND 4449673 ONLY AND IS LOCATED UNDER THE WINDOW DOWN SWITCH
- 4 CHECKPOINT FOR EC 449925 IS A SPACER UNDER THE WINDOW DOWN SWITCH
- 5 RELAY ONLY USED ON BOARD PART NUMBER 373072 AND PART NUMBER 4946953
- 6 SWITCH PART NUMBER 829728 IS USED ON BOARD PART NUMBER 4449672 AND PART NUMBER 4449673. SWITCH PART NUMBER 5418005 IS USED ON BOARD PART NUMBER 373072 AND PART NUMBER 4946953



CIRCUIT BOARD PART NUMBER 4449672 AND 4449673 CONTROL MOTOR DIRECTION BY REVERSING THE DIRECTION OF FIELD CURRENT

TERMINAL VOLTAGES FOR VARIOUS MOTOR STATES WHEN USING BOARD PART NUMBER 4449672 OR 4449673

MOTOR STATE	ARMATURE		FIELD	
	4/BLACK	6/RED	15/YELLOW	16/BLUE
GO UP	-48V	-1V MAX	-1V MAX	-48V
GO DOWN	-1V MAX	-48V	-1V MAX	-48V
STOP	-48V	-48V	-48V	-48V

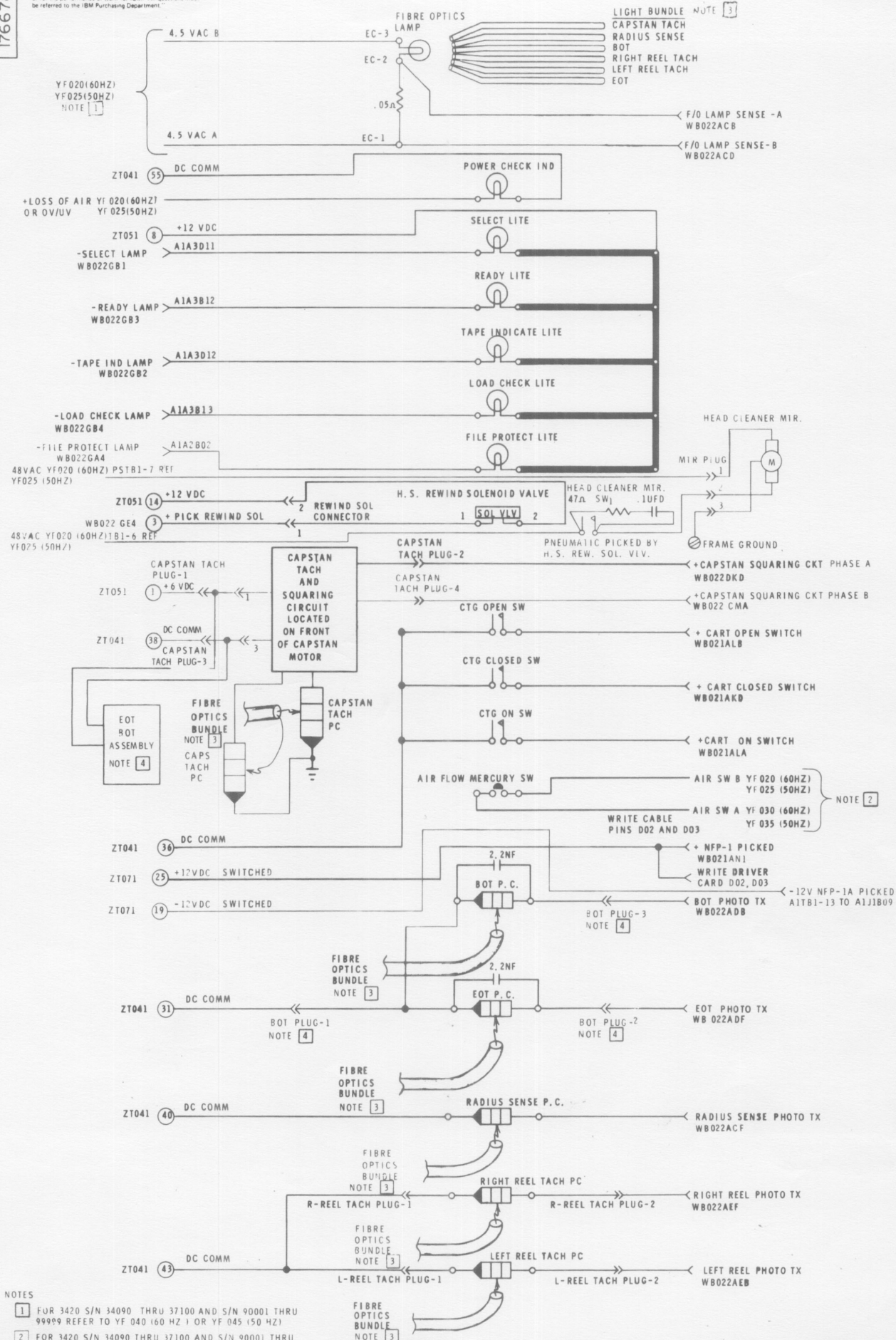
MOTOR STATE	ARMATURE		FIELD	
	4/BLACK	6/RED	15/YELLOW	16/BLUE
GO UP	-48V	-1V MAX	-1V MAX	-48V
GO DOWN	-48V	-1V MAX	-48V	-1V MAX
STOP	-48V	-48V	-10V MAX	-10V MAX

NOTE: ON THESE TWO BOARDS THE FIELD VOLTAGE WILL REVERSE FOR APPROXIMATELY 100 MS WHEN THE MOTOR STOPS IN THE OPEN OR CLOSED POSITION

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM POWER			22 MAY 80	846320		
WINDOW BOARD	3420 ALL MODELS			12 JUN 81	846320C		
DESIGN	GS	8NOV79	SHY 1 OF 1	21 DEC 81	847861A		
DETAIL	GDI						
CHECK	AK	19 JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO							

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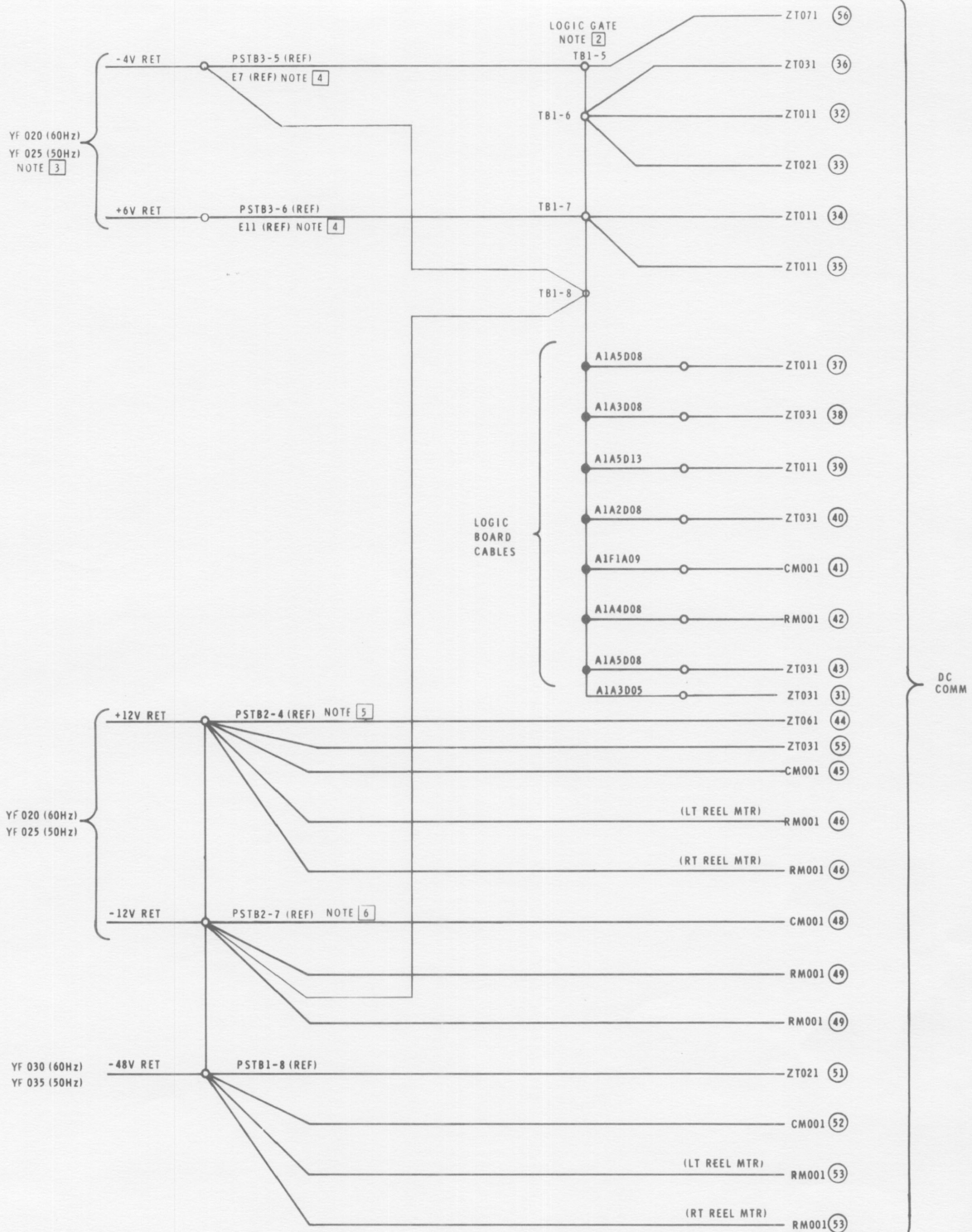


NOTES

- 1 FOR 3420 S/N 34090 THRU 37100 AND S/N 90001 THRU 99999 REFER TO YF 040 (60 HZ) OR YF 045 (50 HZ)
- 2 FOR 3420 S/N 34090 THRU 37100 AND S/N 90001 THRU 99999 REFER TO YF 020 (60 HZ) YF 025 (50 HZ)
- 3 ON SOME MACHINES A LED MAY BE PRESENT IN PLACE OF FIBRE BUNDLE
- 4 ONLY PRESENT ON MACHINES WITH LED EOT/BOT ASSEMBLY

NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SCHEMATIC -	16OCT72	74303F	8NOV73	734673	X PRINT TO ENG. SPEC. NO.	
REFERENCE	7DEC72	734768	22MAY73	846320		
DESIGN C.B.K.						
DETAIL G.W.S.	16OCT72	743780				
CHECK	5MAR73	734787				
APPRO	18JUN73	735624				

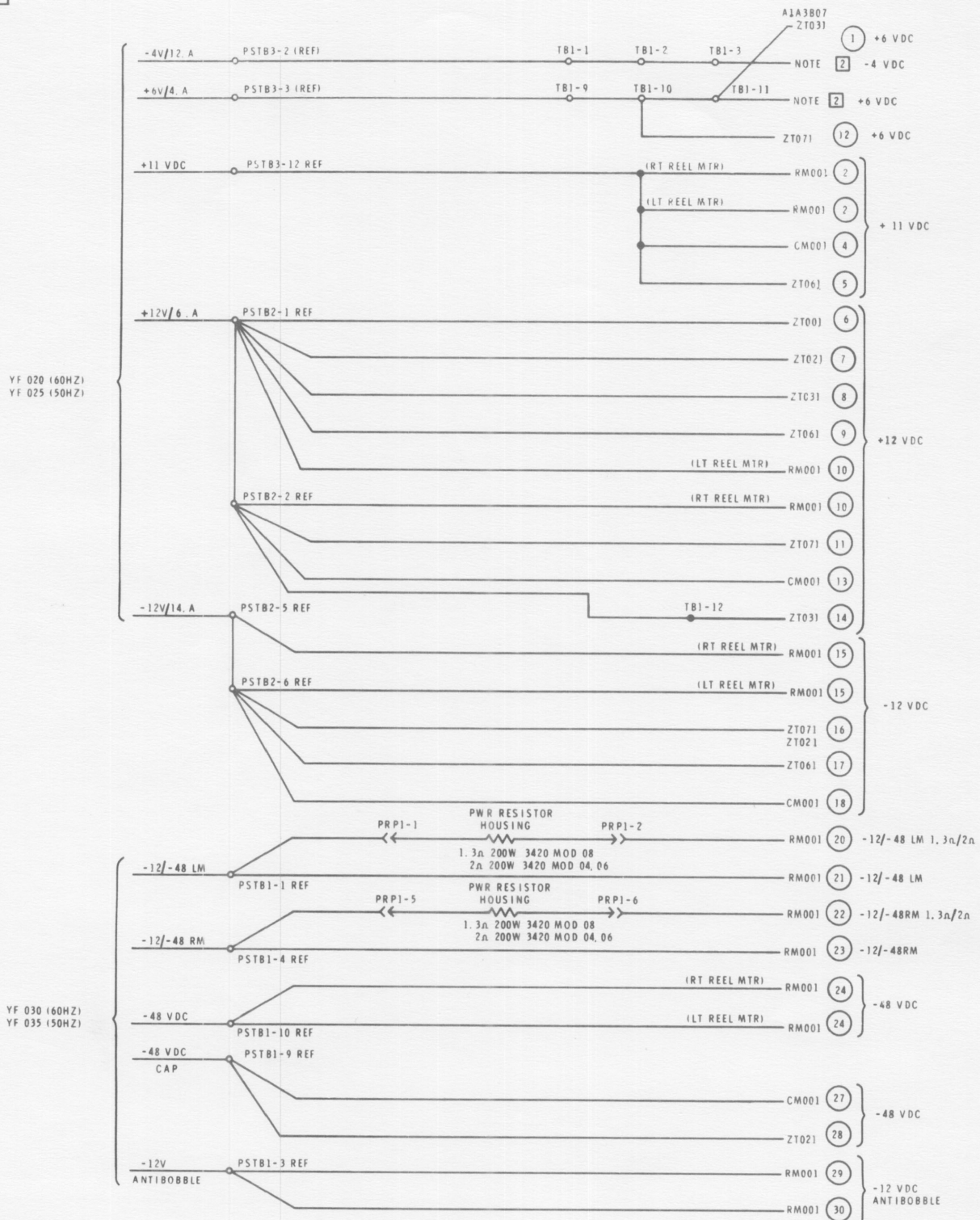
ZT031



NOTES

- 1 PSTB1, PSTB2, AND PSTB3 REFER TO TB'S 1-2-3 ON FRONT OF POWER SUPPLY
- 2 SEE PAGE FT910 FOR LOGIC GATE DISTRIBUTION
- 3 FOR 3420 S/N 34090 TO 37100 AND S/N 90001 TO 99999 REFER TO YF040 (60 HZ) OR YF045 (50 HZ)
- 4 E7 AND E11 TERMINATIONS ARE LOCATED ON POWER REGULATOR BOARD NEXT TO RIGHT REEL MOTOR BOARD ON S/N 34090 TO 37100 AND S/N 90001 TO 99999
- 5 PSTB3-4 ON S/N 34090 TO 37100 AND S/N 90001 TO 99999
- 6 PSTB3-7 ON S/N 34090 TO 37100 AND S/N 90001 TO 99999

IBM		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	GROUND DISTRIBUTION	16OCT72	734303F			X PRINT TO ENG. SPEC. NO.	
DESIGN	DBK	7DEC72	734768				
DETAIL	GW S	16OCT72					
CHECK	GGC	17FEB73	734780				
APPRO	N-DK	28JUN73	735637				
		22MAY80	846320				
							ZT041

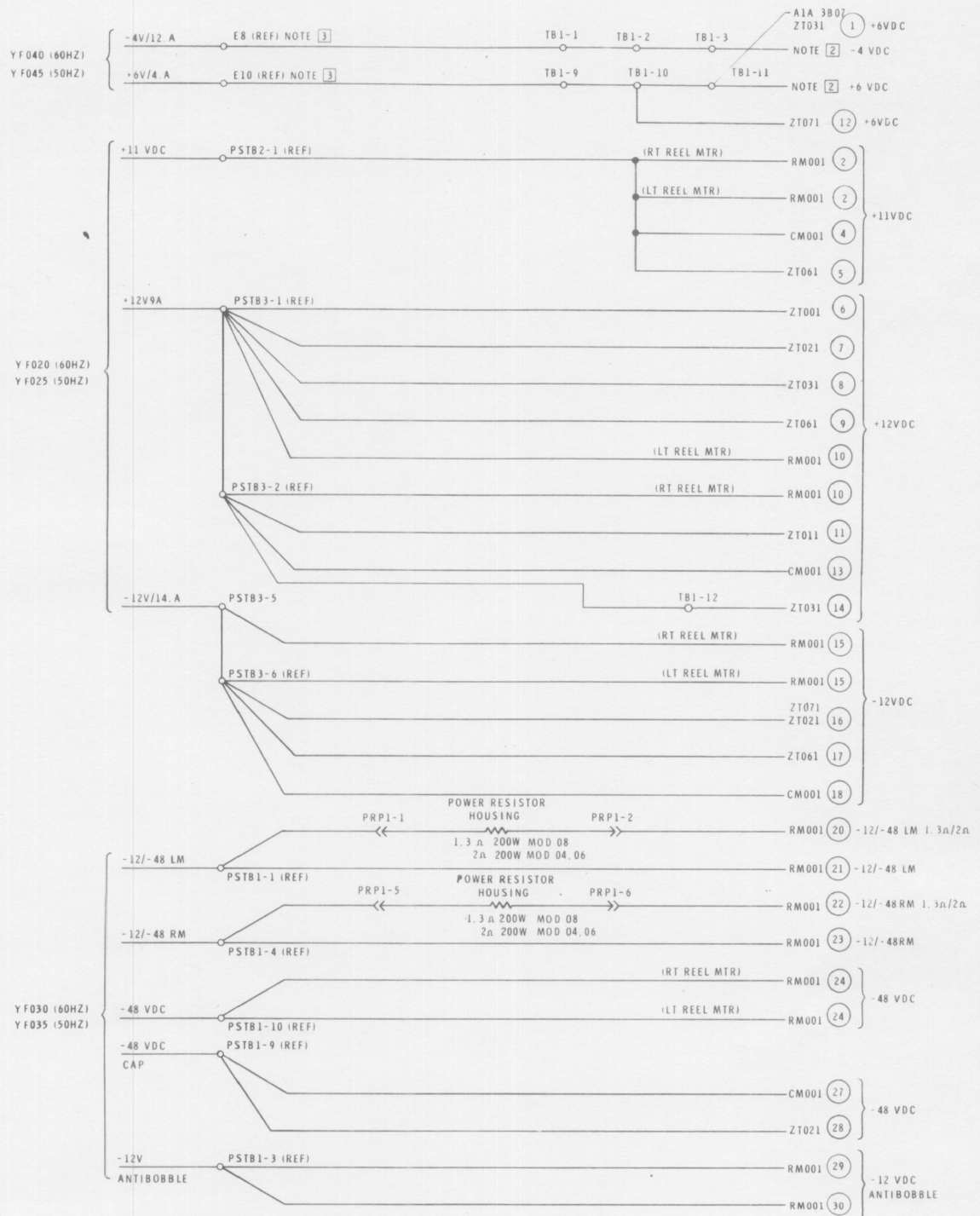
DC DISTRIBUTION 3420 MOD 4, 6, 8
50Hz AND 60Hz

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	REFERENCE PAGE			SEE E. C. HISTORY			
DC DISTRIBUTION MOD 4, 6, 8				28APR73	735602		
DESIGN	DBK	30AUG72	SHT 1 OF 1	RED	19APR78	449093	
DETAIL	JTL	19APR78			22MAY80	846320	
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO			N - DK	30AUG72			ZT051

1845796

D

DC DISTRIBUTION 3420 MOD 4.6.8 PIGGYBACK
50HZ AND 60HZPART NO
1845796LOGIC PG NO
ZT051

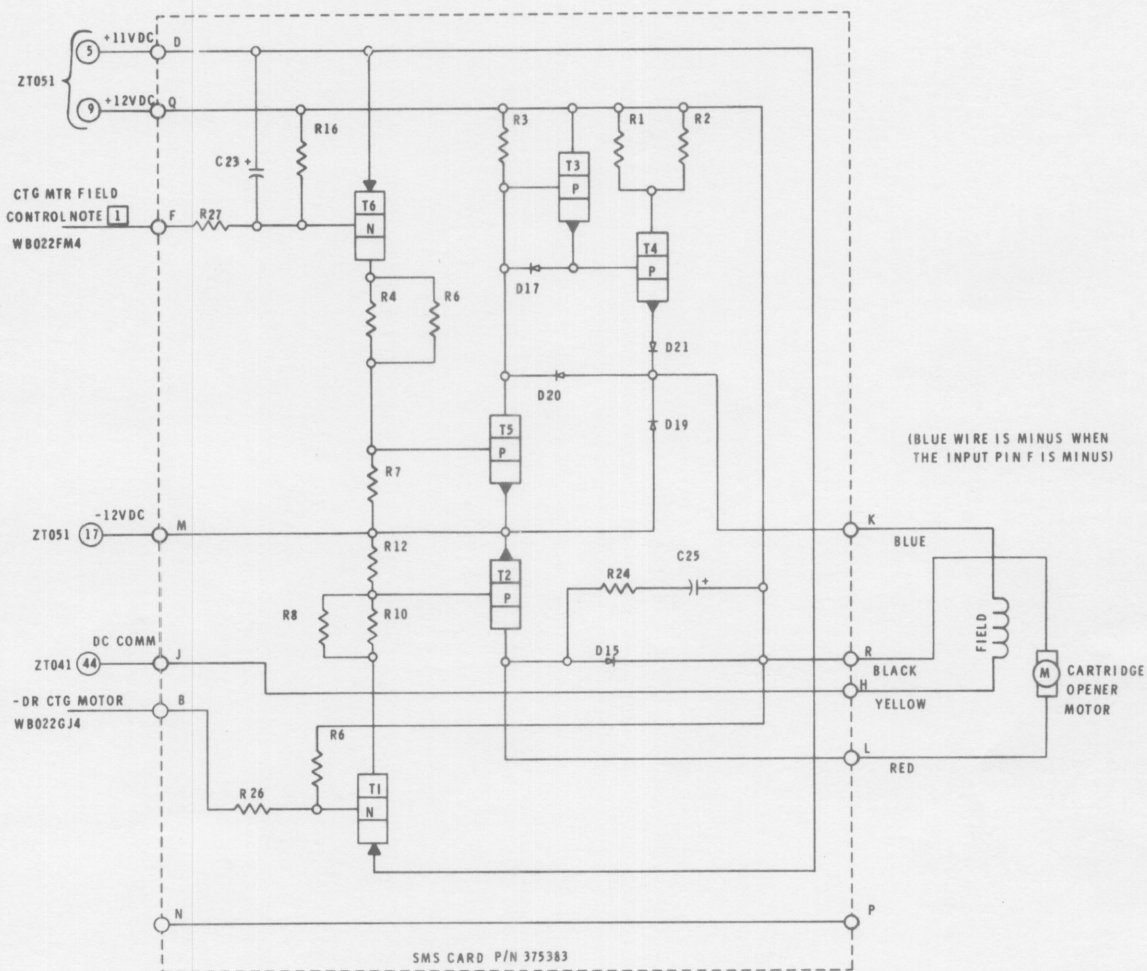
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	REFERENCE PAGE			20FEB73	734780		
DC DISTRIBUTION MOD 4.6.8				5MAR73	734787		
DESIGN DBK		SHT OF		19APR78	449093		
DETAIL GWS	20FEB73			22MAY80	846120		
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT N		LOGIC PG NO	
APPRO		N-DK	6FEB73			ZT051	

1845796

D

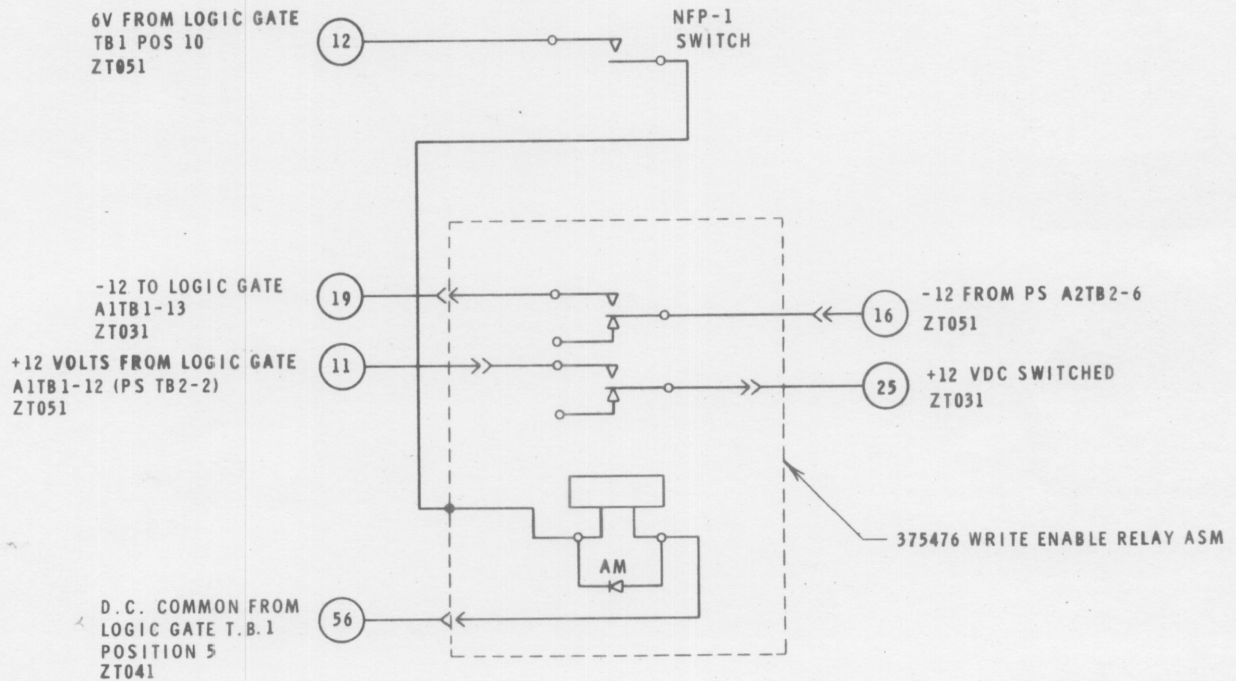
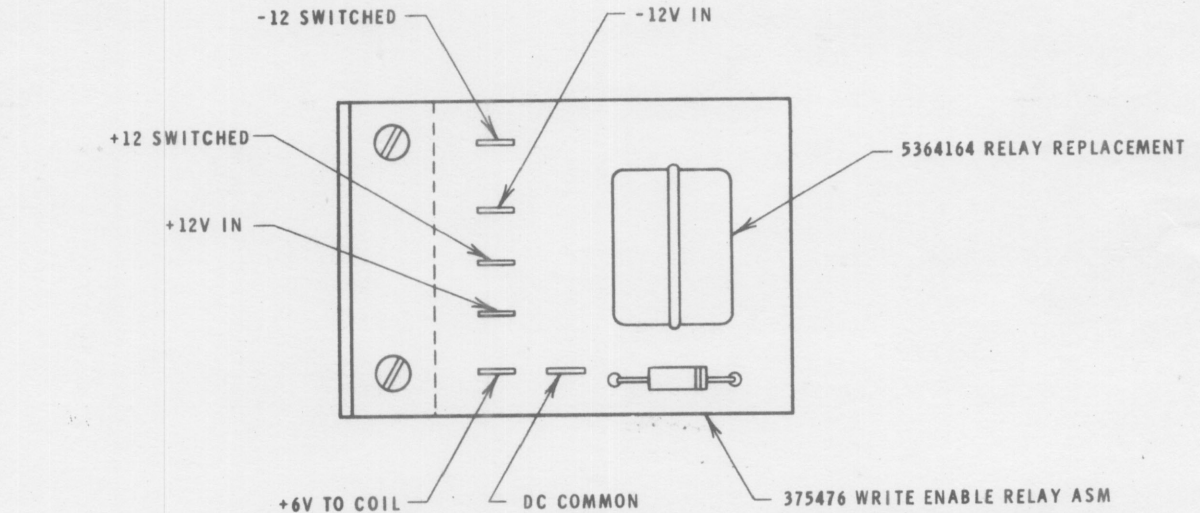
CARTRIDGE OPENER CONTROL
50 OR 60 HZ
LOCATED ABOVE CARTRIDGE OPENER MOTOR
AN SMS TYPE CARD



NOTES

- 1 WHEN PIN (F) IS - (GND) CARTRIDGE MOTOR WILL ROTATE CW (OPEN). WHEN PIN (F) IS + (+12V) CARTRIDGE MOTOR WILL ROTATE CCW (CLOSE)

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IBM				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	N.F.P. SWITCH AND WRITE ENABLE RELAY			5DEC72	734768			X PRINT TO ENG. SPEC. NO.	
DESIGN	RGB	STANDARDS CODE							
DETAIL	LD	5DEC72							ZT071
CHECK									
APPRO	N-DBK	5DEC72	C						