

MACH M SERIAL SYST F/E W/T CUST MD MICRO BOX SHIP MFG CTL MACHINE PLT M/EC  
 TYPE C NUMBER TYPE NUMBER B/O CTY NUMBER CD IPC-CD SHIP MFG CTL STATUS  
 3420 A 0068029 8888 8701000 0510 6177908 79-05-11 TUC. TUC. SWH M/EC

BASIC ECA.EC FACTORY EC SALES MOD PLANT ORDER HARD CARD  
 074.736683A 443858 006 936116 001

MACHINE DEVICE/RPQ CONFIGURATION

DH	DEVICE/RPQ	QTY	STATUS	DH	DEVICE/RPQ	QTY	STATUS
6425	1	FACTORY INST	9053	1	FACTORY INST		
9043	1	FACTORY INST	9903	1	FACTORY INST		

STANDARD FEATURE SECTION

ECA	FIELD	FACTORY	FEATURE	BM	FTR-ASN	FEATURE	NAME	STATUS
117	847202	846657	1765813			F A MOD-6	60 HZ	FACT INST
000	734300C	735627	1765833			6250/1600	M-6 DD	FACT INST
000	222222		1767568			SHIP GROUP		FACT INST
120	847861	449059	1845811			LOGIC BD	50/60	FACT INST
120	847861	449067	1845812			LOGIC GRP	50/60	FACT INST
000	222222		1846215			COVER GRP	BLUE	FACT INST
127	847849		1846272			SINGL SYS	MDL CTL	FACT INST
000	222222		1847833			LANG GRP	ENGLISH	FACT INST
000	222222		2502208			T-REEL SHP	GRP-B	FACT INST
000	222222		7381728			DON-PACKAGING		FACT INST

FACTORY EC SECTION

EC NO	STATUS
443858	INSTALLED
443878	INSTALLED
449059	INSTALLED
449067	INSTALLED
449076	INSTALLED
733183	INSTALLED
734050A	INSTALLED
734053	INSTALLED
734069	INSTALLED
734260	INSTALLED
734267	INSTALLED
734269	INSTALLED
734300G	INSTALLED
734303B	INSTALLED
734303F	INSTALLED
734305A	INSTALLED
734305B	INSTALLED
734305C	INSTALLED
734307	INSTALLED
734311	INSTALLED
734315	INSTALLED
734318	INSTALLED
734370	INSTALLED
734373	INSTALLED
734394	INSTALLED

591

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MACHINE HISTORY

DATE 05-03-08

PAGE 2

MACH M SERIAL SYST NUMBER B/D W/T CUST MD MICRO BOX MACHINE PLT PLT MACHINE  
 TYPE C NUMBER TYPE NUMBER B/D CTY NUMBER CO TPC-CD SHIP SHIP MFG CTL STATUS  
 3420 A 0068029 8888 8701000 0510 6177908 79-05-11 TUC. TUC. SHM N/EC

FACTORY EC SECTION

EC NO	STATUS
734379	INSTALLED
734384	INSTALLED
734386	INSTALLED
734389	INSTALLED
734444	INSTALLED
734446	INSTALLED
734448	INSTALLED
734450	INSTALLED
734458	INSTALLED
734459	INSTALLED
734460	INSTALLED
734463	INSTALLED
734471	INSTALLED
734472	INSTALLED
734487	INSTALLED
734488	INSTALLED
734491	INSTALLED
734497	INSTALLED
734497A	INSTALLED
734499	INSTALLED
734505	INSTALLED
734510	INSTALLED
734519	INSTALLED
734536	INSTALLED
734538	INSTALLED
734541	INSTALLED
734673	INSTALLED
734744	INSTALLED
734749	INSTALLED
734751	INSTALLED
734765	INSTALLED
734766	INSTALLED
734768	INSTALLED
734774	INSTALLED
734775	INSTALLED
734775A	INSTALLED
734776	INSTALLED
734777	INSTALLED
734778	INSTALLED
734780	INSTALLED
734781	INSTALLED
734784	INSTALLED
734787	INSTALLED

MACH M SERIAL SYST SYSTEM F/E W/T CUST MD MICRO BOX SHIP MFG CTL MACHINE  
 TYPE C NUMBER TYPE NUMBER B/O CTY NUMBER CD TPC-CD SHIP 79-05-11 TUC. TUC. SWM W/EC  
 36420 A 0068029 6888 8701000 0510 6177908

FACTORY EC SECTION

EC NO	STATUS
734789	INSTALLED
734790	INSTALLED
734793	INSTALLED
734795	INSTALLED
734798	INSTALLED
734798A	INSTALLED
734800	INSTALLED
734801	INSTALLED
734802	INSTALLED
734803	INSTALLED
734804	INSTALLED
734804A	INSTALLED
734806	INSTALLED
734808	INSTALLED
734809	INSTALLED
734810	INSTALLED
734815	INSTALLED
734839	INSTALLED
734901	INSTALLED
734942	INSTALLED
734944	INSTALLED
734957	NOT INST
735168	INSTALLED
735600	INSTALLED
735602	INSTALLED
735612	INSTALLED
735617	INSTALLED
735618	INSTALLED
735619	INSTALLED
735621	INSTALLED
735622	INSTALLED
735623	INSTALLED
735624	INSTALLED
735627	INSTALLED
735631	INSTALLED
735633	INSTALLED
735636	INSTALLED
735637	INSTALLED
735639	INSTALLED
735640	INSTALLED
735646	INSTALLED
735649	INSTALLED
735810	INSTALLED

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MACHINE HISTORY

DATE 85-03-08

PAGE 4

MACH N SERIAL SYST SYSTEM F/E W/T CUST MD MICRO BOX MACHINE PLT PLT MACHINE  
 TYPE C NUMBER TYPE NUMBER B/O CTY NUMBER CD TPC-CD SHIP SHIP MFG CTL STATUS  
 3420 A 0068029 8888 8701000 0510 6177908 79-05-11 TUC. TUC. SMM W/EC

FACTORY EC SECTION

EC NO	STATUS
735811	INSTALLED
735812	INSTALLED
735812A	INSTALLED
735814	INSTALLED
735816	INSTALLED
736015	INSTALLED
736016	INSTALLED
736017	INSTALLED
736032	INSTALLED
736033	INSTALLED
736653	INSTALLED
736656	INSTALLED
736686	INSTALLED
736804	INSTALLED
736809	INSTALLED
736822	INSTALLED
736979	INSTALLED
736980	INSTALLED
736993	INSTALLED
736997	INSTALLED
736998	INSTALLED
736999	INSTALLED
737004	INSTALLED
737006	INSTALLED
737007	INSTALLED
737014	INSTALLED
737018	INSTALLED
737148	INSTALLED
845969	INSTALLED
845993	NOT INST
846009	INSTALLED
846009A	INSTALLED
846657	INSTALLED
846685	NOT INST
847189	NOT INST
847266	NOT INST

ECA HISTORY SECTION

N/A = ECA NOT ASSIGNED EC PROD PRAC LEVEL = 0234 (MRS)

ECA	EC NO	ECA STATUS	FLD B/M	EIT	QTY	FCSI	DATE
016	734368	INSTALLED					
017	734231	INSTALLED					
018	734382	INSTALLED					
019	734372	INSTALLED					
021	734068	INSTALLED					



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 TYPE C NUMBER TYPE NUMBER B/O CTY NUMBER CD TPC-CD SHIP MFG CTL STATUS  
 3420 A 0068029 8888 8701000 0510 6177908 79-05-11 TUC. TUC. SKM W/EC

N/A = ECA NOT ASSIGNED EC PROD PRAC LEVEL = 0234 (MRS)

ECA HISTORY SECTION

ECA	EC NO	ECA STATUS	FLD B/M	EIT	QTY	FCSI	DATE
022	734280	NOT REQUIRED					
023	734244	INSTALLED					
024	734392	INSTALLED					
025	734395	INSTALLED					
026	734391	INSTALLED					
028	734369	INSTALLED					
029	734456	INSTALLED					
030	734467	INSTALLED					
031	734468	INSTALLED					
032	734743	INSTALLED					
033	734466	INSTALLED					
034	734469	INSTALLED					
036	734288	INSTALLED					
037	734504	NOT REQUIRED					
038	734483	INSTALLED					
039	734507	INSTALLED					
040	734506	INSTALLED					
041	734755	INSTALLED					
042	734754	INSTALLED					
043	734470	INSTALLED					
044	734762	INSTALLED					
045	734760	INSTALLED					
046	734741	INSTALLED					
046	734741D	INSTALLED					
047	734763	INSTALLED					
048	734532	INSTALLED					
049	734945	INSTALLED					
050	735881	INSTALLED					
051	734941	INSTALLED					
052	735643	INSTALLED					
053	734952	INSTALLED					
054	734953	INSTALLED					
055	734956	INSTALLED					
056	734874	NOT REQUIRED					
058	734949	NOT REQUIRED					
059	734954	NOT REQUIRED					
060	736028	NOT REQUIRED					
062	736036	INSTALLED					
063	736803	INSTALLED					
064	736932	INSTALLED					
065	735613	INSTALLED					
067	736619	INSTALLED					
068	735815	INSTALLED					
070	736828	INSTALLED					
071	736992	NOT REQUIRED					

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 3420 A 0068029 8008 8701000 0510 6177908 79-05-11 TUC. TUC. SWN W/EC

N/A = ECA NOT ASSIGNED EC PROD PRAC LEVEL = 0234 (MRS)

ECA HISTORY SECTION

ECA	EC NO	ECA STATUS	FLD B/M	EIT	QTY	FCSI	DATE
072	735635	INSTALLED					
073	735817	INSTALLED					
074	736683A	INSTALLED					
075	735818	INSTALLED					
076	735166	INSTALLED					
077	737013	NOT REQUIRED					
078	733222	INSTALLED					
080	443668	INSTALLED					
081	443662	INSTALLED					
082	443670	INSTALLED					
083	443664	INSTALLED					
084	443694	INSTALLED					
085	443693	INSTALLED					
086	443690	INSTALLED					
087	443911	INSTALLED					
094	443699	NOT REQUIRED					
095	449022	INSTALLED					
096	449014	INSTALLED					
097	443935	INSTALLED					
101	449068	INSTALLED					
102	449037	INSTALLED					
103	845992	TO BE ADDED					
104	449092	NOT REQUIRED					
106	449093	INSTALLED					
108	449080	NOT REQUIRED					
109	845982	NOT REQUIRED					
110	846163	INSTALLED					
111	846684	INSTALLED					
112	846320	INSTALLED					
113	846437	TO BE ADDED					
114	846916	TO BE ADDED					
115	847217	OPTIONAL CHG NOT INST					
116	847216	OPTIONAL CHG NOT INST					
117	847202	INSTALLED					
118	847262	TO BE ADDED					
119	847839	TO BE ADDED					
120	847861	INSTALLED					
121	847234	OPTIONAL CHG NOT INST					
121	847234B	OPTIONAL CHG NOT INST					
122	847863	TO BE ADDED					
123	847285	OPTIONAL CHG NOT INST					
124	847857A	TO BE ADDED					
127	847849	INSTALLED					
129	467606	OPTIONAL CHG NOT INST					
130	467579	WRITTEN					

6.851706 000.7 001 916992 850116

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MACHINE HISTORY

DATE 85-03-08

PAGE 7

MACH M SERIAL SYST SYSTEM F/E W/T CUST MD MICRO BOX MACHINE PLT PLT MACHINE  
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 3420 A 0068029 8888 8701000 0510 6177908 79-05-11 TUC. TUC. SKM M/EC

ECA HISTORY SECTION N/A = ECA NOT ASSIGNED EC PROD PRAC LEVEL = 0234 (MPS)

ECA	EC NO	ECA STATUS	OPTIONAL CHG	NOT INST	FLD B/M	EIT	QTY	FCSI	DATE
N/A	11111	OPTIONAL CHG	NOT INST						
N/A	22222	INSTALLED							
N/A	33333	NOT REQUIRED							
N/A	44444	NOT REQUIRED							
N/A	55555	INSTALLED							
N/A	66666	NOT REQUIRED							
N/A	77777	NOT REQUIRED							
N/A	88888	NOT REQUIRED							
N/A	99999	NOT REQUIRED							
N/A	10101	TO BE ADDED							
N/A	11112	NOT REQUIRED							
N/A	12121	NOT REQUIRED							
N/A	13131	NOT REQUIRED							
N/A	14141	NOT REQUIRED							
N/A	15151	NOT REQUIRED							
N/A	16161	NOT REQUIRED							
N/A	17171	INSTALLED							
N/A	18181	INSTALLED							
N/A	19191	INSTALLED							
N/A	20201	NOT REQUIRED							
N/A	21211	NOT REQUIRED							
N/A	22221	NOT REQUIRED							
N/A	23231	NOT REQUIRED							
N/A	24241	NOT REQUIRED							
N/A	25251	NOT REQUIRED							
N/A	26261	NOT REQUIRED							
N/A	27271	NOT REQUIRED							
N/A	28281	NOT REQUIRED							
N/A	29291	NOT REQUIRED							
N/A	30301	NOT REQUIRED							
N/A	31311	NOT REQUIRED							
N/A	32321	NOT REQUIRED							
N/A	33331	NOT REQUIRED							
N/A	34341	NOT REQUIRED							
N/A	35351	NOT REQUIRED							
N/A	36361	NOT REQUIRED							
N/A	37371	NOT REQUIRED							
N/A	38381	NOT REQUIRED							
N/A	39391	NOT REQUIRED							
N/A	40401	NOT REQUIRED							
N/A	41411	NOT REQUIRED							
N/A	42421	NOT REQUIRED							
N/A	43431	NOT REQUIRED							
N/A	44441	NOT REQUIRED							
N/A	45451	NOT REQUIRED							
N/A	46461	NOT REQUIRED							
N/A	47471	NOT REQUIRED							
N/A	48481	NOT REQUIRED							
N/A	49491	NOT REQUIRED							
N/A	50501	NOT REQUIRED							
N/A	51511	NOT REQUIRED							
N/A	52521	NOT REQUIRED							
N/A	53531	NOT REQUIRED							
N/A	54541	NOT REQUIRED							
N/A	55551	NOT REQUIRED							
N/A	56561	NOT REQUIRED							
N/A	57571	NOT REQUIRED							
N/A	58581	NOT REQUIRED							
N/A	59591	NOT REQUIRED							
N/A	60601	NOT REQUIRED							
N/A	61611	NOT REQUIRED							
N/A	62621	NOT REQUIRED							
N/A	63631	NOT REQUIRED							
N/A	64641	NOT REQUIRED							
N/A	65651	NOT REQUIRED							
N/A	66661	NOT REQUIRED							
N/A	67671	NOT REQUIRED							
N/A	68681	NOT REQUIRED							
N/A	69691	NOT REQUIRED							
N/A	70701	NOT REQUIRED							
N/A	71711	NOT REQUIRED							
N/A	72721	NOT REQUIRED							
N/A	73731	NOT REQUIRED							
N/A	74741	NOT REQUIRED							
N/A	75751	NOT REQUIRED							
N/A	76761	NOT REQUIRED							
N/A	77771	NOT REQUIRED							
N/A	78781	NOT REQUIRED							
N/A	79791	NOT REQUIRED							
N/A	80801	NOT REQUIRED							
N/A	81811	NOT REQUIRED							
N/A	82821	NOT REQUIRED							
N/A	83831	NOT REQUIRED							
N/A	84841	NOT REQUIRED							
N/A	85851	NOT REQUIRED							
N/A	86861	NOT REQUIRED							
N/A	87871	NOT REQUIRED							
N/A	88881	NOT REQUIRED							
N/A	89891	NOT REQUIRED							
N/A	90901	NOT REQUIRED							
N/A	91911	NOT REQUIRED							
N/A	92921	NOT REQUIRED							
N/A	93931	NOT REQUIRED							
N/A	94941	NOT REQUIRED							
N/A	95951	NOT REQUIRED							
N/A	96961	NOT REQUIRED							
N/A	97971	NOT REQUIRED							
N/A	98981	NOT REQUIRED							
N/A	99991	NOT REQUIRED							
N/A	10001	NOT REQUIRED							

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INDIVIDUAL TABLE OF CONTENTS

85/03/08 PAGE 1

VOLUME MACHINE 3420-A-0068029 MODEL 006 SYSTEM 8701000 MODE BOX SHIP 00/00/00

LOGIC TYPE -6- BOARDS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
AA1		CUSTOMIZED BOARD ASH	0001845800	735818	.N. 0001845811

TOTAL PART NUMBERS THIS VOLUME 1

LOGIC TYPE -1- OTHER SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
AA001		SOCKET LISTING	0001848069	467579A	.M. 0001845812
A6106		PIN PLUG 01-ALL2	0001845308	467579	.N. 0001845812
CM001		SYS DIA CAP MOTOR BD	0004449676	846320	.M. 0001845812
FT101		INTERFACE LINES BUSS	0001848070	735813	.M. 0001845812
FT102		INTERFACE LINES BUSS	0001848071	735813	.M. 0001845812
FT111		WRITE STATUS DRIVE E	0001848072	735810	.M. 0001845812
FT112		SENSE RESET-POWER ON	0001848073	734800	.M. 0001845812
FT113		MULTIPLEXING BUSES	0001848074	735810	.M. 0001845812
FT114		UNIT CHECK-MECH READ	0001848075	734800	.M. 0001845812
FT115		MULTIPLEXING BUSES	0001848076	735810	.M. 0001845812
FT116		INTERRUPT GENERATION	0001848077	846163	.M. 0001845812
FT131		TERMINATORS-PULSED I	0001848078	734800	.M. 0001845812
FT132		DEGAUSS-WRITE SELECT	0001848079	735811	.M. 0001845812
FT133		WRITE DATA GATING AH	0001848080	735813	.M. 0001845812
FT134		INTERFACE DECODING	0001848081	736828	.M. 0001845812
FT135		EOT	0001848082	734800	.M. 0001845812
FT141		READ SEL METERING-TA	0001848083	735812	.M. 0001845812
FT142		I D GATING BUSES 0&	0001848084	735810	.M. 0001845812
FT143		I D GATING BUSES 2&	0001848085	735810	.M. 0001845812
FT144		I D GATING BUSES 4&	0001848086	735810	.M. 0001845812
FT145		I D GATING BUSES 6&	0001848087	735810	.M. 0001845812
FT146		BUS IN GATE	0001848088	735810	.M. 0001845812
FT147		LOOP GATING-BUSS MER	0001848089	735810	.M. 0001845812
FT148		INTERFACE BUS IN	0001848090	734000	.M. 0001845812
FT181		ERASE STATUS LATCH S	0001848091	735813	.M. 0001845812
FT182		ALT DENSITY-SAGC LAT	0001848092	847861	.M. 0001845812
FT183		ZERO THRESHOLD-TIME	0001848093	735813	.M. 0001845812
FT184		0-THRESHOLD MTLPLX	0001848232	735813	.M. 0001845812
FT231		PHOTO DETECTION	0001848094	846320	.M. 0001845812
FT261		REMIINO-UNLOAD	0001848095	735811	.M. 0001845812
FT262		HI SPEED FIELD CONTR	0001848096	735812	.M. 0001845812
FT263		OP PANEL PUSH BUTTON	0001848097	734800	.M. 0001845812
FT264		COLUMNS UNLOADED/LOA	0001848098	735818	.M. 0001845812
FT265		MANUAL STATUS CONTRO	0001848099	735812	.M. 0001845812
FT266		CART INTERLOCK-MACH	0001848100	734801	.M. 0001845812
FT281		CART-TAPE PRESENT	0001848101	734801	.M. 0001845812
FT282		PNEU DRIVE-LOAD REWI	0001848102	735817	.M. 0001845812
FT283		WINDOW DOWN-CHANNEL	0001848103	735812	.M. 0001845812
FT284		LOAD OP-THREAD STATU	0001848104	735811	.M. 0001845812
FT285		LOAD CHECK	0001848105	734800	.M. 0001845812
FT301		GRAY CODE COUNTER	0001848106	735810	.M. 0001845812
FT302		16 COUNT GENERATION	0001848107	735811	.M. 0001845812
FT303		DIRECTION SENSING	0001848108	735815	.M. 0001845812
FT304		CREASE TAPE CONTROL	0001848109	735818	.M. 0001845812
FT311		4 KHZ OSC TACH PERIO	0001848111	735811	.M. 0001845812
FT312		TACH PULSE COUNTER	0001848112	735812	.M. 0001845812
FT313		ROS	0001848113	734801	.M. 0001845812
FT314		SAMPLED TPC EQUAL	0001848114	735812	.M. 0001845812
FT315		TPC COMPARE	0001848115	735810	.M. 0001845812
FT321		STOP LOCK AND PDC-PH	0001848117	735815	.M. 0001845812
FT322		GATED EQUAL TP STOP	0001848118	443078	.M. 0001845812
FT323		AUTO CLEANER CONTROL	0001848119	735817	.M. 0001845812

LOGIC TYPE -1- OTHER SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/H/S
FT324		PROPORTIONAL DRIVE C	0001848120	735816	.N. 0001845812
FT331		GO GENERATION-LD PT	0001848122	443935	.M. 0001845812
FT332		IGG COUNTER & DECODE	0001848123	443935	.M. 0001845812
FT333		ALLOW EXTENDED GO	0001848124	443978	.M. 0001845812
FT334		FORWARD HITCH CONTRD	0001848125	735812	.N. 0001845812
FT341		PDC PRESET	0001848128	443935	.N. 0001845812
FT342		PDC COUNTER	0001848129	735810	.M. 0001845812
FT343		PDC DECODING	0001848130	735811	.M. 0001845812
FT344		POLARITY HOLD DRIVE	0001848131	734801	.M. 0001845812
FT345		DAC GATING & REMIND	0001848132	735814	.M. 0001845812
FT451		LEFT & RIGHT REEL CO	0001848133	734800	.M. 0001845812
FT452		LEFT REEL CONTROL	0001848134	734800	.M. 0001845812
FT453		RIGHT REEL CONTROL	0001848135	734800	.M. 0001845812
FT454		LEFT & RIGHT REEL DR	0001848136	735811	.M. 0001845812
FT455		HI SPEED CAPSTAN CON	0001848137	734800	.M. 0001845812
FT910		SERVICE WIRING	0001848138	846320	.M. 0001845812
RH001		SYS DIA REEL MOTR BD	0004449677	846320C	.M. 0001845812
TI001		FIELD TESTER LOGIC	0001766791	734303F	.N. 0001845812
WB011		READ WRITE	0001848139	847861	.M. 0001845812
WB012		READ WRITE	0001848140	735810	.M. 0001845812
WB021		CAPSTAN REEL DRIVE L	0001848141	735810	.M. 0001845812
WB022		LAMP DRIVE-PHOTO SEN	0001848142	735810	.M. 0001845812
HK001		INTERFACE-FE TESTER	0001846950	735810	.M. 0001845812
XR001		READ CARD REF	0001766780	735827	.M. 0001845812
XH001		WRITE DRIVER & ERASE	0001766781	846320	.M. 0001845812
YA001		468 PWR SPLY LOG TAB	0004449681	847861A	.M. 0001845812
YC021		NSC CARD	0001845798	846320	.M. 0001845812
YC021 1		MANUAL STATUS CARD	0002524488	846320	.M. 0001845812
YC031		TRAN VALVE SOLENOID	0001766799	449022	.M. 0001845812
YF010 1		PRIMARY POWER 60HZ	0001767851	846320	.M. 0001765813
YF010 2		PRIMARY POWER 60HZ	0001767919	846320	.M. 0001765013
YF020		DRIVE DC 60HZ	0001767837	846320	.M. 0001765813
YF020 1		DRIVE DC 60HZ	0001767852	846320	.M. 0001765813
YF020 2		DRIVE DC 60HZ	0001767920	846320	.M. 0001765813
YF030		DRIVE AC & -48 60HZ	0001767838	846320	.M. 0001765813
YF030 2		DRIVE AC & -48 60HZ	0001767853	846320	.M. 0001765813
YF030 3		DRIVE AC & -48 60HZ	0001767921	846320	.M. 0001765813
YF036		COMPONENT CHART	0001767841	846320	.M. 0001845812
YF040		4&6 DC AND BOOSTER	0001767854	846320	.M. 0001845812
YF040 2		DC & BOOSTER 60 HZ	0001767922	846320	.M. 0001765813
YF050		SYS COMPONENT CHART	0001767855	846320	.M. 0001765813
YF060		INTERFACE BOARD	0001767056	846320	.M. 0001845812
ZT001		USAGE METER	0001766784	846320	.M. 0001845812
ZT011		OP PANEL & VAC SWITC	0001766785	847861	.M. 0001845812
ZT021		SYS DIA FNR WINDM BD	0004449679	847861A	.M. 0001845812
ZT031		SCHEMATIC - REFERENC	0001766787	846320	.M. 0001845812
ZT041		GROUND DISTRIBUTION	0001766788	846320	.M. 0001845812
ZT051 1		DC DISTRIBUTION	0001766789	846320	.M. 0001845812
ZT051 2		DC DISTRIBUTION	0001845796	846320	.M. 0001845812
ZT061		SVS DIAG CARTRIDGE 0	0001766790	846320	.M. 0001845812
ZT071		NFP SWITCH & WRITE E	0001845787	734768	.M. 0001845812

TOTAL PART NUMBERS THIS MACHINE

104

TOTAL PART NUMBERS THIS VOLUME

103

3420 MODELS 004, 006, 008  
LOGIC PAGE P/N 1848069

CARD LOCATION LISTING  
BOARD  
01A-A1

PAGE AA001  
FOR LOGIC  
BOARDS P/N  
1845800/  
4452346/  
4450286/  
4469382

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	8216710	FT451 THROUGH FT455	
	6775	8218286	ALTERNATE PART NO.	
	6775	8565079	FOR ECA 122 EC 847863	
01A-A1C2	6776	8218294	FT261 THROUGH FT266	
	6776	8565083	FOR ECA 121 EC 847234B OR ECA 129 EC 467606	(BOARD WIRING REQUIRED)
01A-A1D1	CONN.		WB021	
01A-A1D2	0763	8216716	FT231	
	0763	8565075	ALTERNATE PART NO.	(NOTE 1)
01A-A1D4	6778	8216709	FT281 THROUGH FT285	
	6778	8565068	FOR ECA 113 EC 846437	(BOARD WIRING REQUIRED)
01A-A1E1	CONN		WB021	
01A-A1E2	Z024	8237083	FT341 THROUGH FT345	
	Z024	8237084	FOR EC 735814	
	Z024	8250221	FOR ECA 097 EC 443935	
01A-A1F1	CONN		WB021	
01A-A1F2	Z023	8237074	FT331 THROUGH FT334	
	Z023	8250992	FOR EC 443878	
	Z023	8250220	FOR ECA 097 EC 443935	
01A-A1G1	CONN		WB021	

LATEST EC IS 467579A - SEE LAST SHEET FOR EC HISTORY

SHEET 1 OF 3



3420 MODELS 004, 006, 008  
LOGIC PAGE P/N 1848069

CARD LOCATION LISTING  
BOARD  
01A-A1

PAGE AA001  
FOR LOGIC  
BOARDS P/N  
1845800/  
4452346/  
4450286/  
4469382

LOCATION	TYPE	PART NO.	PAGES	COMMENT***
01A-A1G2	Z022	8237063	FT321 THROUGH FT324	
	Z022	8237064	FOR EC 735816	
	Z022	8237065	FOR ECA 073 EC 735817	(BOARD WIRING REQUIRED)
	Z022	8565071	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	8216711	FT131 THROUGH FT135	
	6783	8218291	FOR ECA 021 EC 734068	
01A-A1K1	CONN		FT910, WB011	
01A-A1K2	2298	8236280	FT181 THROUGH FT184	
	2298	8237090	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	8218287	FT111 THROUGH FT116	
	6777	8565057	FOR ECA 110 EC 846163	
01A-A1N1	CONN		FT910	
01A-A1N2	CONN		FT910, WK001	

LATEST EC IS 467579A - SEE LAST SHEET FOR EC HISTORY

SHEET 2 OF 3

3420 MODELS 004, 006, 008  
 LOGIC PAGE P/N 1848069

CARD LOCATION LISTING  
 BOARD  
 01A-A1

PAGE AA001  
 FOR LOGIC  
 BOARDS P/N  
 1845800/  
 4452346/  
 4450286/  
 4469382

LOCATION	TYPE	PART NO.	PAGES	COMMENT***
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 OR 467579	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
06MAR84	467579
11MAY84	467579A

C

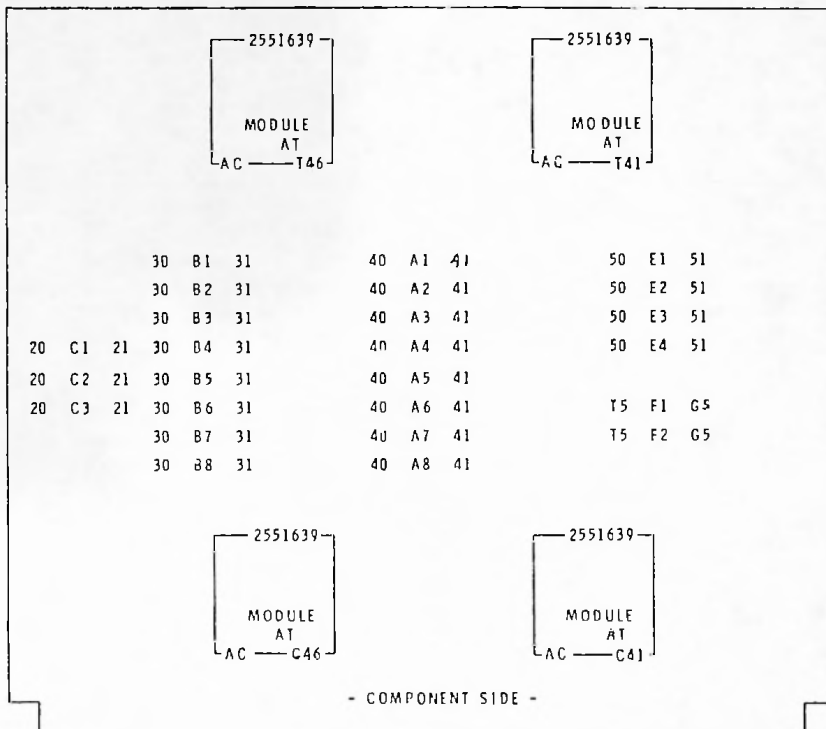
1845808

MACH 3420-RP  
PIN PLUGGING INFORMATION FOR 2299 CARD (01-ALL2)  
VER 000

1845808

A6106

SHEET 1 OF 2



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+52+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 INFORMATION			10SEP73	735811	11JAN84	467579
DESIGN	DJ	10FER78	SHT 1 OF 2	10MAR78	449087		
DETAIL	JL	8MAR78		22MAY80	846320		
CHECK	JRC			12JUN81	846320C		
APPRO		N-DJ	10FEB78	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
						LOGIC PG NO	
						A6106	

1845808

C

C

1845808

MACH 3420-RP  
MODEL IDENTIFICATION WIRING  
VER 000

1845808

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

## READ CARD POWER DISTRIBUTION MODELS 4-6-8

THIS WIRING WAS ADDED BY MANDATORY E. C. 467579. IF THE BOARD IS REPLACED IN THE FIELD, ASSURE THAT THE WIRES ARE INSTALLED ON THE REPLACEMENT BOARD. THESE WIRES ARE TO BE WIRE WRAPPED IN ADDITION TO THE PRINTED WIRING WHICH MAY BE ON THE BOARD.

FUNCTION	NET	FOR MODEL 4 OR 6 OR 8			
-4 VOLTS	FT910CA4	FROM	M3B06	TO	N3D07
		FROM	N3D07	TO	N3D03
		FROM	M3B06	TO	N3D02
THIS NET INCLUDES A WIRE FROM N3D03 TO N3D05. THIS WIRE SHOULD ALREADY BE WIRE WRAPPED ON ANY BOARD SHIPPED AT ANY E. C. LEVEL.					
-4 VOLTS	FT910DB4	FROM	L1C09	TO	L1A09
		FROM	L2B06	TO	L1E09
		FROM	K1E09	TO	L2B06
		FROM	L1C09	TO	L1E09
+6 VOLTS	FT910DH4	FROM	N1A11	TO	M1E11
		FROM	M2B11	TO	M1E09
		FROM	M2B11	TO	N1A11

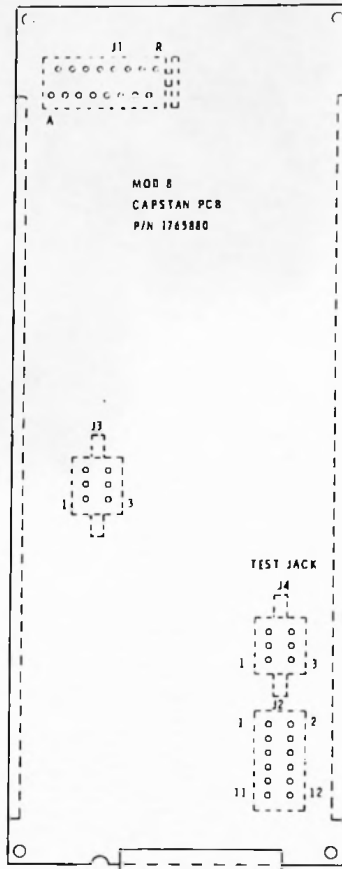
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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	PLUGGING AND WIRING	10SEP73	735811	11JAN84	467579
INFORMATION		10MAR78	449087		
DESIGN	SHT 2 OF 2	22MAY80	846320		
DETAIL		12JUN81	846320C		
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	N-DJ 10FEB78			LOGIC PG NO	
					A6106

1845808

C

CAPSTAN MOTOR BOARD  
3420 MOD 4-6-8



P/N 1846173

P/N 1846173

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

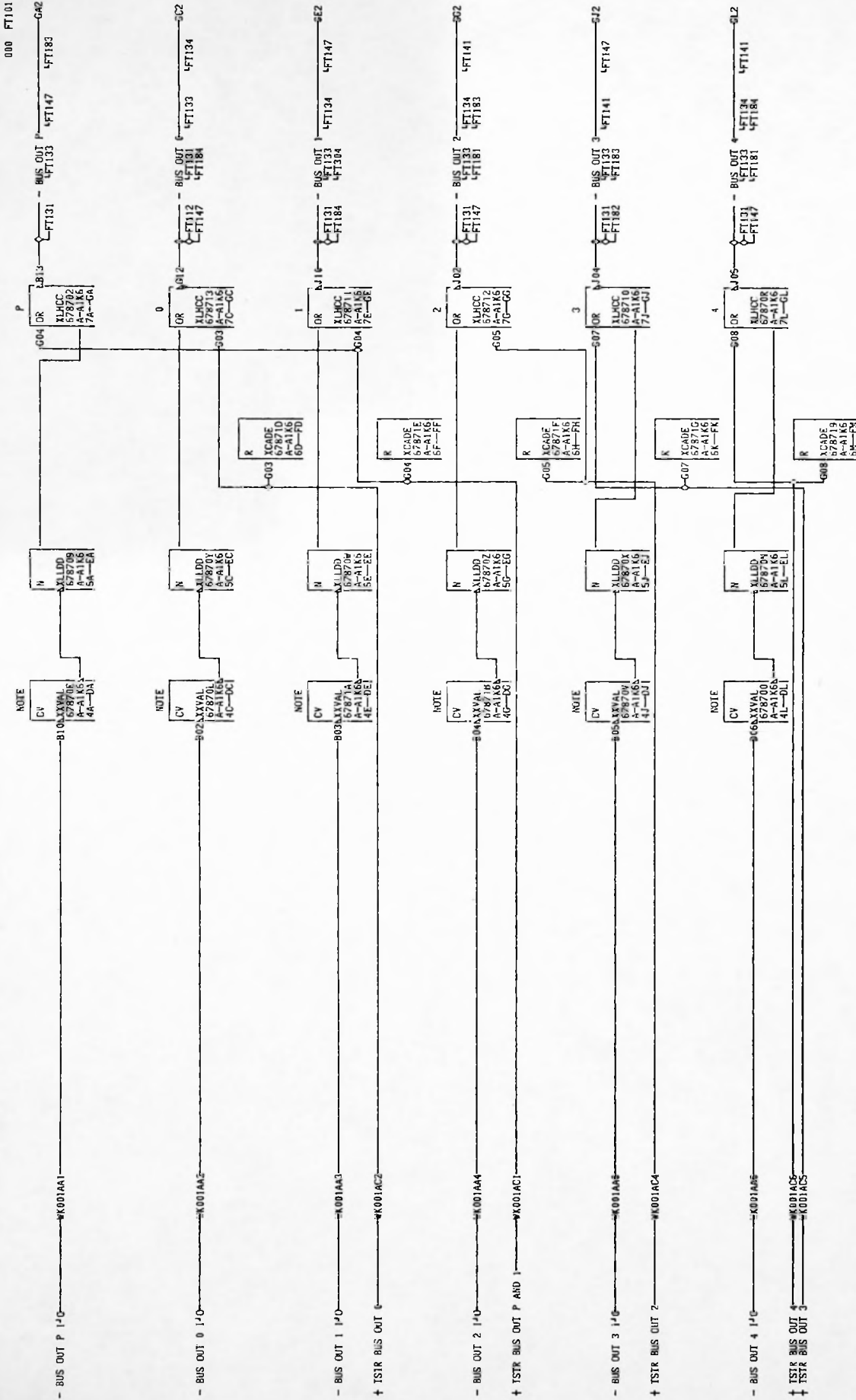
PIN	SIGNAL NAME
1	+12V TEST JACK
3	-12V TEST JACK

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

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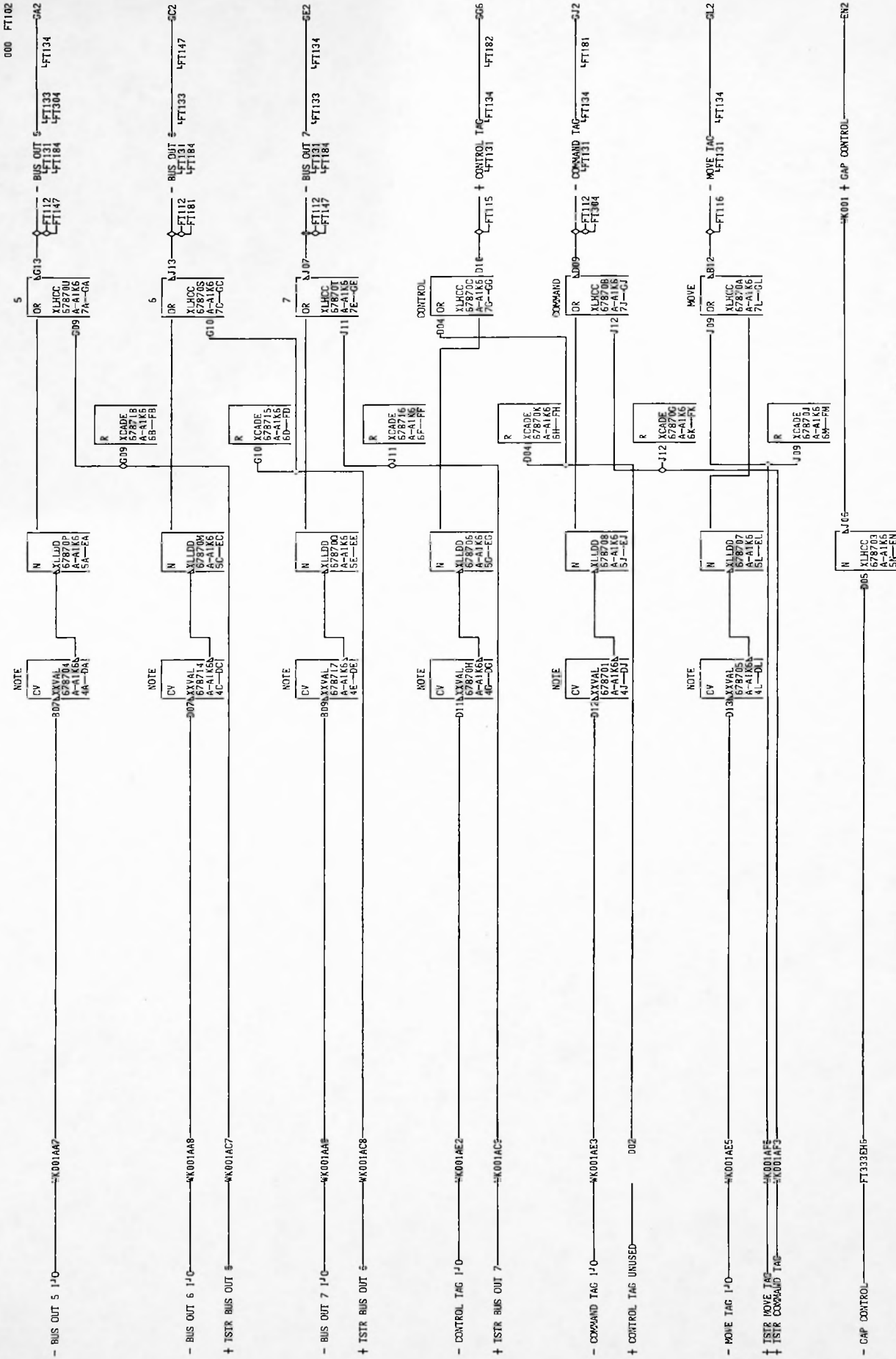
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM CAPSTAN			22MAY80	846320		
MOTOR BOARD							
DESIGN	GS	8NOV79	8HT 1 OF 1				
DETAIL	GDI						
CHECK	AR	19JAN80	CLASSIFICATION	MUST CONFORM TO ENG. SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO							



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

NOTE  
SPECIAL LEVELS\*  
F 44.4 TO CHD DAD DDD  
1 DED 000 DUD DLD

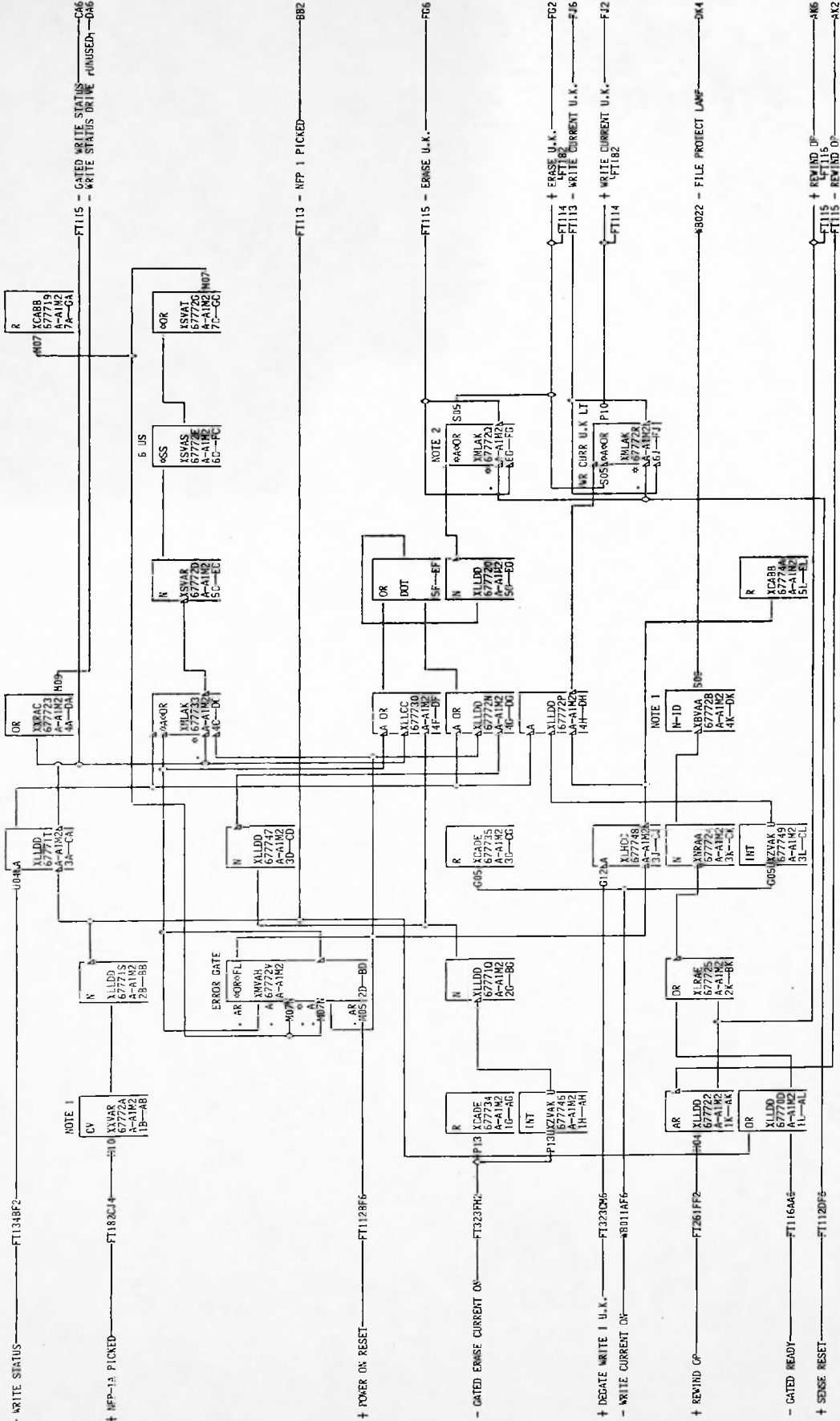
INTERFACE LINES FROM CONTROL	
UNIT, BUSES	
DATE 12-07-73 MACH. 3420-RP	
LOG	
0035 FRAME	01
P.N. 1848070	000
IBM COMP. CO. BLK.	GM



01-21-73 734500  
 11-28-73 735813

NOTE  
 SPECIAL LEVELS  
 F 4.4 TO GND DAD DCD  
 T DAD DCD DJD DLD

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  
 IBM COMP. CO BLK. 000

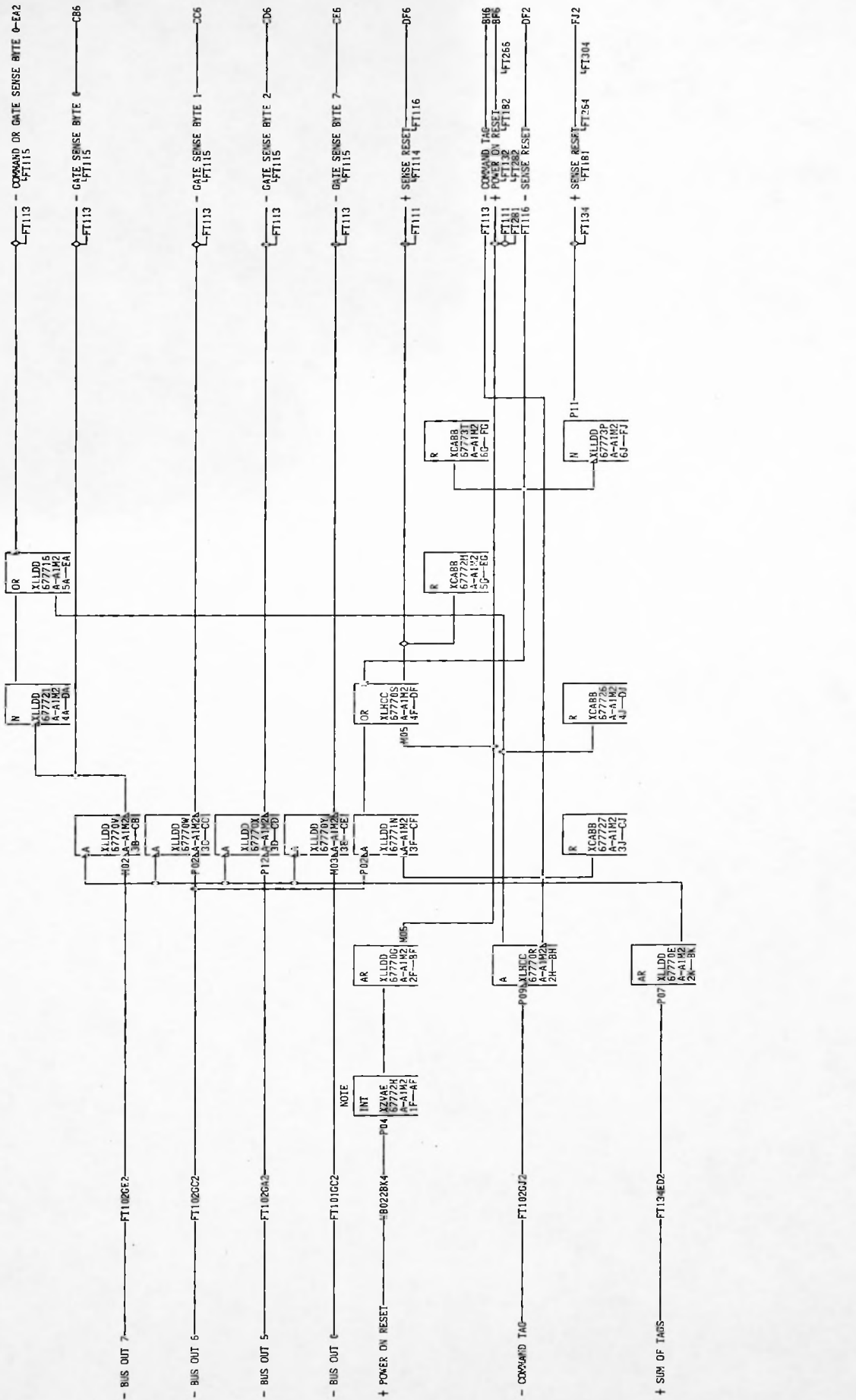


WRITE STATUS DRIVE  
 ERASE STATUS DIRECT  
 DATE 06-13-81 MCH. 389-RP  
 LOG 0119 FRAME D111  
 P.N. 1848072 000  
 IBM COMP. CO BLK. CF

01-21-73 734800  
 06-14-73 715810

NOTE 1  
 ALL LEVELS  
 F 40 TO GND DMS ARD  
 T 41 TO GND DMS  
 NOTE 2  
 ERASE U.K. OR WRITE  
 CURRENT DRAWING  
 WRITE OPERATION

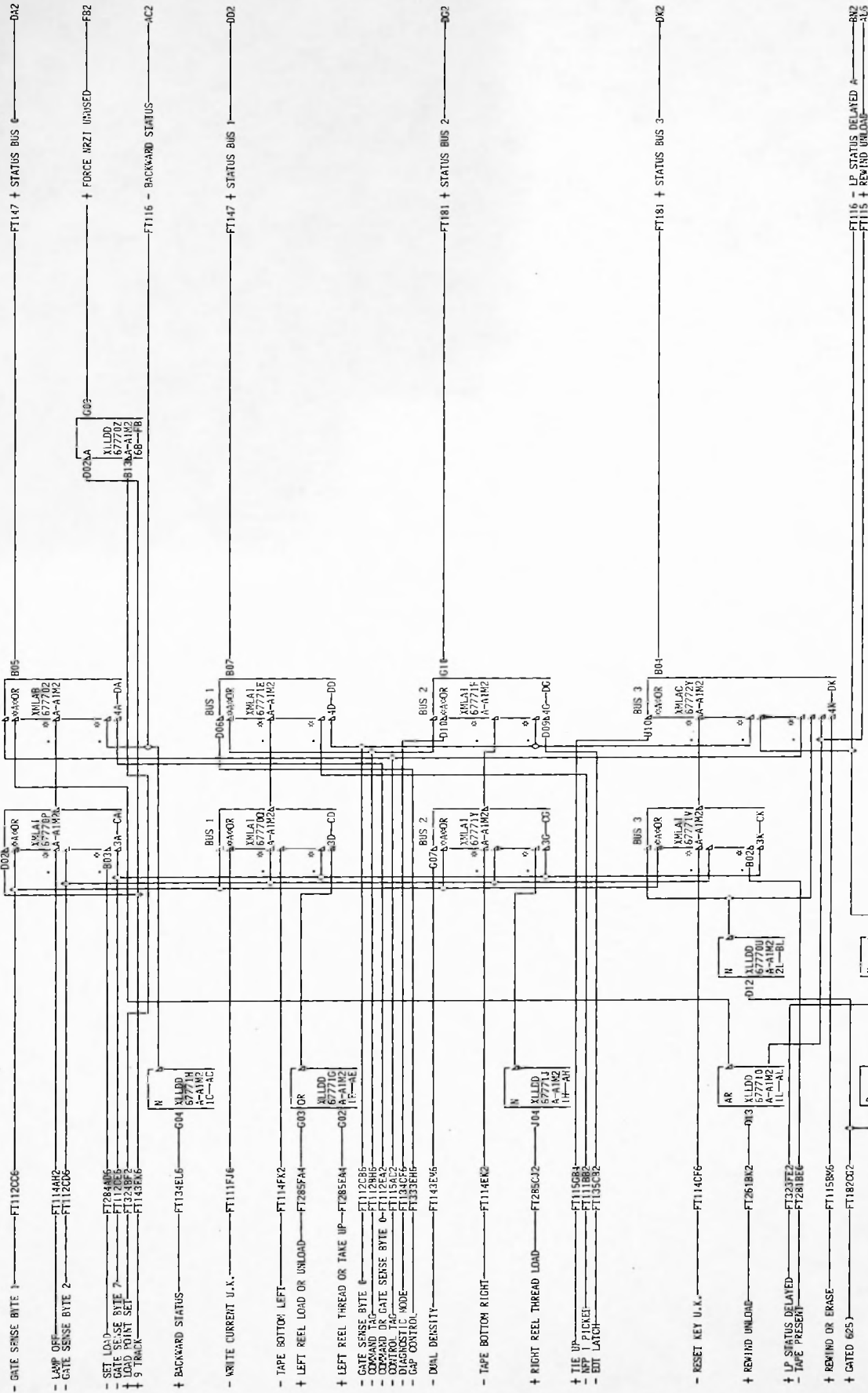




NOTE: SPECIAL LEVELS\* AND TO -415 AND

01-21-73 73-800

SENSE RESET POWER ON RESET	F
SENSE DECODE 0010235	F
DATE 85-10-73 MACH. 312-PP	1
LOG 0117 FRANK	01 1 2
P.N. 1848073	000
IBM CORP. CO BLK.	FX



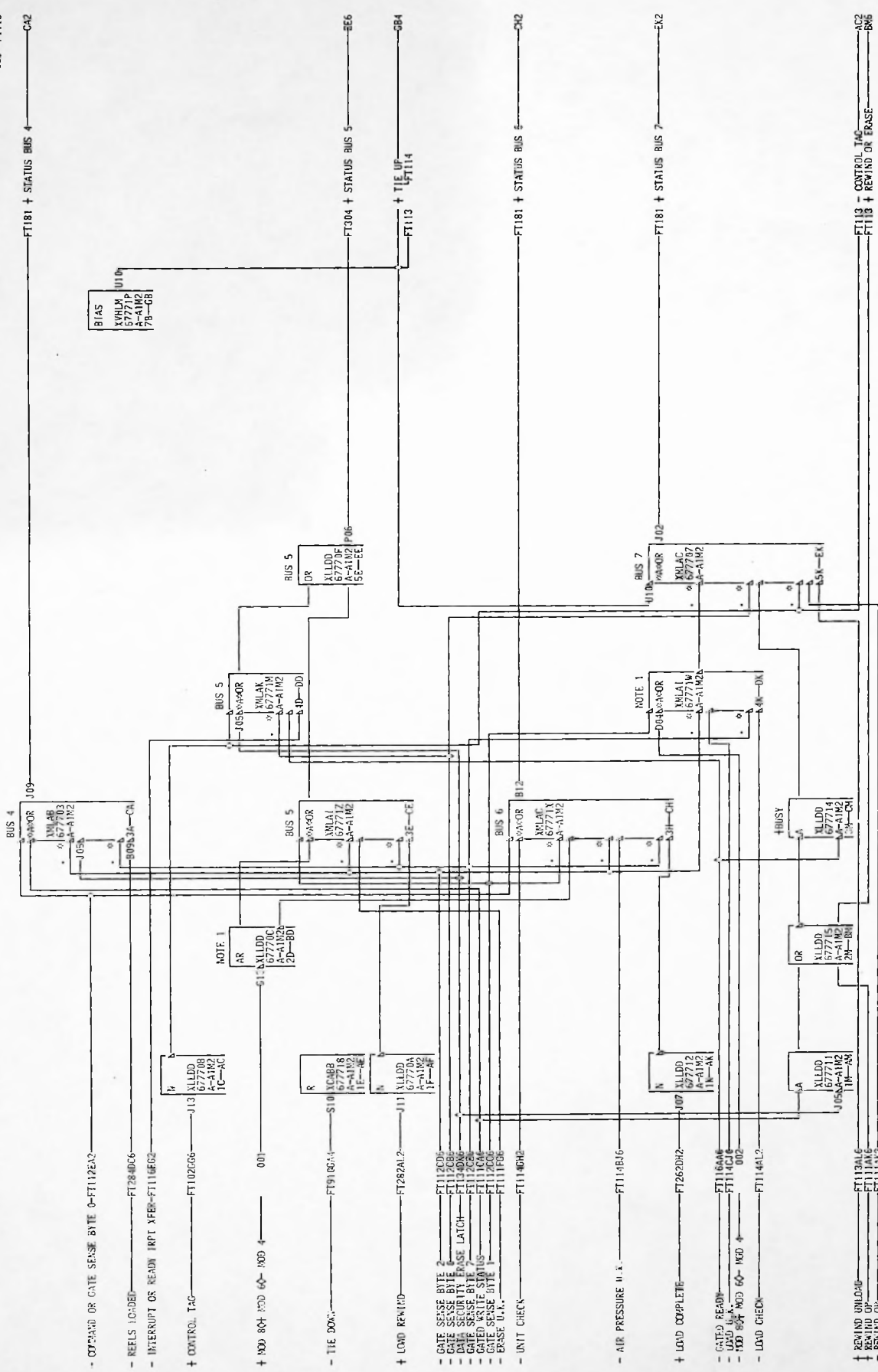
01-21-73 734800  
05-11-73 735810

STATUS MULTIPLEXING BUSES (0-3)	F	T	1	1	3
DATE 07-13-81 MACH. 342D-RP					
LOG 0119 FRAME 01					
P.N. 1848074					
IBM CORP. CO BLK.					
000					



FT181 + STATUS BUS 4 - C42

BIAS  
XHLK  
67771P  
A-A1M2  
7B-CB



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

NOTE 1  
SEE PAGE #6106  
FOR MODEL WIRING

STATUS MULTIPLEXING BUSES 4-7	F	1	5
DATE 07-13-81 MACH. 3420-RP			
LCC 0119 FRAME 01			
P.N. 1848076			
IBM CORP. CO. BLK.			
000			

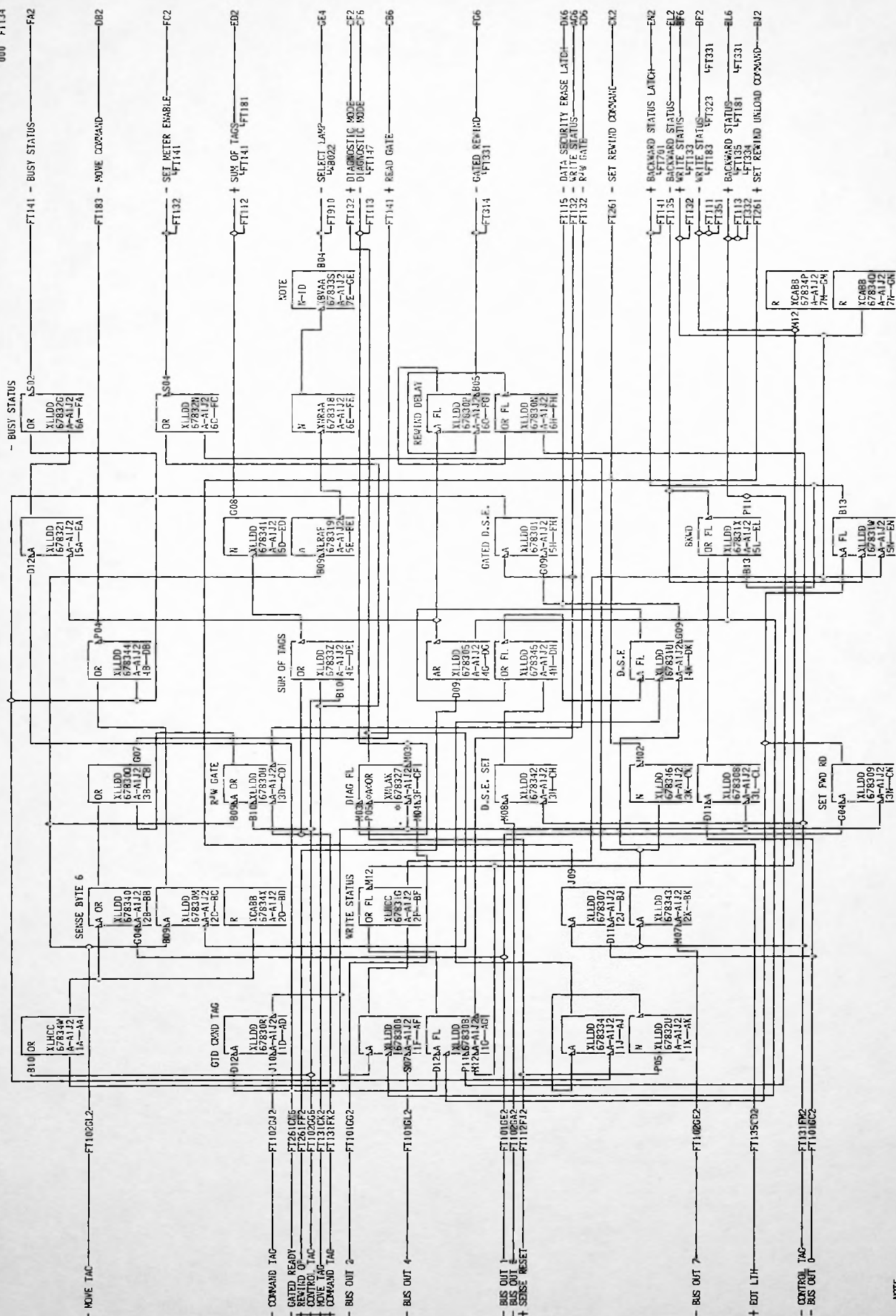






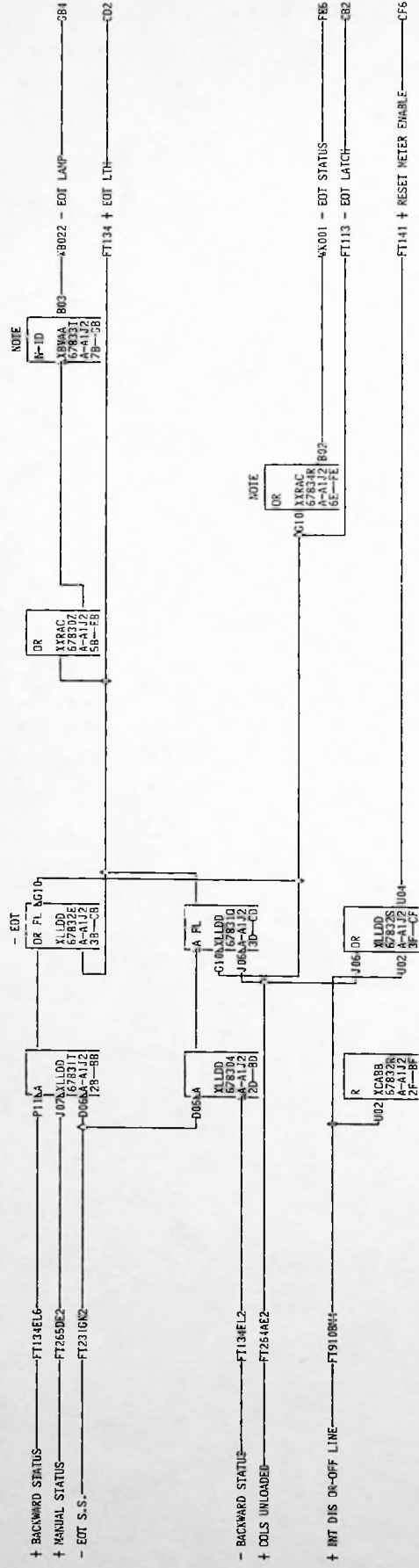






01-21-73 734801  
 08-15-73 735810  
 03-06-74 736823

NOTE  
 SPECIAL LEVELS\*  
 F H12 TO GND GE4  
 1  
 2  
 3  
 4  
 000

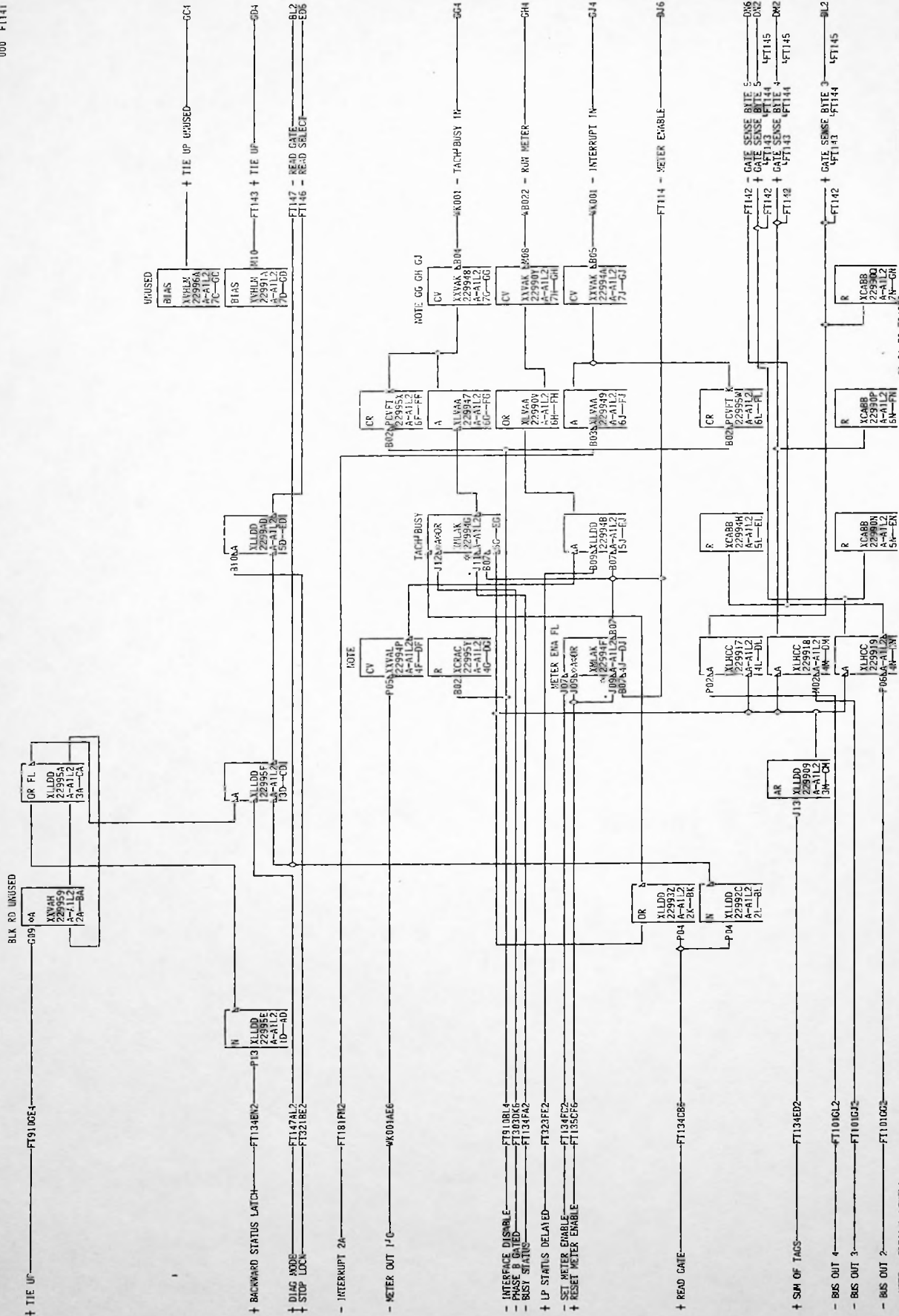


01-21-73 734800

NOTE - SPECIAL LEVELS:  
 #12 TO CRD CREW  
 #15 TO CRD FE6

NOTE  
 DATE 07-13-81 MACH. 3420-RP  
 LOG 0117 FRAME 01 5  
 P.N. 1848082  
 IBM COMP. CO BLX. CRO 000

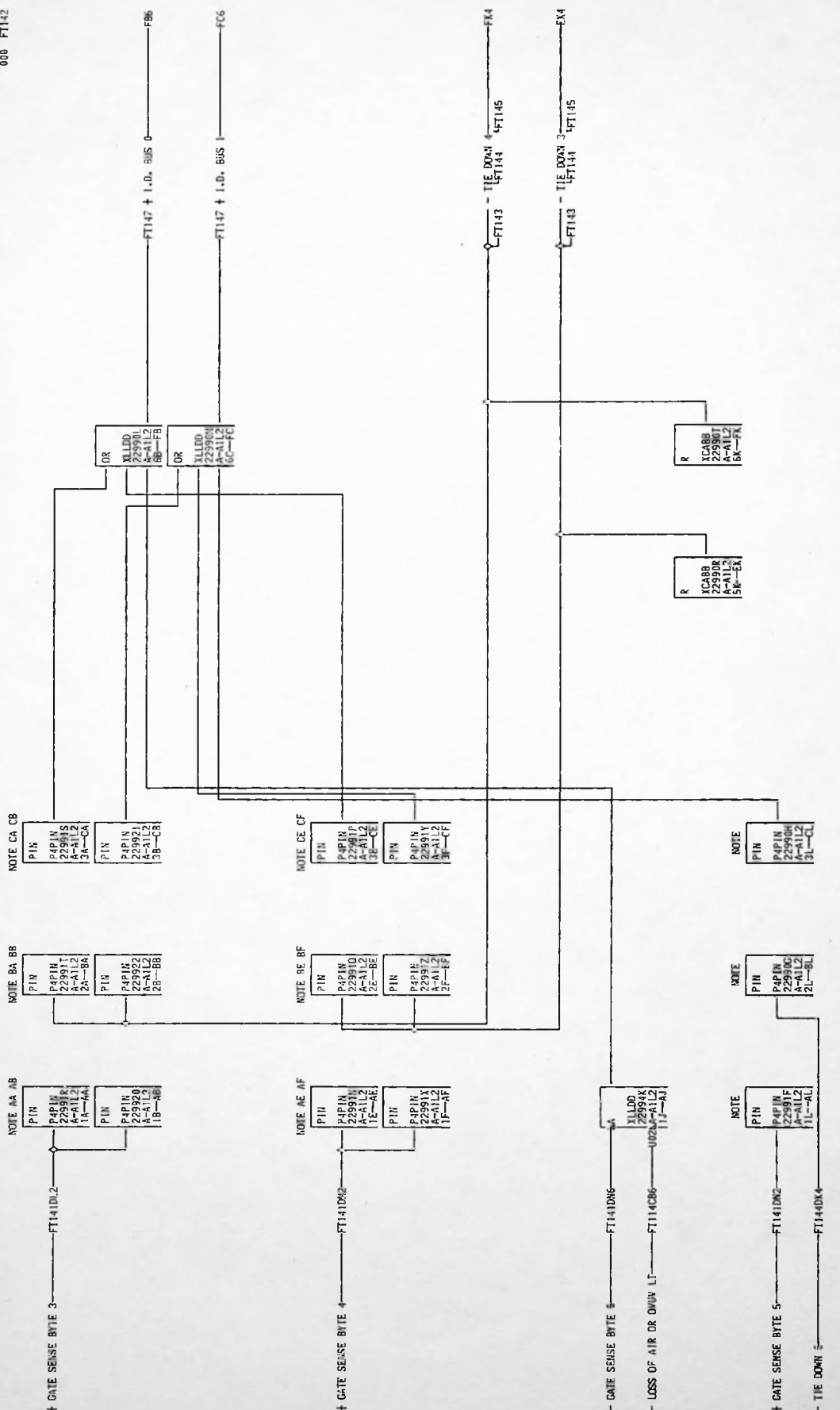
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READ SELOMETER MACH BUSY  
SENSE BYTES 3, 4, 5 DECODE  
DATE 07-19-81 KACH. 3420-AP  
LOG 0025 FRAME 01 1  
P.N. 1848083 000  
ISH CORP. CO BLK. CP

01-21-73 734810  
06-14-73 735810  
10-10-73 735812

NOTE: SPECIAL LEVELS  
H-4 TO GND DFD  
F-G-40 G-4  
T-H-2 TO GND GNM  
1  
1  
1



NOTE  
 SEE PAGE A6106  
 F FOR PLUGGING JUMPERS

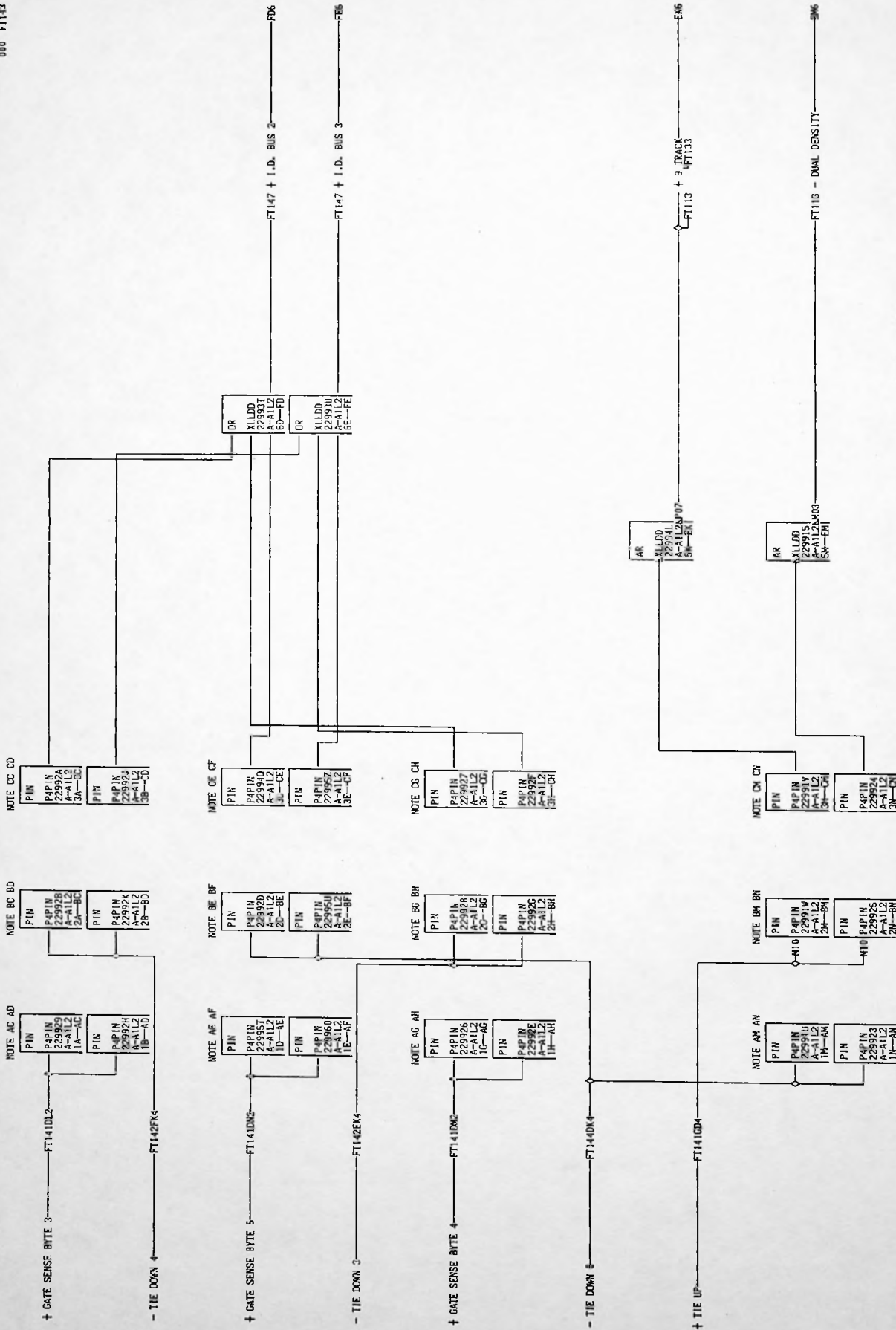
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31-21-73 734800  
 06-14-73 705810

NOTE  
 SEE PAGE A6106  
 F FOR PLUGGING JUMPERS

000

1. D. GATING BUSES 0 AND 1  
 DATE 07-13-81 MACH. 3420-AP  
 LOG 0119 FRAME 01 4  
 P.N. 1848084  
 IBM COMP. CD BLK. 000

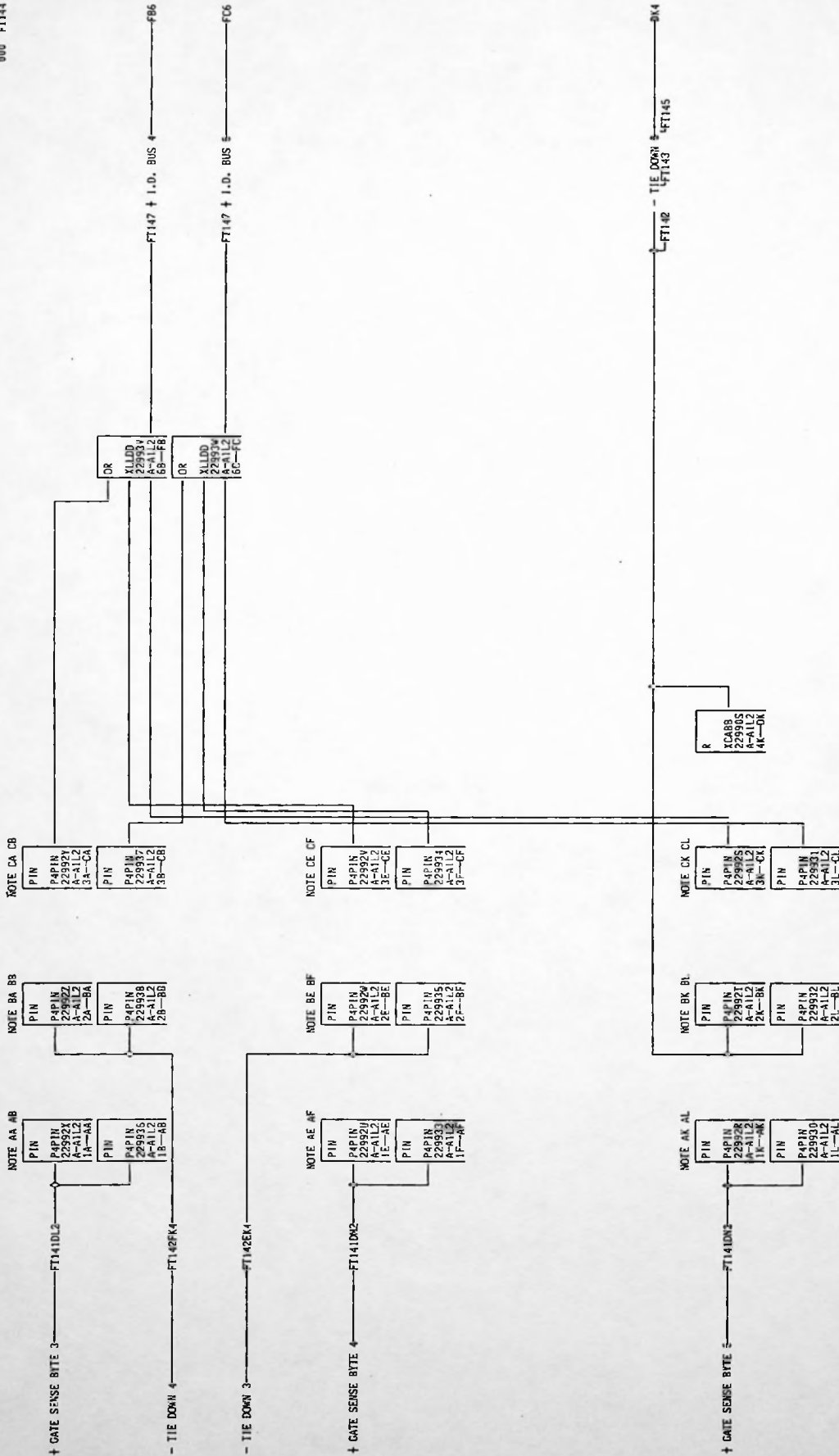


01-21-73 734800  
06-14-73 735810

1.D. GATING BUSES 2 AND 3  
DATE 07-13-81 MACH. 3420-RP  
LOC 0119 FRAME 01  
P.N. 1848065  
IBK COMP. CO BLK. 000

NOTE  
F SEE PAGE A6106 FOR  
T PLUGGING JUMPS

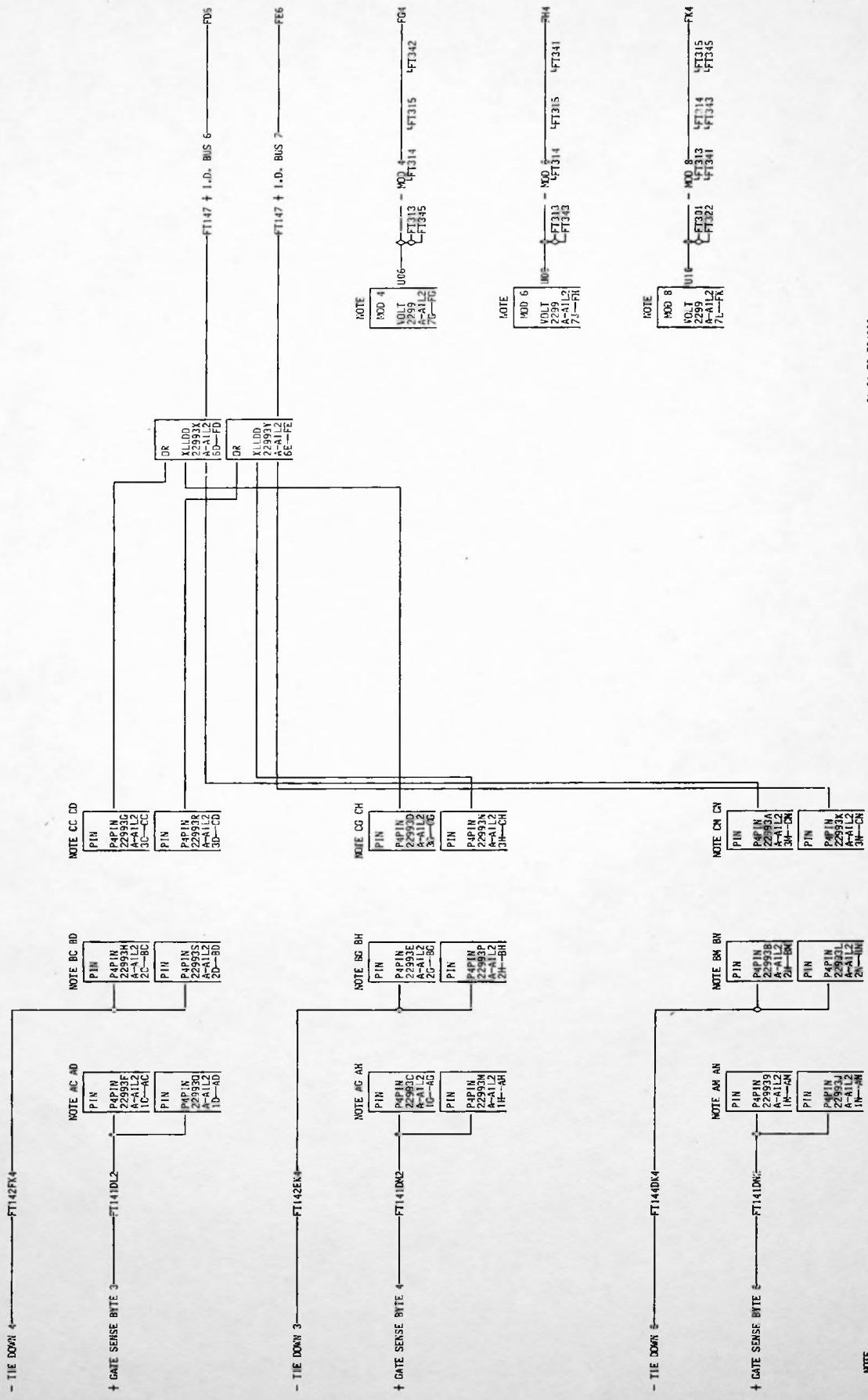
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NOTE  
SEE PAGE A5106 FOR  
PLUGGING JUMPS

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

I.D. GATING BUSES 4 AND 5	F	1
DATE 07-13-81 MACH. 3420-RP	T	1
LDC 0119 FRANE	I	4
P.N. 1848085	A	4
I.B.M. COMP. CO. BLX.	C	080
	GP	



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

I.D. GATING BUSES 6 AND 7  
 DATE 07-13-81 MACH. 3420-RP  
 LOG 0119 FRANKS 01 4  
 P.N. 1848087 000  
 IBM CORP. CO BLK. CM

NOTE  
 SEE PAGE 46106  
 F FOR PLUGGING JUMPERS  
 T AND FOR MODEL  
 1 WIRING  
 5  
 000



000 FT14E - BUS 1 - FT148 - BUS 1 - 002

002 FT14E - BUS 0 - FT148 - BUS 0 - 042

002 FT14E - BUS 3 - FT148 - BUS 3 - 062

002 FT14E - BUS 2 - FT148 - BUS 2 - 002

002 FT14E - BUS 5 - FT148 - BUS 5 - 002

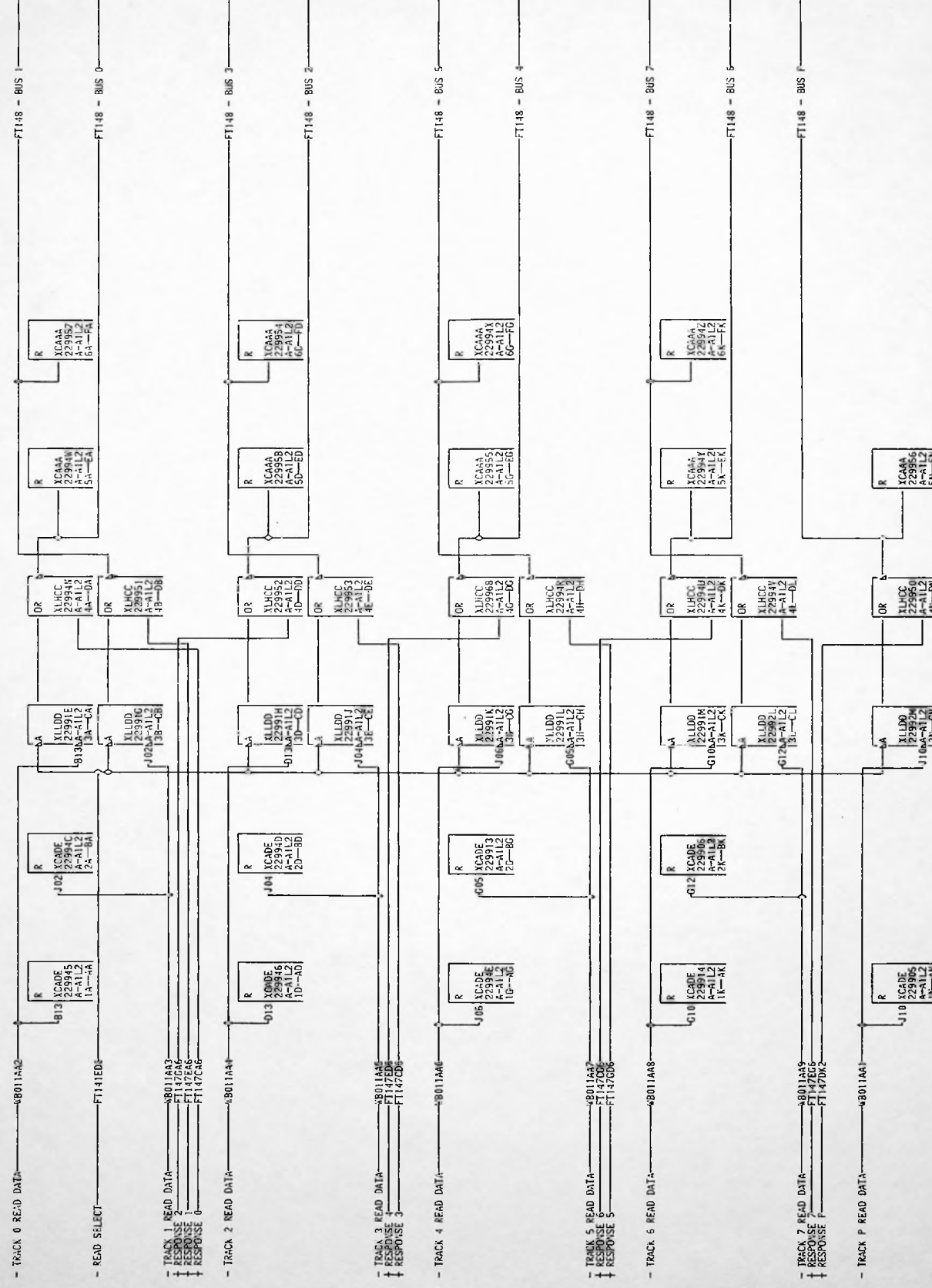
002 FT14E - BUS 4 - FT148 - BUS 4 - 062

002 FT14E - BUS 7 - FT148 - BUS 7 - 002

002 FT14E - BUS 5 - FT148 - BUS 5 - 002

002 FT14E - BUS 7 - FT148 - BUS 7 - 002

002 FT14E - BUS 5 - FT148 - BUS 5 - 002

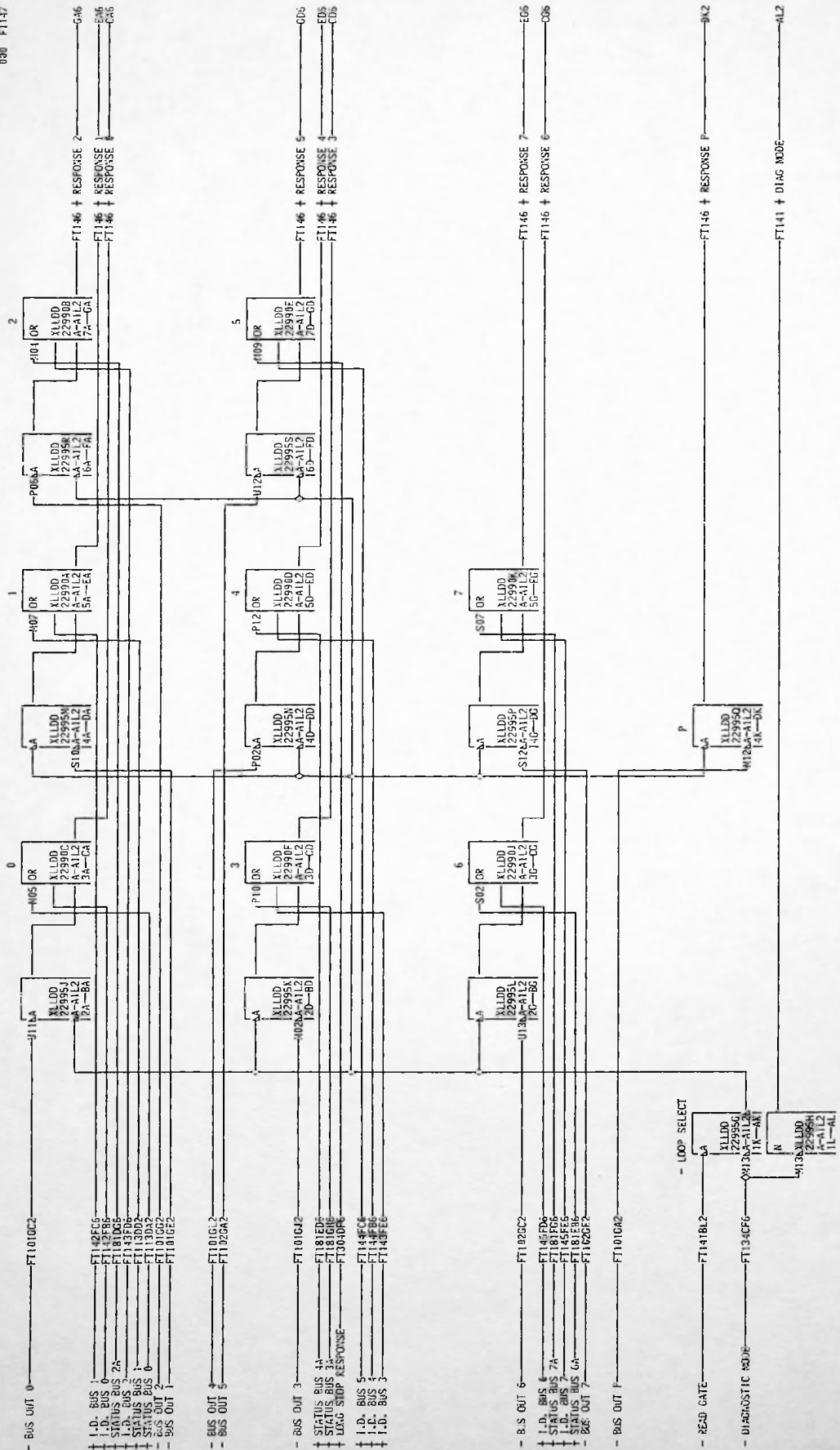


01-21-73 234800  
06-14-73 735810

BUS IN DATE  
DATE 07-13-81 MACH. 3420-RP  
LOC 0119 FRAME 01 4  
P.N. 1848088 6  
ITEM COMP. CO BLK. 000 CP

000

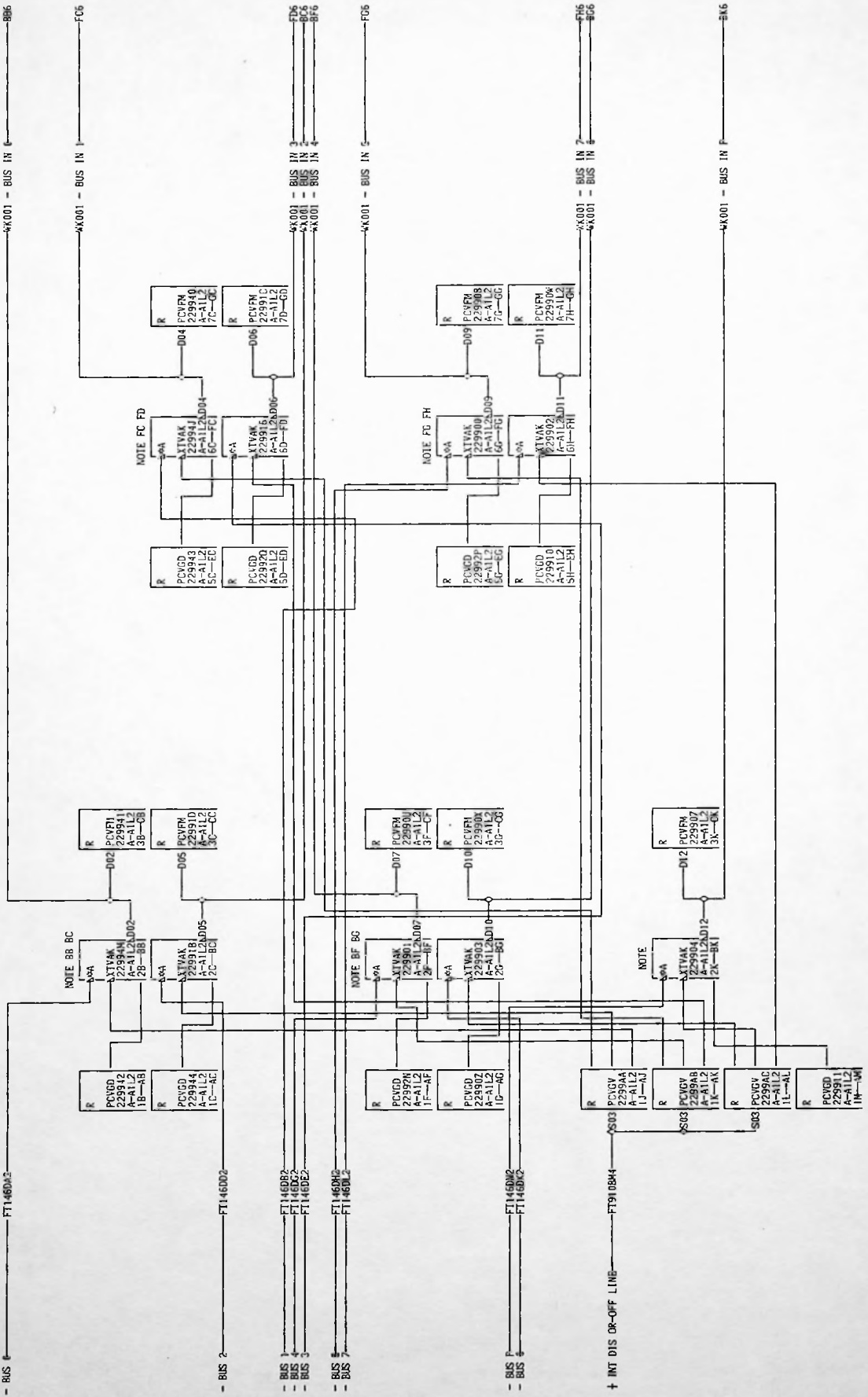




01-21-73 734800  
06-14-73 735810

LOG\* GATING  
BUS\* MENTING 3420-HP  
DATE 07-13-81 MCHT.  
LOG 0119 FRAME 01 4 7  
P.N. 184809  
IBM CORP. CD BLK. GE 000

000 FT148  
 - BUS 1 - FT1480A2 - BUS IN 1 - 886  
 - BUS 2 - FT146002 - BUS IN 1 - FC5  
 - BUS 3 - FT1460B2 - BUS IN 3 - FD6  
 - BUS 4 - FT1460C2 - BUS IN 4 - BF6  
 - BUS 5 - FT1460D2 - BUS IN 5 - FC5  
 - BUS 6 - FT1460E2 - BUS IN 6 - BF6  
 - BUS 7 - FT1460F2 - BUS IN 7 - FC5  
 - BUS 8 - FT1460G2 - BUS IN 8 - BF6  
 + INT DIS DR-OFF LINE - FT9108H4 - BUS IN 7 - BF6  
 - BUS 9 - FT1460H2 - BUS IN 9 - FC5  
 - BUS 10 - FT1460I2 - BUS IN 10 - BF6

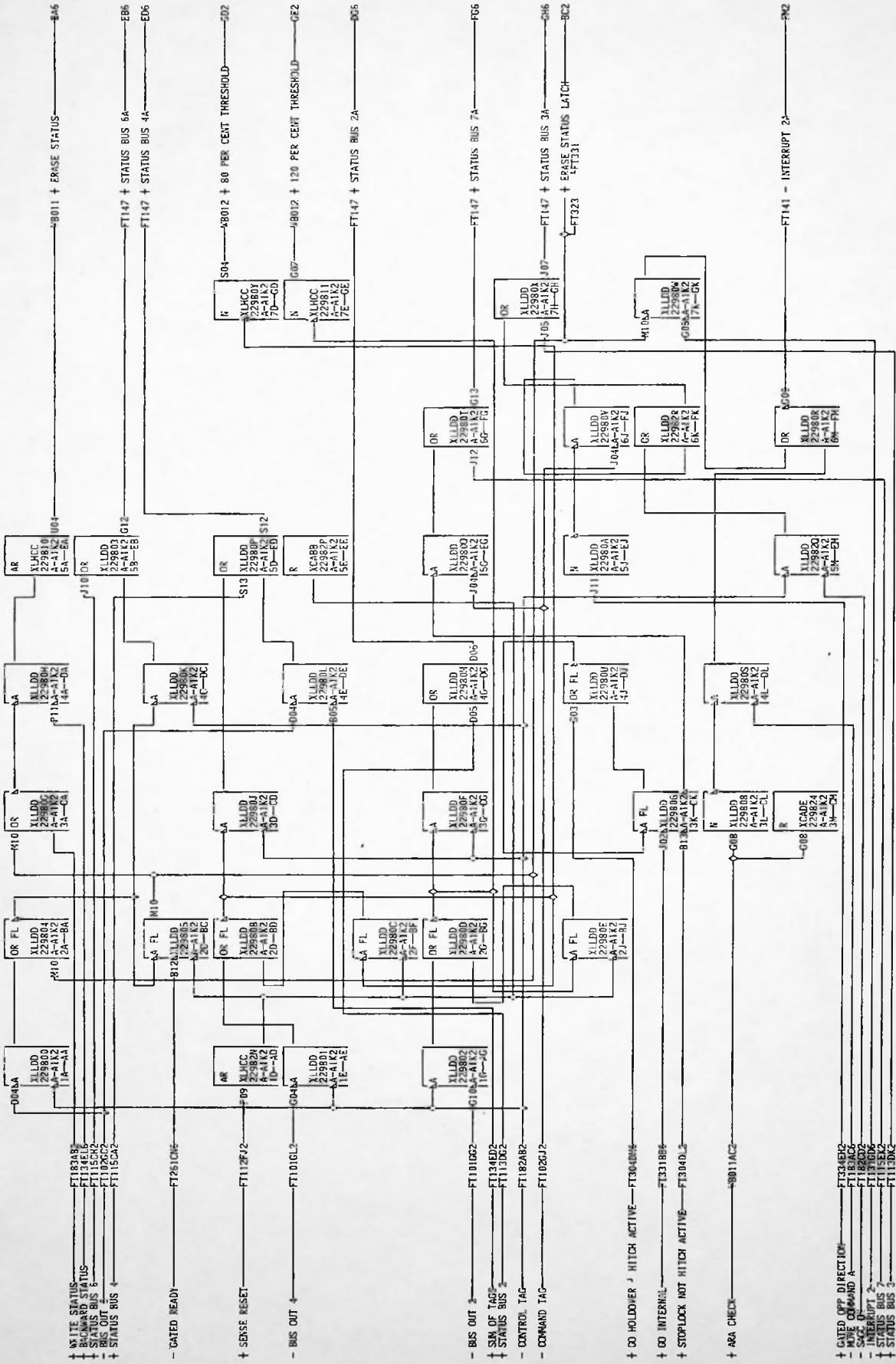


01-21-73 734800

NOTE  
 SPECIAL LEVELS 1, 4 TO GND AT  
 F BUS B6 B6 B6 B6  
 I F06 F06 F06 F06  
 1 1 1 1  
 4 4 4 4  
 8 8 8 8

000

INTERFACE BUS IN  
 DATE 07-13-81 MACH. 342D-RP  
 LOG 0117 FRAME 01 4 8  
 P.N. 1848090  
 IBM COMP. CO BLK. GJ



91-21-73 734800  
11-28-73 735813

ERASE STATUS LATCH STATUS	F	1	1
MULTIPLEX	T	1	1
DATE 07-13-88	MACH.	3420-0P	
LOG	1664	FRANE	01 8 1
			P.N. 1848091
			000
			IBN CORP. CO BLK.

000 FT182

- BUS OUT 3 FT101G/2 FT183 - 6250 CONTROL TAC FT181 - 6250 CONTROL TAC

+ GAP CONTROL TP 002 + ADA ON LOAD POINT SET 8B01AC6 FT324BF2 + CONTROL TAC FT102G0E

+ POWER ON RESET FT112BF5 + ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ TIE UP GATED 6250 POWER ON RESET FT113 FT301 FT302 FT303 FT321 FT324

+ NFP-1 PICKUP FT111 + NFP-1A PICKUP FT111 + NFP-1A PICKUP FT111 + NFP-1A PICKUP

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

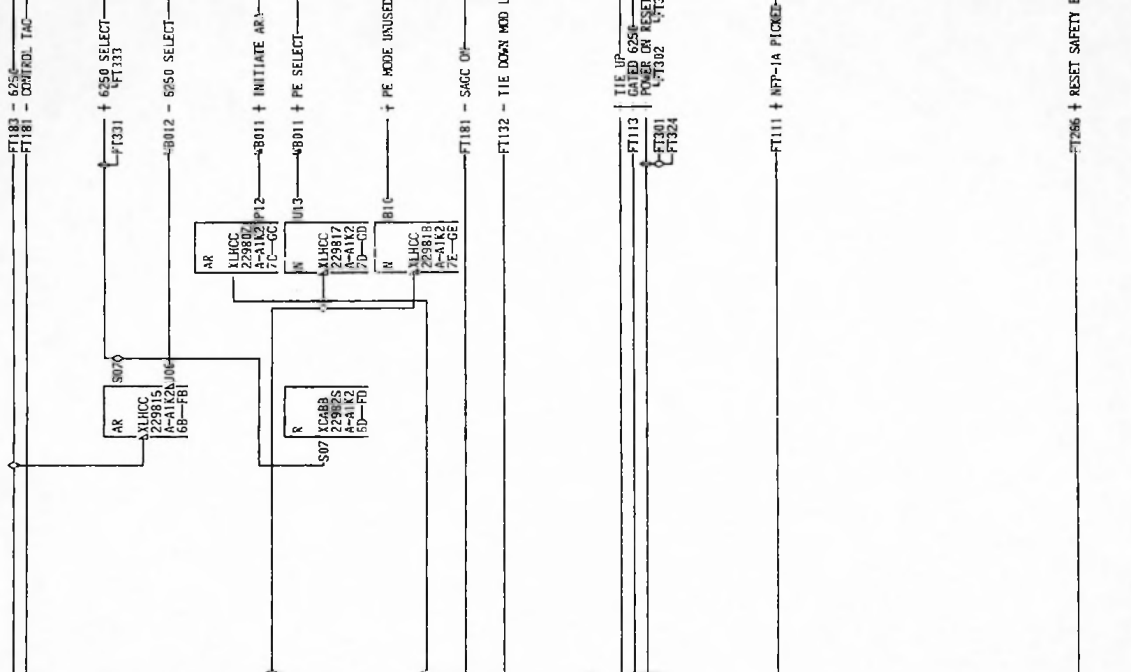
+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42

+ ERASE U.K. FT111FP2 + WRITE CURRENT U.K. FT111FP2 + GATED READY FT261K06 + SAFETY BATT. RESET FT287B42



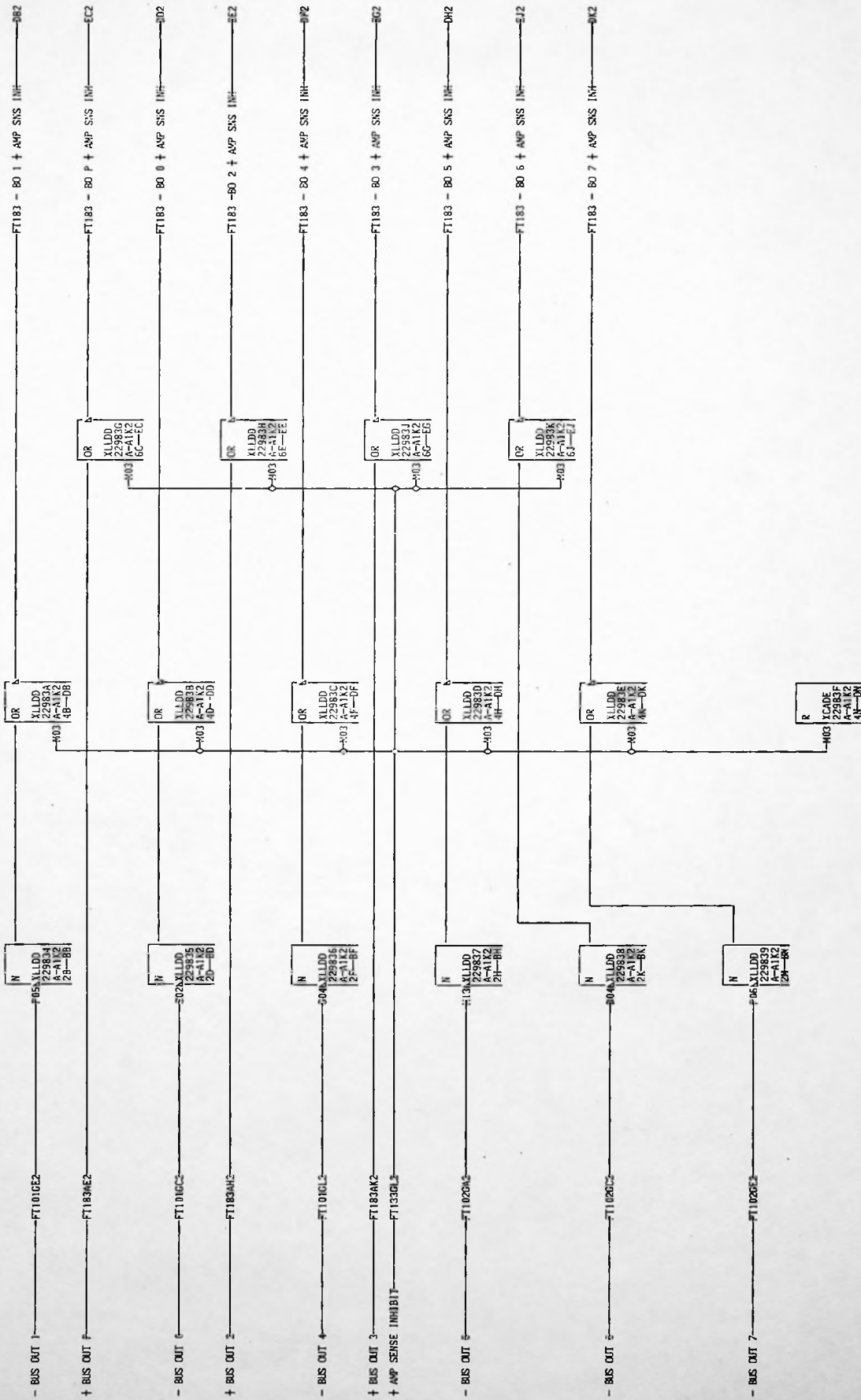
01-21-73 734800  
 04-27-73 734801  
 05-14-73 735810  
 08-15-73 735811  
 11-28-73 735813  
 01-29-74 735818  
 10-03-81 847851

ALT DENISITTO SACC LATCHES  
 DATE 10-20-81 MACH. 3420-RP  
 LOC 1648 FRAME 01 2  
 P.N. 1846932 000  
 IBM CORP. CD BLK. 0F

01-21-73 734800  
 04-27-73 734801  
 05-14-73 735810  
 08-15-73 735811  
 11-28-73 735813  
 01-29-74 735818  
 10-03-81 847851

000





ZERO THRESHOLD MULTIPLEX			
DATE	07-13-81	MACH.	3425-RP
LOG	0073	FRAME	01 8 4
P.N.	1848232		
IBM CORP.		BLK.	000

11-28-73 735813

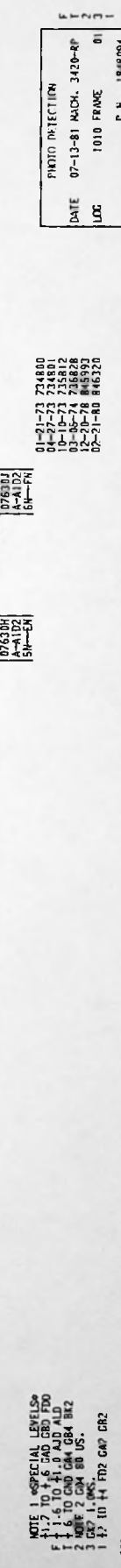
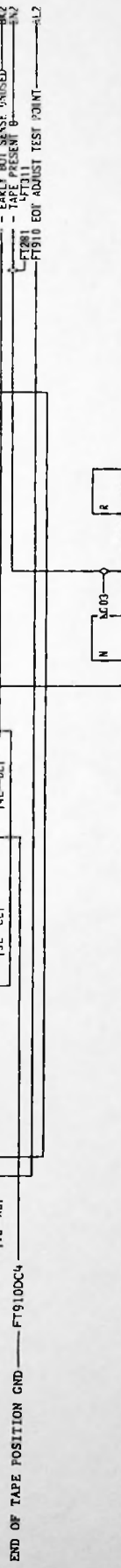
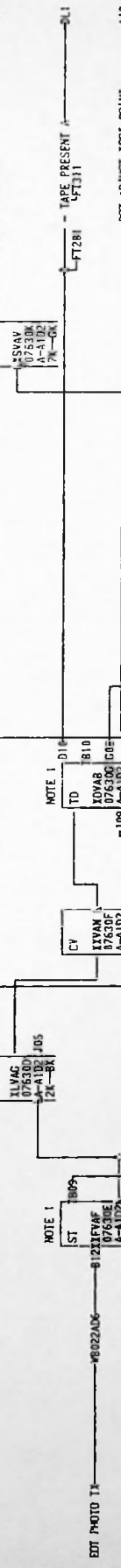
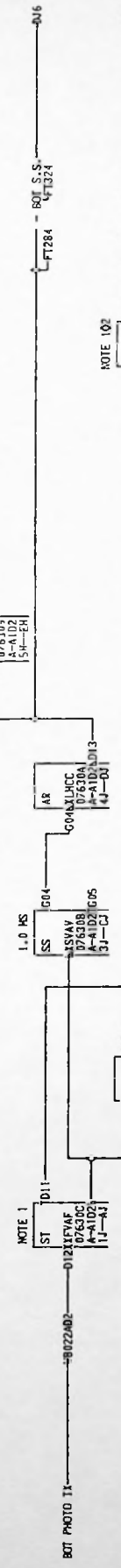
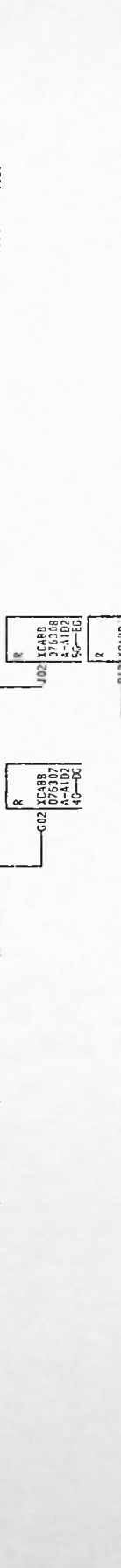


PHOTO INJECTION

DATE 07-13-81 MACH. 3420-8P

LOC 1010 FRAME 01 3

P.N. 1848094 000

FSH CORP. CO BLK. 000

01-21-73 734800

04-27-73 734801

07-05-73 735876

07-05-73 735876

12-28-78 846593

02-21-80 846320

R 003 XCARR

N M 03

G08 XLACC

076300

A-A1D2

5M-EN

R 002 XCARR

076307

A-A1D2

4C-DC

R 013 XCARR

076305

A-A1D2

5H-ER

R 004 XLACC

076300

A-A1D2

4J-DJ

NOTE 1 D16

CV 100

1FVAD 076300

A-A1D2

3L-CL

NOTE 1

ST 100

1FVAD 076300

A-A1D2A

7L-AL

NOTE 1 SPECIAL LEVELS

1 1.5 TO 5.0 ADJ END

1 1.5 TO 41.0 ADJ ALD

1 1.5 TO 60.0 ADJ BR2

2 1.5 TO 60.0 ADJ BR2

1 1.5 TO 60.0 ADJ BR2

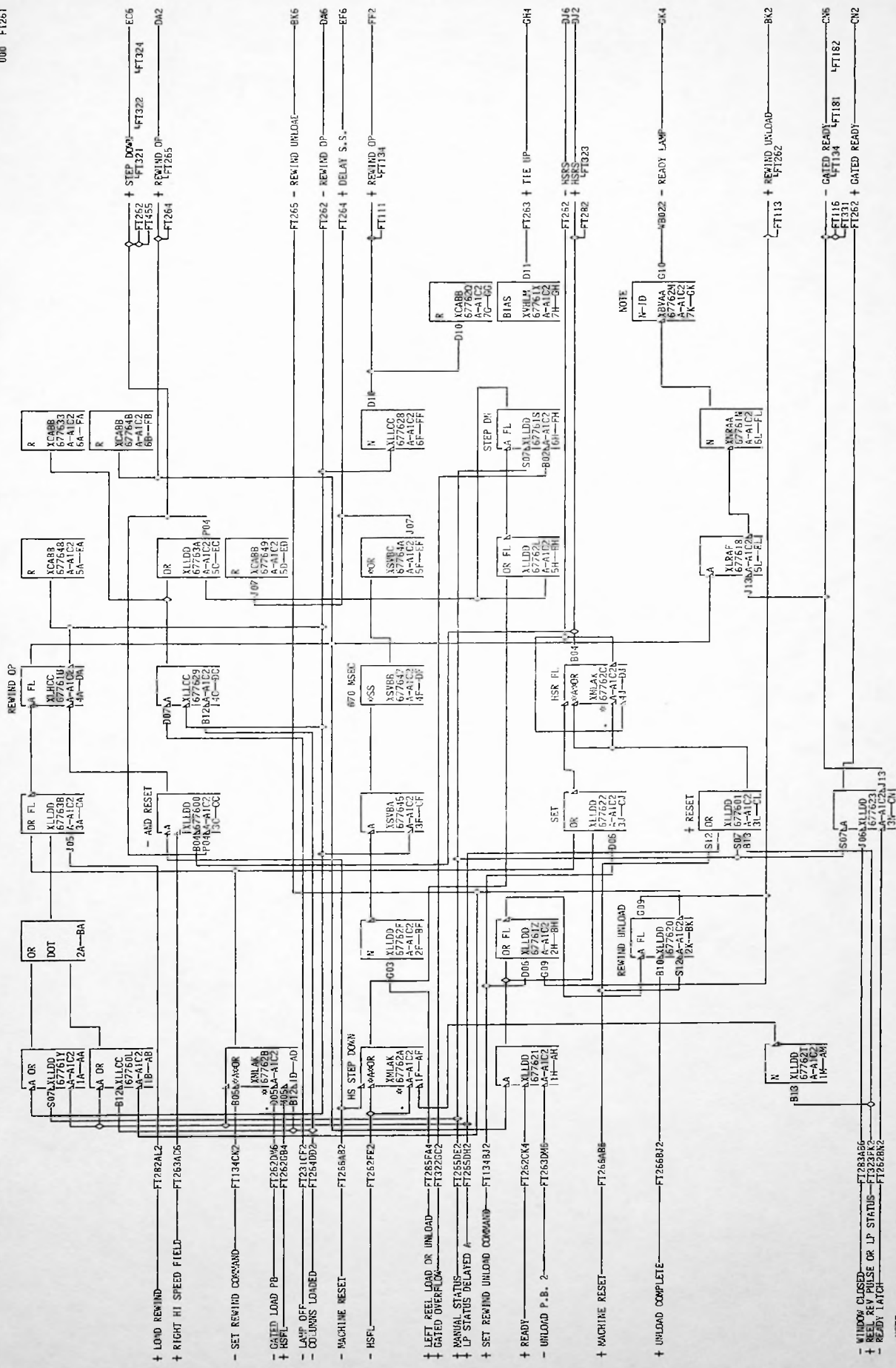
1 1.5 TO 60.0 ADJ BR2

1 1.5 TO 60.0 ADJ BR2

1 1.5 TO 60.0 ADJ BR2

000





REVISION UNLOAD S. REV  
 DATE 08-15-73 735810  
 LOC 08-30-73 MACH. 3424-AP  
 P.N. 1848095  
 I.B.M. CORP. CO. BLK. 000

01-21-73 731800  
 06-11-73 735510  
 08-15-73 735811

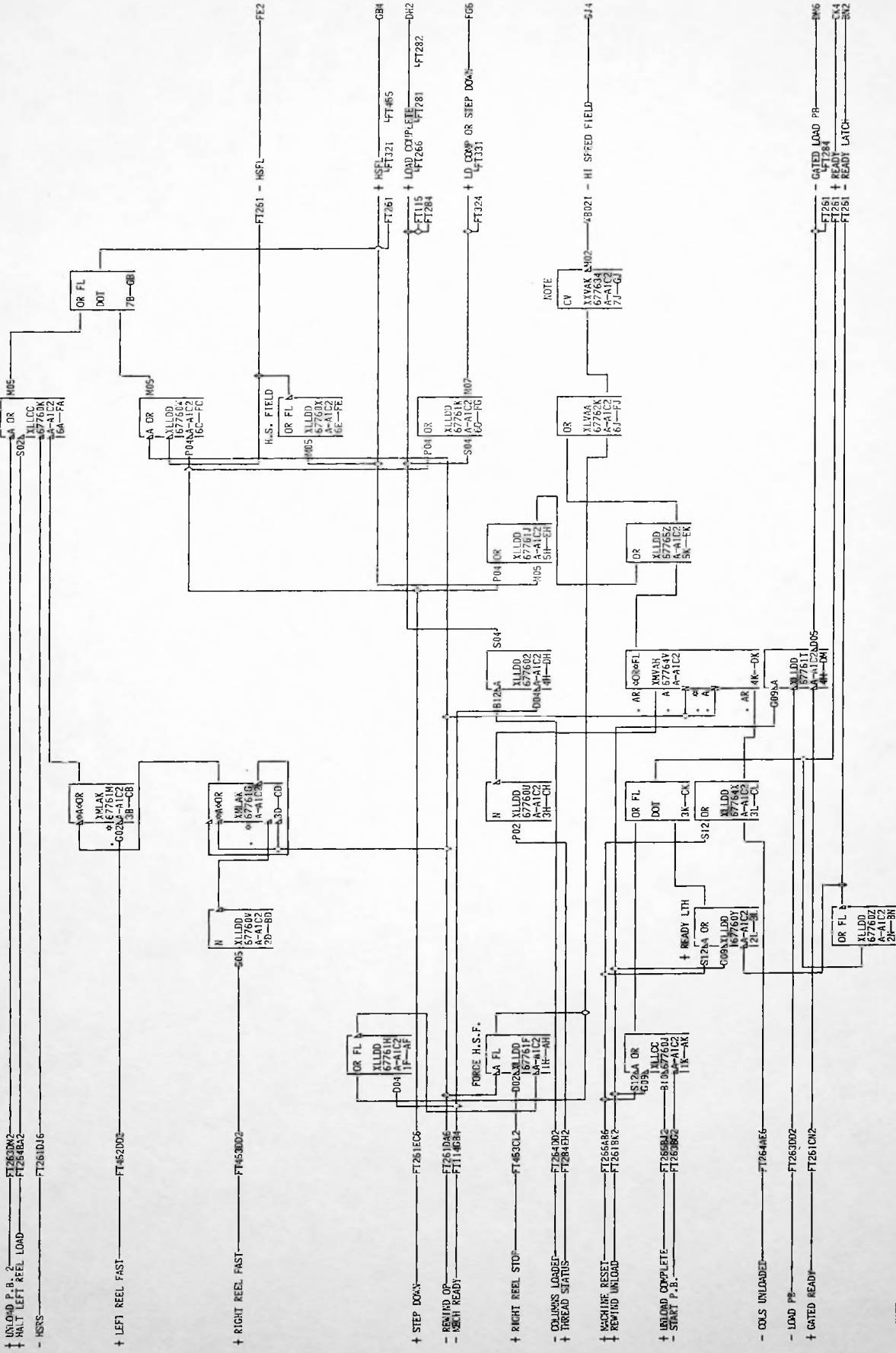
NOTE  
 W-ID  
 18VAA G10  
 677624  
 A-A1C2  
 7K-GA

NOTE  
 W-ID  
 18VAA G10  
 677624  
 A-A1C2  
 7K-GA

NOTE  
 W-ID  
 18VAA G10  
 677624  
 A-A1C2  
 7K-GA

NOTE  
 SPECIAL LEVELS\*\*  
 F H12 TO CHD DM4  
 1 1  
 2 1  
 3 1  
 000



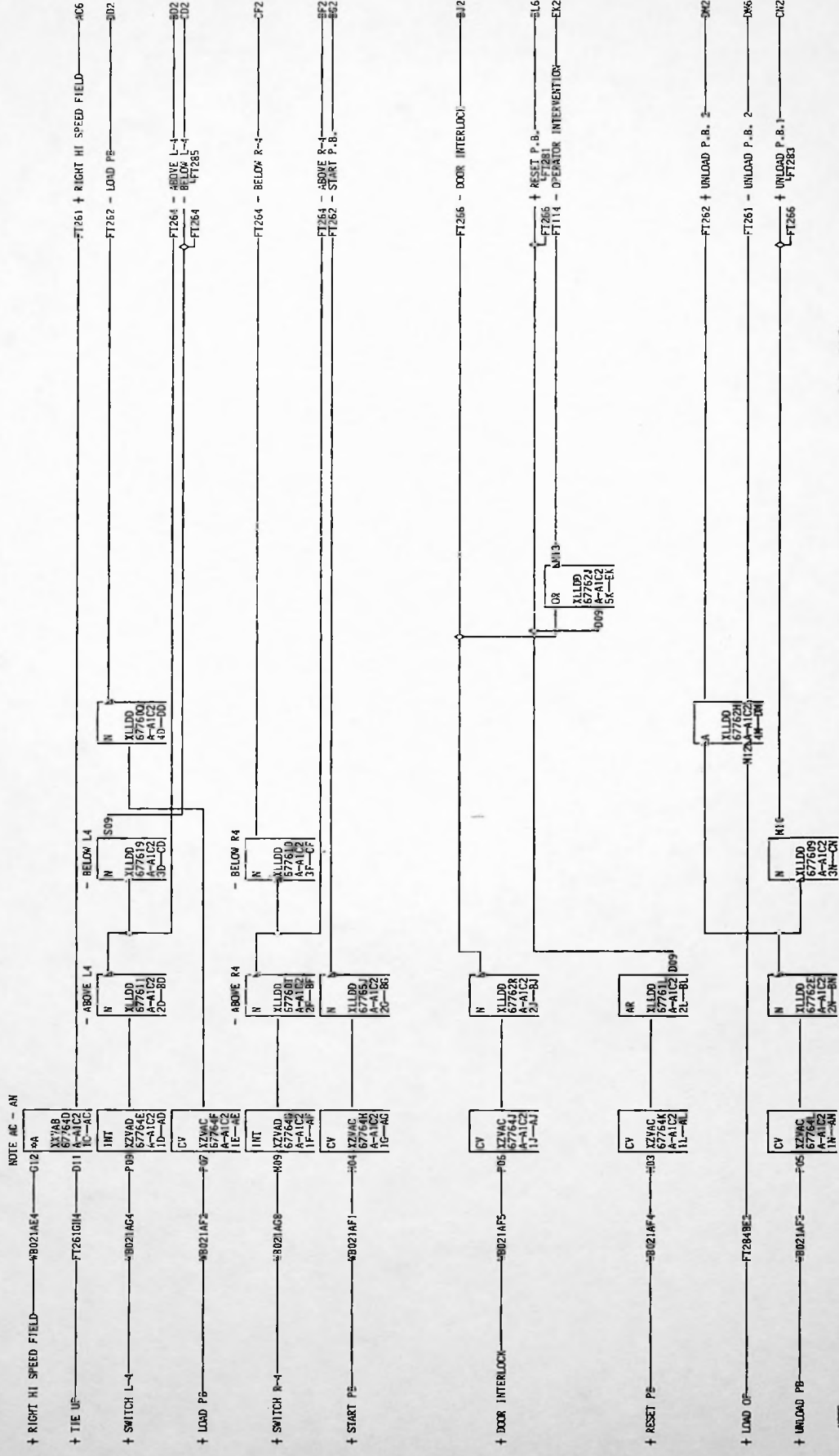


HI SPEED FIELD CONTROL  
UNLD COIL-READY LATCH

DATE	30-13-81	PACH	3420-8P	F	1
LDC	0660	FRAME	01	6	2
		P.N.	1848096		000
		IBM CORP.	CO BLK.		GL

01-21-73 734803  
10-10-73 735812

NOTE  
SIGNAL LEVELS  
F +1 TO GND G14

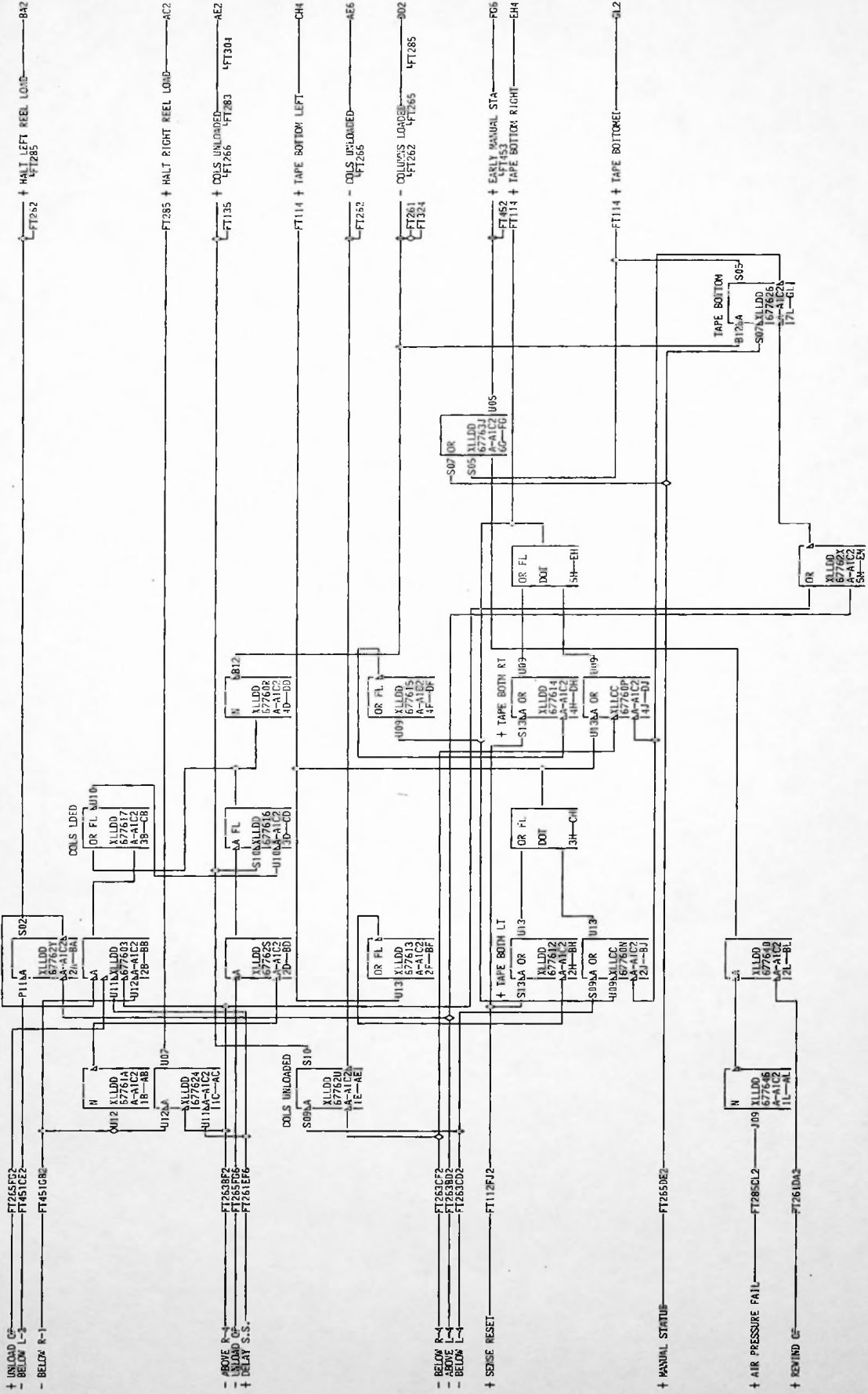


NOTE: AC - AN

DP PANEL PUSH BUTTONS  
 DOOR INTERLOCK  
 DATE 07-13-81 MACH. 3420-RP  
 LOC 0117 FRAME 01  
 P.N. 1848097 000  
 IBM CORP. CO. ILL. FC

01-21-73 734800

NOTE  
 \*SPECIAL LEVELS  
 F + 12 TO CHD ACB  
 2 CHD TO -4.0 ADD AED  
 6 APD ADD A/D A/D A/D  
 3  
 000

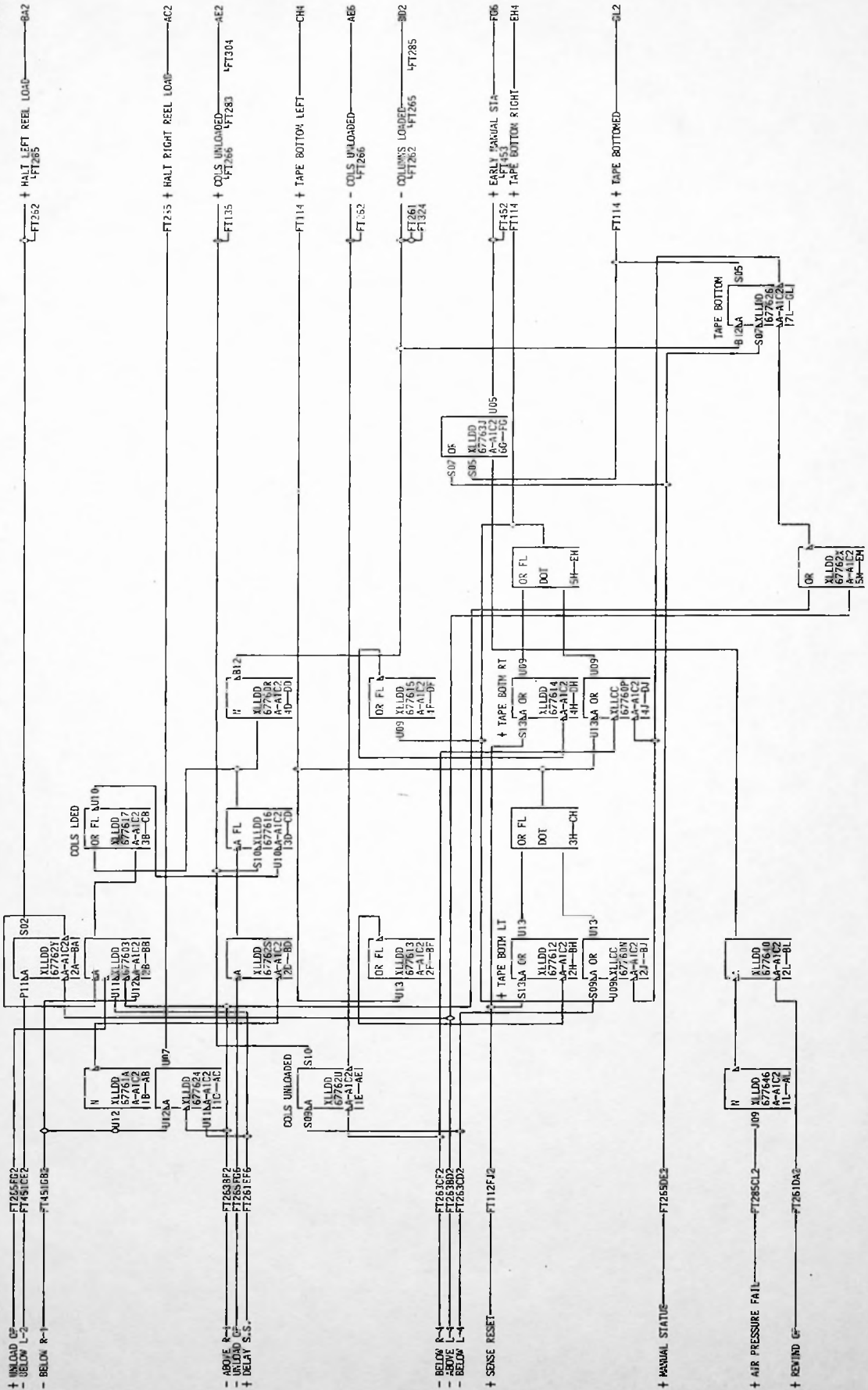


+ UNLOAD OF FT265FC2  
 - BELOW L-3 FT451C2Z  
 - BELOW R-1 FT451C8E  
 + ABOVE R-4 FT265BF2  
 + ABOVE R-5 FT265BF2  
 + DELAY S.S. FT265BF2  
 - BELOW R-4 FT265BF2  
 - BELOW L-3 FT265C2Z  
 + SENSE RESET FT112F12  
 + MANUAL STATUS FT265DE2  
 + AIR PRESSURE FAIL FT265DL2  
 + REV/IND OF FT265DL2

01-21-73 734800  
 04-27-73 734801  
 10-10-73 735812  
 07-29-74 735818

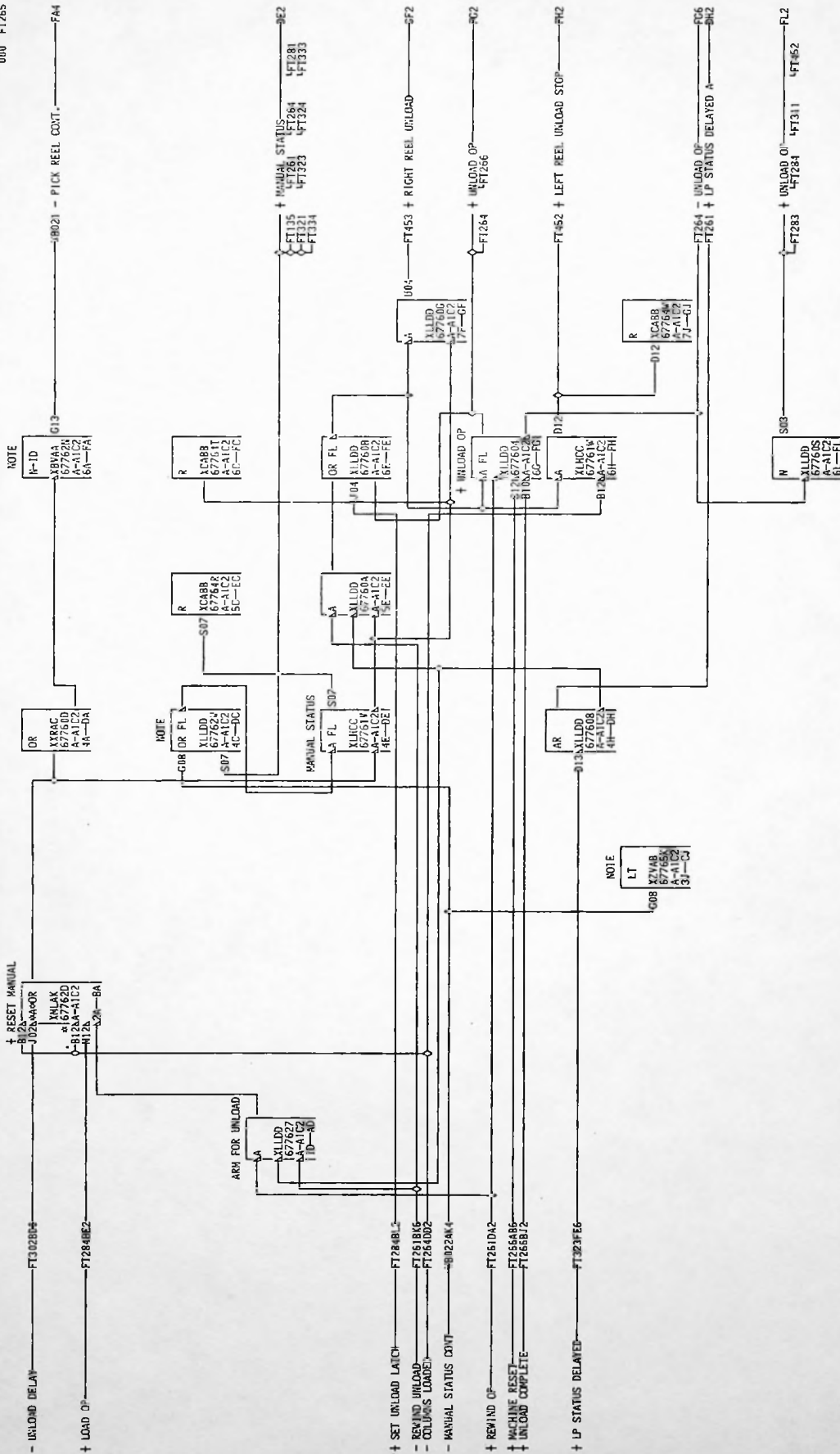
COLUMNS LOADED/COLS UNLOADED  
 TAPE BOTTOM SENSING  
 DMIIE 07-13-81 MACH. 3420-RP  
 LOC 0079 FRAME 01

P.N. 1848D98  
 000  
 IBM CORP. CD BLK. CH



01-21-73 734800  
 04-27-73 734801  
 10-16-73 735812  
 07-29-74 735813

LOG 0079 FRAME 01 4  
 P.N. 1848098 000  
 IER COMP. CO BLK. CH



NOTE

R-1D  
XRVAA  
67762N  
A-A1C2  
6A-FA

NOTE

S07  
XLRBB  
67760R  
A-A1C2  
5C-EC

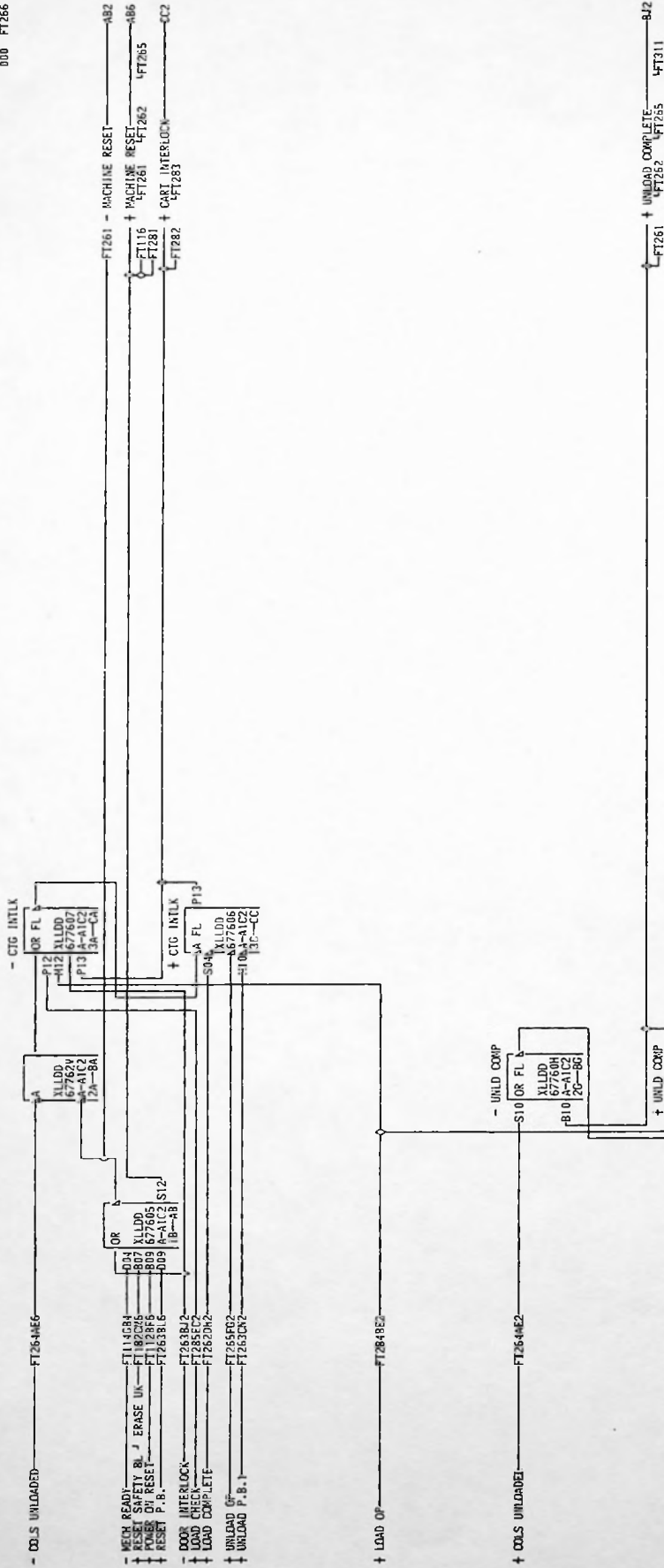
NOTE

LT  
XZYAB  
67760S  
A-A1C2  
3I-C

NOTE  
AGFEDICAL LEVELS  
F H12 TO END FA40  
L -5 TO -2.5 CJD DCB  
N 5  
5

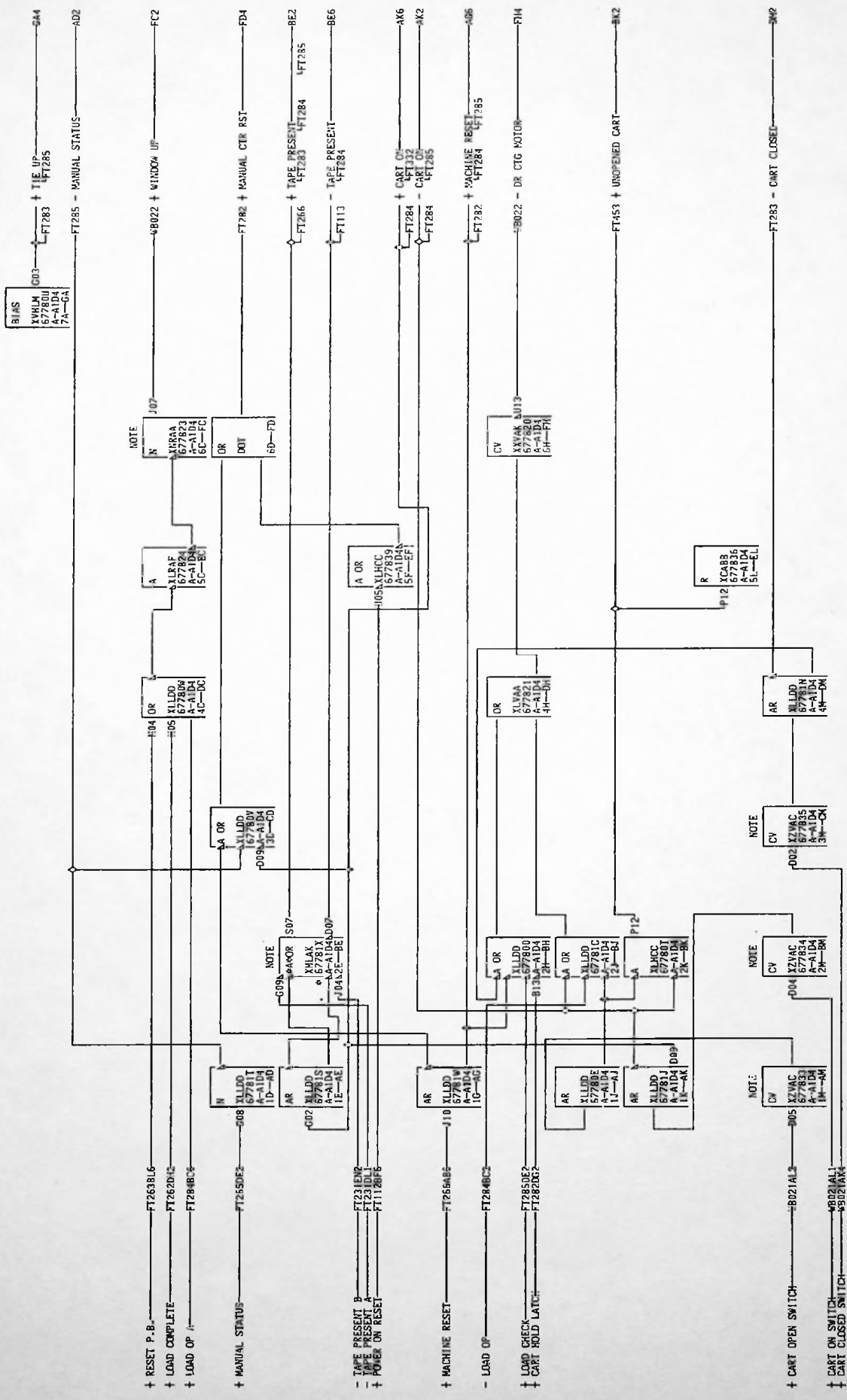
01-21-72 734800  
04-27-72 734800  
08-15-73 735811  
10-10-73 735812

MANUAL STATUS CONTROL  
UNLOAD OP  
DATE 07-20-81 MACH. 3420-RP  
L  
L00 0060 FRAME 01 5  
18N CONP. CO BLK. CR  
000



01-23-73 734800  
04-27-73 734801

DATE	07-13-81	W/CN	3420-RP
LOC	0118	FRAME	01 6
		P.N.	1848100 000
		IBM CORP.	CO BLK. CN



BIAS  
XVWAK  
67780U  
A-A1D4  
7A-GA

NOTE  
N  
XARRA  
677823  
A-A1D4  
6C-FC

CV  
XVWAK  
677820  
A-A1D4  
6H-FH

R  
P12 XC488  
677836  
A-A1D4  
5L-EL

NOTE  
CV  
XZVAC  
677835  
A-A1D4  
3W-CA

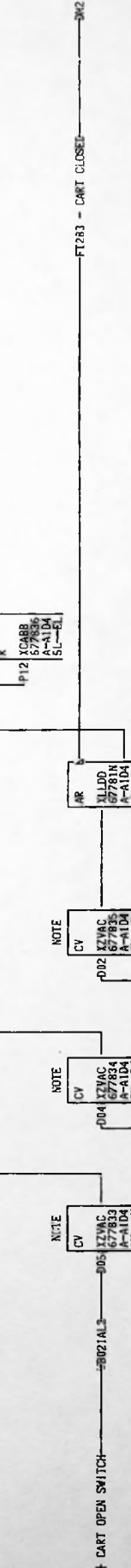
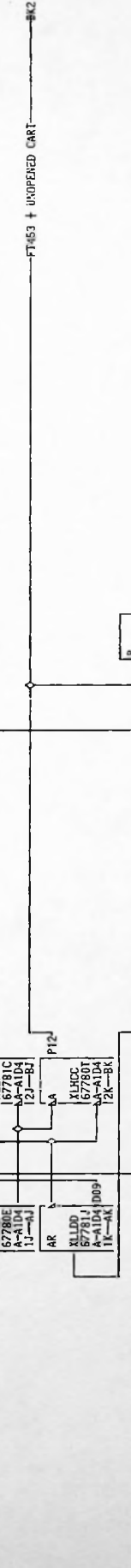
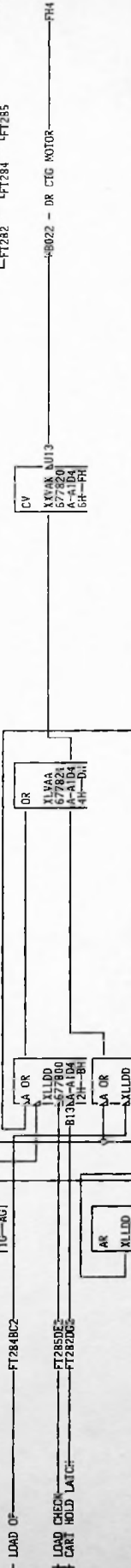
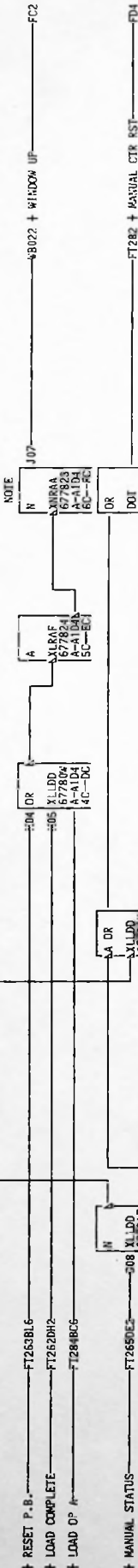
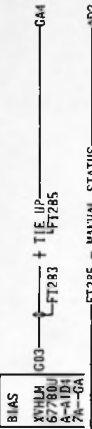
NOTE  
CV  
XZVAC  
677834  
A-A1D4  
2W-BH

REPRODUCTION PRESENTED BY  
DATE 08-30-73 MACH. 3420-8P  
LOG 0118 FRAME 01  
P.N. 1848101  
IBN COMP. CO BLK. 000

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

NOTE  
1. ALL LEVELS  
2. 112 TO GND F440  
3. 2ND TO -1 AND BND CND BEA





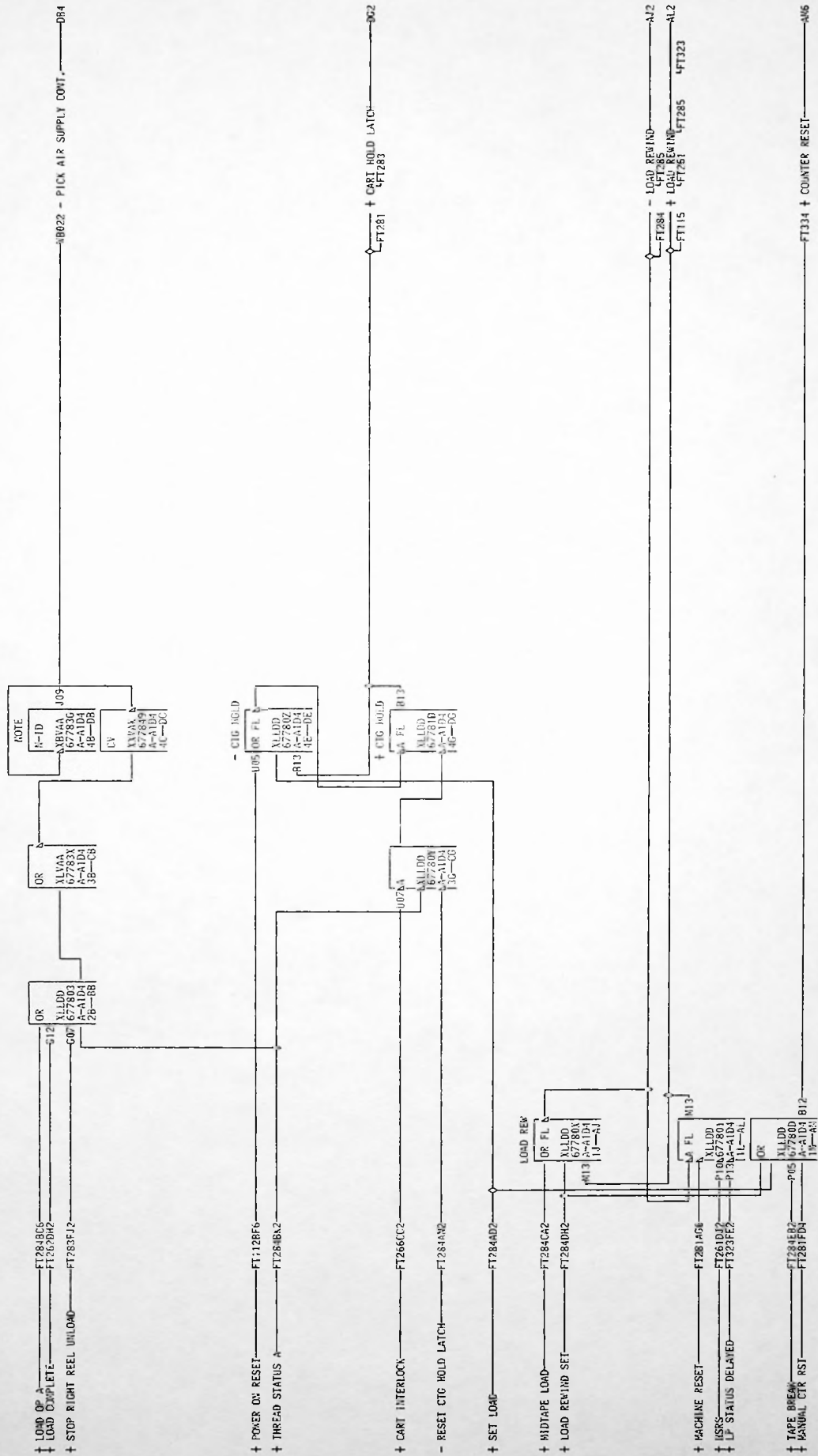
DATE 08-31-73 MACH. 3420-8P  
LOG 0118 FRAME 01  
P.N. 1848101  
IBW CORP. CO BLK.

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

NOTE: NORMAL LEVELS AS  
1. 50 TO GND PH40  
2. 112 TO GND PH40  
3. GND TO - AND BND GND BEA  
4. 1

000

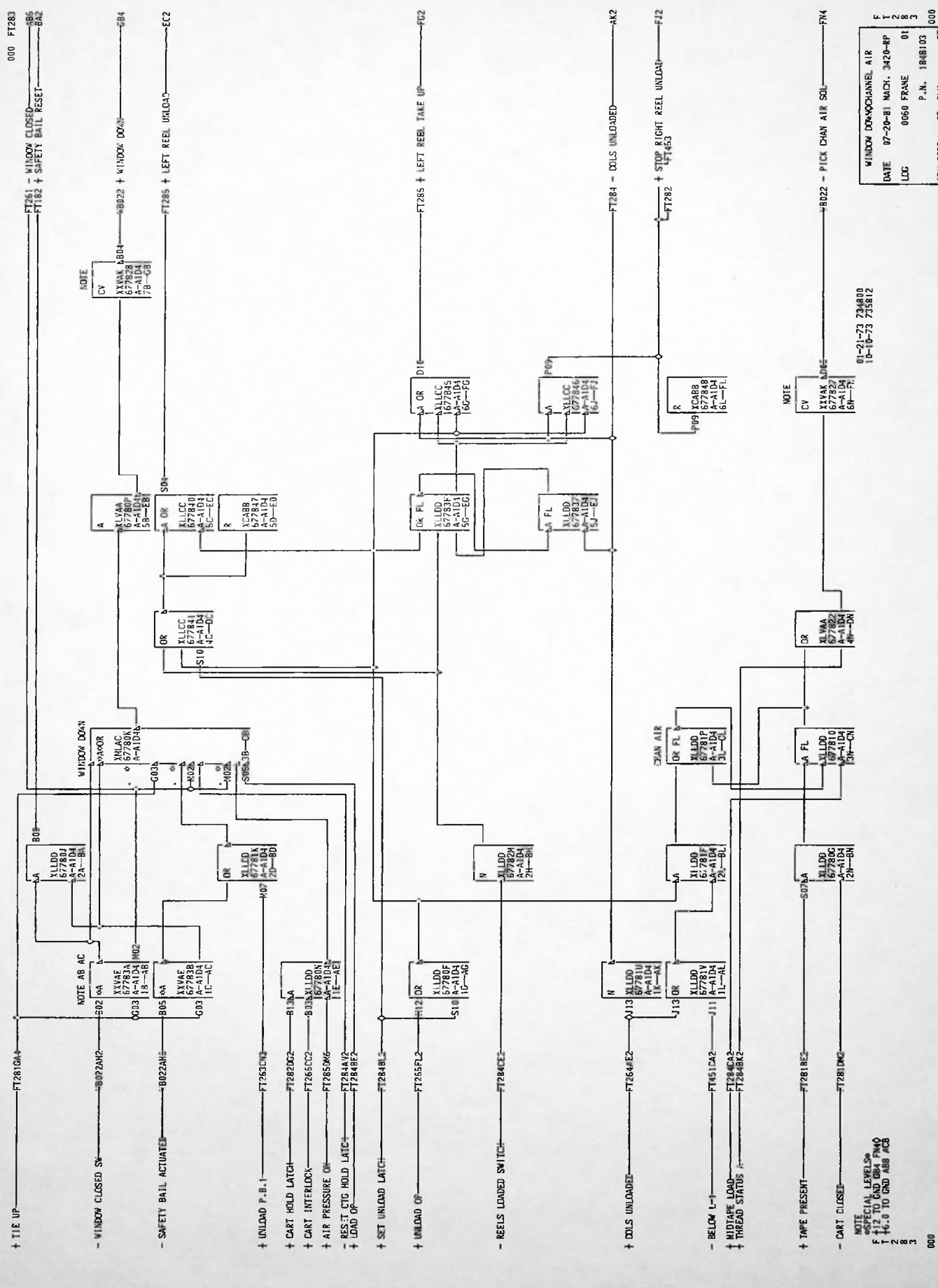




NOTE  
SPECIAL LEVELS  
F 112 TO END DB4  
1  
2  
2  
000

01-21-73 734800  
01-25-73 735812  
00-25-73 735817

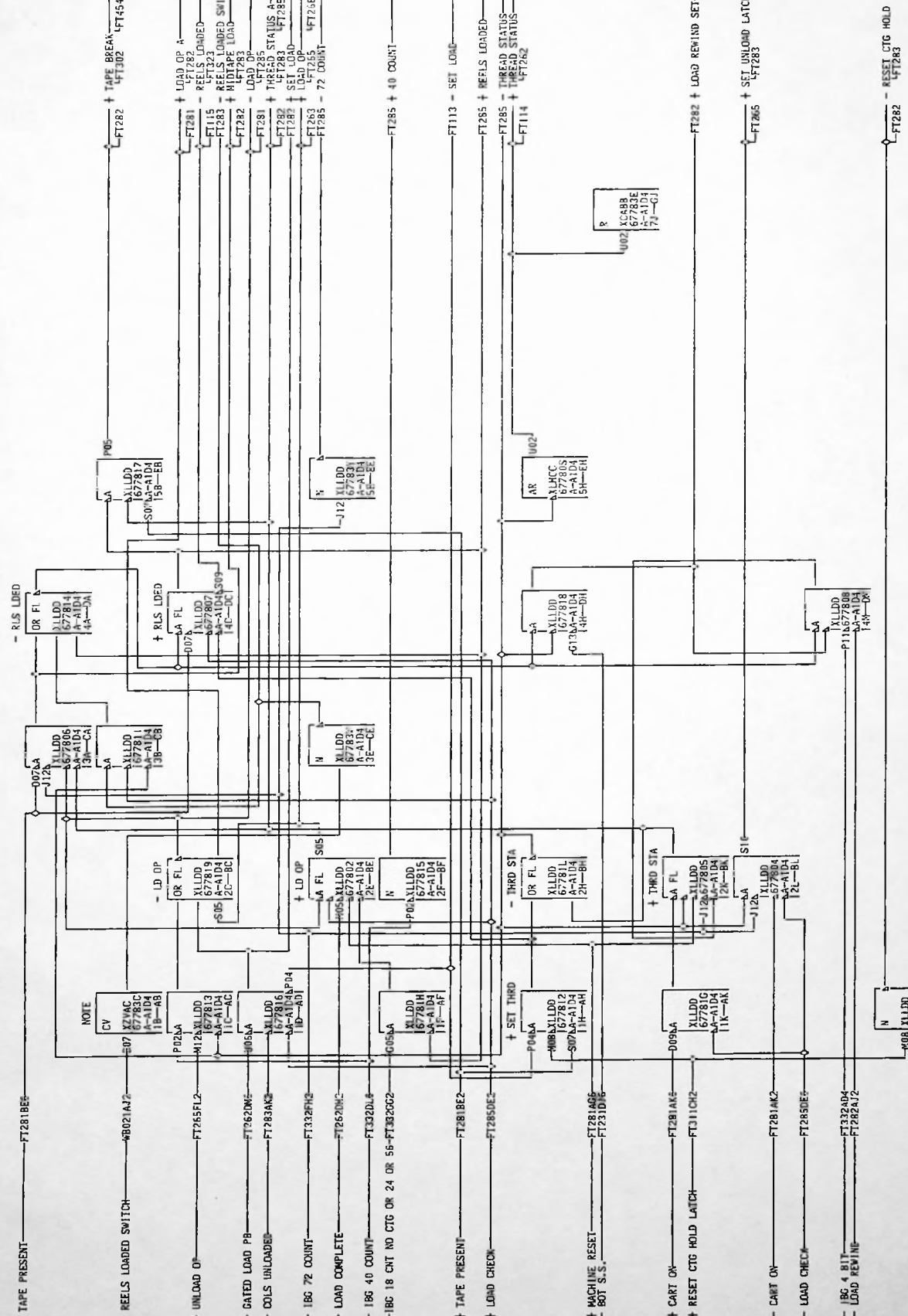
PNEU DRIVE/PORT HOLD	
LOAD REWIND	
DATE	09-25-73 MACH. 3420-RP
LOC	0825 FRAME 01 2
	P.N. 1848102
IBS CORP.	CO BLK.



F	1	WINDOW DOWN CHANNEL AIR
T	1	DATE 07-20-81 MACH. 3420-AP
2	3	LOC 0060 FRANE 01
3	3	P.N. 1848103
000		IBM CORP. CO BLK. GE

01-21-73 734609  
10-10-73 735812

NOTE:  
\* SPECIAL LEVELS  
F 112 TO GRD BR4 FM40  
2 116.0 TO GRD BR4 ACB  
3  
000



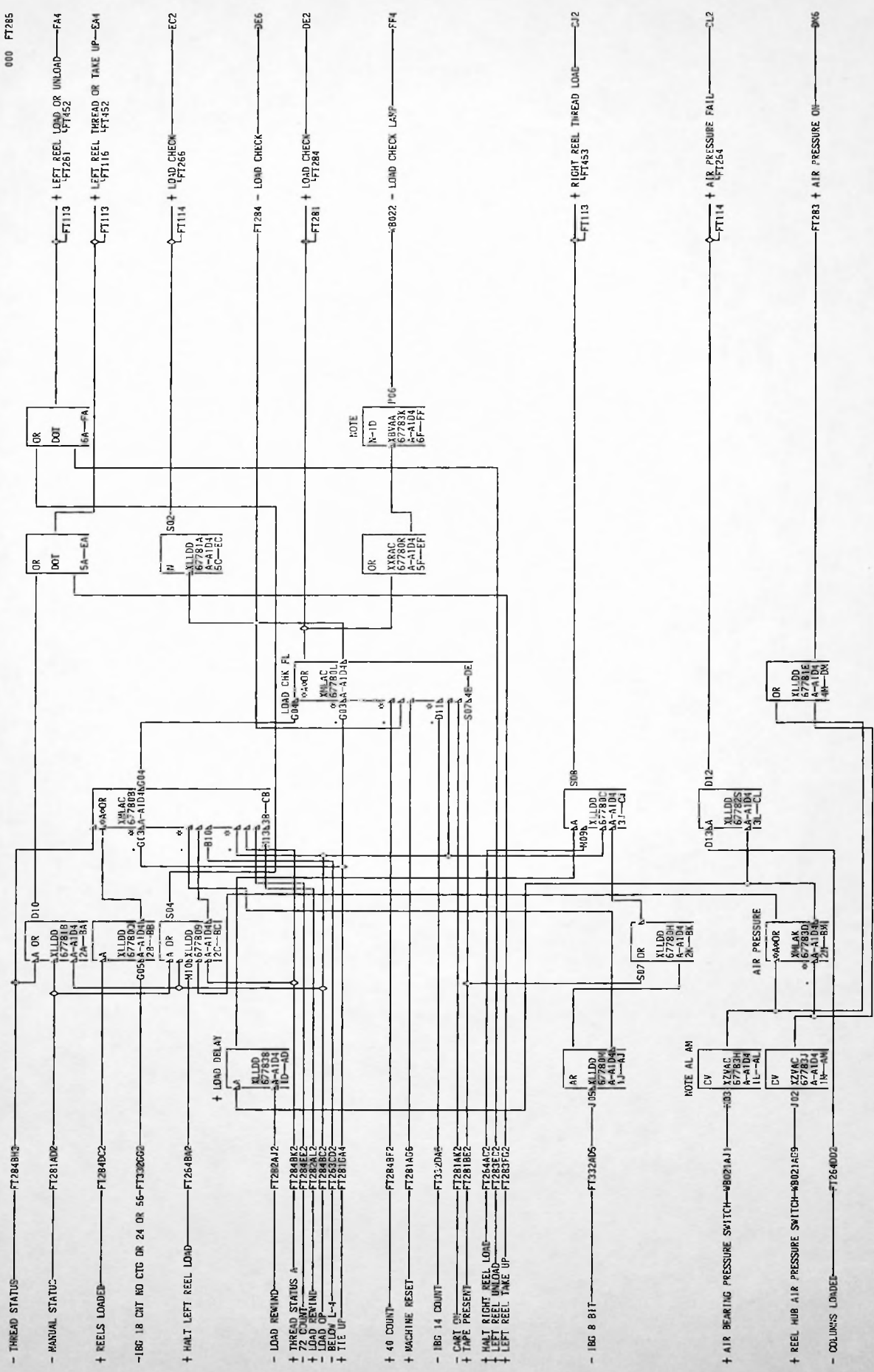
- TAPE PRESENT FT281BE1
- + REELS LOADED SWITCH M02A1A2
- + UNLOAD OP FT285FL2
- GATED LOAD PB M05A
- COILS UNLOADED FT283AK3
- + LOAD 72 COUNT FT322PH2
- + LOAD COMPLETE FT282M1C
- 180 40 COUNT FT320L4
- 18C CNT NO CTG OR 24 OR 55-FT382C02
- + TAPE PRESENT FT281BE2
- + LOAD CHECK FT285DE3
- + MACHINE RESET BOT S.S. FT281AD6
- + CART ON FT281AK6
- + RESET CTG HOLD LATCH FT311CH2
- CART ON FT281AK2
- LOAD CHECK FT285DE5
- 18C 4 BIT FT332AD4
- LOAD REWIND FT282AJ2
- TAPE BREAK FT282
- + TAPE BREAK FT150E
- LOAD OP A FT282
- REELS LOADED FT281
- REELS LOADED SWITCH FT283
- MIDDLE TAPE LOAD FT282
- LOAD OP FT281
- THREAD STATUS A FT282
- SET LOAD FT282
- LOAD OP FT283
- 72 COUNT FT283
- 40 COUNT FT283
- SET LOWA FT113
- REELS LOADED FT285
- THREAD STATUS FT285
- THREAD STATUS FT114
- 180 40 COUNT FT285
- 18C 4 BIT FT285
- SET UNLOAD LATCH FT285
- RESET CTG HOLD LATCH FT282
- RESET CTG HOLD LATCH FT283

NOTE  
CV  
Z1VAC  
67783C  
A-AID4  
18-AB

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

LOAD OP/0 THREAD STATUS  
REELS LOADED 50  
DATE 04-20-73 HACH. 3420-AP  
LOG 0120 FRAME 01  
P.N. 1848104  
LIB COMP. CO BLK. 000

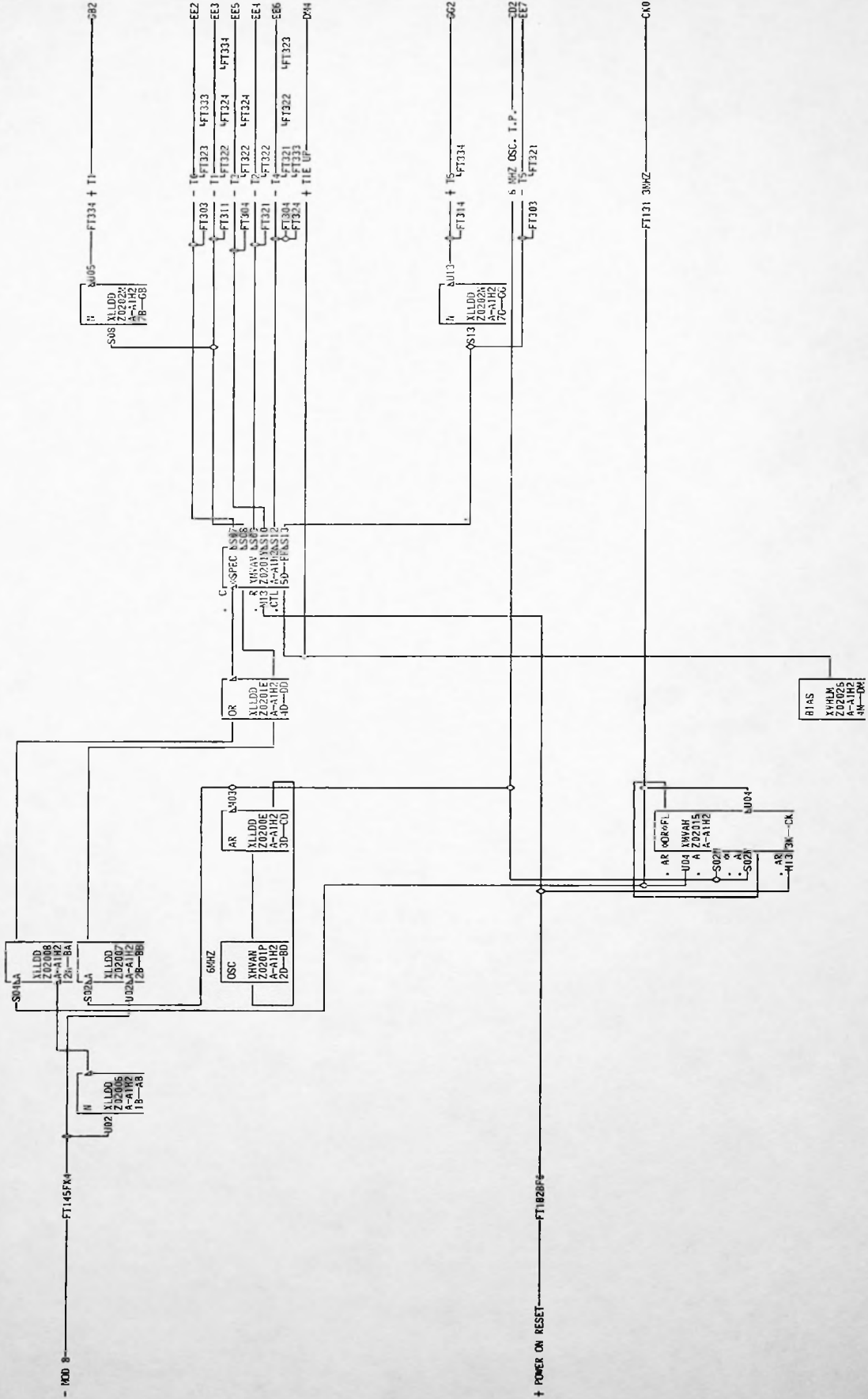
NOTE  
SPECIAL LEVELS  
F CHD TO -4 ABD  
1  
2  
3  
4  
000



01-21-73 734800

NOTE:  
SPECIAL LEVELS  
F GND TO -4 ALD AND/O  
T +12 TO GND FF4  
2  
S

LOAD CHECK	LOG	P.N.	000
AIR PRESSURE DETECT	017	1848105	FJ
DATE 08-30-73 MACH. 3420-RP	01		
LOG	01		



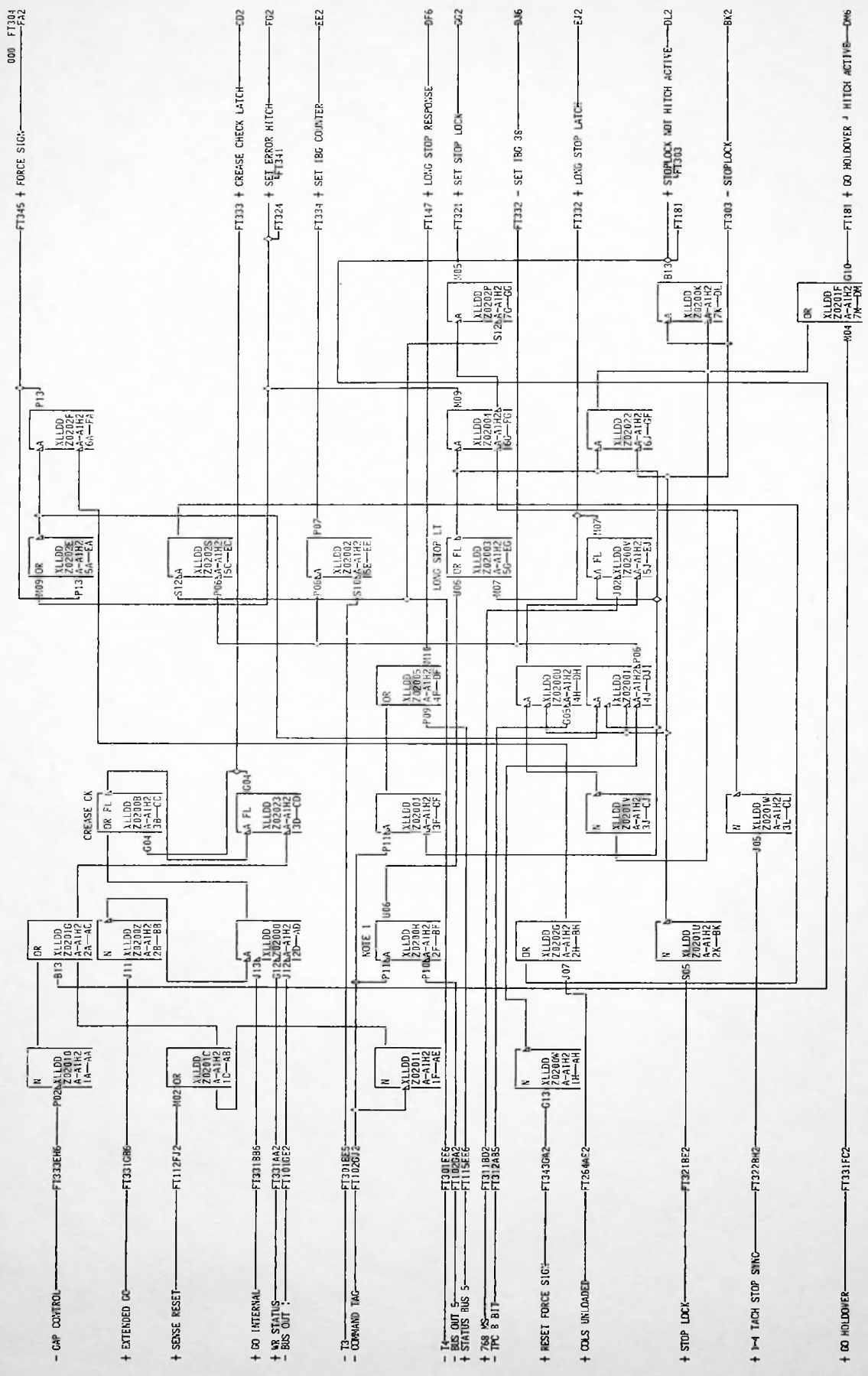
GRAY CODE COUNTER  
 6MHZ OSC  
 DATE 07-13-81 MACH. 3420-RP  
 LOG 0119 FRAME 01 0  
 P.N. 1848105 000  
 I.B.M. CORP. BLK. GA

01-21-73 734800  
 04-14-73 735610  
 06-14-73 735610







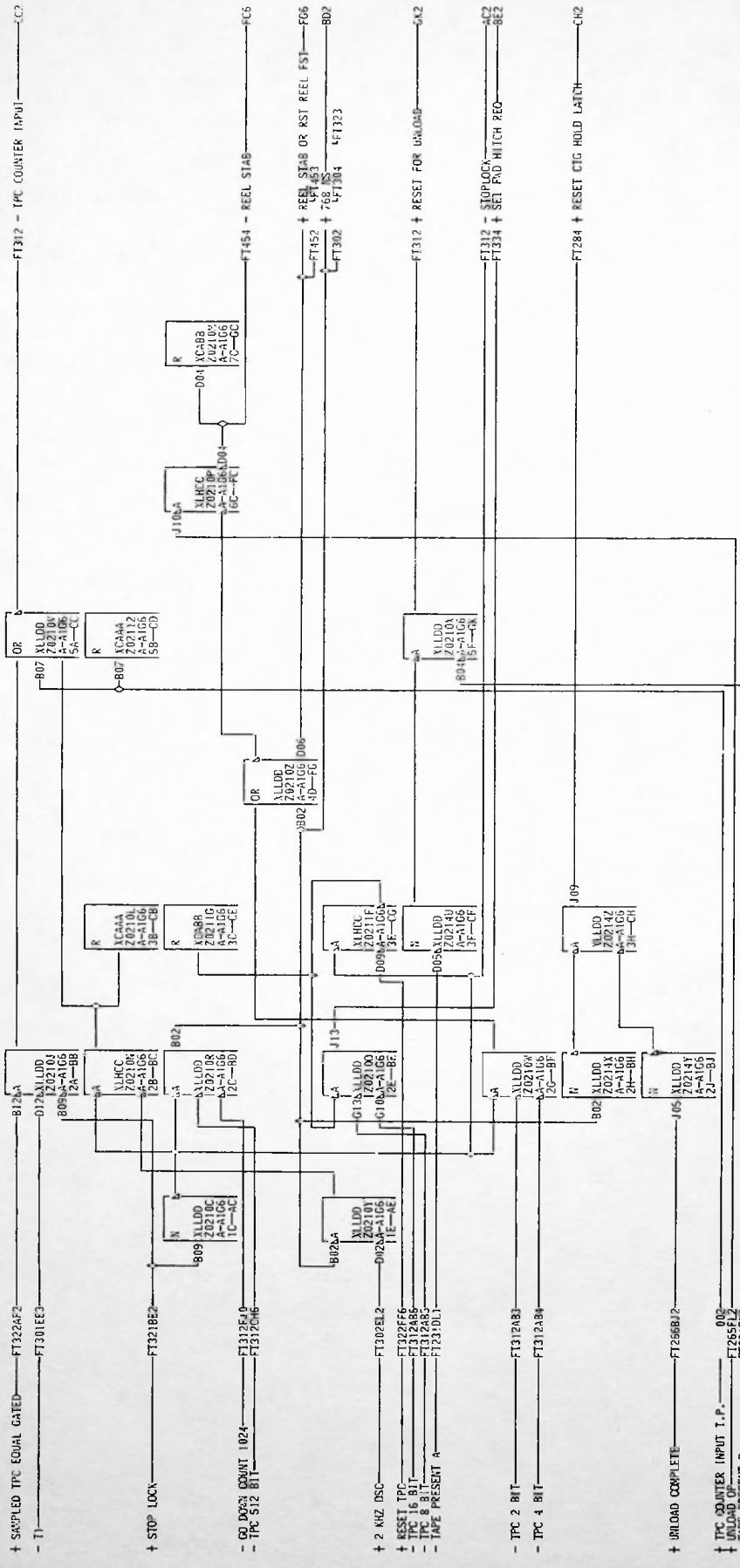


CREASE TIME CTRL	F
DATE 07-13-81	T
LOG 0079	3
FRAME 01	4
P.N. 1848109	000
BLX.	000

01-21-73 734800  
08-27-73 734801  
08-15-73 735810  
03-22-74 735815  
07-29-74 735818

NOTE: OPERATOR ONLY  
CHECK OPERATOR MANUALS  
T JUNESE, H206 TO T2111  
3 FACTORY ONLY  
0 4  
000

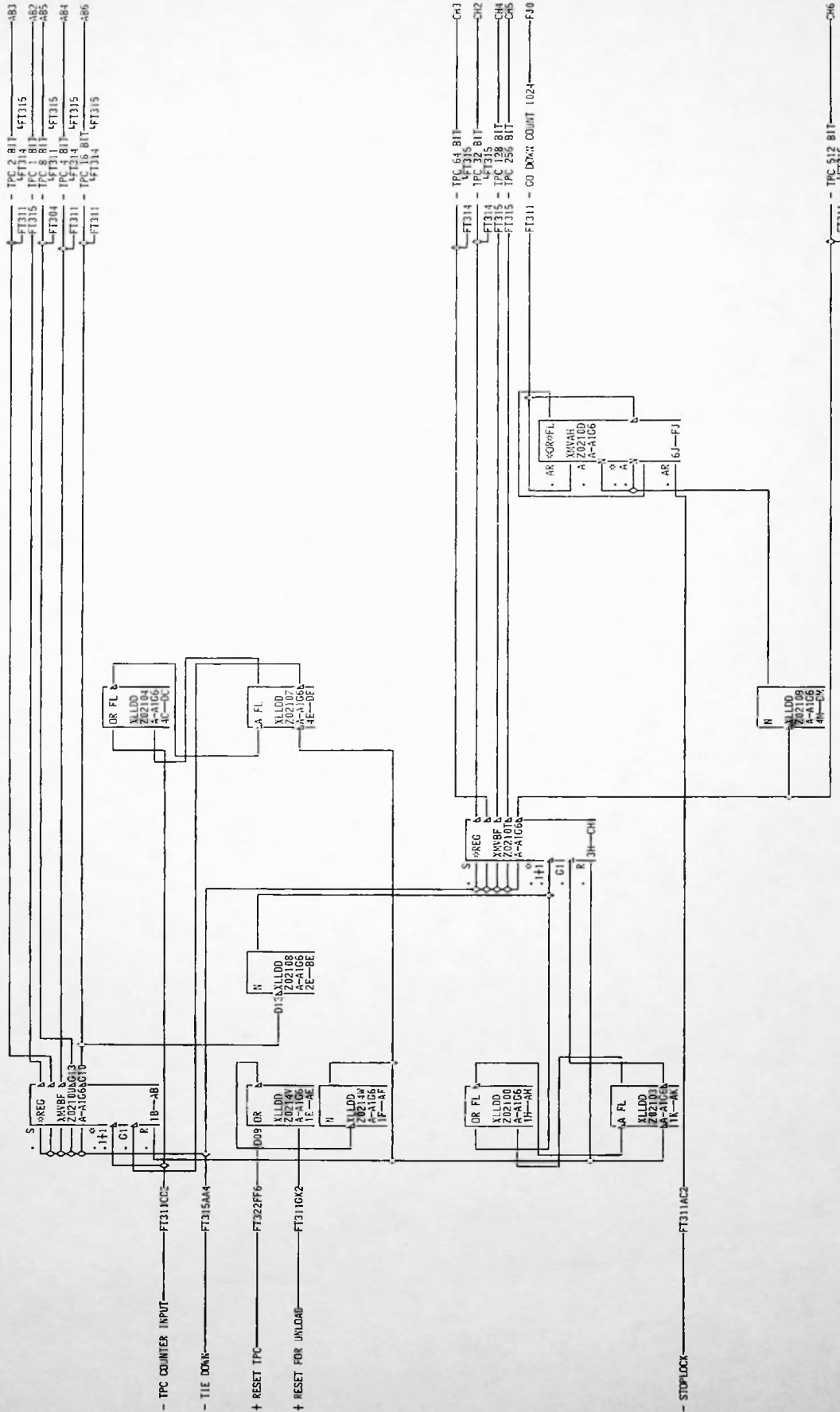




+ SAMPLED TPC EQUAL GATED FT322AF2  
 - T1 FT301EE3  
 + STOP LOCK FT3218E2  
 - GO DOWN COUNT 1024 FT312E1D  
 - TPC 512 BIT FT3120H6  
 + 2 KHZ OSC FT302EL2  
 + RESET TPC FT322FF6  
 - TPC 16 BIT FT312AB5  
 - TPC 8 BIT FT312AR5  
 - TAPE PRESENT A FT312DL1  
 - TPC 2 BIT FT312AB3  
 - TPC 4 BIT FT312AB4  
 + UNLOAD COMPLETE FT268J2  
 + TPC COUNTER INPUT T.P. 002  
 + UNLOAD OF FT265FL2  
 - TAPE PRESENT B FT231EE2

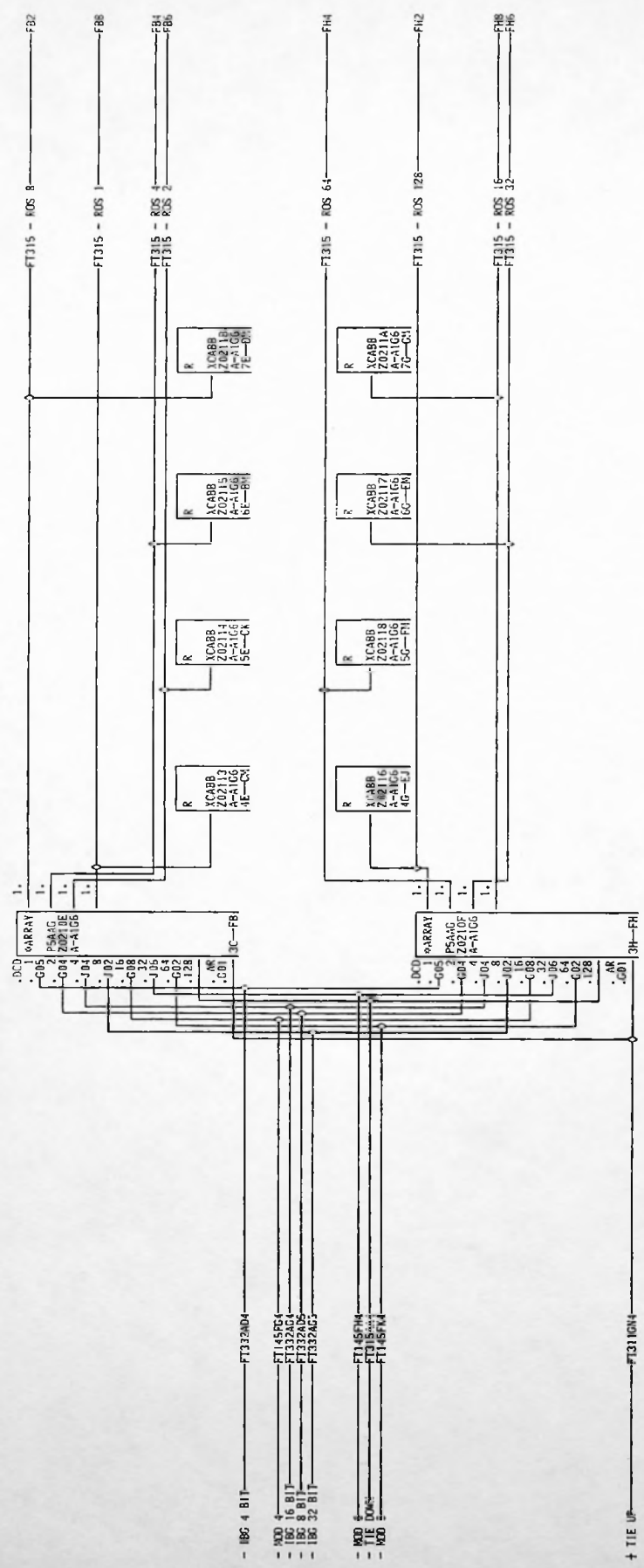
BIAS  
 XVLIN  
 Z02110  
 A-A106  
 7A-60  
 01-21-73 734830  
 04-27-73 734801  
 06-14-73 735810  
 08-13-73 735811

4 KHZ OSC TACH PERIOD CIR  
 DECDED  
 DATE 07-13-81 SACH. 3420-RP  
 LOG 0120 FR-WE 01  
 P.N. 1848111  
 IRII CORP. SDD BLK. 000



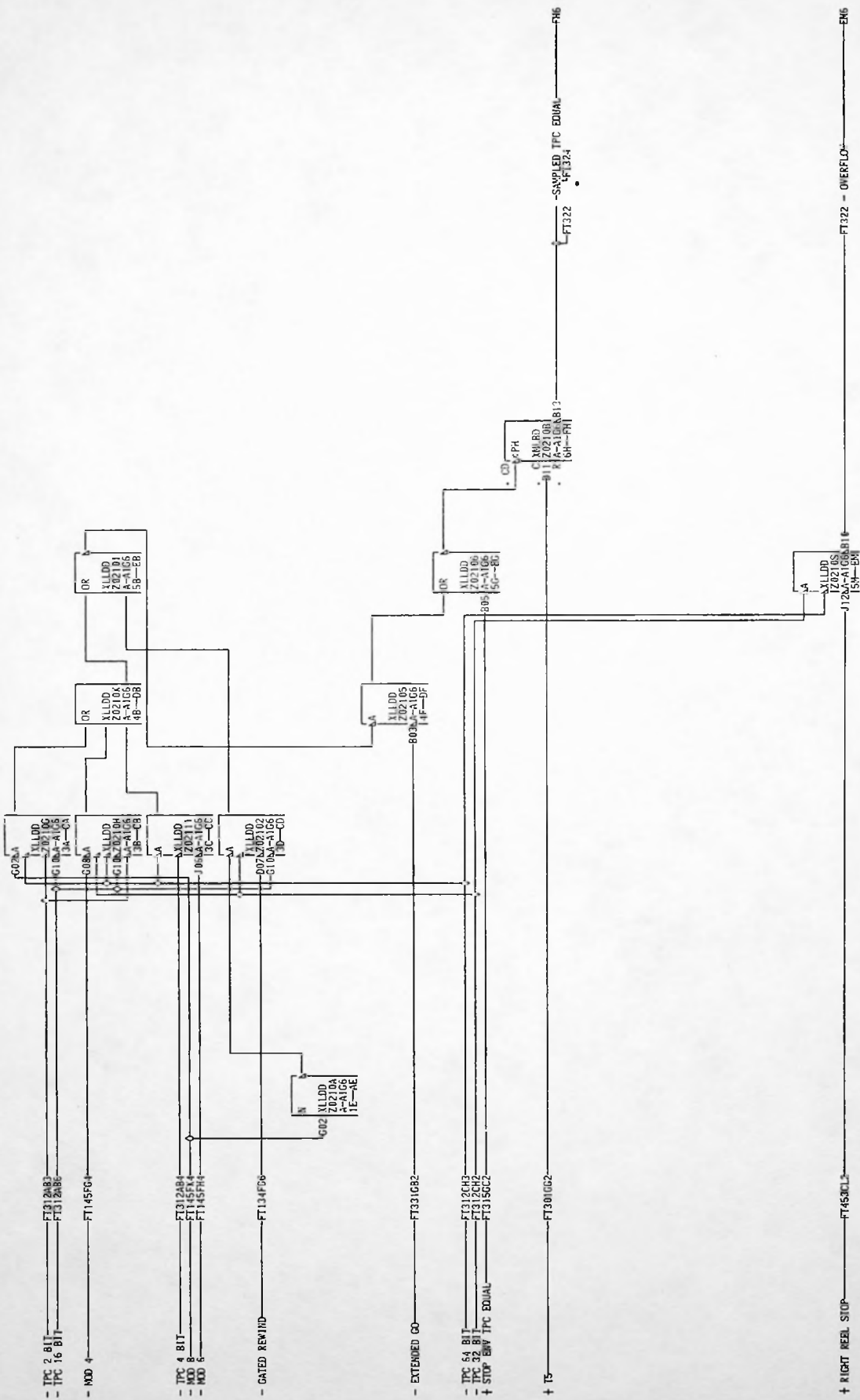
01-21-73 734800  
 04-27-73 734801  
 05-14-73 735810  
 08-15-73 735811  
 10-10-73 735812

TACH PULSE COUNTER  
 DATE 07-13-81 MACH. 3420-RP  
 LOG 0060 FRAME 01 2  
 P.N. 1848112  
 IBM COMP. SDD BLX. 000 GG



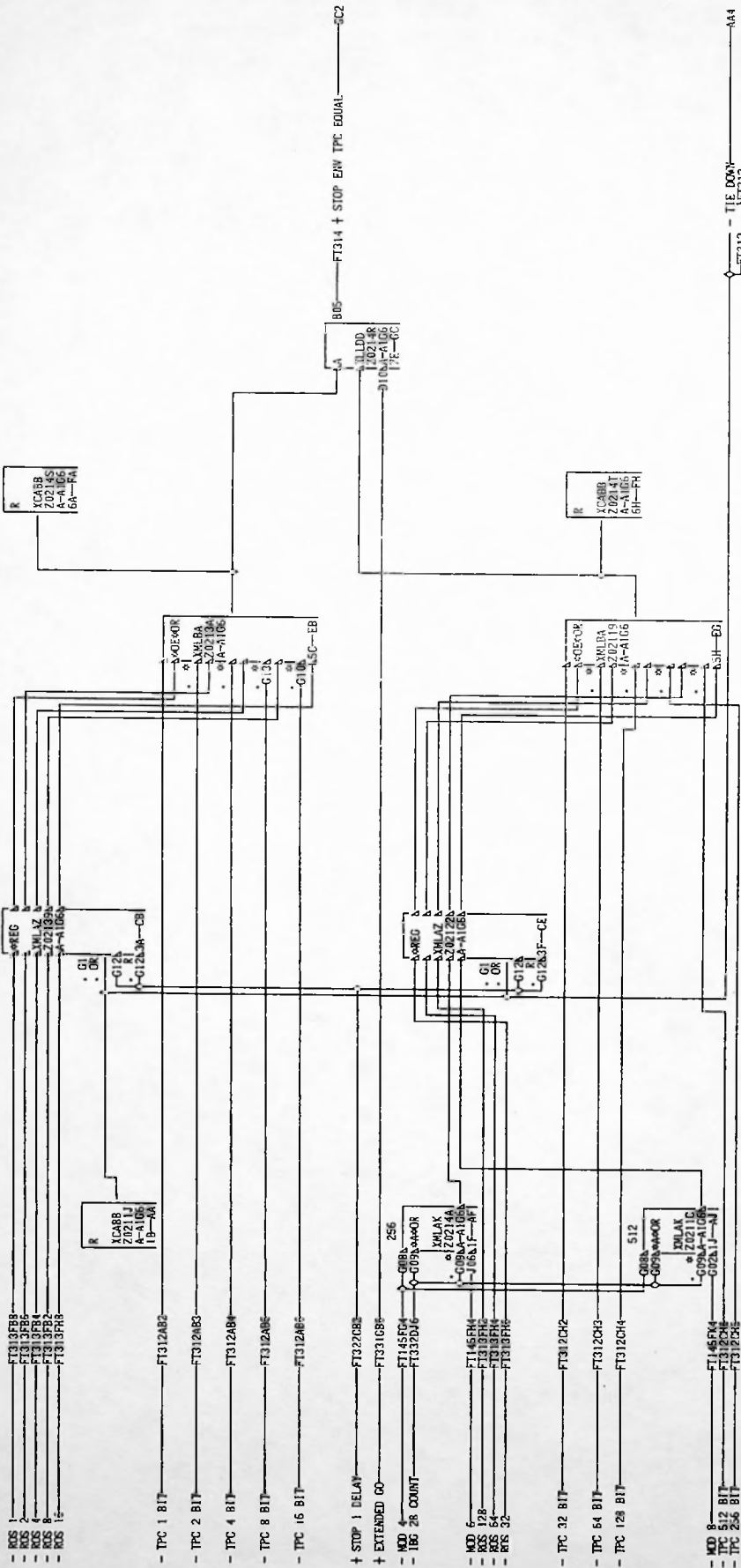
01-20-73 734800  
84-20-73 734801

ROS  
DATE 07-13-81 WACH. 3460-RP  
LOG 0118 FRAME 01  
P.N. 1848113  
IBM CORP. CD BLK. 000



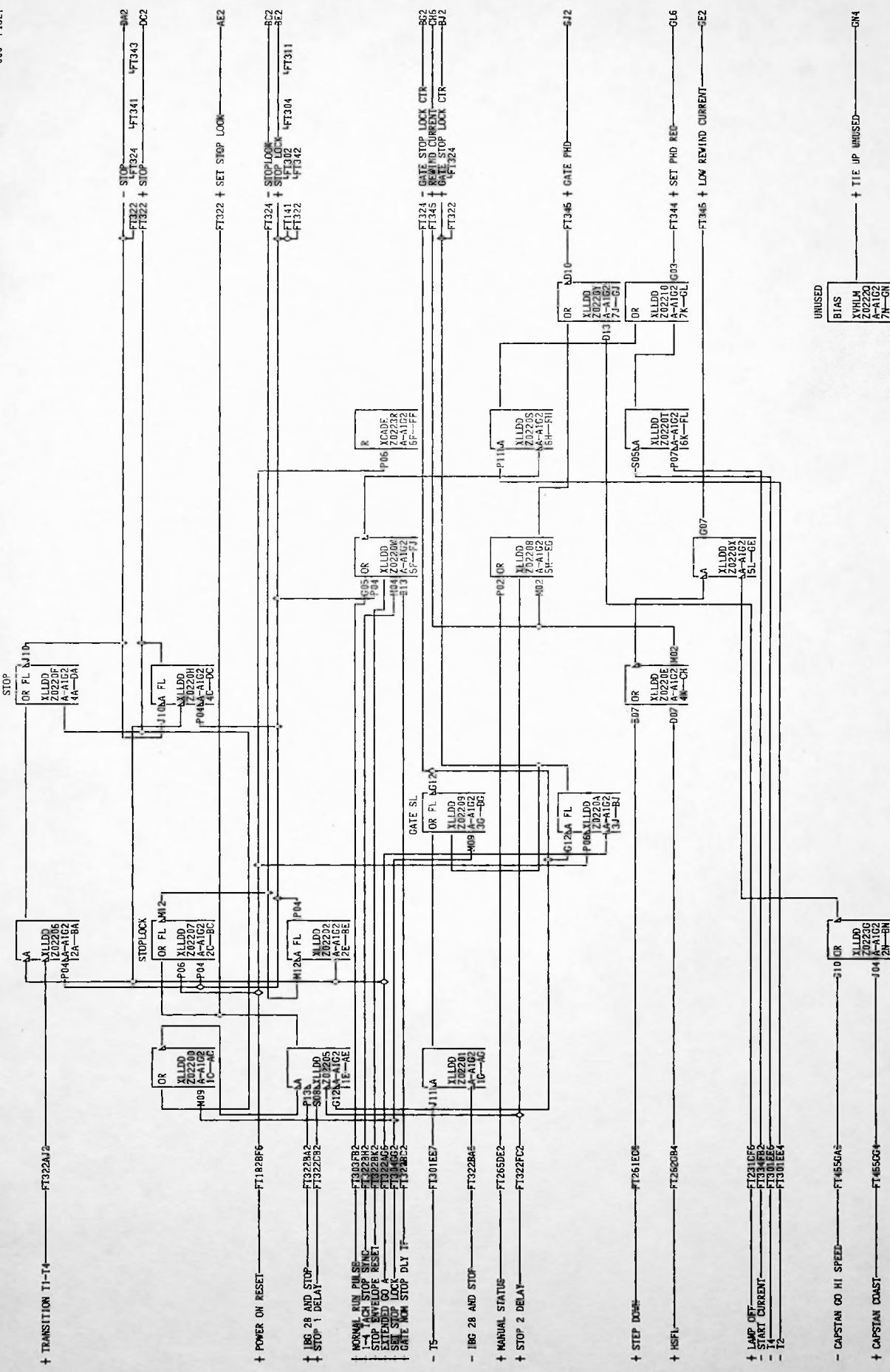
01-21-73 7:4600  
 04-21-73 7:4801  
 05-14-73 7:5810  
 05-15-73 7:5811  
 10-10-73 7:5812

SAMPLED TPC EDUAL  
 DATE 07-13-81 MACH. 3420-RP  
 LOC 0025 FRAME 01  
 P.N. 1848114  
 IIBN CORP. CPD BLK. GL



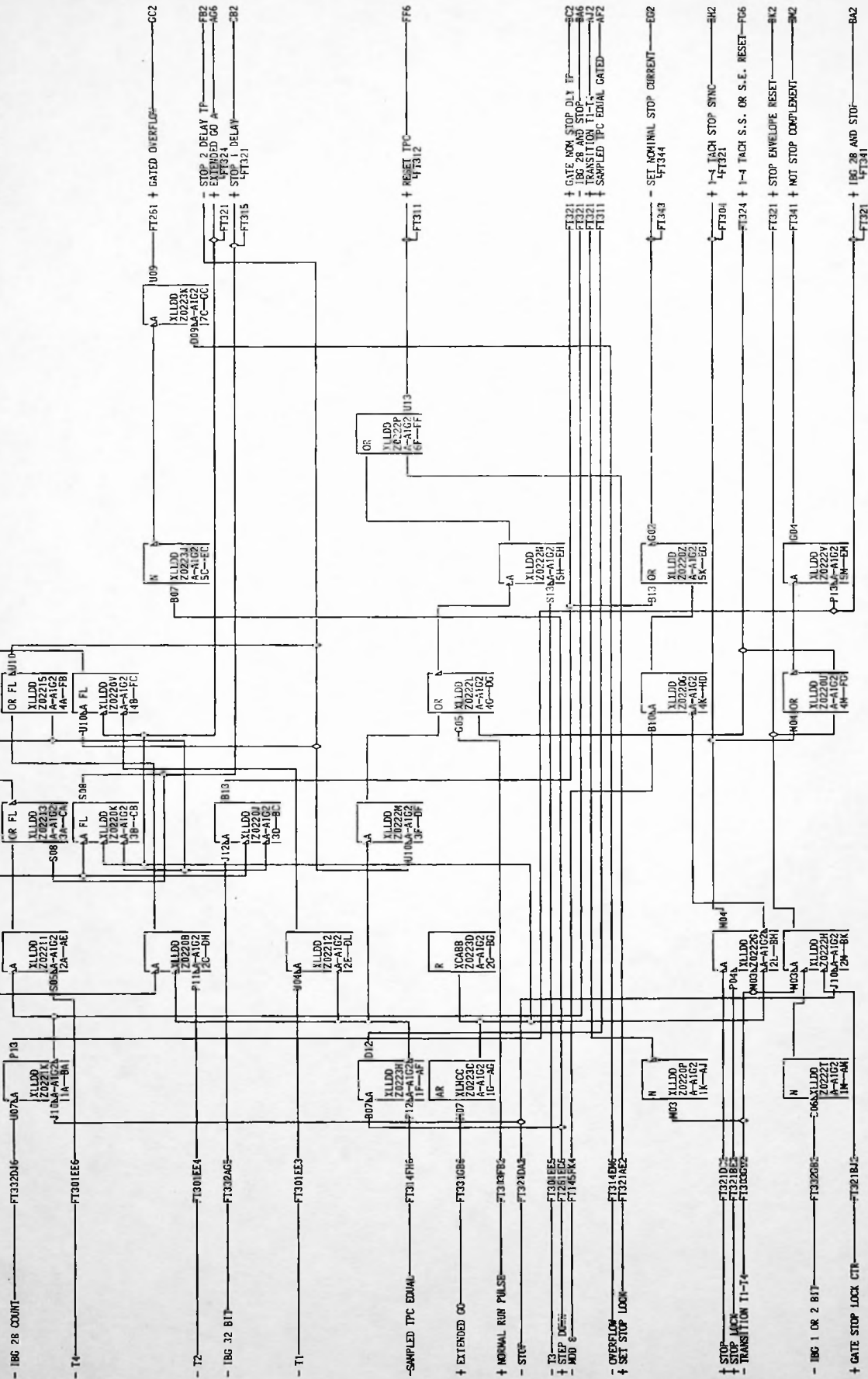
01-21-73 734800  
 04-27-73 734801  
 06-14-73 735810

TPC COMPARE	F
DATE 07-13-81 MACH. 34620-RP	T
LOG 0119 FRAME 01	3
P.N. 1848115	5
IBM CORP. CO BLK.	000



STOP LOCK AND PDC/PHD GATING  
 DATE 04-02-74 MACH. 3420-RP  
 LOG 0828 FRAME 01 2  
 P.N. 1848117 000

UNUSED  
 BIAS  
 XVR1M  
 Z02200  
 7A-10K  
 7A-10K  
 01-21-73 734800  
 04-27-73 734801  
 08-14-73 735810  
 08-14-73 735811  
 08-22-73 735815  
 08-22-73 735815

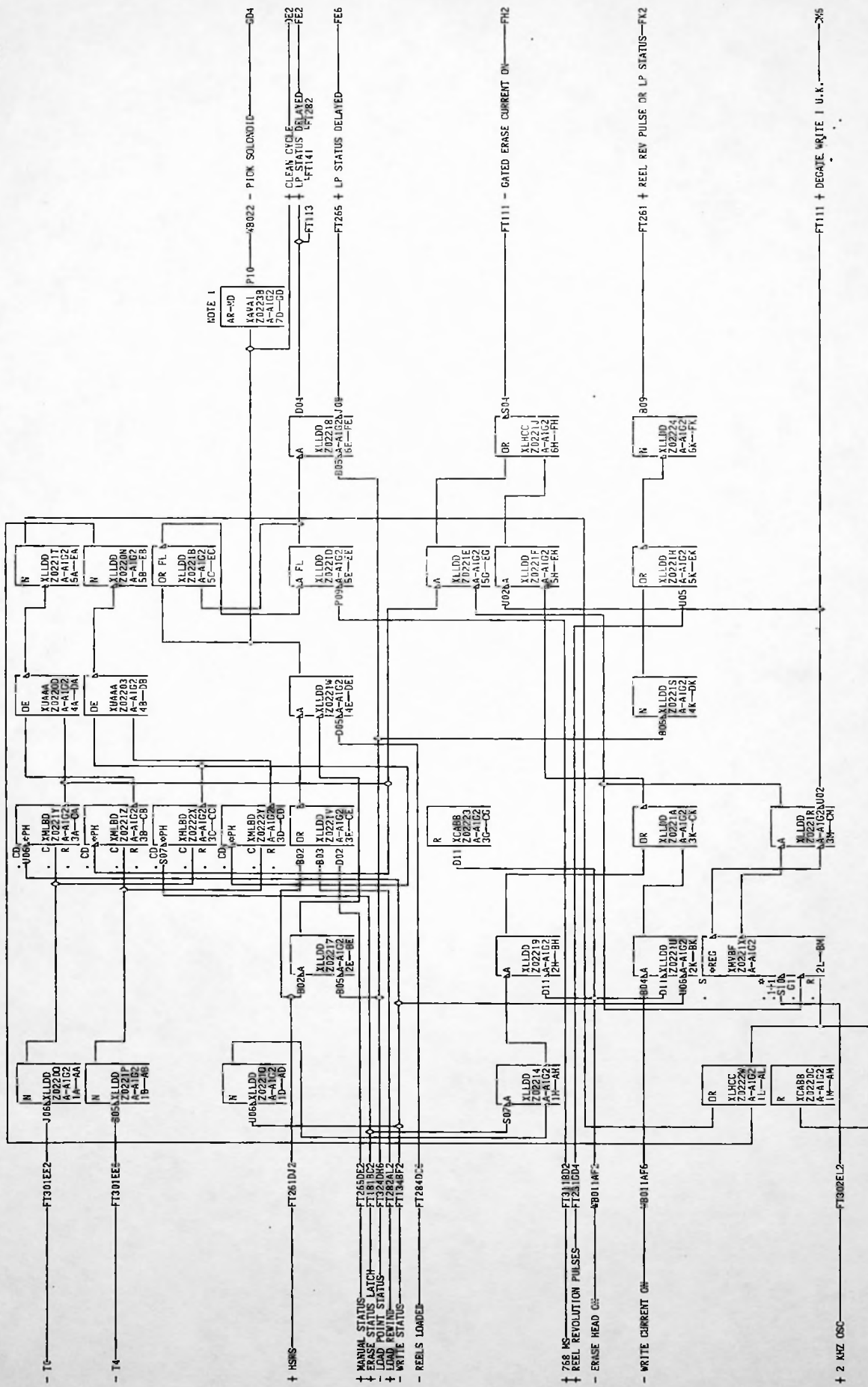


F	01	21-73	734800
T	1	01-73	735800
3	2	01-73	736800
2	2	08-13-75	443878
000			

DATE 07-20-81 MACH. 3420-RP  
LOG 6902 FRAME 01 2  
P.N. 1848118  
IBX COMP. CO BLK. HE

01-21-73 734800  
01-27-73 735800  
08-13-75 443878

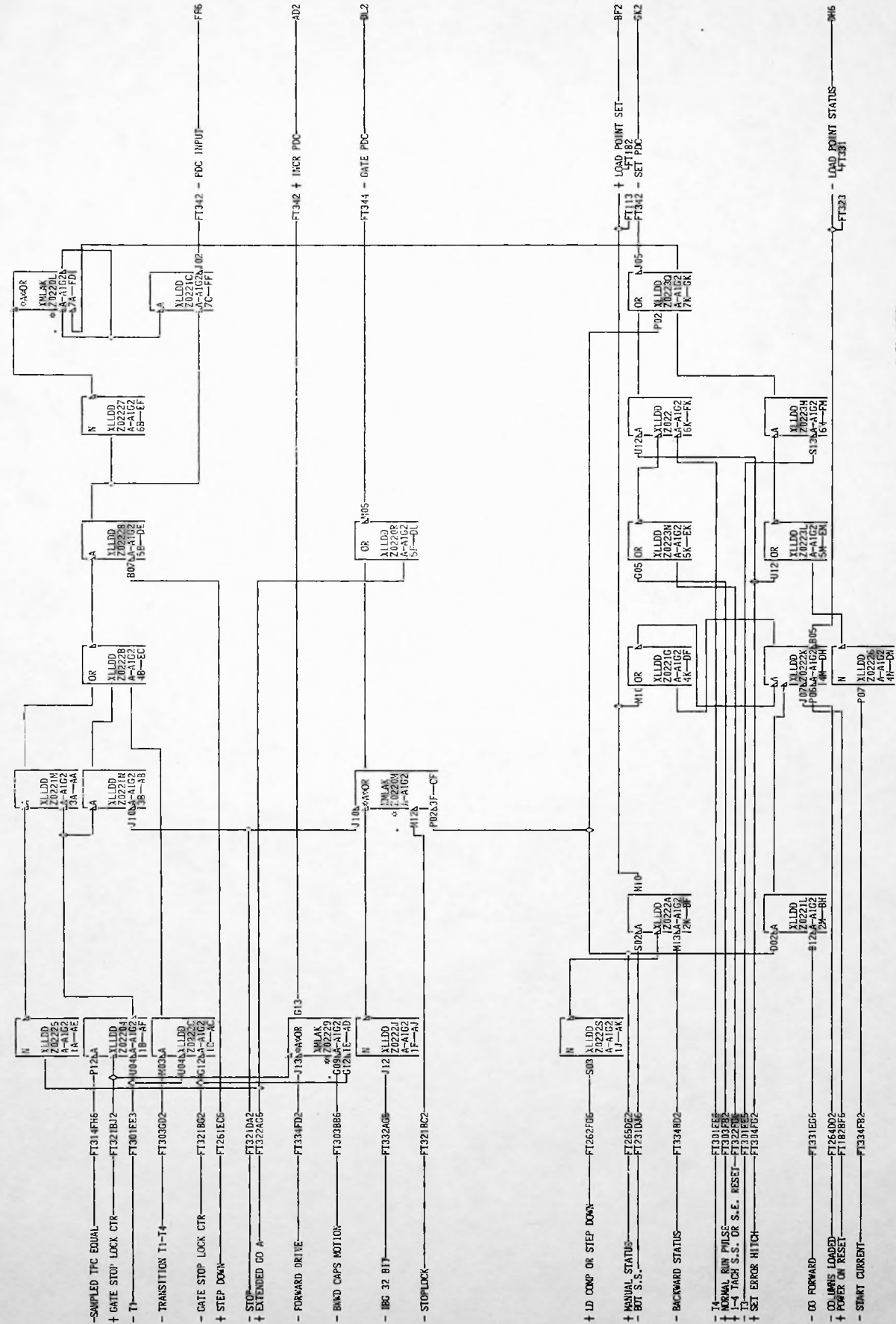




NOTE 1  
 C64CH12 TO GND  
 1  
 2  
 3  
 000

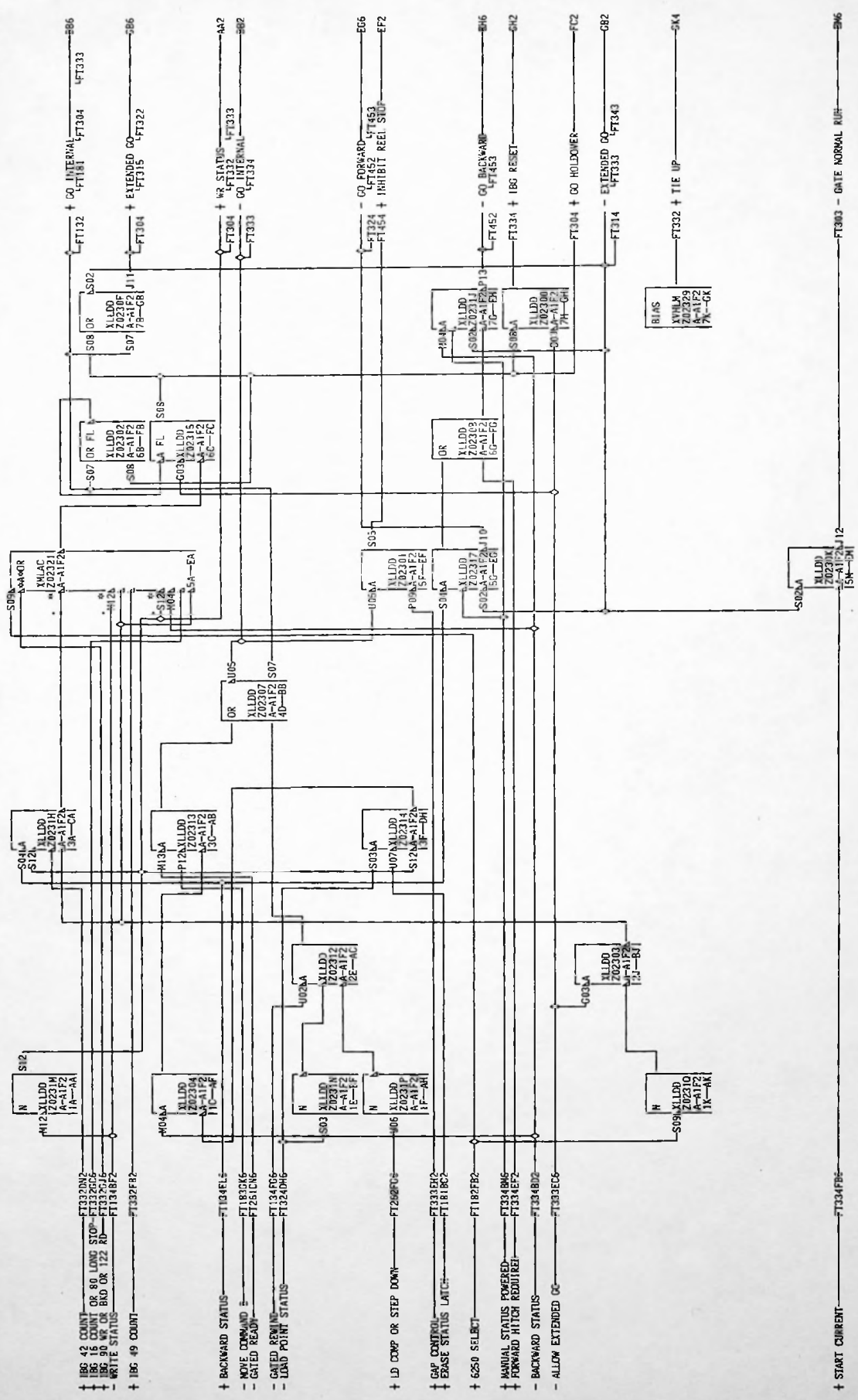
AUTO CLEANER CONTROL  
 DATE 03-28-74 MACH. 3420-PP  
 LOG OR35 FRAME 01 3  
 P.N. 1848119 000  
 IBM COMP. CO BLK. 06





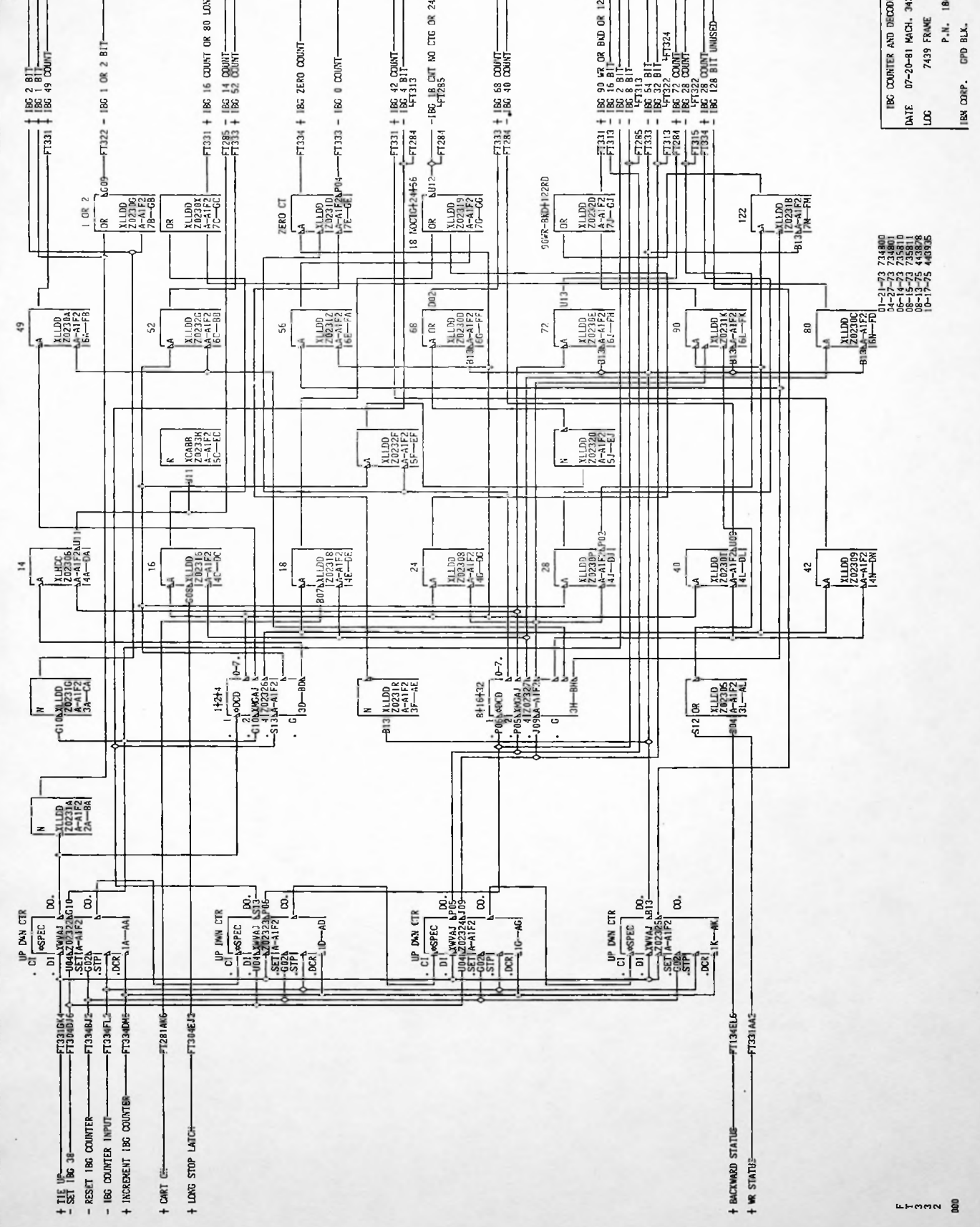
01-28-73 Z34800  
 04-29-73 Z34801  
 05-14-73 Z35810  
 05-02-74 Z35816

PROPORTIONAL DRIVE COUNTER  
 DATE 07-13-81 MACH. 3420-RP  
 LOG OR68 FRAME 01 2  
 P.N. 1848120 000  
 IBM CORP. CO. BLK. CL



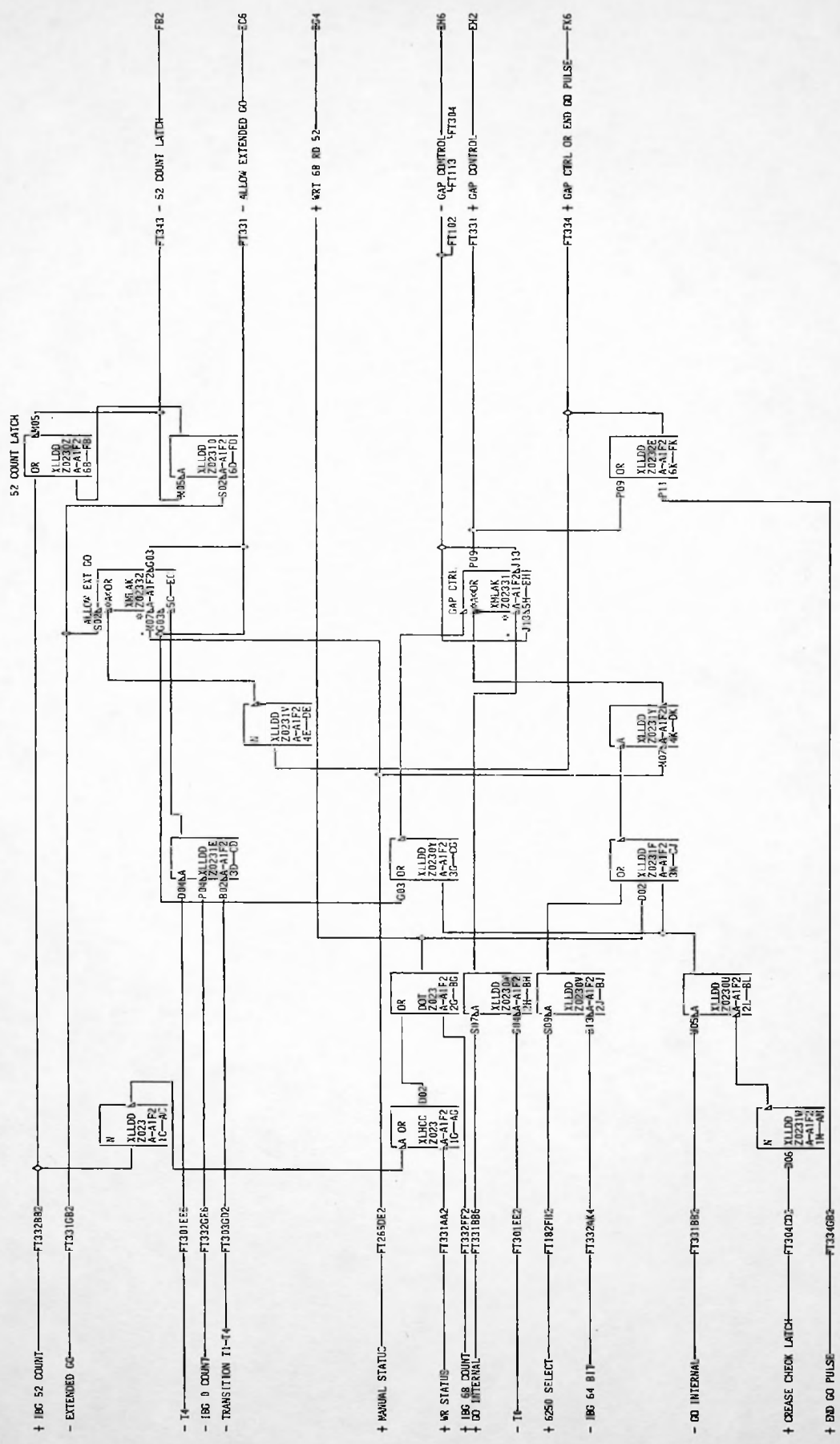
CO GENERATION	LD PT LATCH
CO NO. - CO BWD	F
DATE 07-13-81	MACL 3420-PP
LOG	7409 FRAME 01 3
	P.N. 1848122
	000
	IBM CORP. CO. BLK.

01-21-73 734800  
 04-27-73 734801  
 06-14-73 735810  
 08-13-75 445828  
 10-17-75 445936



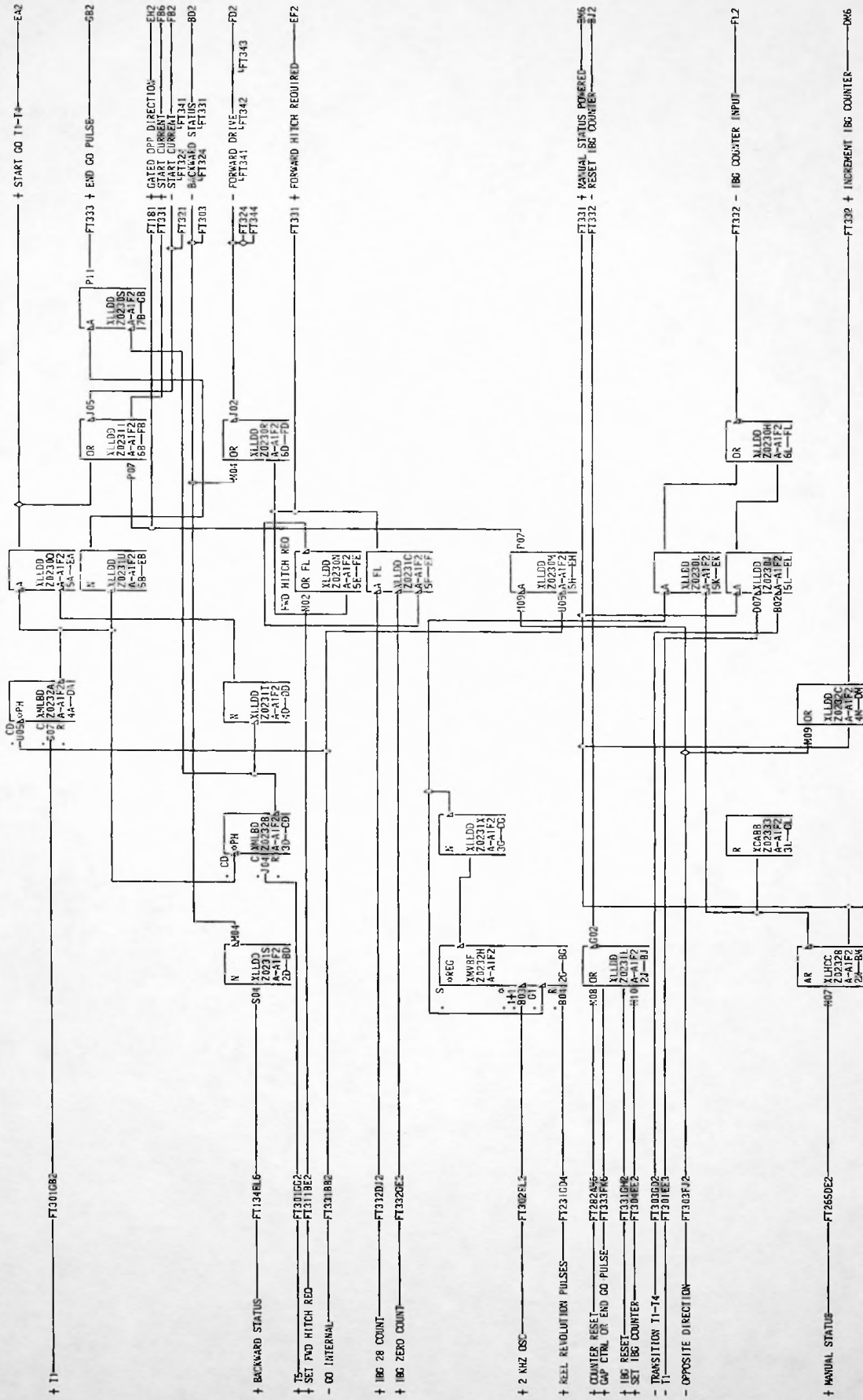
IBM COUNTER AND DECODES  
 DATE 07-20-81 MACH. 3420-RP  
 LOC 7439 FRAME 01 3 2  
 P.N. 1846123 000  
 IBM COMP. CPD BLK.

01-21-73 234800  
 04-27-73 234801  
 06-14-73 235810  
 08-13-75 443828  
 10-17-75 443935



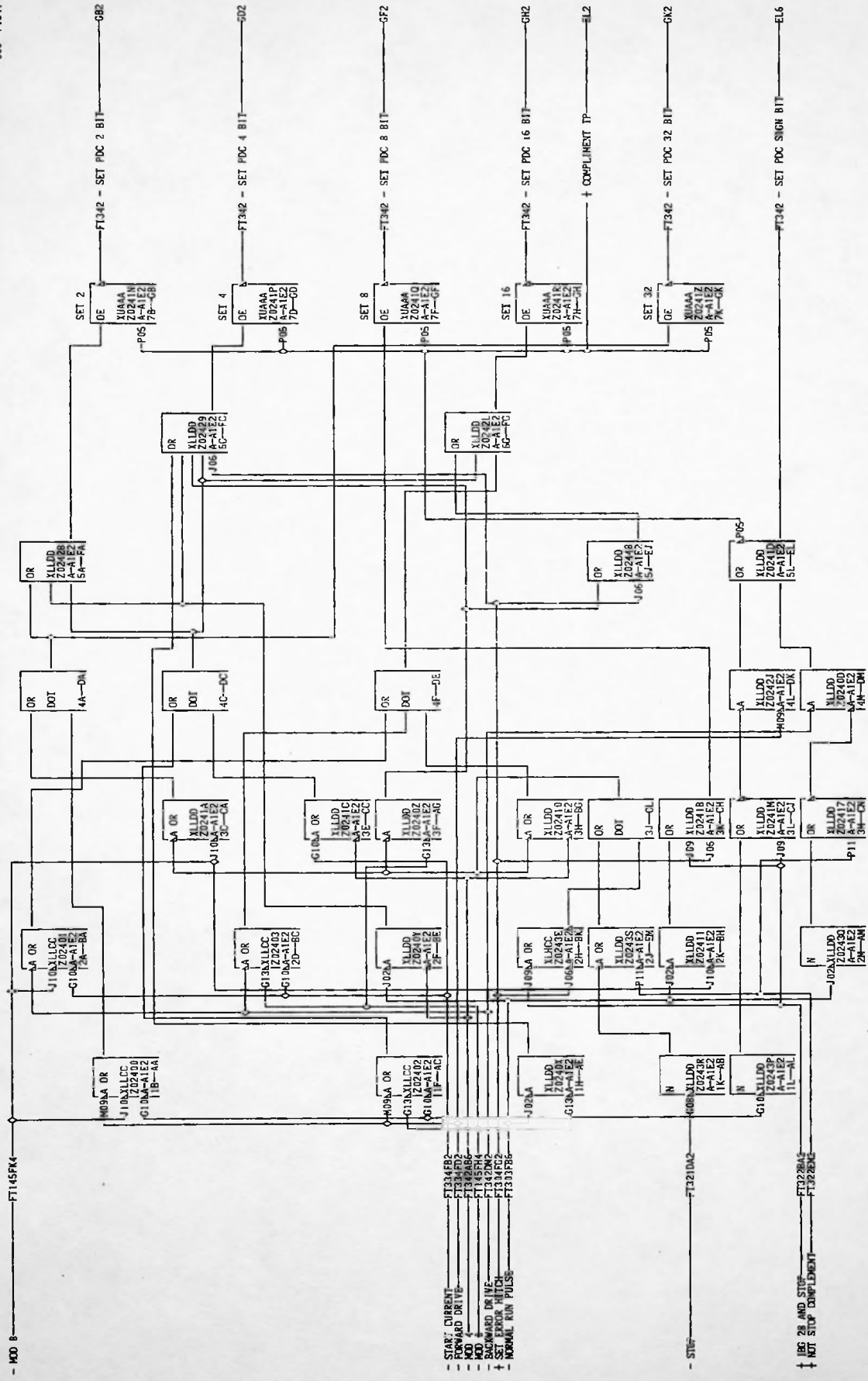
01-21-73 734800  
 04-27-73 734801  
 06-14-73 735810  
 08-15-73 735811  
 08-13-75 443878

ALLOW EXTENDED GO  
 GAP CONTROL  
 DATE: 07-13-81 MACH. 3420-8P  
 LOS 6902 FRAME 01 3 3  
 P.N. 1848124  
 IBM CORP. CPD BLK. 000



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

FORWARD HITCH CONTROLS			
DATE	01-13-81	MACH.	3420-RP
LOG	0050	FRAME	01
			3
			4
P.N.	1848125		000
IBN CONF.			DN

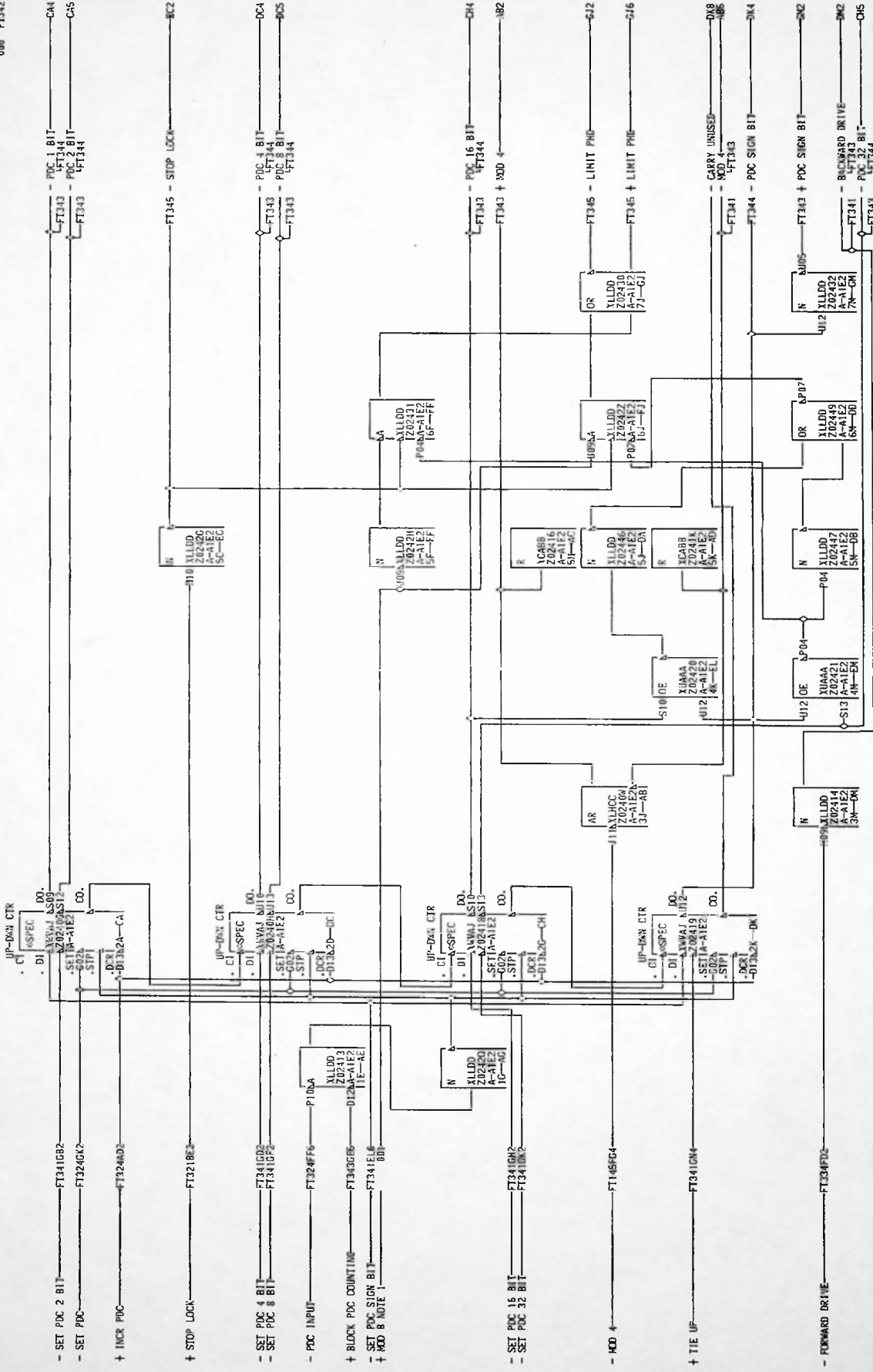


BIAS  
XVHLM  
Z02407  
Z02408  
Z02409  
Z02410

01-21-73 734850  
04-27-73 734801  
06-14-73 735810  
10-17-73 735915  
10-17-73 443915

000 FT341

PDC PRESET	F
DATE: 07-20-81	T
MACH. 3420-RP	1
LOC 7439 FRAME	01
P.N. 1848128	1
IBN CORP. CPD BLK.	000

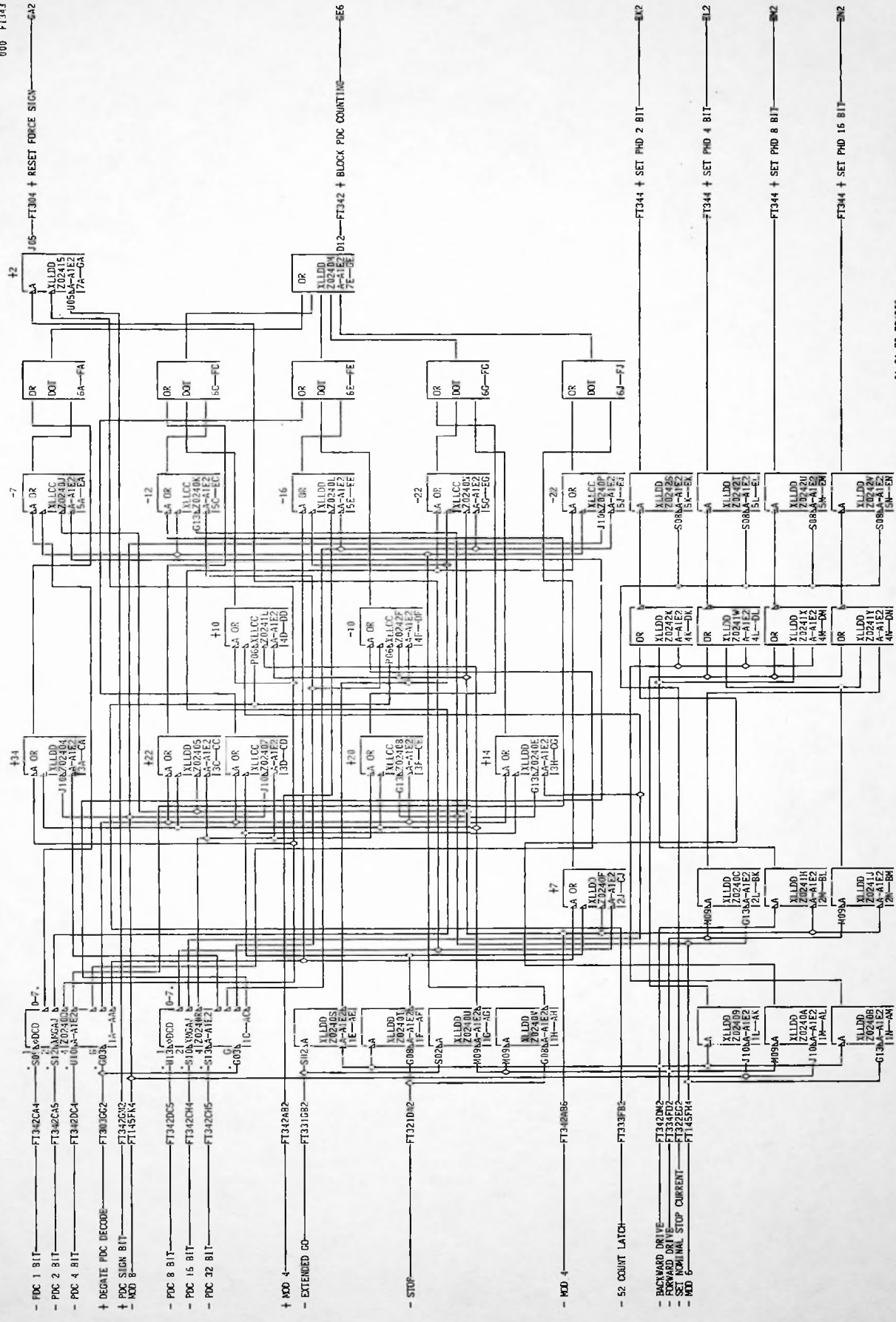


NOTE 1  
SEE A61 DS FOR  
F MODEL WIRING

01-21-73 234800  
04-27-73 234801  
05-14-73 235810

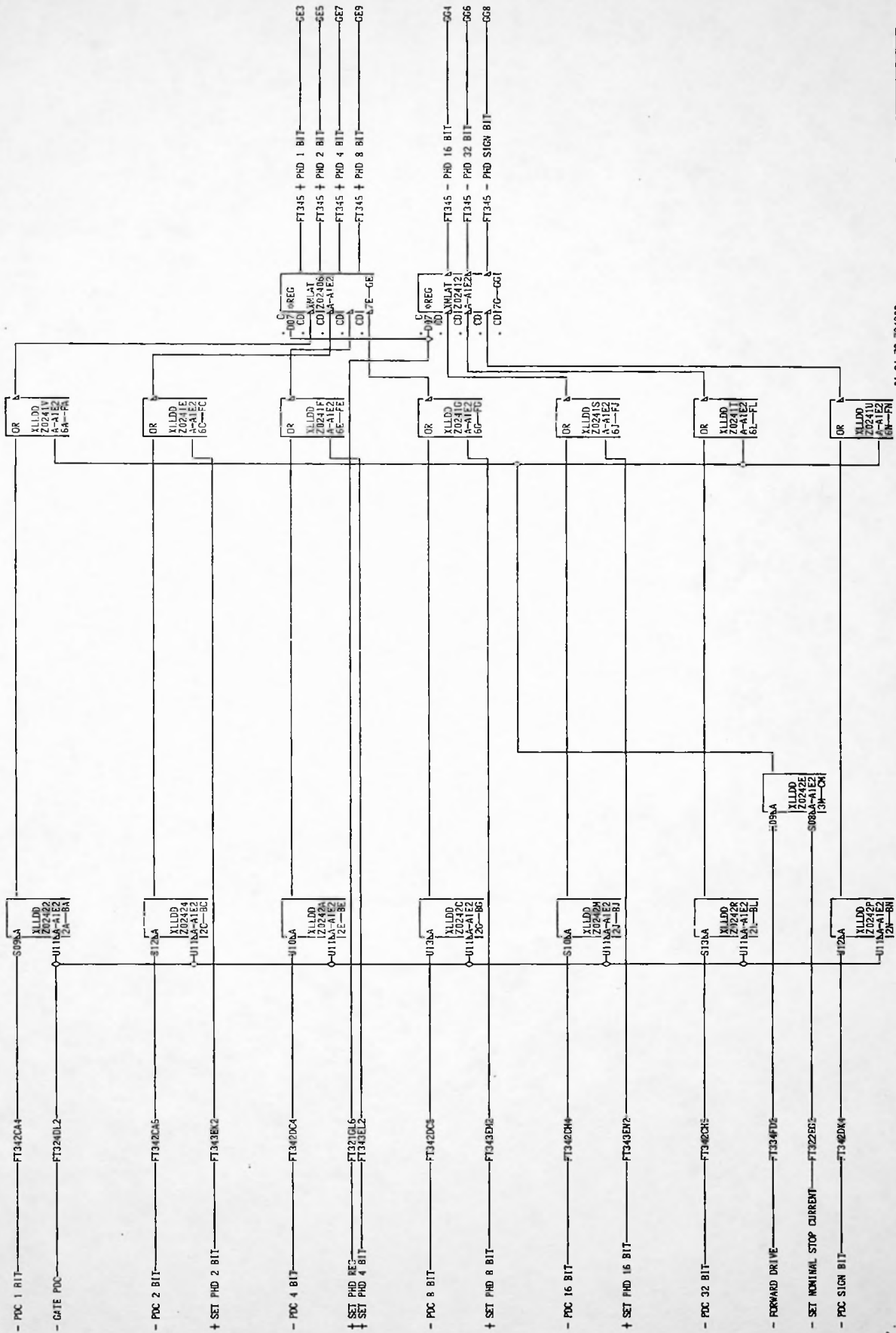
DATE	07-13-81	MACH.	3400-PP
LOG	0119	FRAME	011
P.N.	1848129	BLK.	000
IBM COMP.	CO	BLK.	000





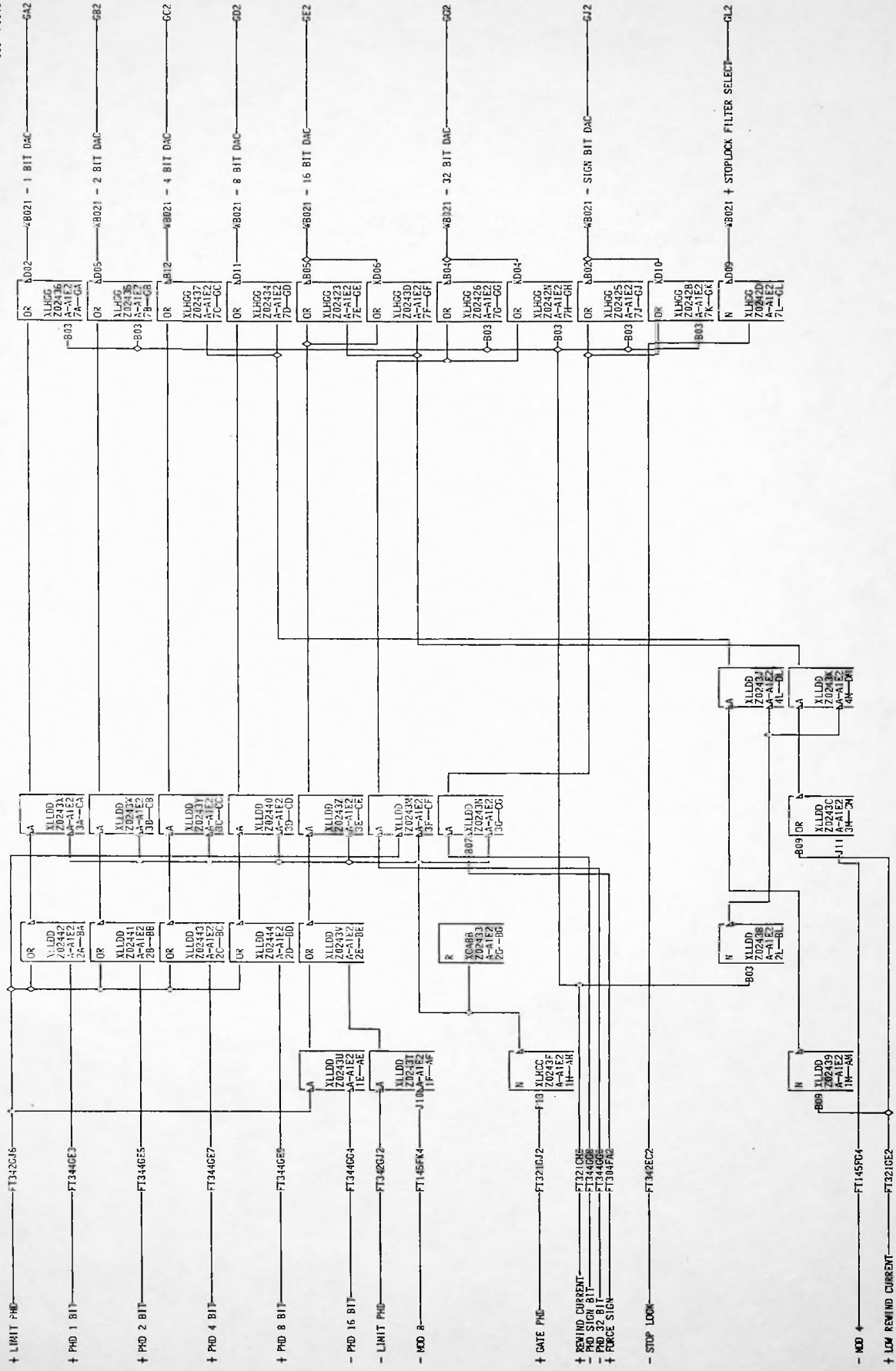
01-21-73 734800  
 04-27-73 734810  
 06-14-73 735810  
 08-15-73 735811  
 PDC DECODING  
 DATE 07-13-81 MACH. 3423 RP  
 LOG 0120 FRAME 01 4 3  
 P.N. 18483B 000  
 IBM COMP. GFD BLK. GF





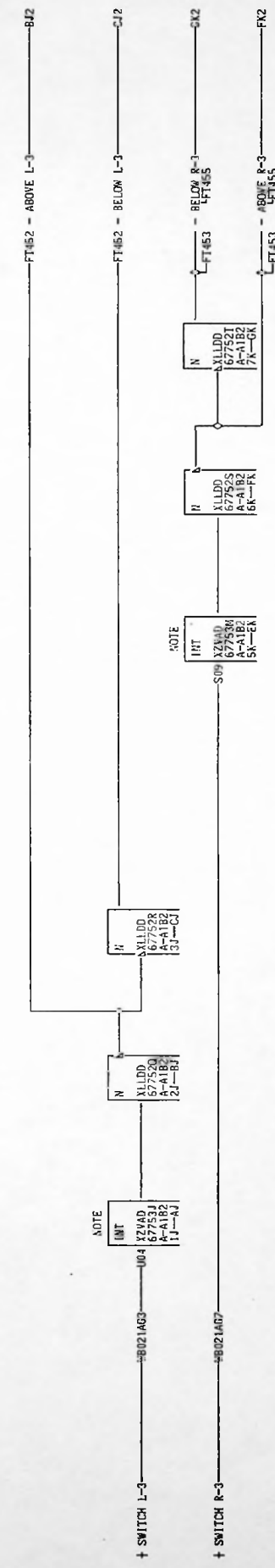
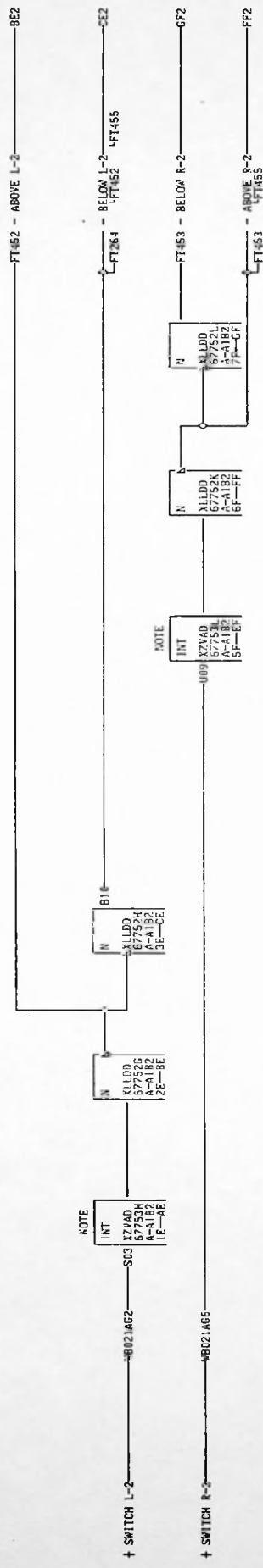
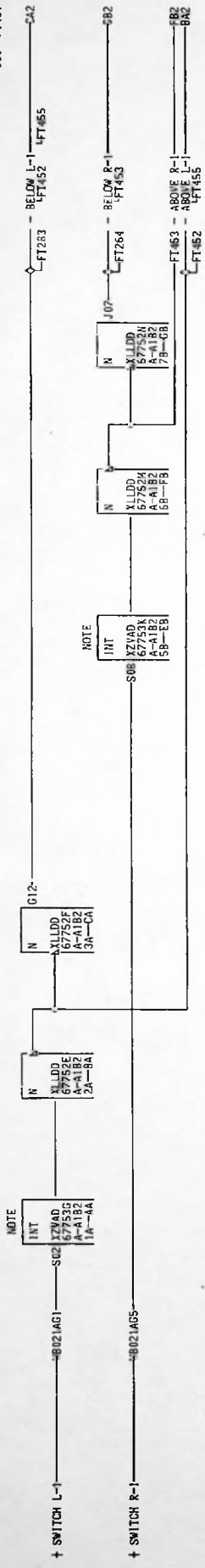
01-21-73 734600  
04-21-73 734601

POLARITY HOLD DRIVE REGISTER	
DATE	07-13-81 MACH. 3420-RP
LDC	0118 FRAME 01 4
P.N. 1848131	
IBM CORP. GPD BLK. 000	



84-27-73 234801  
 06-14-73 235810  
 03-01-74 235814

DAC GATING AND REWIND CONTROL	
DATE	07-13-81 MACH. 3420-RP
LOG	0880 FRANE 01 5
	P.N. 1848132
IBM CORP.	C/PD BLK. 000



NOTE

INT XZVAD  
67753G  
A-A1B2  
1A-AA

NOTE

INT XZVAD  
67753K  
A-A1B2  
5B-EB

NOTE

INT XZVAD  
67753H  
A-A1B2  
1E-AE

NOTE

INT XZVAD  
67753L  
A-A1B2  
5F-EF

NOTE

INT XZVAD  
67753I  
A-A1B2  
1J-AJ

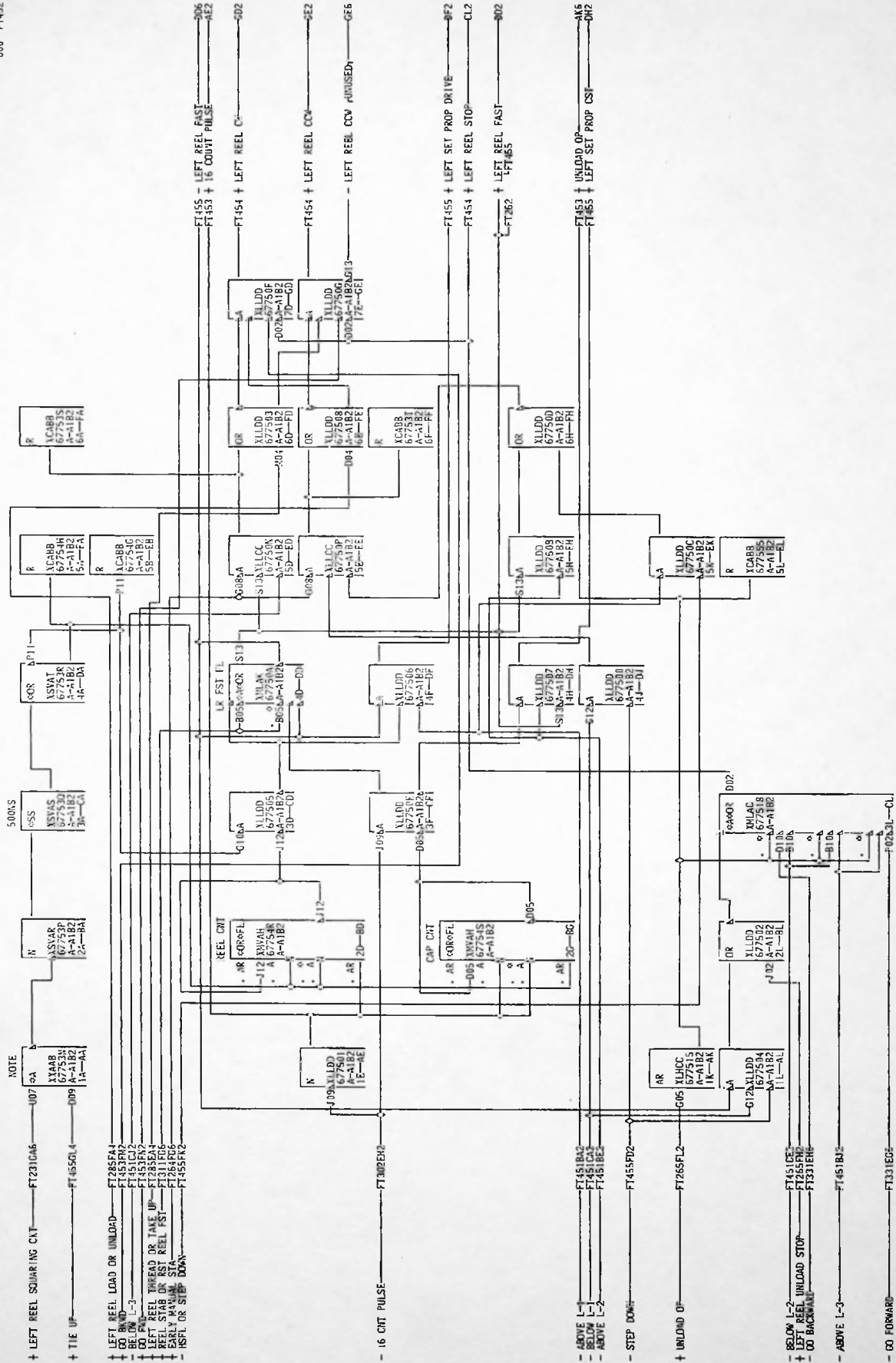
NOTE

INT XZVAD  
67753M  
A-A1B2  
5N-EN

NOTE: SPECIAL LEVELS\*  
F GND TO -1.0 AND MED  
T AND EBF EPD END  
4 4 5 1  
000

01-21-73 734800

LEFT AND RIGHT REEL CONTROL  
VACUUM SWITCHES  
DATE 08-30-73 MACH. 342L-RP  
LOG 0117 FRAME 01 5 1  
P.N. 1848133  
IBN CORP. CO BLK. 000 0K



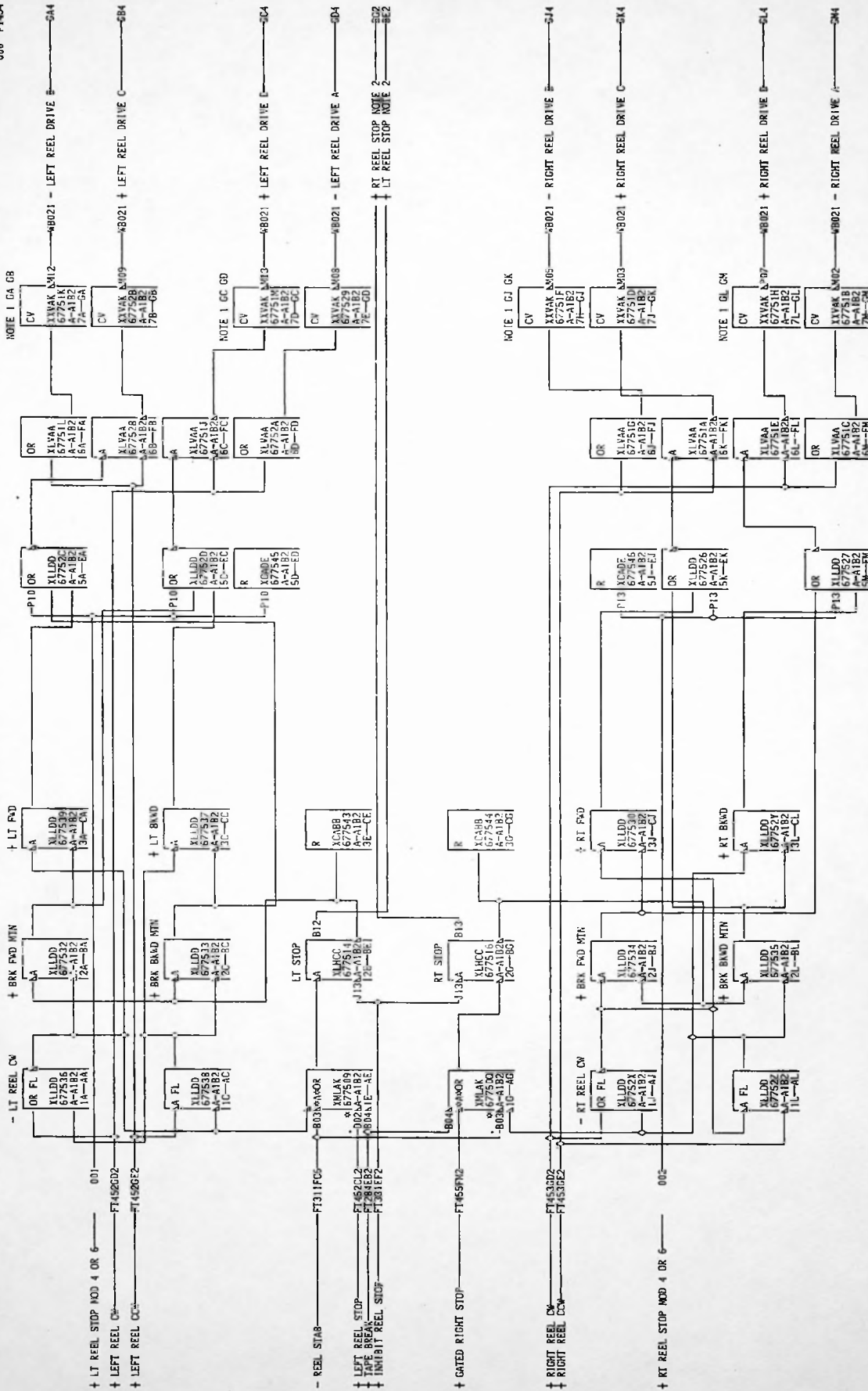
- NOTE
- + LEFT REEL SQUARING CNT FT2310A6
  - + TIE UP FT4550L4
  - + LEFT REEL LOAD OR UNLOAD FT285F4
  - + DO PAUSE FT451C2
  - + LEFT REEL THREAD OR TAKE UP FT285E4
  - + REEL STAB OR SET REEL FST FT311D6
  - + REEL OR STOP DOWN FT455F2
  - 16 CNT PULSE FT302E2
  - ABOVE L-1 FT451B2
  - BELOW L-2 FT451C2
  - STEP DOWN FT455F2
  - + UNLOAD OP FT285F2
  - BELOW L-2 FT451C2
  - + LEFT REEL UNLOAD STOP FT285F4
  - DO BACKWARD FT331E4
  - ABOVE L-3 FT451B2
  - CO FORWARD FT331E2

NOTE  
 SPECIAL LEVELS  
 F 16.0 TO GND 44B  
 T 1  
 4  
 2  
 000

01-21-73 734800

LEFT REEL CONTROL	
DATE	07-13-81 MACH. 3420-HP
LOG	0117 FRAME 01
	P.N. 1848134
	IBN COMP. CO BLK. 000

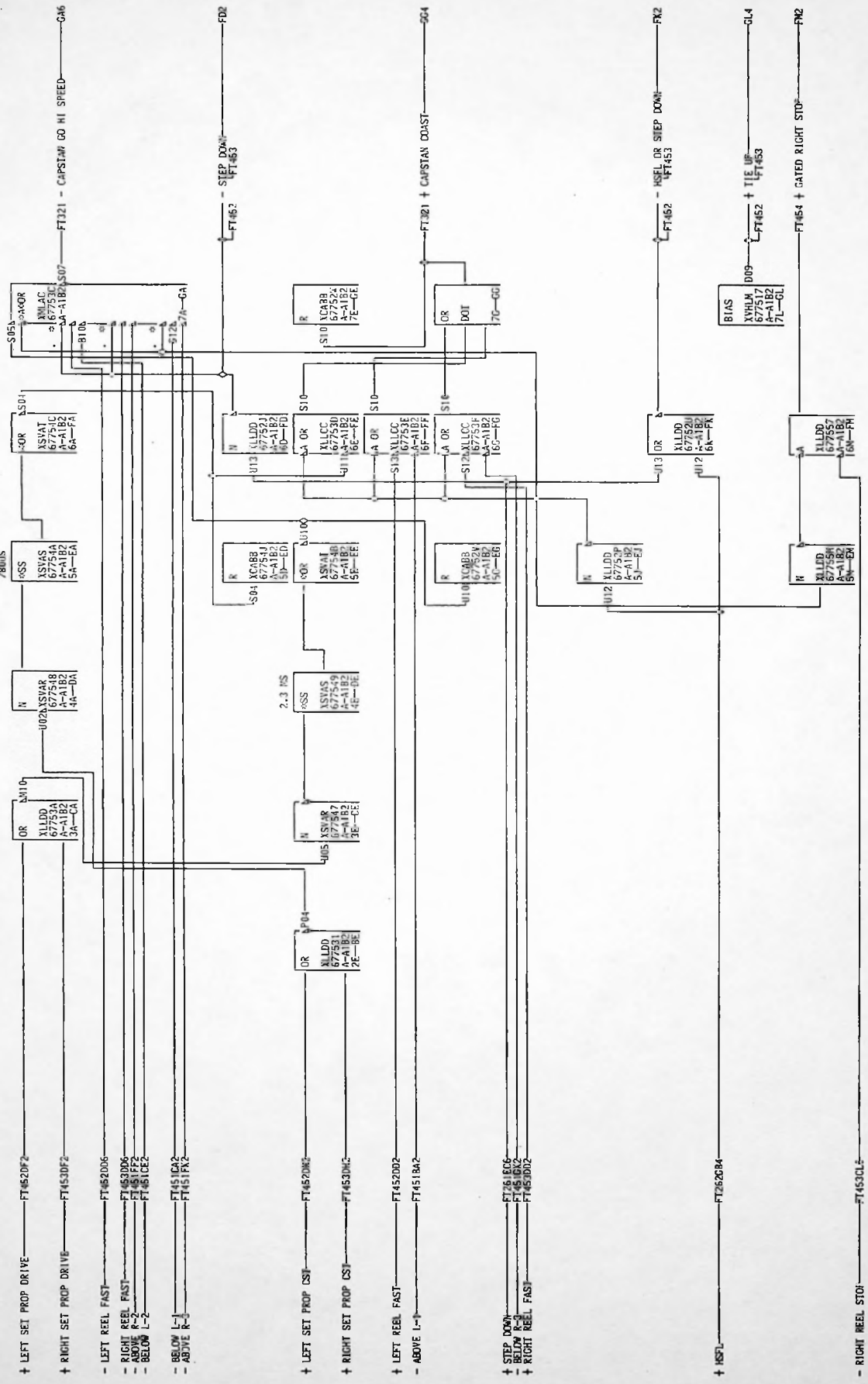




NOTE 1  
 F 112 TO END ON GB4 CCA GDA G44  
 T O4 G4 GB4  
 4 NOTE 2  
 5 SEE PAGE 46106 FOR  
 4 MODEL WIRING

01-21-73 73-8800  
 08-15-73 73-8811  
 08-15-73 73-8811

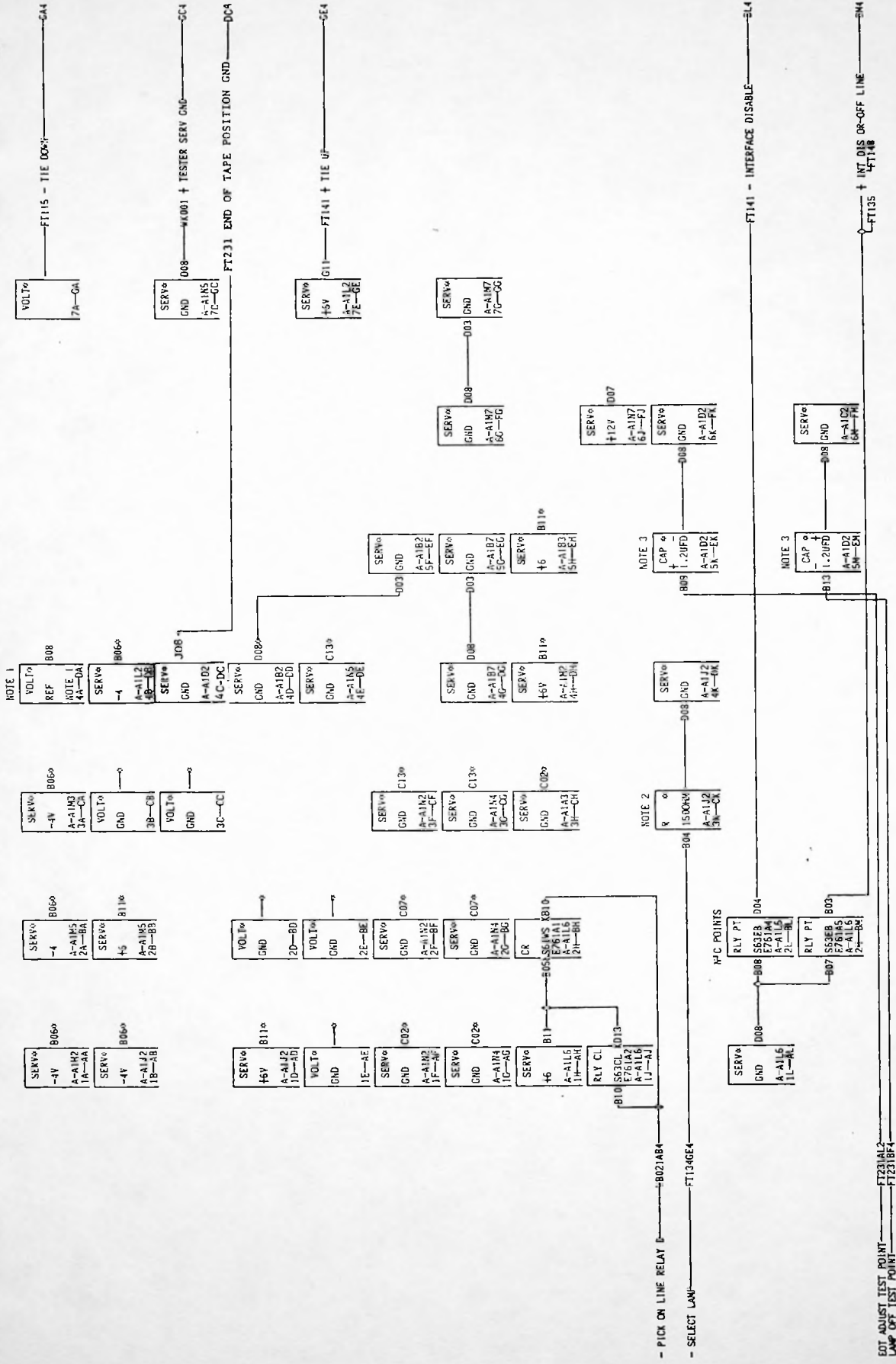
LEFT AND RIGHT REEL DRIVE  
 DATE 07-13-81 MACH. 3420-RP  
 LOG 0120 FRAME 01 5 4  
 P.N. 1848136  
 IBM CORP. CD BLK. CP 000



01-21-73 734800

HI SPEED REWIND CAPSTAN  
CONTROL  
DATE 07-13-81 NACH. 3420-RP  
LDC 0117 FRAME 01 S  
P.N. 1848137  
IBM COMP. CO BLK. 000





NOTE 1 V-REF PRESENT  
 ON A-1120 A-1120 A-1120 A-1120  
 F A-1120 A-1120 A-1120 A-1120  
 S A-1120 A-1120 A-1120 A-1120  
 I A-1120 A-1120 A-1120 A-1120  
 O NOTE 2 P.N. 1847096  
 O NOTE 3 P.N. 1849742  
 000

01-21-73 204800  
 01-27-73 204801  
 06-14-73 204810  
 08-15-73 204811  
 10-10-73 204812  
 12-25-73 204813  
 02-21-80 204820  
 000

DATE 07-10-81 MACH. 3420-EP  
 LOC 2876 FRAME 01 1  
 P.N. 1848138 000  
 IBM CORP. OO BLK. CA

01-21-73 204800  
 01-27-73 204801  
 06-14-73 204810  
 08-15-73 204811  
 10-10-73 204812  
 12-25-73 204813  
 02-21-80 204820  
 000

01-21-73 204800  
 01-27-73 204801  
 06-14-73 204810  
 08-15-73 204811  
 10-10-73 204812  
 12-25-73 204813  
 02-21-80 204820  
 000

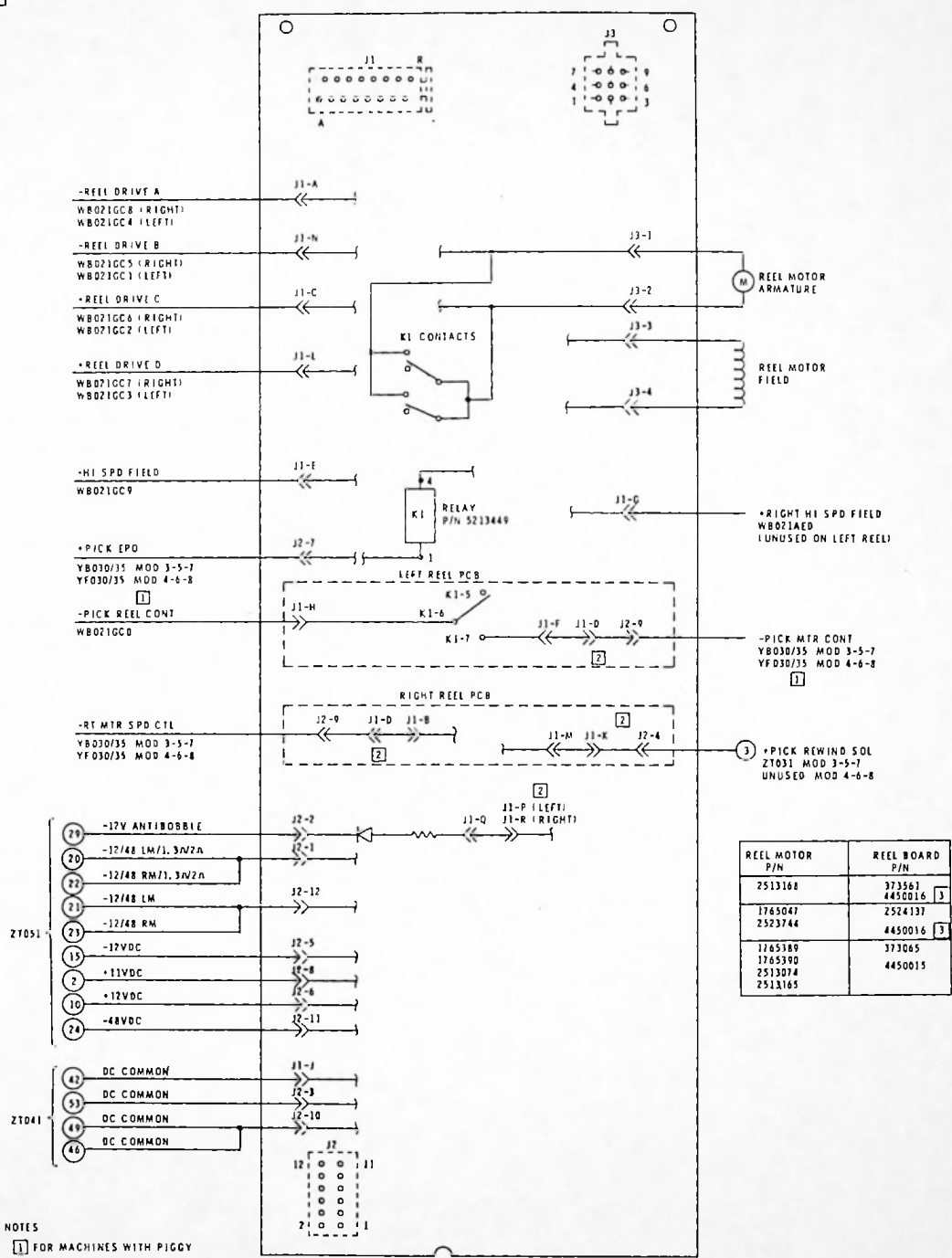
NOTE 1 V-REF PRESENT  
 ON A-1120 A-1120 A-1120 A-1120  
 F A-1120 A-1120 A-1120 A-1120  
 S A-1120 A-1120 A-1120 A-1120  
 I A-1120 A-1120 A-1120 A-1120  
 O NOTE 2 P.N. 1847096  
 O NOTE 3 P.N. 1849742  
 000



4449677 D

PART NO 4449677 LOGIC PG NO RMO01

REEL MOTOR BOARD  
3420 ALL MODELS



REEL MOTOR P/N	REEL BOARD P/N
2513168	373361 4450016 3
1765047	2524137
2523744	4450016 3
1765389	373065
1765390	4450015
2513074	
2513165	

- NOTES
- FOR MACHINES WITH PIGGY BACK SUPPLIES SEE YB040/45 MOD 3-5-7 YB040/45 MOD 4-6-8
  - JUMPERS ARE ASSEMBLED ON PADDLE CARDS
  - 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.

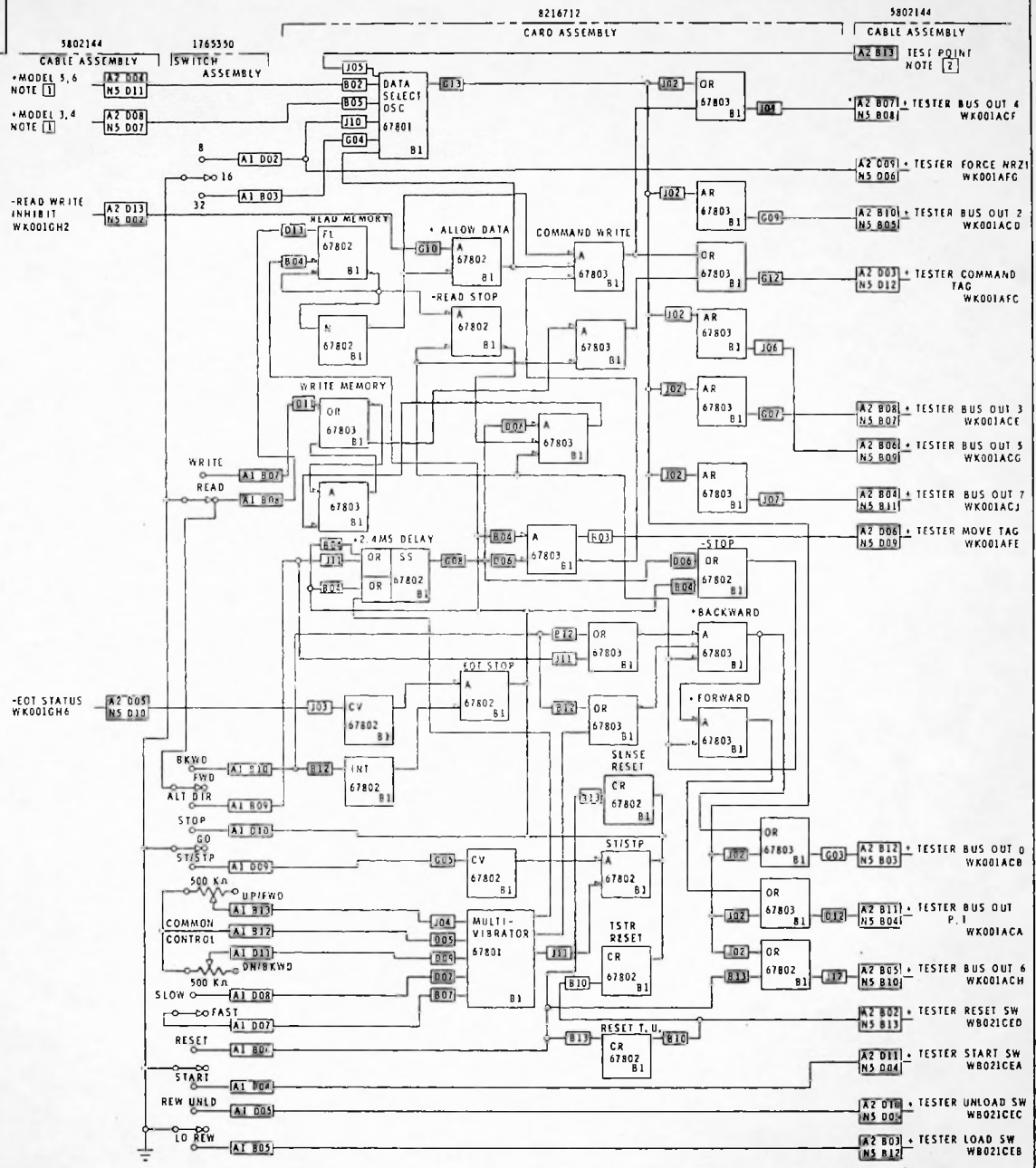
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM REEL			22MAY80	846320		
	MOTOR BOARD			12JUN81	846320C		
DESIGN	GS	7NOV79	GMT   OF				
DETAIL	GDI						
CHECK	AR	19JAN80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPROV							

4449677 D

1766791

T7001



- NOTES
- [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

VOLTAGE WIRING			
GND	+6V	-4V	V-REF
B1 J08	N5 D03	N5 B06	B1 B08
B1 D08	A2 D12	A2 B09	
A1 B02	B1 B11	B1 B06	
A2 D02		B1 G06	
A2 D07			
N5 D08, N5 D13			
N5 D11	MODEL 5, 6 ONLY (F7910 CD4)		
A2 D04	MODEL 3, 4 ONLY (F7910 CD4)		
N5 D07			
A2 D08			

NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
SCHEMATIC 3420 FIELD TESTER	14OCT72	734303F				
CHECKED BY	DATE	APPROVED BY	DATE			
1766791						

T7001

1766791

001 TRACK P READ DATA FT1146 - TRACK P READ DATA A-A1  
 002 TRACK 0 READ DATA FT1146 - TRACK 0 READ DATA A-A2  
 003 TRACK 1 READ DATA FT1146 - TRACK 1 READ DATA A-A3  
 004 TRACK 2 READ DATA FT1146 - TRACK 2 READ DATA A-A4  
 005 TRACK 3 READ DATA FT1146 - TRACK 3 READ DATA A-A5  
 006 TRACK 4 READ DATA FT1146 - TRACK 4 READ DATA A-A6  
 007 TRACK 5 READ DATA FT1146 - TRACK 5 READ DATA A-A7  
 008 TRACK 6 READ DATA FT1146 - TRACK 6 READ DATA A-A8  
 009 TRACK 7 READ DATA FT1146 - TRACK 7 READ DATA A-A9

+ INITIATE ARA FT1820C6  
 - MOVE COMMAND FT1830B6  
 + INITIATE ARA TO 1X001  
 - MOVE COMMAND A-A133 7C-66

+ ARA CHECK 016 FT18181 + ARA CHECK AC2  
 + ARA OK 017 A-A1N3 ID-AC AC6

- ERASE HEAD OK 014 FT1323 - ERASE HEAD OK AF2  
 - WRITE CURRENT OK 015 FT1111 - WRITE CURRENT OK AF6  
 FT1323

WRITE DATA FT133428  
 - WRITE DATA FT133828  
 - WRITE DATA FT1338C2  
 - WRITE DATA FT1338D2  
 - WRITE DATA FT1338E2  
 - WRITE DATA FT1338F2  
 - WRITE DATA FT1338G2  
 - WRITE DATA FT1338J2

+ ERASE STATUS FT181E6  
 + PE SELECT FT1820D6  
 + WRITE STATUS A FT1830G6

W	READ	WRITE
D	DATE	10-20-81
I	LOG	16:48
I		FRANK 01 1
000		P.N. 1848139
GL		18M CORP. DD BLK.

01-21-73 734800  
 04-27-73 734801  
 06-14-73 735810  
 08-21-73 735810  
 10-21-73 735810  
 11-09-81 847861

FT133EA2 01A-A1J1B11 FT181E6  
 01A-A1H1B11 FT133E2  
 01A-A1H1C11 FT133E2  
 01A-A1H1D11 FT133E2  
 01A-A1H1E11 FT133E2  
 01A-A1H1F11 FT133E2  
 01A-A1H1G11 FT133E2  
 01A-A1H1I11 FT133E2  
 01A-A1H1J11 FT133E2  
 01A-A1I1D09 A-A1N3B13  
 01A-A1I1E09 A-A1N3B14  
 01A-A1I1F09 A-A1N3B15  
 01A-A1I1G09 A-A1N3B16  
 01A-A1I1H09 A-A1N3B17  
 01A-A1I1J09 A-A1N3B18  
 01A-A1K1A09 A-A1N3B19  
 01A-A1K1B09 A-A1N3B20  
 01A-A1K1C09 A-A1N3B21  
 01A-A1K1D09 A-A1N3B22

000 18012

-- ZERO THRESH 0	FT183D86	-- ZERO THRESH 0	GA1
-- ZERO THRESH 1	FT183D86	-- ZERO THRESH 1	GA2
-- ZERO THRESH 2	FT183D86	-- ZERO THRESH 2	GA3
-- ZERO THRESH 3	FT183D86	-- ZERO THRESH 3	GA4
-- ZERO THRESH 4	FT183D86	-- ZERO THRESH 4	GA5
-- ZERO THRESH 5	FT183D86	-- ZERO THRESH 5	GA6
-- ZERO THRESH 6	FT183D86	-- ZERO THRESH 6	GA7
-- ZERO THRESH 7	FT183D86	-- ZERO THRESH 7	GA8
-- ZERO THRESH 8	FT183D86	-- ZERO THRESH 8	GA9

-- 6250 SELECT	FT182F86	-- 6250 SELECT	CC2
-- WRITE STATUS	FT183F26	-- WRITE STATUS	CC6

+ 80 PER CENT THRESHOLD	FT181G26	+ 80 PER CENT THRESHOLD	GF2
+ 120 PER CENT THRESHOLD	FT181G26	+ 120 PER CENT THRESHOLD	GF6
+ P.E. AMP SET T.P. NOTE 1	001	+ P.E. AMP SET	GO1

DATE	07-13-81	MACH.	3420-RP
LOC	0119	FRAME	01
P.N.	1848140		000
IBN COMP.	CO	BLK.	CH

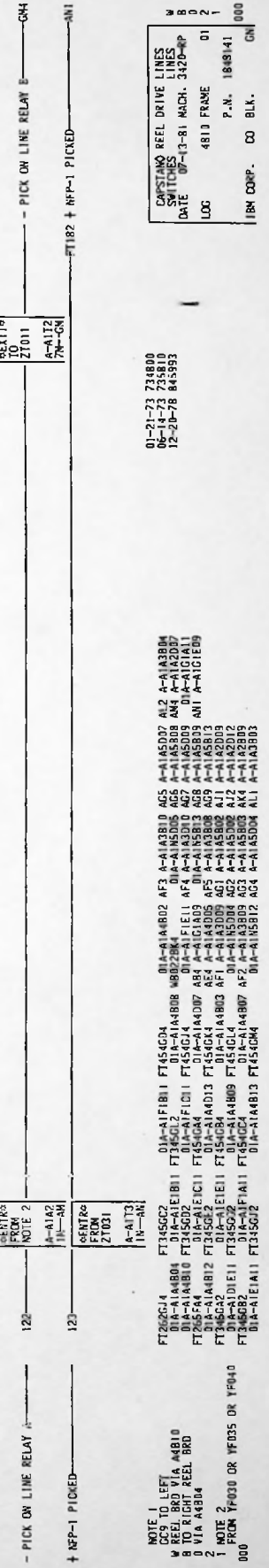
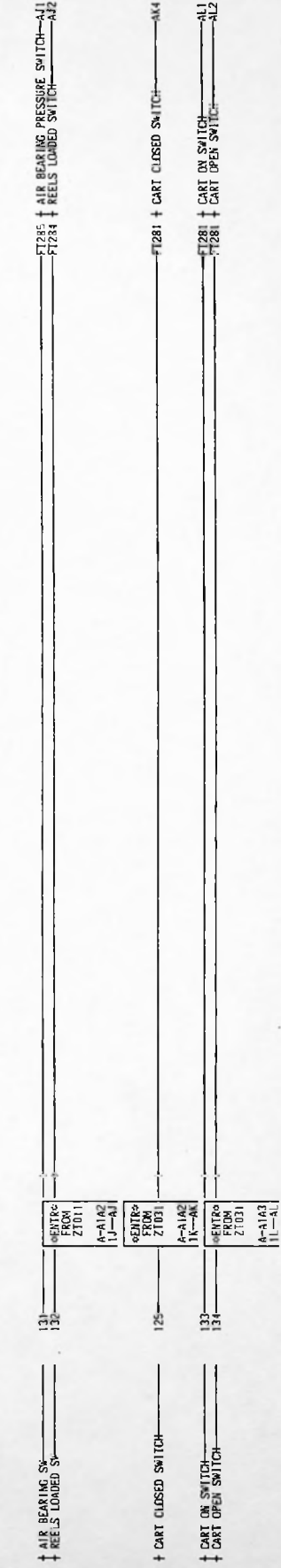
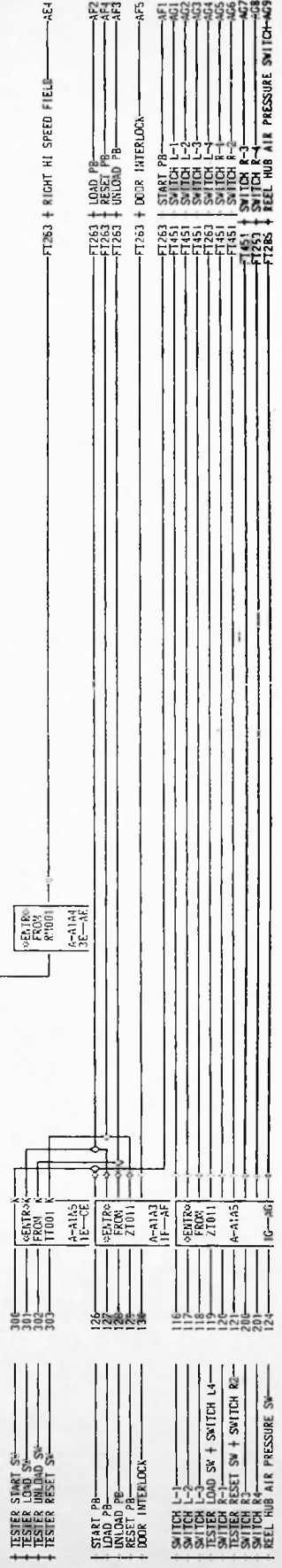
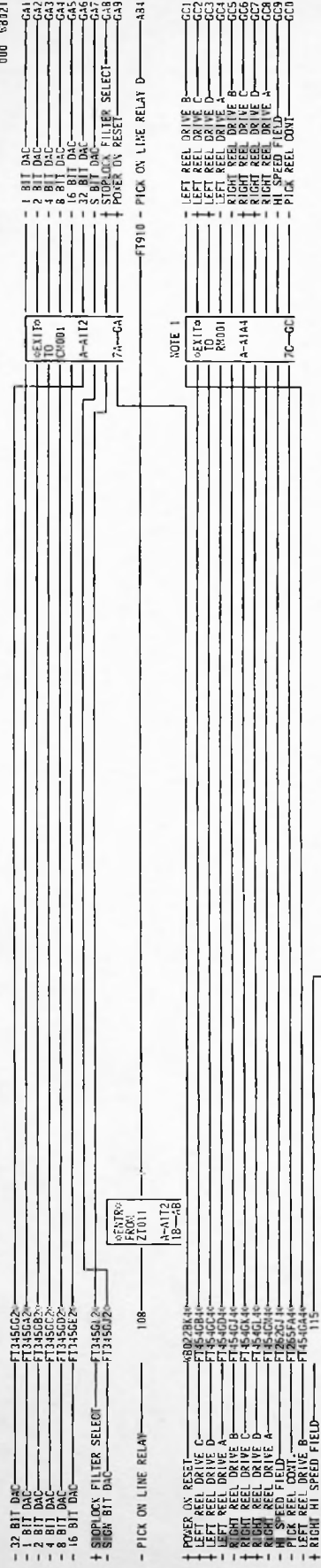
08-21-73 734800  
08-14-73 735810

01A-A1M1D11

001 01A-A1L1E11 FT183E6  
 01A-A1N3B04 FT183E6  
 FT183D2 01A-A1M1B11 FT183E6  
 01A-A1N3D12 FT183D86 01A-A1M1C11  
 FT183E2 01A-A1L1A11 FT183F86  
 01A-A1N3D13 FT183D86 01A-A1L1D11  
 FT183E6 01A-A1L1B11 FT183E6  
 01A-A1M1C09 FT183E6 01A-A1L1C11 FT183F16  
 FT183CF6

NOTE 1  
 JUMPER A1N3B04 TO  
 A1N3D06 TO ADJUST  
 0 FACTORY ADJ.  
 1 ONLY  
 2

000

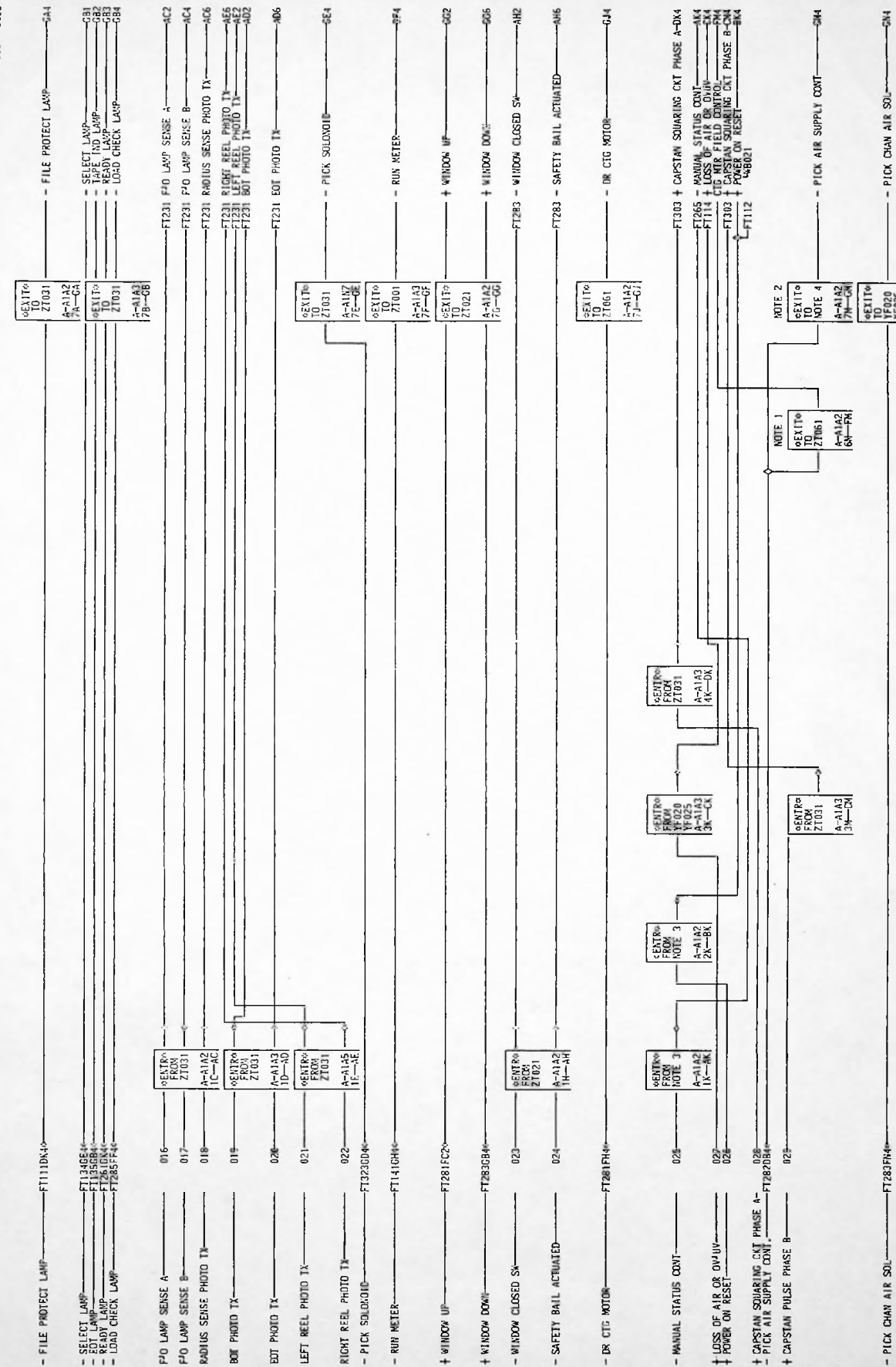


01-21-73 734800  
 12-29-78 842593  
 12-29-78 842593

NOTE 1  
 W COIL TO LEFT  
 R TO RIGHT REEL BRD  
 D VIA A43B4  
 2  
 NOTE 2  
 FROM YF030 OR YF035 OR YF040

NOTE 1  
 W COIL TO LEFT  
 R TO RIGHT REEL BRD  
 D VIA A43B4  
 2  
 NOTE 2  
 FROM YF030 OR YF035 OR YF040

DATE 07-13-81 MACH. 3425-PP  
 LOC 4813 FRAME 01 2  
 P.N. 1849141 000  
 IBM COMP. CO BLK. GN



LAMP BURNED PHOTO SENSE	W
LOSS OF AIR OR O.V.UV	B
DATE 07-13-81	MACH. 3402-RP
LOC 9818	FRAME 01 2
	NOTE 01 2
	P.N. 1848142
	000
	GP

NOTE 1  
LISTS AT A2B10  
NOTE 2  
CKT EXISTS AT A2D05  
2 FROM YF030 OR YF035  
3 NOTE 3  
NOTE 4  
POWER ON RESET  
OR  
000FROM YF010 OR YF015  
OR YF030 OR YF035

01-21-73 754800  
00-1A-73 845993  
01-10-73 845993

FT11DN4  
FT13SE4  
FT13SR4  
FT285F4  
FT231 F/O LAMP SENSE A  
FT231 F/O LAMP SENSE B  
FT231 RADIO SENSE PHOTO TX  
FT231 BOT PHOTO TX  
FT231 EOT PHOTO TX  
FT231 LEFT REEL PHOTO TX  
FT231 RIGHT REEL PHOTO TX  
FT283 PICK SOLNOID  
FT283 RUN METER  
FT283 WINDOW UP  
FT283 WINDOW DOWN  
FT283 WINDOW CLOSED SW  
FT283 SAFETY BALL ACTUATED  
FT281 DR CTG MOTOR  
FT286 MANUAL STATUS CONT  
FT286 LOSS OF AIR OR O.V.UV  
FT286 POWER ON RESET  
FT286 CAPSTAN SQUARING CKT PHASE A  
FT286 CAPSTAN SQUARING CKT PHASE B  
FT286 PICK AIR SUPPLY CONT  
FT286 PICK CHAN AIR SOL

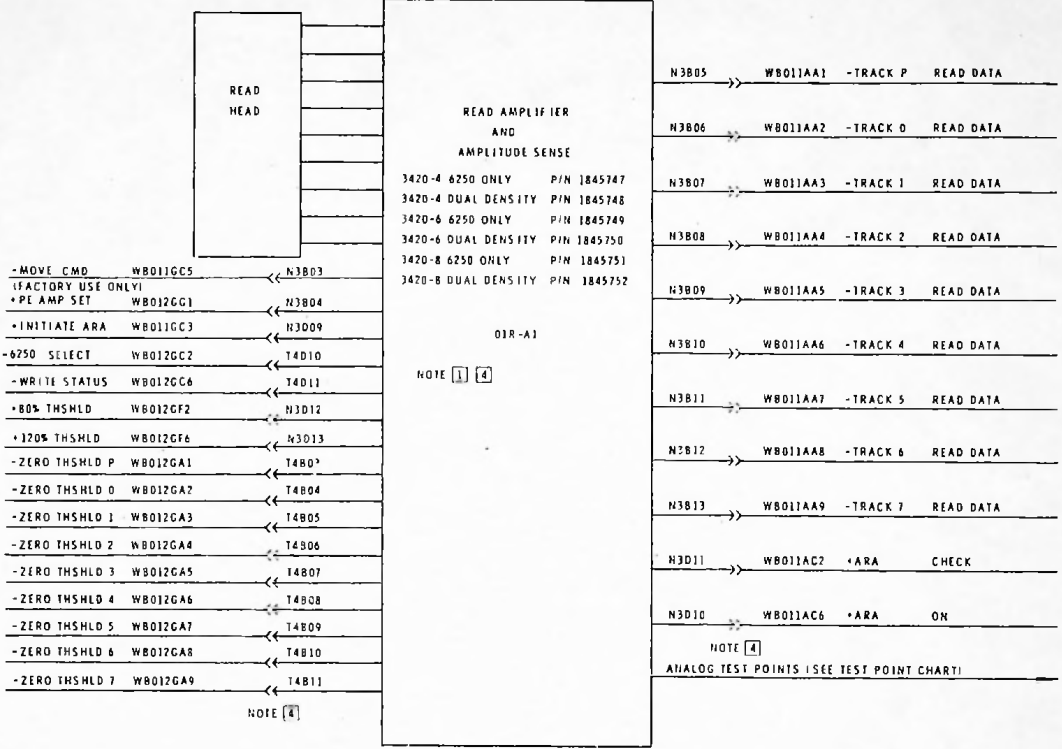
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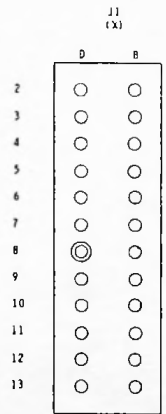
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1766780

PART NO  
1766780  
LOGIC PG NO  
XR001

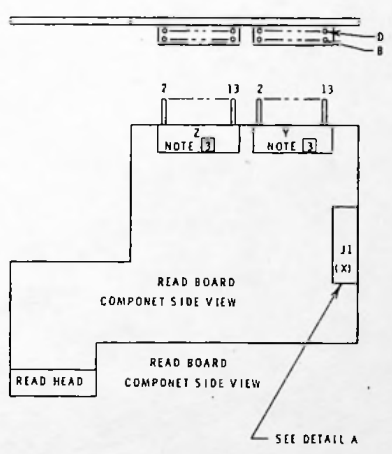


**ANALOG TEST POINTS (DIFFERENTIAL A-B)**

TRK	PHYS POS NOTE [2]	A	B
P	4	J1D02	J1B02
0	7	J1D03	J1B03
1	6	J1D04	J1B04
2	5	J1D05	J1B05
3	3	J1D06	J1B06
4	9	J1D07	J1B07
5	1	J1D09	J1B09
6	8	J1D10	J1B10
7	2	J1D11	J1B11
		J1D08	GND
		J1B08	AMP SENSE REF
	+ARA 1	D12	
	+ARA 2		B12
	+ARA 4	D13	
	+ARA 8		B13



**DETAIL A**  
SCALE: NONE



**NOTES**

- [1] GROUND SERVICE N3D04, N3D06, N3D08, T4D04, T4D06, T4D08
- 4 VOLTS SERVICE N3D02, N3D03, N3D07, T4D02, T4D03, N3D05, T4D07, T4D05
- +6 VOLTS SERVICE T4D12, T4B12, T4B13
- [2] FRONT TO BACK ON HEAD
- [3] N3 ↔ 2 T4 ↔ Y
- [4] T4 AND N3 CABLE SOCKETS ON LOGIC GATE

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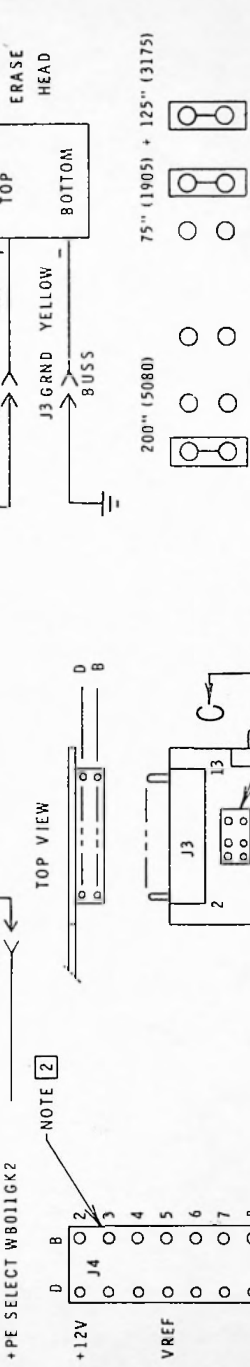
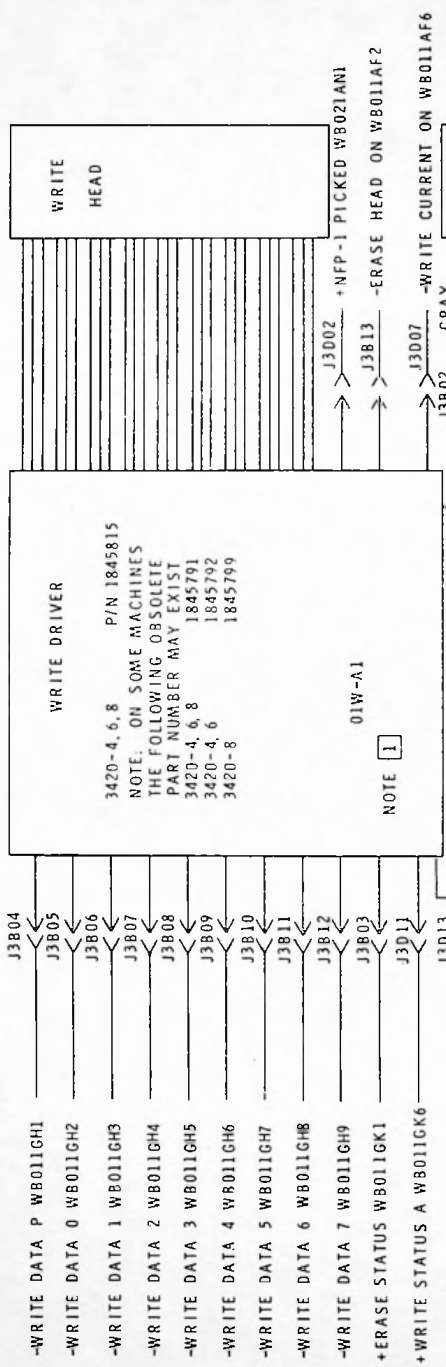
IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	READ CARD REF		140CT72	734703F		
DETAIL	GGK	140CT72	17 FEB 73	734780		
DESIGN	DBK		SHT OF	93JUN73	735627	
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO
APPRO			N-DBK(100CT73)		LOGIC PG NO	
						XR001

1766780



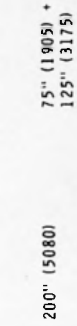
1766781

WRITE DRIVER



DETAIL A

JUMPER CHART  
FOR P/N 1845791 + 1845815



DETAIL B

JUMPER CHART  
FOR P/N 1845792 + 1845799

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626-0021-000

NAME	WRITE DRIVER AND ERASE HEAD DRIVER CARD REF	
DESIGN	DBK	STANDARDS CODE
CHECK		
APPRO	N-DK	10OCT73

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.	XW001
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18/99/L1

21046

# 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	
	60 Hz				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	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

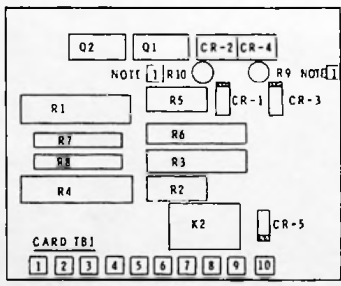
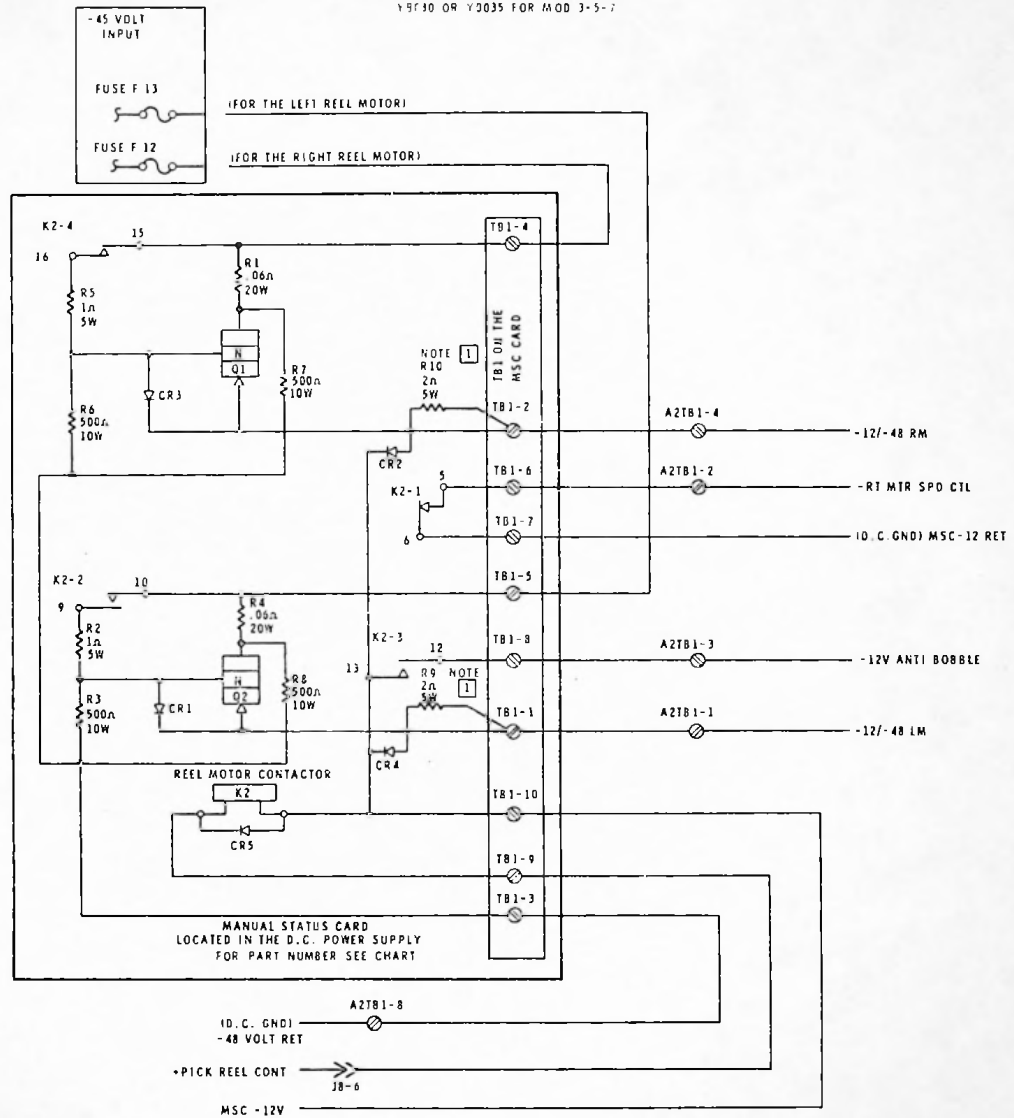
Refer to the chart below to make sure you use the correct Power Supply Logic page.

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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MSC CIRCU REFERENCE 3420 50-60HZ PIGGYBACK SUPPLIES  
 ALSO SEE LOGIC PAGE YF036 OR YF035 FOR MOD 4-6-8  
 YF030 OR YD035 FOR MOD 3-5-7



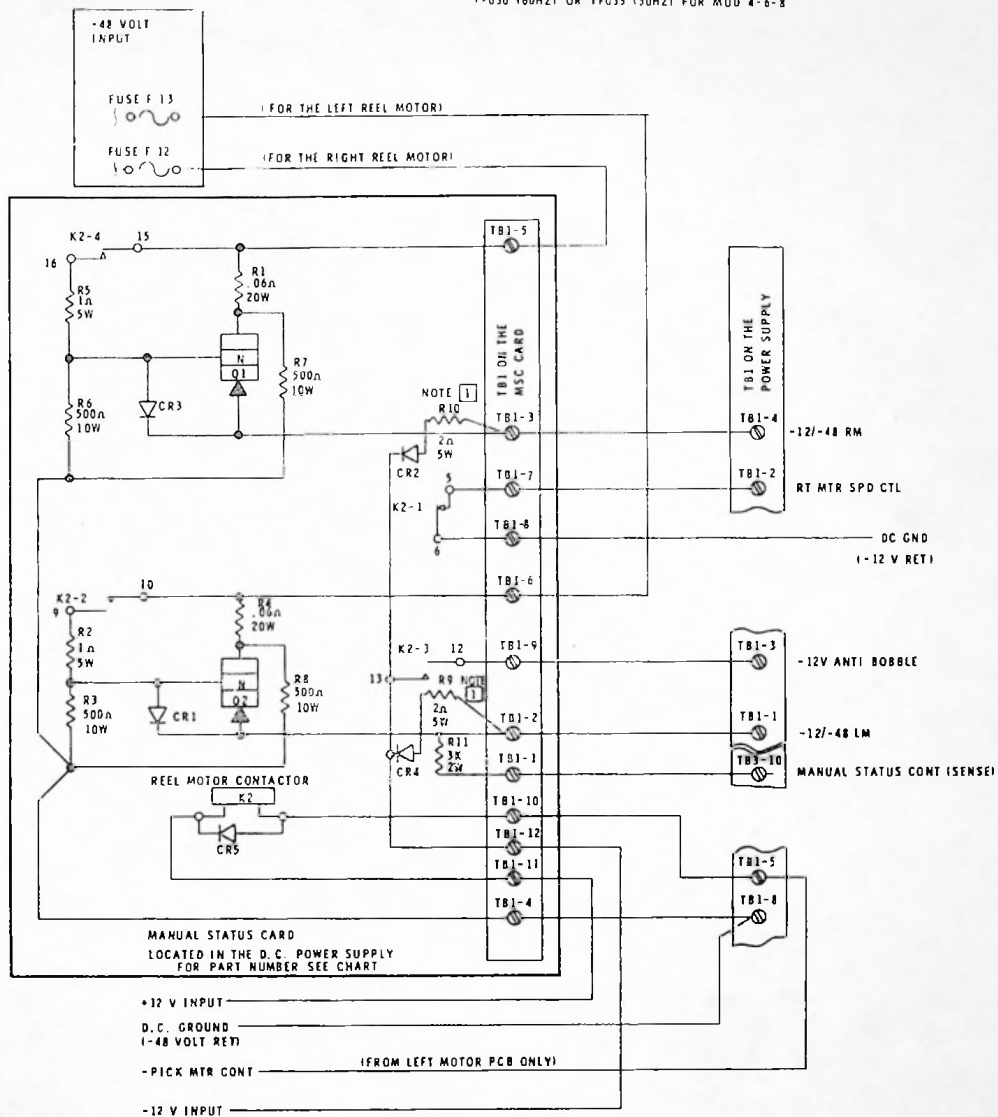
POWER SUPPLY PART NUMBER	MSC PART NUMBER
1766045 1767849 1767850 2515367 2515410 2524644	373071
1766046 1767917 1767918 2515413 2515421 2524645	373074

NOTE 1 RESISTOR R9 AND R10 ARE NOT PRESENT ON PART NUMBER 373071

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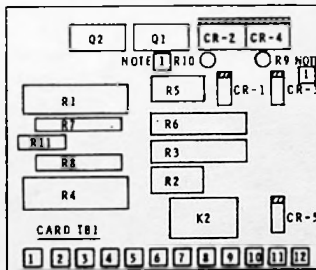
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEMS DIAGRAM MANUAL			20FEB73	734780		
STATUS CARD (MSC)				10FEB77	449067		
DESIGN	DBX	BY OF		22MAY80	846320		
DETAIL	GWS	20FEB73					
CHECK							
APPRO							
CLASSIFICATION	MUST CONFORM TO ENG SPEC			DEVELOPMENT NO		LOGIC PG NO	
	N-DK 6FFB73					YC021	

MSC CARD (REFI 3420- 50 - 60WZ  
 ALSO SEE LOGIC PAGE YB030 (60HZ) OR YB035 (50HZ) FOR MOD 3-5-7  
 YF030 (60HZ) OR YF035 (50HZ) FOR MOD 4-6-8



POWER SUPPLY PART NUMBER	MSC PART NUMBER
1767835 1767836 2522839 2522840	2523105
1767833 1767834 2522837 2522838	2524604

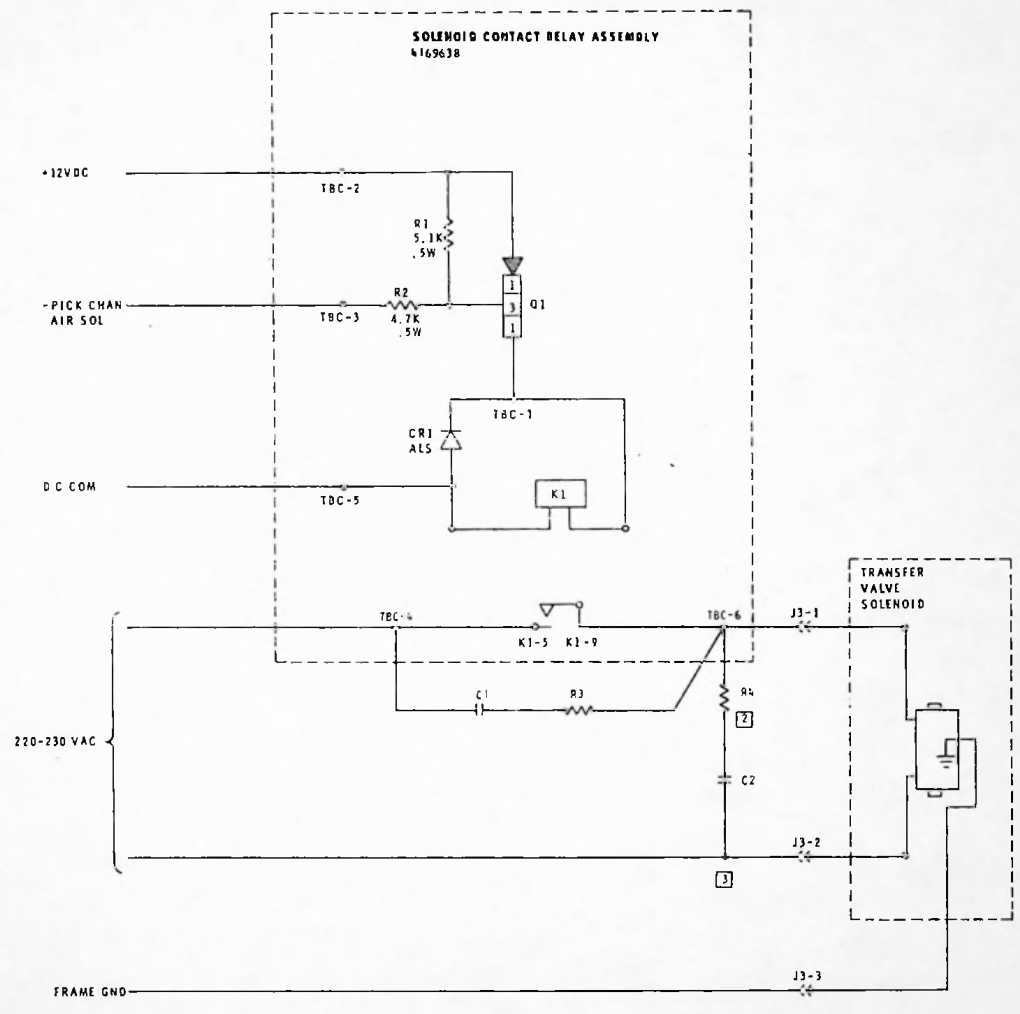
COMPONENT LAYOUT



NOTE

1 RESISTOR R9 AND R10 NOT PRESENT  
 ON PART NUMBER 2524604

NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
REFERENCE DIAGRAM	31OCT70	733501 C	22MAY80	846320		
MANUAL STATUS CARD (MSC)	7JAN71	733501M				
MODEL	17MAY71	733520				
DETAIL	DDA 31OCT70		11AUG71	733966		
OWNER			4NOV72	734749		
APPRO	CHECK					



- 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

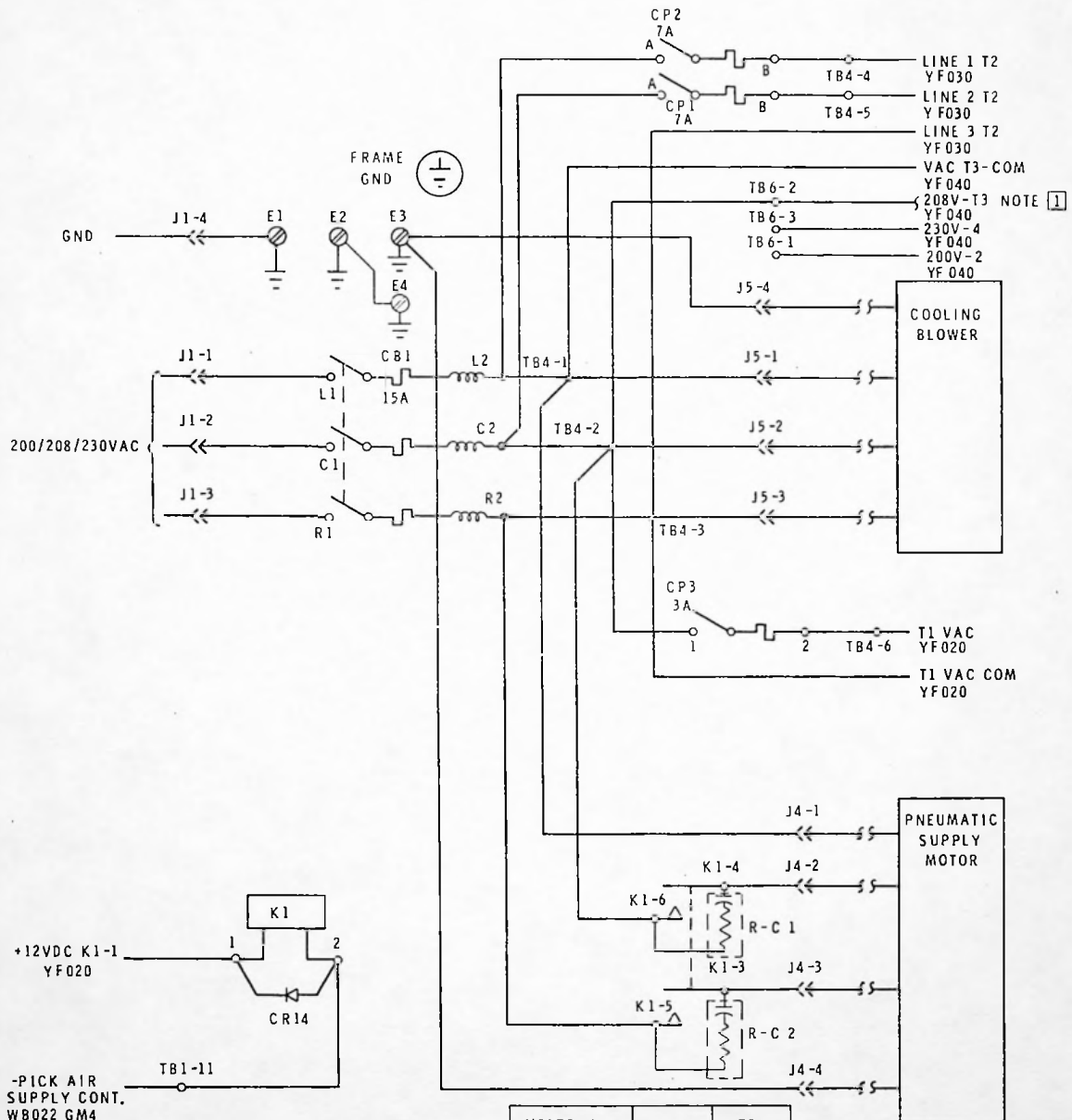
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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	TRANSFER VALVE SOLENOID DRIVE	14OCT72	734303F	31MAR76	443022
DESIGN	DK 7JUL73	19JUN73	735624		
DETAIL	VLG 14OCT72	19JUN74	736683A		
CHECK	WDCY72	16MAY75	643870		
APPRO	N-DX DAUG12	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
				LOGIC PG NO 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 $\phi$ - $\phi$	FROM	TO
200	TB 4-2	TB 6-1
208	TB 4-2	TB 6-2
230	TB 4-2	TB 6-3

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626-0021-000

IBM		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM		28 JUN 72	734305B			X PRINT TO ENG. SPEC. NO.	1767851
AC 60HZ		12 SEP 72	734305C				
DESIGN ECH	STANDARDS CODE	4 MAY 73	734499				
DETAIL IWS		22 MAY 80	846320				
CHECK							
APPRO N-ER	3 FEB 73						YF 010

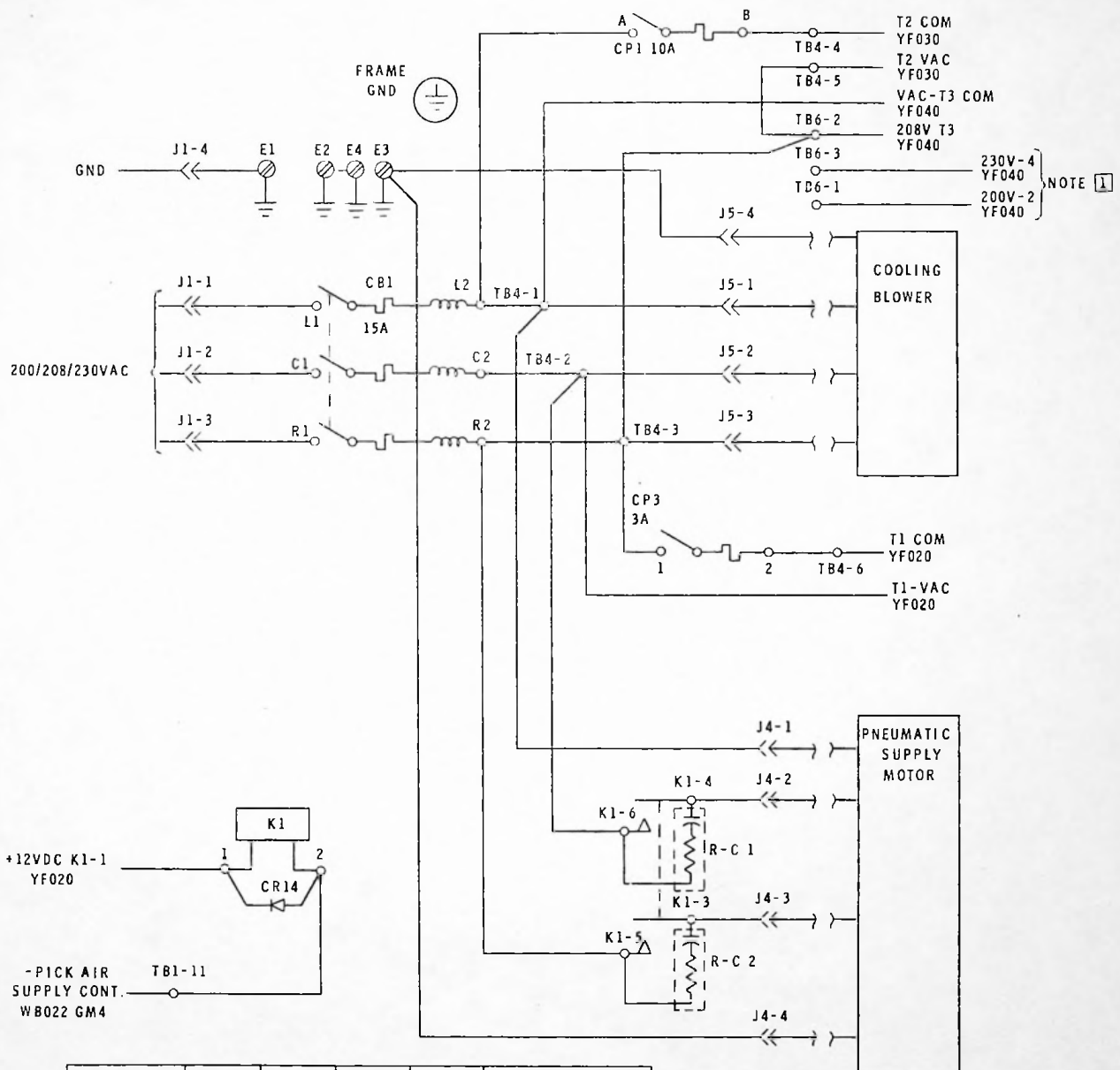
01046

1767919

SYMBOLS  
CODI

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		MAY 73	734499					
AC 60HZ		12NOV73	734958					
DESIGNER	FCH (MART)							
DRAWN	D (MAY)	22MAY73	846320					
APP'D BY	ERH (MAY)							

1767919

C

01016

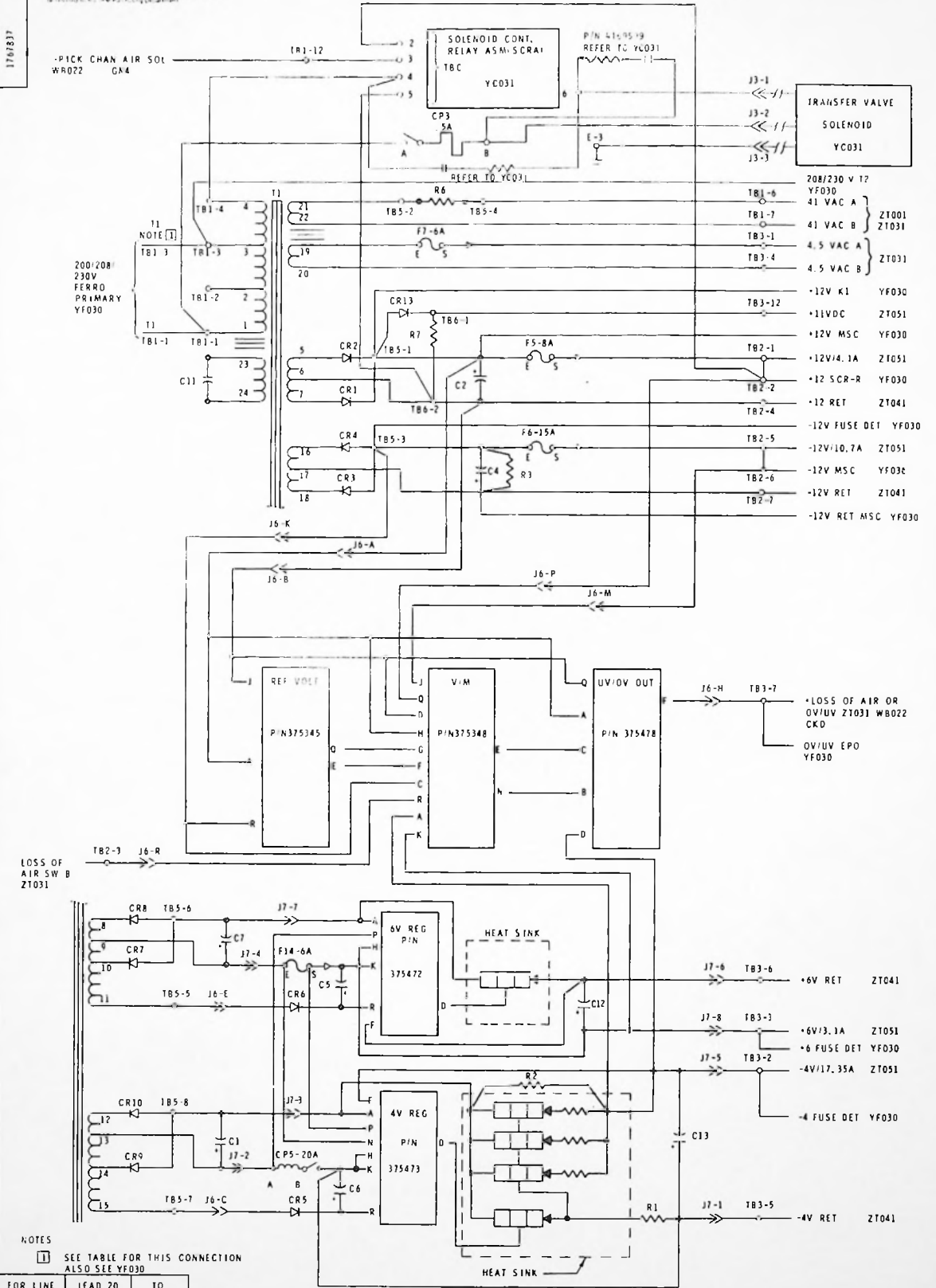


1767837

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

PART NO 1767837 LOGIC PG NO YF02C



NOTES  
 1 SEE TABLE FOR THIS CONNECTION ALSO SEE YF03D

FOR LINE VOLTAGE	LEAD 20 FROM YF03D	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 YF03D
200	TB1-3	TB7-2
208	TB1-3	TB7-2
230	TB1-4	TB7-2

2 SIMILAR TO PART NUMBER 2523061

IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	DRIVE D.C. 60HZ	15MAY72	734305A	25SEP73	734487
DESIGN	ECH	31-M73	734491	23 MAR 74	449022
DETAIL	RMF	21MAR73	734497	22MAY80	846320
CHECK	WLC	23MAY72			
APPRO	ER	MAR73			
CLASSIFICATION		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
LOGIC PG NO		YF02C			

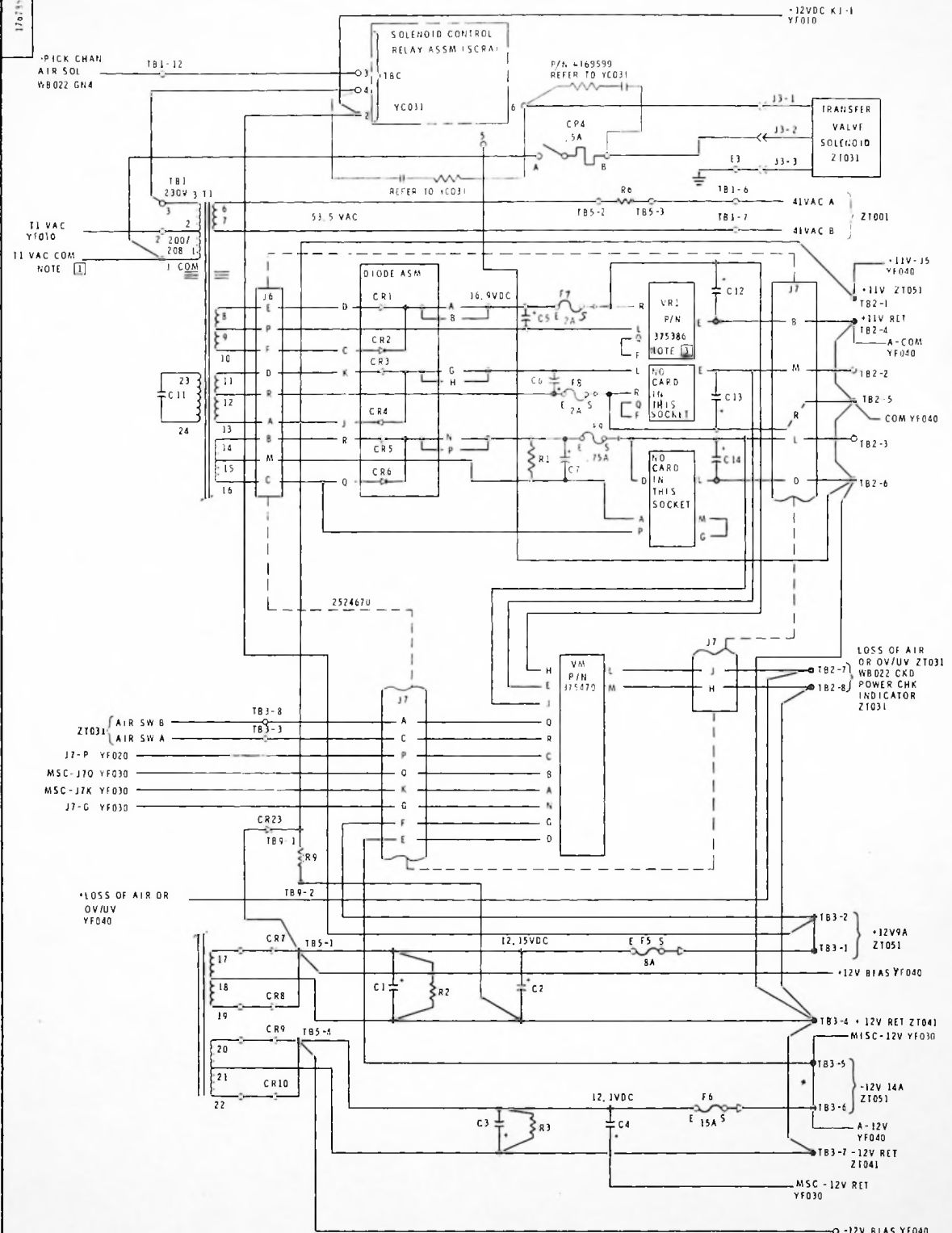
1767837

D  
1761552

DC SUPPLY 60HZ  
3420-MOD 004, 006 PIGGYBACK  
FOR POWER SUPPLY  
PART NUMBER 1761550

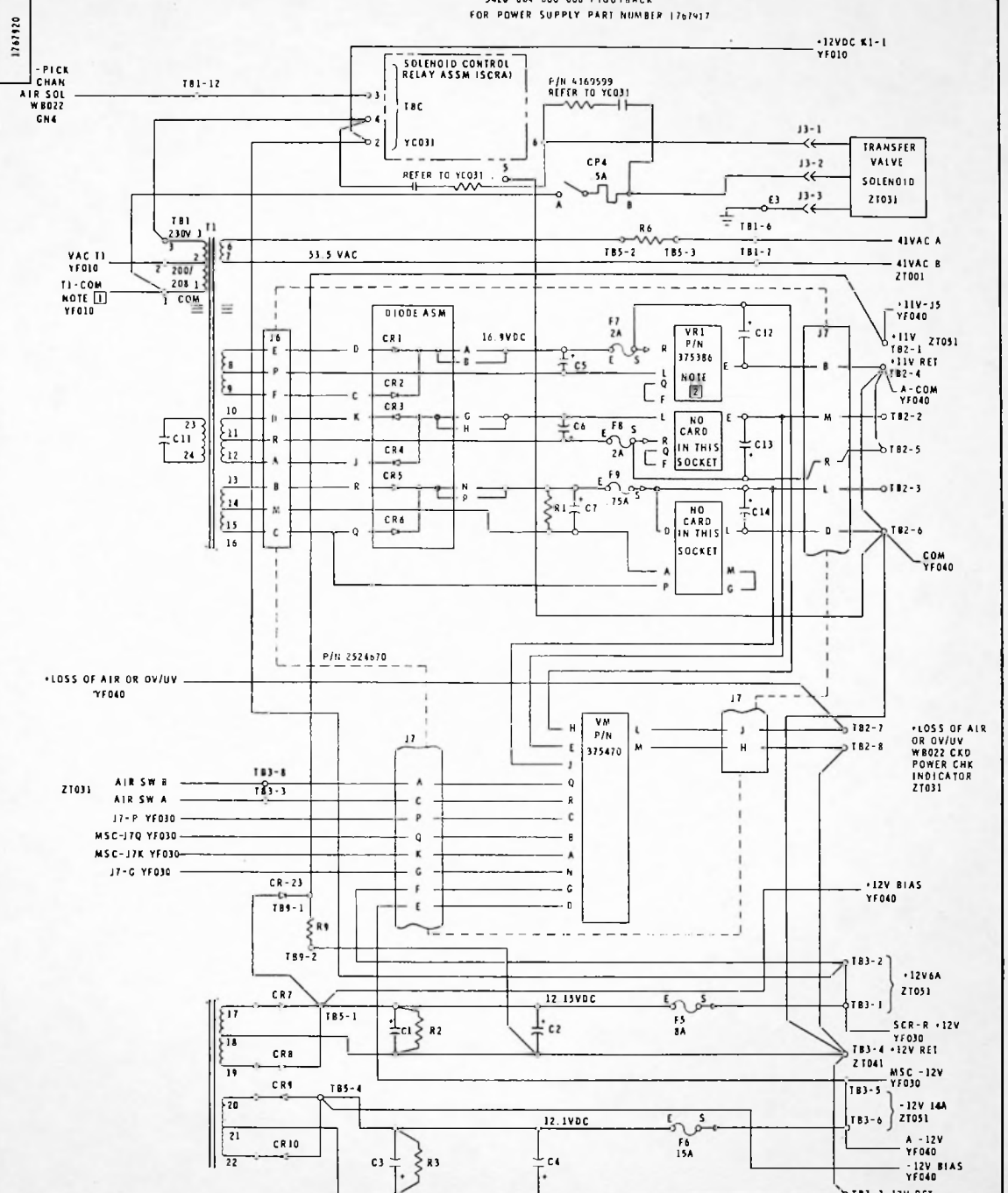
PART NO  
1761552

LOGIC PG NO  
YF020



NOTES  
 1 LOGIC SHOWS CONNECTION FOR 200 OR 208 VAC. FOR 230VAC LEAD 9 FROM TB4-6 IS TO ATTACH TO TB4-6 IS TO ATTACH TO TB1-3  
 2 SIMILAR TO PART NUMBER 2515533  
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VOLTAGE	MEASURED ACROSS	NAME	SYSTEM DIAGRAM	DATE	CHANGE NO	DATE	CHANGE NO
16, 9VDC ± 1%	C5	DESIGN	ECH	SHT	OF	24 JUN 72	7343058
12, 15VDC ± 6%	C1, C2	DETAIL	RFAL	24 JUN 72		12 SEP 72	734305C
12, 1VDC ± 7%	C3, C4	CHECK				4 MAY 73	734499
53, 5 VAC ± 15%	TB5-2 TO TB1-7	APPROV				28 APR 76	449022



- NOTES
- ① 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
  - ② OLD CARD PART NUMBER 374546-USE AS IS
  - ③ SIMILAR TO PART NUMBER 2515558

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

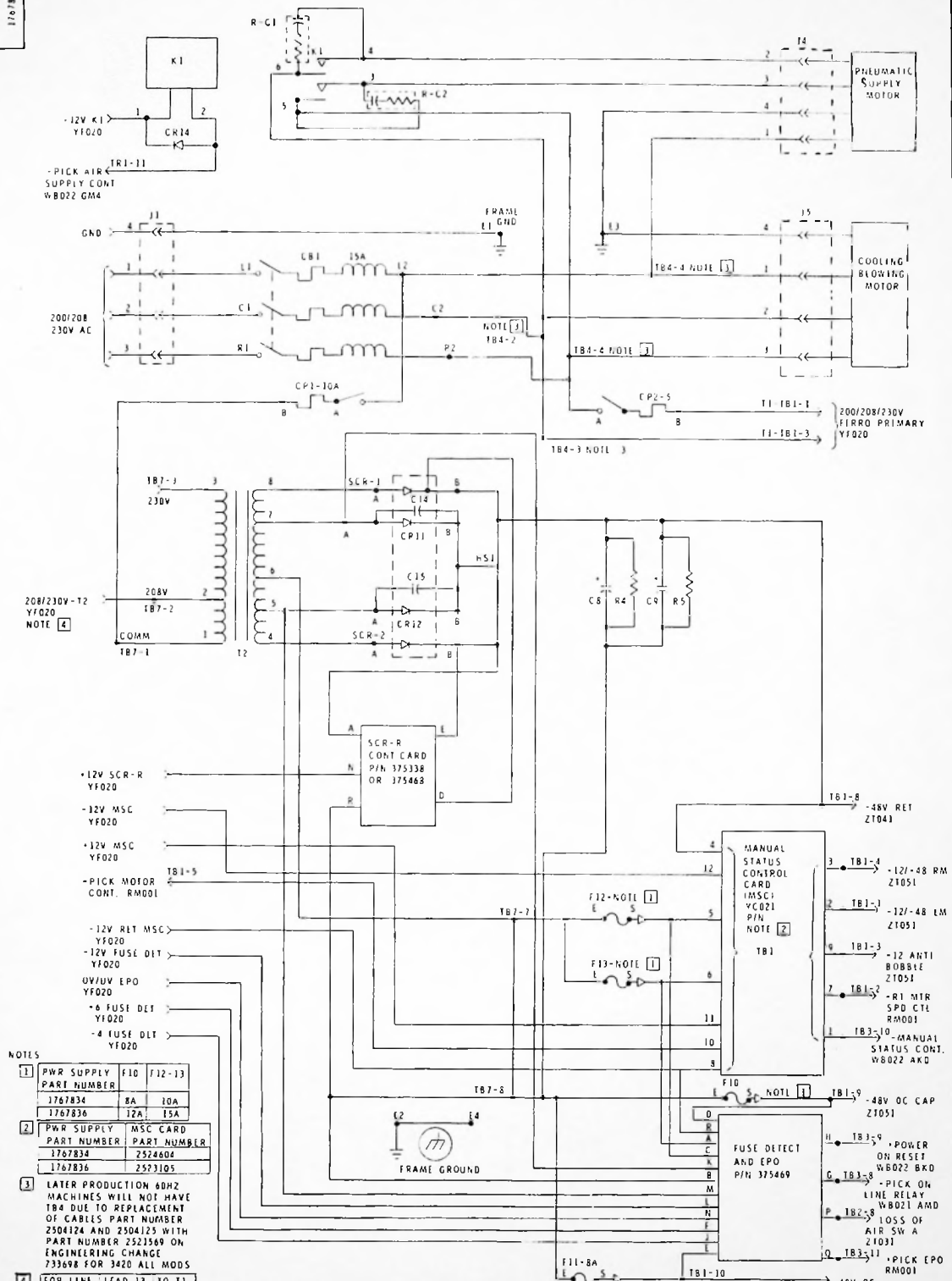
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME: SYSTEM DIAGRAM DC 60HZ				08MAY73	734419		
DESIGN: ECH IMAR73				23MAR76	449022		
DETAIL: LD BMAY73				22MAY80	846320		
CHECK		CLASSIFICATION	MUST CONFORM TO END SPEC	DEVELOPMENT NO		LOGIC PG NO	
APPRO		N-ECH IMAR73				YF020	

D  
1767838

PART NO 1767838 LOGIC PG NO YF030

AC DISTRIBUTION AND 48V SUP 60HZ  
FOR POWER SUPPLY PART NUMBER 1767834 OR 1767836



NOTES

- 1 PWR SUPPLY FID F12-13  
PART NUMBER 1767834 8A 10A  
1767836 12A 15A
- 2 PWR SUPPLY MSC CARD  
PART NUMBER 1767834 2524604  
1767836 2527105
- 3 LATER PRODUCTION 60HZ MACHINES WILL NOT HAVE TB4 DUE TO REPLACEMENT OF CABLES PART NUMBER 2504124 AND 2504125 WITH PART NUMBER 2522569 ON ENGINEERING CHANGE 733698 FOR 3420 ALL MODES
- 4 FOR LINE LEAD 13 TO T1 VOLTAGE FROM T2 YF020  
200 TB7-2 TB1-2  
208 TB7-2 TB1-3  
230 TB7-3 TB1-4
- 5 SIMILAR TO PART NUMBER 2523040

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IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	DRIVE AC AND -48 60 HZ		18MAY72	734305A	25SEP73	734487
DESIGN	ECH	WHY? OF?	12SEP72	734305C	10FEB77	449067
DETAIL	JG	22MAY80	8JAN73	734497	13FEB79	845993
CHECK			21MAR73	734497	22MAY80	846320
APPRO						
	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO		LOGIC PG NO	
	ER	7MAR73			YF030	

12678

D

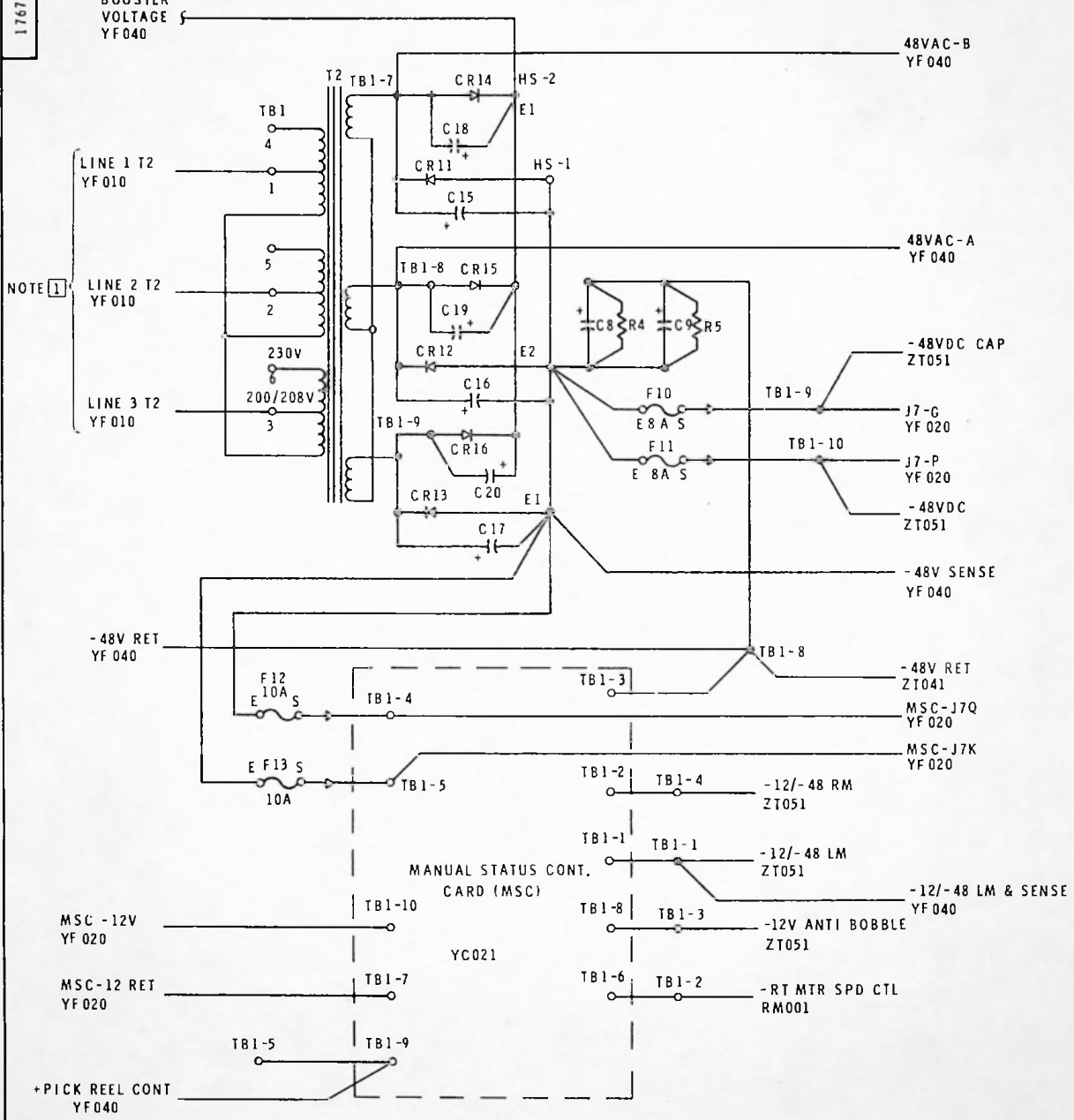
48V SUPPLY 60HZ PIGGYBACK

1767853

YF 030

3420-MOD 004, 006 WITH POWER SUPPLY P/N 1767650

1767853



NOTE 1

LINE 1 T2 YF010  
 LINE 2 T2 YF010  
 LINE 3 T2 YF010

-48V RET YF040

MSC -12V YF020

MSC-12 RET YF020

+PICK REEL CONT YF040

MANUAL STATUS CONT. CARD (MSC) YC021

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

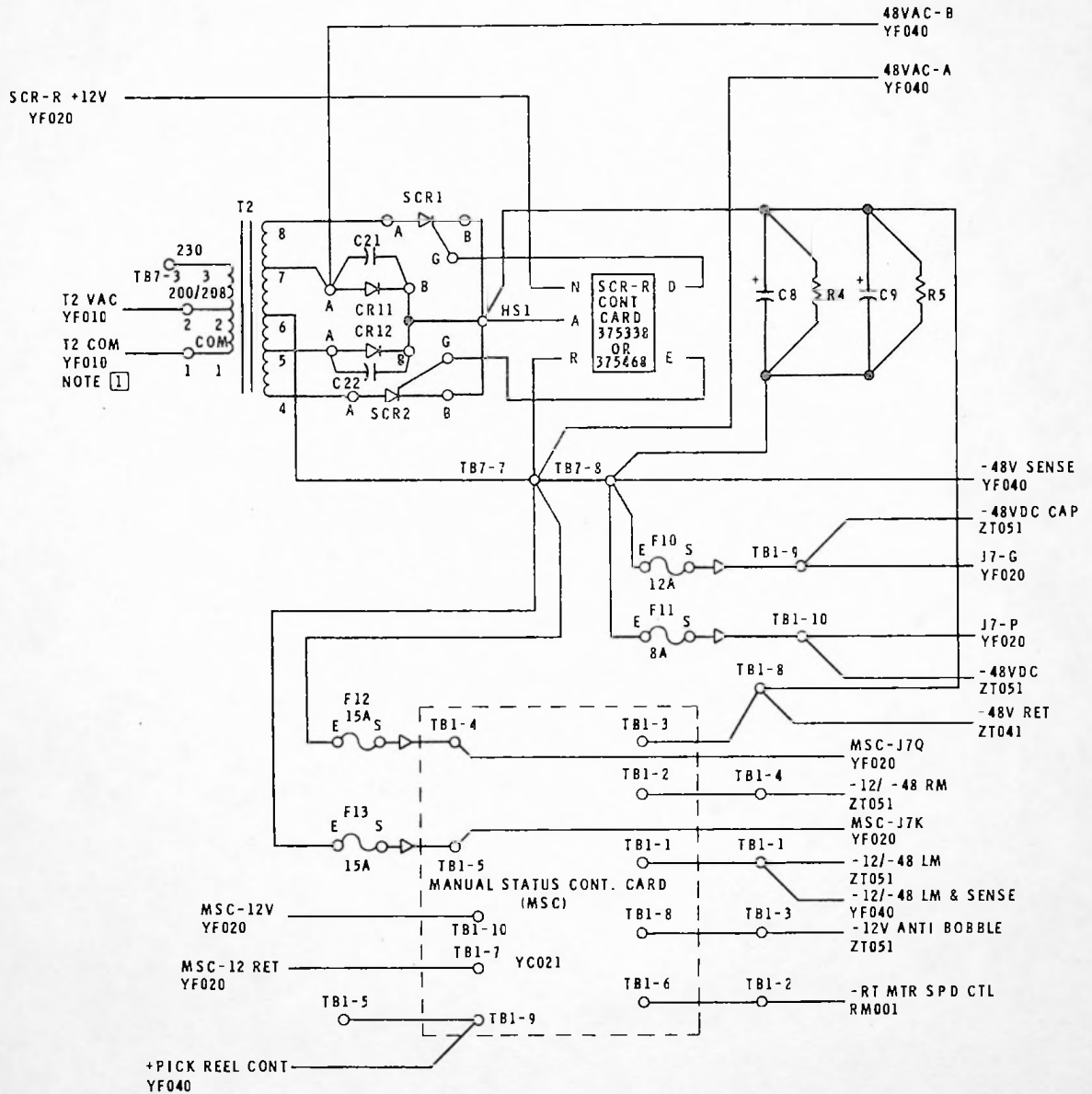
IBM		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM		28 JUN72	734305B			X PRINT TO ENG. SPEC. NO.	1767853
48V 60HZ		4MAY73	734499				
DESIGN ECH	STANDARDS CODE	10FEB77	449067				
DETAIL JWS 28JUN72		22MAY80	846320				
CHECK							
APPROV N-JM21MAR73							YF 030

626-0021-000

1767921

1767921 YF030

48V SUPPLY 60HZ PIGGYBACK  
 342U 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

IBM		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	7MAY73	734499			NOTE X PRINT TO ENG. SPEC. NO.	1767921
DESIGN	ECH 1MAR73	12NOV73	734958				
DETAIL	LD 7MAY73	10FEB77	449067				
CHECK		22MAY80	846320				
APPRO	N-EH 1MAR73						
							YF030

D  
176284

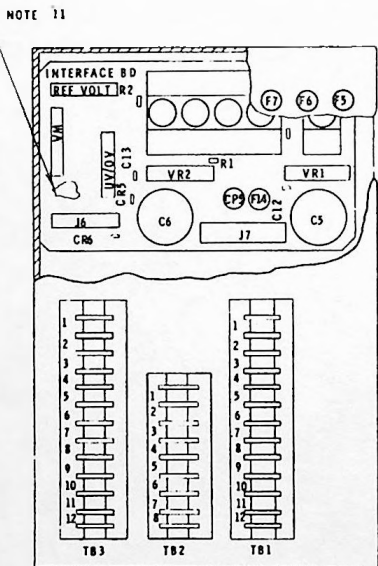
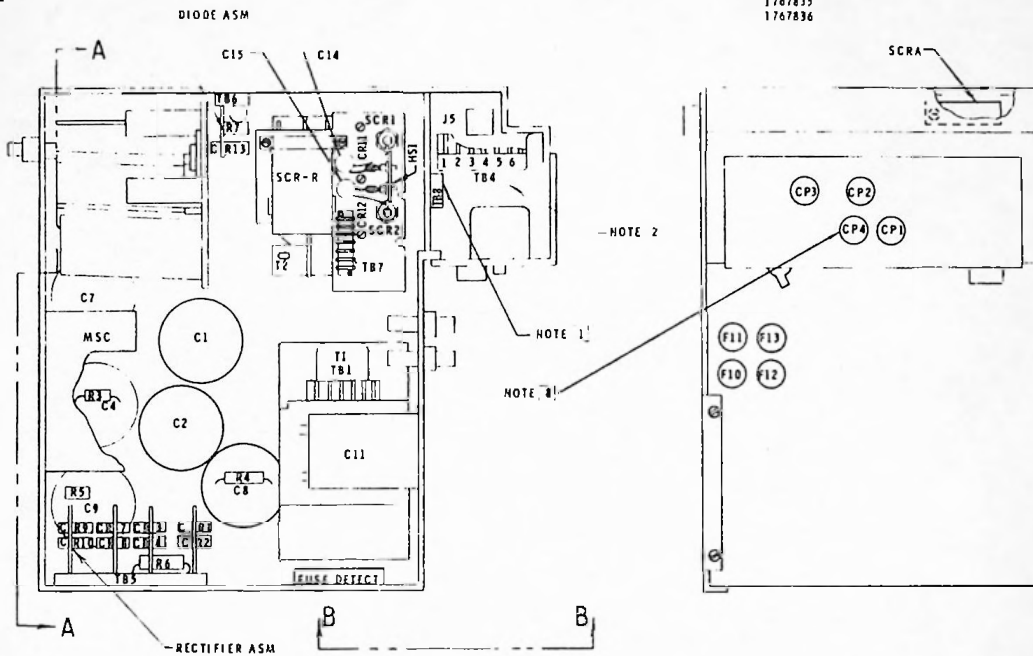
# REFERENCE DRAWING

PART NO  
1767841

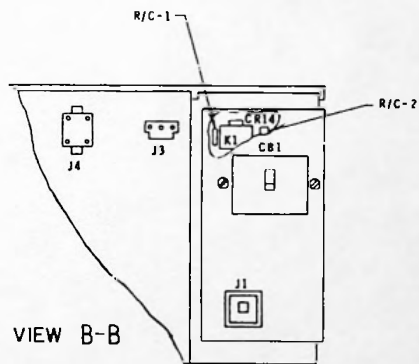
LOGIC PG NO  
YF036

SHEET 1 OF 2

MOD 4 0.8 - 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	8NOV73	734538	22MAY80	846320
DESIGN	FHC	BHT J OP 2	RED	18JAN74	736932
DETAIL	PRB	18JAN74		19JUN74	736683A
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO		N-VF	1JAN74		YF036

176284

D



NOTES

- 1 50 HZ ONLY
- 2 LATER PRODUCTION 60HZ MACHINES WILL NOT HAVE T84 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 (20uF) 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 & 50HZ PART NUMBER 1767833, MOD4 & 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	CAPACITOR, 120KpF, 15V
208222	C5, C6	CAPACITOR, 5KpF, 55V
8493425	C7	CAPACITOR, 93KpF, 15V
5214233	C8, C9	CAPACITOR, 20KpF, 75V
5252219	C11	CAPACITOR, 40pF, 330VAC
5252842	C11	CAPACITOR, 10uF, 600VAC
492566	C12, C13	CAPACITOR, 100pF, 10V
2524653	C14, C15	CAP ASSEMBLY AND 10uF PARALLEL
631769	C7, C1, C2, C4, C8, C9	CAPACITOR SHIELD
4116985	CB1	50HZ CIRCUIT BREAKER, 16AMP
5719454	CB1	60HZ CIRCUIT BREAKER, 15AMP
2192539	CL1	CABLE CLIP
2218599	CP1	CIRCUIT PROTECTOR, 10AMP
5180419	CP2	CIRCUIT PROTECTOR, 5AMP
2513489	CP3	CIRCUIT PROTECTOR, 5 AMP
2513475	CP4 NOTE 18	CIRCUIT PROTECTOR, 3AMP
2304267	CP5	CIRCUIT PROTECTOR, 20AMP
2523072	J1	CONNECTOR, MALE
1186116	J2	CONNECTOR, 3 PIN
2501405	J4, J5	CONNECTOR, 4 PIN
598353	CR1, CR2, CR3	DIODE, 10AMP
598355	CR4, CR7, CR8, CR9	DIODE, 10AMP
5323537	CR5, CR6	DIODE, 2AMP
595258	CR9, CR10	DIODE, 30AMP
127324	CR11, CR12	DIODE, 30AMP
2180917	CR14	DIODE AM ASM
2523103	DIODE ASM	COMPLETE ASM
433557	F5, F11	FUSE, 8 AMP, MEDIUM TIME LAG
598676	F6	FUSE, 15 AMP, MEDIUM TIME LAG
303679	F7, F14	FUSE, 6 AMP, INSTANTANEOUS
433557	F10 NOTE 18 113	FUSE, 8 AMP, MEDIUM TIME LAG
1767881	F10 NOTE 114 115	FUSE, 12 AMP, MEDIUM TIME LAG
511063	F12, F13 NOTE 18 113	FUSE, 10 AMP, MEDIUM TIME LAG
598826	F12, F13 NOTE 114 115	FUSE, 15 AMP, MEDIUM TIME LAG
375469	FUSE DETECT	FUSE DETECT AND EPD
2513485	F5, F6	FUSE HOLDER
2523099	F7	FUSE HOLDER
2523063	F14	FUSE HOLDER
2523883	SCR1, SCR2	RECTIFIER, 50A SEMICONDUCTOR CONTROL
1767846	RECTIFIER ASM	COMPLETE ASM
529091	K1	RELAY
3214702	MSC	RELAY
317004	R1	RESISTOR 200A, 5W
1767887	R2	RESISTOR, PRINTED
501565	R3	RESISTOR ASM, 50A, 10W
5741384	R4, R5	RESISTOR ASM, 100A, 20W
2513470	R6	RESISTOR ASM, 200A, 2W
472588	R7	RESISTOR, 150, 25W
2524683	R7, C-1-2	RESISTOR-CAPACITOR ASM(47A, 22uF)
2523077	T1 50HZ	TRANSFORMER, FERRO
1754217	T1 60HZ NOTE 10	TRANSFORMER, FERRO
2523079	T2 50HZ NOTE 18	TRANSFORMER
2523078	T2 60 HZ NOTE 113	TRANSFORMER
4118222	T2 50 HZ NOTE 114	TRANSFORMER
2519845	T2 60 HZ NOTE 115	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 13	SCR REGULATOR CARD
2524604	MSC NOTE 8 113	MANUAL STATUS CONTROL CARD
2523105	MSC NOTE 114 115	MANUAL STATUS CONTROL CARD
2524619	SCBA	PNEU SOL CONTROL RELAY ASM
375473	VR1	RV REGULATOR CARD
375472	VR1	RV REGULATOR CARD
375478	UVIOV	UVIOV OUTPUT CARD
375348	VM	UVIOV VOLTAGE MON.
375345	REF VOLT	UVIOV REF VOLT
1767843	INTERFACE BOARD	INTERFACE BOARD
350977	T87 (8 POSITION)	T8 SHIELD
533382	T81 (5 POSITION)	T8 SHIELD
2513449	F10, F11, F12, F13	FUSE HOLDER

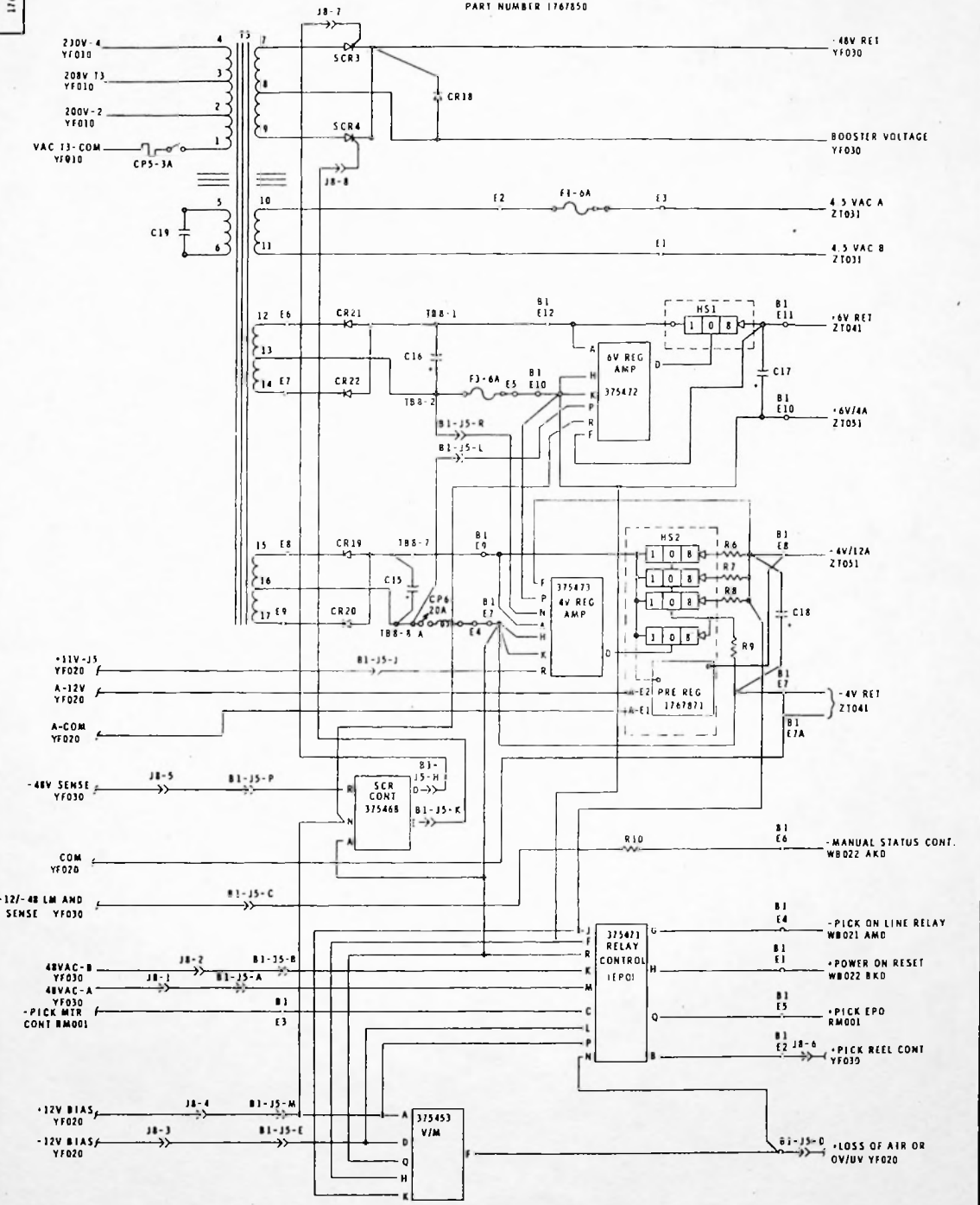
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<b>IBM</b>		DATE	CHANGE NO	DATE	CHANGE NO	1767841
NAME	SYS COMPONENT CHART	SEE E.C. HIST		17 DEC 76	449059	
DESIGN	50HZ-60HZ	8NOV73	734538	22MAY80	846320	
DETAIL	BMT 2 OF 2	RED	21JAN74			
CHECK			18JUN74			
APPRO	CLASSIFICATION N-VF 03AN74	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO 736683A	LOGIC PG NO YF036		

D  
1767854

PART NO 1767854	LOGIC PG NO YF04D
--------------------	----------------------

DC AND BOOSTER SUPPLY 60HZ  
3426 4, 6 PIGGYBACK  
FOR POWER SUPPLY  
PART NUMBER 1767850



- NOTES  
1 SIMILAR TO PART NUMBER 2515576

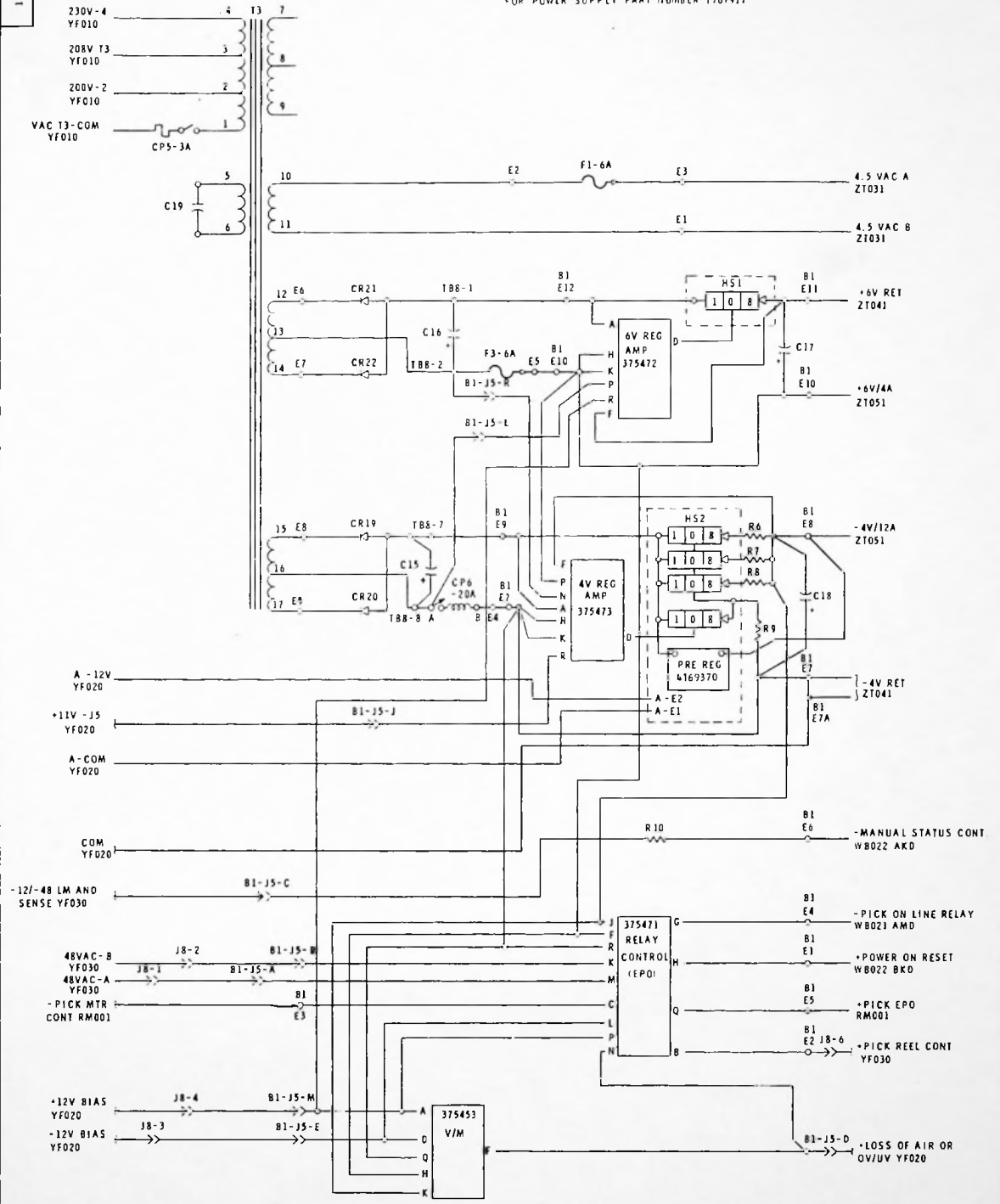
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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	3426-4, 6 DC AND BOOSTER SUPPLY 60HZ	26 JUN 72	7343058	22 MAY 80	846320
DESIGN	ECH	135 EP 72	734305C		
DETAIL	JWS 26 JUN 72	4 MAY 73	734469		
CHECK		18 OCT 73	734488		
APPRO					
CLASSIFICATION		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
N-ER 21MM72				LOGIC PG NO	
				YF04D	

D  
1769922

PART NO 1769922 LOGIC PG NO YF040

DC AND BOOSTER SUPPLY 60HZ  
3420-004-006-008 PIGGYBACK  
FOR POWER SUPPLY PART NUMBER 1769917



NOTES:  
1 SIMILAR TO PART NUMBER 2515556

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	DC AND BOOSTER	8MAY73	734499		
SUPPLY	60HZ	18OCT73	734488		
DESIGN	ECH 1MAR73 BHT OF	SAP 73	443862		
DETAIL	LD 8MAY73	72MAY80	885320		
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO		N-ECH 1MAR73			YF040

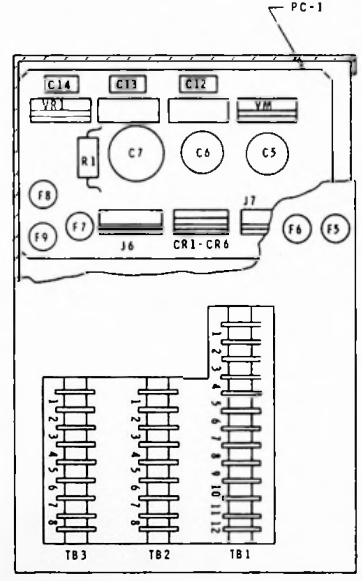
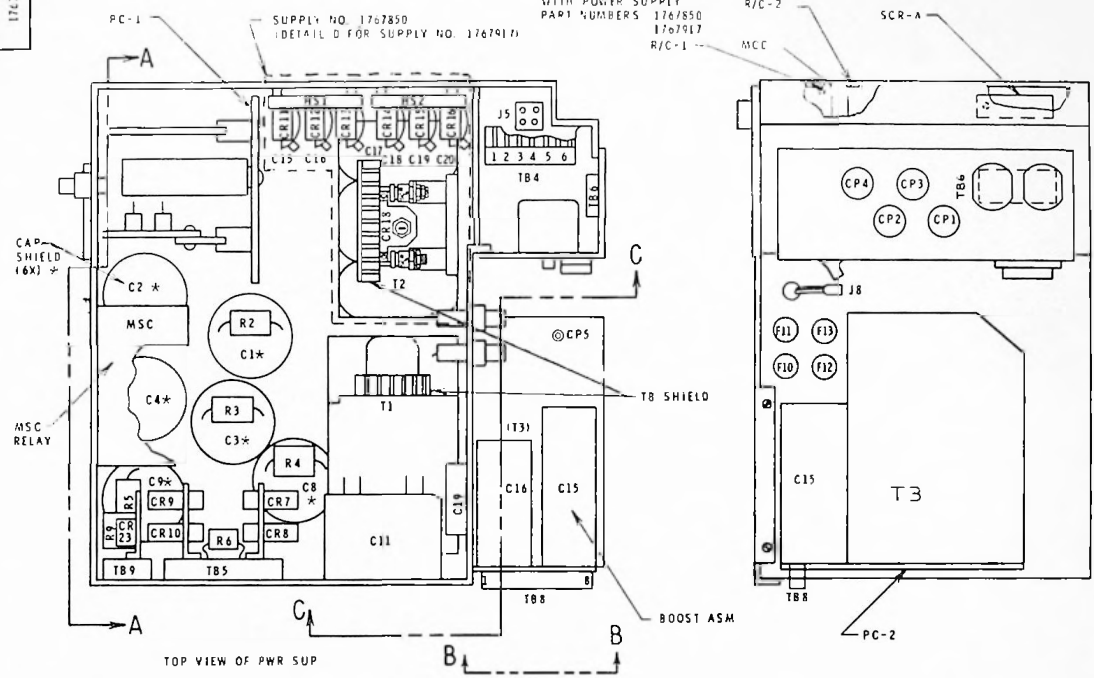
D  
1767855

PART NO  
1767855

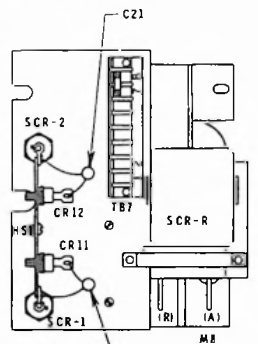
LOGIC PG NO  
YF05B

3420 004 006 005 PIGGYBACK  
COMPONENT CHART

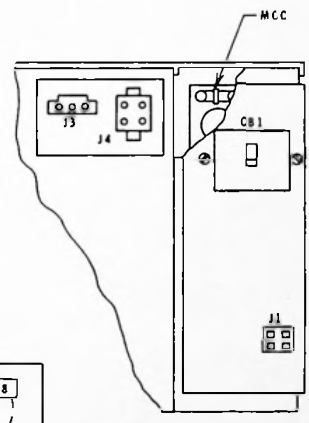
80HZ  
WITH POWER SUPPLY  
PART NUMBERS 1767850  
1767917  
R/C-1



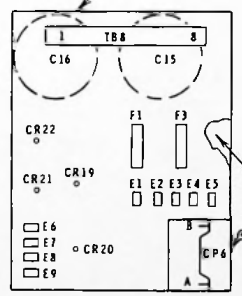
SECTION A-A



DETAIL D



VIEW C-C



VIEW B-B  
SCALE NONE

- NOTES
- 1 SIMILAR TO PART NUMBER 2535574
  - 2 SUBSTITUTE PART NUMBER 375338
  - 3 NON-PCB
  - 4 SUPPLY PART NUMBER 1767850 ONLY
  - 5 SUPPLY PART NUMBER 1767917 ONLY
  - 6 PART NUMBER 5796393 MAY BE PRESENT ON SOME MACHINES
  - 7 PART NUMBER 5796429 MAY BE PRESENT ON SOME MACHINES

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM COMPONENT CHART	24 JUN 72	734305B	21 JAN 74	736931
DESIGN	ECH	13 SEP 72	734305C	19 JUN 74	736683A
DETAIL	RFT	24 JUN 72	4MAY73	17 DEC 74	449059
CHECK			18OCT73	22MAY80	846320
APPRO					
CLASSIFICATION		MUST CONFORM TO ENO SPEC		DEVELOPMENT NO	
N-ER IN/20				LOGIC PG NO	
				YF05B	

3420-004, 006, 008 PIGGYBACK SHEET 2 OF 2  
60HZ COMPONENT CHART  
WITH POWER SUPPLY  
PART NUMBERS 1767850, 1767917

NOTE	PART NO.	SYMBOL	DESCRIPTION
	5261825	C1, C2, C3, C4	70,000 $\mu$ F 13V CAPACITOR
	208238	C5, C6	10,000 $\mu$ F 33V CAPACITOR
	5266023	C7	10,000 $\mu$ F 55V CAPACITOR
	5214233	C8, C9	20,000 $\mu$ F 75V CAPACITOR
4	2515463	C15-C20	05 MFD CAP
	369849	C12, C13, C14	CAP. 50 MFD AT 50VDC
	5252817	C11 NOTE 1	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 (47 $\Omega$ , 22 $\mu$ F)
	359959	R1	1.5K 5W RES
	501505	R2, R3	50 $\Omega$ 10W RES ASM
	5761896	R4, R5	300 $\Omega$ 20W RES ASM
	2513470	R6	2W 200 $\Omega$ RES ASM
	472588	R9	15 $\Omega$ 25W RES
4	127324	CR18	30 AMP DIODE
	375332	CR1 THRU CR6	7 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
	*318968	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	ROOST ASM SHIELD	USE WITH BOOST ASM
	533362	T8 SHIELD	USE WITH T1 15 POS. 1
4	352850	T8 SHIELD	USE WITH T2 19 POS. 1
5	350977	T8 SHIELD	USE WITH T2 18 POS. 1
	631769	CAPACITOR SHIELD	USE WITH C1-4, C8, C9

NOTE	PART NO.	SYMBOL	DESCRIPTION
	589091	MCC (K1)	PNEU MTR RELAY ASM
	375386	VR1	REG CARD (12V)
	375470	VM	VOLTAGE MONITOR CARD ASM
	5719454	CB1	15 AMP CIRCUIT BRKR
	303679	F1, F3	FAST BLOW 6 AMP
	596676	F6	15 AMP FUSE MED TIME LAG
	855231	F7 F8	2 AMP FUSE INSTANTANEOUS
	111255	F9	75 AMP FUSE INSTANTANEOUS
5	1767881	F10	12 AMP FUSE MEDIUM TIME LAG
4	433557	F10	8 AMP FUSE MEDIUM TIME LAG
	433557	F5, F11	8 AMP FUSE MEDIUM TIME LAG
4	511063	F12 F13	10 AMP FUSE MEDIUM TIME LAG
5	596676	F12 F13	15 AMP FUSE MEDIUM TIME LAG
4	2229542	CP1, CP2	7 AMP CIRCUIT PROT
5	2218599	CP1	10 AMP CIRCUIT PROT
	2513475	CP3, CP5	3 AMP CIRCUIT PROT
	2513489	CP4	0.5 AMP CIRCUIT PROT
	2304267	CP6	20 AMP CIRCUIT PROT
	2513459	T1	TRANS FERRO
4	2513490	T2	TRANS 3 $\Omega$ -48 VOLT
5	2515445	T2	TRANS -48 VOLT
	2515524	T3	FERRO TRANSFORMER
5	2515446	T2 AND TAP CHG	TAP CHANGER ASM
	1767862	PC-2	CARD ASSEMBLY RECTIFIER
	2524670	PC-1	REGULATOR VOLT BOARD
	2195298	J1 CLIP	CABLE RETAINER
	1160977	J8	BOOST INNER ATTACH
	2523072	J1	INPUT POWER
	1166116	J3	CHAN AIR SOL
	2501405	J4	PNEU SUP MOTOR
	2501405	J5	COOL BLOW

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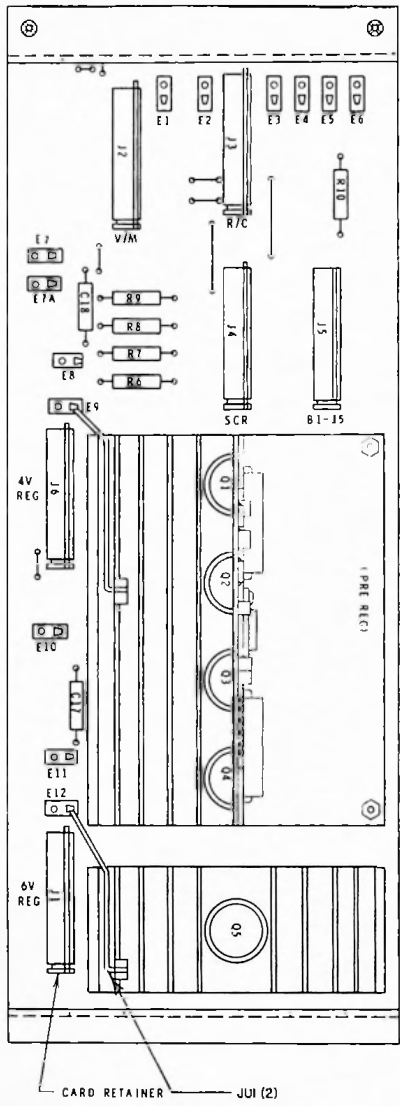
IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM COMPONENT CHART	21 JUN 72	7343058	21 JAN 74	736931
	60HZ	13 SEP 72	734305C	19 JUN 74	736683A
DESIGN	SHT 2 OF 2	4 MAY 73	734499	17 DEC 74	449059
DETAIL		18 OCT 73	734488	22 MAY 80	846320
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	N-ER 7/11/80			LOGIC PG NO	
					YF050

D  
1767856

PART NO 1767856	LOGIC PG NO YF060
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50-0612Z J420-004, 006, 008 PIGGYBACK  
COMPONENT LOCATION  
CHART

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



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 0.1a, 5W
335329	R9	RESISTOR 47a, 2W
317088	R10	RESISTOR 3Ka, 2W
369214	Q1-Q5	TRANSISTOR 108
4169370	PRE REG	PRE-REGULATOR
2521562	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	6 APR 75	4413862
				13 SEP 72	734305C	23 NOV 76	449063
DESIGN	ICH	BHT	OF	4 MAY 73	734499	21 MAR 77	449068
DETAIL	RTM			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	

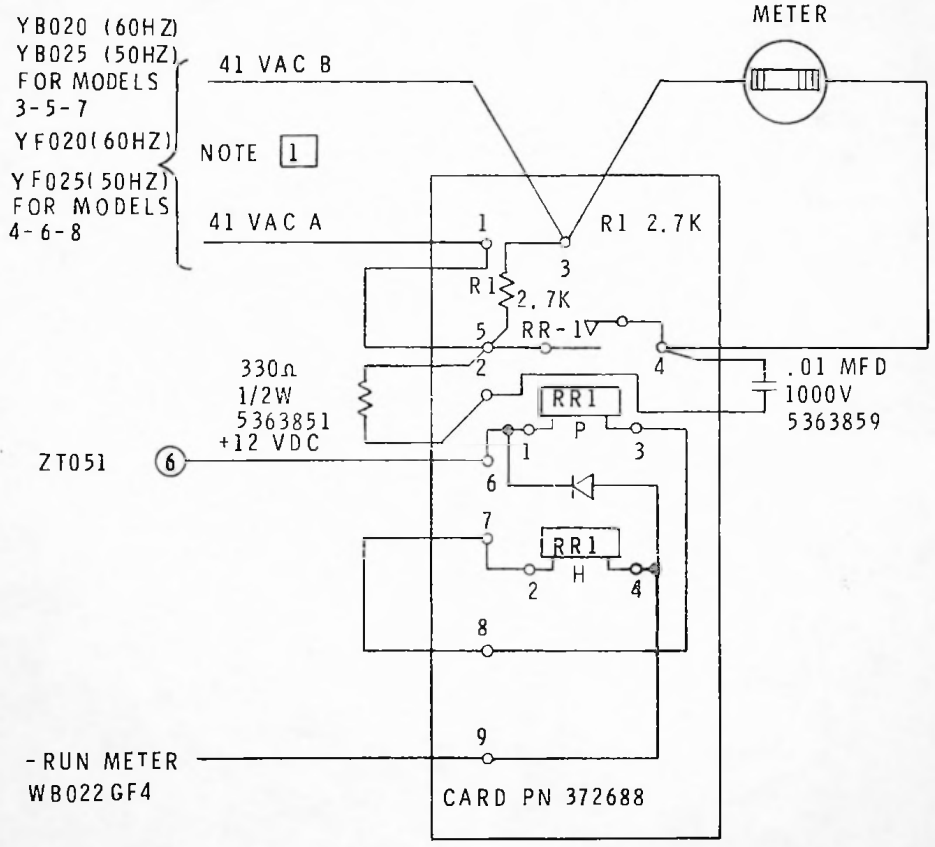
1767856

D

1766784

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# USAGE METER



NOTES

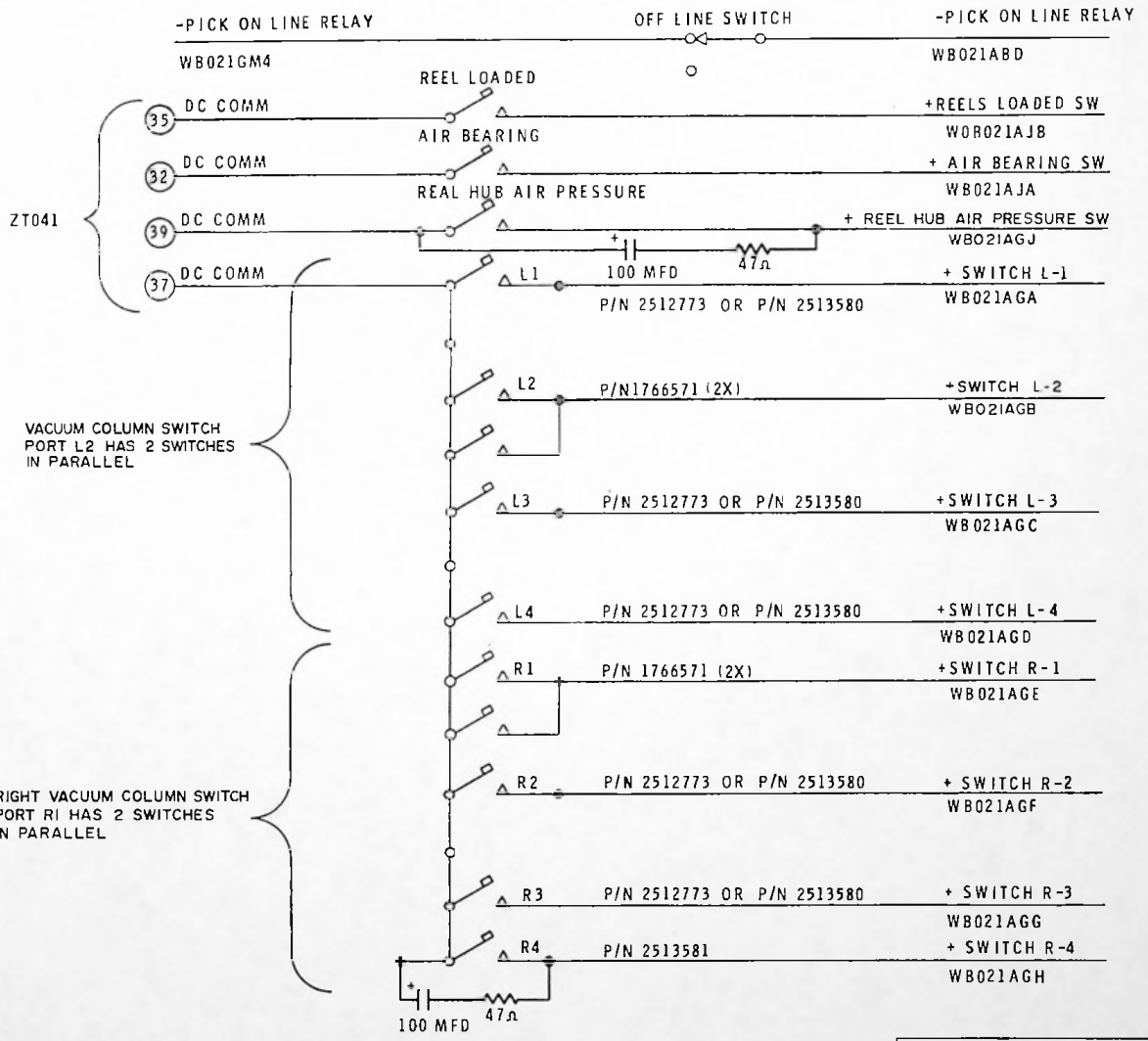
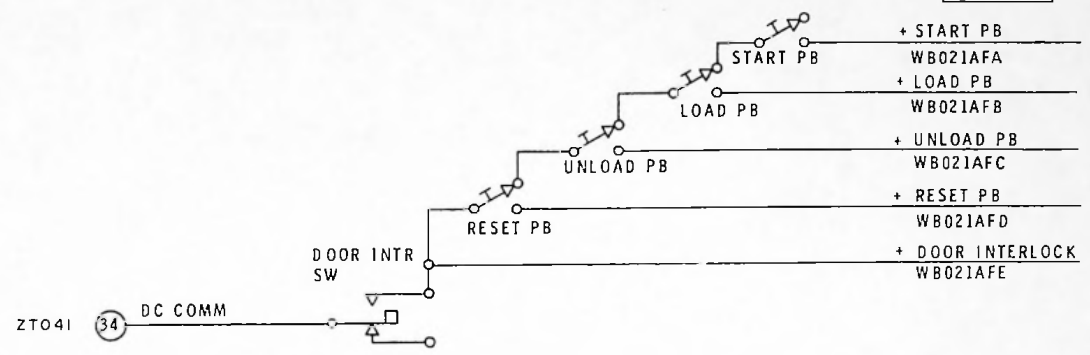
- 1 INPUT VOLTAGE IS APPROXIMATELY 41 VAC WHEN METER IS RUNNING AND 53.5 VAC WHEN METER IS NOT RUNNING

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME		14OCT72	734303F			X PRINT TO ENG. SPEC. NO.	1766784
SYSTEM DIAGRAM		22MAY80	846320				
DESIGN	MODEL						
DETAIL	14OCT72						
CHECK	DRAW						
APPRO	N-DK BOALX72	CHECK				ZTOOL	



1766785  
STANDARD CODE

CARD CODE ZTOII



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	OP PANEL AND	DATE	140C72	734303F						
	VACUUM SWITCHES		65EP73	736017						
			7JUL75	443899						
DETAIL	GKG	140C72	SCALE							
CHECK				5MAR76	443899					
APPRO				16NOV81	847861					

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ZTOII

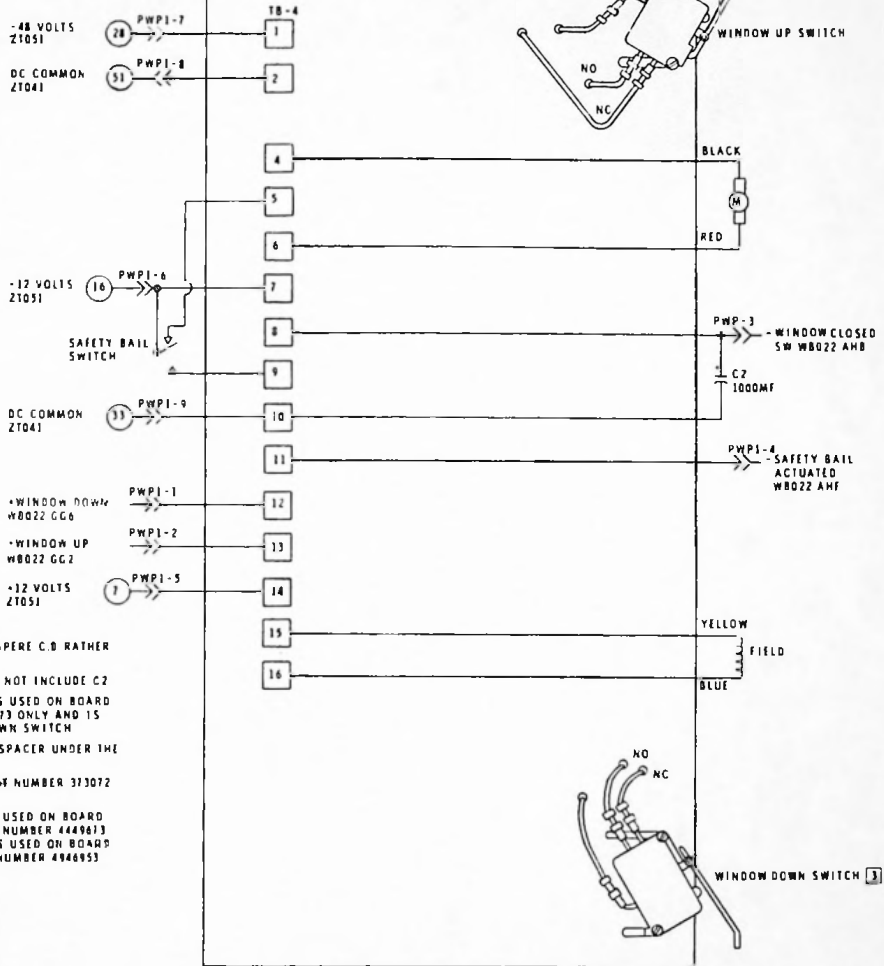
1766785

D 4449679

PART NO 4449679 LOGIC PG NO ZT021

P/N 4449679 AND 4449678 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 4	5418005, 829728
WINDOW DOWN SWITCH 6	5418005, 829728
SWITCH ACTUATOR	2501152
FUSE 2A	615683
FUSE HOLDER	179946
C2	1767493
SPACER 1	4169484
RELAY 5	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 4449679 AND 4449678 ONLY AND IS LOCATED UNDER THE WINDOW DOWN SWITCH
- 4 CHECKPOINT FOR EC 443925 IS A SPACER UNDER THE WINDOW DOWN SWITCH
- 5 RELAY ONLY USED ON BOARD PART NUMBER 373072 AND PART NUMBER 4449679
- 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 4449679

CIRCUIT BOARD PART NUMBER 373072 AND 4449679 CONTROL MOTOR DIRECTION BY REVERSING THE DIRECTION OF ARMATURE CURRENT  
 TERMINAL VOLTAGE FOR VARIOUS MOTOR STATES WHEN USING BOARD PART NUMBER 373072 AND 4449679

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

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	
	TERMINAL AND WIRE COLOR	TERMINAL AND WIRE COLOR	TERMINAL AND WIRE COLOR	TERMINAL AND WIRE COLOR
GO UP	4/BLACK -48V	6/RED -1V MAX	15/YELLOW -1V MAX	16/BLUE -48V
GO DOWN	-48V	-1V MAX	-1V MAX	-1V MAX
STOP	-48V	-48V	-10V MAX	-10V MAX

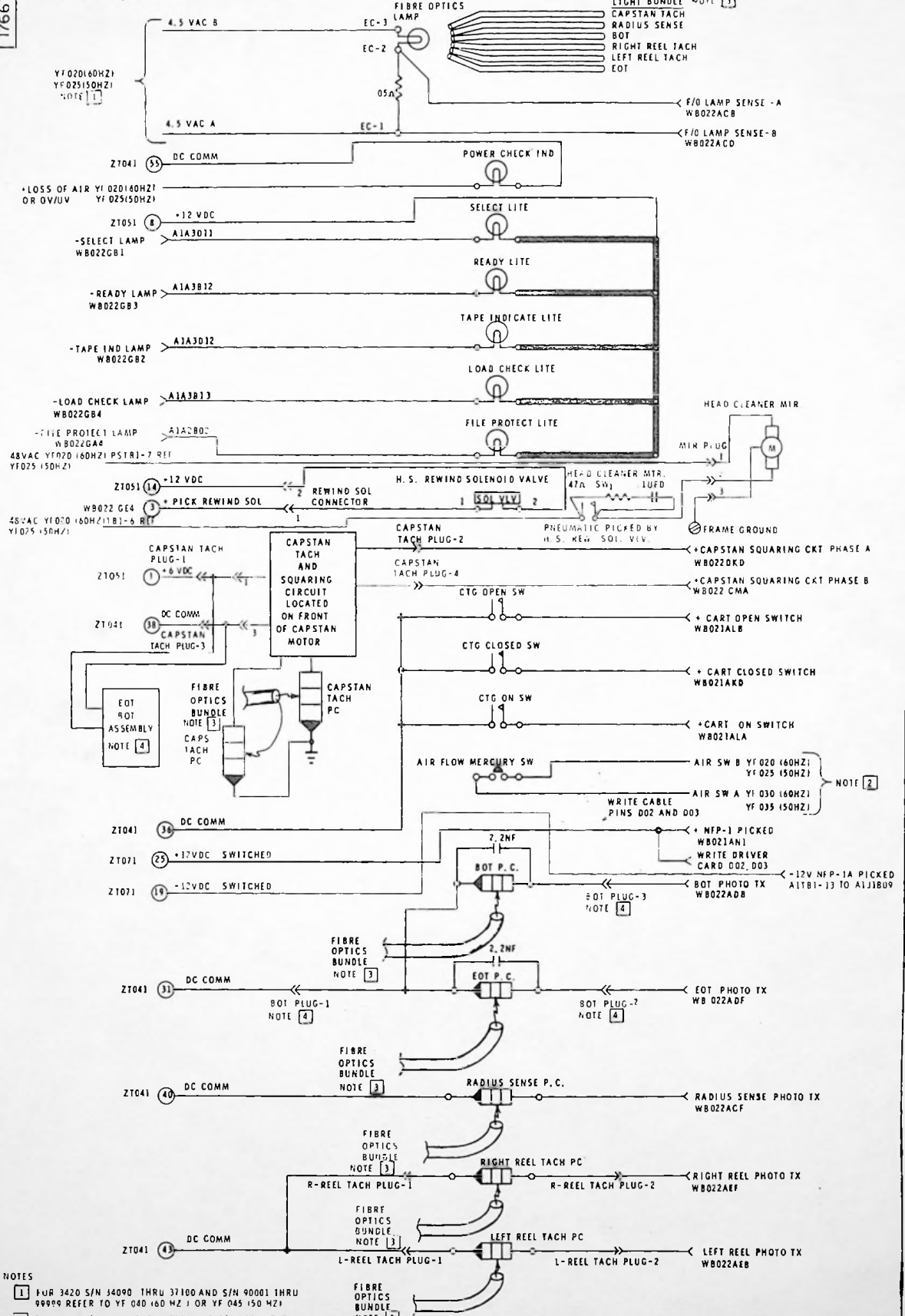
NOTE: ON THESE TWO BOARDS THE FIELD VOLTAGE WILL REVERSE FOR APPROXIMATELY 100 MS WHEN THE MOTOR STOPS IN THE OPEN OR CLOSED POSITION

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM POWER	22 MAR 80	846320		
WINDOW BOARD	3420 ALL MODELS	12JUN81	846320C		
DESIGN	CS 8NOV79	BY 1 OF 1	21DEC81	847861A	
DETAIL	CD1				
CHECK	AK 19JAN80	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO					

4449679 D

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- NOTES
- 1 FOR 3420 S/N 34090 THRU 37100 AND S/N 90001 THRU 99999 REFER TO YF 040 160 HZ 1 OR YF 045 150 HZ 1
  - 2 FOR 3420 S/N 34090 THRU 37100 AND S/N 90001 THRU 99999 REFER TO YF 020 160 HZ 1 YF 025 150 HZ 1
  - 3 ON SOME MACHINES A LED MAY BE PRESENT IN PLACE OF FIBRE BUNDLE
  - 4 ONLY PRESENT ON MACHINES WITH LED EOT/BOT ASSEMBLY

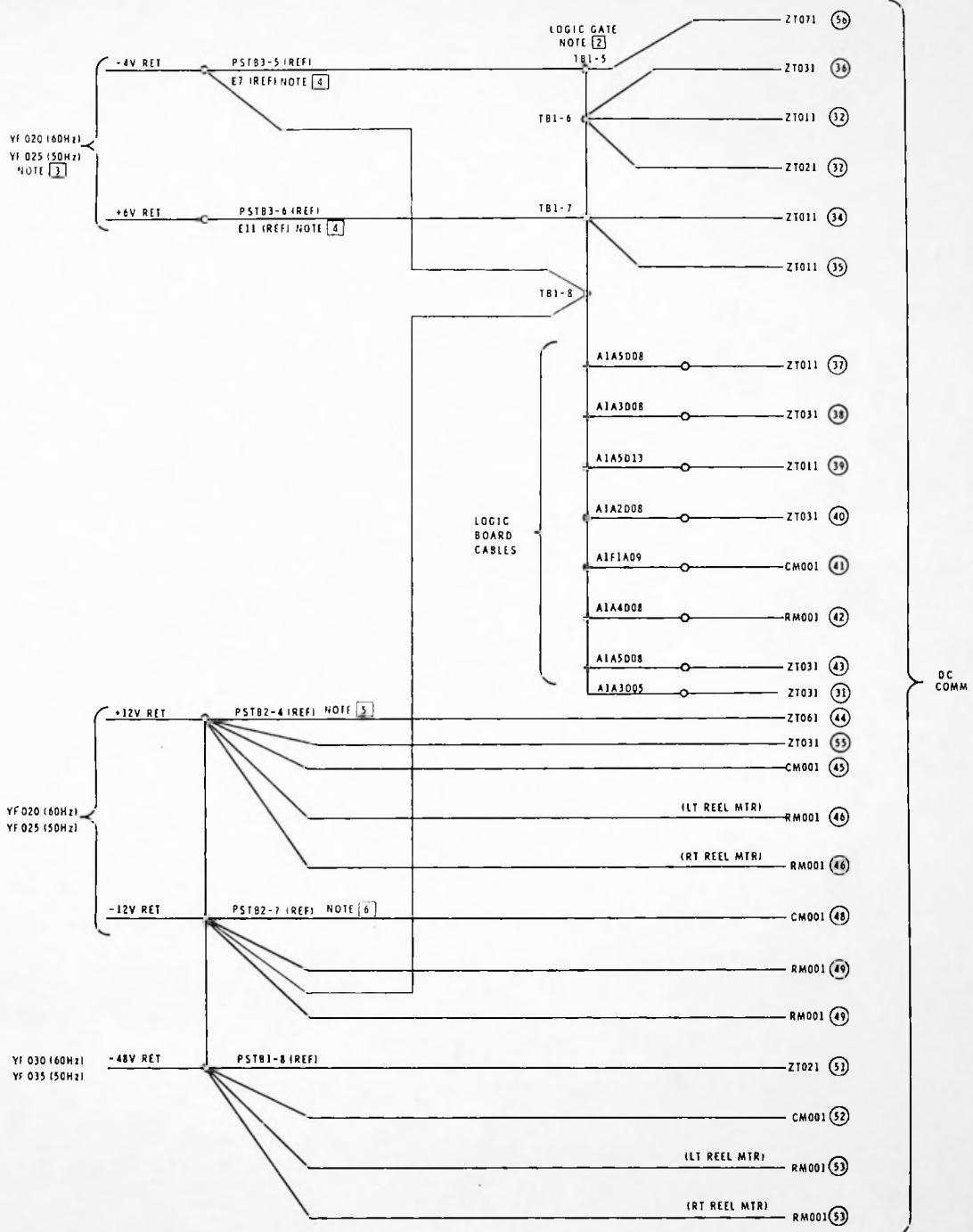
DATE	CHANGE NO	DATE	CHANGE NO	NOTE	DEVELOPMENT NO
16OCT72	74303F	8NOV73	734673	X PRINT TO ENCL SPEC NO	ZT031
7DEC72	734768	22APV72	846320		
7FEB73	71478u				
5MAY73	714167				
18JUN73	755624				

1766788

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D C COMMON DISTRIBUTION 3420  
50HZ AND 60HZ

ZT041



NOTES

- 1 PSTB1, PSTB2, and PSTB3 REFER TO TB'S 1-2-3 ON FRONT OF POWER SUPPLY
- 2 SEE PAGE F1910 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

DATE	CHANGE NO	DATE	CHANGE NO	NOTE
16OCT72	734303F			X PRINT TO ENG. SPEC. NO
20ECC72	734768			
17FEB73	734780			
28JUN73	735637			
22MAY80	846320			

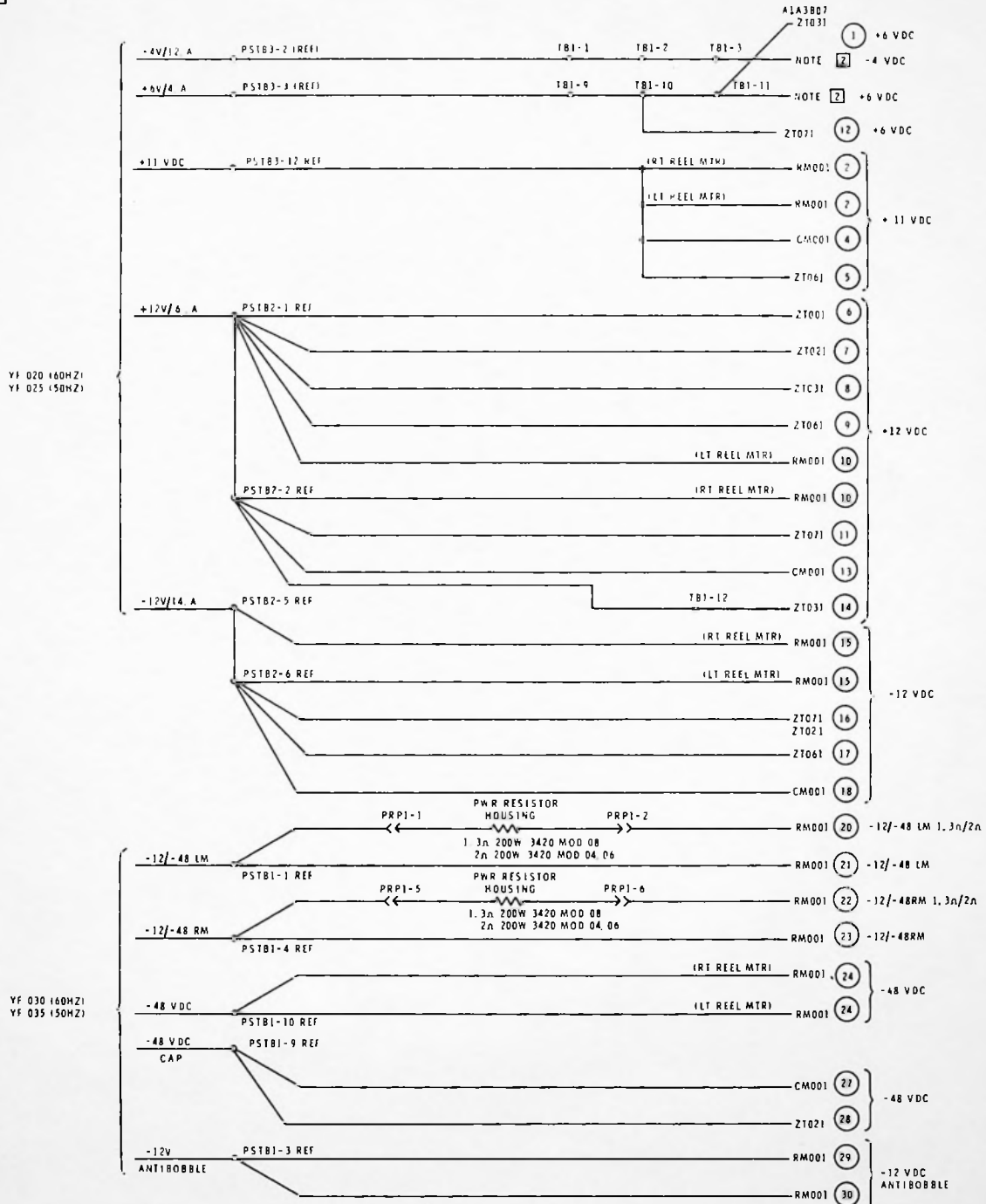
ZT041

900-714-000

D  
1766789

PART NO  
1766789  
LOGIC PG NO  
2T051

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



YF 020 (60HZ)  
YF 025 (50HZ)

YF 030 (60HZ)  
YF 035 (50HZ)

- NOTES
- 1 PSTB1, PSTB2 AND PSTB3 REFER TO TBI, TB2 AND TB3 ON FRONT OF POWER SUPPLY
  - 2 SEE PAGE FT910 FOR LOGIC GATE DISTRIBUTION
  - 3

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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	BMT 1 OF 1	RED 19APR78	440093	
DETAIL	JTL 19APR78		22MAY80	846320	
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO		N-DK 30AUG72			2T051

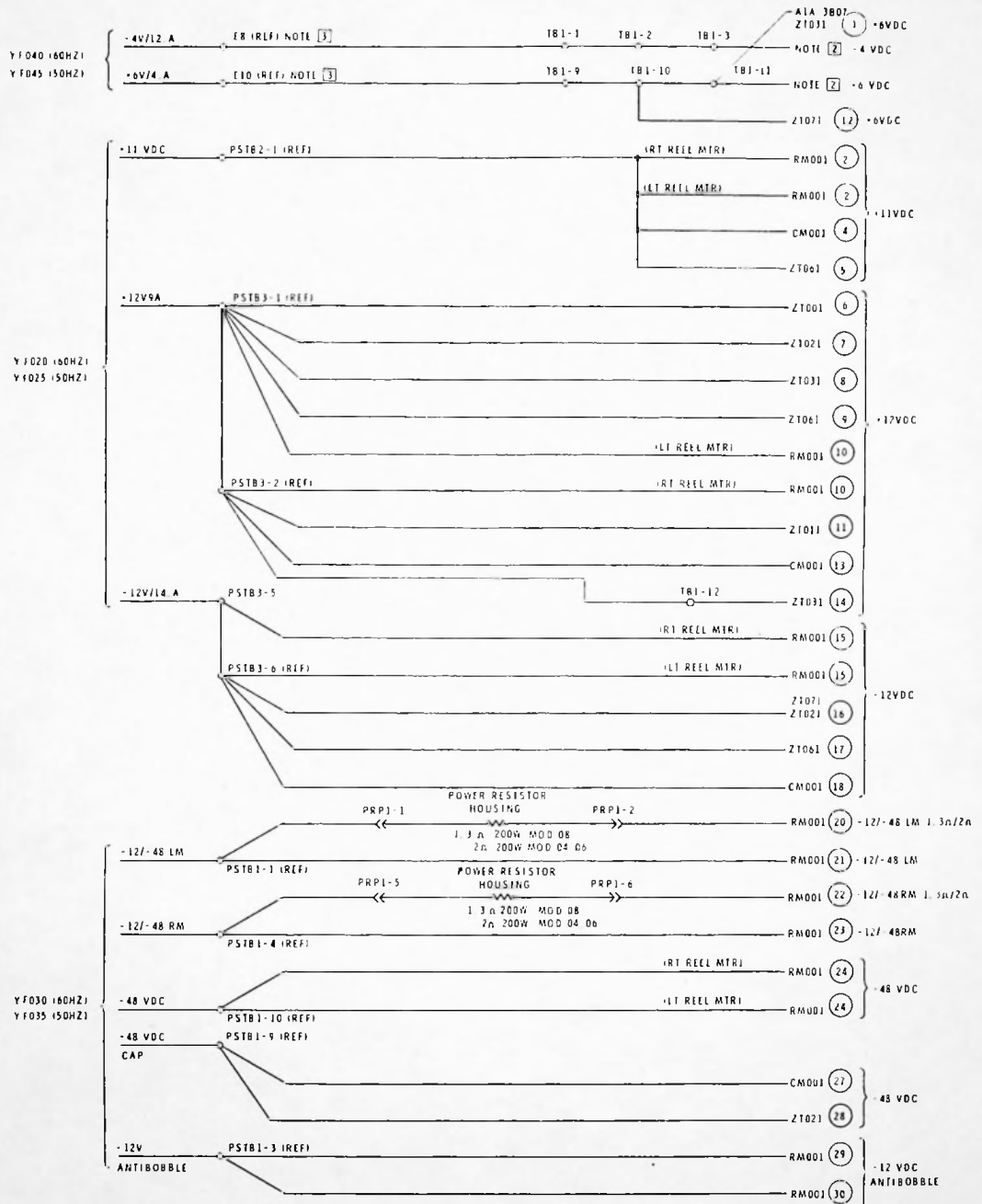
1766789

D

1845796

PART NO 1845796 LOGIC PG NO 71051

DC DISTRIBUTION 3420 MOD 4 & B PIGGYBACK  
50HZ AND 60HZ



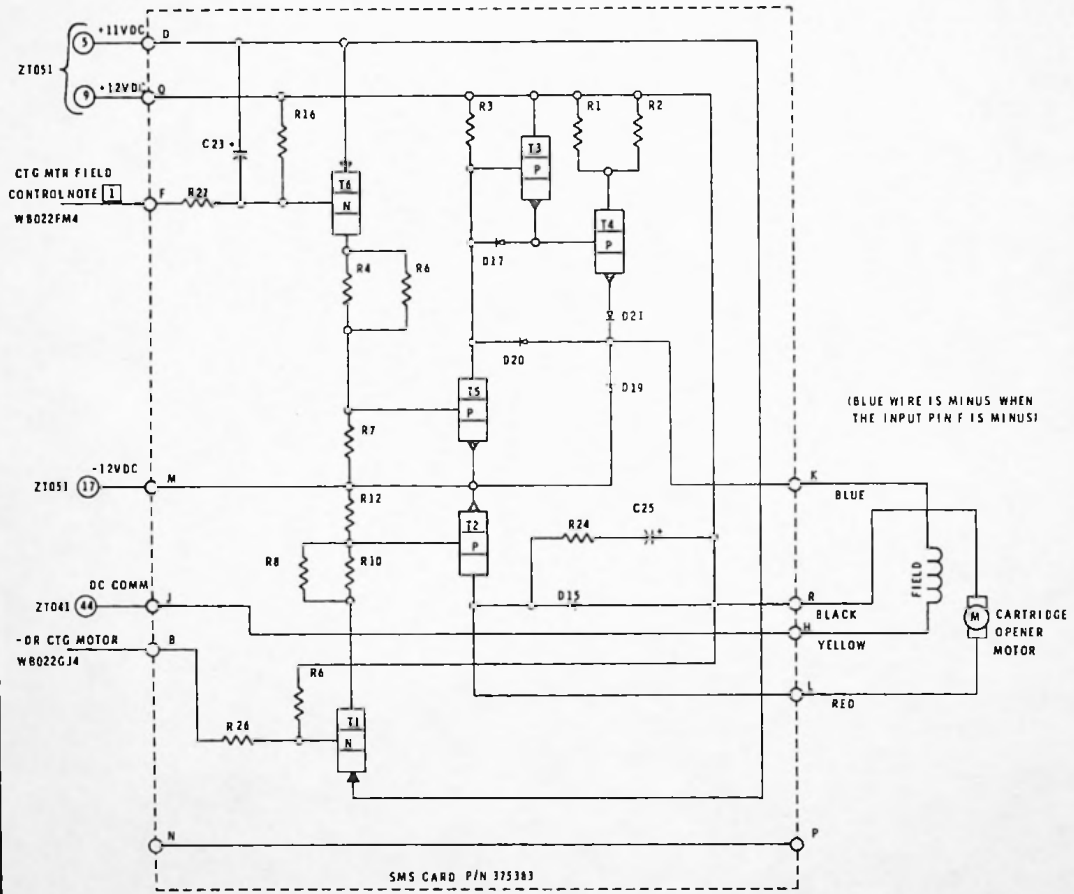
- NOTES
- 1 PSTB1, PSTB2, AND PSTB3 REFER TO TB1, TB2, AND TB3 ON FRONT OF POWER SUPPLY
  - 2 SEE PAGE FT910 FOR LOGIC GATE DISTRIBUTION
  - 3 EB AND E30 TERMINATIONS ARE LOCATED ON POWER REG BOARD NEXT TO RIGHT REEL MOTOR BOARD

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	REFERENCE PAGE			20FEB73	734780		
DC DISTRIBUTION MOD 4 & B				5MAR73	734787		
DESIGN	DBK			19APR78	449093		
DETAIL	GWS	20FEB73		27MAY80	846120		
CHECK						LOGIC PG NO	
APPRO						Z1051	
		CLASSIFICATION		MUST CONFORM TO ENG SPEL			
		N-DK	06FEB73				

1845796

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)

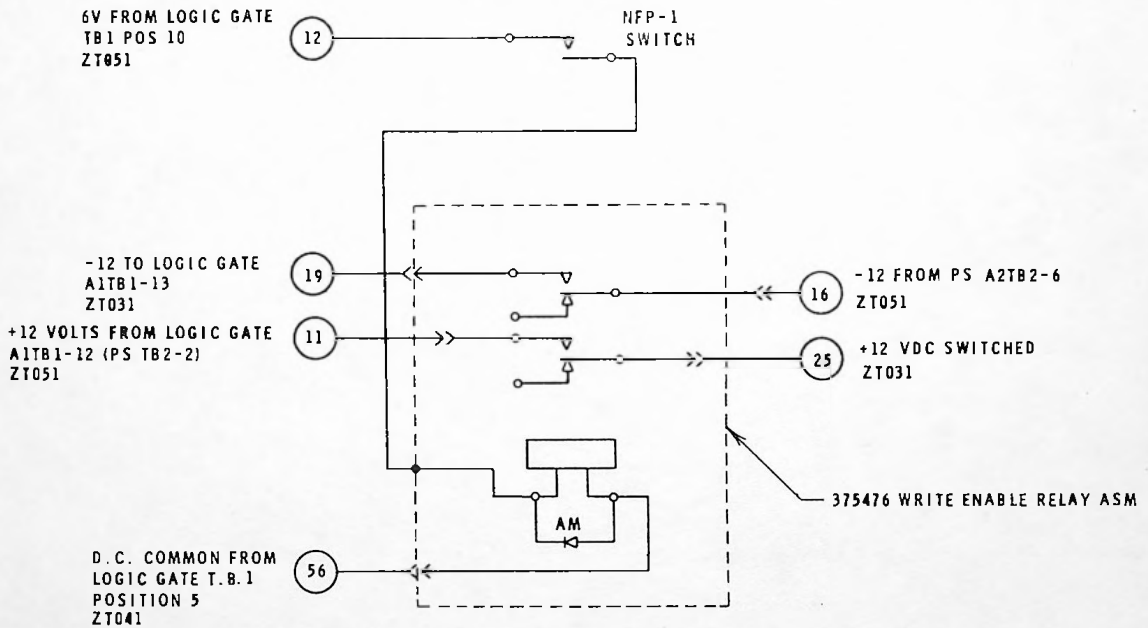
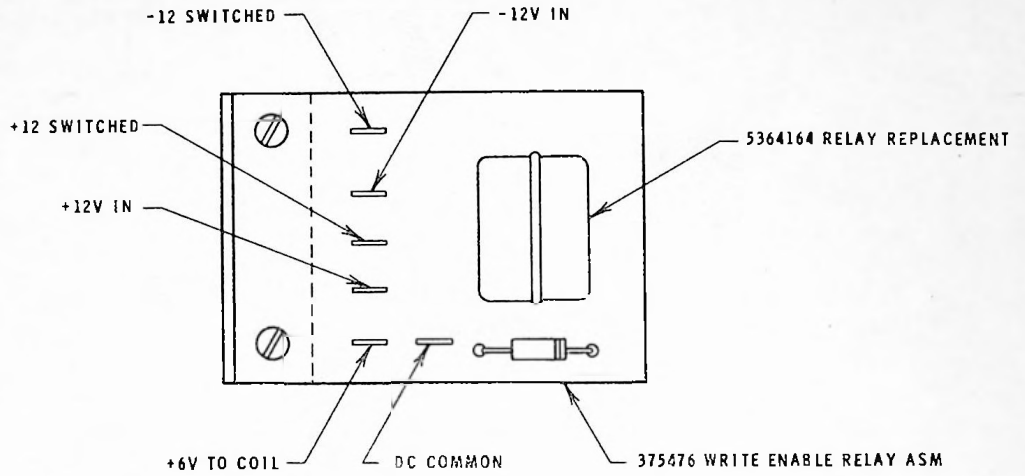
NAME	DATE	CHANGE NO	DATE	CHANGE NO	NOTE	DEVELOPMENT NO
SYSTEMS DIAGRAM CART	140C772	734303F			PRINT TO ENG SPEC NO.	ZT061
OPENER CONTROL	27MAY80	846320				
CHECKER	CC - L. O. TTA	DRM				
APPROV	N - DKD	DAUG72	CHCA			

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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-DM	5DEC72							