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3880

Storage Control Models 21 and 23
Maintenance Diagram Manual

3880 MDM	Seq AA0010	PN 6315733 1 of 2	881146 13 Jan 84	881221 15 Aug 84	A21802 17 Jun 85		

Preface

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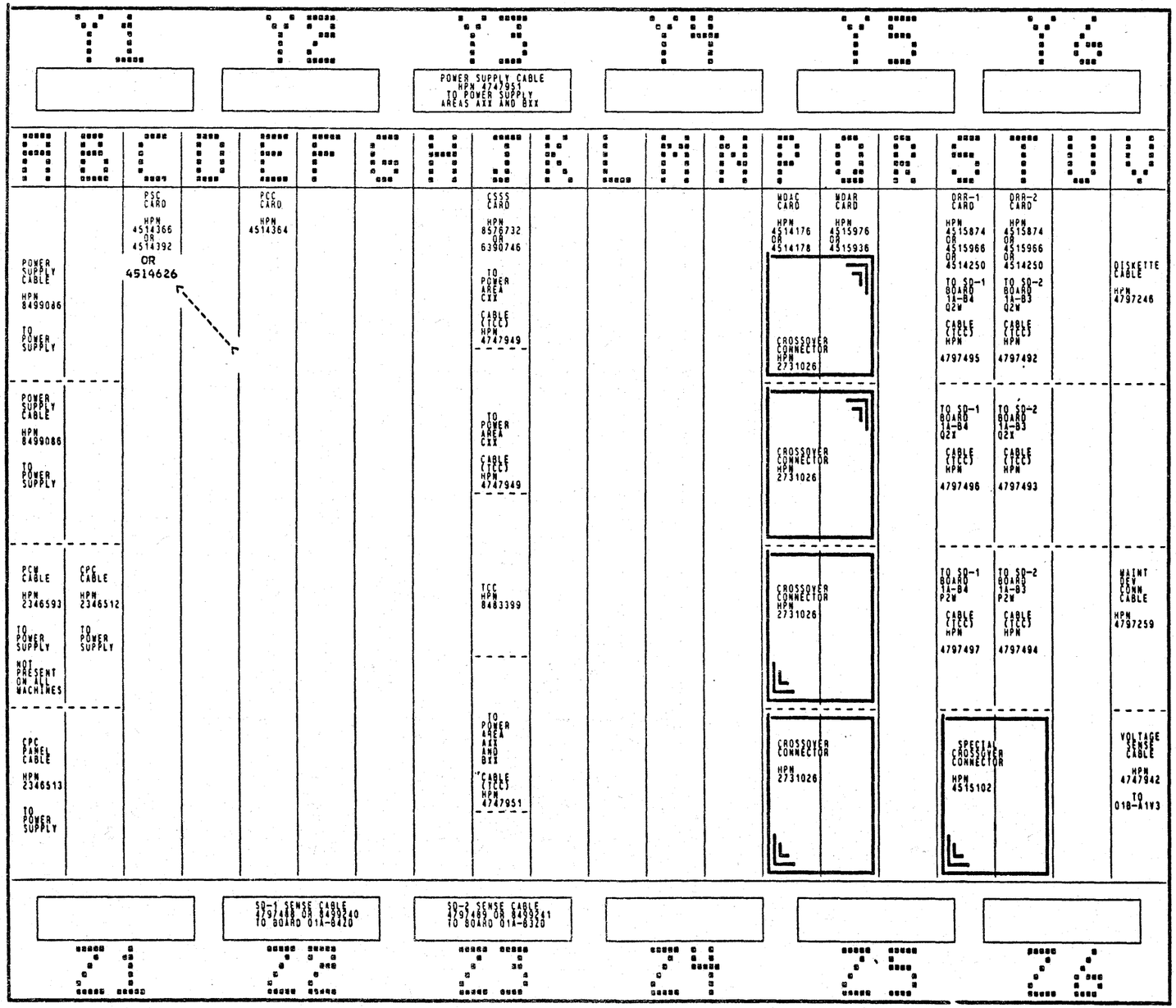
	1	2	3
3880 MDM	Seq AA0010	PN 6315733 2 of 2	881146 13 Jan 84

Groups of pages can be ordered by including a description (section, volume) and the machine serial number.

Related Publications

A list of related publications can be found in the Maintenance Support Manual, REF section.

3880 MDM	Seq AA0010	PN 6315733 2 of 2	881146 13 Jan 84	881221 15 Aug 84	A21802 17 Jun 85		



BOARD (HARDWARE) PART NUMBER 4748573.8576733.6316002.6390758

NOTE: IF OPTIONAL EC 450175 IS INSTALLED, THERE WILL BE A 1.2 UFD POLARIZED CAPACITOR, PN 1848742, INSTALLED BETWEEN E4B12 (+) AND E4008 (-).

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

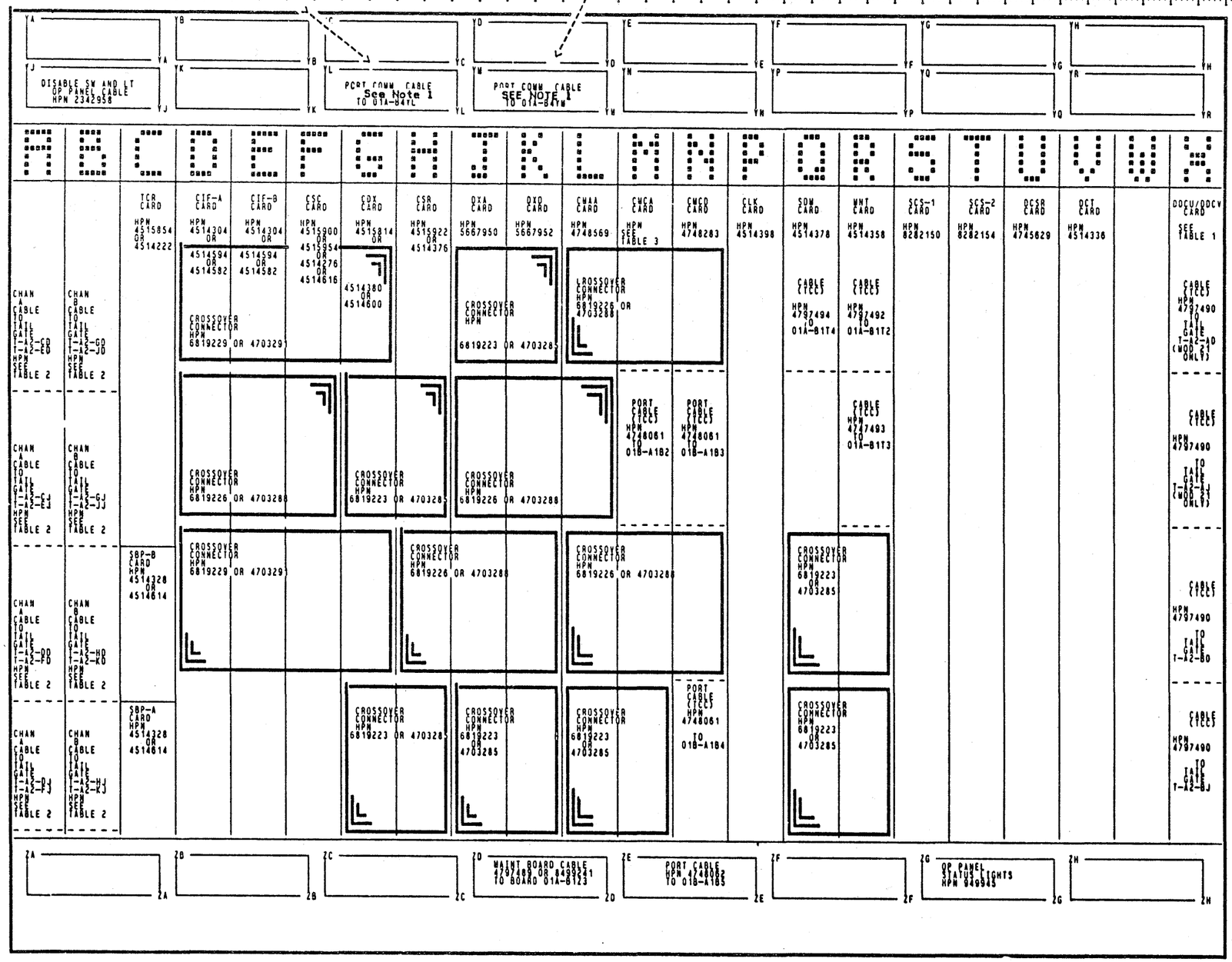
EC HISTORY

15FEB84 A81148	MAINTENANCE BOARD
30MAY84 A81525	
09AUG84 A81522	SEO 48021
10OCT84 A21560	PRINT 22MAR85 5778 PN 6315736
15JAN85 A21797	PAGE 1 OF 6

MACH 3880 HPN
PNAME MOJ MEC A21797
LOC 01A-B1

IBM CORP

EB020 (C) COPYRIGHT IBM CORPORATION 1985



NOTE 1: LOCATIONS YL AND YM MUST BOTH CONTAIN THE SAME PART NUMBER. IT CAN BE EITHER 4748063 OR 6272720. DO NOT MIX PART NUMBERS.

TABLE 1

CARD LOC	MOD 21	MOD 23
X2	DOCU 4514196 4514558 4514322	DOCV 4514214 4514218 OR 4514572

TABLE 2
CHANNEL CABLE CONFIGURATION

PLUG LOC	OLD CONFIG A/B	NEW CONFIG A/B
2	4797482	4797482
3	4797485	4797485
4	4797489	4797489
5	4797482	8499134
	WITH FACTORY INSTALLED E/M	
2	4797482	4797482
3	4797485	4797485
4	26P9458	26P9458
5	4797482	8499134

TABLE 3

SD BOARD 01A-B3/B4	6315998	6315981
CWCA CARD 01A-B3/B4 M2	4748515	6315973

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

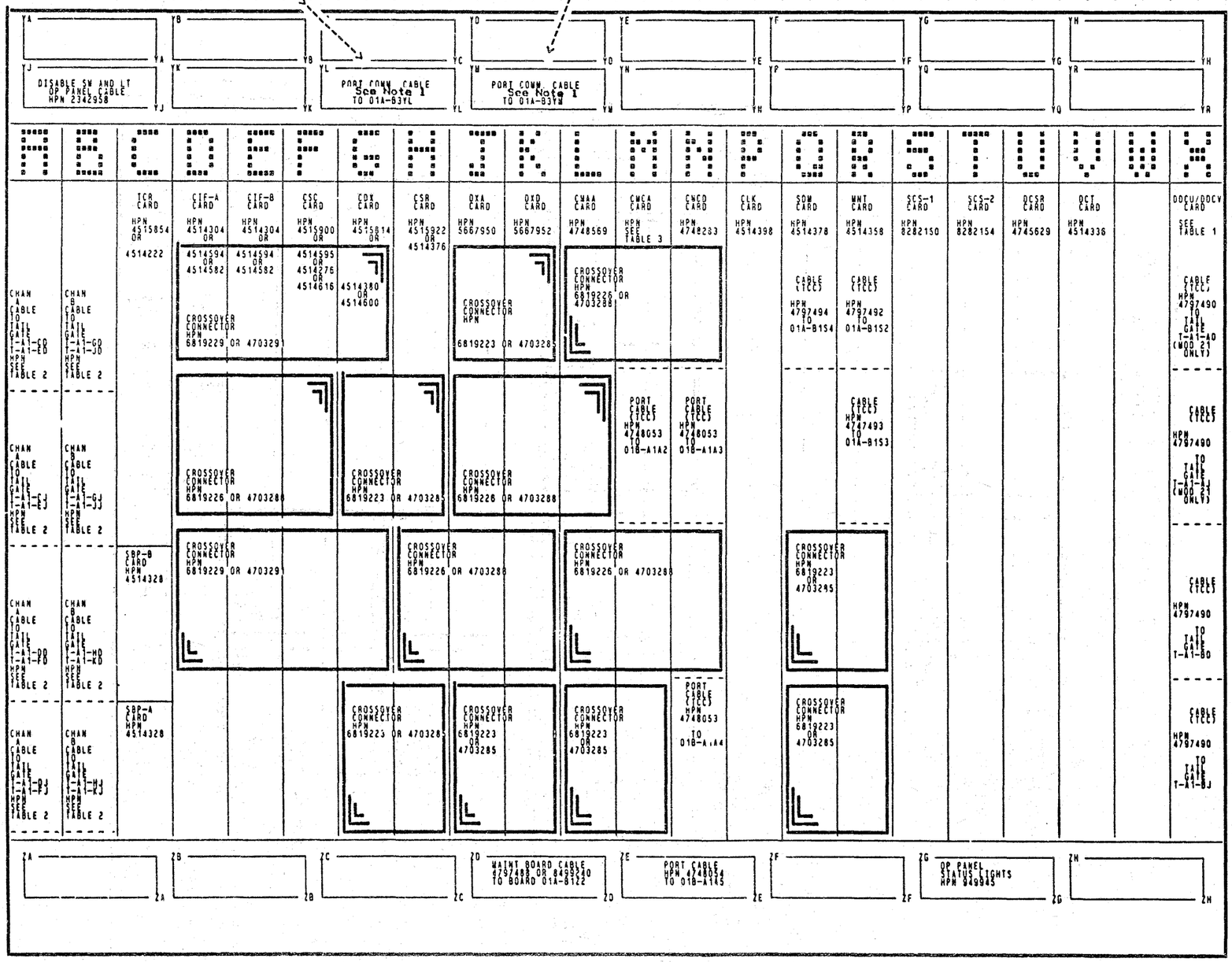
EC HISTORY

15FEB84 881148	STORAGE DIRECTOR 2
30MAY84 881219	SDS BOARD
09AUG84 881353	2 CHANNEL
10OCT84 A21797	SEC 18037
15JAN85 A21797	PRINT 22MAR85 0076 PN 6315736 PAGE 2 OF 6

IBM CORP | MACH 3860 | FRAME MOD1 | LOC 01A-B3 | HPN | HEC A21797

BOARD (HARDWARE) PART NUMBER: 6315998 OR 6315981

Temp. Rework
Suitable for filming



NOTE 1: LOCATIONS YL AND YM MUST BOTH CONTAIN THE SAME PART NUMBER. IT CAN BE EITHER 4748063 OR 6272720. DO NOT MIX PART NUMBERS.

TABLE 1

CARD LOC	MOD 21	MOD 23
X2	DDCU 4514396 4514288 4514322	DDCV 4514214 4514216 OR 4514572

TABLE 2
CHANNEL CABLE CONFIGURATION

PLUG LOC	OLD CONFIG A/B	NEW CONFIG A/B
2	4797483	4797483
3	4797485	4797485
4	4797488	4797488
5	4797482	8499134
	WITH FACTORY INSTALLED E/M	
2	4797483	4797483
3	4797485	4797485
4	3679456	3679456
5	4797482	8499134

TABLE 3

SD BOARD 01A-B3/B4	6315998	6315981
CMCA CARD 01A-B3/B4 M2	4748515	6315973

BOARD (HARDWARE) PART NUMBER: 6315998 OR 6315981

Temp. Rework
Suitable for filming

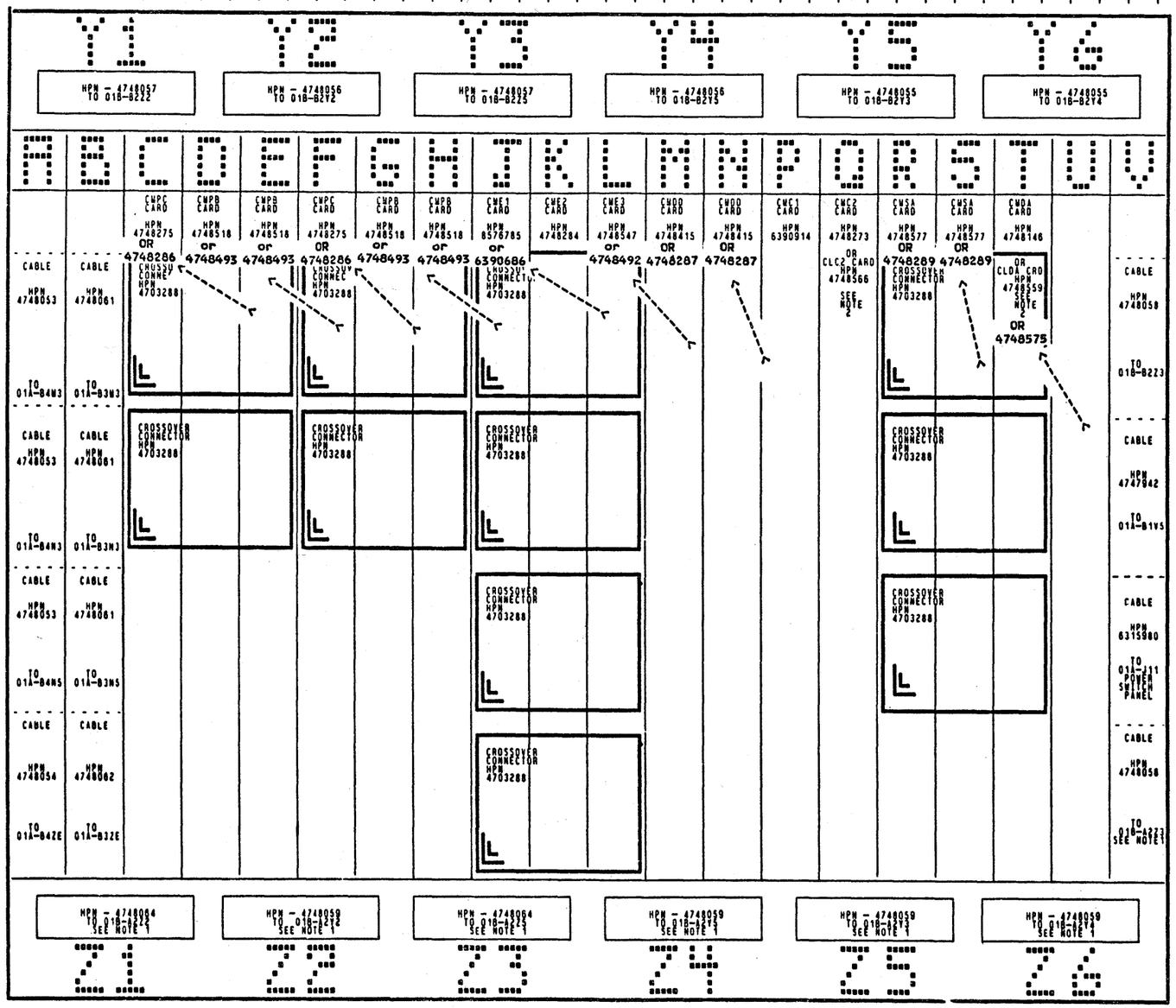
IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 8811146	STORAGE DIRECTOR 1
30MAY84 8811215	2CI BOARD
09AUG84 8811521	2 CHANNEL
10OCT84 A21750	SEC 18051
15JAN85 A21797	PRINT 22WAR85 0074 PN 6315736 PAGE 3 OF 6

MACH 3880 HPN
PNAME 802 HEC A21797
LOC 01A-B4

IBM CORP



BOARD (HARDWARE) PART NUMBER 4748285

NOTE:

1. PRESENT WITH 32 MB AND NOT EXPANDED STORAGE.
2. MACHINES WITH EXPANDED STORAGE USE CLC2 AND CLDA CARDS.

Machines other than Model 21s with serial numbers 84000 through 84299 have expanded storage.

Temp. Rework
Suitable for filming

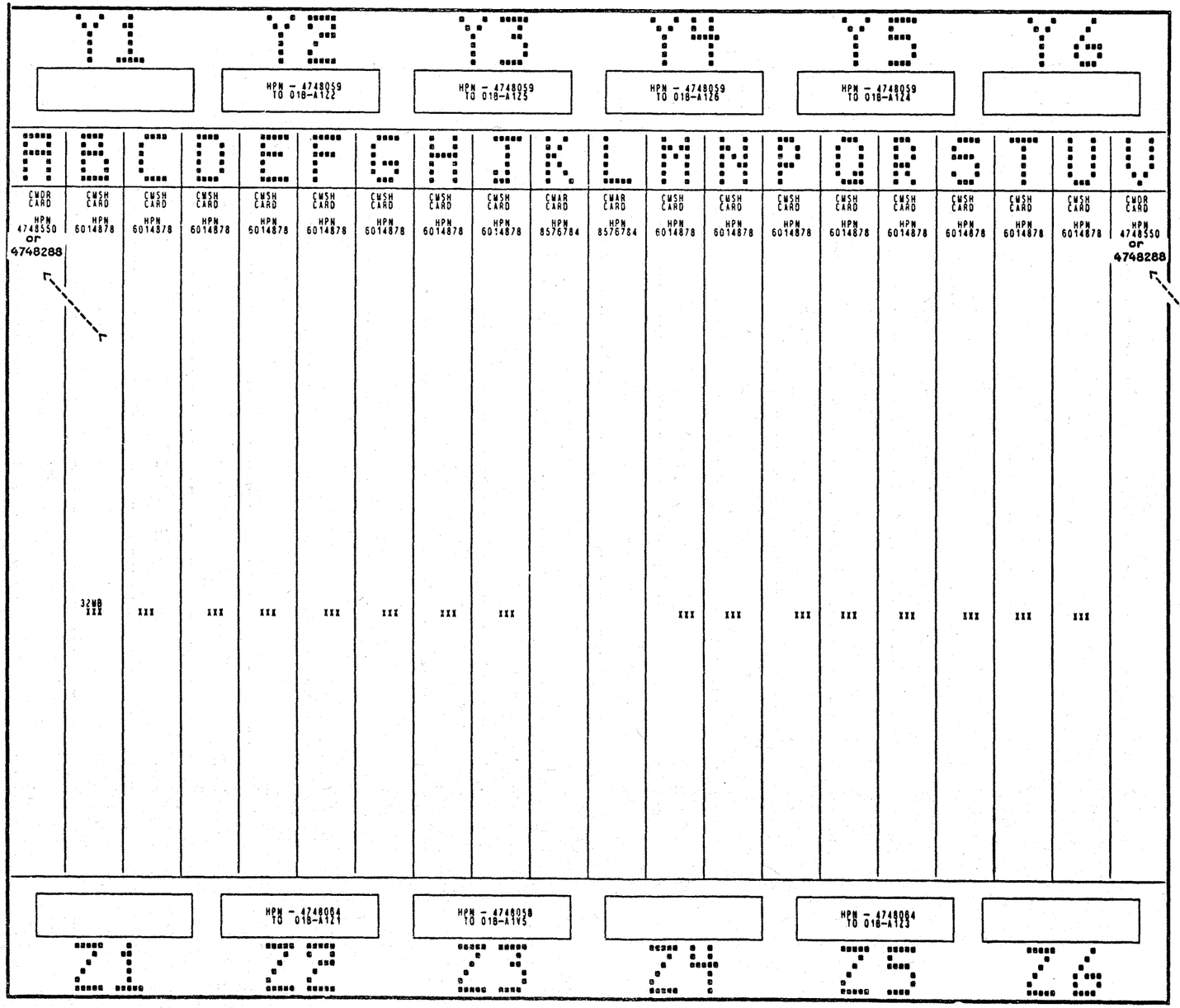
IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84	8811149	SUBSYSTEM STORAGE CONTROL BOARD
30MAY84	8811213	
09AUG84	8811213	
10OCT84	A21759	SEQ 19021
15JAN85	A21797	PRINT 08MAR85 1802 PN 6315736 PAGE 4 OF 6

MACH 3860 PNAME MOJ LOC 018-A1 HEC A21797

IBM CORP



NOTES:

XXX INDICATES WHICH CMSH STORAGE CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINE WITHOUT EXPANDED STORAGE ONLY.

CMSH (non-expanded storage) cards are in Model 21s with serial numbers 84000 through 84299 only.

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 881148	SUBSYSTEM STORAGE BOARD 2
10MAY84 881315	WITHOUT EXPANDED STORAGE
09AUG84 881554	
19OCT84 A21759	SEQ 48021
19JAN85 A21797	PRINT 14FEB85 1788 PM PAGE 5 OF 6

MACH 3860 HPN
PNAME NO1 HEC A21797
LOC 018-A2

IBM CORP

	Y1	Y2	Y3	Y4	Y5	Y6
		HPN – 4748056 TO 018-A1Y2	HPN – 4748055 TO 018-A1Y5	HPN – 4748055 TO 018-A1Y6	HPN – 4748056 TO 018-A1Y4	
	A	B C D	E F G	H J K L	M N P	Q R S T U V
CMDR CARD	HPN 4748550 or 4748288					HPN 4748550 or 4748288
CMSH CARD		HPN 6014878 OR CLP4 CARD HPN 6860756 OR CLP2 CARD HPN 6120161				
CMAR CARD				HPN 8576784 OR CLAR CARD HPN 4748494 OR 4748519	HPN 8576784 OR CLAR CARD HPN 4748494 OR 4748519	
8MB	XXX	XXX YYY	XXX	XXX	XXX YYY	XXX
16MB	XXX	XXX YYY	XXX	XXX	XXX YYY	XXX
32MB	YYY	YYY	YYY	YYY	YYY	YYY
48MB	YYY	YYY	YYY	YYY	YYY	YYY
64 MB	YYY	YYY	YYY	YYY	YYY	YYY
	Z1	Z2	Z3	Z4	Z5	Z6
		HPN – 4748057 TO 018-A1Y1	HPN – 4748058 TO 018-A1Y2		HPN – 4748057 TO 018-A1Y3	

BOARD (HARDWARE) PART NUMBER 4748548

NOTE:

1. XXX INDICATES WHICH CMSH STORAGE CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITHOUT EXPANDED STORAGE.
2. YYY INDICATES WHICH CLP4 CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITH EXPANDED STORAGE.
3. ZZZ INDICATES WHICH CLP2 CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITH EXPANDED STORAGE.

CMSH CARDS - 1MB STORAGE

CLP2 CARDS - 2MB STORAGE

CLP4 CARDS - 4MB STORAGE

Machines other than Model 21s with serial numbers 84000 through 84299 have expanded storage.

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 8811148
16MAY84 8811253
09AUG84 8811253
10OCT84 A21797
15JAN85 A21797

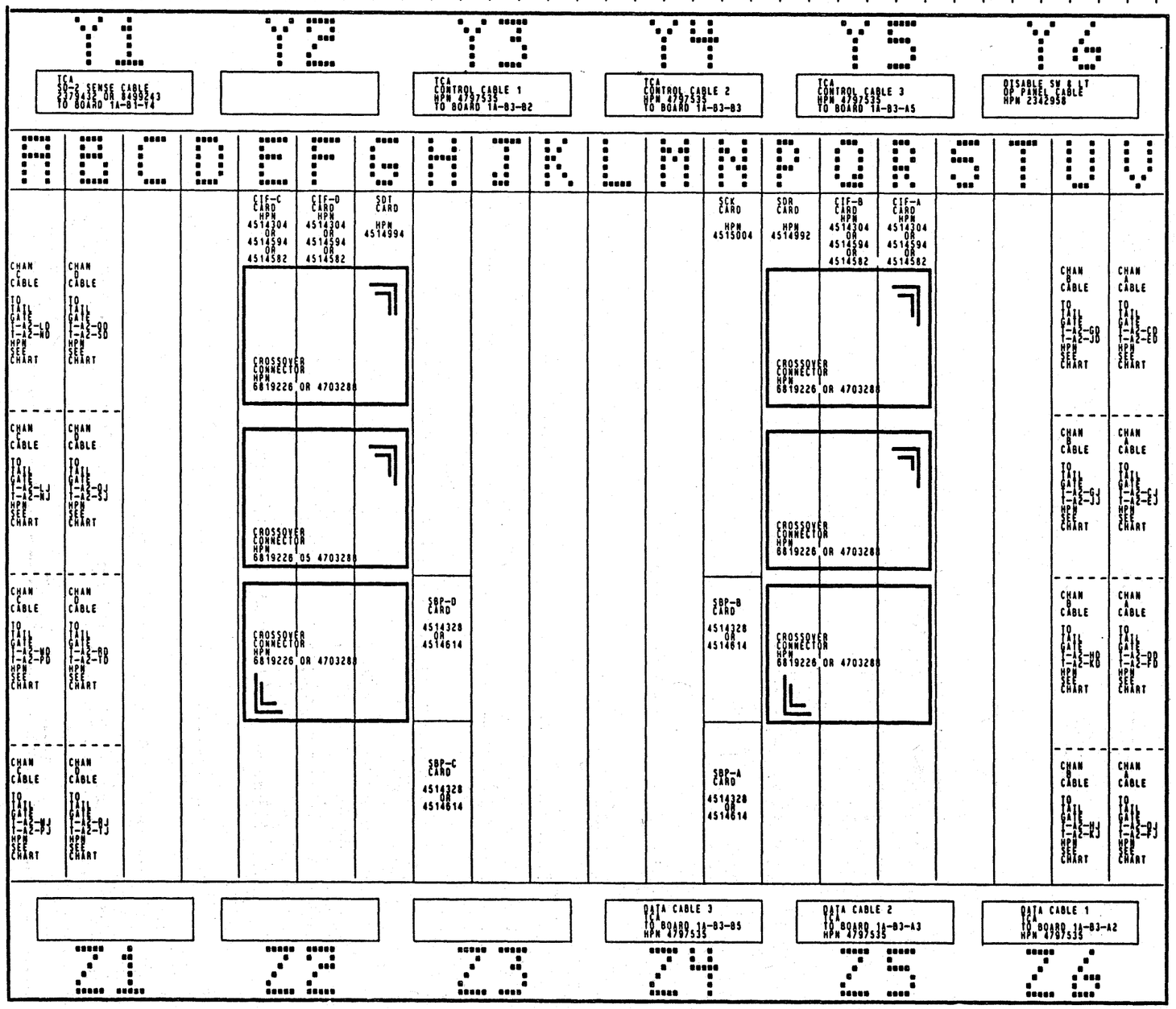
SUBSYSTEM STORAGE BOARD 1

SEQ 48021
PRINT 14FEB85 1790 PN 6315736
PAGE 8 OF 6

MACH 3880
PNAME 002
LOC 018-02

HPN
HEC A21797

IBM CORP



BOARD (HARDWARE) PART NUMBER 4513993

CHART

CHANNEL CABLE CONFIGURATION

NOTE: DO NOT COMBINE LONG AND SHORT BUS OR TAG CABLES IN THE SAME CHANNEL.

CABLE LENGTH	OLD CONFIGURATION LONG	OLD CONFIGURATION SHORT	NEW CONFIGURATION LONG	NEW CONFIGURATION SHORT
PLUG LOC	A,B/U,V	A,B ONLY	A,B/U,V	A,B ONLY
2	4797482	2314724	4797482	2314724
3	4797482	2314724	4797482	2314724
4	4797486	2314725	4797486	2314725
5	4797482	2314724	8499134	8499202
	FACTORY INSTALLED E/M			
2	4797482	2314724	4797482	2314724
3	4797482	2314724	4797482	2314724
4	2679456	2679457	2679456	2679457
5	4797482	2314724	8499134	8499202

Temp. Rework
Suitable for filming

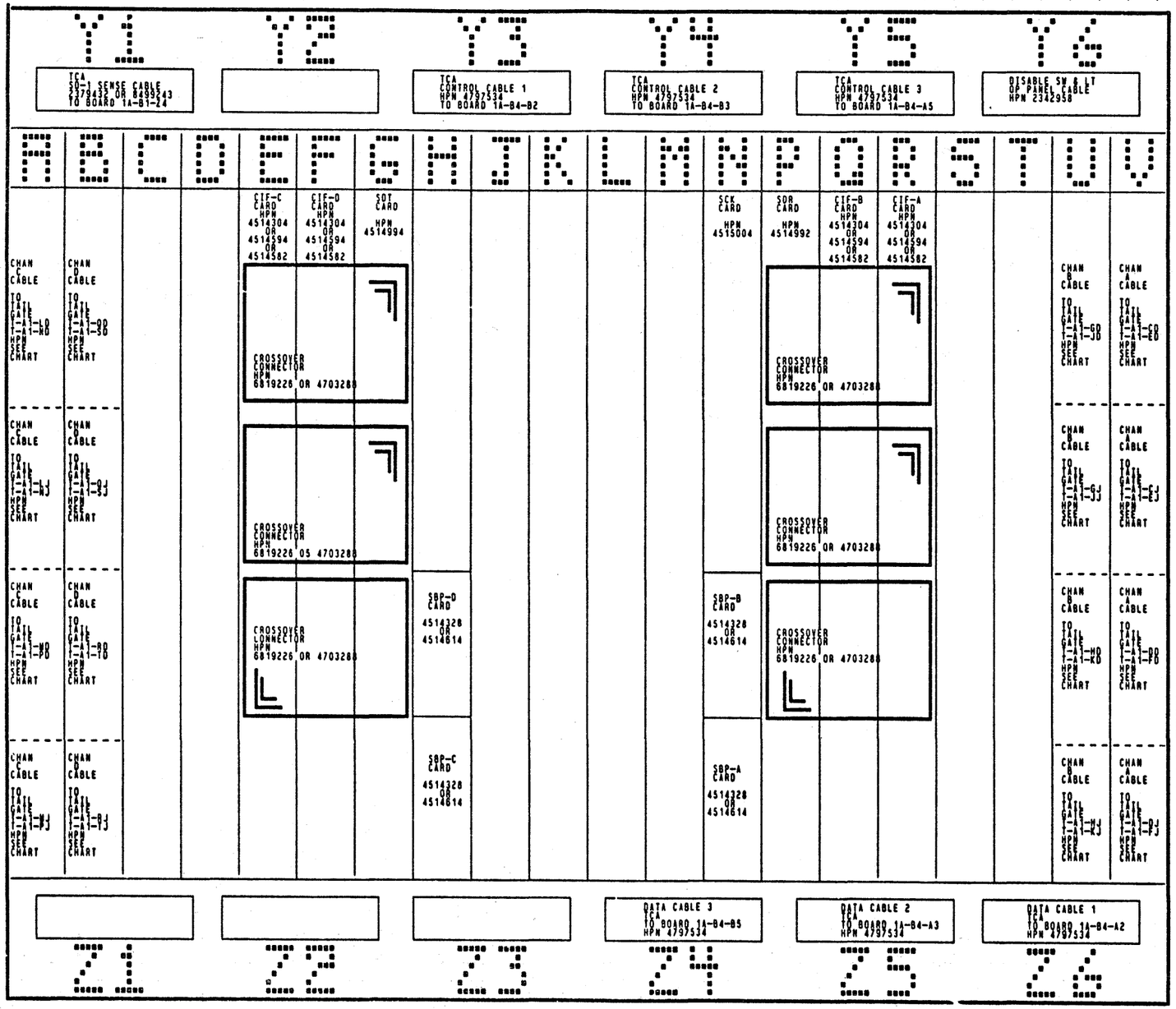
IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 881248	TWO CHANNEL ADDITIONAL
30MAY84 881253	BOARD - SD2
09AUG84 881253	
10OCT84 A21750	SEQ 49041
15JAN85 A21797	PRINT 14FEB85 1816 PM PAGE 1 OF 8

IBM CORP

MACH 3880 HPN
FRAME MOJ MEC A21797
LOC 01A-A3



BOARD (HARDWARE) PART NUMBER 4513993

CHART

CHANNEL CABLE CONFIGURATION

NOTE: DO NOT COMBINE LONG AND SHORT BUS OR TAG CABLES IN THE SAME CHANNEL.

CABLE LENGTH	OLD CONFIGURATION LONG	OLD CONFIGURATION SHORT	NEW CONFIGURATION LONG	NEW CONFIGURATION SHORT
PLUG LOC	A,B/U,V	A,B ONLY	A,B/U,V	A,B ONLY
2	4797482	2314724	4797482	2314724
3	4797482	2314724	4797482	2314724
4	4797486	2314725	4797486	2314725
5	4797482	2314724	8499134	8499202
FACTORY INSTALLED E/M				
2	4797482	2314724	4797482	2314724
3	4797482	2314724	4797482	2314724
4	2679456	2679457	2679456	2679457
5	4797482	2314724	8499134	8499202

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 881146	TWO CHANNEL ADDITIONAL
20MAY84 881525	BOARD - 501
09AUG84 881525	
10OCT84 A21750	
15JAN85 A21797	

SEQ A8041
PRINT 22MAR85 1804 PM
6315238
PAGE 2 OF 8

IBM CORP

MACH 3880 HPN
PNAME MOD HEC A21797
LOC 01A-A4XX

Y1	Y2	Y3	Y4	Y5	Y6
		POWER SUPPLY CABLE HPN 4747951 TO POWER SUPPLY AREAS AXX AND BXX	ICA SD-2 SENSE CABLE 2379432 OR 8499243 TO BOARD 01A-A3Y1		

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
POWER SUPPLY CABLE HPN 8499086 TO POWER SUPPLY		PSC CARD HPN 4514366 OR 4514392 OR 4514626		PCC CARD HPN 4514364				CSSS CARD HPN 8576732 OR 6390746 TO POWER AREA CXX CABLE (TCC) HPN 4747949					MDAC CARD HPN 4514176 OR 4514178 CROSSOVER CONNECTOR HPN 2731026	MDAR CARD HPN 4515976 OR 4515936		ORR-1 CARD HPN 4515874 OR 4515966 OR 4514250 TO SD-1 BOARD 01A-B4 Q2W CABLE (TCC) HPN 4797495	ORR-2 CARD HPN 4515874 OR 4515966 OR 4514250 TO SD-2 BOARD 01A-B3 Q2W CABLE (TCC) HPN 4797492		DISKETTE CABLE HPN 4797246
POWER SUPPLY CABLE HPN 8499086 TO POWER SUPPLY								TO POWER AREA CXX CABLE (TCC) HPN 4747949					CROSSOVER CONNECTOR HPN 2731026			TO SD-1 BOARD 01A-B4 Q2X CABLE (TCC) HPN 4797496	TO SD-2 BOARD 01A-B3 Q2X CABLE (TCC) HPN 4797493		
PCM CABLE HPN 2346593 TO POWER SUPPLY NOT PRESENT ON ALL MACHINES	CPC CABLE HPN 2346512 TO POWER SUPPLY							TCC HPN 8483399					CROSSOVER CONNECTOR HPN 2731026			TO SD-1 BOARD 01A-B4 P2W CABLE (TCC) HPN 4797497	TO SD-2 BOARD 01A-B3 P2W CABLE (TCC) HPN 4797494		MAINT DEV CONN CABLE HPN 4797259
CPC PANEL CABLE HPN 2346513 TO POWER SUPPLY								TO POWER AREA AXX AND BXX CABLE (TCC) HPN 4747951					CROSSOVER CONNECTOR HPN 2731026			SPECIAL CROSSOVER CONNECTOR HPN 4515102			VOLTAGE SENSE CABLE HPN 4747942 TO 01B-A1W3

Z1	Z2	Z3	Z4	Z5	Z6
	SD-1 SENSE CABLE 4797488 OR 8499240 TO BOARD 01A-B420	SD-2 SENSE CABLE 4797489 OR 8499241 TO BOARD 01A-B320	ICA SD-1 SENSE CABLE 2379433 OR 8499243 TO BOARD 01A-A2Y1		

BOARD (HARDWARE) PART NUMBER 4748573,8576733,6316002,6390758

NOTE: IF OPTIONAL EC 450175 IS INSTALLED, THERE WILL BE A 1.2 UFD POLARIZED CAPACITOR, PN 1840742, INSTALLED BETWEEN E4B12 (+) AND E4D08 (-).

Temp. Rework
Suitable for filming

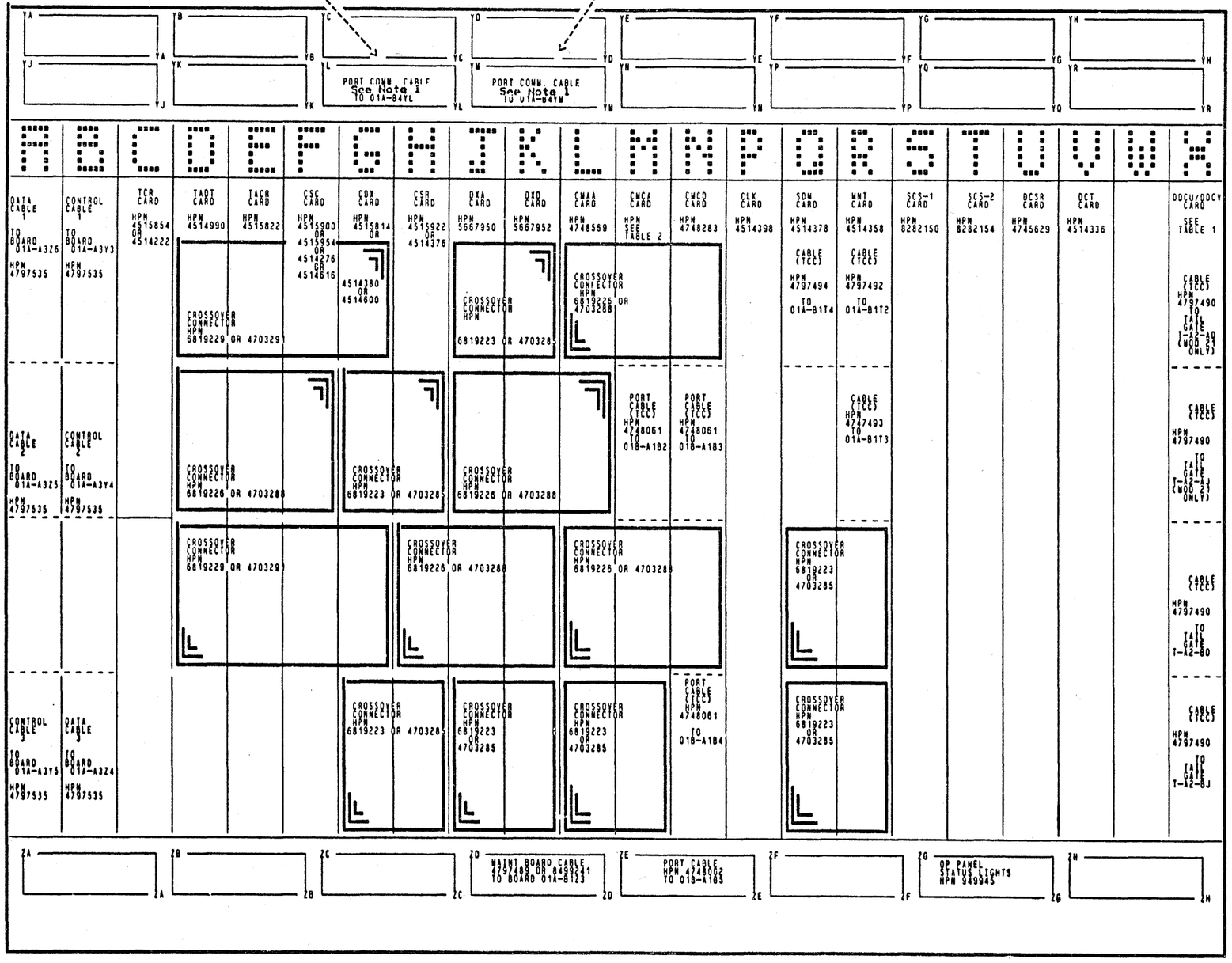
IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 881146	MAINTENANCE BOARD
30MAY84 881515	
09AUG84 A21759	SEQ 48041
10OCT84 A21759	PRINT 22MAR85 1774 PN 6315238
15JAN85 A21797	PAGE 3 OF 8

MACH 3880 HPN
PNAME MOD HEC A21797
LOC 01A-B1

IBM CORP



BOARD (HARDWARE) PART NUMBER: 6315997 OR 6315982

NOTE 1: LOCATIONS YL AND YM MUST BOTH CONTAIN THE SAME PART NUMBER. IT CAN BE EITHER 4748063 OR 6272720. DO NOT MIX PART NUMBERS.

TABLE 1

CARD LOC	MOD 21	MOD 23
X2	DDCU 4514396 4514398 4514322	DDCV 4514214 4514216 OR 4514572

TABLE 2

SD BOARD 01A-B3/B4	6315997	6315982
CMCA CARD 01A-B3/B4 M2	4748515	6315973

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

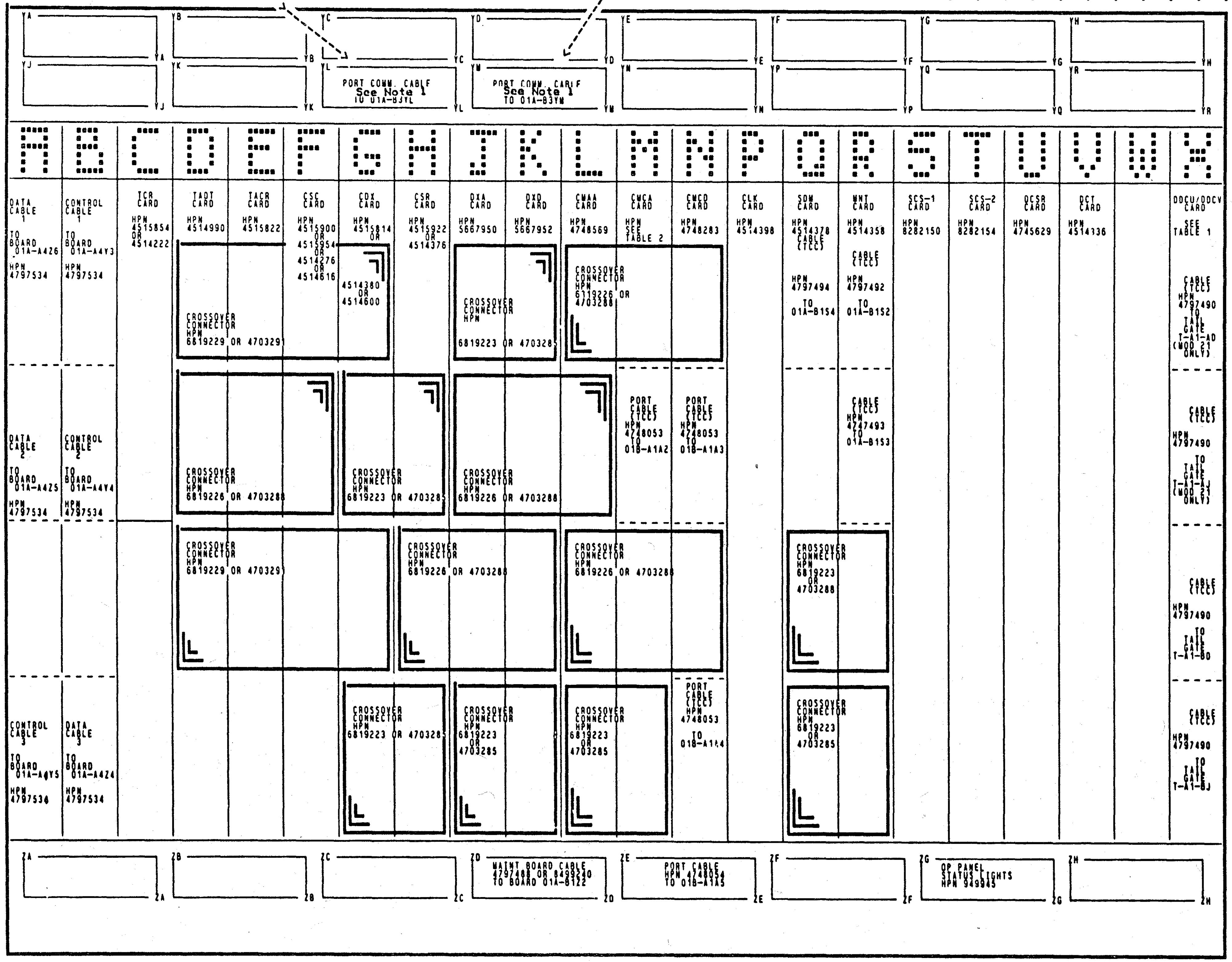
15FEB84 A01140	STORAGE DIRECTOR 2
30MAY84 A01515	3Q2 BOARD
09AUG84 A01521	
10OCT84 A21750	
15JAN85 A21797	

IEC 48041
PRINT 22MAR85 0059 PM PAGE 4 OF 8

6317238

MACH 3880 HPN
PNAME MOJ HEC A21797
LOC 01A-B3

IBM CORP



BOARD (HARDWARE) PART NUMBER: 6315997 OR 6315982

NOTE 1: LOCATIONS YL AND YM MUST BOTH CONTAIN THE SAME PART NUMBER. IT CAN BE EITHER 4748063 OR 6272720. DO NOT MIX PART NUMBERS.

TABLE 1

CARD LOC	MOD 21	MOD 23
X2	DDCU 4514198 4514228 4514322	DDCV 4514214 4514216 OR 4514572

TABLE 2

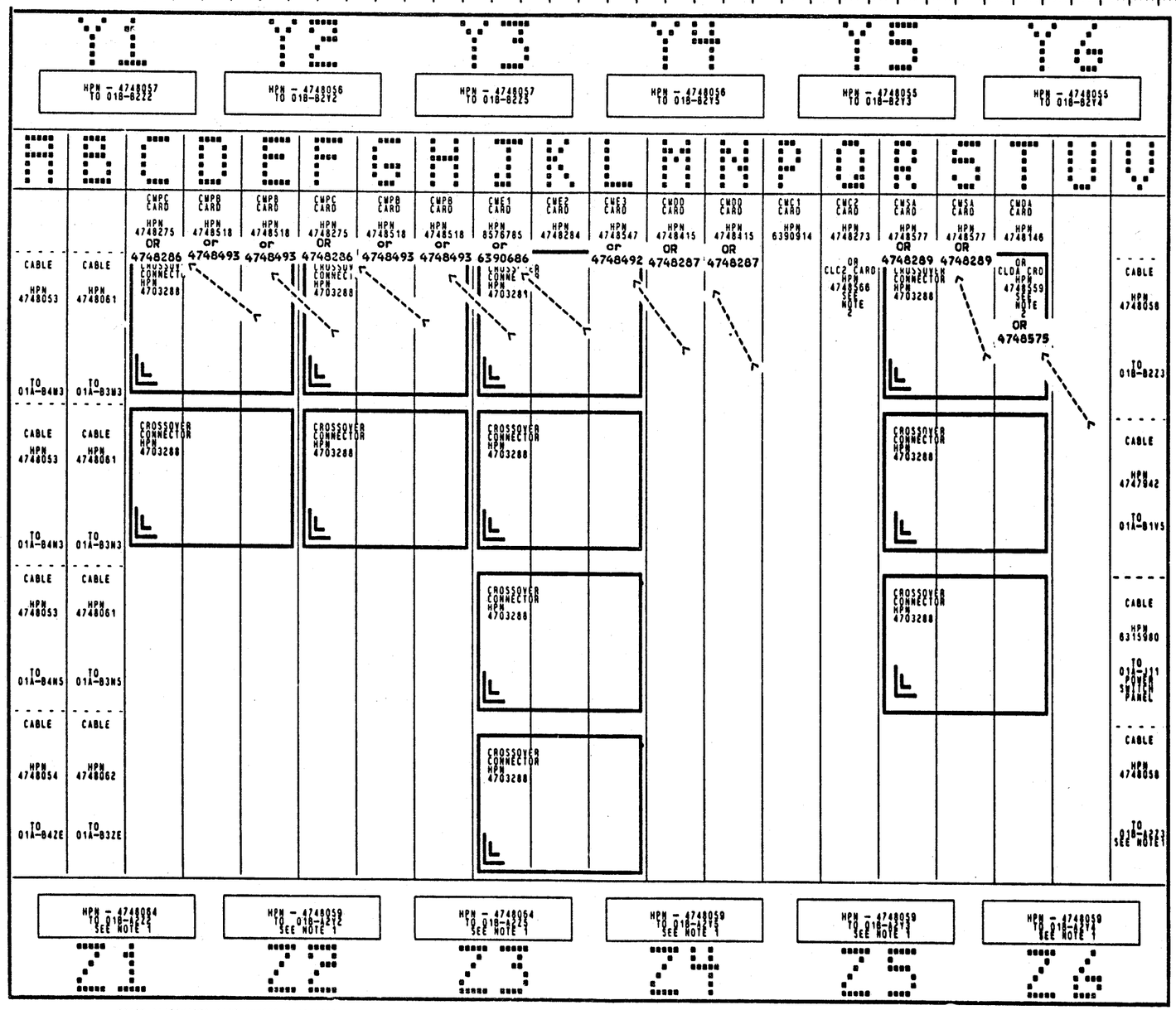
SD BOARD 01A-B3/B4	6315997	6315982
CMCA CARD 01A-B3/B4 M2	4748515	6315973

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 881146 30MAY84 881215 09AUG84 881221 10OCT84 A21750 15JAN85 A21797	STORAGE DIRECTOR 1 SD1 BOARD TCA SEQ A8041 PRINT 22MAR85 U058 PN 6315738 PAGE 5 OF 8
IBM CORP	MACH 3880 HPN PNAME MOJ HEC A21797 LOC 01A-B4



BOARD (HARDWARE) PART NUMBER 4748285

NOTE:

1. PRESENT WITH 32 MB AND NOT EXPANDED STORAGE.
2. MACHINES WITH EXPANDED STORAGE USE CLC2 AND CLDA CARDS.

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

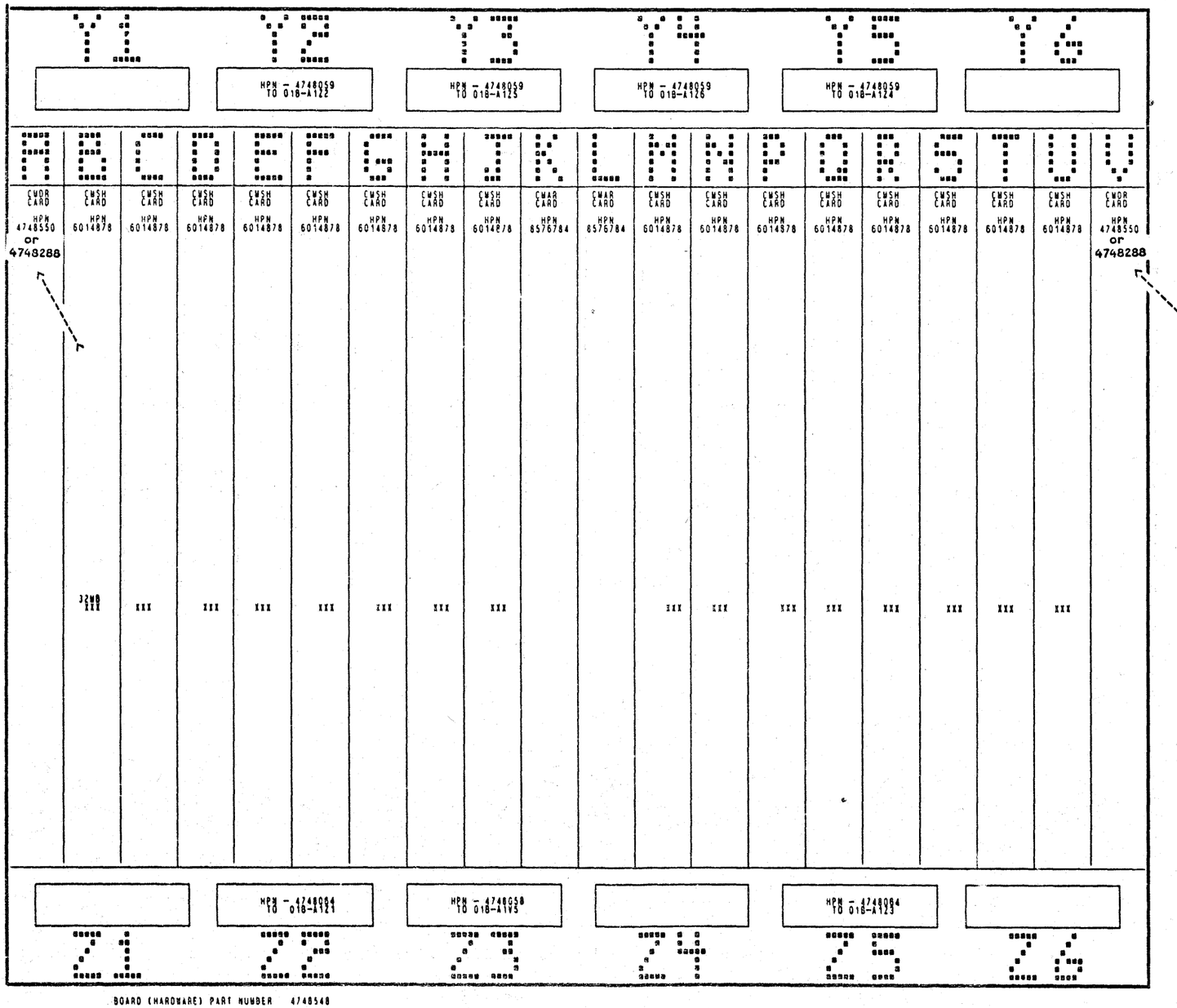
EC HISTORY

15FEB84	B81148	SUBSYSTEM STORAGE CONTROL BOARD
10MAY84	B81525	
09AUG84	B81525	
10OCT84	A21750	
15JAN85	A21797	

PRINT 1801 MARB5 1801 PN 6315230 PAGE 8 OF 8

MACH 3680 HPN
PNAME 801 REC A21797
LOC 018-A1

IBM CORP



NOTES:

XXX INDICATES WHICH CMSH STORAGE CARDS ARE PRESENT FOR EACH STORAGE SIZE — MACHINES WITHOUT EXPANDED STORAGE ONLY.

CMSH (non-expanded storage) cards are in Model 21s with serial numbers 84000 through 84299 only.

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84	881145	SUBSYSTEM STORAGE BOARD 2
30MAR84	881215	WITHOUT EXPANDED STORAGE
03AUG84	881363	
10OCT84	A21720	SEQ A9041
15JAN85	A21797	PRINT 14FEB85 1784 PM PAGE 6315238 8 OF 8

MACH 3880 HPN
PNUM 002 REC A21797
LOC 018-A2

IBM CORP

Y1	Y2	Y3	Y4	Y5	Y6
	HPN - 4748056 TO 018-A1Y2	HPN - 4748055 TO 018-A1Y5	HPN - 4748055 TO 018-A1Y6	HPN - 4748056 TO 018-A1Y4	

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
CMDR CARD HPN 4748550 or 4748288	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6867056 OR CLP2 CARD HPN 6120161	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756 OR CLP2 CARD HPN 6120161	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMAR CARD HPN 8576784 OR CLAR CARD HPN 4748494 OR 4748519	CMAR CARD HPN 8576784 OR CLAR CARD HPN 4748494 OR 4748519	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756 OR CLP2 CARD HPN 6120161	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756 OR CLP2 CARD HPN 6120161	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMSH CARD HPN 6014878 OR CLP4 CARD HPN 6860756	CMDR CARD HPN 4748550 or 4748288
	8MB XXX		XXX XXX			XXX XXX		XXX			XXX		XXX XXX			XXX XXX		XXX	
	16MB XXX	XXX	XXX YYY	XXX	XXX	XXX YYY	XXX	XXX			XXX	XXX	XXX YYY	XXX	XXX	XXX YYY	XXX	XXX	
	32MB YYY	YYY	YYY			YYY	YYY					YYY	YYY			YYY	YYY		
	48MB YYY	YYY	YYY	YYY	YYY	YYY	YYY					YYY	YYY	YYY	YYY	YYY	YYY		
	64MB YYY	YYY	YYY	YYY	YYY	YYY	YYY	YYY			YYY	YYY	YYY	YYY	YYY	YYY	YYY	YYY	

Z1	Z2	Z3	Z4	Z5	Z6
	HPN - 4748057 TO 018-A1Y1	HPN - 4748058 TO 018-A1Y2		HPN - 4748057 TO 018-A1Y3	

BOARD (HARDWARE) PART NUMBER 4748548

NOTE:

1. XXX INDICATES WHICH CMSH STORAGE CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITHOUT EXPANDED STORAGE.
2. YYY INDICATES WHICH CLP4 CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITH EXPANDED STORAGE.
3. ZZZ INDICATES WHICH CLP2 CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITH EXPANDED STORAGE.

CMSH CARDS - 1MB STORAGE
CLP2 CARDS - 2MB STORAGE
CLP4 CARDS - 4MB STORAGE

Machines other than Model 21s with serial numbers 84000 through 84299 have expanded storage.

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

15FEB84 881148	SUBSYSTEM STORAGE BOARD 1
30MAY84 881215	
09AUG84 881323	
10OCT84 A21739	SEQ 09042
15JAN85 A21797	PRINT 14FEB85 1789 PN 6315738 PAGE 8 OF 8

IBM CORP — MACH 3880 — MFG — PNAME MDJ — REC A21797 — LOC 018-B2

Y1	Y2	Y3	Y4	Y5	Y6
FCA SQ-2 SENSE CABLE 2342835 OR 8499239 TO BOARD 1A-A3-Y2		FCA CONTROL CABLE 1 HPN 2342884 TO BOARD 1A-B3-ZA	FCA CONTROL CABLE 2 HPN 2342884 TO BOARD 1A-B3-ZB	FCA CONTROL CABLE 3 HPN 2342884 TO BOARD 1A-B3-YK	DISABLE SW & LT OP PANEL CABLE HPN 2342958

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
				CIF-G CARD HPN 4514304 OR 4514594 OR	CIF-H CARD HPN 4514304 OR 4514594 OR	FADR CARD HPN 4515100						SCK CARD HPN 4515004	SDR CARD HPN 4514992	CIF-F CARD HPN 4514304 OR 4514594 OR	CIF-E CARD HPN 4514304 OR 4514594 OR				
CHAN G CABLE TO TAIL GATE Y-A2LD HPN SEE CHART	CHAN H CABLE TO TAIL GATE Y-A2QD HPN SEE CHART			4514582	4514582									4514582	4514582			CHAN F CABLE TO TAIL GATE Y-A2GO HPN SEE CHART	CHAN E CABLE TO TAIL GATE Y-A2CO HPN SEE CHART
				CROSSOVER CONNECTOR HPN 6819226 OR 4703288										CROSSOVER CONNECTOR HPN 6819226 OR 4703288					
CHAN G CABLE TO TAIL GATE Y-A2LJ HPN SEE CHART	CHAN H CABLE TO TAIL GATE Y-A2QJ HPN SEE CHART													4514582				CHAN F CABLE TO TAIL GATE Y-A2GJ HPN SEE CHART	CHAN E CABLE TO TAIL GATE Y-A2CJ HPN SEE CHART
														CROSSOVER CONNECTOR HPN 6819226 OR 4703288					
CHAN G CABLE TO TAIL GATE Y-A2MD HPN SEE CHART	CHAN H CABLE TO TAIL GATE Y-A2RD HPN SEE CHART			CROSSOVER CONNECTOR HPN 6819226 OR 4703288		SBP-H CARD 4514328 OR 4514614						SBP-F CARD 4514328 OR 4514614		CROSSOVER CONNECTOR HPN 6819226 OR 4703288					CHAN F CABLE TO TAIL GATE Y-A2HD HPN SEE CHART	CHAN E CABLE TO TAIL GATE Y-A2DD HPN SEE CHART
CHAN G CABLE TO TAIL GATE Y-A2MJ HPN SEE CHART	CHAN H CABLE TO TAIL GATE Y-A2RJ HPN SEE CHART					SBP-G CARD 4514328 OR 4514614						SBP-E CARD 4514328 OR 4514614						CHAN F CABLE TO TAIL GATE Y-A2HJ HPN SEE CHART	CHAN E CABLE TO TAIL GATE Y-A2DJ HPN SEE CHART

Z1	Z2	Z3	Z4	Z5	Z6
DATA CABLE 1 FCA TO BOARD 1A-A3-Z6 HPN 2342884	DATA CABLE 2 FCA TO BOARD 1A-A3-Z5 HPN 2342884	DATA CABLE 3 FCA TO BOARD 1A-A3-Z4 HPN 2342884	DATA CABLE 3 FCA TO BOARD 1A-B3-B5 HPN 2342884	DATA CABLE 2 FCA TO BOARD 1A-B3-A3 HPN 2342884	DATA CABLE 1 FCA TO BOARD 1A-B3-A2 HPN 2342884

BOARD (HARDWARE) PART NUMBER 4513997

CHART

CHANNEL CABLE CONFIGURATION

NOTE: DO NOT COMBINE LONG AND SHORT BUS OR TAG CABLES IN THE SAME CHANNEL.

CABLE LENGTH	LONG	SHORT	LONG	SHORT
PLUG LOC	A/B	U/V	A/B	U/V
2	2342804	2342803	2342804	2342803
3	2342804	2342803	2342804	2342803
4	2342807	2342806	2342807	2342806
5	2342804	2342803	8499204	8499203

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

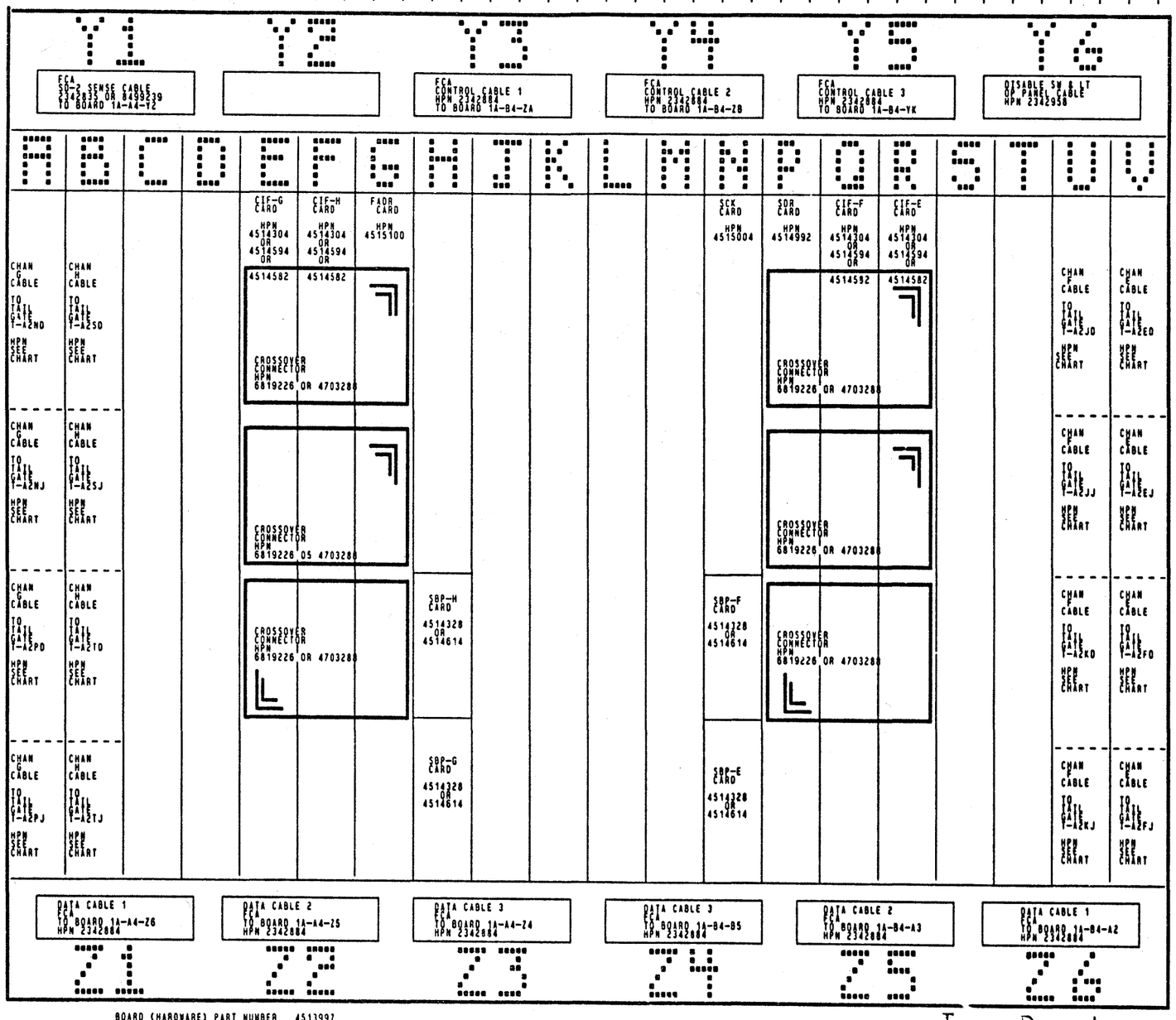
09AUG84 6813687
15JAN85 A21797

FOUR CHANNEL ADDITIONAL BOARD

SEQ 48001
PATNT 14FEB85 1608 PN 6313240
PAGE 1 OF 9

MACH J880 HPN
PNAME 4513997 MEC A21797
LOC 014-A1

ICM CORP



BOARD (HARDWARE) PART NUMBER 4513997

CHART

CHANNEL CABLE CONFIGURATION

NOTE: DO NOT COMBINE LONG AND SHORT BUS DATA CABLES IN THE SAME CHANNEL.

CABLE LENGTH / PLUG LOC	LONG A/B	SHORT U/V	LONG A/B	SHORT U/V
2	2342804	2342803	2342804	2342803
3	2342804	2342803	2342804	2342803
4	2342807	2342806	2342807	2342806
5	2342804	2342803	8499204	8499203

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

09AUG84 881723
19JUN85 A21797
FOUR CHANNEL ADDITIONAL BOARD
FCA
SEO
PATENT 4808
FEB85 1806 PN PAGE 631524O 9

IBM CORP
MACH 3840
PRIME MODEL
LOC 01A-A2
HPN
HEC A21797

Temp. Rework
Suitable for filming

Y1	Y2	Y3	Y4	Y5	Y6
SENSE CABLE 2379433 OR 8499242 TO BOARD 1A-B1-Y4	SENSE CABLE 2342835 OR 8499239 TO BOARD 1A-A1-Y1	FCA CONTROL CABLE 1 HPN 2342882 TO BOARD 1A-B3-B2	FCA CONTROL CABLE 2 HPN 2342882 TO BOARD 1A-B3-B3	FCA CONTROL CABLE 3 HPN 2342882 TO BOARD 1A-B3-A5	DISABLE SW & LT OP PANEL CABLE HPN 2342958

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
				CIF-C CARD HPN 4514304 OR 4514594 OR	CIF-D CARD HPN 4514304 OR 4514594 OR	FAST CARD HPN 4515372						SCK CARD HPN 4515004	SDR CARD HPN 4514992	CIF-B CARD HPN 4514304 OR 4514594 OR	CIF-A CARD HPN 4514304 OR 4514594 OR				
CHAN C CABLE TO TAIL GATE Y-A1-LD HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-QD HPN SEE CHART			4514582 CROSSOVER CONNECTOR HPN 6819226 OR 4703288	4514582									4514582 CROSSOVER CONNECTOR HPN 6819226 OR 4703288					CHAN B CABLE TO TAIL GATE Y-A1-GD HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-CD HPN SEE CHART
CHAN C CABLE TO TAIL GATE Y-A1-LJ HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-QJ HPN SEE CHART			CROSSOVER CONNECTOR HPN 6819226 OR 4703288										CROSSOVER CONNECTOR HPN 6819226 OR 4703288					CHAN B CABLE TO TAIL GATE Y-A1-GJ HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-CJ HPN SEE CHART
CHAN C CABLE TO TAIL GATE Y-A1-MD HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-RD HPN SEE CHART			CROSSOVER CONNECTOR HPN 6819226 OR 4703288		SBP-D CARD 4514328 OR 4514614						SBP-B CARD 4514328 OR 4514614		CROSSOVER CONNECTOR HPN 6819226 OR 4703288					CHAN B CABLE TO TAIL GATE Y-A1-HD HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-DD HPN SEE CHART
CHAN C CABLE TO TAIL GATE Y-A1-MJ HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-RJ HPN SEE CHART					SBP-C CARD 4514328 OR 4514614						SBP-A CARD 4514328 OR 4514614							CHAN B CABLE TO TAIL GATE Y-A1-HJ HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-DJ HPN SEE CHART

Z1	Z2	Z3	Z4	Z5	Z6
			DATA CABLE 3 FCA TO BOARD 1A-A1-Z3 HPN 2342884	DATA CABLE 2 FCA TO BOARD 1A-A1-Z2 HPN 2342884	DATA CABLE 1 FCA TO BOARD 1A-A1-Z1 HPN 2342884

BOARD (HARDWARE) PART NUMBER 4513993

CHART

CHANNEL CABLE CONFIGURATION

NOTE: DO NOT COMBINE LONG AND SHORT BUS OR TAG CABLES IN THE SAME CHANNEL.

CABLE LENGTH	LONG	SHORT	LONG	SHORT
PLUG LOC	A/B	U/V	A/B	U/V
2	2342805	2342804	2342805	2342804
3	2342805	2342804	2342805	2342804
4	2342808	2342807	2342808	2342807
5	2342805	2342804	8499205	8499204

IEC 11290087
IEC 11224221
IEC 11224222

EC HISTORY EC A29221

09AUG84 A21787 13JUN85 A21797 — FOUR CHANNEL ADDITIONAL BOARD FCA PRINT 14FEB85 1800 PM PAGE 6315240 3 OF 9

IBM CORP — MACH 3880 PNAME W01X LOC 01A-A3XX — HPN REC A21797

Temp. Rework
Suitable for filming

Y1	Y2	Y3	Y4	Y5	Y6
SENSE CABLE 6273433 OR 8499242 TO BOARD 1A-B1-J4	SENSE CABLE 6342833 OR 8499239 TO BOARD 1A-A2-Y1	FCA CONTROL CABLE 1 HPN 2342882 TO BOARD 1A-B4-B2	FCA CONTROL CABLE 2 HPN 2342882 TO BOARD 1A-B4-B3	FCA CONTROL CABLE 3 HPN 2342882 TO BOARD 1A-B4-A5	DISABLE SW & LT OP PANEL CABLE HPN 2342958

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
				CIF-C CARD HPN 4514304 OR 4514594 OR	CIF-D CARD HPN 4514304 OR 4514594 OR	FAST CARD HPN 4515372						SCK CARD HPN 4515004	SDR CARD HPN 4514992	CIF-B CARD HPN 4514304 OR 4514594 OR	CIF-A CARD HPN 4514304 OR 4514594 OR				
CHAN C CABLE TO TAIL GATE Y-A1-ND HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-SD HPN SEE CHART			4514582	4514582									4514582	4514582			CHAN B CABLE TO TAIL GATE Y-A1-JD HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-ED HPN SEE CHART
CHAN C CABLE TO TAIL GATE Y-A1-MJ HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-SJ HPN SEE CHART			CROSSOVER CONNECTOR HPN 6819226 OR 4703288										CROSSOVER CONNECTOR HPN 6819226 OR 4703288				CHAN B CABLE TO TAIL GATE Y-A1-JJ HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-EJ HPN SEE CHART
CHAN C CABLE TO TAIL GATE Y-A1-PD HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-TD HPN SEE CHART			CROSSOVER CONNECTOR HPN 6819226 OR 4703288		SBP-D CARD 4514614						SBP-B CARD 4514328		CROSSOVER CONNECTOR HPN 6819226 OR 4703288				CHAN B CABLE TO TAIL GATE Y-A1-KD HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-FD HPN SEE CHART
CHAN C CABLE TO TAIL GATE Y-A1-PJ HPN SEE CHART	CHAN D CABLE TO TAIL GATE Y-A1-TJ HPN SEE CHART					SBP-C CARD 4514328 OR 4514614						SBP-A CARD 4514328 OR 4514614						CHAN B CABLE TO TAIL GATE Y-A1-KJ HPN SEE CHART	CHAN A CABLE TO TAIL GATE Y-A1-FJ HPN SEE CHART

Z1	Z2	Z3	Z4	Z5	Z6
			DATA CABLE 3 FCA TO BOARD 1A-A2-Z3 HPN 2342884	DATA CABLE 2 FCA TO BOARD 1A-A2-Z2 HPN 2342884	DATA CABLE 1 FCA TO BOARD 1A-A2-Z1 HPN 2342884

BOARD (HARDWARE) PART NUMBER 4513993

CHART

CHANNEL CABLE CONFIGURATION
NOTE: DO NOT COMBINE LONG AND SHORT BUS OR TAG CABLES IN THE SAME CHANNEL.

CABLE LENGTH	LONG	SHORT	LONG	SHORT
PLUG LOC	A/B	U/V	A/B	U/V
2	2342805	2342804	2342805	2342804
3	2342805	2342804	2342805	2342804
4	2342808	2342807	2342808	2342807
5	2342805	2342804	8499205	8499204

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

93AUG04 881221 FOUR CHANNEL ADDITIONAL BOARD
93JAN05 821221 FCA

MACH 3880 HPM
FRAME MODEL
LOC 01A-A4XX
IBM CORP
HEC A21797

Y1	Y2	Y3	Y4	Y5	Y6
		POWER SUPPLY CABLE HPN 4747951 TO POWER SUPPLY AREAS AIX AND BIX	FCA SO-2 SENSE CABLE 4379433 OR 8499242 TO BOARD 01A-A311		

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
POWER SUPPLY CABLE HPN 8499086 TO POWER SUPPLY		PSC CARD HPN 4514366 OR 4514392 OR 4514626		PCC CARD HPN 4514364			FAPS CARD HPN 4515964	CSSS CARD HPN 8576732 OR 6390746 TO POWER AREA CIX CABLE (TCE) HPN 4747949					MDAC CARD HPN 4514176 OR 4514178 CROSSOVER CONNECTOR HPN 2731026	MDAR CARD HPN 4515976 OR 4515836		DRR-1 CARD HPN 4515874 OR 4515966 OR 4514250 TO SO-1 BOARD 1A-B4 Q2W CABLE (TCE) HPN 4797495	DRR-2 CARD HPN 4515874 OR 4515966 OR 4514250 TO SO-2 BOARD 1A-B3 Q2W CABLE (TCE) HPN 4797492		DISKETTE CABLE HPN 4797246
POWER SUPPLY CABLE HPN 8499086 TO POWER SUPPLY								TO POWER AREA CIX CABLE (TCE) HPN 4747949					CROSSOVER CONNECTOR HPN 2731026			TO SO-1 BOARD 1A-B4 Q2X CABLE (TCE) HPN 4797496	TO SO-2 BOARD 1A-B3 Q2X CABLE (TCE) HPN 4797493		
PCM CABLE HPN 2346593 TO POWER SUPPLY NOT PRESENT ON ALL MACHINES	CPC CABLE HPN 2346512 TO POWER SUPPLY							TCC HPN 8483399					CROSSOVER CONNECTOR HPN 2731026			TO SO-1 BOARD 1A-B4 P2W CABLE (TCE) HPN 4797497	TO SO-2 BOARD 1A-B3 P2W CABLE (TCE) HPN 4797494		MAINT DEV CONN CABLE HPN 4797259
CPC PANEL CABLE HPN 2346513 TO POWER SUPPLY								TO POWER AREA AIX AND BIX CABLE (TCE) HPN 4747951					CROSSOVER CONNECTOR HPN 2731026			SPECIAL CROSSOVER CONNECTOR HPN 4515102			VOLTAGE SENSE CABLE HPN 4747942 TO 01B-A1V3

Z1	Z2	Z3	Z4	Z5	Z6
	SO-1 SENSE CABLE 4379433 OR 8499240 TO BOARD 01A-B420	SO-2 SENSE CABLE 4379433 OR 8499241 TO BOARD 01A-B320	FCA SO-1 SENSE CABLE 4379433 OR 8499242 TO BOARD 01A-A411		

BOARD (HARDWARE) PART NUMBER 4748573.8576733.6316002.6390758

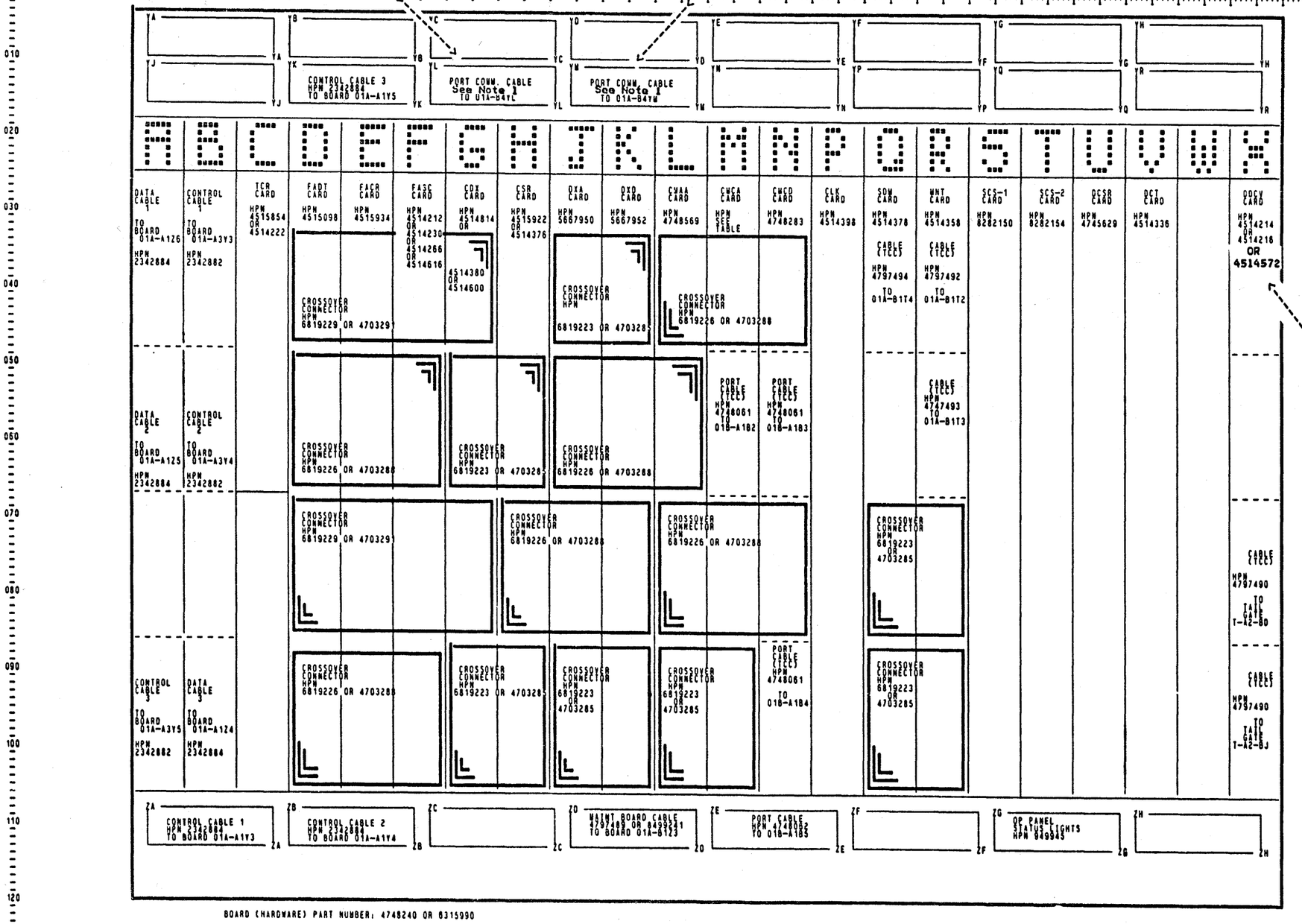
NOTE: IF OPTIONAL EC 450175 IS INSTALLED. THERE WILL BE A 1.2 UFD POLARIZED CAPACITOR, PN 7848742, INSTALLED BETWEEN E4B12 (+) AND E4D08(-).

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

09AUG84 681563 15JAN85 A21797	MAINTENANCE BOARD FCA SEQ 4B081 PRINT 21MAR85 1771 PN 6315740 PAGE 3 OF 9
	MACH 3850 MDL II PNAME BOARD LOC 01A-B1



NOTE 1: LOCATIONS YL AND YM MUST BOTH CONTAIN THE SAME PART NUMBER. IT CAN BE EITHER 4748063 OR 6272720. DO NOT MIX PART NUMBERS.

TABLE

SD BOARD 01A-B3/B4	4748240	6315990
CMCA CARD 01A-B3/B4 B2	4748515	6315973

BOARD (HARDWARE) PART NUMBER: 4748240 OR 6315990

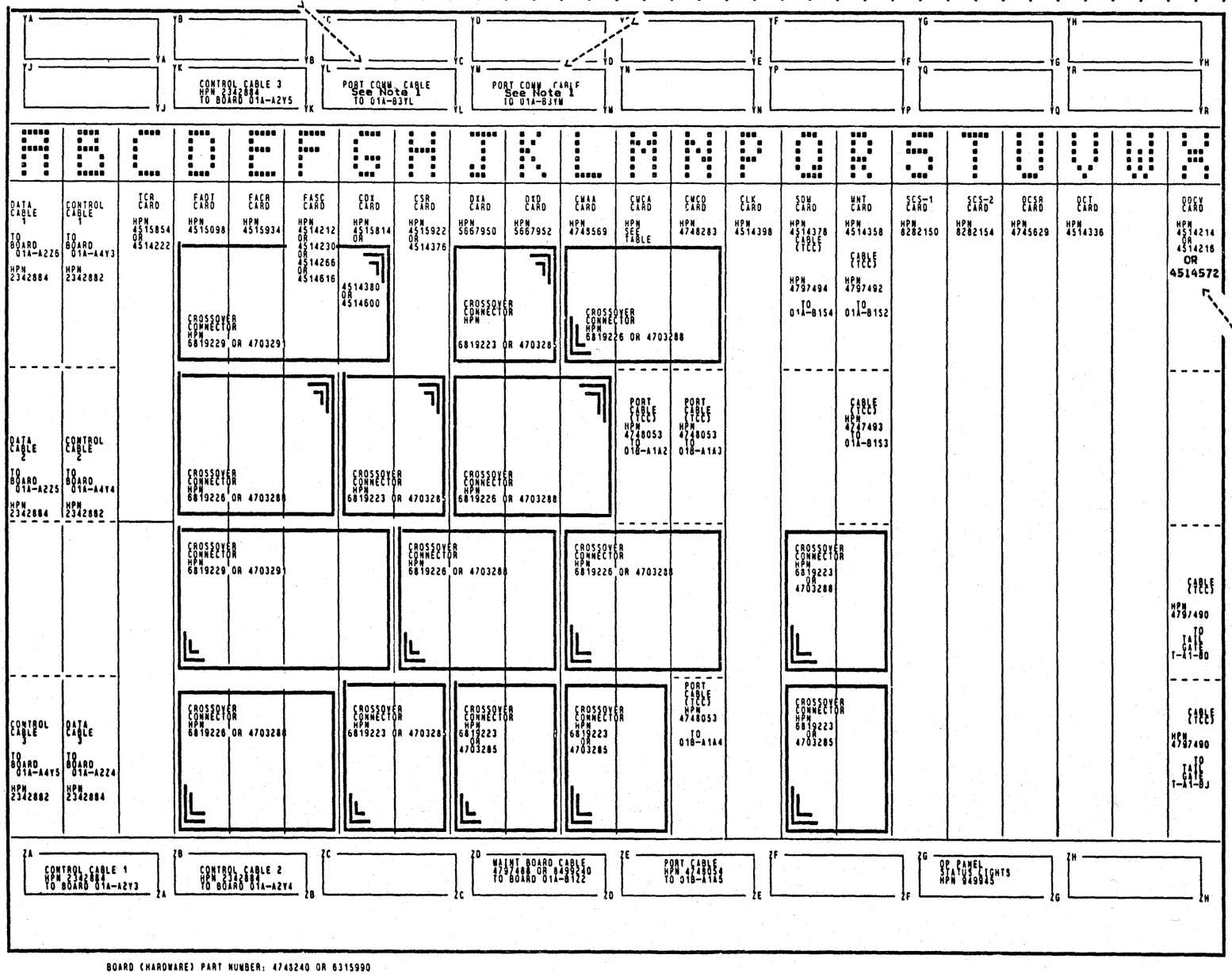
Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

09AUG84 A21323 15MAR85 A21797	STORAGE DIRECTOR 2 SCS BOARD PCB SCS A8081 PRINT 21MAR85 0067 PN 6315740 PAGE 8 OF 9
	MACH 3880 PRIME MODEL LOC 01A-B3

IBM CORP



NOTE 1: LOCATIONS YL AND YM MUST BOTH CONTAIN THE SAME PART NUMBER. IT CAN BE EITHER 4748063 OR 6272720. DO NOT MIX PART NUMBERS.

TABLE

SD BOARD 01A-B3/B4	4748240	6315990
CMCA CARD 01A-B3/B4 B2	4748515	6315973

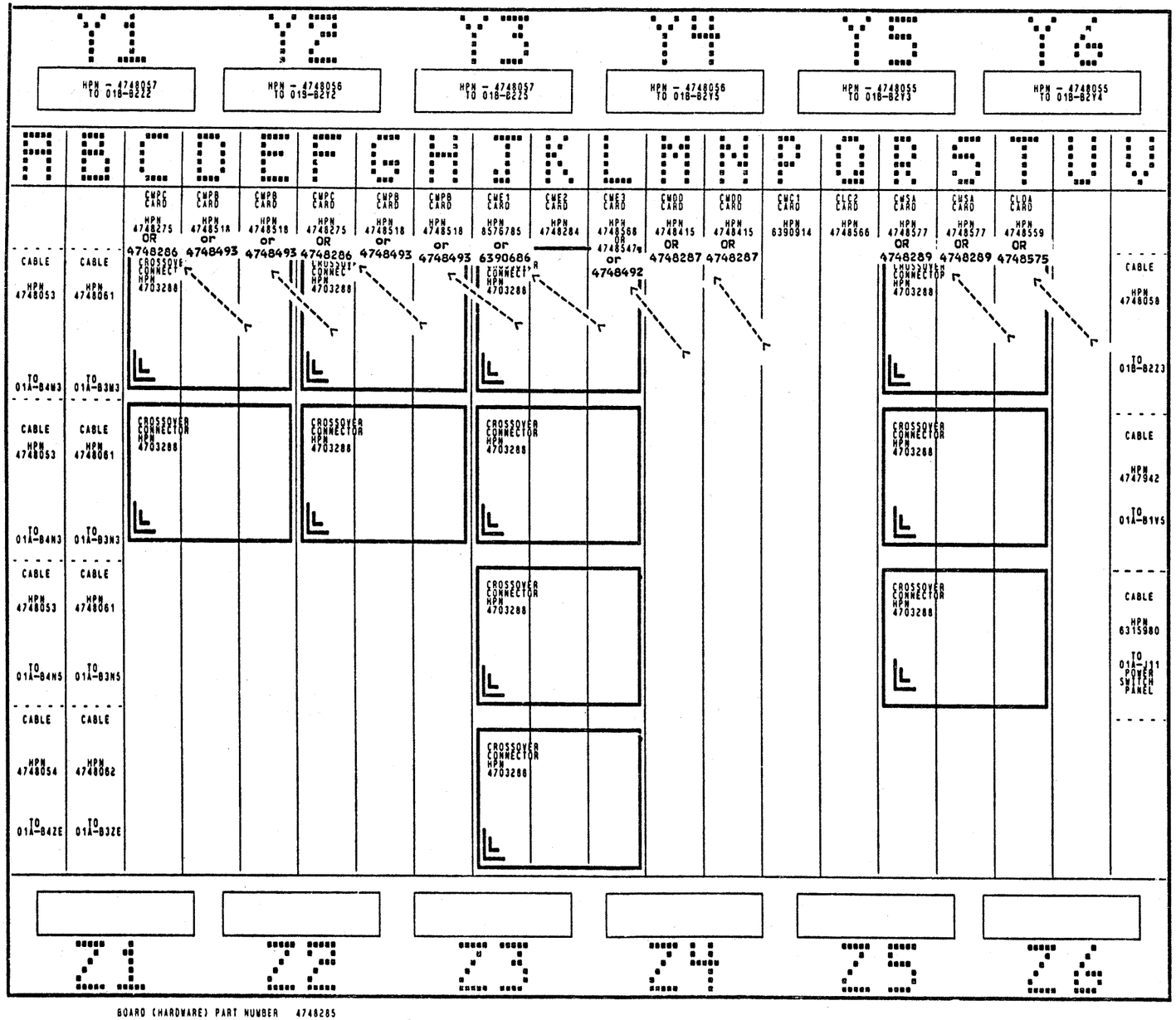
BOARD (HARDWARE) PART NUMBER: 4748240 OR 6315990

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

08AUG84 A81281 13JAN85 A21797	STORAGE DIRECTOR 1 SDT BOARD PCA PART 1808I PRINT 21JAN85 U063 PN 6315740 PAGE 9 OF 9
IBM CORP	MACH 3880 NAME MODEL LOC 01A-B4 HPN HEC A21797



BOARD (HARDWARE) PART NUMBER 4748285

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

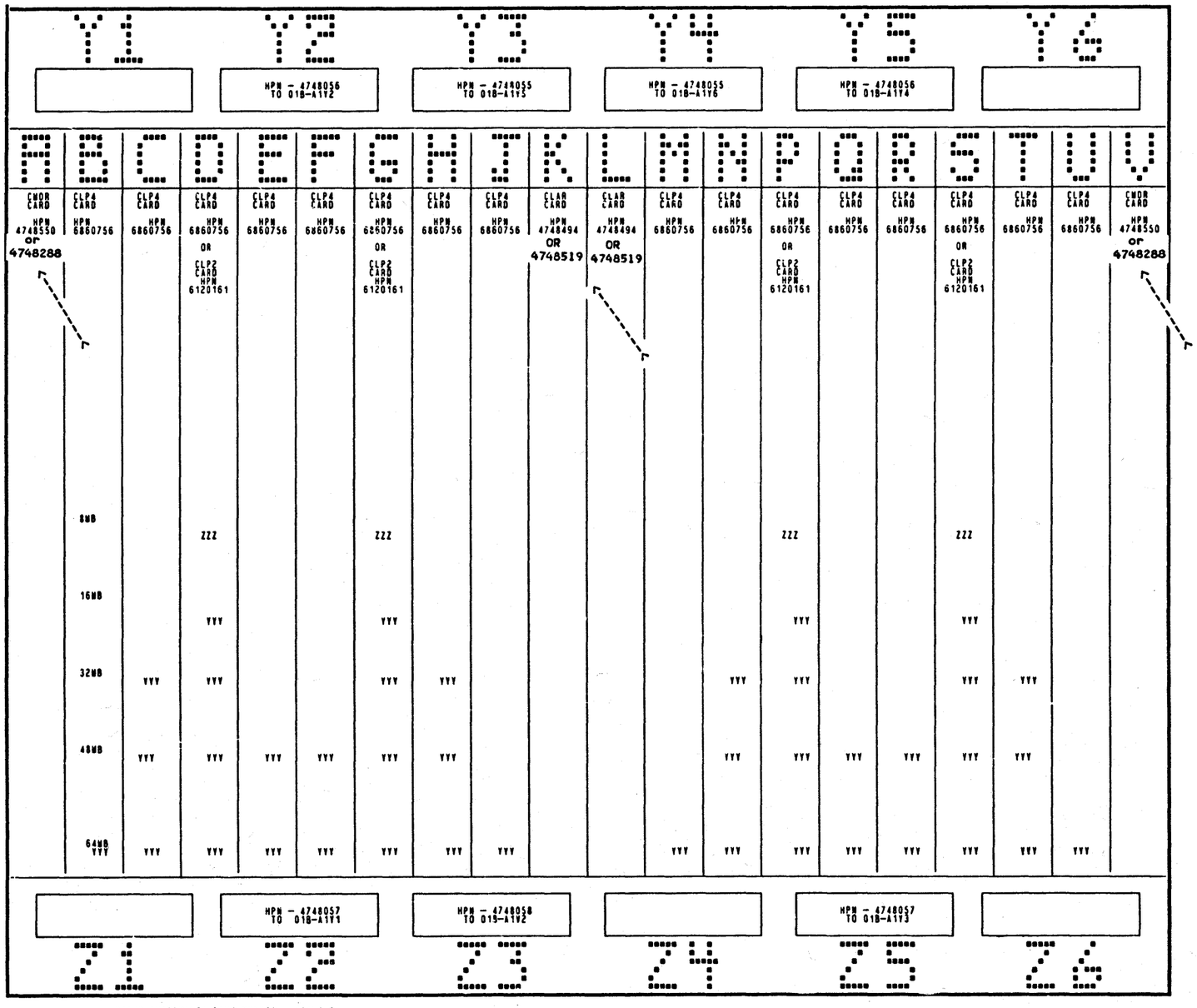
EC HISTORY
09AUG84 881251
15JAN85 A21797

SUBSYSTEM STORAGE CONTROL BOARD

SEQ A0081
PRINT 05MAR85 1804 PN 6315740 PAGE 8 OF 9

MACH 3880 HPN
PNAME MOUNT HEC A21797
LOC 01B-A1

IBM CORP



NOTE:

1. YYY INDICATES WHICH CLP4 CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITH EXPANDED STORAGE.
2. ZZZ INDICATES WHICH CLP2 CARDS ARE PRESENT FOR EACH STORAGE SIZE - MACHINES WITH EXPANDED STORAGE.

CLP2 CARDS - 2MB STORAGE

CLP4 CARDS - 4MB STORAGE

Machines other than Model 21s with serial numbers 84000 through 84299 have expanded storage.

BOARD (HARDWARE) PART NUMBER 4748548

Temp. Rework
Suitable for filming

IEC 11290087
IEC 11224221
IEC 11224222
EC A29221

EC HISTORY

09AUG84 881221
15JAN85 121797

SUBSYSTEM STORAGE BOARD 1

SEQ A9081
PRINT 14FEB85 1796 PN 6315740 PAGE 9 OF 9

MACH 3880
PHASE MOJIX
LOC 018-B2

HPN
HEC A21797

IBM CORP

BOARD SOCKET CONNECTOR B1V4 CABLE 4797259 MAINT DEVICE CONNECTOR MD

CABLE PIN NUMBERS

B02		009
B03		019
B04		021
B05		015
B06		007
B07		013
B08		025
B09		005
D02		010
D03		020
D04		011
D05		016
D06		014
D07		024
D08		020
D09		010
	FRAME GROUND	026
		027
		028

EC HISTORY

15FEB84 881146	MAINTENANCE BOARD TO MAINTENANCE DEVICE
30MAY84 881215	

SEQ XA001
PRINT 26JUL84 1359 PN 6315742
PAGE 1 OF 7

MACH 3880 HPN
PNAME MOJ HEC 881221
LOC X

IBM CORP

IBM CONFIDENTIAL until FCS

CABLES 4797488 AND 4797489

CABLES 4797534 AND 4797535 (TWO ADDED CHAN SWITCH)

CABLES 4797492 THRU 4797497

BOARD SOCKET CONNECTOR

CABLES 4797490 AND 4797491

TAIL GATE CONNECTOR

THE WIRES AT THE INPUT AND OUTPUT CONNECTORS ARE TWISTED AND WOVEN TO REDUCE ELECTICAL NOISE

BOARD SOCKET CONNECTOR

TAIL GATE CONNECTOR

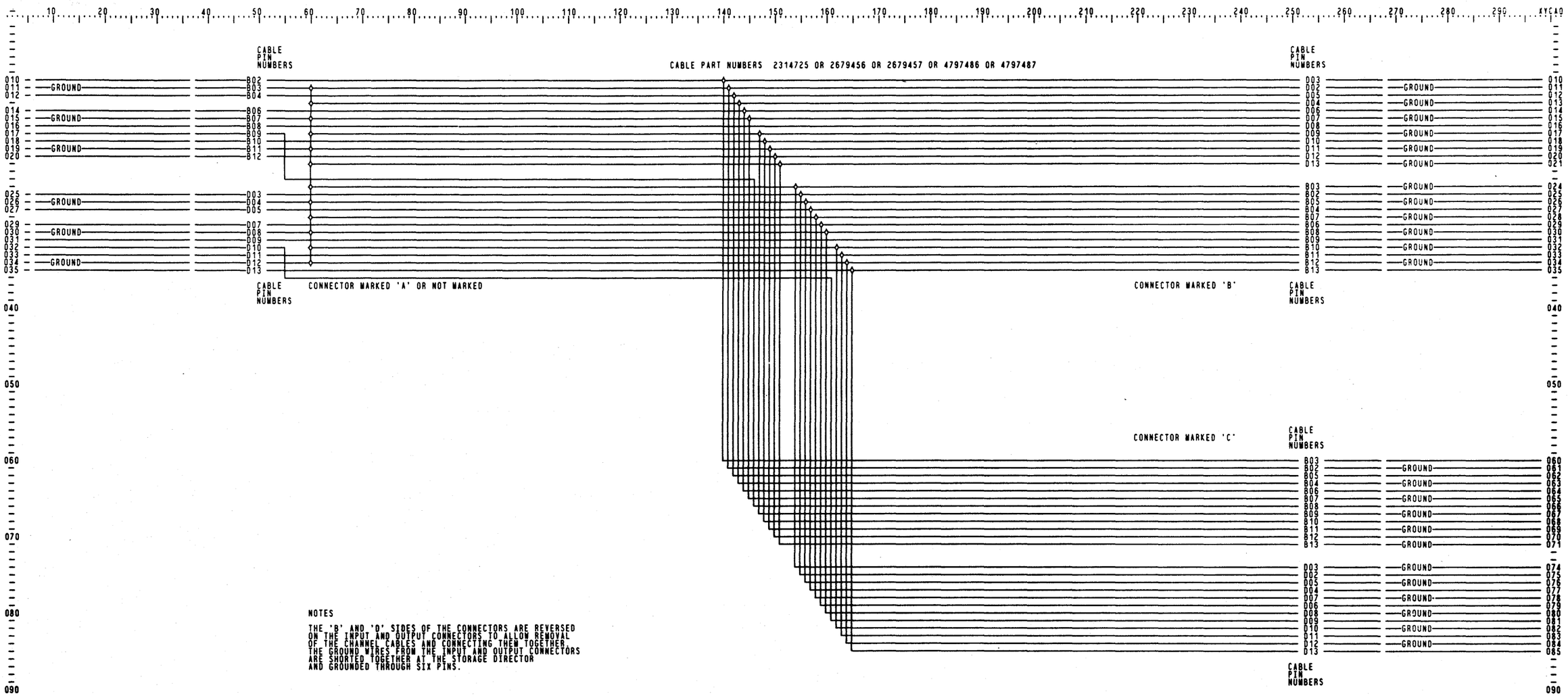
CABLE 4797529 (TWO ADDED CHAN SWITCH)

EC HISTORY

15FEB84 881146 30MAY84 881215	STORAGE DIRECTOR BOARD TO MAINTENANCE BOARD TAIL GATE TO TOP CARD CONNECTOR SEQ XA001 PRINT 26JUL84 1360 PN 6315742 PAGE 2 OF 7
MACH 3880 PNAME MOJ LOC	HPN HEC 881221 X

IBM CONFIDENTIAL until FCS

IBM CORP



NOTES

THE 'B' AND 'D' SIDES OF THE CONNECTORS ARE REVERSED ON THE INPUT AND OUTPUT CONNECTORS TO ALLOW REMOVAL OF THE CHANNEL CABLES AND CONNECTING THEM TOGETHER. THE GROUND WIRES FROM THE INPUT AND OUTPUT CONNECTORS ARE SHORTED TOGETHER AT THE STORAGE DIRECTOR AND GROUNDED THROUGH SIX PINS.

EC HISTORY

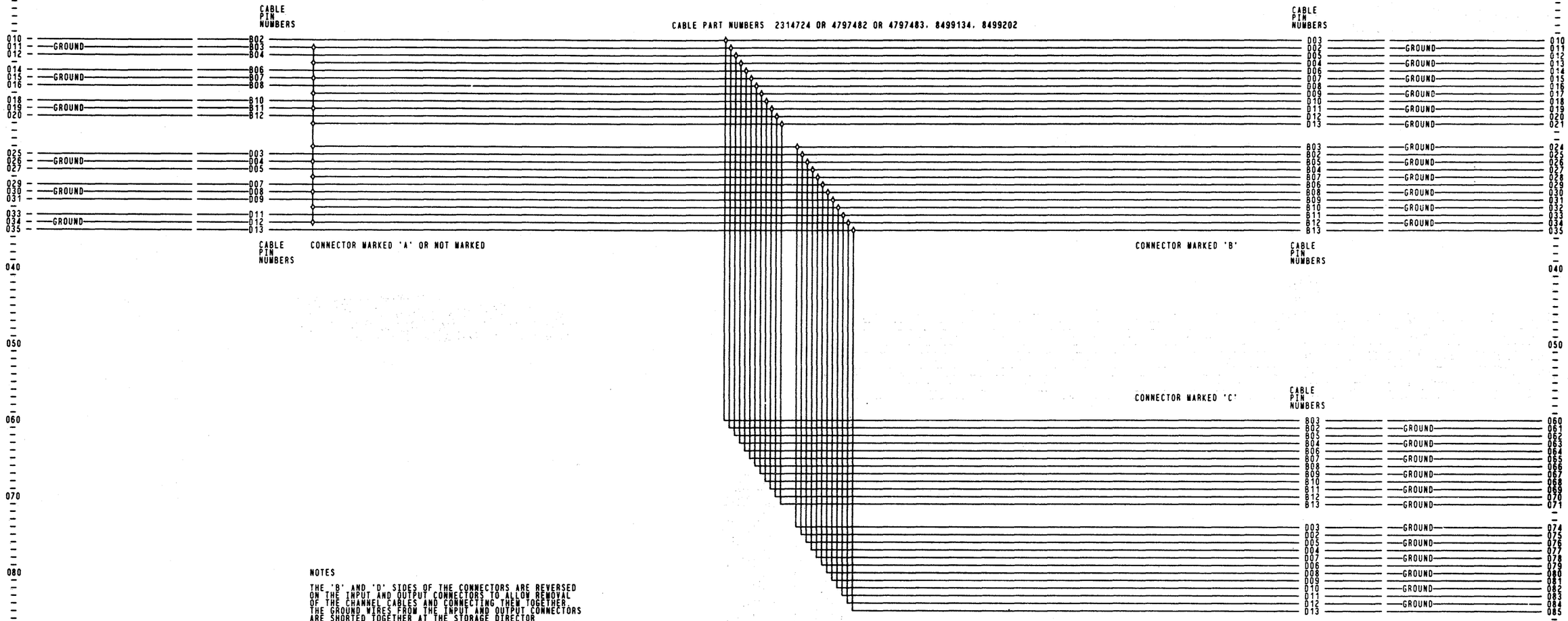
15FEB84 881146
30MAY84 881215

TAIL GATE
TO STORAGE DIRECTOR BOARDS
CHAN CBL TYPE '8'
SEQ XA001
PRINT 26JUL84 1361 PN 6315742 PAGE 3 OF 7

MACH 3880 HPN
PNAME MOJ HEC 881221
LOC X

IBM CORP

CABLE PART NUMBERS 2314724 OR 4797482 OR 4797483, 8499134, 8499202



NOTES

THE 'B' AND 'D' SIDES OF THE CONNECTORS ARE REVERSED ON THE INPUT AND OUTPUT CONNECTORS TO ALLOW REMOVAL OF THE CHANNEL CABLES AND CONNECTING THEM TOGETHER. THE GROUND WIRES FROM THE INPUT AND OUTPUT CONNECTORS ARE SHORTED TOGETHER AT THE STORAGE DIRECTOR AND GROUNDED THROUGH SIX PINS.

EC HISTORY

15FEB84 881146	TAIL GATE
30MAY84 881215	TO STORAGE DIRECTOR BOARDS
	CHAN CBL TYPE 'A'
	SEQ XA001
	PRINT 26JUL84 1360 PN 6315742 PAGE 4 OF 7

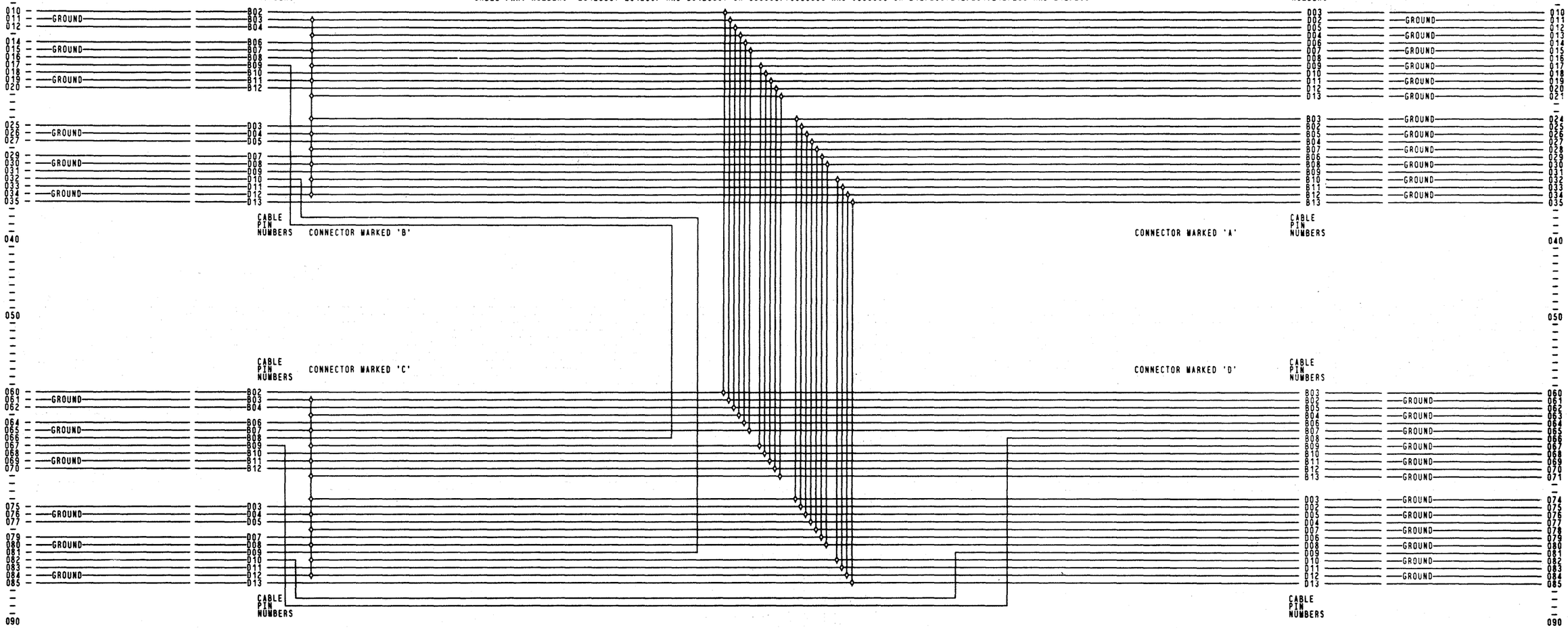
MACH 3880 HPN
PNAME WOJ HEC 881221
LOC X

IBM CONFIDENTIAL until FCS

IBM CORP

XYCB0

CABLE PART NUMBERS 2342806, 2342807 AND 2342808, OR 5668507,5668508 AND 5668509 OR 2127233,2127234,2127235 AND 2127236



NOTES

THE 'B' AND 'D' SIDES OF THE CONNECTORS ARE REVERSED ON THE INPUT AND OUTPUT CONNECTORS TO ALLOW REMOVAL OF THE CHANNEL CABLES AND CONNECTING THEM TOGETHER. THE GROUND WIRES FROM THE INPUT AND OUTPUT CONNECTORS ARE SHORTED TOGETHER AT THE STORAGE DIRECTOR AND GROUNDED THROUGH SIX PINS.

EC HISTORY

15FEB84 881146	TAIL GATE
30MAY84 881215	TO STORAGE DIRECTOR BOARDS

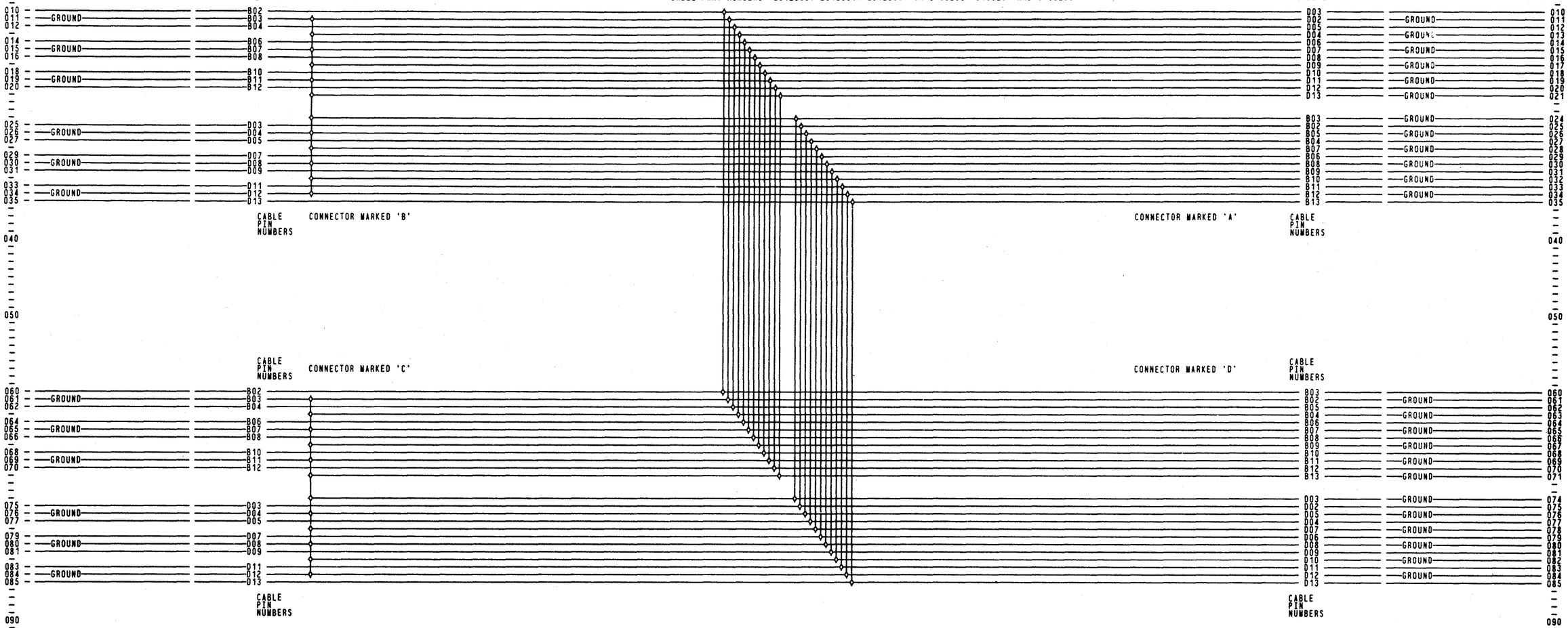
CHAN CBL TYPE 'B' FCA
SEQ XA001
PRINT 26JUL84 0841 PN 6315742
PAGE 5 OF 7

MACH 3880 HPN
PNAME MOJ HEC 881221
LOC X

IBM CORP

IBM CONFIDENTIAL until FCS

CABLE PART NUMBERS 2342803, 2342804, 2342805, OR 8499203, 8499204 AND 8499205



NOTES

THE 'B' AND 'D' SIDES OF THE CONNECTORS ARE REVERSED ON THE INPUT AND OUTPUT CONNECTORS TO ALLOW REMOVAL OF THE CHANNEL CABLES AND CONNECTING THEM TOGETHER. THE GROUND WIRES FROM THE INPUT AND OUTPUT CONNECTORS ARE SHORTED TOGETHER AT THE STORAGE DIRECTOR AND GROUNDED THROUGH SIX PINS.

EC HISTORY

15FEB84 881146 30MAY84 881215	TAIL GATE TO STORAGE DIRECTOR BOARDS CHAN CBL TYPE 'A' FCA

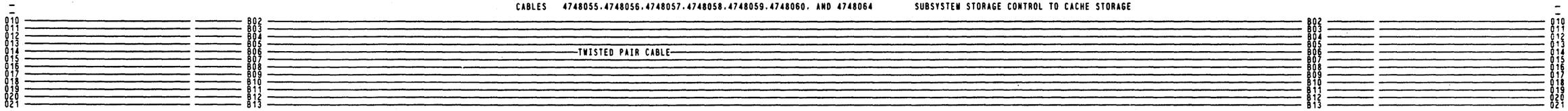
PRINT 30JUL84 1473 PN 6315742 PAGE 6 OF 7

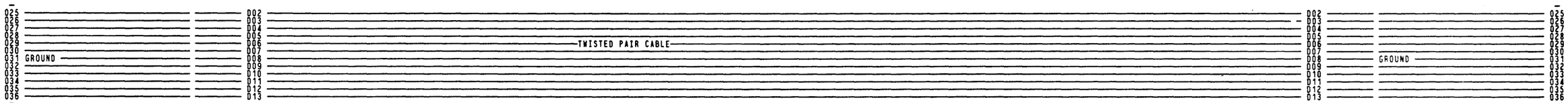
MACH	3880	HPN	
PNAME	MOJ	HEC	881221
LOC			X

IBM CORP

IBM CONFIDENTIAL until FCS

CABLES 4748055.4748056.4748057.4748058.4748059.4748060. AND 4748064 SUBSYSTEM STORAGE CONTROL TO CACHE STORAGE





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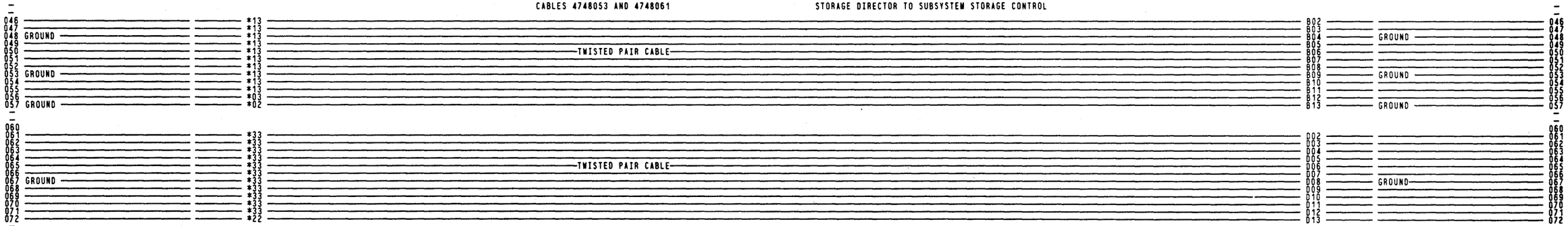
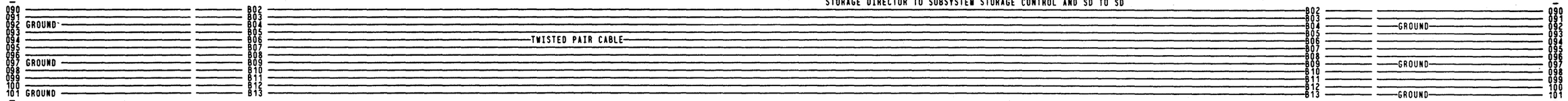
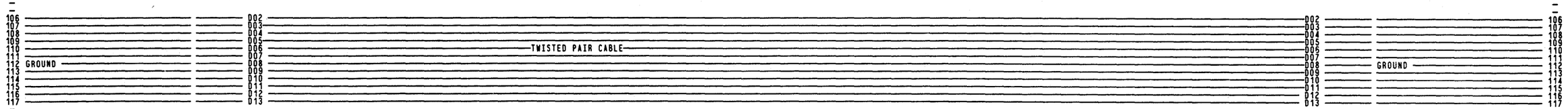


*=TCC X OR Z

CABLES 4748054.4748062 AND 4748063 STORAGE DIRECTOR TO SUBSYSTEM STORAGE CONTROL AND SD TO SD





EC HISTORY

15FEB84 881146 30MAY84 881215	SUBSYSTEM STORAGE CABLES SEQ XA001 PRINT 26JUL84 0041 PN 6315742 PAGE 7 OF 7
IBM CORP	MACH 3880 HPN PNAME MOJ HEC 881221 LOC

XZCA0

PART NUMBER 4748548

VOLTAGE DISTRIBUTION LIST
LOCATION 01B-B2/A2

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REA # 1-1290089
EC # A29221
DATE 9-24-85

EC HISTORY

15FEB84 881146 30MAY84 881215 09AUG84 881221 15JAN85 A21797	VOLTAGE DISTRIBUTION LIST SEQ YA001 PRINT 05FEB85 0019 PN 6315744 PAGE 1 OF 6
IBM CORP	MACH HPN PNAME VOLTAGE HEC A21797 LOC 1B-B2/A2 0001

PART NUMBER 4748285

VOLTAGE DISTRIBUTION LIST
LOCATION 01B-A1

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REA #1-1290089
EC #A29221
DATE 9-24-85

EC HISTORY

15FEB84 881146
30MAY84 881215
09AUG84 881223
15JAN85 A21797

VOLTAGE DISTRIBUTION LIST

SEQ YA001
PRINT 05FEB85 0021 PN 6315744
PAGE 2 OF 6

MACH HPN
PNAME VOLTAGE HEC A21797 0002
LOC 1B-A1

IBM CORP

VOLTAGE DISTRIBUTION LIST

LOCATION 01A-B4/B3

PART NUMBER	2 CH 4748282 OR 6390706 OR 6315998 OR 6315981	4 CH 4748281 OR 6390710 OR 6315997 OR 6315982	8 CH 4748240 OR 6315990

VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL
+00000	A1B08	03	+00000	B3B03	03	+00000	E1A11	03	+05000	H3B11	03	+00000	M3D08	03	+00000	R4B11	03	+00000	V2B11	03
.	A1B13	03	.	B3B07	03	.	E1D08	03	.	H3D08	03	.	M4D08	03	.	R4D08	03	.	V2D08	03
.	A1C06	03	.	B3B11	03	.	E1D13	03	.	G4B11	03	.	M5D08	03	.	R5B11	03	.	V3B11	03
.	A1C07	03	.	B3D04	03	.	E1E06	03	.	H4D08	03	.	M6D03	03	.	R5D08	03	.	V3D08	03
.	A1C11	03	.	B3D08	03	.	E1E11	03	.	H5B11	03	.	M6E03	03	.	R6A04	03	.	V4B11	03
.	A1D07	03	.	B3D12	03	.	E2B11	03	.	H5D08	03	.	N1C06	03	.	R6B02	03	.	V4D08	03
.	A1E07	03	.	B4B03	03	.	E2D08	03	.	H6C04	03	.	N1C11	03	.	R6E04	03	.	V5B11	03
.	A2B03	03	.	B4B07	03	.	E3B11	03	.	H6D02	03	.	N2D08	03	.	S1A06	03	.	V5D08	03
.	A2B07	03	.	B4B11	03	.	E3D08	03	.	J1D08	03	.	N3D08	03	.	S1A11	03	.	V6E04	03
.	A2B11	03	.	B4D04	03	.	E4B11	03	.	J1E06	03	.	N4D08	03	.	S2B11	03	.	W1A06	03
.	A2D04	03	.	B4D08	03	.	E4D08	03	.	J1E07	03	.	N5D08	03	.	S2D08	03	.	W1A07	03
.	A2D08	03	.	B4D12	03	.	E5B11	03	.	J2B11	03	.	N6A03	03	.	S3B11	03	.	W1A11	03
.	A2D12	03	.	B5B03	03	.	E5D08	03	.	J2D08	03	.	N6B03	03	.	S3D08	03	.	W1B07	03
.	A3B03	03	.	B5B07	03	.	E6A02	03	.	J3B11	03	.	N6C02	03	.	S4B11	03	.	W1C07	03
.	A3B07	03	.	B5B11	03	.	E6D04	03	.	J3D08	03	.	N6C03	03	.	S4D08	03	.	W1D07	03
.	A3B11	03	.	B5D04	03	.	E6E02	03	.	J4B11	03	.	N6D03	03	.	S5B11	03	.	W1D08	03
.	A3D04	03	.	B5D08	03	.	F1E08	03	.	J4D08	03	.	N6E03	03	.	S5D08	03	.	W1D13	03
.	A3D08	03	.	B5D12	03	.	F1E13	03	.	J5B11	03	.	P2B11	03	.	S6A02	03	.	W1E06	03
.	A3D12	03	.	B6A04	03	.	F2B11	03	.	J5D08	03	.	P2D08	03	.	T1A08	03	.	W1E07	03
.	A4B03	03	.	B6B02	03	.	F2D08	03	.	J6D04	03	.	P3B11	03	.	T1A13	03	.	W1E11	03
.	A4B07	03	.	B6E04	03	.	F3B11	03	.	J6E02	03	.	P3D08	03	.	T1B06	03	.	W2B11	03
.	A4B11	03	.	C1A06	03	.	F3D08	03	.	K1A07	03	.	P4B11	03	.	T1B11	03	.	W2D08	03
.	A4D04	03	.	C1A11	03	.	F4B11	03	.	K1B07	03	.	P4D08	03	.	T1E08	03	.	W3B11	03
.	A4D08	03	.	C2B11	03	.	F4D08	03	.	K1C07	03	.	P5B11	03	.	T1E13	03	.	W3D08	03
.	A4D12	03	.	C2D08	03	.	F5B11	03	.	K1C08	03	.	P5D08	03	.	T2B11	03	.	W4B11	03
.	A5B03	03	.	C3B11	03	.	F5D08	03	.	K1D06	03	.	P6A03	03	.	T2D08	03	.	W4D08	03
.	A5B07	03	.	C3D08	03	.	F6E04	03	.	K1D07	03	.	Q1B08	03	.	T3B11	03	.	W5B11	03
.	A5B11	03	.	C4B11	03	.	G1A06	03	.	K1D11	03	.	Q1B13	03	.	T3D08	03	.	W5D08	03
.	A5D04	03	.	C4D08	03	.	G1A11	03	.	K1E07	03	.	Q1C06	03	.	T4B11	03	.	W6A02	03
.	A4D08	03	.	C5B11	03	.	G1D08	03	.	K2B11	03	.	Q1C11	03	.	T4D08	03	.	W6D04	03
.	A5D12	03	.	C5D08	03	.	G1D13	03	.	K2D08	03	.	Q2B11	03	.	T5B11	03	.	W6E02	03
.	A6B04	03	.	C6A02	03	.	G1E06	03	.	K3B11	03	.	Q2D08	03	.	T5D08	03	.	X1A07	03
.	A6C02	03	.	D1A08	03	.	GHE11	03	.	K3D08	03	.	Q3B11	03	.	T6A04	03	.	X1B07	03
.	B1A07	03	.	D1A13	03	.	G2B11	03	.	K4B11	03	.	Q3D08	03	.	T6B02	03	.	X1C07	03
.	B1A08	03	.	D1B06	03	.	G2D08	03	.	K4D08	03	.	Q4B11	03	.	T6E04	03	.	X1C08	03
.	B1A13	03	.	D1B11	03	.	G3B11	03	.	K5B11	03	.	Q4D08	03	.	U1A06	03	.	X1C13	03
.	B1B06	03	.	D1E08	03	.	G3D08	03	.	K5D08	03	.	Q5B11	03	.	U1A11	03	.	X1D06	03
.	B1B07	03	.	D1E13	03	.	G4B11	03	.	K6C04	03	.	Q5D08	03	.	U1D08	03	.	X1D11	03
.	B1B11	03	.	D2B11	03	.	G4D08	03	.	K6D02	03	.	Q6B04	03	.	U1D13	03	.	X2B11	03
.	B1C07	03	.	D2D08	03	.	G5B11	03	.	L1A07	03	.	Q6C02	03	.	U1E06	03	.	X2D08	03
.	B1D07	03	.	D3B11	03	.	G5D08	03	.	L1B07	03	.	R1A08	03	.	U1E11	03	.	X3B11	03
.	B1E07	03	.	D3D08	03	.	G6A02	03	.	L1B08	03	.	R1A13	03	.	U2D08	03	.	X3D08	03
.	B1E08	03	.	D4B11	03	.	G6D04	03	.	L1C06	03	.	R1B06	03	.	U3D08	03	.	X4B11	03
.	B1E13	03	.	D4D08	03	.	G6E02	03	.	L2D08	03	.	R1B11	03	.	U4D08	03	.	X4D08	03
.	B2B03	03	.	D5B11	03	.	H1C08	03	.	L3D08	03	.	R1E08	03	.	U5D08	03	.	X5B11	03
.	B2B07	03	.	D5D08	03	.	H1C13	03	.	L4D08	03	.	R1E13	03	.	U6A02	03	.	X5D08	03
.	B2B11	03	.	D6A04	03	.	H1D06	03	.	L5D08	03	.	R2B11	03	.	U6D04	03	.	X6C04	03
.	B2D04	03	.	D6B02	03	.	H1D11	03	.	L6B04	03	.	R2D08	03	.	U6E02	03	.	X6D02	03
.	B2D08	03	.	D6E04	03	.	H2B11	03	.	L6C02	03	.	R3B11	03	.	V1E08	03	+01700	G1E07	03
.	B2D12	03	.	E1A06	03	.	H2D08	03	.	M2D08	03	.	R3D08	03	.	V1E13	03	.	H1A07	03

REA # 1-1290089

EC # A29221

DATE 9-24-85

EC HISTORY

15FEB84 881146 30MAY84 881215 09AUG84 881221 15JAN85 A21797	VOLTAGE DISTRIBUTION LIST SEQ YA001 PRINT 05FEB85 0020 PN 6315744 PAGE 3 OF 6

MACH
PNAME VOLTAGE HPN
LOC 1A-B4/B3 HEC A21797 0003

PART NUMBER	2 CH	4 CH	8CH
	4748282 OR 6390706 OR 6315998 OR 6315981	4748281 OR 6390710 OR 6315997 OR 6315982	4748240 OR 6315990

VOLTAGE DISTRIBUTION LIST
LOCATION 01A-B3/B4

VOLT	PIN	PL
+01700	H1B07	03
.	H1C07	03
.	L3B06	03
.	L4B06	03
.	M3B06	03
.	M4B06	03
.	N3B06	03
.	N4B06	03
+01700	R6B03	03
.	R6C03	03
.	R6D03	03
.	R6E03	03
.	S2B05	03
.	S3B09	03
.	S4B05	03
.	S5B09	03
.	T2B05	03
.	T3B09	03
.	T4B05	03
.	T5B09	03
+05000	C2B06	03
.	C2D03	03
.	C3B06	03
.	C3D03	03
.	C4B06	03
.	C4D03	03
.	C5B06	03
.	C5D03	03
.	D2B06	03
.	D2D03	03
.	D3B06	03
.	D3D03	03
.	D4B06	03
.	D4D03	03
.	D5B06	03
.	D5D03	03
.	E2B06	03
.	E2D03	03
.	E3B06	03
.	E3D03	03
.	E4B06	03
.	E4D03	03
.	E5B06	03
.	E5D03	03
.	F2B06	03
.	F2D03	03
.	F3B06	03
.	F3D03	03
.	F4B06	03
.	F4D03	03
+05000	F5B06	03
.	F5D03	03
.	G2B06	03
.	G2D03	03
.	G3B06	03
.	G3D03	03
.	G4B06	03
.	G4D03	03
.	G5B06	03
.	G5D03	03
.	H2B06	03
.	H2D03	03
.	H3B06	03
.	H3D03	03
.	H4B06	03
.	H4D03	03
.	H5B06	03
.	H5D03	03
.	J2B06	03
.	J2D03	03
.	J3B06	03
.	J3D03	03
.	J4B06	03
.	J4D03	03
.	J5B06	03
.	J5D03	03
.	J6E03	03
.	K2B06	03
.	K2D03	03
.	K3B06	03
.	K3D03	03
.	K4B06	03
.	K4D03	03
.	K5B06	03
.	K5D03	03
.	K6A03	03
.	K6B03	03
.	K6C03	03
.	K6D03	03
.	K6E03	03
.	L6A03	03
.	L6B03	03
.	M1D07	03
.	M1E07	03
.	N1A07	03
.	N1B07	03
.	N1C07	03
.	N1D07	03
.	N1E07	03
.	P1A07	03
+05000	P2B06	03
.	P2D03	03
.	P3B06	03
.	P3D03	03
.	P4B06	03
.	P4D03	03
.	P5B06	03
.	P5D03	03
.	Q2B06	03
.	Q2D03	03
.	Q3B06	03
.	Q3D03	03
.	Q4B06	03
.	Q4D03	03
.	Q5B06	03
.	Q5D03	03
.	R2B06	03
.	R2D03	03
.	R3B06	03
.	R3D03	03
.	R4B06	03
.	R4D03	03
.	R5B06	03
.	R5D03	03
.	S2B06	03
.	S2D03	03
.	S3B06	03
.	S3D03	03
.	S4B06	03
.	S4D03	03
.	S5B06	03
.	S5D03	03
.	T2B06	03
.	T2D03	03
.	T3B06	03
.	T3D03	03
.	T4B06	03
.	T4D03	03
.	T5B06	03
.	T5D03	03
.	U2D03	03
.	U3D03	03
.	U4D03	03
.	V2B06	03
.	V2D03	03
.	V3B06	03
.	V3D03	03
.	V4B06	03
.	V4D03	03
+05000	V5B06	03
.	V5D03	03
.	W2B06	03
.	W2D03	03
.	W3B06	03
.	W3D03	03
.	W4B06	03
.	W4D03	03
.	W5B06	03
.	W5D03	03
.	W6A03	03
.	W6B03	03
.	W6C03	03
.	W6D03	03
.	W6E03	03
.	X2B06	03
.	X2D03	03
.	X3B06	03
.	X3D03	03
.	X4B06	03
.	X4D03	03
.	X5B06	03
.	X5D03	03
.	X6A03	03
.	X6B03	03
.	X6C03	03
+05000	G1A07	03
.	G1B07	03
.	G1C07	03
.	G1D07	03
.	L2D03	03
.	L3D03	03
.	L4D03	03
.	L5D03	03
.	M2D03	03
.	M3D03	03
.	M4D03	03
.	M5D03	03
.	N2D03	03
.	N3D03	03
.	N4D03	03
.	N5D03	03
+06000	C4D12	03
.	C5D12	03
.	D2D12	03
.	D3D12	03
.	D4D12	03
.	D5D12	03
.	E2D12	03
.	E3D12	03
+06000	E4D12	03
.	E5D12	03
.	G6A03	03
.	G6B03	03
.	G6C03	03
.	G6D03	03
.	X2D12	03
.	X4D12	03
+07250	Q6C03	03
.	Q6D03	03
.	Q6E03	03
.	R6A03	03
.	S2D10	03
.	S2D13	03
.	S3B02	03
.	S3B04	03
.	S4D10	03
.	S4D13	03
.	S5B02	03
.	S5B04	03
.	T2D10	03
.	T2D13	03
.	T3B02	03
.	T3B04	03
.	T4D10	03
.	T4D13	03
.	T5B02	03
.	T5B04	03
+01200	T6B03	03
.	T6C03	03
.	T6D03	03
.	T6E03	03
.	U2B11	03
.	U3B11	03
.	U4B11	03
.	U5B11	03
+01500	D3B13	03
.	E3B13	03
.	G6E03	03
.	H6A03	03
.	H6B03	03
.	H6C03	03
.	X3B13	03
−05000	U2B06	03
.	U3B06	03
.	U4B06	03
.	U5B06	03
.	U6A03	03
.	U6B03	03
.	U6C03	03
−05000	U6D03	03
.	X2B09	03
.	X4B09	03

NOTES:
1. THE +7.25 OR THE +3.0 VDC IS NOT PRESENT ON THIS MODEL.
2. THERE ARE 2 +5 VDC NETS. THE SECOND NET BEGINS WITH G1A07.

REA # 1-1290089
EC # A29221
DATE 9-24-85

EC HISTORY

15FEB84 881146	VOLTAGE DISTRIBUTION LIST
30MAY84 881215	
09AUG84 881221	SEQ YA001
15JAN85 A21797	PRINT 05FEB85 0031 PN 6315744 PAGE 4 OF 6
	MACH HPN
	PNAME VOLTAGE HEC A21797
	LOC 1A-B4/B3 0004

IBM CORP
YA001

PART NUMBER 4748573.8576733.6316002.6390758

VOLTAGE DISTRIBUTION LIST
LOCATION 01A-B1

VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL
+00000	A2C02	02	+00000	E6B03	02	+00000	L4D08	02	+00000	S2D08	02	+05000	D2D03	02	-05000	P4D03	02
.	A2D08	02	.	E6C03	02	.	L5D08	02	.	S3D08	02	.	D3D03	02	.	P5D03	02
.	A3C02	02	.	E6D03	02	.	M1A12	02	.	S4D08	02	.	D4D03	02	.	Q2D03	02
.	A3D08	02	.	E6E03	02	.	M1B12	02	.	S5D08	02	.	D5D03	02	.	Q3D03	02
.	A4C02	02	.	F1A11	02	.	M1C12	02	.	T1C12	02	.	E1B12	02	.	Q4D03	02
.	A4D08	02	.	F2D08	02	.	M1D12	02	.	T1D12	02	.	E1C12	02	.	Q5D03	02
.	A5C02	02	.	F3D08	02	.	M1E11	02	.	T1E12	02	.	E1D12	02	.	Q6B03	02
.	A5D08	02	.	F4D08	02	.	M1E12	02	.	T2C02	02	.	E1E12	02	.	Q6C03	02
.	B1A12	02	.	F5D08	02	.	M2D08	02	.	T2D08	02	.	E2D03	02	.	Q6D03	02
.	B1B12	02	.	F6A02	02	.	M3D08	02	.	T3C02	02	.	E3D03	02	.	Q6E03	02
.	B1C12	02	.	F6A03	02	.	M4D08	02	.	T3D08	02	.	E4D03	02	.	R2D03	02
.	B1D12	02	.	F6B03	02	.	M5D08	02	.	T4C02	02	.	E4D03	02	.	R3D03	02
.	B1E11	02	.	F6C03	02	.	M6A03	02	.	T4D08	02	.	F1A12	02	.	R4D03	02
.	B1E12	02	.	F6D03	02	.	M6B03	02	.	T5C02	02	.	F1B12	02	.	R5D03	02
.	B2C02	02	.	G2D08	02	.	M6C03	02	.	T5D08	02	.	F1C12	02	.	R6A03	02
.	B2D08	02	.	G3D08	02	.	M6D03	02	.	T6C03	02	.	F1D12	02	.	R6B03	02
.	B3C02	02	.	G4D08	02	.	M6E02	02	.	T6D03	02	.	F2D03	02	.	R6C03	02
.	B3D08	02	.	G5D08	02	.	M6E03	02	.	T6E03	02	.	F3D03	02	.	R6D03	02
.	B4C02	02	.	H1C12	02	.	N1A12	02	.	U1A12	02	.	F4D03	02	.	S2D03	02
.	B4D08	02	.	H1D12	02	.	N1B12	02	.	U1B11	02	.	F5D03	02	.	S3D03	02
.	B5C02	02	.	H1E12	02	.	N1C12	02	.	U1B12	02	.	G2D03	02	.	S4D03	02
.	B5D08	02	.	H2D08	02	.	N2D08	02	.	U1C12	02	.	G3D03	02	.	S5D03	02
.	B6A03	02	.	H3D08	02	.	N3D08	02	.	U1D12	02	.	G4D03	02	.	T2D03	02
.	B6B03	02	.	H4D08	02	.	N4D08	02	.	U1E12	02	.	G5D03	02	.	T3D03	02
.	B6C03	02	.	H5D08	02	.	N5D08	02	.	U2C02	02	.	H2D03	02	.	T4D03	02
.	B6D03	02	.	H6C03	02	.	N6A03	02	.	U2D08	02	.	H3D03	02	.	T5D03	02
.	B6E02	02	.	H6D03	02	.	N6B03	02	.	U3C02	02	.	H4D03	02			
.	B6E03	02	.	H6E03	02	.	N6C03	02	.	U3D08	02	.	H5D03	02			
.	C1A12	02	.	J1A12	02	.	P2D08	02	.	U4C02	02	.	J2D03	02			
.	C1B12	02	.	J1B11	02	.	P3D08	02	.	U4D08	02	.	J3D03	02			
.	C1C12	02	.	J1B12	02	.	P4D08	02	.	U5C02	02	.	J4D03	02			
.	C2C02	02	.	J1C12	02	.	P5D08	02	.	U5D08	02	.	J5D03	02			
.	C2D08	02	.	J1D12	02	.	Q1B12	02	.	U6A03	02	.	K2D03	02			
.	C3C02	02	.	J1E12	02	.	Q1C12	02	.	U6B02	02	.	K3D03	02			
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.	E4D08	02	.	L2D03	02	.	R5D08	02	.	C4D03	02	.	P2D03	02			
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REA #1-1290089
EC # A29221
DATE 9-24-85

EC HISTORY

15FEB84 881146
30MAY84 881215
09AUG84 881221
15JAN85 A21797

VOLTAGE DISTRIBUTION LIST

SEQ YA001
PRINT 21MAR85 0031 PN 6315744
PAGE 5 OF 6

YA001

MACH
PNAME VOLTAGE
LOC 1A-B1
HPN
HEC A21797
0005

IBM CORP

PART NUMBER 4513993

VOLTAGE DISTRIBUTION LIST
LOCATION 01A-A4

VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL	VOLT	PIN	PL
+00000	A1E13	02	+00000	B5D04	02	+00000	F5D08	02	+00000	J6C03	02	+00000	P2B11	02	+00000	T4B11	02	+00000	V4B07	02	+05000	G5B06	02	+05000	N2B06	02	+06000	E4D12	02
.	A2B03	02	.	B5D08	02	.	F6A02	02	.	J6D03	02	.	P2D08	02	.	T4D08	02	.	V4B11	02	.	G5D03	02	.	N2D03	02	.	E5D12	02
.	A2B07	02	.	B3D12	02	.	F6D04	02	.	J6E03	02	.	P3B11	02	.	T5B11	02	.	V4D04	02	.	H2B06	02	.	N3B06	02	.	E6B03	02
.	A2B11	02	.	B6A02	02	.	F6E02	02	.	J6E04	02	.	P3D08	02	.	T5D08	02	.	V4D08	02	.	H2D03	02	.	N3D03	02	.	E6D03	02
.	A2D04	02	.	B6D04	02	.	G2B11	02	.	K1A11	02	.	P4B11	02	.	T6B04	02	.	V4D12	02	.	H3B06	02	.	N4B06	02	.	E6E03	02
.	A2D08	02	.	B6E02	02	.	G2D08	02	.	K2B11	02	.	P4D08	02	.	T6C02	02	.	V5B03	02	.	H3D03	02	.	N4D03	02	.	F2D12	02
.	A2D12	02	.	C1C13	02	.	G3B11	02	.	K2D08	02	.	P5B11	02	.	U1A13	02	.	V5B07	02	.	H4B06	02	.	N5B06	02	.	F3D12	02
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.	A3B07	02	.	C2B11	02	.	G4B11	02	.	K3D08	02	.	Q1A13	02	.	U1E13	02	.	V5D04	02	.	H5B06	02	.	P2B06	02	.	F5D12	02
.	A3B11	02	.	C2D08	02	.	G4D08	02	.	K4B11	02	.	Q1B11	02	.	U2B03	02	.	V5D08	02	.	H5D03	02	.	P2D03	02	.	H4D12	02
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.	A3D12	02	.	C4B11	02	.	H1B13	02	.	K5D08	02	.	Q2D08	02	.	U2D04	02	+05000	C2B06	02	.	J3B06	02	.	P4B06	02	.	N5D12	02
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.	A5B11	02	.	D3D08	02	.	H4B11	02	.	L5B11	02	.	Q6E04	02	.	U4B03	02	.	D2D03	02	.	K3D03	02	.	Q4D03	02	+01500	E3B13	02
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.	B3D08	02	.	E6E04	02	.	J2D08	02	.	N1D11	02	.	S3D08	02	.	V2B11	02	.	F3D03	02	.	M2B06	02	.	S5D03	02			
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.	B4B07	02	.	F1E11	02	.	J4B11	02	.	N3B11	02	.	S5B11	02	.	V2D12	02	.	F5B06	02	.	M3D03	02	.	T3B06	02			
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.	B4D04	02	.	F2D08	02	.	J5B11	02	.	N4B11	02	.	T1B13	02	.	V3B07	02	.	G2B06	02	.	M4D03	02	.	T4B06	02			
.	B4D08	02	.	F3B11	02	.	J5D08	02	.	N4D08	02	.	T1C11	02	.	V3B11	02	.	G2D03	02	.	M5B06	02	.	T4D03	02			
.	B5D12	02	.	F3D08	02	.	J6A03	02	.	N5B11	02	.	T2B11	02	.	V3D04	02	.	G3B06	02	.	M5D03	02	.	T5B06	02			
.	B5B03	02	.	F4B11	02	.	J6A04	02	.	N5D08	02	.	T2D08	02	.	V3D08	02	.	G3D03	02	.	N1A12	02	.	T5D03	02			
.	B5B07	02	.	F4D08	02	.	J6B02	02	.	N6C04	02	.	T3B11	02	.	V3D12	02	.	G4B06	02	.	N1B12	02	+06000	E2D12	02			
.	B5B11	02	.	F5B11	02	.	J6B03	02	.	N6D02	02	.	T3D08	02	.	V4B03	02	.	G4D03	02	.	N1C12	02	.	E3D12	02			

REA # 1-1290089
EC # A29221
DATE 9-24-85

EC HISTORY

15FEB84 881146 30MAY84 881215 09AUG84 881223 15JAN85 A21797	VOLTAGE DISTRIBUTION LIST SEQ YA001 PRINT 05FEB85 0032 PN 6315744 PAGE 6 OF 6

MACH IBM CORP*
PNAME VOLTAGE
LOC A2-A4
HPN
HEC A21797
0006

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3333   888   888   000
   3  8   8 8   8 0   0
  333  8888  8888  0   0
   3  8   8 8   8 0   0
3333   888   888   000
```

```
PPPP   0000   W   W  EEEEE  RRRR
P   P 0    0  W   W  E      R   R
PPPP  0    0  W W W  EEE    RRRR
P     0    0  WW WW  E      R  R
P      0000   W   W  EEEEE  R   R
```

```
L      00000   GGGGG   IIIII   CCCCC
L     0     0 G     G    I     C
L     0     0 G  GG    I     C
L     0     0 G     G    I     C
LLLLL  00000   GGGGG   IIIII   CCCCC
```

```
 6     000
6     0   0
6666  0   0
6   6 0   0
 666   000
```

```
H   H  ZZZZZ
H   H     Z
HHHHH    Z
H   H   Z
H   H  ZZZZZ
```

```
 222      2
2   2    22
    2   2 2
   2    2222
  2     2
 22222  2222
```

```
CCCCC  H   H
C      H   H
C      HHHHH
C      H   H
CCCCC  H   H
```

2 CH

P/N 6315757

SUBSYSTEM STORAGE POWER

P/N 6315753

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

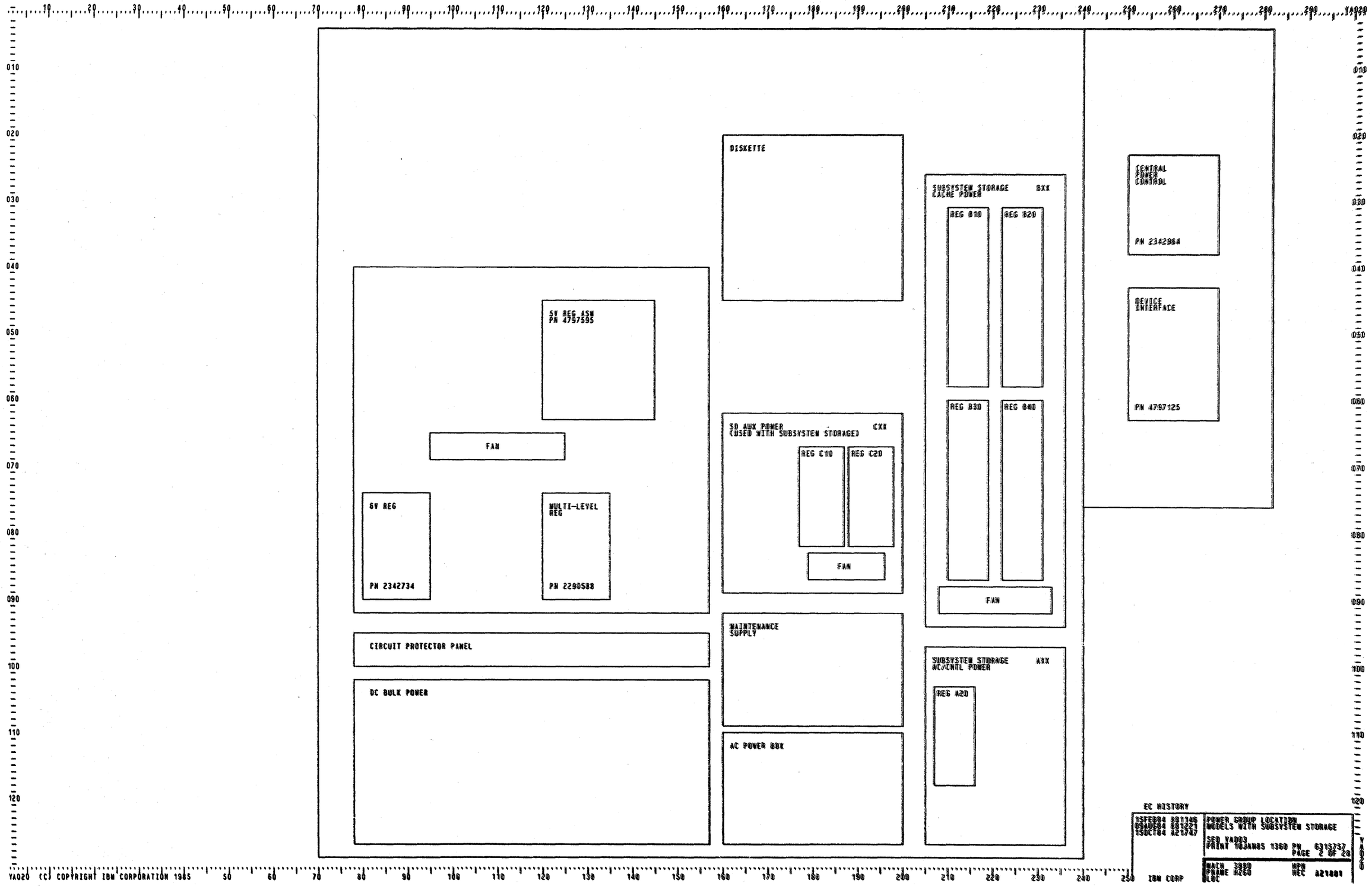
INDEX TABLE OF CONTENTS
MODELS WITH SUBSYSTEM STORAGE

SEQ YA003
PRINT 10JAN85 1609 PN 6315757
PAGE 1 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

YA010



EC HISTORY

15FEB84	821146	
09AUG84	831221	
15OCT84	A21747	

POWER GROUP LOCATION
MODELS WITH SUBSYSTEM STORAGE

SED YA003
PRINT 16JAN85 1360 PN 6315757
PAGE 2 OF 28

MACH 3880 MPN
FRAME H260 MEC A21801
LOC

IBM CORP

SLIP ON CONNECTOR

SCREW TYPE TERMINAL

"PIGGY BACK" SLIP ON CONNECTOR

RESISTOR

CAPACITOR

DIODE

ANODE

ANODE

RECTIFIER

INCANDESCENT LIGHT

LIGHT EMITTING DIODE

ANODE

FUSE

CONTACTOR

RELAY POINTS

NORMALLY OPEN

NORMALLY CLOSED

6 AMP CIRCUIT BREAKER

6AMP

3 AMP CIRCUIT PROTECTOR

3AMP

THERMAL

TRANSFORMER

230V

208V

200V

COM

SCREW TYPE CAPACITOR WITH SLIP ON CONNECTORS

CONTACTOR COIL OR RELAY COIL

CONVENIENCE OUTLET

LINE A

LINE B

GND

SWITCHES

PUSH BUTTON N/O

PUSH BUTTON N/C

SINGLE POLE TOGGLES

ROTARY 2POS

LOCAL

REMOTE

ROTARY 4POS

MOMENTARY

ON

OFF

HEAT SINK WITH DIODES WHERE HEAT SINK IS PART OF ELECTRICAL CONNECTION

BUSS BAR

BLOWER

LINE A

LINE B

GND

BLWR

BLOWER WITH SENSE

BIAS

BIAS RTN

FAN SENSE

LINE A

LINE B

GND

SENSE

BLWR

MOTOR

LINE A

LINE B

GND

MTR

DC REGULATOR

REG

+ INPUT

- INPUT

+ BIAS

- TURN ON

+ REGULATOR OUTPUT

+ REGULATOR OUTPUT RETURN

+ REGULATOR OVER CURRENT SENSE

+ REGULATOR OVER VOLTAGE SENSE

+ REG INPUT UNDER VOLT SENSE

PRINTED CIRCUIT BOARD WITH CABLE CONNECTORS

CABLE NOT ALWAYS PRESENT

CABLE MAY BE PLUGGED INTO DIFFERENT SOCKETS

FWB

SFWB

FLAT WIRE BUSS NOT ALWAYS PRESENT

—FWB— = FLAT WIRE BUSS

—SFWB— = SPLIT FLAT WIRE BUSS

+ SIGN NEAR A CAPACITOR INDICATES POLARITY

NUMBERS NEXT TO SLIP ON CONNECTORS, SCREW TYPE TERMINALS, AND RELAY POINTS INDICATE POSITION.

ALPHA/NUMERIC CHARACTERS IN THE LINE INDICATE ACTUAL PIN DESIGNATIONS ON RELAYS, SWITCHES, CIRCUIT PROTECTORS, ETC.

COMPONENTS WITH DESIGNATION 1XX FOUND ON YA137,YA181 AND YB180
2XX FOUND ON YA131
3XX FOUND ON YA121
4XX FOUND ON YA111 AND YA115
5XX FOUND ON YA171
7XX FOUND ON YA161 AND YA163
8XX FOUND ON YA191
AXX FOUND ON YC200,YC300,YC400,YC500,YC900
BXX FOUND ON YC320,YC600,YC620,YC700,YC720
CXX FOUND ON YC800,YC820,YC830,YC900

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

SYMBOLS USED IN POWER DIAGRAMS
MODELS WITH SUBSYSTEM STORAGE

SEQ YA003
PRINT 10JAN85 1800 PN 6315757
PAGE 3 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC

YA100

IBM CORP

NOTE 1 : CP406 AUX CONTACT IS PRESENT ONLY FOR 50HZ. NOT JAPAN.

NOTE 2 FOR DUAL FRAME CONFIGURATION, THE UE SWITCH SW501 IS WIRED AS SHOWN BELOW.

NOTE 3 THIS DIODE NOT INSTALLED ON SOME EARLIER MACHINES.

NOTE 4 MAY BE REMOVED ON SOME MACHINES.

+ 24V BOOTSTRAP

+ 24V DC

CP401

SAFETY INTLK

CP406 AUX

NOTE 1

SW501 UE

NOTE 2

R504

L502 PWR SEQ COMP LED

3880 PWR SEQ. COMPL.

K703

K704

SWITCH IN THE OTHER 3880

K702-1

K701-1

K701-2

SW105 CE DEV PWR SEQ

DIS

CR705

CR704

NOTE 3

K810

K810-2

SW106 POWER SELECT

HOST HOLD JUMPER

SW502 POWER ON

MAINT PWR ON

PICK

JUMPER

K805-1

K402

K404

K401

L503 POWER ON LED

SW105 CE DEV PWR SEQ

K702

K701

SW502 POWER OFF

E2D04 – PICK K402

E2B10 – START DEV SEQ TO SW 105

E2J02 – HOLD MAINTENANCE POWER.

E2D11 + 24VDC RTN TO START DEV SEQ.

E2605 + 24VDC RTN TO HOLD MAINT PWR.

+ 24V RTN

12V REG

095 – TURN ON 12V REG — E2B12

6V REG

105 – TURN ON 6V REG — E2G03

120 + 5V ANY POWER FAILURE

POWER CHECK LED

125 – ANY POWER FAILURE PRESENT — E2P09

SW101

SW102

SW103 DC PWR ON/OFF

SW106 POWER SELECT

PS1

BD A3

BD B3

NOTE 4

E2P05 + SWITCH 101 SD1

E2P04 + SWITCH 102 SD2

E2W04 + POWER DOWN SEQUENCE.

E2W07 + RTN FROM POWER ON SW 103 .

E2P07 + RTN FROM POWER OFF SW 103 .

E2W05– + RTN FROM PWR SEL SW 106 10D .

C2D13 + BD B1 CP CHAIN.

C2G05 + FROM PWR STACK TO CP CHAIN.

C2D12 + FROM BD B3 THERMAL TO SENSE

E2B07 + FROM BD B3 THERMAL TO CTRL

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

+ 24V SCHEMATIC
22 CARD SD

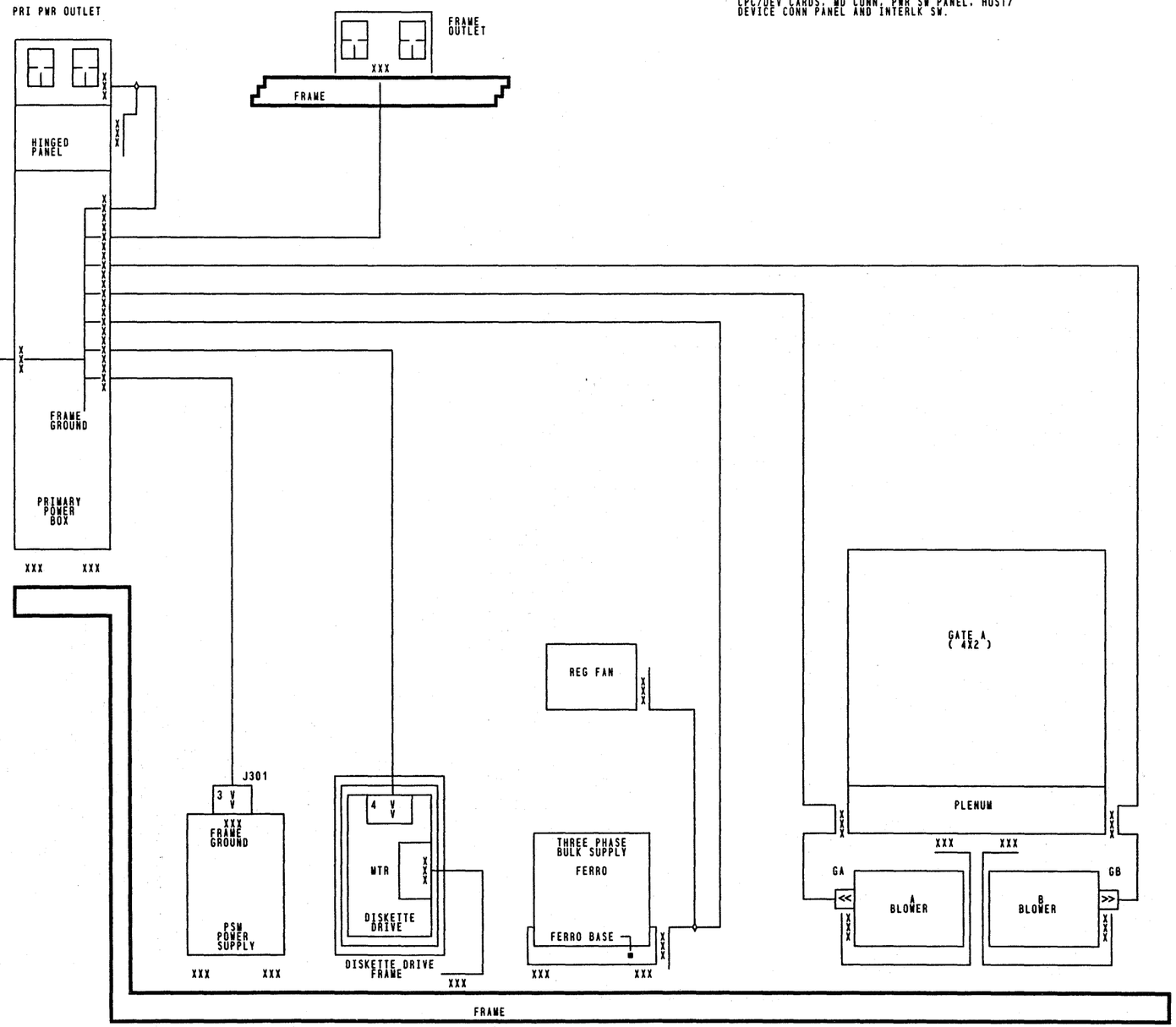
SEQ YA003
PRINT 10JAN85 1597 PN 6315757
PAGE 4 OF 28

MACH 3880 HPN
PNAME H280 HEC A21801
LOC

IBM CORP

NOTES:

1. XXX DENOTES EXTERNAL STAR WASHER.
2. THE FOLLOWING ASM'S DO NOT REQUIRE SAFETY GROUNDING: BULK, CP PANEL, REGULATORS, OP PANEL, CPC/DEV CARDS, MD CONN, PWR SW PANEL, HOST/ DEVICE CONN PANEL AND INTERLK SW.



EC HISTORY

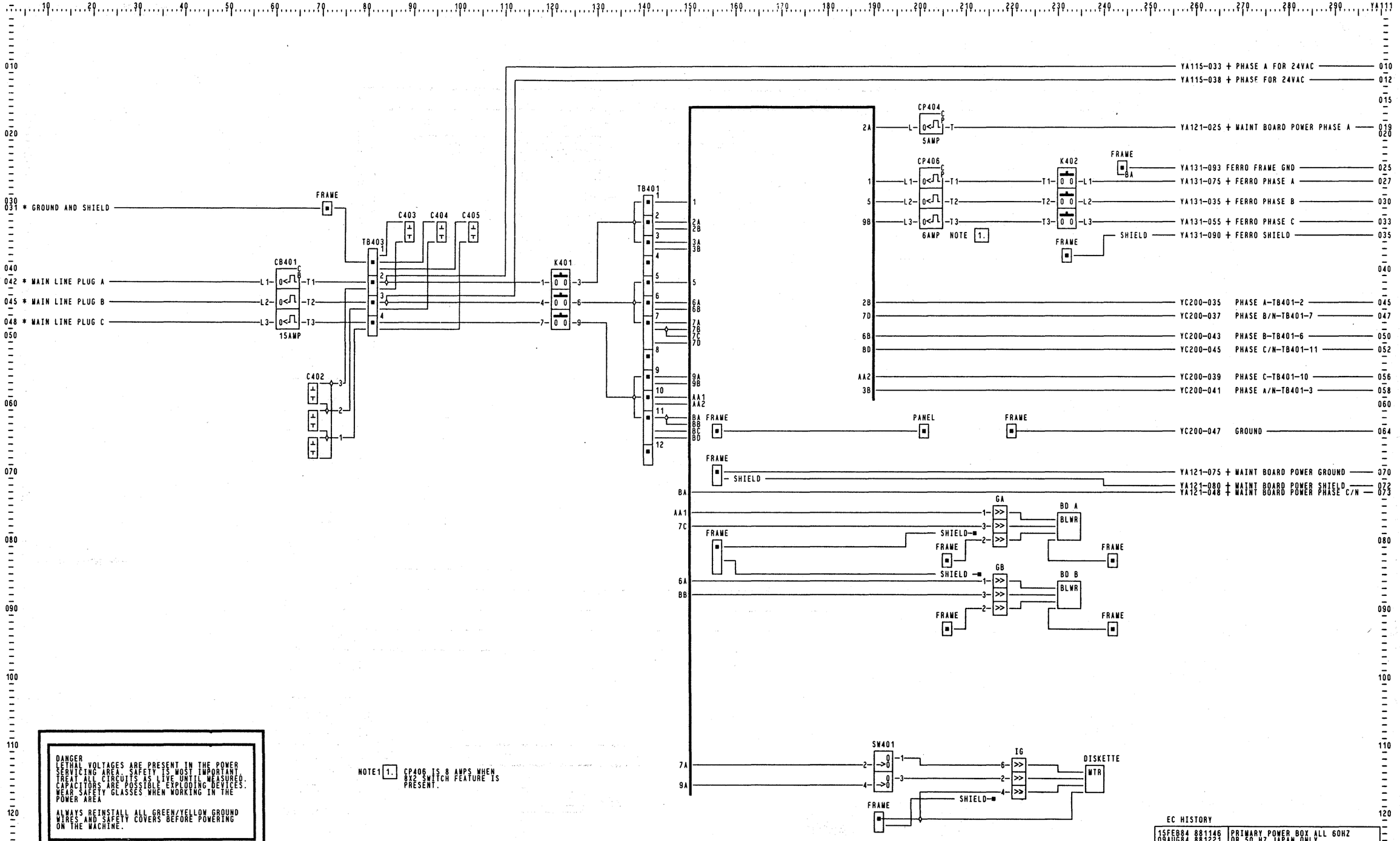
15FEB84 881146	BLOCK DIAGRAM
09AUG84 881221	GROUNDING SCHEMATIC
15OCT84 A21747	

SEQ YA003
PRINT 10JAN85 0038 PN 6315757
PAGE 5 OF 28

MACH HPN
FRAME HZ60 HEC A21801
LOC

IBM CORP

YA110



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

NOTE1 1. CP406 IS 8 AMPS WHEN 812 SWITCH FEATURE IS PRESENT.

EC HISTORY

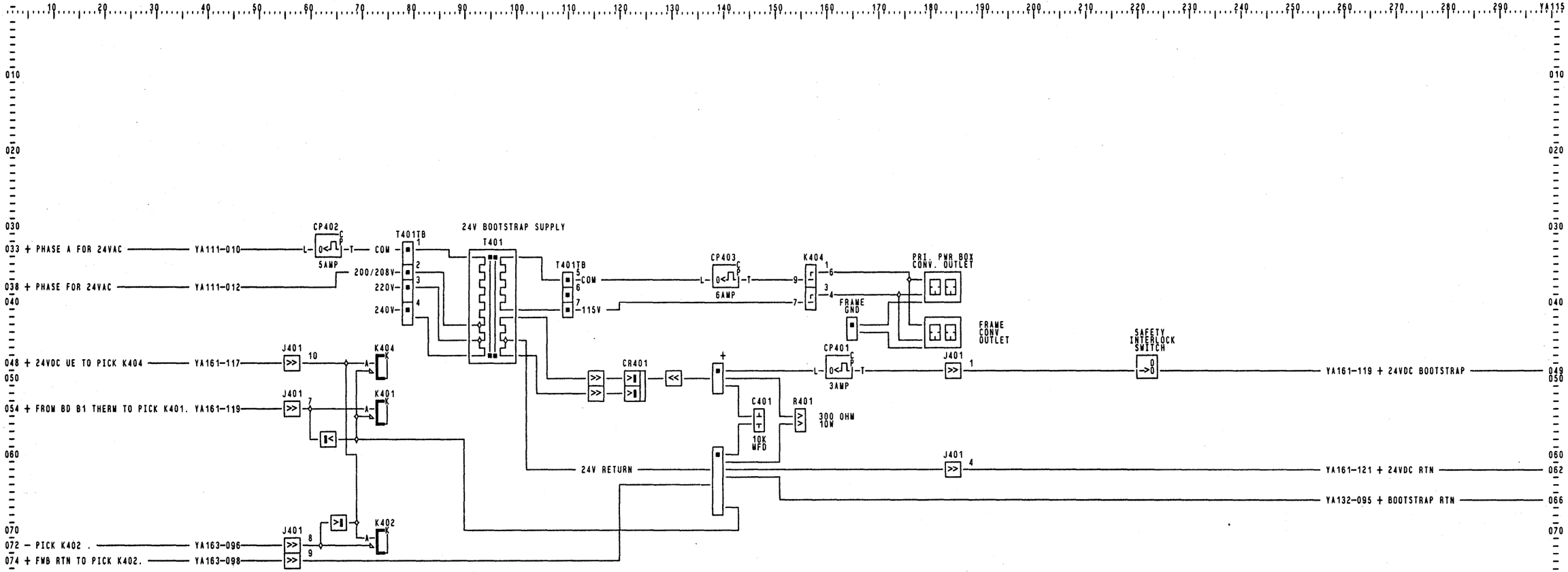
15FEB84 881146	PRIMARY POWER BOX ALL 60HZ
09AUG84 881221	OR 50 HZ JAPAN ONLY
150CT84 A21747	MODELS WITH SUBSYSTEM STORAGE

SEQ YA003
PRINT 10JAN85 1106 PN 6315757
PAGE 6 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

YA111



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

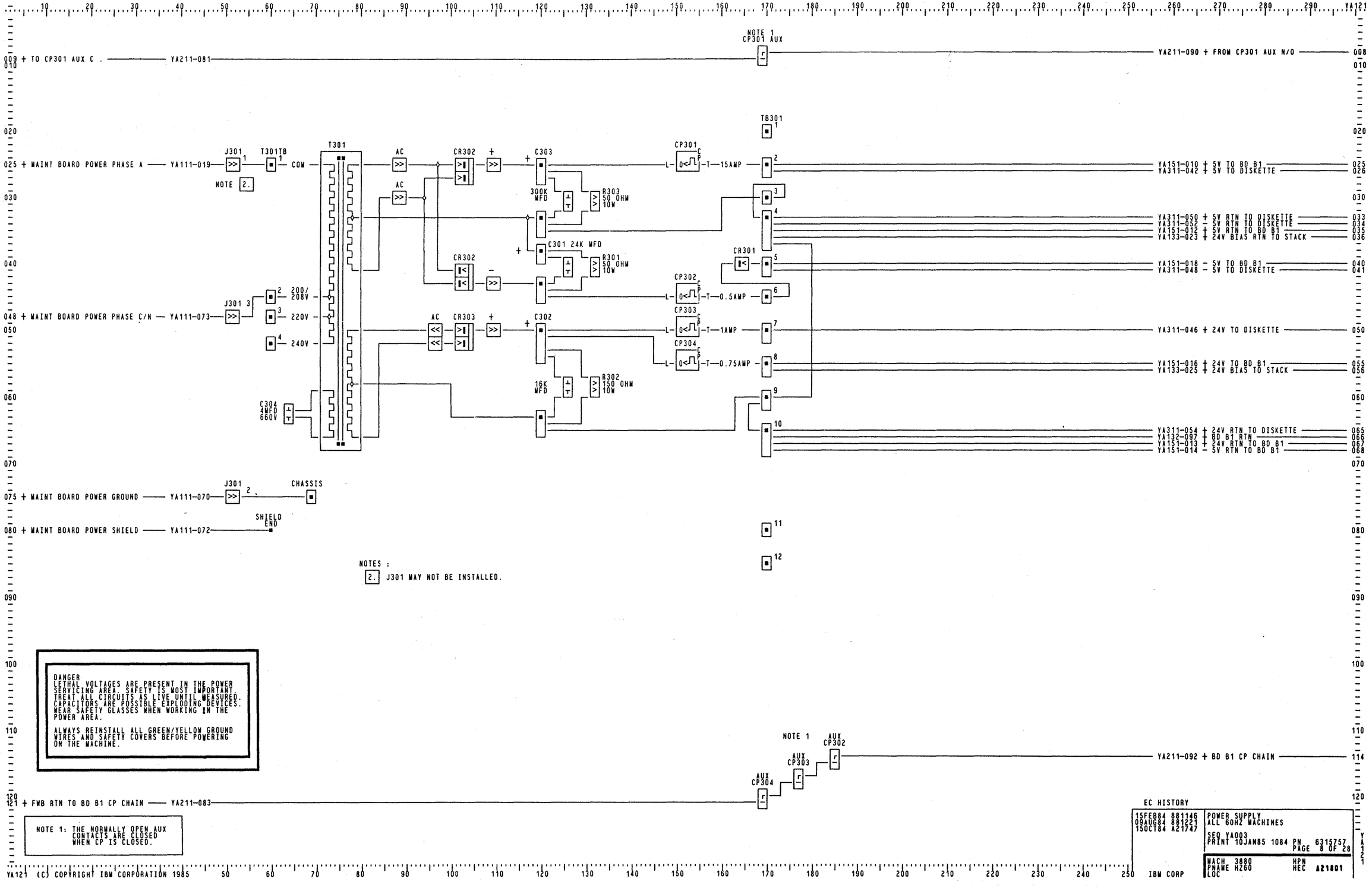
EC HISTORY

15FEB84	881146	
09AUG84	881221	
15OCT84	A21747	

PRIMARY POWER BOX CONTROLS
ALL 60HZ MACHINES
OR 50HZ JAPAN
SEQ YA003
PRINT 10JAN85 1585 PN 6315757
PAGE 7 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP


NOTE 1
CP301 AUX
009 + TO CP301 AUX C . — YA211-081
YA211-090 + FROM CP301 AUX N/O — 008
T301
J301
T301TB
025 + MAINT BOARD POWER PHASE A — YA111-019
COM
NOTE 2.
AC
CR302
C303
300K MFD
R303 50 OHM 10W
C301 24K MFD
R301 50 OHM 10W
CR302
C302
AC
CR303
16K MFD
R302 150 OHM 10W
J301 3
048 + MAINT BOARD POWER PHASE C/N — YA111-073
2 200/208V
3 220V
4 240V
C304 4MFD 660V
CP301
L — T — 15AMP
CP302
L — T — 0.5AMP
CP303
L — T — 1AMP
CP304
L — T — 0.75AMP
CR301
TB301
1
2
3
4
5
6
7
8
9
10
11
12
YA151-010 + 5V TO BD B1
YA311-042 + 5V TO DISKETTE
YA311-050 + 5V RTN TO DISKETTE
YA311-052 - 5V RTN TO DISKETTE
YA151-012 + 5V RTN TO BD B1
YA133-023 + 24V BIAS RTN TO STACK
YA151-018 - 5V TO BD B1
YA311-048 - 5V TO DISKETTE
YA311-046 + 24V TO DISKETTE
YA151-016 + 24V TO BD B1
YA133-025 + 24V BIAS TO STACK
YA311-054 + 24V RTN TO DISKETTE
YA132-007 + BD B1 RTN
YA151-013 + 24V RTN TO BD B1
YA151-014 - 5V RTN TO BD B1
075 + MAINT BOARD POWER GROUND — YA111-070
J301 2
CHASSIS
080 + MAINT BOARD POWER SHIELD — YA111-072
SHIELD END
NOTES :
2. J301 MAY NOT BE INSTALLED.
DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.
ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.
NOTE 1
AUX CP304
AUX CP303
AUX CP302
YA211-092 + BD B1 CP CHAIN — 114
121 + FWB RTN TO BD B1 CP CHAIN — YA211-083
NOTE 1: THE NORMALLY OPEN AUX CONTACTS ARE CLOSED WHEN CP IS CLOSED.
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
POWER SUPPLY
ALL 60HZ MACHINES
SEQ YA003
PRINT 10JAN85 1084 PN 6315757
PAGE 8 OF 28
MACH 3880
PNAME H260
LOC
HPN
HEC A21801
YA121 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA121

60HZ DELTA JUMPERS FOR TB201	240V	220V	200/208V
	-2 TO -1 -6 TO -5 -10 TO -9	-2 TO -3 -6 TO -7 -10 TO -11	-2 TO -4 -6 TO -8 -10 TO -12

ONLY ONE SET OF JUMPERS MUST BE INSTALLED

TB201

+ FERRO PHASE B — YA111-030

+ FERRO PHASE C — YA111-033

NOTE:
SOME EARLY MACHINES MAY HAVE WIRE 16 ON TB201-10.

+ FERRO PHASE A — YA111-027

+ FERRO SHIELD — YA111-035 — SHIELD END

FERRO FRAME GND — YA111-025 — FRAME

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELL GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

+ FWB RTN TO PWR STACK CP CHAIN — YA211-034

T201

C201 5MFD 660V

T202

C202 5MFD 660V

T203

C203 5MFD 660V

PS

FRAME GND

BLWR

AC CR207

AC CR208

AC CR209

C204 54 MFD 10V

50 OHM 10W

YA132-047 BULK AC 1
YA132-051 BULK AC 2
YA132-055 BULK AC 3
YA132-059 BULK AC 4
YA132-063 BULK AC 5
YA132-067 BULK AC 6

YA132-033 CNTR TAP A
YA132-035 CNTR TAP A1
YA132-037 CNTR TAP B
YA132-039 CNTR TAP B1
YA132-041 CNTR TAP C
YA132-043 CNTR TAP C1

YC800-040 PHASE B TO AUX SD SUPPLY
YC800-042 PHASE A TO AUX SD SUPPLY

FRAME — YC800-044 GROUND
FRAME — YC800-048 SHIELD

YA132-091 - 5V BULK RTN

YA133-097 - 5V BULK RTN MULTI
YA137-030 - 5V RTN TO BD B4.
YA137-046 - 5V RTN TO BD B3.

-5V CP205 — 1.5 AMP — YA137-028 - 5V TO SD1 SW

-5V CP207 — 2.5 AMP — YA133-091 - 5V BULD FOR MULTI
CP207 MAY NOT BE REMOVED ON SOME MACHINES

-5V CP210 — 1.5 AMP — YA137-044 - 5V TO SD2 SW

YA211-017 + FROM PWR STACK CP CHAIN

AUX CP210
AUX CP208
AUX CP207
AUX CP206
AUX CP205
AUX CP203
AUX CP201

AUX CPS MAY NOT BE REMOVED ON SOME MACHINES

EC HISTORY

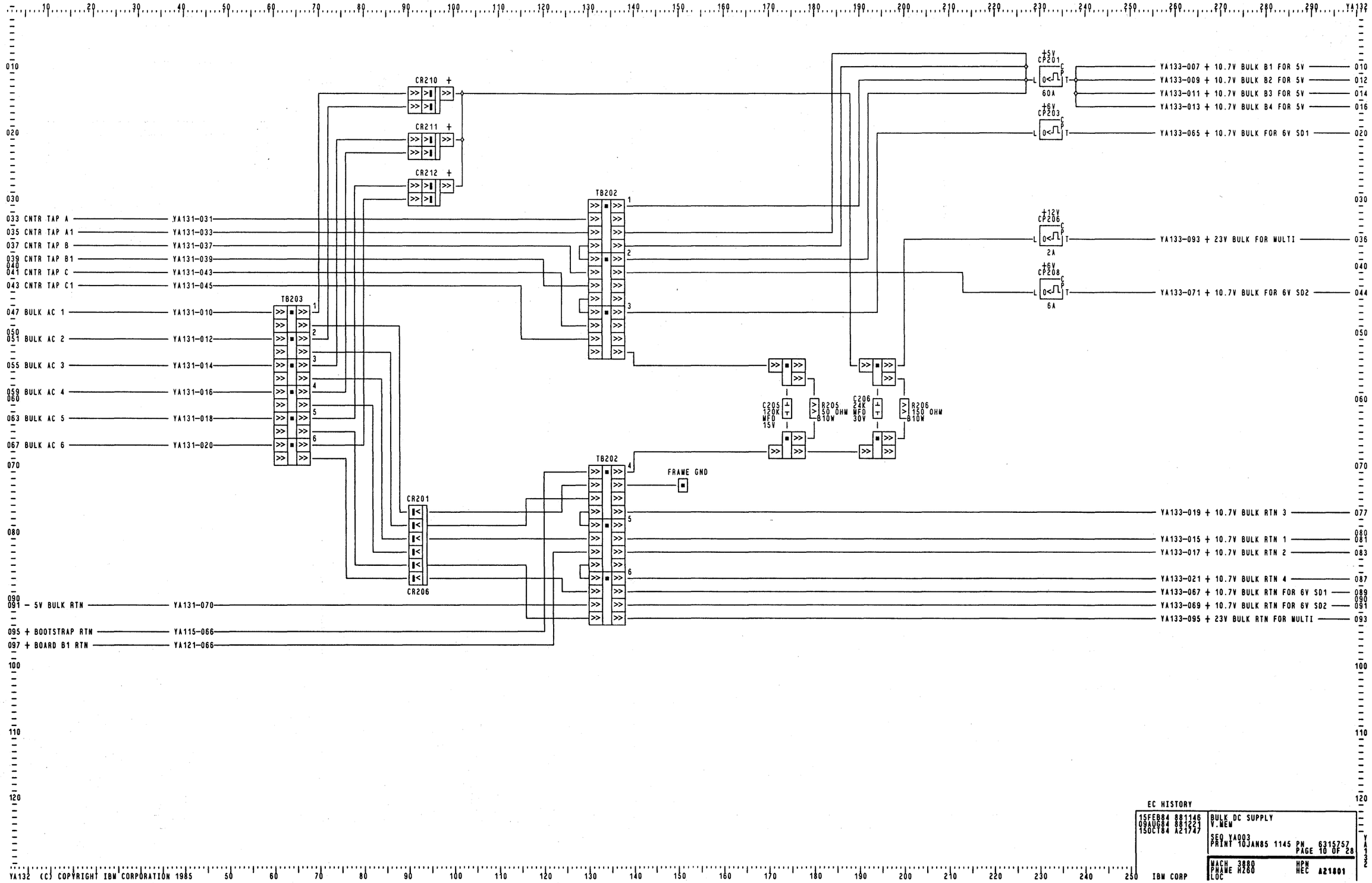
15FEB84	881146	
09AUG84	881221	
15OCT84	A21747	

DC BULK SUPPLIES - NEGATIVE
ALL 60HZ MACHINES
MODELS WITH SUBSYSTEM STORAGE
SEO YA003
PRINT 10JAN85 1077 PN 6315757
PAGE 9 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

YA131

IBM CORP



EC HISTORY

15FEB84 881146	BULK DC SUPPLY
09AUG84 881221	V.MEM
15OCT84 A21747	
	SEQ YA003
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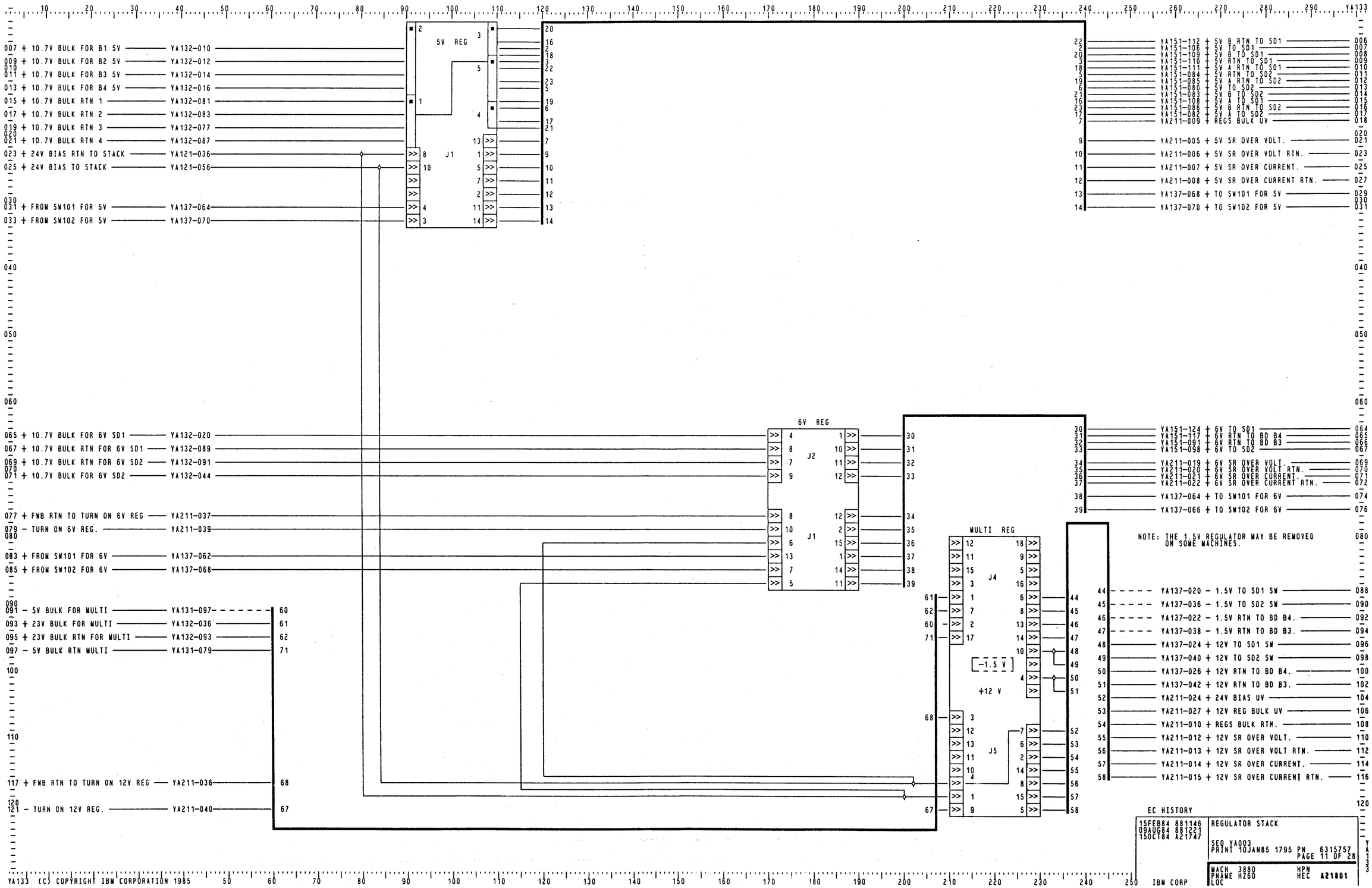
	PAGE 10 OF 28
	MACH 3880 HPN
	PNAME H260 HEC A21801
	LOC

IBM CORP


5V REG
J1
6V REG
J2
MULTI REG
J4
J5
-1.5 V
+12 V
007 + 10.7V BULK FOR B1 5V — YA132-010
009 + 10.7V BULK FOR B2 5V — YA132-012
011 + 10.7V BULK FOR B3 5V — YA132-014
013 + 10.7V BULK FOR B4 5V — YA132-016
015 + 10.7V BULK RTN 1 — YA132-081
017 + 10.7V BULK RTN 2 — YA132-083
019 + 10.7V BULK RTN 3 — YA132-077
021 + 10.7V BULK RTN 4 — YA132-087
023 + 24V BIAS RTN TO STACK — YA121-036
025 + 24V BIAS TO STACK — YA121-056
031 + FROM SW101 FOR 5V — YA137-064
033 + FROM SW102 FOR 5V — YA137-070
YA151-112 + 5V B RTN TO SD1
YA151-106 + 5V TO SD1
YA151-109 + 5V B TO SD1
YA151-110 + 5V RTN TO SD1
YA151-111 + 5V A RTN TO SD1
YA151-084 + 5V RTN TO SD2
YA151-085 + 5V A RTN TO SD2
YA151-080 + 5V TO SD2
YA151-083 + 5V B TO SD2
YA151-108 + 5V A TO SD1
YA151-086 + 5V B RTN TO SD2
YA151-082 + 5V A TO SD2
YA211-009 + REGS BULK UV
YA211-005 + 5V SR OVER VOLT.
YA211-006 + 5V SR OVER VOLT RTN.
YA211-007 + 5V SR OVER CURRENT.
YA211-008 + 5V SR OVER CURRENT RTN.
YA137-068 + TO SW101 FOR 5V
YA137-070 + TO SW102 FOR 5V
065 + 10.7V BULK FOR 6V SD1 — YA132-020
067 + 10.7V BULK RTN FOR 6V SD1 — YA132-089
069 + 10.7V BULK RTN FOR 6V SD2 — YA132-091
071 + 10.7V BULK FOR 6V SD2 — YA132-044
077 + FWB RTN TO TURN ON 6V REG — YA211-037
079 - TURN ON 6V REG. — YA211-039
083 + FROM SW101 FOR 6V — YA137-062
085 + FROM SW102 FOR 6V — YA137-068
091 - 5V BULK FOR MULTI — YA131-097
093 + 23V BULK FOR MULTI — YA132-036
095 + 23V BULK RTN FOR MULTI — YA132-093
097 - 5V BULK RTN MULTI — YA131-079
117 + FWB RTN TO TURN ON 12V REG — YA211-036
121 - TURN ON 12V REG. — YA211-040
YA151-124 + 6V TO SD1
YA151-117 + 6V RTN TO BD B4
YA151-091 + 6V RTN TO BD B3
YA151-098 + 6V TO SD2
YA211-019 + 6V SR OVER VOLT.
YA211-020 + 6V SR OVER VOLT RTN.
YA211-021 + 6V SR OVER CURRENT.
YA211-022 + 6V SR OVER CURRENT RTN.
YA137-064 + TO SW101 FOR 6V
YA137-066 + TO SW102 FOR 6V
NOTE: THE 1.5V REGULATOR MAY BE REMOVED ON SOME MACHINES.
YA137-020 - 1.5V TO SD1 SW
YA137-036 - 1.5V TO SD2 SW
YA137-022 - 1.5V RTN TO BD B4.
YA137-038 - 1.5V RTN TO BD B3.
YA137-024 + 12V TO SD1 SW
YA137-040 + 12V TO SD2 SW
YA137-026 + 12V RTN TO BD B4.
YA137-042 + 12V RTN TO BD B3.
YA211-024 + 24V BIAS UV
YA211-027 + 12V REG BULK UV
YA211-010 + REGS BULK RTN.
YA211-012 + 12V SR OVER VOLT.
YA211-013 + 12V SR OVER VOLT RTN.
YA211-014 + 12V SR OVER CURRENT.
YA211-015 + 12V SR OVER CURRENT RTN.
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
REGULATOR STACK
SEQ YA003
PRINT 10JAN85 1795 PN 6315757
PAGE 11 OF 28
MACH 3880
PNAME HZ60
LOC
HPN
HEC A21001
YA133 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA133

NOTE: MAY BE REMOVED ON SOME MACHINES.

020 – 1.5V TO SD1 SW — YA133-088 — J101 1 — 11
022 – 1.5V RTN TO BD B4 — YA133-092 — J101 2 — 1
024 + 12V TO SD1 SW — YA133-096 — J101 3 — 12
026 + 12V RTN TO BD B4 — YA133-100 — J101 4 — 2
028 – 5V TO SD1 SW — YA131-091 — J101 5 — 13
030 – 5V RTN TO BD B4 — YA131-080 — J101 6 — 3

036 – 1.5V TO SD2 SW — YA133-090 — J102 1 — 14
038 – 1.5V RTN TO BD B3 — YA133-094 — J102 2 — 4
040 + 12V TO SD2 SW — YA133-098 — J102 3 — 15
042 + 12V RTN TO BD B3 — YA133-102 — J102 4 — 5
044 – 5V TO SD2 SW — YA131-103 — J102 5 — 16
046 – 5V RTN TO BD B3 — YA131-081 — J102 6 — 6

064 + TO SW101 FOR 6V — YA133-074 — J103 3 — 19
066 + TO SW102 FOR 6V — YA133-076 — J103 4 — 20
068 + TO SW101 FOR 5V — YA133-029 — J103 5 — 21
070 + TO SW102 FOR 5V — YA133-031 — J103 6 — 22
072 + FWB RTN TO SW 101 SENSE. — YA163-064 — J104 28 — 23
074 + FWB RTN TO SW 102 SENSE. — YA163-062 — J104 25 — 24

SD1 SWITCH 101

13 – A02	R101	B01	31	–5V
21 – A06		B07	32	+5V +3V
11 – A10		B11	33	–1.5V
12 – C04	R102	D06	34	+12V
		D09		
19 – E08		F06	36	+6V
23 – E12		F09	37	SENSE

SD2 SWITCH 102

16 – A02	R103	B01	41	
22 – A06		B07	42	
14 – A10		B11	43	
15 – C04	R104	D06	44	
		D09		
20 – E08		F06	46	
24 – E12		F09	47	

33 — J101 7 — YA151-125 – 1.5V FROM SD1 SW TO BD B4 — 020
1 — J101 8 — YA151-118 – 1.5V RTN TO BD B4 — 022
34 — J101 9 — YA151-120 + 12V FROM SD1 SW TO BD B4 — 024
2 — J101 10 — YA151-113 + 12V RTN TO BD B4 — 026
31 — J101 11 — YA151-121 – 5V FROM SD1 SW TO BD B4 — 028
3 — J101 12 — YA151-114 – 5V RTN TO BD B4 — 030

43 — J102 7 — YA151-099 – 1.5V FROM SD2 SW TO BD B3 — 036
4 — J102 8 — YA151-092 – 1.5V RTN TO BD B3 — 038
44 — J102 9 — YA151-094 + 12V FROM SD2 SW TO BD B3 — 040
5 — J102 10 — YA151-087 + 12V RTN TO BD B3 — 042
41 — J102 11 — YA151-095 – 5V FROM SD2 SW TO BD B3 — 044
6 — J102 12 — YA151-088 – 5V RTN TO BD B3 — 046

36 — J103 9 — YA133-083 + FROM SW101 FOR 6V — 062
32 — J103 10 — YA133-031 + FROM SW101 FOR 5V — 064
46 — J103 11 — YA133-085 + FROM SW102 FOR 6V — 068
42 — J103 13 — YA133-033 + FROM SW102 FOR 5V — 070
47 — J104 14 — YA163-012 + FROM SWITCH 102 SENSE SD2 — 074
37 — J104 15 — YA163-014 + FROM SWITCH 101 SENSE SD1 — 076

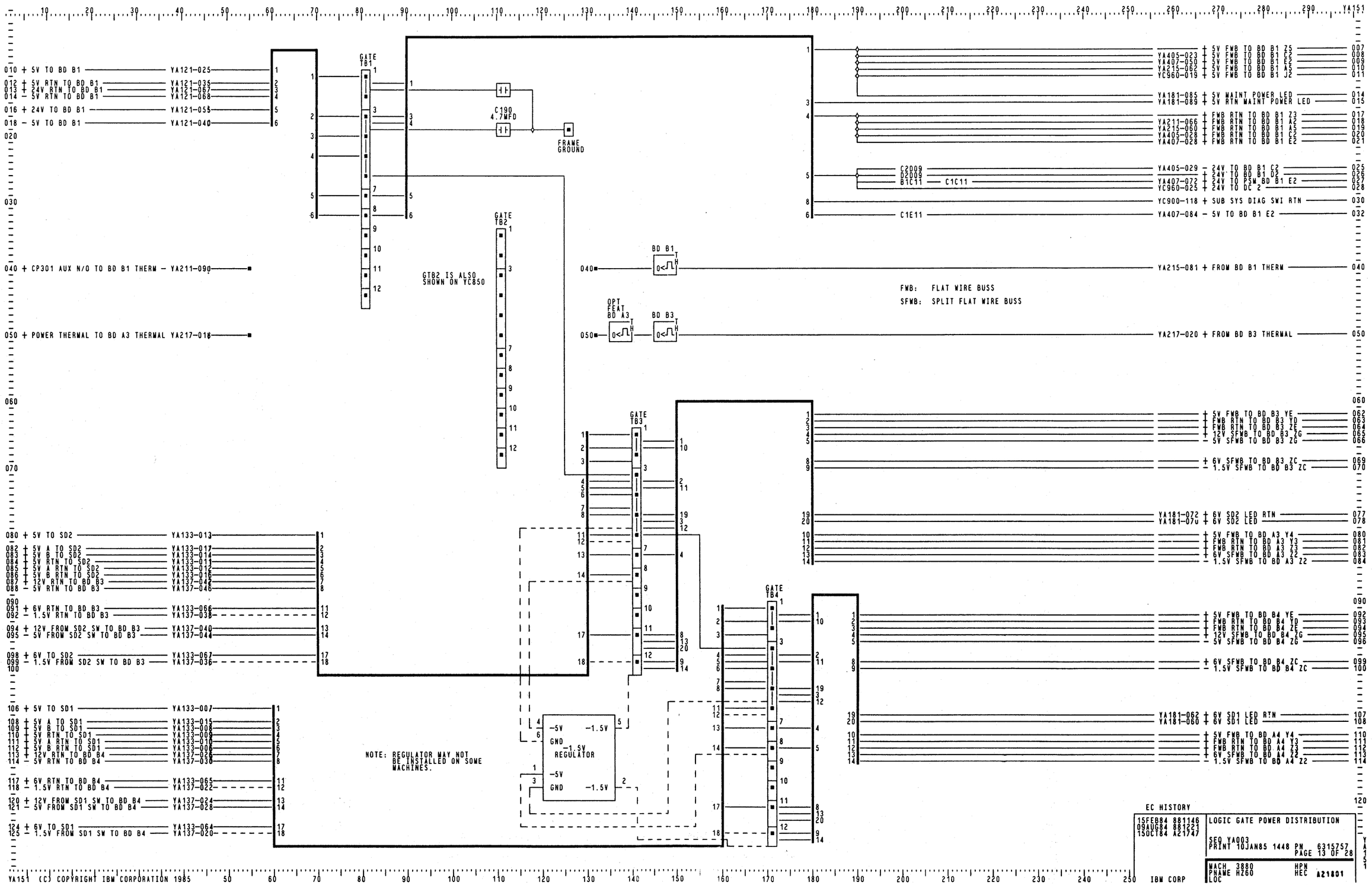
STACK POWER THERMAL

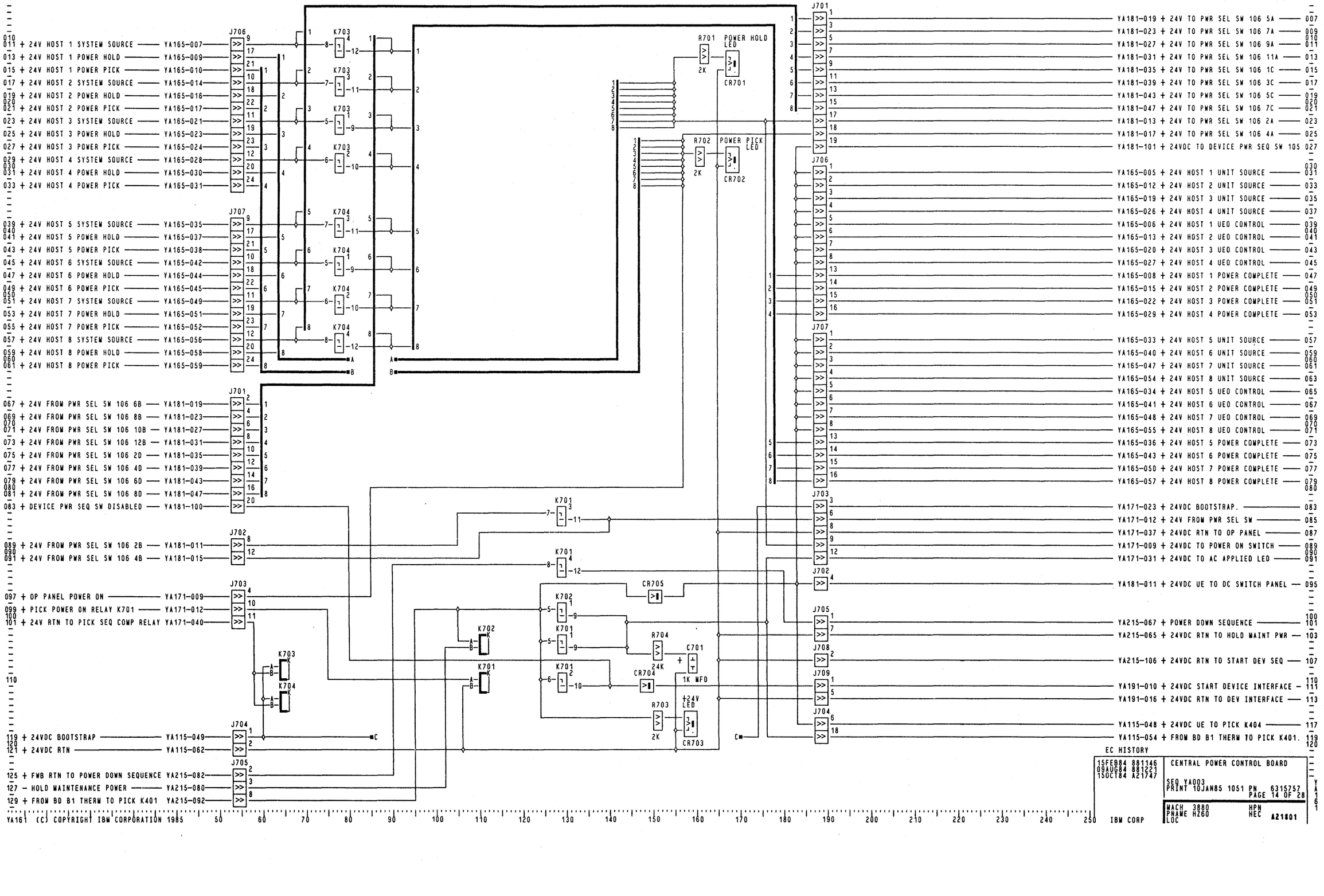
118 + FWB RTN TO POWER THERMAL — YA211-070 — YA211-042 + FROM POWER THERMAL — 118

EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747

DC SWITCH PANEL
SEQ YA003
PRINT 10JAN85 1778 PN 6315757
PAGE 12 OF 28
MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP
YA137


010 + 5V TO BD B1 — YA121-025
012 + 5V RTN TO BD B1 — YA121-035
013 + 24V RTN TO BD B1 — YA121-067
014 - 5V RTN TO BD B1 — YA121-068
016 + 24V TO BD B1 — YA121-055
018 - 5V TO BD B1 — YA121-040
GATE TB1
C190 4.7MFD
FRAME GROUND
GATE TB2
GTB2 IS ALSO SHOWN ON YC850
040 + CP301 AUX N/O TO BD B1 THERM - YA211-090
BD B1
YA215-081 + FROM BD B1 THERM
050 + POWER THERMAL TO BD A3 THERMAL YA217-018
OPT FEAT BD A3
BD B3
YA217-020 + FROM BD B3 THERMAL
YA405-023 + 5V FWB TO BD B1 Z5
YA405-023 + 5V FWB TO BD B1 Z3
YA407-050 + 5V FWB TO BD B1 E2
YA215-062 + 5V FWB TO BD B1 A5
YC960-019 + 5V FWB TO BD B1 J2
YA181-085 + 5V MAINT POWER LED
YA181-089 + 5V RTN MAINT POWER LED
YA211-066 + FWB RTN TO BD B1 A2
YA215-060 + FWB RTN TO BD B1 A5
YA405-028 + FWB RTN TO BD B1 C2
YA407-028 + FWB RTN TO BD B1 E2
C2D09
D2D09
B1C11 — C1C11
YA405-029 - 24V TO BD B1 C2
+ 24V TO BD B1 D2
YA407-072 + 24V TO PSM BD B1 E2
YC960-025 + 24V TO DC 2
YC900-118 + SUB SYS DIAG SWI RTN
C1E11
YA407-084 - 5V TO BD B1 E2
FWB: FLAT WIRE BUSS
SFWB: SPLIT FLAT WIRE BUSS
GATE TB3
GATE TB4
080 + 5V TO SD2 — YA133-013
082 + 5V A TO SD2 — YA133-017
083 + 5V B TO SD2 — YA133-014
084 + 5V RTN TO SD2 — YA133-011
085 + 5V A RTN TO SD2 — YA133-012
086 + 5V B RTN TO SD2 — YA133-016
087 + 12V RTN TO BD B3 — YA137-042
088 - 5V RTN TO BD B3 — YA137-046
091 + 6V RTN TO BD B3 — YA133-066
092 - 1.5V RTN TO BD B3 — YA137-038
094 + 12V FROM SD2 SW TO BD B3 — YA137-040
095 - 5V FROM SD2 SW TO BD B3 — YA137-044
098 + 6V TO SD2 — YA133-067
099 - 1.5V FROM SD2 SW TO BD B3 — YA137-036
106 + 5V TO SD1 — YA133-007
108 + 5V A TO SD1 — YA133-015
109 + 5V B TO SD1 — YA133-008
110 + 5V RTN TO SD1 — YA133-009
111 + 5V A RTN TO SD1 — YA133-010
112 + 5V B RTN TO SD1 — YA133-006
113 + 12V RTN TO BD B4 — YA137-022
114 - 5V RTN TO BD B4 — YA137-030
117 + 6V RTN TO BD B4 — YA133-065
118 - 1.5V RTN TO BD B4 — YA137-022
120 + 12V FROM SD1 SW TO BD B4 — YA137-024
121 - 5V FROM SD1 SW TO BD B4 — YA137-028
124 + 6V TO SD1 — YA133-064
125 - 1.5V FROM SD1 SW TO BD B4 — YA137-020
NOTE: REGULATOR MAY NOT BE INSTALLED ON SOME MACHINES.
-5V
-1.5V
GND
REGULATOR
YA405-029 - 24V TO BD B1 C2
+ 24V TO BD B1 D2
YA407-072 + 24V TO PSM BD B1 E2
YC960-025 + 24V TO DC 2
YA181-072 + 6V SD2 LED RTN
YA181-070 + 6V SD2 LED
YA181-062 + 6V SD1 LED RTN
YA181-060 + 6V SD1 LED
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
LOGIC GATE POWER DISTRIBUTION
SEQ YA003
PRINT 10JAN85 1448 PN 6315757
PAGE 13 OF 28
MACH 3880
PNAME HZ60
LOC
HPN
HEC A21801
YA151 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA151



EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

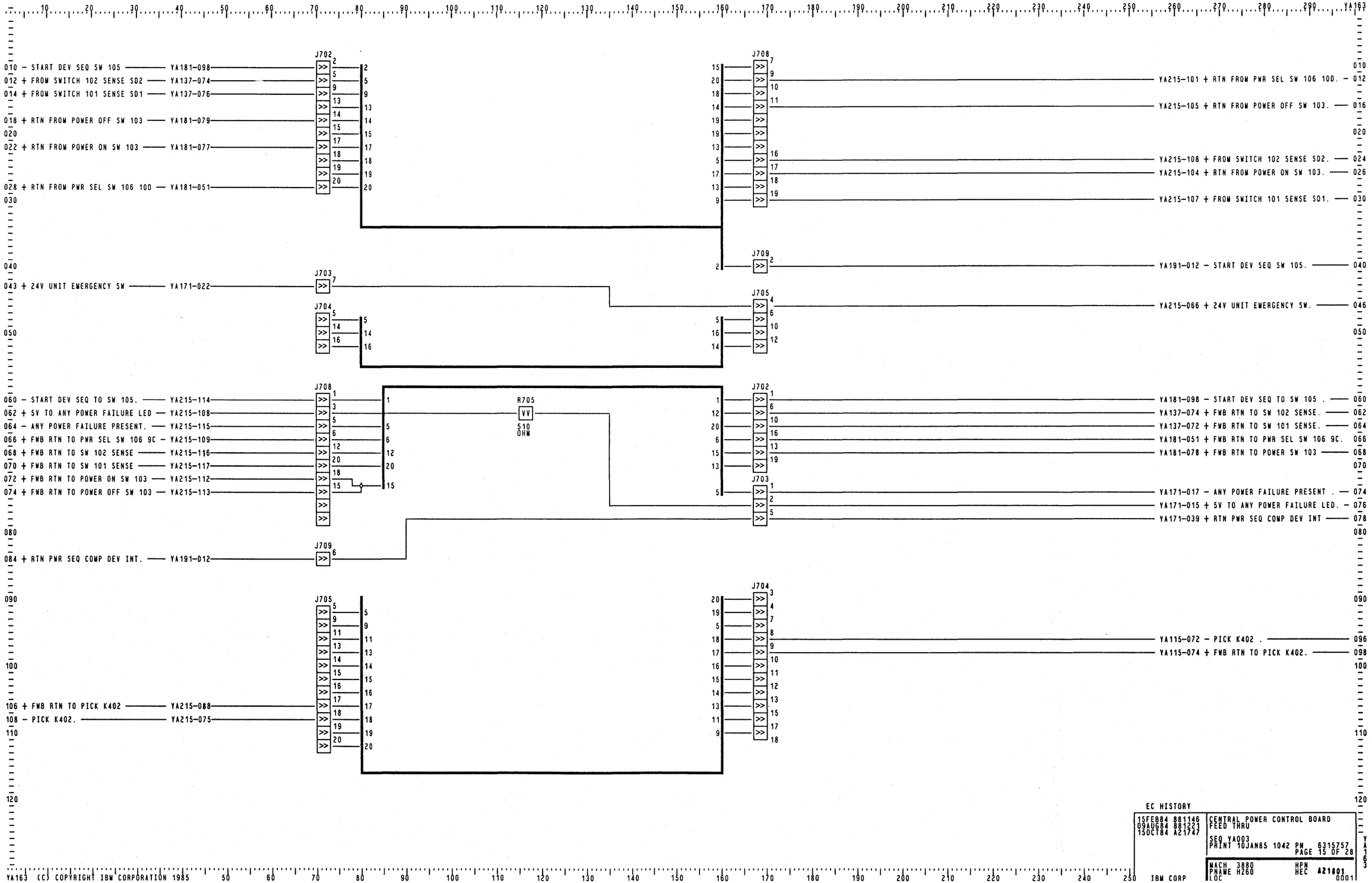
CENTRAL POWER CONTROL BOARD

SEQ YA003
PRINT 10JAN85 1051 PN 6315757
PAGE 14 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

YA161



EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

CENTRAL POWER CONTROL BOARD
FEED THRU

SEQ YA003
PRINT 10JAN85 1042 PN 6315757
PAGE 15 OF 28

MACH 3880 HPN
PNAME H260 HEC A21001
LOC 0001

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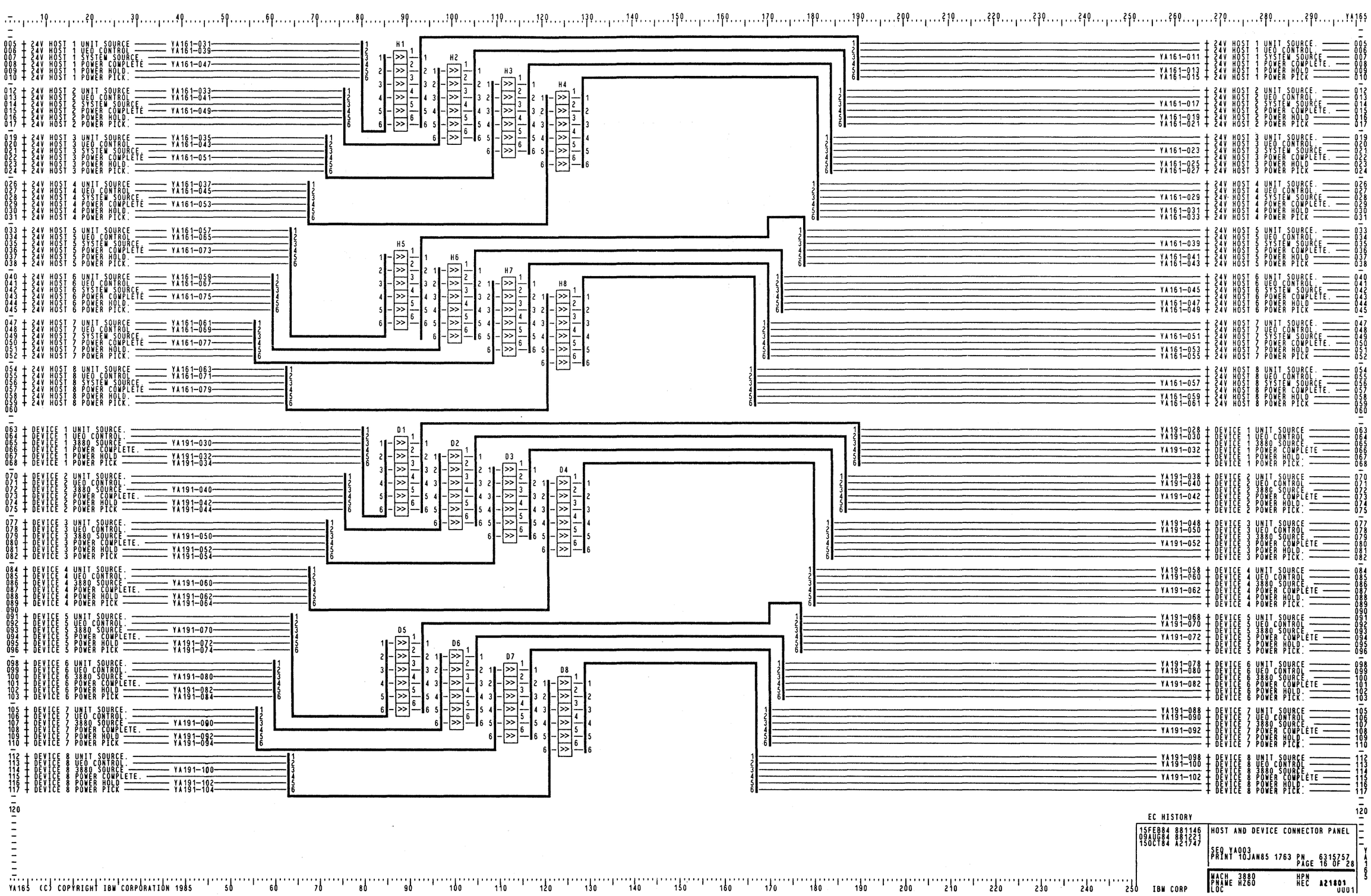
YA163


005 + 24V HOST 1 UNIT SOURCE —— YA161-031
006 + 24V HOST 1 UEO CONTROL —— YA161-039
007 + 24V HOST 1 SYSTEM SOURCE
008 + 24V HOST 1 POWER COMPLETE —— YA161-047
009 + 24V HOST 1 POWER HOLD.
010 + 24V HOST 1 POWER PICK.
012 + 24V HOST 2 UNIT SOURCE —— YA161-033
013 + 24V HOST 2 UEO CONTROL —— YA161-041
014 + 24V HOST 2 SYSTEM SOURCE
015 + 24V HOST 2 POWER COMPLETE —— YA161-049
016 + 24V HOST 2 POWER HOLD.
017 + 24V HOST 2 POWER PICK.
019 + 24V HOST 3 UNIT SOURCE —— YA161-035
020 + 24V HOST 3 UEO CONTROL —— YA161-043
021 + 24V HOST 3 SYSTEM SOURCE
022 + 24V HOST 3 POWER COMPLETE —— YA161-051
023 + 24V HOST 3 POWER HOLD.
024 + 24V HOST 3 POWER PICK.
026 + 24V HOST 4 UNIT SOURCE —— YA161-037
027 + 24V HOST 4 UEO CONTROL —— YA161-045
028 + 24V HOST 4 SYSTEM SOURCE
029 + 24V HOST 4 POWER COMPLETE —— YA161-053
030 + 24V HOST 4 POWER HOLD.
031 + 24V HOST 4 POWER PICK.
033 + 24V HOST 5 UNIT SOURCE —— YA161-057
034 + 24V HOST 5 UEO CONTROL —— YA161-065
035 + 24V HOST 5 SYSTEM SOURCE
036 + 24V HOST 5 POWER COMPLETE —— YA161-073
037 + 24V HOST 5 POWER HOLD.
038 + 24V HOST 5 POWER PICK.
040 + 24V HOST 6 UNIT SOURCE —— YA161-059
041 + 24V HOST 6 UEO CONTROL —— YA161-067
042 + 24V HOST 6 SYSTEM SOURCE
043 + 24V HOST 6 POWER COMPLETE —— YA161-075
044 + 24V HOST 6 POWER HOLD.
045 + 24V HOST 6 POWER PICK.
047 + 24V HOST 7 UNIT SOURCE —— YA161-061
048 + 24V HOST 7 UEO CONTROL —— YA161-069
049 + 24V HOST 7 SYSTEM SOURCE
050 + 24V HOST 7 POWER COMPLETE —— YA161-077
051 + 24V HOST 7 POWER HOLD.
052 + 24V HOST 7 POWER PICK.
054 + 24V HOST 8 UNIT SOURCE —— YA161-063
055 + 24V HOST 8 UEO CONTROL —— YA161-071
056 + 24V HOST 8 SYSTEM SOURCE
057 + 24V HOST 8 POWER COMPLETE —— YA161-079
058 + 24V HOST 8 POWER HOLD.
059 + 24V HOST 8 POWER PICK.
060
H1
H2
H3
H4
H5
H6
H7
H8
+ 24V HOST 1 UNIT SOURCE. —— 005
+ 24V HOST 1 UEO CONTROL. —— 006
YA161-011 + 24V HOST 1 SYSTEM SOURCE —— 007
+ 24V HOST 1 POWER COMPLETE. —— 008
YA161-013 + 24V HOST 1 POWER HOLD —— 009
YA161-015 + 24V HOST 1 POWER PICK —— 010
+ 24V HOST 2 UNIT SOURCE. —— 012
+ 24V HOST 2 UEO CONTROL. —— 013
YA161-017 + 24V HOST 2 SYSTEM SOURCE —— 014
+ 24V HOST 2 POWER COMPLETE. —— 015
YA161-019 + 24V HOST 2 POWER HOLD —— 016
YA161-021 + 24V HOST 2 POWER PICK —— 017
+ 24V HOST 3 UNIT SOURCE. —— 019
+ 24V HOST 3 UEO CONTROL. —— 020
YA161-023 + 24V HOST 3 SYSTEM SOURCE —— 021
+ 24V HOST 3 POWER COMPLETE. —— 022
YA161-025 + 24V HOST 3 POWER HOLD —— 023
YA161-027 + 24V HOST 3 POWER PICK —— 024
+ 24V HOST 4 UNIT SOURCE. —— 026
+ 24V HOST 4 UEO CONTROL. —— 027
YA161-029 + 24V HOST 4 SYSTEM SOURCE —— 028
+ 24V HOST 4 POWER COMPLETE. —— 029
YA161-031 + 24V HOST 4 POWER HOLD —— 030
YA161-033 + 24V HOST 4 POWER PICK —— 031
+ 24V HOST 5 UNIT SOURCE. —— 033
+ 24V HOST 5 UEO CONTROL. —— 034
YA161-039 + 24V HOST 5 SYSTEM SOURCE —— 035
+ 24V HOST 5 POWER COMPLETE. —— 036
YA161-041 + 24V HOST 5 POWER HOLD —— 037
YA161-043 + 24V HOST 5 POWER PICK —— 038
+ 24V HOST 6 UNIT SOURCE. —— 040
+ 24V HOST 6 UEO CONTROL. —— 041
YA161-045 + 24V HOST 6 SYSTEM SOURCE —— 042
+ 24V HOST 6 POWER COMPLETE. —— 043
YA161-047 + 24V HOST 6 POWER HOLD —— 044
YA161-049 + 24V HOST 6 POWER PICK —— 045
+ 24V HOST 7 UNIT SOURCE. —— 047
+ 24V HOST 7 UEO CONTROL. —— 048
YA161-051 + 24V HOST 7 SYSTEM SOURCE —— 049
+ 24V HOST 7 POWER COMPLETE. —— 050
YA161-053 + 24V HOST 7 POWER HOLD —— 051
YA161-055 + 24V HOST 7 POWER PICK —— 052
+ 24V HOST 8 UNIT SOURCE. —— 054
+ 24V HOST 8 UEO CONTROL. —— 055
YA161-057 + 24V HOST 8 SYSTEM SOURCE —— 056
+ 24V HOST 8 POWER COMPLETE. —— 057
YA161-059 + 24V HOST 8 POWER HOLD —— 058
YA161-061 + 24V HOST 8 POWER PICK —— 059
060
063 + DEVICE 1 UNIT SOURCE.
064 + DEVICE 1 UEO CONTROL.
065 + DEVICE 1 3880 SOURCE —— YA191-030
066 + DEVICE 1 POWER COMPLETE.
067 + DEVICE 1 POWER HOLD —— YA191-032
068 + DEVICE 1 POWER PICK —— YA191-034
070 + DEVICE 2 UNIT SOURCE.
071 + DEVICE 2 UEO CONTROL.
072 + DEVICE 2 3880 SOURCE —— YA191-040
073 + DEVICE 2 POWER COMPLETE.
074 + DEVICE 2 POWER HOLD —— YA191-042
075 + DEVICE 2 POWER PICK —— YA191-044
077 + DEVICE 3 UNIT SOURCE.
078 + DEVICE 3 UEO CONTROL.
079 + DEVICE 3 3880 SOURCE —— YA191-050
080 + DEVICE 3 POWER COMPLETE.
081 + DEVICE 3 POWER HOLD —— YA191-052
082 + DEVICE 3 POWER PICK —— YA191-054
084 + DEVICE 4 UNIT SOURCE.
085 + DEVICE 4 UEO CONTROL.
086 + DEVICE 4 3880 SOURCE —— YA191-060
087 + DEVICE 4 POWER COMPLETE.
088 + DEVICE 4 POWER HOLD —— YA191-062
089 + DEVICE 4 POWER PICK —— YA191-064
090
091 + DEVICE 5 UNIT SOURCE.
092 + DEVICE 5 UEO CONTROL.
093 + DEVICE 5 3880 SOURCE —— YA191-070
094 + DEVICE 5 POWER COMPLETE.
095 + DEVICE 5 POWER HOLD —— YA191-072
096 + DEVICE 5 POWER PICK —— YA191-074
098 + DEVICE 6 UNIT SOURCE.
099 + DEVICE 6 UEO CONTROL.
100 + DEVICE 6 3880 SOURCE —— YA191-080
101 + DEVICE 6 POWER COMPLETE.
102 + DEVICE 6 POWER HOLD —— YA191-082
103 + DEVICE 6 POWER PICK —— YA191-084
105 + DEVICE 7 UNIT SOURCE.
106 + DEVICE 7 UEO CONTROL.
107 + DEVICE 7 3880 SOURCE —— YA191-090
108 + DEVICE 7 POWER COMPLETE.
109 + DEVICE 7 POWER HOLD —— YA191-092
110 + DEVICE 7 POWER PICK —— YA191-094
112 + DEVICE 8 UNIT SOURCE.
113 + DEVICE 8 UEO CONTROL.
114 + DEVICE 8 3880 SOURCE —— YA191-100
115 + DEVICE 8 POWER COMPLETE.
116 + DEVICE 8 POWER HOLD —— YA191-102
117 + DEVICE 8 POWER PICK —— YA191-104
D1
D2
D3
D4
D5
D6
D7
D8
YA191-028 + DEVICE 1 UNIT SOURCE —— 063
YA191-030 + DEVICE 1 UEO CONTROL —— 064
+ DEVICE 1 3880 SOURCE —— 065
YA191-032 + DEVICE 1 POWER COMPLETE —— 066
+ DEVICE 1 POWER HOLD. —— 067
+ DEVICE 1 POWER PICK. —— 068
YA191-038 + DEVICE 2 UNIT SOURCE —— 070
YA191-040 + DEVICE 2 UEO CONTROL —— 071
+ DEVICE 2 3880 SOURCE —— 072
YA191-042 + DEVICE 2 POWER COMPLETE —— 073
+ DEVICE 2 POWER HOLD. —— 074
+ DEVICE 2 POWER PICK. —— 075
YA191-048 + DEVICE 3 UNIT SOURCE —— 077
YA191-050 + DEVICE 3 UEO CONTROL —— 078
+ DEVICE 3 3880 SOURCE —— 079
YA191-052 + DEVICE 3 POWER COMPLETE —— 080
+ DEVICE 3 POWER HOLD. —— 081
+ DEVICE 3 POWER PICK. —— 082
YA191-058 + DEVICE 4 UNIT SOURCE —— 084
YA191-060 + DEVICE 4 UEO CONTROL —— 085
+ DEVICE 4 3880 SOURCE —— 086
YA191-062 + DEVICE 4 POWER COMPLETE —— 087
+ DEVICE 4 POWER HOLD. —— 088
+ DEVICE 4 POWER PICK. —— 089
YA191-068 + DEVICE 5 UNIT SOURCE —— 091
YA191-070 + DEVICE 5 UEO CONTROL —— 092
+ DEVICE 5 3880 SOURCE —— 093
YA191-072 + DEVICE 5 POWER COMPLETE —— 094
+ DEVICE 5 POWER HOLD. —— 095
+ DEVICE 5 POWER PICK. —— 096
YA191-078 + DEVICE 6 UNIT SOURCE —— 098
YA191-080 + DEVICE 6 UEO CONTROL —— 099
+ DEVICE 6 3880 SOURCE —— 100
YA191-082 + DEVICE 6 POWER COMPLETE —— 101
+ DEVICE 6 POWER HOLD. —— 102
+ DEVICE 6 POWER PICK. —— 103
YA191-088 + DEVICE 7 UNIT SOURCE —— 105
YA191-090 + DEVICE 7 UEO CONTROL —— 106
+ DEVICE 7 3880 SOURCE —— 107
YA191-092 + DEVICE 7 POWER COMPLETE —— 108
+ DEVICE 7 POWER HOLD. —— 109
+ DEVICE 7 POWER PICK. —— 110
YA191-098 + DEVICE 8 UNIT SOURCE —— 112
YA191-100 + DEVICE 8 UEO CONTROL —— 113
+ DEVICE 8 3880 SOURCE —— 114
YA191-102 + DEVICE 8 POWER COMPLETE —— 115
+ DEVICE 8 POWER HOLD. —— 116
+ DEVICE 8 POWER PICK. —— 117
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
HOST AND DEVICE CONNECTOR PANEL
SEQ YA003
PRINT 10JAN85 1763 PN 6315757
PAGE 16 OF 28
MACH 3880 HPN
PNAME H260 HEC A21801
LOC UU01
IBM CORP
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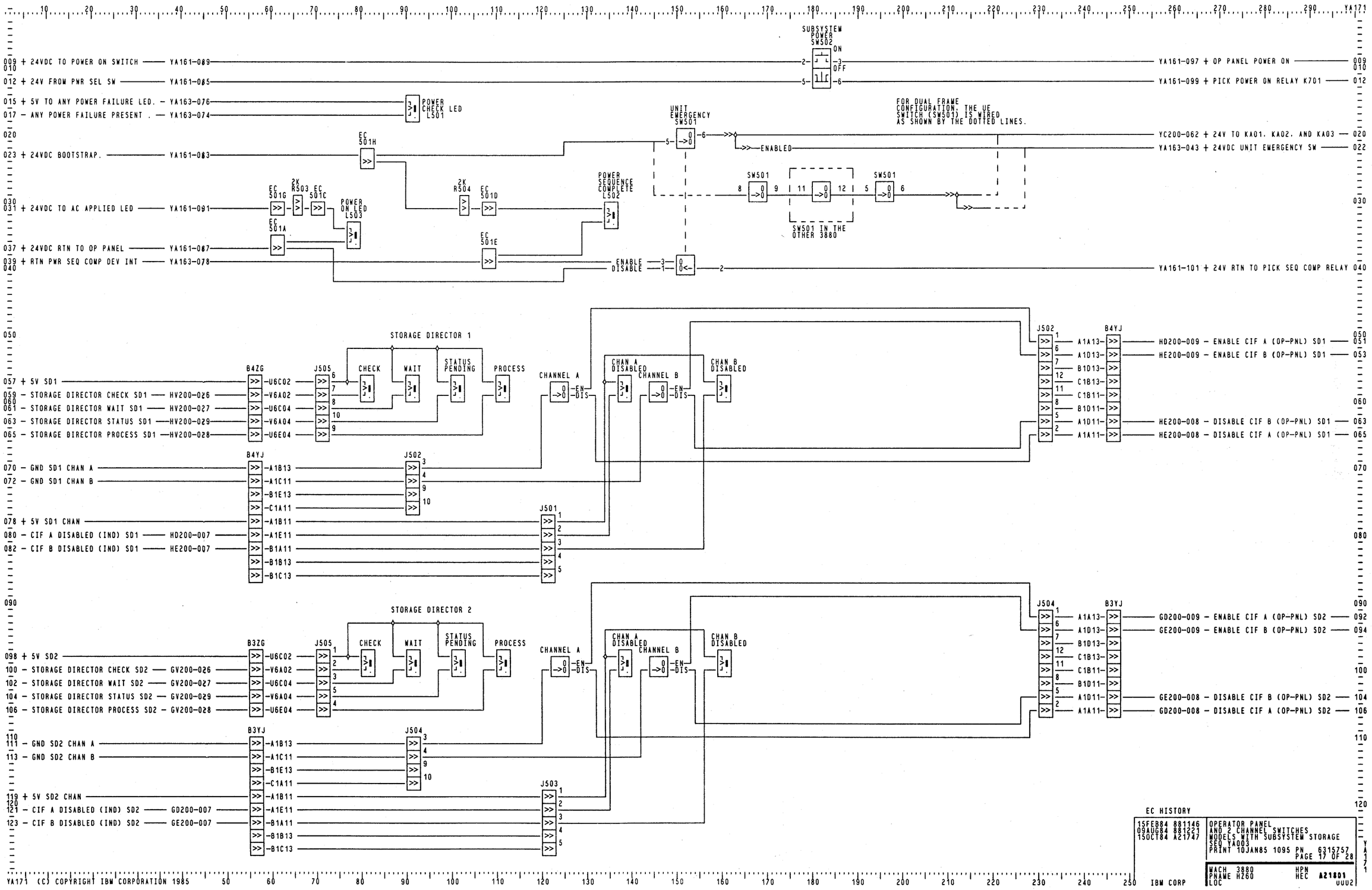
YA165


009 + 24VDC TO POWER ON SWITCH — YA161-089
012 + 24V FROM PWR SEL SW — YA161-085
SUBSYSTEM POWER SW502
ON
OFF
YA161-097 + OP PANEL POWER ON
YA161-099 + PICK POWER ON RELAY K701
015 + 5V TO ANY POWER FAILURE LED. - YA163-076
017 - ANY POWER FAILURE PRESENT . — YA163-074
POWER CHECK LED L501
UNIT EMERGENCY SW501
FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.
YC200-062 + 24V TO KA01, KA02, AND KA03
ENABLED
YA163-043 + 24VDC UNIT EMERGENCY SW
023 + 24VDC BOOTSTRAP. — YA161-083
EC 501H
EC 501G
2K R503
EC 501C
POWER ON LED L503
2K R504
EC 501D
POWER SEQUENCE COMPLETE L502
SW501
SW501 IN THE OTHER 3880
031 + 24VDC TO AC APPLIED LED — YA161-091
EC 501A
037 + 24VDC RTN TO OP PANEL — YA161-087
EC 501E
039 + RTN PWR SEQ COMP DEV INT — YA163-078
ENABLE
DISABLE
YA161-101 + 24V RTN TO PICK SEQ COMP RELAY
STORAGE DIRECTOR 1
B4ZG
J505
CHECK
WAIT
STATUS PENDING
PROCESS
057 + 5V SD1
059 - STORAGE DIRECTOR CHECK SD1 — HV200-026
061 - STORAGE DIRECTOR WAIT SD1 — HV200-027
063 - STORAGE DIRECTOR STATUS SD1 — HV200-029
065 - STORAGE DIRECTOR PROCESS SD1 — HV200-028
-U6C02
-V6A02
-U6C04
-V6A04
-U6E04
CHANNEL A
CHANNEL B
CHAN A DISABLED
CHAN B DISABLED
EN
DIS
J502
B4YJ
HD200-009 - ENABLE CIF A (OP-PNL) SD1
HE200-009 - ENABLE CIF B (OP-PNL) SD1
HE200-008 - DISABLE CIF B (OP-PNL) SD1
HE200-008 - DISABLE CIF A (OP-PNL) SD1
070 - GND SD1 CHAN A
072 - GND SD1 CHAN B
078 + 5V SD1 CHAN
080 - CIF A DISABLED (IND) SD1 — HD200-007
082 - CIF B DISABLED (IND) SD1 — HE200-007
-A1B13
-A1C11
-B1E13
-C1A11
-A1B11
-A1E11
-B1A11
-B1B13
-B1C13
J501
STORAGE DIRECTOR 2
B3ZG
098 + 5V SD2
100 - STORAGE DIRECTOR CHECK SD2 — GV200-026
102 - STORAGE DIRECTOR WAIT SD2 — GV200-027
104 - STORAGE DIRECTOR STATUS SD2 — GV200-029
106 - STORAGE DIRECTOR PROCESS SD2 — GV200-028
J504
B3YJ
GD200-009 - ENABLE CIF A (OP-PNL) SD2
GE200-009 - ENABLE CIF B (OP-PNL) SD2
GE200-008 - DISABLE CIF B (OP-PNL) SD2
GD200-008 - DISABLE CIF A (OP-PNL) SD2
111 - GND SD2 CHAN A
113 - GND SD2 CHAN B
119 + 5V SD2 CHAN
121 - CIF A DISABLED (IND) SD2 — GD200-007
123 - CIF B DISABLED (IND) SD2 — GE200-007
J503
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 AZ1747
OPERATOR PANEL
AND 2 CHANNEL SWITCHES
MODELS WITH SUBSYSTEM STORAGE
SEQ YA003
PRINT 10JAN85 1095 PN 6315757
PAGE 17 OF 28
MACH 3880
PNAME HZ60
LOC
HPN
HEC A21801
YA171 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP

009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 – ANY POWER FAILURE PRESENT . — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040

SUBSYSTEM POWER SW502 (ON / OFF)
POWER CHECK LED L501
EC 501H
EC 501G
2K R503
EC 501C
POWER ON LED L503
EC 501A
2K R504
EC 501D
EC 501E
POWER SEQUENCE COMPLETE L502
UNIT EMERGENCY SW501
SW501
SW501 IN THE OTHER 3880

FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.

YA161-097 + OP PANEL POWER ON
YA161-099 + PICK POWER ON RELAY K701
YC200-062 + 24V TO KA01, KA02, AND KA03
YA163-043 + 24VDC UNIT EMERGENCY SW
YA161-101 + 24V RTN TO PICK SEQ COMP RELAY

050
057 + 5V SD1
059 – STORAGE DIRECTOR CHECK SD1 — HV200-026
060
061 – STORAGE DIRECTOR WAIT SD1 — HV200-027
063 – STORAGE DIRECTOR STATUS SD1 — HV200-029
065 – STORAGE DIRECTOR PROCESS SD1 — HV200-028

STORAGE DIRECTOR 1
B4ZG -U6C02 / -V6A02 / -U6C04 / -V6A04 / -U6E04
J505 6 / 7 / 8 / 10 / 9
CHECK / WAIT / STATUS PENDING / PROCESS
CHANNEL A REMOTE -EN -DIS
CHANNEL B REMOTE -EN -DIS
CHAN A DISABLED
CHAN B DISABLED
R1 1 / 4 / 6 / 3
J502 1 / 6 / 7 / 12 / 11 / 8 / 5 / 2
B4YJ A1A13 / A1D13 / B1D13 / C1B13 / C1B11 / B1D11 / A1D11 / A1A11

HD200-009 – ENABLE CIF A (OP-PNL) SD1
HE200-009 – ENABLE CIF B (OP-PNL) SD1
HE200-008 – DISABLE CIF B (OP-PNL) SD1
HD200-008 – DISABLE CIF A (OP-PNL) SD1

070 – GND SD1 CHAN A
072 – GND SD1 CHAN B
078 + 5V SD1 CHAN
080 – CIF A DISABLED TO IND SD1 — HD200-007
082 – CIF B DISABLED TO IND SD1 — HE200-007

B4YJ -A1B13 / -A1C11 / -B1E13 / -C1A11 / -A1B11 / -A1E11 / -B1A11 / -B1B13 / -B1C13
J502 3 / 4 / 9 / 10
R1 2 / 5
J501 1 / 2 / 3 / 4 / 5

1.2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESION BETWEEN PINS S07, U06 AND GROUND ON BOARDS B3 AND B4 AS FOLLOWS.

‡ D2S07 – A2U08
‡ E2S07 – C2U08
‡ E2U06 – D2U08
‡ D2U06 – B2U08

090
098 + 5V SD2
100 – STORAGE DIRECTOR CHECK SD2 — GV200-026
102 – STORAGE DIRECTOR WAIT SD2 — GV200-027
104 – STORAGE DIRECTOR STATUS SD2 — GV200-029
106 – STORAGE DIRECTOR PROCESS SD2 — GV200-028

STORAGE DIRECTOR 2
B3ZG -U6C02 / -V6A02 / -U6C04 / -V6A04 / -U6E04
J505 1 / 2 / 3 / 5 / 4
CHECK / WAIT / STATUS PENDING / PROCESS
CHANNEL A REMOTE -EN -DIS
CHANNEL B REMOTE -EN -DIS
CHAN A DISABLED
CHAN B DISABLED
R3 1 / 4 / 6 / 3
J504 1 / 6 / 7 / 12 / 11 / 8 / 5 / 2
B3YJ A1A13 / A1D13 / B1D13 / C1B13 / C1B11 / B1D11 / A1D11 / A1A11

GD200-009 – ENABLE CIF A (OP-PNL) SD2
GE200-009 – ENABLE CIF B (OP-PNL) SD2
GE200-008 – DISABLE CIF B (OP-PNL) SD2
GD200-008 – DISABLE CIF A (OP-PNL) SD2

110
111 – GND SD2 CHAN A
113 – GND SD2 CHAN B
119 + 5V SD2 CHAN
120
121 – CIF A DISABLED TO IND SD2 — GD200-007
123 – CIF B DISABLED TO IND SD2 — GE200-007

B3YJ -A1B13 / -A1C11 / -B1E13 / -C1A11 / -A1B11 / -A1E11 / -B1A11 / -B1B13 / -B1C13
J504 3 / 4 / 9 / 10
R3 2 / 5
J503 1 / 2 / 3 / 4 / 5

EC HISTORY
15FEB84 881146
09AUG84 881221
13OCT84 A21747

OPERATOR PANEL
WITH REMOTE 2 CHANNEL SWITCHES
MODELS WITH SUBSYSTEM STORAGE
SEQ YA003
PRINT 10JAN85 1094 PN 6315757
PAGE 18 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC 0003

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009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 – ANY POWER FAILURE PRESENT . — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040
050

SUBSYSTEM POWER SW502 (ON / OFF)

YA161-097 + OP PANEL POWER ON — 009
YA161-101 + PICK POWER ON RELAY K701 — 012

POWER CHECK LED L501

EC 501H

UNIT EMERGENCY SW501

FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.

YC200-062 + 24V TO KA01, KA02, AND KA03 — 020
ENABLED
YA163-043 + 24VDC UNIT EMERGENCY SW — 022

EC 501G, 2K R503, EC 501C, POWER ON LED L503, EC 501A, 2K R504, EC 501D, EC 501E

POWER SEQUENCE COMPLETE L502

SW501 — SW501 IN THE OTHER 3880 — SW501

ENABLE / DISABLE

YA161-103 + 24V RTN TO PICK SEQ COMP RELAY — 040

YA175-055 – SD1 REMOTE CHAN A — 042
YA175-057 – SD1 REMOTE CHAN B — 044
YA175-035 – SD1 CHAN A ENABLE REMOTE — 046
YA175-037 – SD1 CHAN B ENABLE REMOTE — 048

STORAGE DIRECTOR 1

057 + 5V SD1
059 – STORAGE DIRECTOR CHECK SD1 — HV200-026
060
061 – STORAGE DIRECTOR WAIT SD1 — HV200-027
063 – STORAGE DIRECTOR STATUS SD1 — HV200-029
065 – STORAGE DIRECTOR PROCESS SD1 — HV200-028

B4ZG: R6C02, S6A02, R6C04, S6A04, R6E04
J505: CHECK, WAIT, STATUS PENDING, PROCESS

CHANNEL A (EN / REM / DIS) — CHAN A DISABLED — CHANNEL B (EN / REM / DIS) — CHAN B DISABLED

J502 / B4YJ

HD200-009 – ENABLE CIF A (OP-PNL) SD1 — 051
HE200-009 – ENABLE CIF B (OP-PNL) SD1 — 053
HE200-008 – DISABLE CIF B (OP-PNL) SD1 — 063
HD200-008 – DISABLE CIF A (OP-PNL) SD1 — 065
YA175-047 – SD1 CHAN B DISABLE REMOTE — 067
YA175-049 – SD1 CHAN A DISABLE REMOTE — 069

070 – GND SD1 CHAN A
072 – GND SD1 CHAN B
078 + 5V SD1 CHAN
080 – CIF A DISABLED TO IND SD1 — HD200-007
082 – CIF B DISABLED TO IND SD1 — HE200-007

B4YJ: A1E13, B1A11, C1C13, C1D11, A1E11, B1C11, B1D11, B1E13, C1A13
J502: 3, 4, 9, 10
J501: 1, 2, 3, 4, 5

1,2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESSION BETWEEN PINS S07, D07 AND GROUND ON BOARDS B3 AND B4 AS FOLLOWS.

D2S07 – A2U08
E2S07 – C2U08
E2U06 – D2U08
D2U06 – B2U08

YA175-105 – SD2 REMOTE CHAN A — 083
YA175-107 – SD2 REMOTE CHANNEL B — 085
YA175-085 – SD2 CHAN A ENABLE REMOTE — 087
YA175-087 – SD2 CHAN B ENABLE REMOTE — 089
090

STORAGE DIRECTOR 2

098 + 5V SD2
100 – STORAGE DIRECTOR CHECK SD2 — GV200-026
102 – STORAGE DIRECTOR WAIT SD2 — GV200-027
104 – STORAGE DIRECTOR STATUS SD2 — GV200-029
106 – STORAGE DIRECTOR PROCESS SD2 — GV200-028

B3ZG: R6C02, S6A02, R6C04, S6A04, R6E04
J505: CHECK, WAIT, STATUS PENDING, PROCESS

CHANNEL A (EN / REM / DIS) 8A — CHAN A DISABLED — CHANNEL B (EN / REM / DIS) 8B — CHAN B DISABLED

J504 / B3YJ

GD200-009 – ENABLE CIF A (OP-PNL) SD2 — 092
GE200-009 – ENABLE CIF B (OP-PNL) SD2 — 094
GE200-008 – DISABLE CIF B (OP-PNL) SD2 — 104
GD200-008 – DISABLE CIF A (OP-PNL) SD2 — 106
YA175-097 – SD2 CHANNEL B DESABLE REMOTE — 108
YA175-099 – SD2 CHANNEL A DSABLE REMOTE — 110

110
111 – GND SD2 CHAN A
113 – GND SD2 CHAN B
119 + 5V SD2 CHAN
120
121 – CIF A DISABLED (IND) SD2 — GD200-007
123 – CIF B DISABLED (IND) SD2 — GE200-007

B3YJ: A1E13, B1A11, C1C13, C1D11, A1E11, B1C11, B1D11, B1E13, C1A13
J504: 3, 4, 9, 10
J503: 1, 2, 3, 4, 5

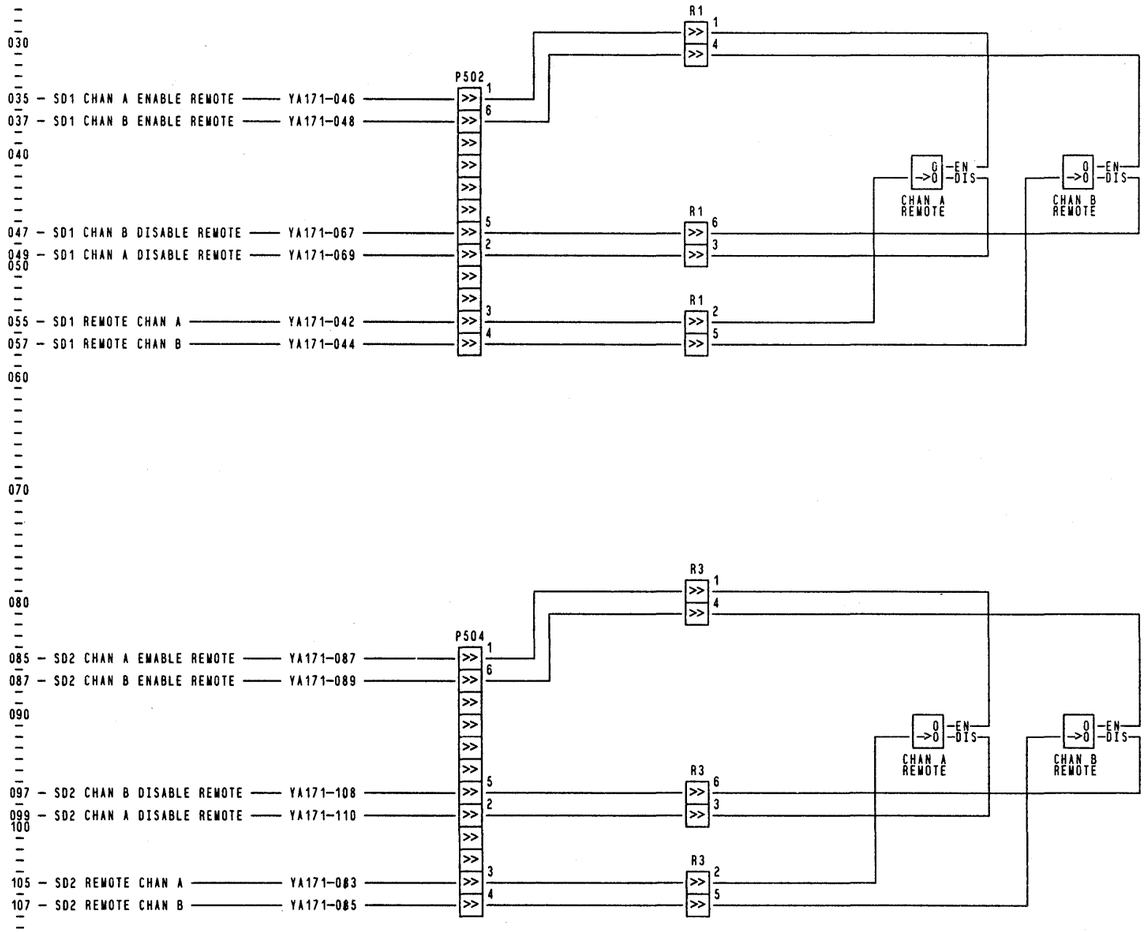
120

EC HISTORY

15FEB84 881146	OPERATOR PANEL 2X1 AND 2 CH SWITCHES LOCAL/REMOTE FEATURE
09AUG84 881221	MODELS WITH SUBSYSTEM STORAGE
15OCT84 A21747	SEQ YA003
	PRINT 10JAN85 1095 PN 6315757
	PAGE 19 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC 0001

IBM CORP
YA171



EC HISTORY

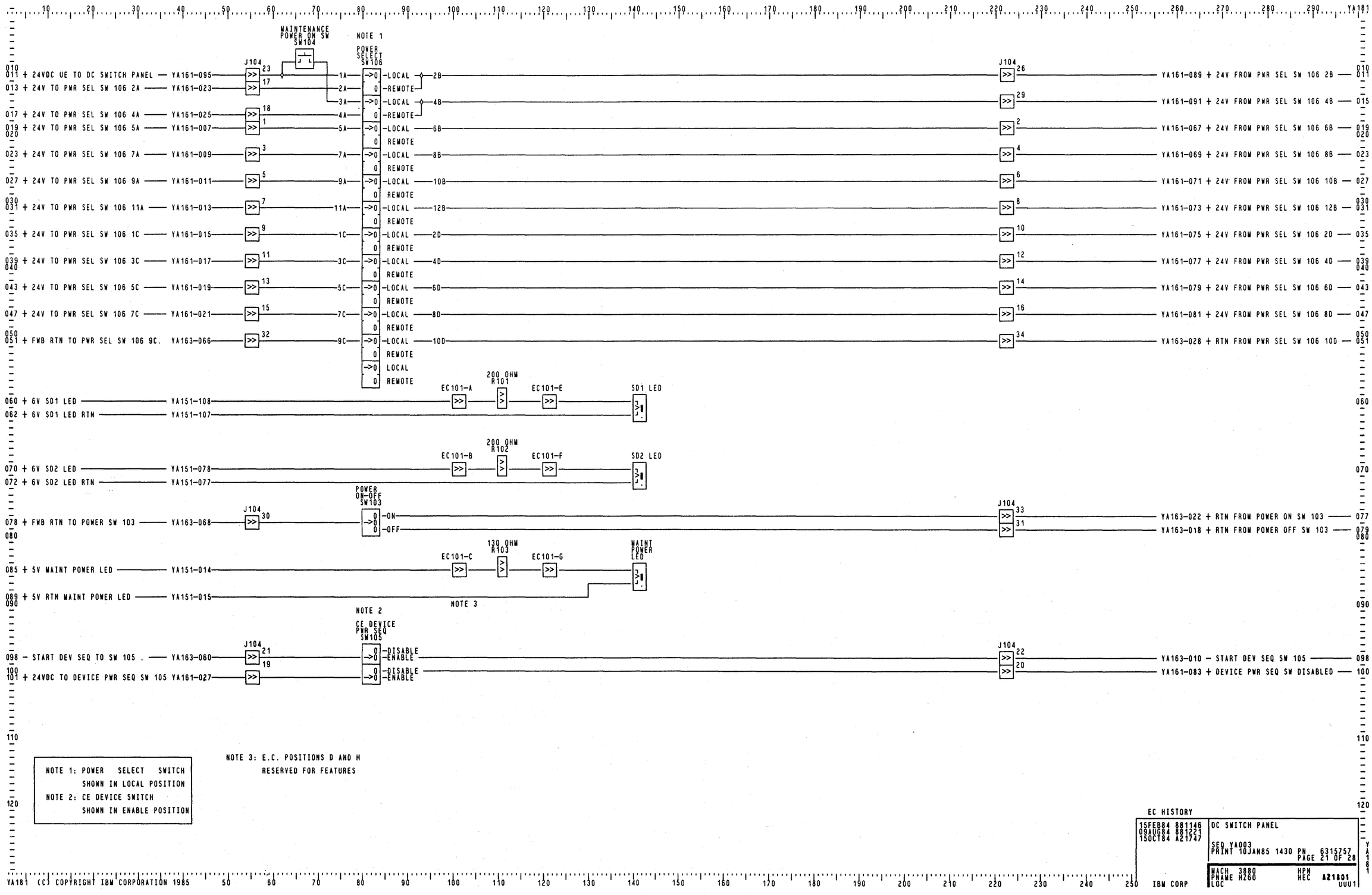
15FEB84	881146	2X1 LOCAL REMOTE SWITCH FEATURE
09AUG84	881221	
15OCT84	A21747	

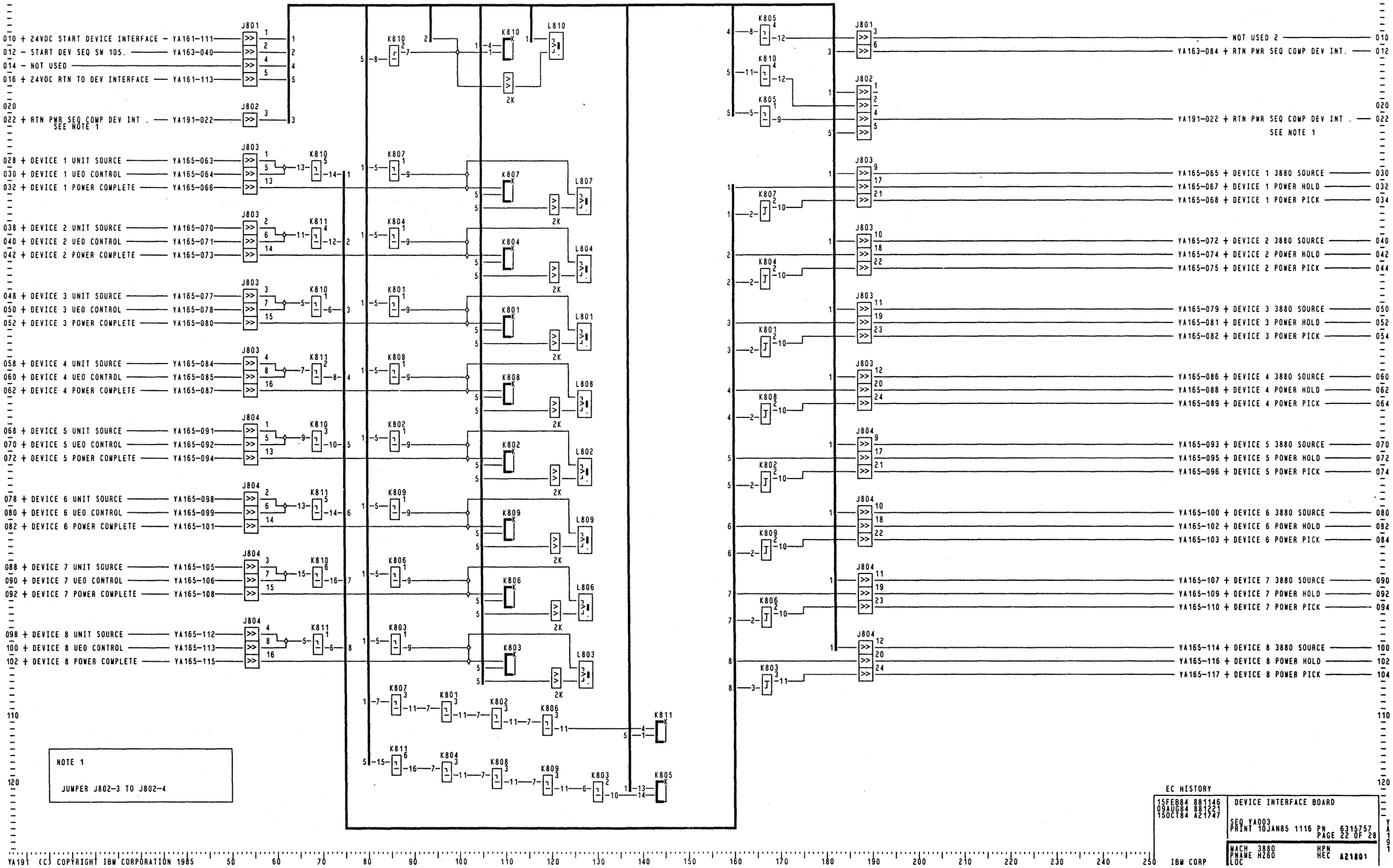
SEQ YA003
PRINT 10JAN85 0020 PN 6315757
PAGE 20 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

YA175


MAINTENANCE POWER ON SW SW104
NOTE 1
POWER SELECT SW106
J104
011 + 24VDC UE TO DC SWITCH PANEL — YA161-095
013 + 24V TO PWR SEL SW 106 2A — YA161-023
017 + 24V TO PWR SEL SW 106 4A — YA161-025
019 + 24V TO PWR SEL SW 106 5A — YA161-007
023 + 24V TO PWR SEL SW 106 7A — YA161-009
027 + 24V TO PWR SEL SW 106 9A — YA161-011
031 + 24V TO PWR SEL SW 106 11A — YA161-013
035 + 24V TO PWR SEL SW 106 1C — YA161-015
039 + 24V TO PWR SEL SW 106 3C — YA161-017
043 + 24V TO PWR SEL SW 106 5C — YA161-019
047 + 24V TO PWR SEL SW 106 7C — YA161-021
051 + FWB RTN TO PWR SEL SW 106 9C. YA163-066
LOCAL
REMOTE
2B
4B
6B
8B
10B
12B
2D
4D
6D
8D
10D
YA161-089 + 24V FROM PWR SEL SW 106 2B
YA161-091 + 24V FROM PWR SEL SW 106 4B
YA161-067 + 24V FROM PWR SEL SW 106 6B
YA161-069 + 24V FROM PWR SEL SW 106 8B
YA161-071 + 24V FROM PWR SEL SW 106 10B
YA161-073 + 24V FROM PWR SEL SW 106 12B
YA161-075 + 24V FROM PWR SEL SW 106 2D
YA161-077 + 24V FROM PWR SEL SW 106 4D
YA161-079 + 24V FROM PWR SEL SW 106 6D
YA161-081 + 24V FROM PWR SEL SW 106 8D
YA163-028 + RTN FROM PWR SEL SW 106 10D
060 + 6V SD1 LED — YA151-108
062 + 6V SD1 LED RTN — YA151-107
EC101-A
200 OHM R101
EC101-E
SD1 LED
070 + 6V SD2 LED — YA151-078
072 + 6V SD2 LED RTN — YA151-077
EC101-B
200 OHM R102
EC101-F
SD2 LED
POWER ON-OFF SW103
078 + FWB RTN TO POWER SW 103 — YA163-068
ON
OFF
YA163-022 + RTN FROM POWER ON SW 103
YA163-018 + RTN FROM POWER OFF SW 103
085 + 5V MAINT POWER LED — YA151-014
089 + 5V RTN MAINT POWER LED — YA151-015
EC101-C
130 OHM R103
EC101-G
MAINT POWER LED
NOTE 3
NOTE 2
CE DEVICE PWR SEQ SW105
098 — START DEV SEQ TO SW 105 . — YA163-060
101 + 24VDC TO DEVICE PWR SEQ SW 105 YA161-027
DISABLE
ENABLE
YA163-010 — START DEV SEQ SW 105
YA161-083 + DEVICE PWR SEQ SW DISABLED
NOTE 1: POWER SELECT SWITCH SHOWN IN LOCAL POSITION
NOTE 2: CE DEVICE SWITCH SHOWN IN ENABLE POSITION
NOTE 3: E.C. POSITIONS D AND H RESERVED FOR FEATURES
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
DC SWITCH PANEL
SEQ YA003
PRINT 10JAN85 1430 PN 6315757
PAGE 21 OF 28
MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC 0001
YA181 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP



EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

DEVICE INTERFACE BOARD

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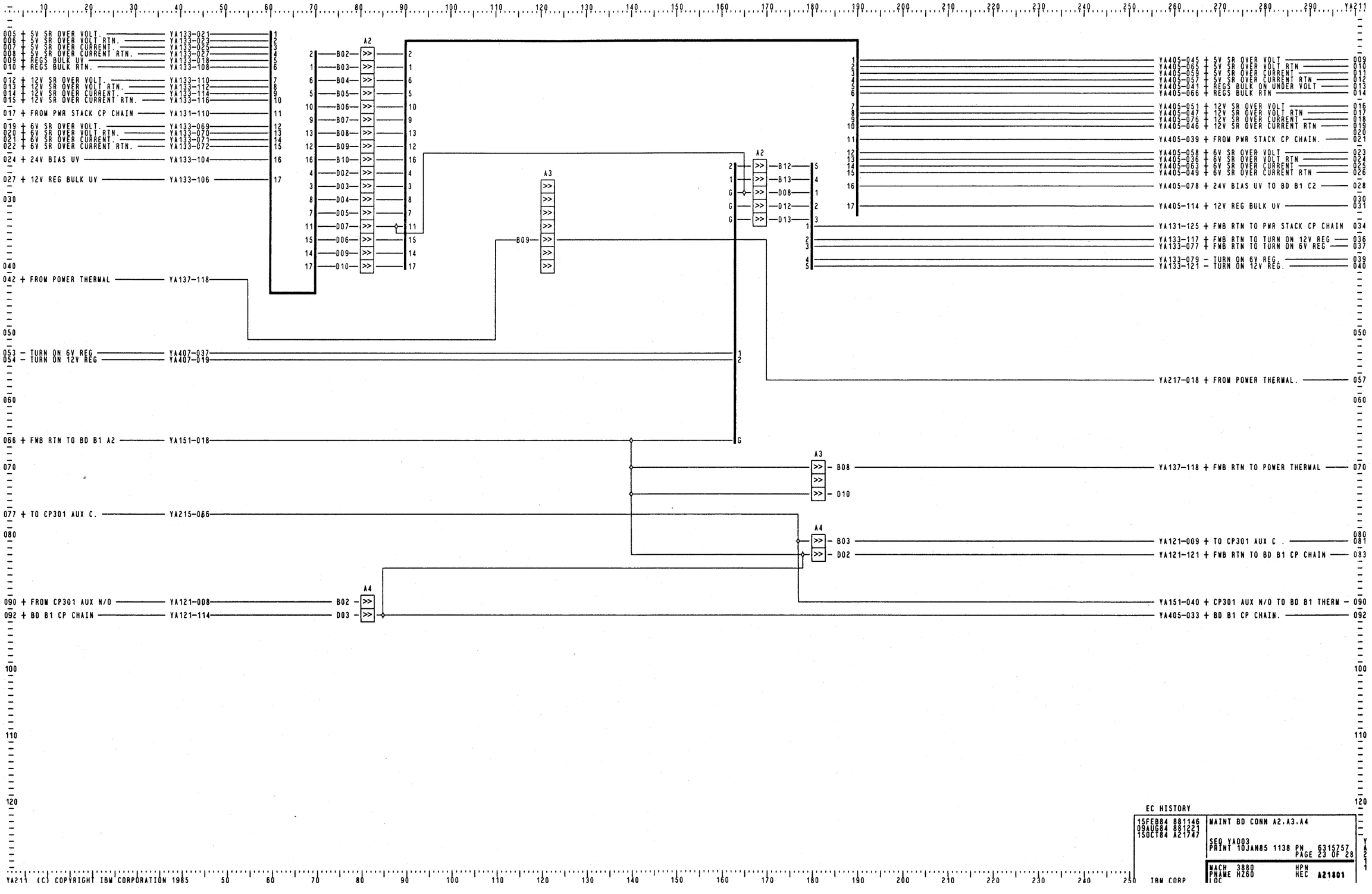
PRINT 10JAN85 1116 PN 6315757
PAGE 22 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC

IBM CORP

YA191



EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

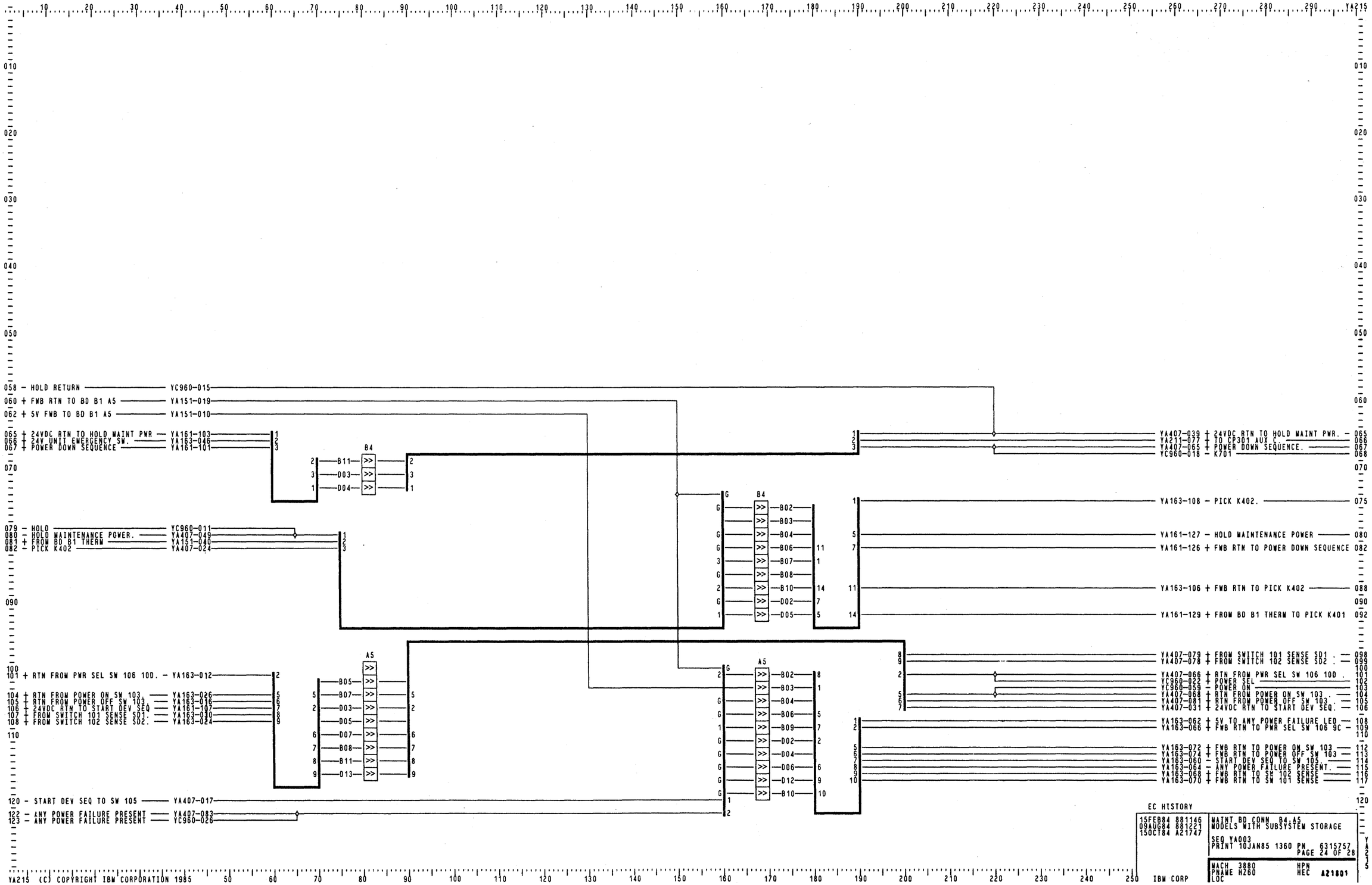
MAINT BD CONN A2.A3.A4

SEQ YA003
PRINT 10JAN85 1138 PN 6315757
PAGE 23 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

YA211

IBM CORP


058 - HOLD RETURN — YC960-015
060 + FWB RTN TO BD B1 A5 — YA151-019
062 + 5V FWB TO BD B1 A5 — YA151-010
065 + 24VDC RTN TO HOLD MAINT PWR — YA161-103
066 + 24V UNIT EMERGENCY SW. — YA163-046
067 + POWER DOWN SEQUENCE — YA161-101
B4
B11
D03
D04
079 - HOLD — YC960-011
080 - HOLD MAINTENANCE POWER. — YA407-049
081 + FROM BD B1 THERM — YA151-040
082 - PICK K402 — YA407-024
101 + RTN FROM PWR SEL SW 106 10D. - YA163-012
104 + RTN FROM POWER ON SW 103. — YA163-026
105 + RTN FROM POWER OFF SW 103. — YA163-016
106 + 24VDC RTN TO START DEV SEQ — YA161-107
107 + FROM SWITCH 101 SENSE SD1. — YA163-030
108 + FROM SWITCH 102 SENSE SD2. — YA163-024
A5
B05
B07
D03
D05
D07
B08
B11
D13
120 - START DEV SEQ TO SW 105 — YA407-017
122 - ANY POWER FAILURE PRESENT — YA407-083
123 - ANY POWER FAILURE PRESENT — YC960-026
YA407-039 + 24VDC RTN TO HOLD MAINT PWR. - 065
YA211-077 + TO CP301 AUX C. — 066
YA407-065 + POWER DOWN SEQUENCE. — 067
YC960-018 - K701 — 068
B4
B02
B03
B04
B06
B07
B08
B10
D02
D05
YA163-108 - PICK K402. — 075
YA161-127 - HOLD MAINTENANCE POWER — 080
YA161-126 + FWB RTN TO POWER DOWN SEQUENCE 082
YA163-106 + FWB RTN TO PICK K402 — 088
YA161-129 + FROM BD B1 THERM TO PICK K401 092
A5
B02
B03
B04
B06
B09
D02
D04
D06
D12
B10
YA407-079 + FROM SWITCH 101 SENSE SD1 : — 098
YA407-078 + FROM SWITCH 102 SENSE SD2 : — 099
YA407-066 + RTN FROM PWR SEL SW 106 10D . — 101
YC960-022 + POWER SEL — 102
YC960-059 - POWER ON — 103
YA407-068 + RTN FROM POWER ON SW 103 . — 104
YA407-081 + RTN FROM POWER OFF SW 103 . — 105
YA407-031 + 24VDC RTN TO START DEV SEQ. — 106
YA163-062 + 5V TO ANY POWER FAILURE LED — 108
YA163-066 + FWB RTN TO PWR SEL SW 106 9C — 109
YA163-072 + FWB RTN TO POWER ON SW 103 — 112
YA163-074 + FWB RTN TO POWER OFF SW 103 — 113
YA163-060 - START DEV SEQ TO SW 105. — 114
YA163-064 - ANY POWER FAILURE PRESENT. — 115
YA163-068 + FWB RTN TO SW 102 SENSE — 116
YA163-070 + FWB RTN TO SW 101 SENSE — 117
EC HISTORY
15FEB84 881146 MAINT BD CONN B4,A5
09AUG84 881221 MODELS WITH SUBSYSTEM STORAGE
15OCT84 A21747
SEQ YA003
PRINT 10JAN85 1360 PN 6315757
PAGE 24 OF 28
MACH 3880 HPN
PNAME H260 HEC A21801
LOC
IBM CORP
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EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

MAINT BD CONN Z2,Z3,Z4,Y4,V2
MODELS WITH SUBSYSTEM STORAGE

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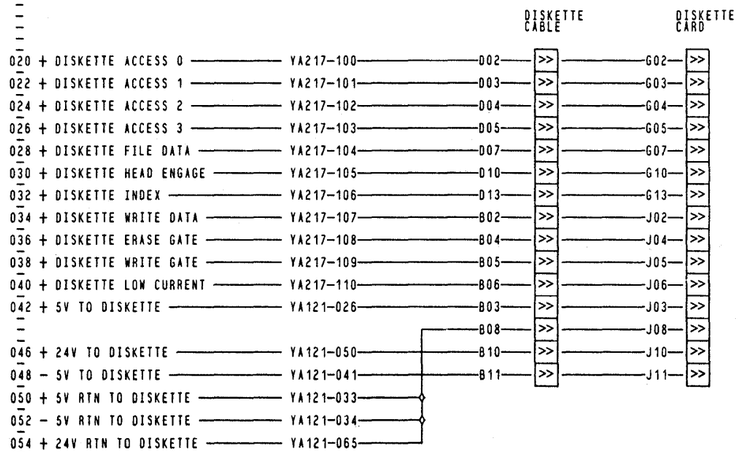
PAGE 25 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

YA217



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15OCT84 A21747	SEQ YA003
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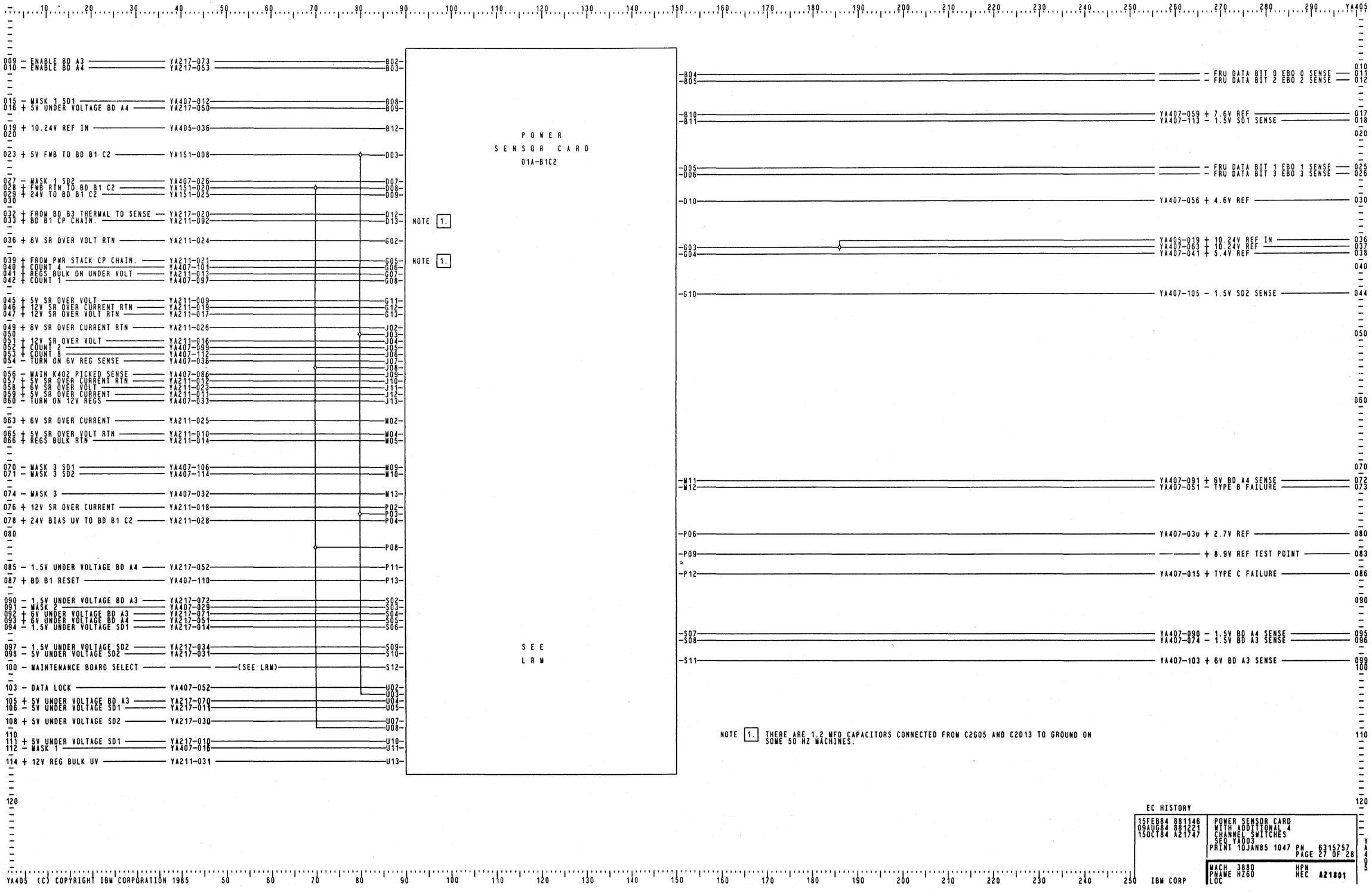
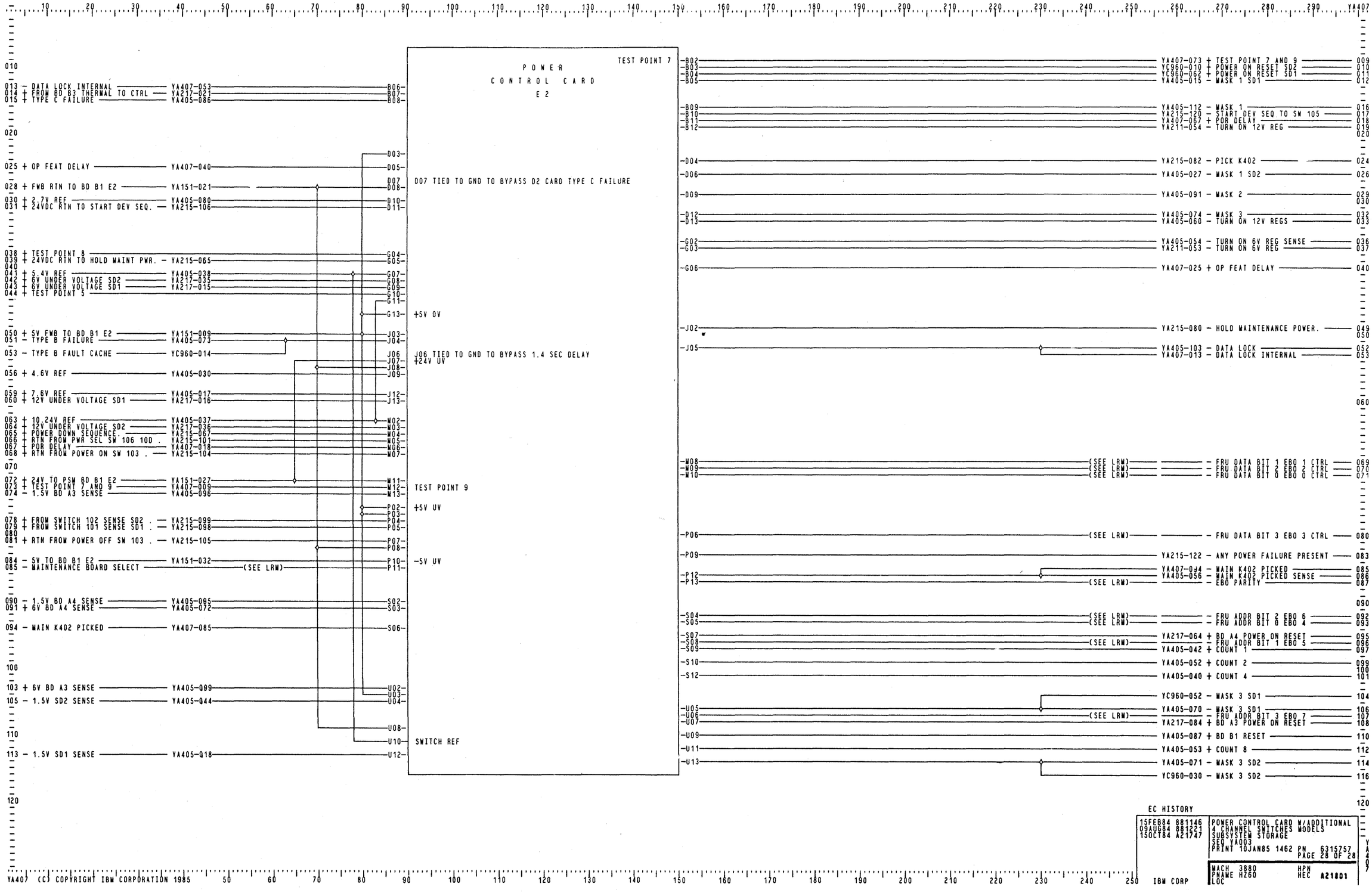
PNAME HZ60	HEC A21801
LOC	0001

IBM CORP

YA311


POWER
SENSOR CARD
01A-B1C2
SEE
LRM
009 - ENABLE BD A3 — YA217-073 — B02
010 - ENABLE BD A4 — YA217-053 — B03
015 - MASK 1 SD1 — YA407-012 — B08
016 + 5V UNDER VOLTAGE BD A4 — YA217-050 — B09
019 + 10.24V REF IN — YA405-036 — B12
023 + 5V FWB TO BD B1 C2 — YA151-008 — D03
027 - MASK 1 SD2 — YA407-026 — D07
028 + FWB RTN TO BD B1 C2 — YA151-020 — D08
029 + 24V TO BD B1 C2 — YA151-025 — D09
032 + FROM BD B3 THERMAL TO SENSE — YA217-020 — D12
033 + BD B1 CP CHAIN. — YA211-092 — D13
NOTE 1.
036 + 6V SR OVER VOLT RTN — YA211-024 — G02
039 + FROM PWR STACK CP CHAIN. — YA211-021 — G05
NOTE 1.
040 + COUNT 4 — YA407-101 — G06
041 + REGS BULK ON UNDER VOLT — YA211-013 — G07
042 + COUNT 1 — YA407-097 — G08
045 + 5V SR OVER VOLT — YA211-009 — G11
046 + 12V SR OVER CURRENT RTN — YA211-019 — G12
047 + 12V SR OVER VOLT RTN — YA211-017 — G13
049 + 6V SR OVER CURRENT RTN — YA211-026 — J02
050 — J03
051 + 12V SR OVER VOLT — YA211-016 — J04
052 + COUNT 2 — YA407-099 — J05
053 + COUNT 8 — YA407-112 — J06
054 - TURN ON 6V REG SENSE — YA407-036 — J07
J08
056 - MAIN K402 PICKED SENSE — YA407-086 — J09
057 + 5V SR OVER CURRENT RTN — YA211-012 — J10
058 + 6V SR OVER VOLT — YA211-023 — J11
059 + 5V SR OVER CURRENT — YA211-011 — J12
060 - TURN ON 12V REGS — YA407-033 — J13
063 + 6V SR OVER CURRENT — YA211-025 — M02
065 + 5V SR OVER VOLT RTN — YA211-010 — M04
066 + REGS BULK RTN — YA211-014 — M05
070 - MASK 3 SD1 — YA407-106 — M09
071 - MASK 3 SD2 — YA407-114 — M10
074 - MASK 3 — YA407-032 — M13
076 + 12V SR OVER CURRENT — YA211-018 — P02
P03
078 + 24V BIAS UV TO BD B1 C2 — YA211-028 — P04
P08
085 - 1.5V UNDER VOLTAGE BD A4 — YA217-052 — P11
087 + BD B1 RESET — YA407-110 — P13
090 - 1.5V UNDER VOLTAGE BD A3 — YA217-072 — S02
091 - MASK 2 — YA407-029 — S03
092 + 5V UNDER VOLTAGE BD A3 — YA217-071 — S04
093 + 6V UNDER VOLTAGE BD A4 — YA217-051 — S05
094 - 1.5V UNDER VOLTAGE SD1 — YA217-014 — S06
097 - 1.5V UNDER VOLTAGE SD2 — YA217-034 — S09
098 - 5V UNDER VOLTAGE SD2 — YA217-031 — S10
100 - MAINTENANCE BOARD SELECT — (SEE LRM) — S12
103 - DATA LOCK — YA407-052 — U02
U03
105 + 5V UNDER VOLTAGE BD A3 — YA217-070 — U04
106 - 5V UNDER VOLTAGE SD1 — YA217-011 — U05
108 + 5V UNDER VOLTAGE SD2 — YA217-030 — U07
U08
111 + 5V UNDER VOLTAGE SD1 — YA217-010 — U10
112 - MASK 1 — YA407-016 — U11
114 + 12V REG BULK UV — YA211-031 — U13
B04 — - FRU DATA BIT 0 EBO 0 SENSE — 010
B05 — - FRU DATA BIT 2 EBO 2 SENSE — 012
B10 — YA407-059 + 7.6V REF — 017
B11 — YA407-113 - 1.5V SD1 SENSE — 018
D05 — - FRU DATA BIT 1 EBO 1 SENSE — 025
D06 — - FRU DATA BIT 3 EBO 3 SENSE — 026
D10 — YA407-056 + 4.6V REF — 030
G03 — YA405-019 + 10.24V REF IN — 036
G04 — YA407-063 + 10.24V REF — 037
YA407-041 + 5.4V REF — 038
G10 — YA407-105 - 1.5V SD2 SENSE — 044
M11 — YA407-091 + 6V BD A4 SENSE — 072
M12 — YA407-051 - TYPE B FAILURE — 073
P06 — YA407-030 + 2.7V REF — 080
P09 — + 8.9V REF TEST POINT — 083
P12 — YA407-015 + TYPE C FAILURE — 086
S07 — YA407-090 - 1.5V BD A4 SENSE — 095
S08 — YA407-074 - 1.5V BD A3 SENSE — 096
S11 — YA407-103 + 6V BD A3 SENSE — 099
NOTE 1. THERE ARE 1.2 MFD CAPACITORS CONNECTED FROM C2G05 AND C2D13 TO GROUND ON SOME 50 HZ MACHINES.
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
POWER SENSOR CARD
WITH ADDITIONAL 4
CHANNEL SWITCHES
SEQ YA003
PRINT 10JAN85 1047 PN 6315757
PAGE 27 OF 28
MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC
YA405 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA405


POWER
CONTROL CARD
E2
TEST POINT 7
D07 TIED TO GND TO BYPASS D2 CARD TYPE C FAILURE
+5V OV
J06 TIED TO GND TO BYPASS 1.4 SEC DELAY
+24V UV
TEST POINT 9
+5V UV
-5V UV
SWITCH REF
013 - DATA LOCK INTERNAL — YA407-053 — B06
014 + FROM BD B3 THERMAL TO CTRL — YA217-021 — B07
015 + TYPE C FAILURE — YA405-086 — B08
025 + OP FEAT DELAY — YA407-040 — D05
028 + FWB RTN TO BD B1 E2 — YA151-021 — D08
030 + 2.7V REF — YA405-080 — D10
031 + 24VDC RTN TO START DEV SEQ. — YA215-106 — D11
038 + TEST POINT 8 — G04
039 + 24VDC RTN TO HOLD MAINT PWR. — YA215-065 — G05
041 + 5.4V REF — YA405-038 — G07
042 + 6V UNDER VOLTAGE SD2 — YA217-035 — G08
043 + 6V UNDER VOLTAGE SD1 — YA217-015 — G09
044 + TEST POINT 5 — G10
050 + 5V FWB TO BD B1 E2 — YA151-009 — J03
051 - TYPE B FAILURE — YA405-073 — J04
053 - TYPE B FAULT CACHE — YC960-014 — J06
056 + 4.6V REF — YA405-030 — J09
059 + 7.6V REF — YA405-017 — J12
060 + 12V UNDER VOLTAGE SD1 — YA217-016 — J13
063 + 10.24V REF — YA405-037 — M02
064 + 12V UNDER VOLTAGE SD2 — YA217-036 — M03
065 + POWER DOWN SEQUENCE — YA215-067 — M04
066 + RTN FROM PWR SEL SW 106 10D . — YA215-101 — M05
067 + POR DELAY — YA407-018 — M06
068 + RTN FROM POWER ON SW 103 . — YA215-104 — M07
072 + 24V TO PSM BD B1 E2 — YA151-027 — M11
073 + TEST POINT 7 AND 9 — YA407-009 — M12
074 - 1.5V BD A3 SENSE — YA405-096 — M13
078 + FROM SWITCH 102 SENSE SD2 — YA215-099 — P02
079 + FROM SWITCH 101 SENSE SD1 — YA215-098 — P04
081 + RTN FROM POWER OFF SW 103 . — YA215-105 — P05
084 - 5V TO BD B1 E2 — YA151-032 — P07
085 - MAINTENANCE BOARD SELECT — (SEE LRM) — P08
090 - 1.5V BD A4 SENSE — YA405-095 — P10
091 + 6V BD A4 SENSE — YA405-072 — P11
094 - MAIN K402 PICKED — YA407-085 — S02
103 + 6V BD A3 SENSE — YA405-099 — S03
105 - 1.5V SD2 SENSE — YA405-044 — S06
113 - 1.5V SD1 SENSE — YA405-018 — U02
U03
U04
U08
U10
U12
B02 — YA407-073 + TEST POINT 7 AND 9 — 009
B03 — YC960-010 + POWER ON RESET SD2 — 010
B04 — YC960-062 + POWER ON RESET SD1 — 011
B05 — YA405-015 - MASK 1 SD1 — 012
B09 — YA405-112 - MASK 1 — 016
B10 — YA215-120 - START DEV SEQ. TO SW 105 — 017
B11 — YA407-067 + POR DELAY — 018
B12 — YA211-054 - TURN ON 12V REG — 019
D04 — YA215-082 - PICK K402 — 024
D06 — YA405-027 - MASK 1 SD2 — 026
D09 — YA405-091 - MASK 2 — 029
D12 — YA405-074 - MASK 3 — 032
D13 — YA405-060 - TURN ON 12V REGS — 033
G02 — YA405-054 - TURN ON 6V REG SENSE — 036
G03 — YA211-053 - TURN ON 6V REG — 037
G06 — YA407-025 + OP FEAT DELAY — 040
J02 — YA215-080 - HOLD MAINTENANCE POWER. — 049
J05 — YA405-103 - DATA LOCK — 052
YA407-013 - DATA LOCK INTERNAL — 053
M08 — (SEE LRM) — - FRU DATA BIT 1 EBO 1 CTRL — 069
M09 — (SEE LRM) — - FRU DATA BIT 2 EBO 2 CTRL — 070
M10 — (SEE LRM) — - FRU DATA BIT 0 EBO 0 CTRL — 071
P06 — (SEE LRM) — - FRU DATA BIT 3 EBO 3 CTRL — 080
P09 — YA215-122 - ANY POWER FAILURE PRESENT — 083
YA407-044 - MAIN K402 PICKED — 085
P12 — YA405-056 - MAIN K402 PICKED SENSE — 086
P13 — (SEE LRM) — - EBO PARITY — 087
S04 — (SEE LRM) — - FRU ADDR BIT 2 EBO 6 — 092
S05 — (SEE LRM) — - FRU ADDR BIT 0 EBO 4 — 093
S07 — YA217-064 + BD A4 POWER ON RESET — 095
S08 — (SEE LRM) — - FRU ADDR BIT 1 EBO 5 — 096
S09 — YA405-042 + COUNT 1 — 097
S10 — YA405-052 + COUNT 2 — 099
S12 — YA405-040 + COUNT 4 — 101
YC960-052 - MASK 3 SD1 — 104
U05 — YA405-070 - MASK 3 SD1 — 106
U06 — (SEE LRM) — - FRU ADDR BIT 3 EBO 7 — 107
U07 — YA217-084 + BD A3 POWER ON RESET — 108
U09 — YA405-087 + BD B1 RESET — 110
U11 — YA405-053 + COUNT 8 — 112
U13 — YA405-071 - MASK 3 SD2 — 114
YC960-030 - MASK 3 SD2 — 116
EC HISTORY
15FEB84 881146
09AUG84 881221
13OCT84 A21747
POWER CONTROL CARD W/ADDITIONAL 4 CHANNEL SWITCHES MODELS
SUBSYSTEM STORAGE
SEQ YA003
PRINT 10JAN85 1462 PN 6315757
PAGE 28 OF 28
MACH 3880
PNAME HZ60
LOC
HPN
HEC A21801
YA407 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA407

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4 CH

P/N 6315758

SUBSYSTEM STORAGE POWER

P/N 6315753

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

INDEX TABLE OF CONTENTS
MODELS WITH SUBSYSTEM STORAGE

SEQ YA005
PRINT 10JAN85 1613 PN 6315758
PAGE 1 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

DISKETTE

CENTRAL
POWER
CONTROL

PN 2342964

DEVICE
INTERFACE

PN 4797125

5V REG ASM
PN 4797595

FAN

6V REG

PN 2342734

MULTI-LEVEL
REG

PN 2290588

SD AUX POWER CXX
(USED WITH SUBSYSTEM STORAGE)

REG C10

REG C20

FAN

SUBSYSTEM STORAGE BXX
CACHE POWER

REG B10

REG B20

REG B30

REG B40

FAN

MAINTENANCE
SUPPLY

SUBSYSTEM STORAGE AXX
AC/CNTL POWER

REG A20

CIRCUIT PROTECTOR PANEL

DC BULK POWER

AC POWER BOX

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

POWER GROUP LOCATION
MODELS WITH SUBSYSTEM STORAGE

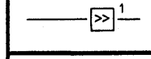
SEQ YA005
PRINT 10JAN85 1362 PN 6315758
PAGE 2 OF 28

MACH 3880 HPN
PNAME H260 REC A21801
LOC

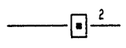
IBM CORP

YA020

SLIP ON CONNECTOR

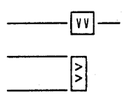


SCREW TYPE TERMINAL

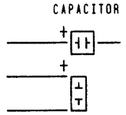


"PIGGY BACK" SLIP ON CONNECTOR

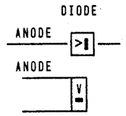
RESISTOR



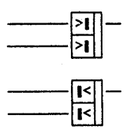
CAPACITOR



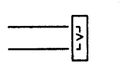
DIODE



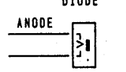
RECTIFIER



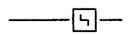
INCANDESCENT LIGHT



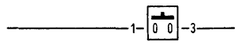
LIGHT EMITTING DIODE



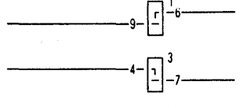
FUSE



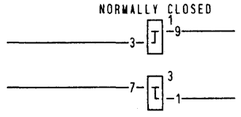
CONTACTOR



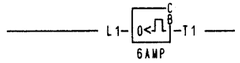
RELAY POINTS NORMALLY OPEN



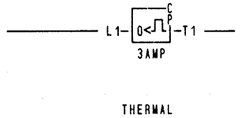
NORMALLY CLOSED



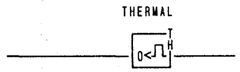
6 AMP CIRCUIT BREAKER



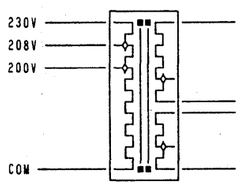
3 AMP CIRCUIT PROTECTOR



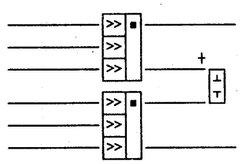
THERMAL



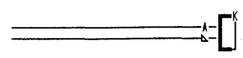
TRANSFORMER



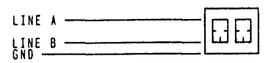
SCREW TYPE CAPACITOR WITH SLIP ON CONNECTORS



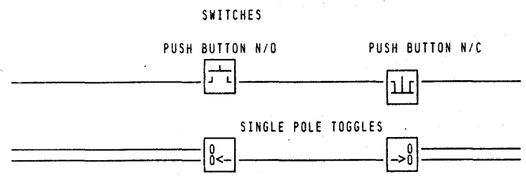
CONTACTOR COIL OR RELAY COIL



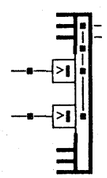
CONVENIENCE OUTLET



SWITCHES

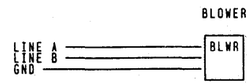


HEAT SINK WITH DIODES WHERE HEAT SINK IS PART OF ELECTRICAL CONNECTION

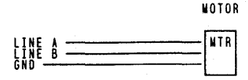


BUSS BAR

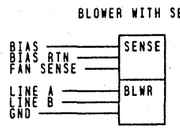
BLOWER



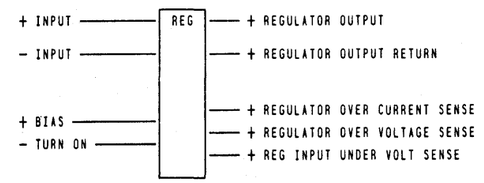
MOTOR



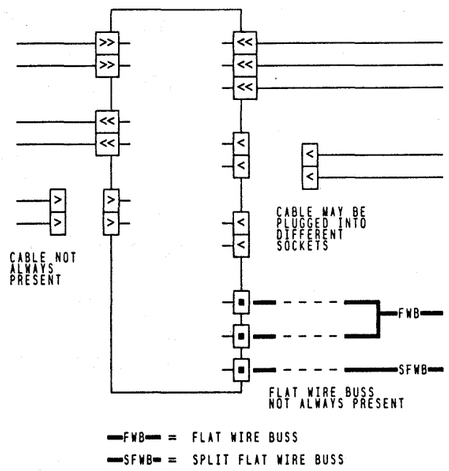
BLOWER WITH SENSE



DC REGULATOR



PRINTED CIRCUIT BOARD WITH CABLE CONNECTORS



+ SIGN NEAR A CAPACITOR INDICATES POLARITY

NUMBERS NEXT TO SLIP ON CONNECTORS, SCREW TYPE TERMINALS, AND RELAY POINTS INDICATE POSITION.

ALPHA/NUMERIC CHARACTERS IN THE LINE INDICATE ACTUAL PIN DESIGNATIONS ON RELAYS, SWITCHES, CIRCUIT PROTECTORS, ETC.

COMPONENTS WITH DESIGNATION
1XX FOUND ON YA137,YA181 AND YB180
2XX FOUND ON YA131
3XX FOUND ON YA121
4XX FOUND ON YA111 AND YA115
5XX FOUND ON YA171
7XX FOUND ON YA161 AND YA163
8XX FOUND ON YA191
AXX FOUND ON YC200,YC300,YC400,YC500,YC900
BXX FOUND ON YC320,YC600,YC620,YC700,YC720
CXX FOUND ON YC800,YC820,YC830,YC900

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

SYMBOLS USED IN POWER DIAGRAMS
MODELS WITH SUBSYSTEM STORAGE

SEQ YA005
PRINT 10JAN85 1802 PN 6315758
PAGE 3 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

YA100

IBM CORP

+ 24V BOOTSTRAP

+ 24V DC

NOTE [1] : CP406 AUX CONTACT IS PRESENT ONLY FOR 50HZ. NOT JAPAN.

NOTE [2] FOR DUAL FRAME CONFIGURATION. THE UE SWITCH SW501 IS WIRED AS SHOWN BELOW.

NOTE [3] THIS DIODE NOT INSTALLED ON SOME EARLIER MACHINES.

NOTE [4] MAY BE REMOVED ON SOME MACHINES.

CP401 — SAFETY INTLK — CP406 AUX — J401-1 — NOTE [1]

SW501 UE — NOTE [2] — EN / DIS

CP301 AUX — A4-B02 — BD B1 — B4-B10 — J705-8 — J704-6 — J401-10 — K402

CR704 — NOTE [3]

J401-8 — J704-8 — J705-18 — B4-B07 — E2D04 — PICK K402

K404 — K401

R504 — L502 — PWR SEQ COMP LED

K701-1 — K702-1 — K701-2

J704-18 — J401-7

J703-12 — R503 — L503 — POWER ON LED

J701-19 — J104-19 — SW105 CE DEV PWR SEQ — J104-20 — J701-20 — CR705 — DIS

J709-1 — J801-1 — K810

J801-2 — J709-2 — J702-2 — J104-22 — SW105 CE DEV PWR SEQ — EN — J104-21 — J702-1 — K810-2

J708-1 — A5-B09 — E2B10 — START DEV SEQ TO SW 105

J706-5 — H1-2 — HOST HOLD JUMPER — H1-5 — J706-17 — J701-17 — J104-17 — SW106 POWER SELECT — REM / 2A / 1A / LOC — J104-26 — J702-8 — K701-3 — J703-6 — SW502 POWER OFF — J703-10

K702 — J705-3 — B4-D05 — E2J02 — HOLD MAINTENANCE POWER.

J702-4 — J104-23 — MAINT PWR ON — SW106 POWER SELECT — LOC / 3A / 4A / REM — J104-29 — J702-12

SW502 POWER ON — J703-9 — J703-4

K701 — J708-2 — A5-B08 — E2D11 — + 24VDC RTN TO START DEV SEQ.

3880 PWR. SEQ. COMPL.

K703 — K704

J706-1 — H1-1 — PICK — H1-6 — J706-21 — J701-18 — J104-18

J703-8 — J705-7 — B4-D04 — E2605 — + 24VDC RTN TO HOLD MAINT PWR.

J703-11 — SW501 UE — EN / DIS — J703-5 — J709-6 — J801-6 — J802-3 — JUMPER — J802-4 — K805-1

J801-5 — J709-5 — J704-2 — J401-4 — + 24V RTN

J703-3 — J703-7 — R504 — SWITCH IN THE OTHER 3880

B4-B06 — J705-17 — J704-9 — J401-9

A5-B10 — J708-20 — J702-10 — J104-28 — E12 — SW101 — F9 — J104-27 — J702-9 — J708-19 — A5-B11 — E2P05 — + SWITCH 101 SD1

A5-D12 — J708-12 — J702-6 — J104-25 — E12 — SW102 — F9 — J104-24 — J702-5 — J708-16 — A5-D13 — E2P04 — + SWITCH 102 SD2

B4-D02 — J705-2 — K701-4 — J705-1 — B4-D03 — E2W04 — + POWER DOWN SEQUENCE.

A5-B06 — J708-18 — SW103 DC PWR ON/OFF — ON / OFF — J104-33 — J702-17 — J708-17 — A5-B07 — E2W07 — + RTN FROM POWER ON SW 103 .

J702-13 — J104-30

A5-D06 — J708-15 — J104-31 — J702-14 — J708-11 — A5-D07 — E2P07 — + RTN FROM POWER OFF SW 103 .

A5-D02 — J708-6 — J702-16 — J104-32 — SW106 POWER SELECT — LOC / 9C — 10D — J104-34 — J702-20 — J708-9 — A5-D03 — E2W05 — + RTN FROM PWR SEL SW 106 10D .

B4-B02 — J705-13 — J704-13 — J401-12 — REM — AUX CP304 — AUX CP303 — AUX CP302 — A4-D03 — C2D13 — + BD B1 CP CHAIN.

A4-D02 — A2-D07 — C2G05 — + FROM PWR STACK TO CP CHAIN.

A2-D08 — AUX CP210 — AUX CP208 — AUX CP207 — AUX CP206 — AUX CP205 — AUX CP203 — AUX CP201 — NOTE 4 — C2D12 — + FROM BD B3 THERMAL TO SENSE — E2B07 — + FROM BD B3 THERMAL TO CTRL

A3-B08 — PS1 — A3-B09 — F6-E04 — BD A3 — BD B3 — F6-C04

12V REG — J5-9 — A2-B12 — E2B12 — TURN ON 12V REG

6V REG — J1-7 — A2-B13 — E2G03 — TURN ON 6V REG

A5-B03 — J708-3 — R705 — J703-2 — POWER CHECK LED — + 5V ANY POWER FAILURE

A5-B02 — J708-5 — J703-1 — E2P09 — ANY POWER FAILURE PRESENT

EC HISTORY

15FEB84 881146	+ 24V SCHEMATIC
09AUG84 881221	22 CARD SD
15OCT84 A21747	

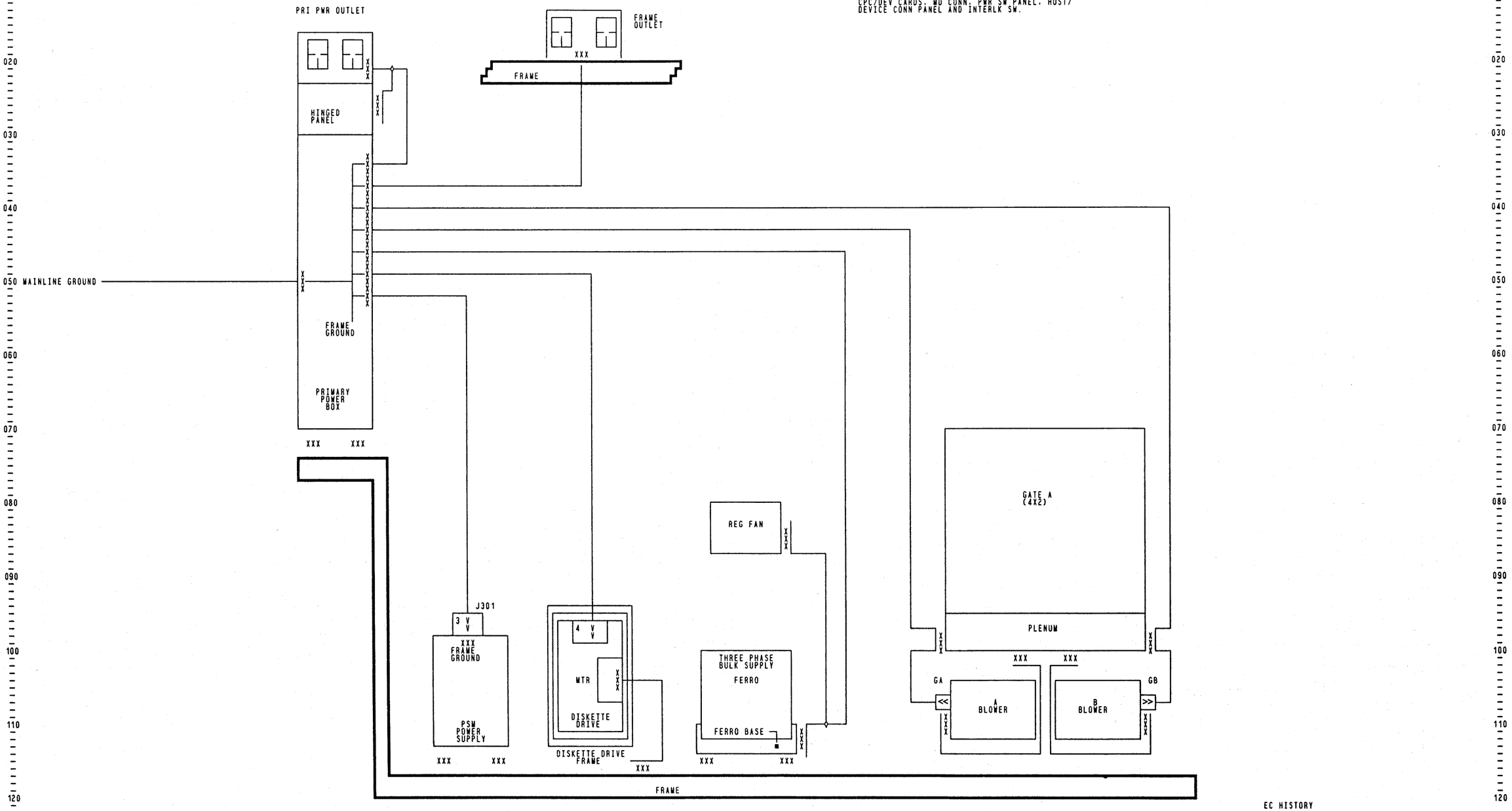
SEQ YA005
PRINT 10JAN85 1598 PN 6315758
PAGE 4 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

IBM CORP

NOTES:

1. XXX DENOTES EXTERNAL STAR WASHER.
2. THE FOLLOWING ASM'S DO NOT REQUIRE SAFETY GROUNDING: BULK, CP PANEL, REGULATORS, OP PANEL, CPC/DEV CARDS, WD CONN, PWR SW PANEL, HOST/ DEVICE CONN PANEL AND INTERLK SW.



EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

BLOCK DIAGRAM
GROUNDING SCHEMATIC

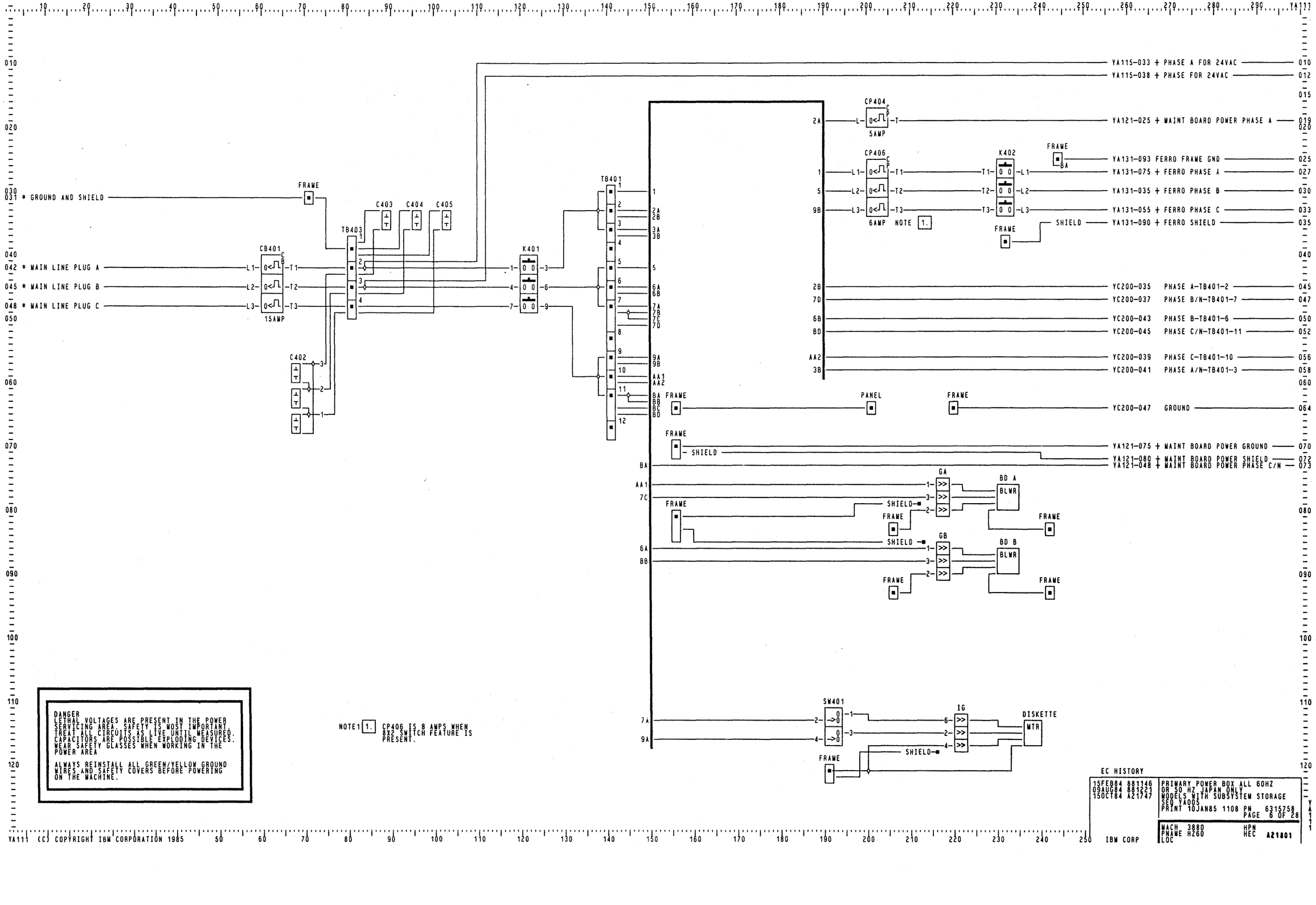
SEQ YA005
PRINT 10JAN85 0039 PN 6315758
PAGE 5 OF 28

MACH
PNAME HZ60
LOC

HPN
HEC A21801

YA110

IBM CORP



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

NOTE1 [1.] CP406 IS 8 AMPS WHEN 8X2 SWITCH FEATURE IS PRESENT.

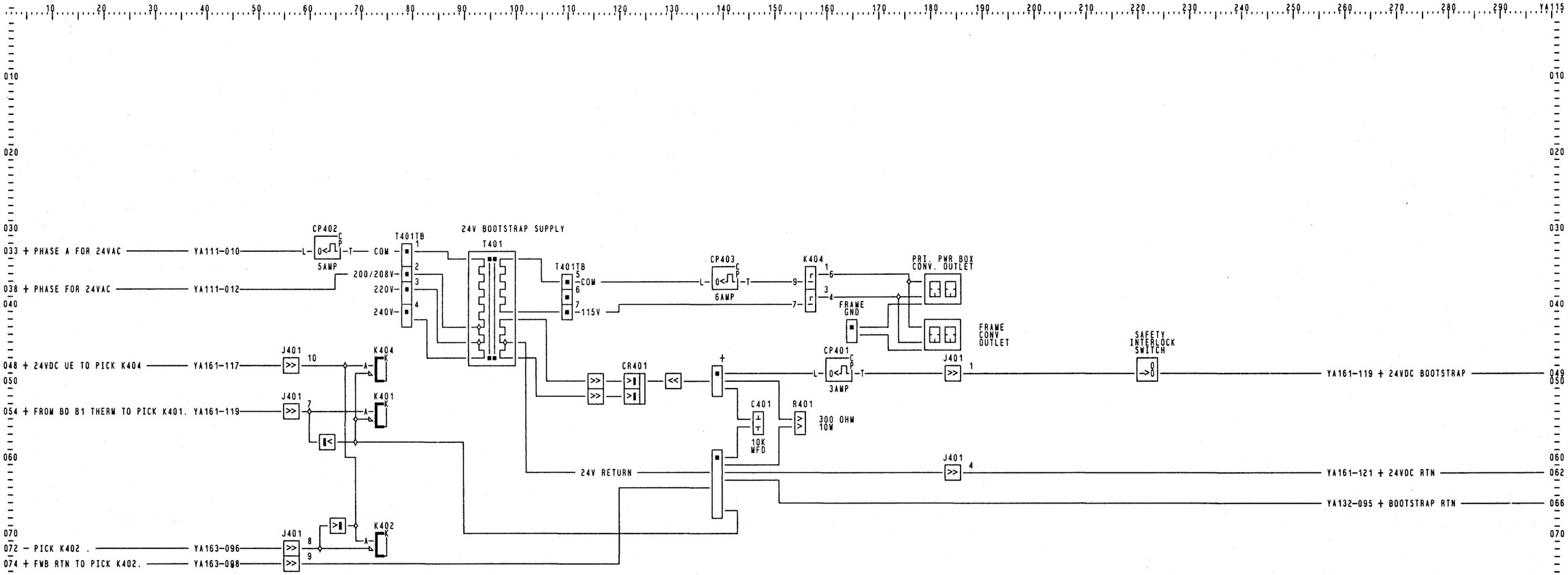
EC HISTORY

15FEB84 881146	PRIMARY POWER BOX ALL 60HZ
09AUG84 881221	OR 50 HZ JAPAN ONLY
15OCT84 A21747	MODELS WITH SUBSYSTEM STORAGE

SEQ YA005
PRINT 10JAN85 1108 PN 6315758
PAGE 6 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC

IBM CORP



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

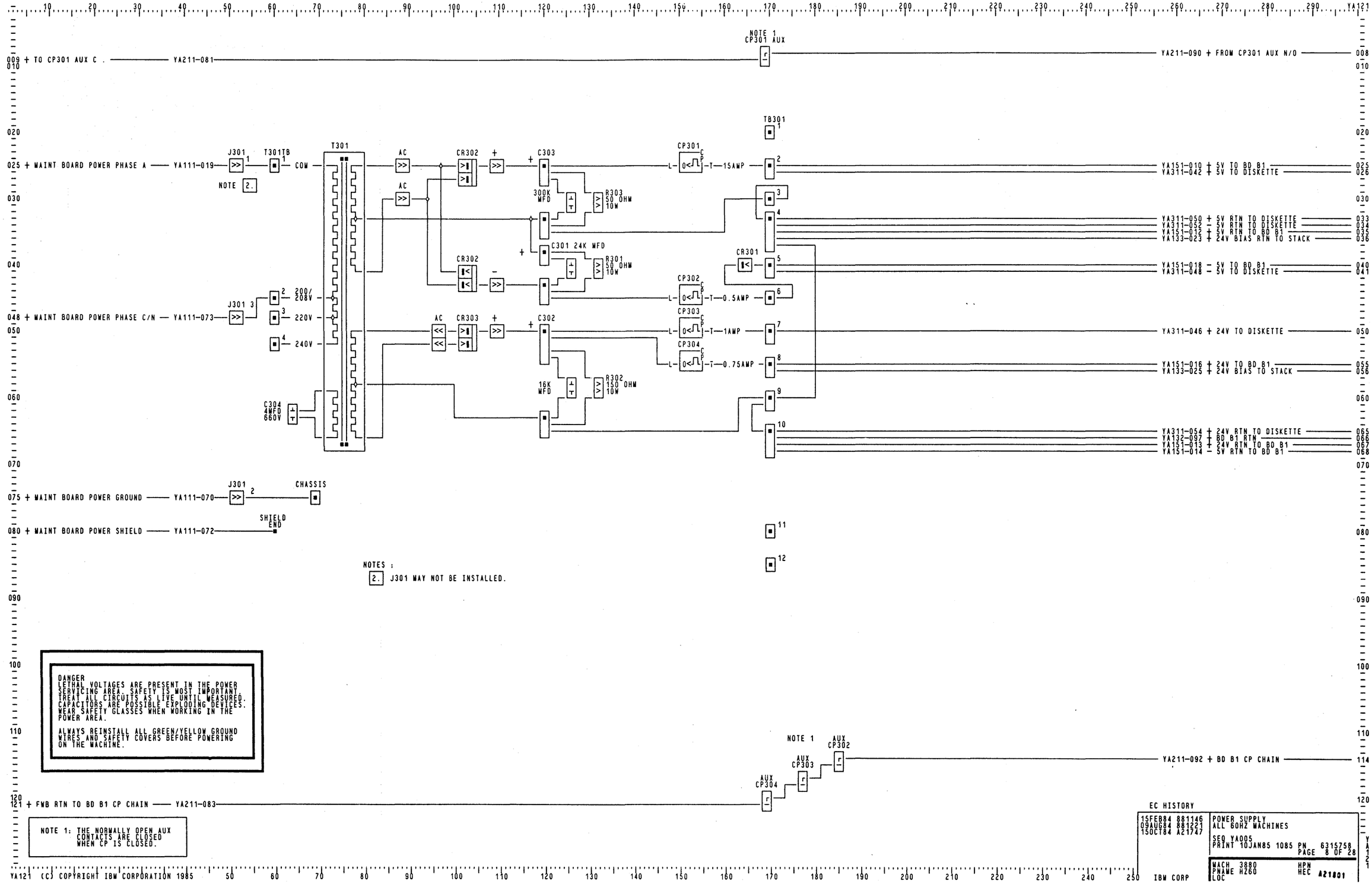
ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146	PRIMARY POWER BOX CONTROLS
09AUG84 881221	ALL 60HZ MACHINES
15OCT84 A21747	OR 50HZ JAPAN
	SEQ YA005
	PRINT 10JAN85 1587 PN 6315758
	PAGE 7 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC

IBM CORP
YA115


NOTE 1
CP301 AUX
+ TO CP301 AUX C . — YA211-081
YA211-090 + FROM CP301 AUX N/O
TB301
+ MAINT BOARD POWER PHASE A — YA111-019
J301
T301TB
COM
NOTE 2.
T301
AC
CR302
C303
300K MFD
R303 50 OHM 10W
CP301
15AMP
YA151-010 + 5V TO BD B1
YA311-042 + 5V TO DISKETTE
C301 24K MFD
R301 50 OHM 10W
YA311-050 + 5V RTN TO DISKETTE
YA311-052 - 5V RTN TO DISKETTE
YA151-012 + 5V RTN TO BD B1
YA133-023 + 24V BIAS RTN TO STACK
CR301
CP302
0.5AMP
YA151-018 - 5V TO BD B1
YA311-048 - 5V TO DISKETTE
+ MAINT BOARD POWER PHASE C/N — YA111-073
J301 3
2 200/208V
3 220V
4 240V
CR303
C302
CP303
1AMP
YA311-046 + 24V TO DISKETTE
CP304
0.75AMP
16K MFD
R302 150 OHM 10W
YA151-016 + 24V TO BD B1
YA133-025 + 24V BIAS TO STACK
C304 4MFD 660V
YA311-054 + 24V RTN TO DISKETTE
YA132-097 + BD B1 RTN
YA151-013 + 24V RTN TO BD B1
YA151-014 - 5V RTN TO BD B1
+ MAINT BOARD POWER GROUND — YA111-070
CHASSIS
+ MAINT BOARD POWER SHIELD — YA111-072
SHIELD END
NOTES :
2. J301 MAY NOT BE INSTALLED.
DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.
ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.
NOTE 1
AUX CP302
AUX CP303
AUX CP304
YA211-092 + BD B1 CP CHAIN
+ FWB RTN TO BD B1 CP CHAIN — YA211-083
NOTE 1: THE NORMALLY OPEN AUX CONTACTS ARE CLOSED WHEN CP IS CLOSED.
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
POWER SUPPLY
ALL 60HZ MACHINES
SEQ YA005
PRINT 10JAN85 1085 PN 6315758
PAGE 8 OF 28
MACH 3880
PNAME HZ60
LOC
HPN
HEC A21801
IBM CORP
YA121 (C) COPYRIGHT IBM CORPORATION 1985

60HZ DELTA JUMPERS FOR TB201	240V	220V	200/208V
	-2 TO -1 -6 TO -5 -10 TO -9	-2 TO -3 -6 TO -7 -10 TO -11	-2 TO -4 -6 TO -8 -10 TO -12

ONLY ONE SET OF JUMPERS MUST BE INSTALLED

TB201

T201

T202

T203

C201 5MFD 660V

C202 5MFD 660V

C203 5MFD 660V

C204 54K MFD 10V

50 OHM 10W

AC CR207

AC CR208

AC CR209

PS

BLWR

FRAME GND

SHIELD END

035 + FERRO PHASE B — YA111-030

055 + FERRO PHASE C — YA111-033

075 + FERRO PHASE A — YA111-027

090 + FERRO SHIELD — YA111-035

093 FERRO FRAME GND — YA111-025

125 + FWB RTN TO PWR STACK CP CHAIN YA211-034

NOTE:
SOME EARLY MACHINES MAY HAVE WIRE 16 ON TB201-10.

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELL GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

YA132-047 BULK AC 1

YA132-051 BULK AC 2

YA132-055 BULK AC 3

YA132-059 BULK AC 4

YA132-063 BULK AC 5

YA132-067 BULK AC 6

YA132-033 CNTR TAP A

YA132-035 CNTR TAP A1

YA132-037 CNTR TAP B

YA132-039 CNTR TAP B1

YA132-041 CNTR TAP C

YA132-043 CNTR TAP C1

YC800-040 PHASE B TO AUX SD SUPPLY

YC800-042 PHASE A TO AUX SD SUPPLY

FRAME

YC800-044 GROUND

YC800-048 SHIELD

YA132-091 - 5V BULK RTN

YA133-097 - 5V BULK RTN MULTI

YA137-030 - 5V RTN TO BD B4.

YA137-046 - 5V RTN TO BD B3.

-5V CP205

1.5 AMP — YA137-028 - 5V TO SD1 SW

CP207 MAY NOT BE REMOVED ON SOME MACHINES

-5V CP207

2.5 AMP — YA133-091 - 5V BULD FOR MULTI

-5V CP210

1.5 AMP — YA137-044 - 5V TO SD2 SW

YA211-017 + FROM PWR STACK CP CHAIN

AUX CP201

AUX CP203

AUX CP205

AUX CP206

AUX CP207

AUX CP208

AUX CP210

AUX CPS MAY NOT BE REMOVED ON SOME MACHINES

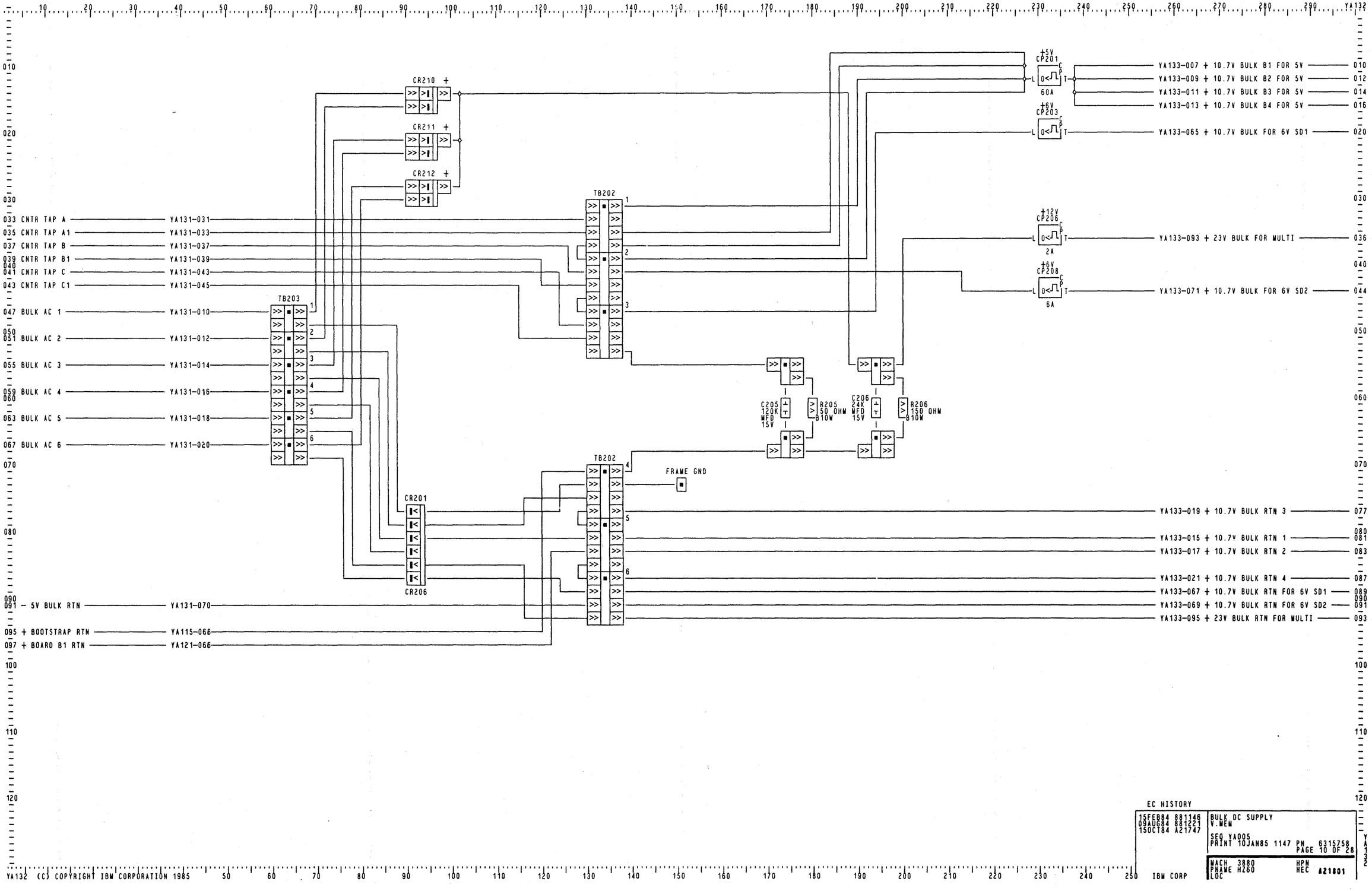
EC HISTORY

15FEB84 881146 09AUG84 881221 15OCT84 A21747	DC BULK SUPPLIES - NEGATIVE ALL 60HZ MACHINES MODELS WITH SUBSYSTEM STORAGE SEO YA005 PRINT 08JAN85 1078 PN 6315758 PAGE 9 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC

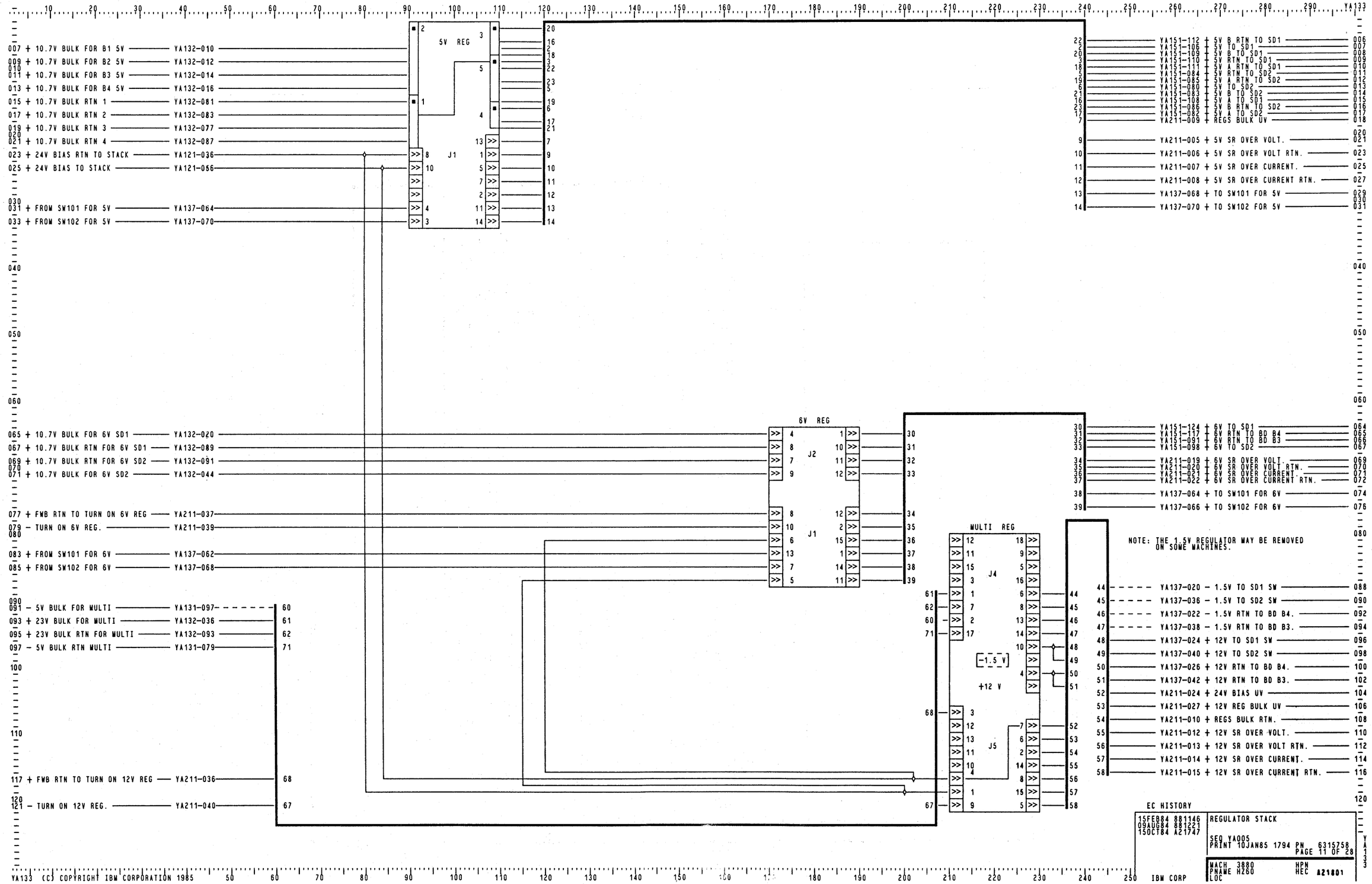
IBM CORP

YA131



EC HISTORY

15FEB84 881146 09AUG84 881221 15OCT84 A21747	BULK DC SUPPLY V.MEM SEQ YA005 PRINT 10JAN85 1147 PN 6315758 PAGE 10 OF 28
	MACH 3880 HPN PNAME HZ80 HEC A21801 LOC


5V REG
J1
6V REG
J2
J1
MULTI REG
J4
-1.5 V
+12 V
J5
007 + 10.7V BULK FOR B1 5V — YA132-010
009 + 10.7V BULK FOR B2 5V — YA132-012
011 + 10.7V BULK FOR B3 5V — YA132-014
013 + 10.7V BULK FOR B4 5V — YA132-016
015 + 10.7V BULK RTN 1 — YA132-081
017 + 10.7V BULK RTN 2 — YA132-083
019 + 10.7V BULK RTN 3 — YA132-077
021 + 10.7V BULK RTN 4 — YA132-087
023 + 24V BIAS RTN TO STACK — YA121-036
025 + 24V BIAS TO STACK — YA121-056
031 + FROM SW101 FOR 5V — YA137-064
033 + FROM SW102 FOR 5V — YA137-070
065 + 10.7V BULK FOR 6V SD1 — YA132-020
067 + 10.7V BULK RTN FOR 6V SD1 — YA132-089
069 + 10.7V BULK RTN FOR 6V SD2 — YA132-091
071 + 10.7V BULK FOR 6V SD2 — YA132-044
077 + FWB RTN TO TURN ON 6V REG — YA211-037
079 - TURN ON 6V REG. — YA211-039
083 + FROM SW101 FOR 6V — YA137-062
085 + FROM SW102 FOR 6V — YA137-068
091 - 5V BULK FOR MULTI — YA131-097
093 + 23V BULK FOR MULTI — YA132-036
095 + 23V BULK RTN FOR MULTI — YA132-093
097 - 5V BULK RTN MULTI — YA131-079
117 + FWB RTN TO TURN ON 12V REG — YA211-036
121 - TURN ON 12V REG. — YA211-040
YA151-112 + 5V B RTN TO SD1 — 006
YA151-106 + 5V TO SD1 — 007
YA151-109 + 5V B TO SD1 — 008
YA151-110 + 5V RTN TO SD1 — 009
YA151-111 + 5V A RTN TO SD1 — 010
YA151-084 + 5V RTN TO SD2 — 011
YA151-085 + 5V A RTN TO SD2 — 012
YA151-080 + 5V TO SD2 — 013
YA151-083 + 5V B TO SD2 — 014
YA151-108 + 5V A TO SD1 — 015
YA151-086 + 5V B RTN TO SD2 — 016
YA151-082 + 5V A TO SD2 — 017
YA211-009 + REGS BULK UV — 018
YA211-005 + 5V SR OVER VOLT. — 021
YA211-006 + 5V SR OVER VOLT RTN. — 023
YA211-007 + 5V SR OVER CURRENT. — 025
YA211-008 + 5V SR OVER CURRENT RTN. — 027
YA137-068 + TO SW101 FOR 5V — 029
YA137-070 + TO SW102 FOR 5V — 031
YA151-124 + 6V TO SD1 — 064
YA151-117 + 6V RTN TO BD B4 — 065
YA151-091 + 6V RTN TO BD B3 — 066
YA151-098 + 6V TO SD2 — 067
YA211-019 + 6V SR OVER VOLT. — 069
YA211-020 + 6V SR OVER VOLT RTN. — 070
YA211-021 + 6V SR OVER CURRENT. — 071
YA211-022 + 6V SR OVER CURRENT RTN. — 072
YA137-064 + TO SW101 FOR 6V — 074
YA137-066 + TO SW102 FOR 6V — 076
NOTE: THE 1.5V REGULATOR MAY BE REMOVED ON SOME MACHINES.
YA137-020 - 1.5V TO SD1 SW — 088
YA137-036 - 1.5V TO SD2 SW — 090
YA137-022 - 1.5V RTN TO BD B4. — 092
YA137-038 - 1.5V RTN TO BD B3. — 094
YA137-024 + 12V TO SD1 SW — 096
YA137-040 + 12V TO SD2 SW — 098
YA137-026 + 12V RTN TO BD B4. — 100
YA137-042 + 12V RTN TO BD B3. — 102
YA211-024 + 24V BIAS UV — 104
YA211-027 + 12V REG BULK UV — 106
YA211-010 + REGS BULK RTN. — 108
YA211-012 + 12V SR OVER VOLT. — 110
YA211-013 + 12V SR OVER VOLT RTN. — 112
YA211-014 + 12V SR OVER CURRENT. — 114
YA211-015 + 12V SR OVER CURRENT RTN. — 116
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
REGULATOR STACK
SEQ YA005
PRINT 10JAN85 1794 PN 6315758
PAGE 11 OF 28
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PNAME HZ60
LOC
HPN
HEC A21801
IBM CORP
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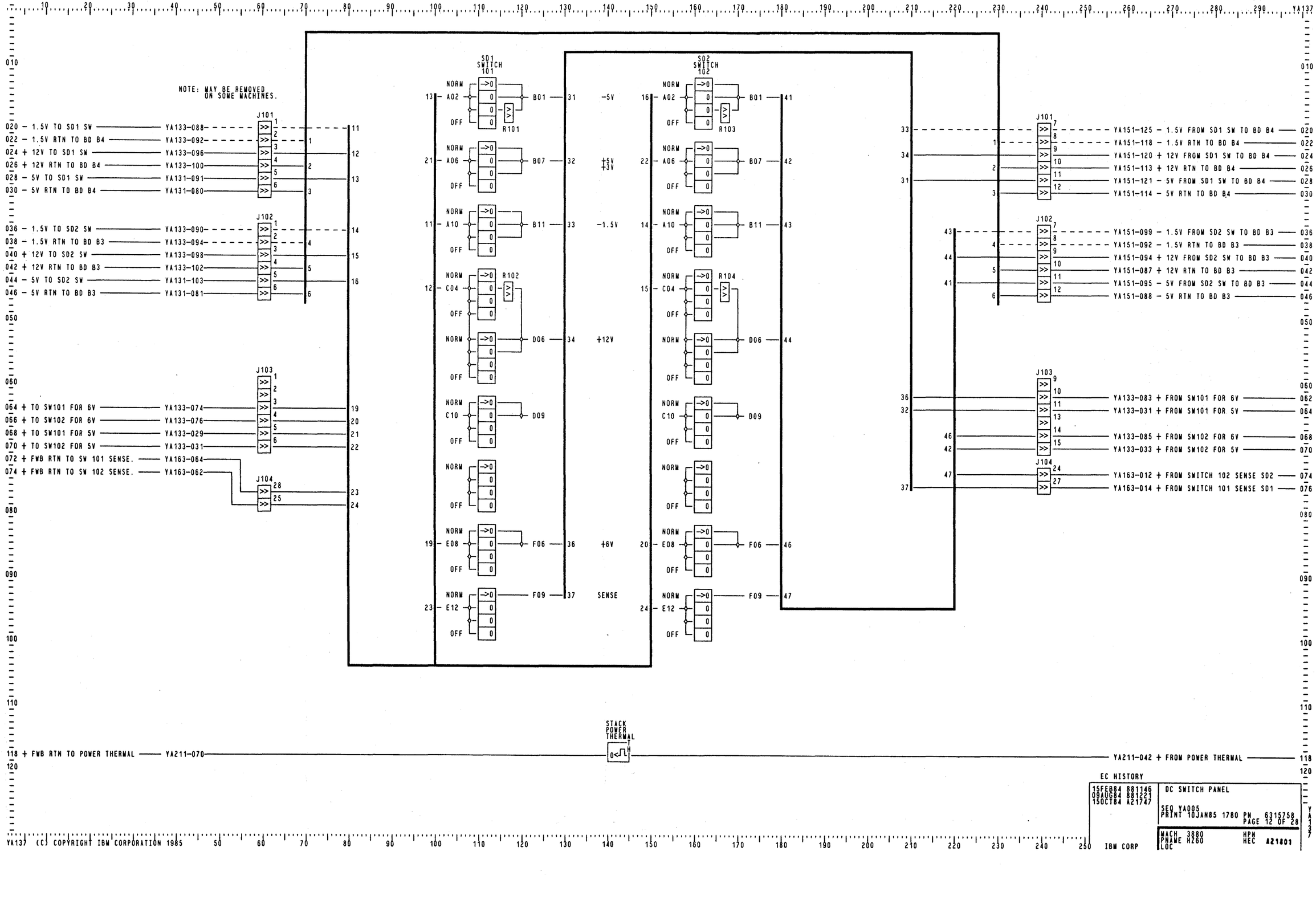
YA133


NOTE: MAY BE REMOVED ON SOME MACHINES.
020 - 1.5V TO SD1 SW — YA133-088
022 - 1.5V RTN TO BD B4 — YA133-092
024 + 12V TO SD1 SW — YA133-096
026 + 12V RTN TO BD B4 — YA133-100
028 - 5V TO SD1 SW — YA131-091
030 - 5V RTN TO BD B4 — YA131-080
036 - 1.5V TO SD2 SW — YA133-090
038 - 1.5V RTN TO BD B3 — YA133-094
040 + 12V TO SD2 SW — YA133-098
042 + 12V RTN TO BD B3 — YA133-102
044 - 5V TO SD2 SW — YA131-103
046 - 5V RTN TO BD B3 — YA131-081
062 + TO SW101 FOR 6V — YA133-074
064 + TO SW102 FOR 6V — YA133-076
066 + TO SW101 FOR 5V — YA133-029
068 + TO SW102 FOR 5V — YA133-031
070 + FWB RTN TO SW 101 SENSE. — YA163-064
074 + FWB RTN TO SW 102 SENSE. — YA163-062
J101
J102
J103
J104
SD1 SWITCH 101
SD2 SWITCH 102
NORM
OFF
A02
A06
A10
C04
C10
E08
E12
B01
B07
B11
D06
D09
F06
F09
R101
R102
R103
R104
-5V
+5V
+3V
-1.5V
+12V
+6V
SENSE
YA151-125 - 1.5V FROM SD1 SW TO BD B4 — 020
YA151-118 - 1.5V RTN TO BD B4 — 022
YA151-120 + 12V FROM SD1 SW TO BD B4 — 024
YA151-113 + 12V RTN TO BD B4 — 026
YA151-121 - 5V FROM SD1 SW TO BD B4 — 028
YA151-114 - 5V RTN TO BD B4 — 030
YA151-099 - 1.5V FROM SD2 SW TO BD B3 — 036
YA151-092 - 1.5V RTN TO BD B3 — 038
YA151-094 + 12V FROM SD2 SW TO BD B3 — 040
YA151-087 + 12V RTN TO BD B3 — 042
YA151-095 - 5V FROM SD2 SW TO BD B3 — 044
YA151-088 - 5V RTN TO BD B3 — 046
YA133-083 + FROM SW101 FOR 6V — 062
YA133-031 + FROM SW101 FOR 5V — 064
YA133-085 + FROM SW102 FOR 6V — 068
YA133-033 + FROM SW102 FOR 5V — 070
YA163-012 + FROM SWITCH 102 SENSE SD2 — 074
YA163-014 + FROM SWITCH 101 SENSE SD1 — 076
STACK POWER THERMAL
118 + FWB RTN TO POWER THERMAL — YA211-070
YA211-042 + FROM POWER THERMAL — 118
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
DC SWITCH PANEL
SEQ YA005
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PAGE 12 OF 28
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LOC
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HEC A21801
IBM CORP
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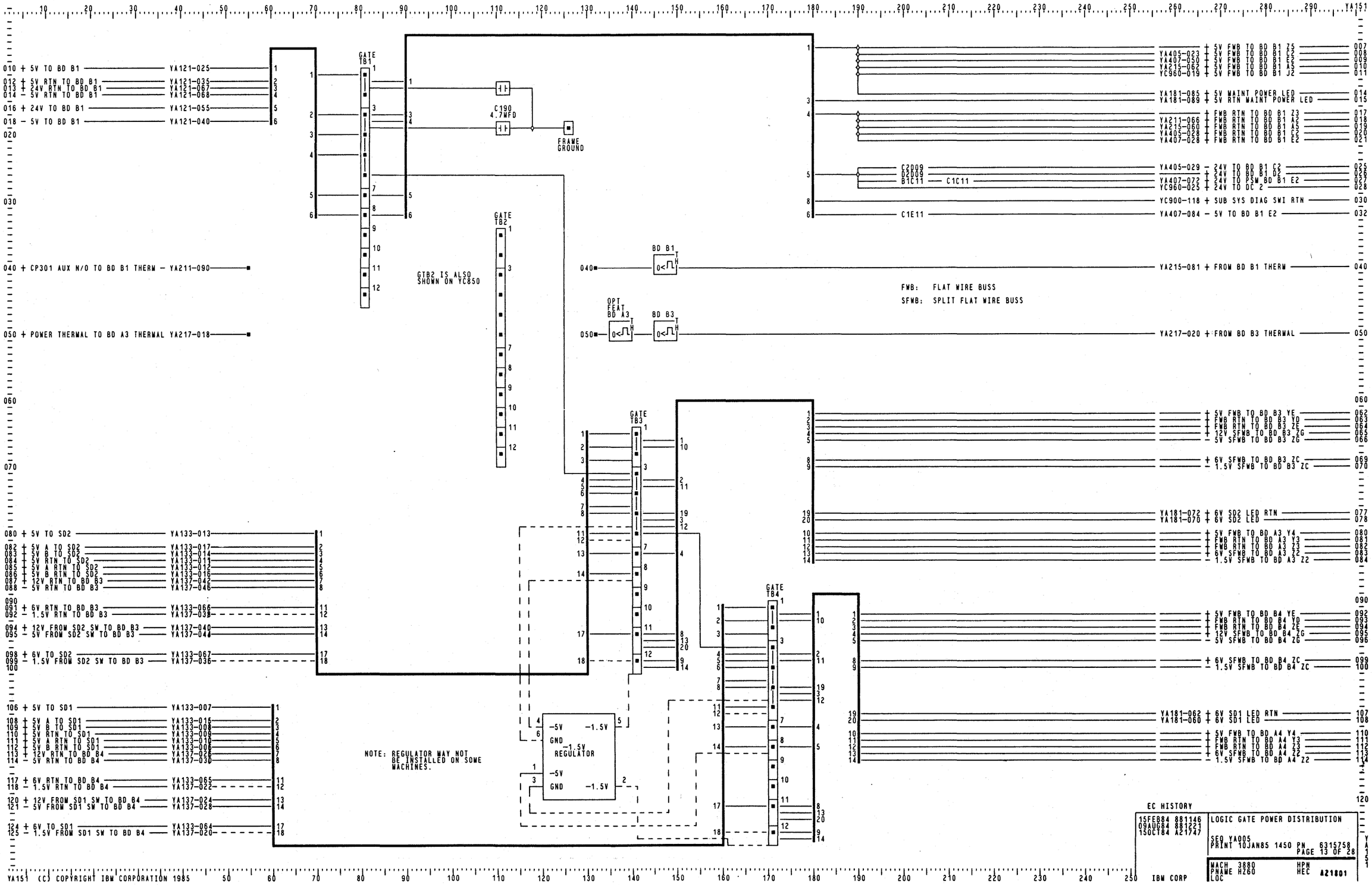
GATE TB1
GATE TB2
GATE TB3
GATE TB4
C190 4.7MFD
FRAME GROUND
GTB2 IS ALSO SHOWN ON YC850
BD B1
BD B3
OPT FEAT BD A3
-5V -1.5V GND -1.5V REGULATOR
NOTE: REGULATOR MAY NOT BE INSTALLED ON SOME MACHINES.
FWB: FLAT WIRE BUSS
SFWB: SPLIT FLAT WIRE BUSS
010 + 5V TO BD B1 — YA121-025
012 + 5V RTN TO BD B1 — YA121-035
013 + 24V RTN TO BD B1 — YA121-067
014 - 5V RTN TO BD B1 — YA121-068
016 + 24V TO BD B1 — YA121-055
018 - 5V TO BD B1 — YA121-040
040 + CP301 AUX N/O TO BD B1 THERM - YA211-090
050 + POWER THERMAL TO BD A3 THERMAL YA217-018
080 + 5V TO SD2 — YA133-013
082 + 5V A TO SD2 — YA133-017
083 + 5V B TO SD2 — YA133-014
084 + 5V RTN TO SD2 — YA133-011
085 + 5V A RTN TO SD2 — YA133-012
086 + 5V B RTN TO SD2 — YA133-016
087 + 12V RTN TO BD B3 — YA137-042
088 - 5V RTN TO BD B3 — YA137-046
091 + 6V RTN TO BD B3 — YA133-066
092 - 1.5V RTN TO BD B3 — YA137-038
094 + 12V FROM SD2 SW TO BD B3 — YA137-040
095 - 5V FROM SD2 SW TO BD B3 — YA137-044
098 + 6V TO SD2 — YA133-067
099 - 1.5V FROM SD2 SW TO BD B3 — YA137-036
106 + 5V TO SD1 — YA133-007
108 + 5V A TO SD1 — YA133-015
109 + 5V B TO SD1 — YA133-008
110 + 5V RTN TO SD1 — YA133-009
111 + 5V A RTN TO SD1 — YA133-010
112 + 5V B RTN TO SD1 — YA133-006
113 + 12V RTN TO BD B4 — YA137-025
114 - 5V RTN TO BD B4 — YA137-030
117 + 6V RTN TO BD B4 — YA133-065
118 - 1.5V RTN TO BD B4 — YA137-022
120 + 12V FROM SD1 SW TO BD B4 — YA137-024
121 - 5V FROM SD1 SW TO BD B4 — YA137-028
124 + 6V TO SD1 — YA133-064
125 - 1.5V FROM SD1 SW TO BD B4 — YA137-020
YA405-023 + 5V FWB TO BD B1 Z5 — 007
YA407-050 + 5V FWB TO BD B1 E2 — 009
YA215-062 + 5V FWB TO BD B1 A5 — 010
YC960-019 + 5V FWB TO BD B1 J2 — 011
YA181-085 + 5V MAINT POWER LED — 014
YA181-089 + 5V RTN MAINT POWER LED — 015
YA211-066 + FWB RTN TO BD B1 A2 — 018
YA215-060 + FWB RTN TO BD B1 A5 — 019
YA405-028 + FWB RTN TO BD B1 C2 — 020
YA407-028 + FWB RTN TO BD B1 E2 — 021
C2D09 — YA405-029 - 24V TO BD B1 C2 — 025
D2D09 — + 24V TO BD B1 D2 — 026
B1C11 — C1C11 — YA407-072 + 24V TO PSM BD B1 E2 — 027
YC960-025 + 24V TO DC 2 — 028
YC900-118 + SUB SYS DIAG SWI RTN — 030
C1E11 — YA407-084 - 5V TO BD B1 E2 — 032
040 — YA215-081 + FROM BD B1 THERM — 040
050 — YA217-020 + FROM BD B3 THERMAL — 050
+ 5V FWB TO BD B3 YE — 062
+ FWB RTN TO BD B3 YD — 063
+ FWB RTN TO BD B3 ZE — 064
+ 12V SFWB TO BD B3 ZG — 065
- 5V SFWB TO BD B3 ZG — 066
+ 6V SFWB TO BD B3 ZC — 069
- 1.5V SFWB TO BD B3 ZC — 070
YA181-072 + 6V SD2 LED RTN — 077
YA181-070 + 6V SD2 LED — 078
+ 5V FWB TO BD A3 Y4 — 080
+ FWB RTN TO BD A3 Y3 — 081
+ FWB RTN TO BD A3 Z3 — 082
+ 6V SFWB TO BD A3 Z2 — 083
- 1.5V SFWB TO BD A3 Z2 — 084
+ 5V FWB TO BD B4 YE — 092
+ FWB RTN TO BD B4 YD — 093
+ FWB RTN TO BD B4 ZE — 094
+ 12V SFWB TO BD B4 ZG — 095
- 5V SFWB TO BD B4 ZG — 096
+ 6V SFWB TO BD B4 ZC — 099
- 1.5V SFWB TO BD B4 ZC — 100
YA181-062 + 6V SD1 LED RTN — 107
YA181-060 + 6V SD1 LED — 108
+ 5V FWB TO BD A4 Y4 — 110
+ FWB RTN TO BD A4 Y3 — 111
+ FWB RTN TO BD A4 Z3 — 112
+ 6V SFWB TO BD A4 Z2 — 113
- 1.5V SFWB TO BD A4 Z2 — 114
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
LOGIC GATE POWER DISTRIBUTION
SEQ YA005
PRINT 10JAN85 1450 PN 6315758
PAGE 13 OF 28
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PNAME H260 HEC A21801
LOC
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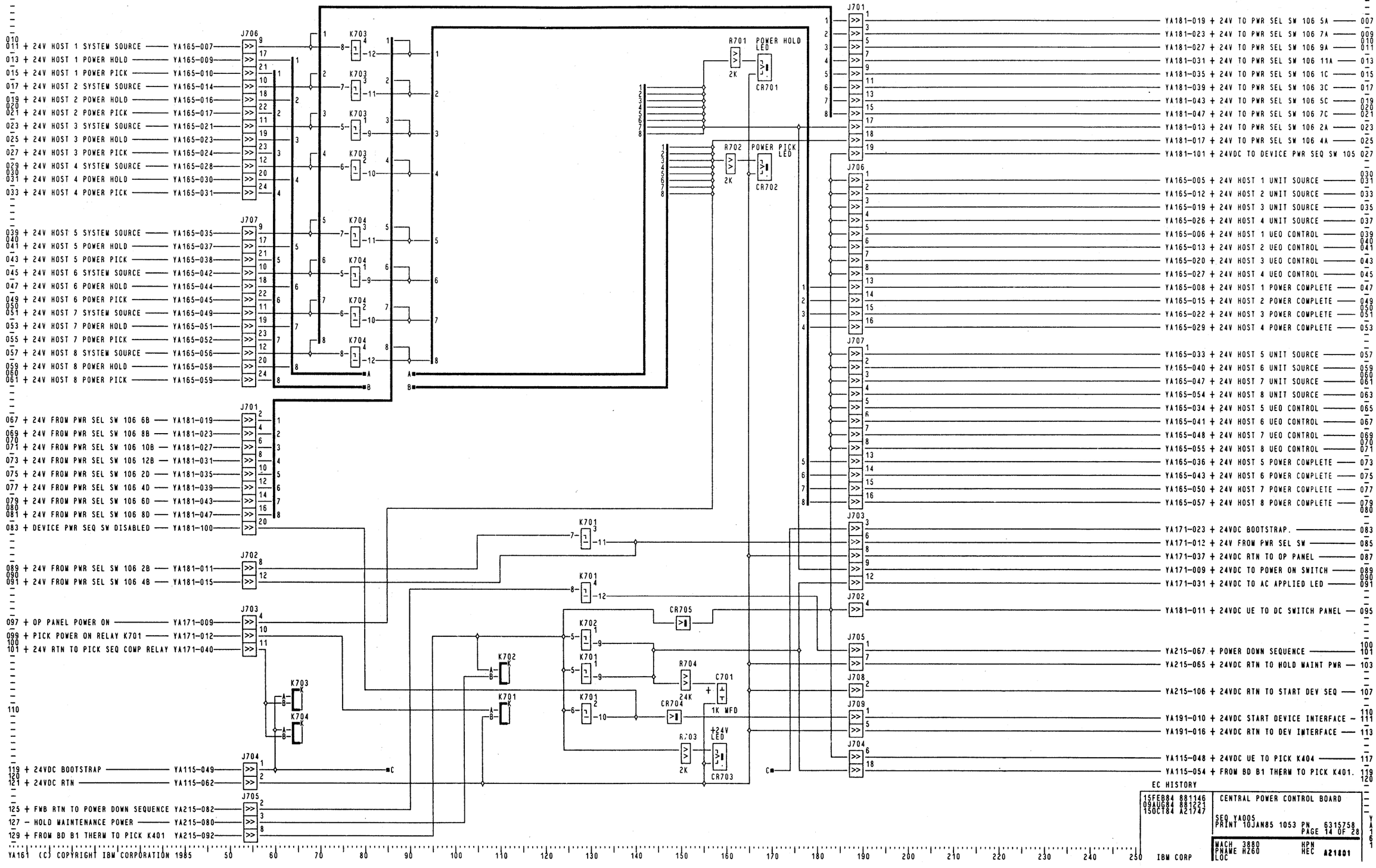
IBM CORP
YA151


J706
011 + 24V HOST 1 SYSTEM SOURCE — YA165-007
013 + 24V HOST 1 POWER HOLD — YA165-009
015 + 24V HOST 1 POWER PICK — YA165-010
017 + 24V HOST 2 SYSTEM SOURCE — YA165-014
019 + 24V HOST 2 POWER HOLD — YA165-016
021 + 24V HOST 2 POWER PICK — YA165-017
023 + 24V HOST 3 SYSTEM SOURCE — YA165-021
025 + 24V HOST 3 POWER HOLD — YA165-023
027 + 24V HOST 3 POWER PICK — YA165-024
029 + 24V HOST 4 SYSTEM SOURCE — YA165-028
031 + 24V HOST 4 POWER HOLD — YA165-030
033 + 24V HOST 4 POWER PICK — YA165-031
J707
039 + 24V HOST 5 SYSTEM SOURCE — YA165-035
041 + 24V HOST 5 POWER HOLD — YA165-037
043 + 24V HOST 5 POWER PICK — YA165-038
045 + 24V HOST 6 SYSTEM SOURCE — YA165-042
047 + 24V HOST 6 POWER HOLD — YA165-044
049 + 24V HOST 6 POWER PICK — YA165-045
051 + 24V HOST 7 SYSTEM SOURCE — YA165-049
053 + 24V HOST 7 POWER HOLD — YA165-051
055 + 24V HOST 7 POWER PICK — YA165-052
057 + 24V HOST 8 SYSTEM SOURCE — YA165-056
059 + 24V HOST 8 POWER HOLD — YA165-058
061 + 24V HOST 8 POWER PICK — YA165-059
J701
067 + 24V FROM PWR SEL SW 106 6B — YA181-019
069 + 24V FROM PWR SEL SW 106 8B — YA181-023
071 + 24V FROM PWR SEL SW 106 10B — YA181-027
073 + 24V FROM PWR SEL SW 106 12B — YA181-031
075 + 24V FROM PWR SEL SW 106 2D — YA181-035
077 + 24V FROM PWR SEL SW 106 4D — YA181-039
079 + 24V FROM PWR SEL SW 106 6D — YA181-043
081 + 24V FROM PWR SEL SW 106 8D — YA181-047
083 + DEVICE PWR SEQ SW DISABLED — YA181-100
J702
089 + 24V FROM PWR SEL SW 106 2B — YA181-011
091 + 24V FROM PWR SEL SW 106 4B — YA181-015
J703
097 + OP PANEL POWER ON — YA171-009
099 + PICK POWER ON RELAY K701 — YA171-012
101 + 24V RTN TO PICK SEQ COMP RELAY — YA171-040
J704
119 + 24VDC BOOTSTRAP — YA115-049
121 + 24VDC RTN — YA115-062
J705
125 + FWB RTN TO POWER DOWN SEQUENCE — YA215-082
127 - HOLD MAINTENANCE POWER — YA215-080
129 + FROM BD B1 THERM TO PICK K401 — YA215-092
K703
K704
K702
K701
K705
K706
K707
K708
R701 POWER HOLD LED
2K
CR701
R702 POWER PICK LED
2K
CR702
R704
24K
C701
1K MFD
CR704
R703
2K
+24V LED
CR703
CR705
J701
YA181-019 + 24V TO PWR SEL SW 106 5A — 007
YA181-023 + 24V TO PWR SEL SW 106 7A — 009
YA181-027 + 24V TO PWR SEL SW 106 9A — 011
YA181-031 + 24V TO PWR SEL SW 106 11A — 013
YA181-035 + 24V TO PWR SEL SW 106 1C — 015
YA181-039 + 24V TO PWR SEL SW 106 3C — 017
YA181-043 + 24V TO PWR SEL SW 106 5C — 019
YA181-047 + 24V TO PWR SEL SW 106 7C — 021
YA181-013 + 24V TO PWR SEL SW 106 2A — 023
YA181-017 + 24V TO PWR SEL SW 106 4A — 025
YA181-101 + 24VDC TO DEVICE PWR SEQ SW 105 — 027
J706
YA165-005 + 24V HOST 1 UNIT SOURCE — 031
YA165-012 + 24V HOST 2 UNIT SOURCE — 033
YA165-019 + 24V HOST 3 UNIT SOURCE — 035
YA165-026 + 24V HOST 4 UNIT SOURCE — 037
YA165-006 + 24V HOST 1 UEO CONTROL — 039
YA165-013 + 24V HOST 2 UEO CONTROL — 041
YA165-020 + 24V HOST 3 UEO CONTROL — 043
YA165-027 + 24V HOST 4 UEO CONTROL — 045
YA165-008 + 24V HOST 1 POWER COMPLETE — 047
YA165-015 + 24V HOST 2 POWER COMPLETE — 049
YA165-022 + 24V HOST 3 POWER COMPLETE — 051
YA165-029 + 24V HOST 4 POWER COMPLETE — 053
J707
YA165-033 + 24V HOST 5 UNIT SOURCE — 057
YA165-040 + 24V HOST 6 UNIT SOURCE — 059
YA165-047 + 24V HOST 7 UNIT SOURCE — 061
YA165-054 + 24V HOST 8 UNIT SOURCE — 063
YA165-034 + 24V HOST 5 UEO CONTROL — 065
YA165-041 + 24V HOST 6 UEO CONTROL — 067
YA165-048 + 24V HOST 7 UEO CONTROL — 069
YA165-055 + 24V HOST 8 UEO CONTROL — 071
YA165-036 + 24V HOST 5 POWER COMPLETE — 073
YA165-043 + 24V HOST 6 POWER COMPLETE — 075
YA165-050 + 24V HOST 7 POWER COMPLETE — 077
YA165-057 + 24V HOST 8 POWER COMPLETE — 079
J703
YA171-023 + 24VDC BOOTSTRAP. — 083
YA171-012 + 24V FROM PWR SEL SW — 085
YA171-037 + 24VDC RTN TO OP PANEL — 087
YA171-009 + 24VDC TO POWER ON SWITCH — 089
YA171-031 + 24VDC TO AC APPLIED LED — 091
J702
YA181-011 + 24VDC UE TO DC SWITCH PANEL — 095
J705
YA215-067 + POWER DOWN SEQUENCE — 101
YA215-065 + 24VDC RTN TO HOLD MAINT PWR — 103
J708
YA215-106 + 24VDC RTN TO START DEV SEQ — 107
J709
YA191-010 + 24VDC START DEVICE INTERFACE — 111
YA191-016 + 24VDC RTN TO DEV INTERFACE — 113
J704
YA115-048 + 24VDC UE TO PICK K404 — 117
YA115-054 + FROM BD B1 THERM TO PICK K401. — 119
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
CENTRAL POWER CONTROL BOARD
SEQ YA005
PRINT 10JAN85 1053 PN 6315758
PAGE 14 OF 28
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LOC
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HEC A21801
IBM CORP
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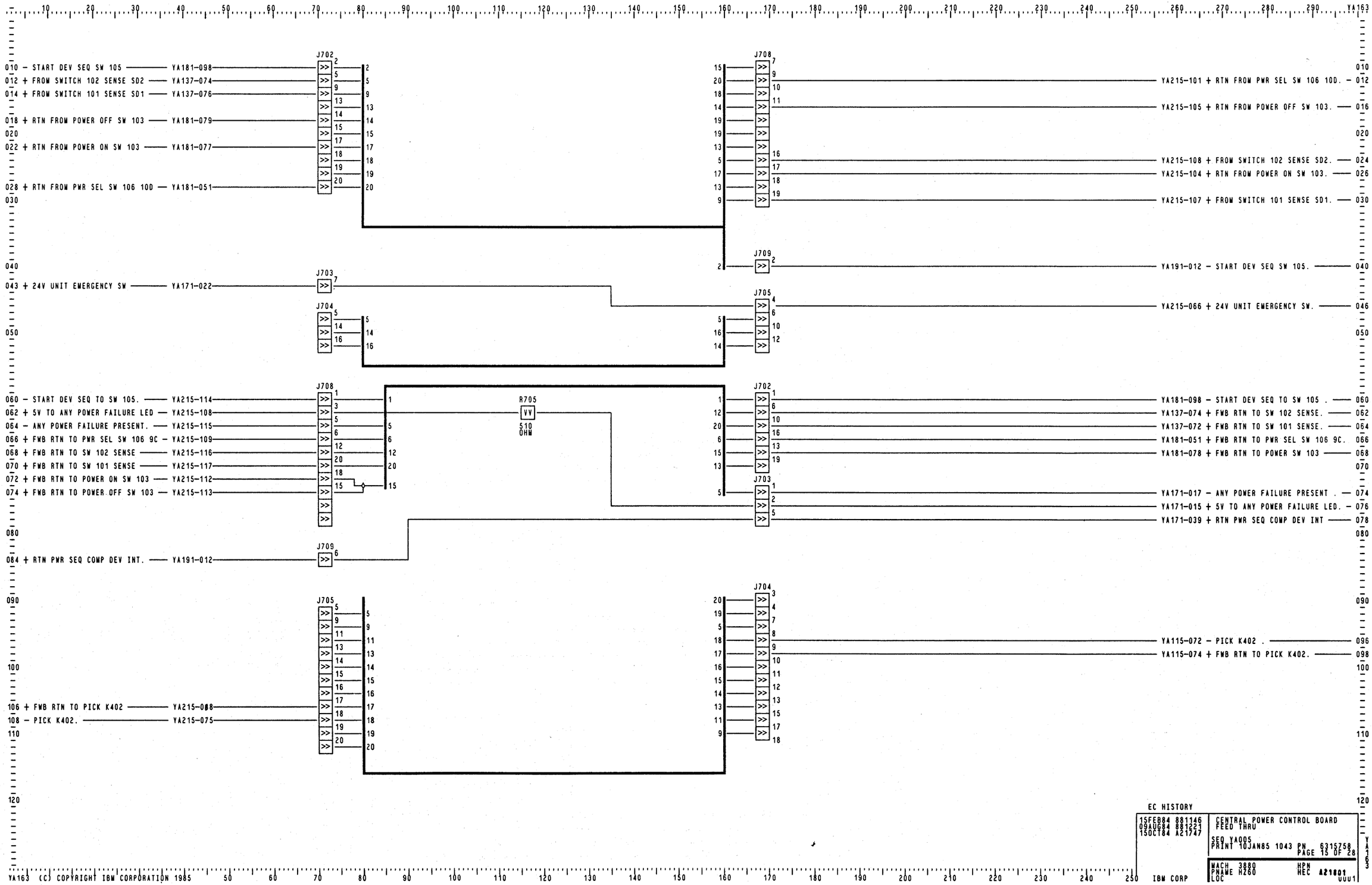
010 - START DEV SEQ SW 105 — YA181-098
012 + FROM SWITCH 102 SENSE SD2 — YA137-074
014 + FROM SWITCH 101 SENSE SD1 — YA137-076
018 + RTN FROM POWER OFF SW 103 — YA181-079
022 + RTN FROM POWER ON SW 103 — YA181-077
028 + RTN FROM PWR SEL SW 106 10D — YA181-051
043 + 24V UNIT EMERGENCY SW — YA171-022
060 - START DEV SEQ TO SW 105. — YA215-114
062 + 5V TO ANY POWER FAILURE LED — YA215-108
064 - ANY POWER FAILURE PRESENT. — YA215-115
066 + FWB RTN TO PWR SEL SW 106 9C — YA215-109
068 + FWB RTN TO SW 102 SENSE — YA215-116
070 + FWB RTN TO SW 101 SENSE — YA215-117
072 + FWB RTN TO POWER ON SW 103 — YA215-112
074 + FWB RTN TO POWER OFF SW 103 — YA215-113
084 + RTN PWR SEQ COMP DEV INT. — YA191-012
106 + FWB RTN TO PICK K402 — YA215-088
108 - PICK K402. — YA215-075
J702
J703
J704
J705
J708
J709
R705
510 OHM
YA215-101 + RTN FROM PWR SEL SW 106 10D. — 012
YA215-105 + RTN FROM POWER OFF SW 103. — 016
YA215-108 + FROM SWITCH 102 SENSE SD2. — 024
YA215-104 + RTN FROM POWER ON SW 103. — 026
YA215-107 + FROM SWITCH 101 SENSE SD1. — 030
YA191-012 - START DEV SEQ SW 105. — 040
YA215-066 + 24V UNIT EMERGENCY SW. — 046
YA181-098 - START DEV SEQ TO SW 105 . — 060
YA137-074 + FWB RTN TO SW 102 SENSE. — 062
YA137-072 + FWB RTN TO SW 101 SENSE. — 064
YA181-051 + FWB RTN TO PWR SEL SW 106 9C. — 066
YA181-078 + FWB RTN TO POWER SW 103 — 068
YA171-017 - ANY POWER FAILURE PRESENT . — 074
YA171-015 + 5V TO ANY POWER FAILURE LED. — 076
YA171-039 + RTN PWR SEQ COMP DEV INT — 078
YA115-072 - PICK K402 . — 096
YA115-074 + FWB RTN TO PICK K402. — 098
EC HISTORY
15FEB84 881146
09AUG84 881221
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CENTRAL POWER CONTROL BOARD
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PAGE 15 OF 28
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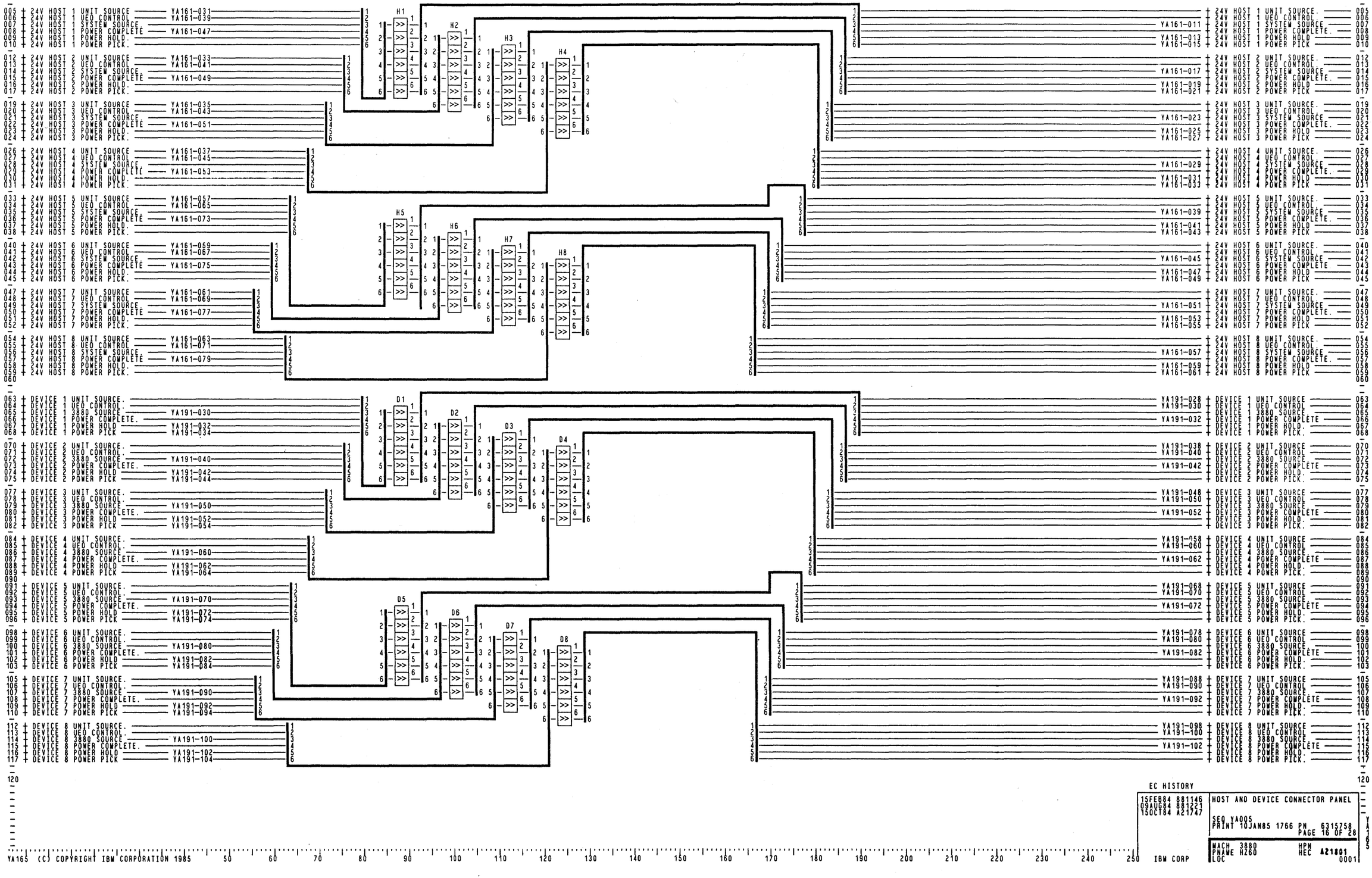
LOC UUU1
IBM CORP
YA163 (C) COPYRIGHT IBM CORPORATION 1985



EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

HOST AND DEVICE CONNECTOR PANEL

SEQ YA005
PRINT 10JAN85 1766 PN 6315758
PAGE 16 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC 0001

IBM CORP

YA165

009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 — ANY POWER FAILURE PRESENT . — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040

SUBSYSTEM POWER SW502 (ON / OFF)

POWER CHECK LED L501

EC 501H

EC 501G, 2K R503, EC 501C

POWER ON LED L503

EC 501A

2K R504

EC 501D

EC 501E

POWER SEQUENCE COMPLETE L502

UNIT EMERGENCY SW501

SW501 IN THE OTHER 3880

FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.

ENABLE / DISABLE

YA161-097 + OP PANEL POWER ON — 009
YA161-099 + PICK POWER ON RELAY K701 — 012
YC200-062 + 24V TO KA01, KA02, AND KA03 — 020
YA163-043 + 24VDC UNIT EMERGENCY SW — 022
YA161-101 + 24V RTN TO PICK SEQ COMP RELAY — 040

050
057 + 5V SD1 — B4ZG -U6C02
059 — STORAGE DIRECTOR CHECK SD1 — HV200-026 — -V6A02
061 — STORAGE DIRECTOR WAIT SD1 — HV200-027 — -U6C04
063 — STORAGE DIRECTOR STATUS SD1 — HV200-029 — -V6A04
065 — STORAGE DIRECTOR PROCESS SD1 — HV200-028 — -U6E04

STORAGE DIRECTOR 1

J505 6 / 7 / 8 / 10 / 9

CHECK / WAIT / STATUS PENDING / PROCESS

CHANNEL A / CHANNEL B / CHANNEL C / CHANNEL D (-EN -DIS)

CHAN A DISABLED / CHAN B DISABLED / CHAN C DISABLED / CHAN D DISABLED

J502 1 / 6 / 7 / 12 / 11 / 8 / 5 / 2

A4Y6

T1A13 — DR200-009 — ENABLE CIF A (OP-PNL) SD1 — 051
T1D13 — DQ200-009 — ENABLE CIF B (OP-PNL) SD1 — 053
U1D13 — DE200-009 — ENABLE CIF C (OP-PNL) SD1 — 055
V1B13 — DF200-009 — ENABLE CIF D (OP-PNL) SD1 — 057
V1B11 — DF200-008 — DISABLE CIF D (OP-PNL) SD1 — 059
U1D11 — DE200-008 — DISABLE CIF C (OP-PNL) SD1 — 061
T1D11 — DQ200-008 — DISABLE CIF B (OP-PNL) SD1 — 063
T1A11 — DR200-008 — DISABLE CIF A (OP-PNL) SD1 — 065

070 — GND SD1 CHAN A — A4Y6 -T1B13 — J502 3
072 — GND SD1 CHAN B — -T1C11 — 4
074 — GND SD1 CHAN C — -U1E13 — 9
076 — GND SD1 CHAN D — -V1A11 — 10
078 + 5V SD1 CHAN — -T1B11 — J501 1
080 — CIF A DISABLED TO IND SD1 — DR200-011 — -T1E11 — 2
082 — CIF B DISABLED TO IND SD1 — DQ200-011 — -U1A11 — 3
084 — CIF C DISABLED TO IND SD1 — DE200-011 — -U1B13 — 4
086 — CIF D DISABLED TO IND SD1 — DF200-011 — -U1C13 — 5

090
098 + 5V SD2 — B3ZG -U6C02
100 — STORAGE DIRECTOR CHECK SD2 — GV200-026 — -V6A02
102 — STORAGE DIRECTOR WAIT SD2 — GV200-027 — -U6C04
104 — STORAGE DIRECTOR STATUS SD2 — GV200-029 — -V6A04
106 — STORAGE DIRECTOR PROCESS SD2 — GV200-028 — -U6E04

STORAGE DIRECTOR 2

J505 1 / 2 / 3 / 5 / 4

CHECK / WAIT / STATUS PENDING / PROCESS

CHANNEL A / CHANNEL B / CHANNEL C / CHANNEL D (-EN -DIS)

CHAN A DISABLED / CHAN B DISABLED / CHAN C DISABLED / CHAN D DISABLED

J504 1 / 6 / 7 / 12 / 11 / 8 / 5 / 2

A3Y6

T1A13 — DR200-009 — ENABLE CIF A (OP-PNL) SD2 — 092
T1D13 — DQ200-009 — ENABLE CIF B (OP-PNL) SD2 — 094
U1D13 — DE200-009 — ENABLE CIF C (OP-PNL) SD2 — 096
V1B13 — DF200-009 — ENABLE CIF D (OP-PNL) SD2 — 098
V1B11 — DF200-008 — DISABLE CIF D (OP-PNL) SD2 — 100
U1D11 — DE200-008 — DISABLE CIF C (OP-PNL) SD2 — 102
T1D11 — DQ200-008 — DISABLE CIF B (OP-PNL) SD2 — 104
T1A11 — DR200-008 — DISABLE CIF A (OP-PNL) SD2 — 106

110
111 — GND SD2 CHAN A — A3Y6 -T1B13 — J504 3
113 — GND SD2 CHAN B — -T1C11 — 4
115 — GND SD2 CHAN C — -U1E13 — 9
117 — GND SD2 CHAN D — -V1A11 — 10
119 + 5V SD2 CHAN — -T1B11 — J503 1
121 — CIF A DISABLED TO IND SD2 — DR200-011 — -T1E11 — 2
123 — CIF B DISABLED TO IND SD2 — DQ200-011 — -U1A11 — 3
125 — CIF C DISABLED TO IND SD2 — DE200-011 — -U1B13 — 4
127 — CIF D DISABLED TO IND SD2 — DF200-011 — -U1C13 — 5

EC HISTORY

15FEB84 881146
09AUG84 881221
15OCT84 A21747

OPERATOR PANEL
AND 4 CHANNEL SWITCHES
MODELS WITH SUBSYSTEM STORAGE
SEQ YA005
PRINT 10JAN85 1108 PN 6315758
PAGE 17 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC 0002

YA171

IBM CORP

009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 — ANY POWER FAILURE PRESENT . — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040

SUBSYSTEM POWER SW502 (ON / OFF)

YA161-097 + OP PANEL POWER ON
YA161-099 + PICK POWER ON RELAY K701
YA161-101 + 24V RTN TO PICK SEQ COMP RELAY

POWER CHECK LED L501
POWER ON LED L503
EC 501A, EC 501G, 2K R503, EC 501C, EC 501H, 2K R504, EC 501D, EC 501E
POWER SEQUENCE COMPLETE L502

UNIT EMERGENCY SW501

FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.

YC200-062 + 24V TO KA01, KA02, AND KA03
YA163-043 + 24VDC UNIT EMERGENCY SW
ENABLED
SW501 (8, 9) — SW501 (11, 12) — SW501 (5, 6)
SW501 IN THE OTHER 3880
ENABLE
DISABLE

050

STORAGE DIRECTOR 1

057 + 5V SD1 — B4ZG -U6C02 — J505 6
059 — STORAGE DIRECTOR CHECK SD1 — HV200-026 — -V6A02 — 7 — CHECK
060
061 — STORAGE DIRECTOR WAIT SD1 — HV200-027 — -U6C04 — 8 — WAIT
063 — STORAGE DIRECTOR STATUS SD1 — HV200-029 — -V6A04 — 10 — STATUS PENDING
065 — STORAGE DIRECTOR PROCESS SD1 — HV200-028 — -U6E04 — 9 — PROCESS

CHANNEL A (REMOTE, EN/DIS)
CHAN A DISABLED
CHANNEL B (REMOTE, EN/DIS)
CHAN B DISABLED
CHANNEL C (REMOTE, EN/DIS)
CHAN C DISABLED
CHANNEL D (REMOTE, EN/DIS)
CHAN D DISABLED

R1, R2 — J502 — A4Y6

DR200-009 — ENABLE CIF A (OP-PNL) SD1
DQ200-009 — ENABLE CIF B (OP-PNL) SD1
DE200-009 — ENABLE CIF C (OP-PNL) SD1
DF200-009 — ENABLE CIF D (OP-PNL) SD1
DF200-008 — DISABLE CIF D (OP-PNL) SD1
DE200-008 — DISABLE CIF C (OP-PNL) SD1
DQ200-008 — DISABLE CIF B (OP-PNL) SD1
DR200-008 — DISABLE CIF A (OP-PNL) SD1

070 — GND SD1 CHAN A — A4Y6 -T1B13 — J502 3 — R1 2
072 — GND SD1 CHAN B — -T1C11 — 4 — 5
074 — GND SD1 CHAN C — -U1E13 — 9 — R2 2
076 — GND SD1 CHAN D — -V1A11 — 10 — 5
078 + 5V SD1 CHAN — -T1B11 — J501 1
080 — CIF A DISABLED TO IND SD1 — DR200-011 — -T1E11 — 2
082 — CIF B DISABLED TO IND SD1 — DQ200-011 — -U1A11 — 3
084 — CIF C DISABLED TO IND SD1 — DE200-011 — -U1B13 — 4
086 — CIF D DISABLED TO IND SD1 — DF200-011 — -U1C13 — 5

1.2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESSION BETWEEN PINS S07, U06 AND GROUND ON BOARDS A3 AND A4 AS FOLLOWS.

‡ R2S07 — P2U08	‡ R2U06 — Q2U08
‡ Q2S07 — M2U08	‡ Q2U06 — N2U08
‡ E2S07 — B2U08	‡ E2U06 — C2U08
‡ F2S07 — D2U08	‡ F2U06 — E2U08

090

STORAGE DIRECTOR 2

098 + 5V SD2 — B3ZG -U6C02 — J505 1
100 — STORAGE DIRECTOR CHECK SD2 — GV200-026 — -V6A02 — 2 — CHECK
102 — STORAGE DIRECTOR WAIT SD2 — GV200-027 — -U6C04 — 3 — WAIT
104 — STORAGE DIRECTOR STATUS SD2 — GV200-029 — -V6A04 — 5 — STATUS PENDING
106 — STORAGE DIRECTOR PROCESS SD2 — GV200-028 — -U6E04 — 4 — PROCESS

CHANNEL A (REMOTE, EN/DIS)
CHAN A DISABLED
CHANNEL B (REMOTE, EN/DIS)
CHAN B DISABLED
CHANNEL C (REMOTE, EN/DIS)
CHAN C DISABLED
CHANNEL D (REMOTE, EN/DIS)
CHAN D DISABLED

R3, R4 — J504 — A3Y6

DR200-009 — ENABLE CIF A (OP-PNL) SD2
DQ200-009 — ENABLE CIF B (OP-PNL) SD2
DE200-009 — ENABLE CIF C (OP-PNL) SD2
DF200-009 — ENABLE CIF D (OP-PNL) SD2
DF200-008 — DISABLE CIF D (OP-PNL) SD2
DE200-008 — DISABLE CIF C (OP-PNL) SD2
DQ200-008 — DISABLE CIF B (OP-PNL) SD2
DR200-008 — DISABLE CIF A (OP-PNL) SD2

110
111 — GND SD2 CHAN A — A3Y6 -T1B13 — J504 3 — R3 2
113 — GND SD2 CHAN B — -T1C11 — 4 — 5
115 — GND SD2 CHAN C — -U1E13 — 9 — R4 2
117 — GND SD2 CHAN D — -V1A11 — 10 — 5
119 + 5V SD2 CHAN — -T1B11 — J503 1
120
121 — CIF A DISABLED TO IND SD2 — DR200-011 — -T1E11 — 2
123 — CIF B DISABLED TO IND SD2 — DQ200-011 — -U1A11 — 3
125 — CIF C DISABLED TO IND SD2 — DE200-011 — -U1B13 — 4
127 — CIF D DISABLED TO IND SD2 — DF200-011 — -U1C13 — 5

EC HISTORY

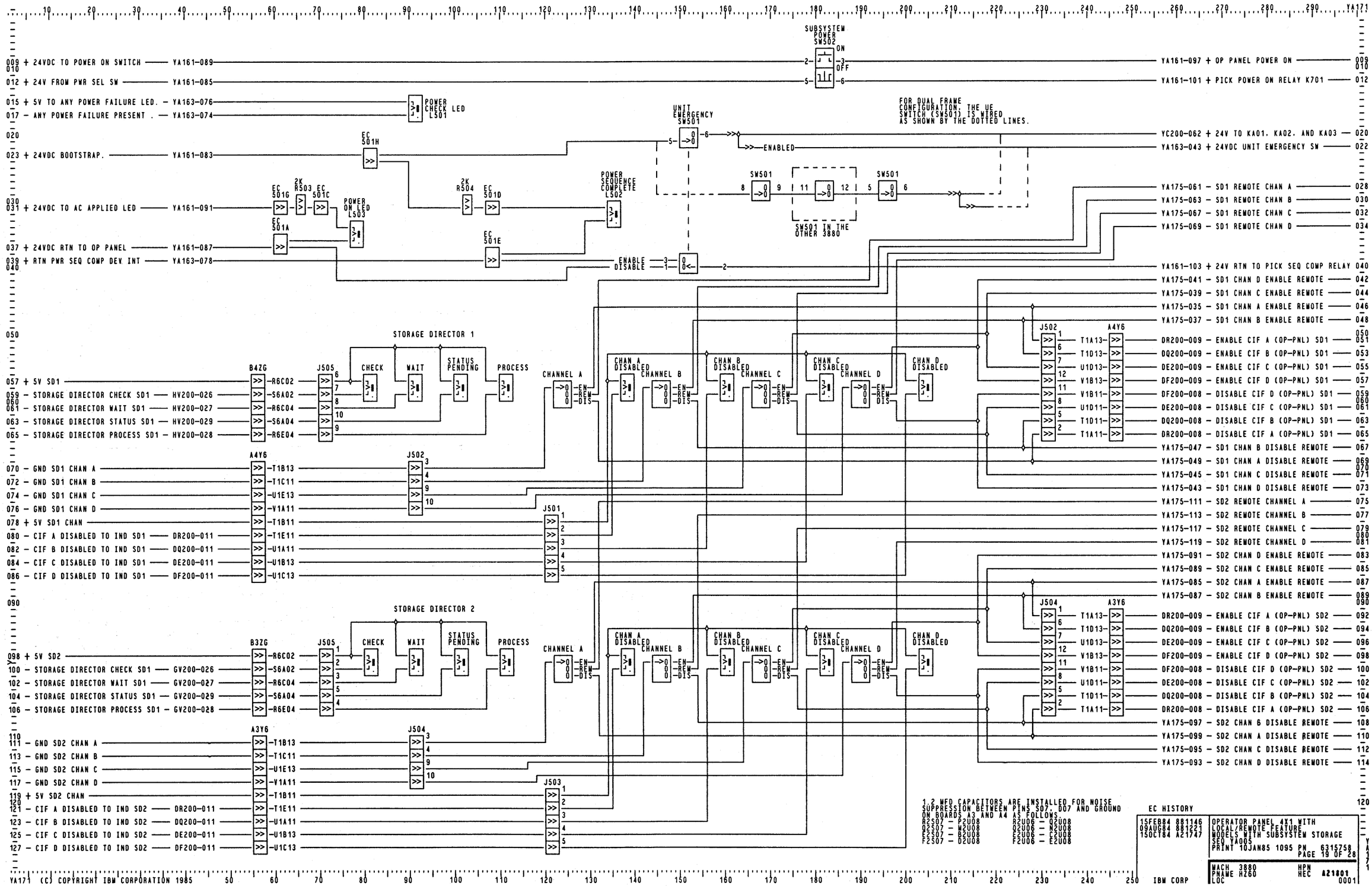
15FEB84	881146	
09AUG84	881221	
15OCT84	A21747	

OPERATOR PANEL
WITH REMOTE 4 CHANNEL SWITCHES
MODELS WITH SUBSYSTEM STORAGE
SEQ YA005
PRINT 10JAN85 1108 PN 6315758
PAGE 18 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC 0003

YA171

IBM CORP


009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 — ANY POWER FAILURE PRESENT . — YA163-074
POWER CHECK LED L501
020
023 + 24VDC BOOTSTRAP. — YA161-083
EC 501H
030
031 + 24VDC TO AC APPLIED LED — YA161-091
EC 501G
2K R503
EC 501C
POWER ON LED L503
EC 501A
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040
2K R504
EC 501D
EC 501E
POWER SEQUENCE COMPLETE L502
SUBSYSTEM POWER SW502
ON
OFF
YA161-097 + OP PANEL POWER ON — 009
010
YA161-101 + PICK POWER ON RELAY K701 — 012
UNIT EMERGENCY SW501
ENABLED
FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.
YC200-062 + 24V TO KA01, KA02, AND KA03 — 020
YA163-043 + 24VDC UNIT EMERGENCY SW — 022
SW501
SW501 IN THE OTHER 3880
YA175-061 — SD1 REMOTE CHAN A — 028
YA175-063 — SD1 REMOTE CHAN B — 030
YA175-067 — SD1 REMOTE CHAN C — 032
YA175-069 — SD1 REMOTE CHAN D — 034
ENABLE
DISABLE
YA161-103 + 24V RTN TO PICK SEQ COMP RELAY — 040
050
STORAGE DIRECTOR 1
057 + 5V SD1
059 — STORAGE DIRECTOR CHECK SD1 — HV200-026
060
061 — STORAGE DIRECTOR WAIT SD1 — HV200-027
063 — STORAGE DIRECTOR STATUS SD1 — HV200-029
065 — STORAGE DIRECTOR PROCESS SD1 — HV200-028
B4ZG
-R6C02
-S6A02
-R6C04
-S6A04
-R6E04
J505
CHECK
WAIT
STATUS PENDING
PROCESS
CHANNEL A
CHANNEL B
CHANNEL C
CHANNEL D
CHAN A DISABLED
CHAN B DISABLED
CHAN C DISABLED
CHAN D DISABLED
-EN
-REN
-DIS
J502
A4Y6
T1A13
T1D13
U1D13
V1B13
V1B11
U1D11
T1D11
T1A11
DR200-009 — ENABLE CIF A (OP-PNL) SD1 — 051
DQ200-009 — ENABLE CIF B (OP-PNL) SD1 — 053
DE200-009 — ENABLE CIF C (OP-PNL) SD1 — 055
DF200-009 — ENABLE CIF D (OP-PNL) SD1 — 057
DF200-008 — DISABLE CIF D (OP-PNL) SD1 — 059
DE200-008 — DISABLE CIF C (OP-PNL) SD1 — 061
DQ200-008 — DISABLE CIF B (OP-PNL) SD1 — 063
DR200-008 — DISABLE CIF A (OP-PNL) SD1 — 065
YA175-047 — SD1 CHAN B DISABLE REMOTE — 067
YA175-049 — SD1 CHAN A DISABLE REMOTE — 069
YA175-045 — SD1 CHAN C DISABLE REMOTE — 071
YA175-043 — SD1 CHAN D DISABLE REMOTE — 073
070 — GND SD1 CHAN A — A4Y6 -T1B13 — J502 3
072 — GND SD1 CHAN B — -T1C11 — 4
074 — GND SD1 CHAN C — -U1E13 — 9
076 — GND SD1 CHAN D — -V1A11 — 10
078 + 5V SD1 CHAN — -T1B11
080 — CIF A DISABLED TO IND SD1 — DR200-011 — -T1E11 — J501 1
082 — CIF B DISABLED TO IND SD1 — DQ200-011 — -U1A11 — 2
084 — CIF C DISABLED TO IND SD1 — DE200-011 — -U1B13 — 3
086 — CIF D DISABLED TO IND SD1 — DF200-011 — -U1C13 — 4
5
090
STORAGE DIRECTOR 2
098 + 5V SD2
100 — STORAGE DIRECTOR CHECK SD1 — GV200-026
102 — STORAGE DIRECTOR WAIT SD1 — GV200-027
104 — STORAGE DIRECTOR STATUS SD1 — GV200-029
106 — STORAGE DIRECTOR PROCESS SD1 — GV200-028
B3ZG
-R6C02
-S6A02
-R6C04
-S6A04
-R6E04
J505
CHECK
WAIT
STATUS PENDING
PROCESS
CHANNEL A
CHANNEL B
CHANNEL C
CHANNEL D
CHAN A DISABLED
CHAN B DISABLED
CHAN C DISABLED
CHAN D DISABLED
-EN
-REN
-DIS
J504
A3Y6
T1A13
T1D13
U1D13
V1B13
V1B11
U1D11
T1D11
T1A11
DR200-009 — ENABLE CIF A (OP-PNL) SD2 — 092
DQ200-009 — ENABLE CIF B (OP-PNL) SD2 — 094
DE200-009 — ENABLE CIF C (OP-PNL) SD2 — 096
DF200-009 — ENABLE CIF D (OP-PNL) SD2 — 098
DF200-008 — DISABLE CIF D (OP-PNL) SD2 — 100
DE200-008 — DISABLE CIF C (OP-PNL) SD2 — 102
DQ200-008 — DISABLE CIF B (OP-PNL) SD2 — 104
DR200-008 — DISABLE CIF A (OP-PNL) SD2 — 106
YA175-097 — SD2 CHAN B DISABLE REMOTE — 108
YA175-099 — SD2 CHAN A DISABLE REMOTE — 110
YA175-095 — SD2 CHAN C DISABLE REMOTE — 112
YA175-093 — SD2 CHAN D DISABLE REMOTE — 114
110
111 — GND SD2 CHAN A — A3Y6 -T1B13 — J504 3
113 — GND SD2 CHAN B — -T1C11 — 4
115 — GND SD2 CHAN C — -U1E13 — 9
117 — GND SD2 CHAN D — -V1A11 — 10
119 + 5V SD2 CHAN — -T1B11
121 — CIF A DISABLED TO IND SD2 — DR200-011 — -T1E11 — J503 1
123 — CIF B DISABLED TO IND SD2 — DQ200-011 — -U1A11 — 2
125 — CIF C DISABLED TO IND SD2 — DE200-011 — -U1B13 — 3
127 — CIF D DISABLED TO IND SD2 — DF200-011 — -U1C13 — 4
5
1.2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESSION BETWEEN PINS S07, D07 AND GROUND ON BOARDS A3 AND A4 AS FOLLOWS
D2S07 — P2U08 — P2U06 — O2U08
D2S07 — M2U08 — Q2U06 — N2U08
F2S07 — B2U08 — F2U06 — C2U08
F2S07 — D2U08 — F2U06 — E2U08
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
OPERATOR PANEL 4X1 WITH LOCAL/REMOTE FEATURE
MODELS WITH SUBSYSTEM STORAGE
SEQ YA005
PRINT 10JAN85 1095 PN 6315758
PAGE 19 OF 28
MACH 3880
PNAME HZ60
LOC 0001
HPN
HEC 421801
IBM CORP
YA171
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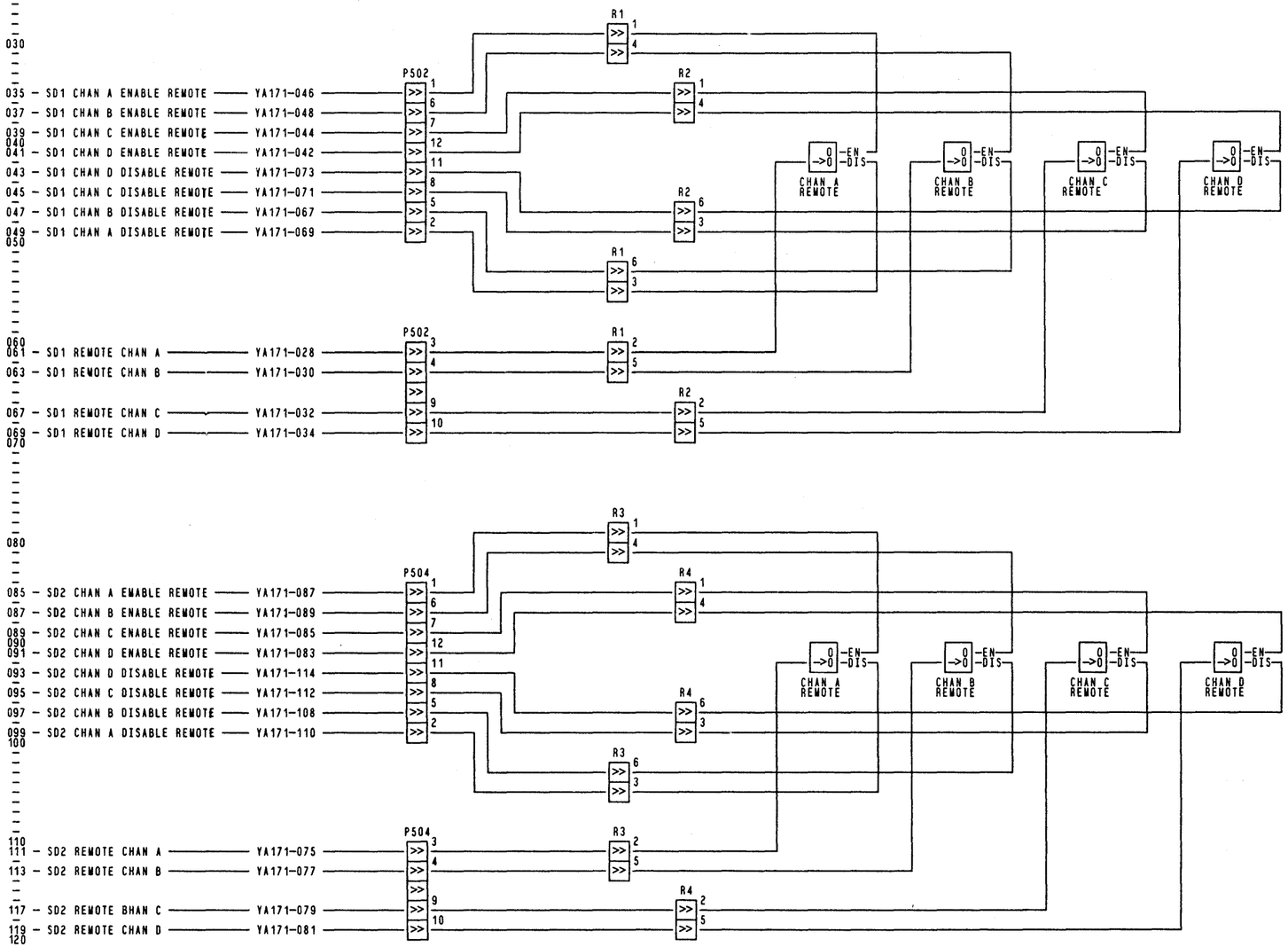


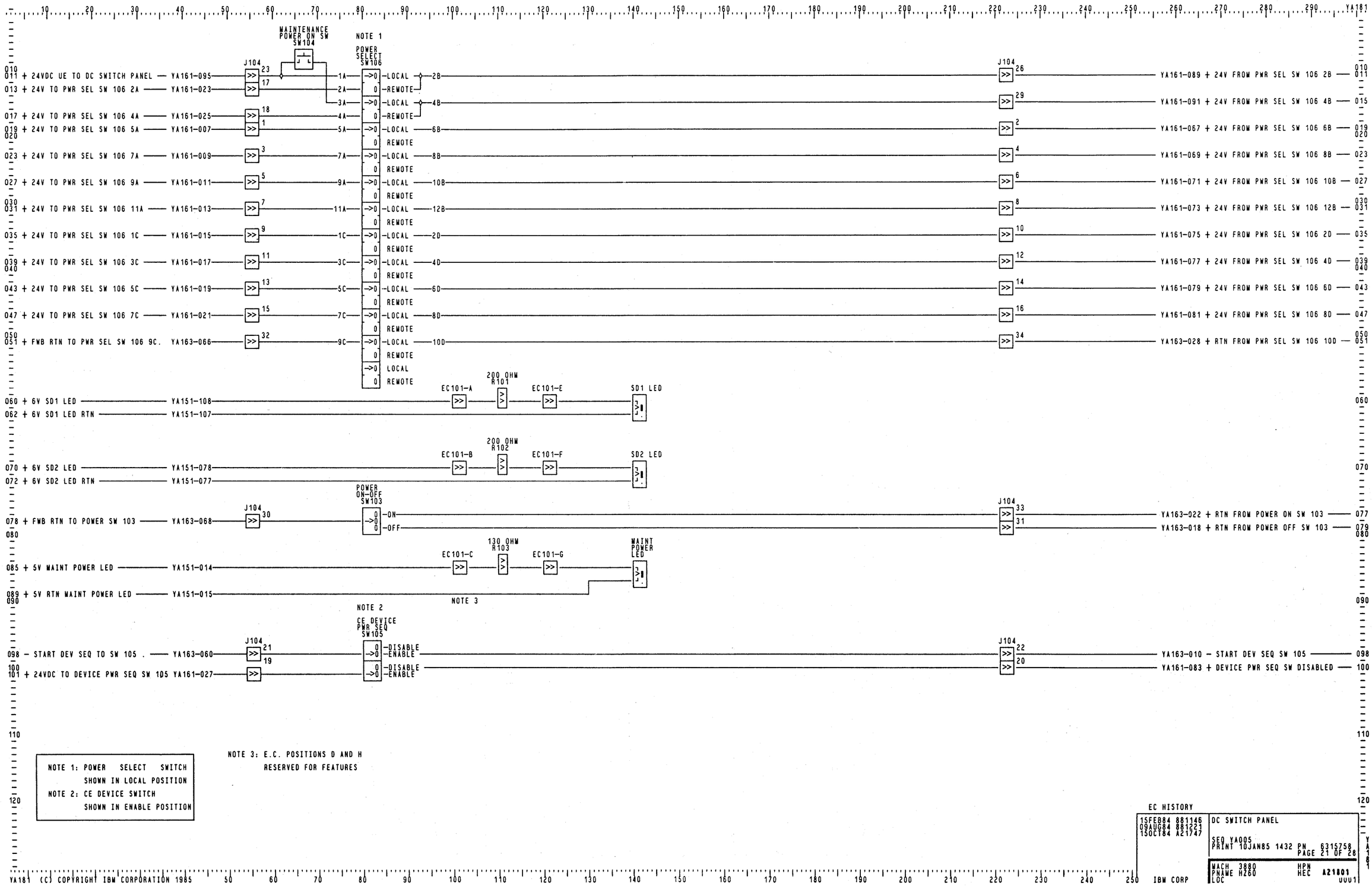
EC HISTORY

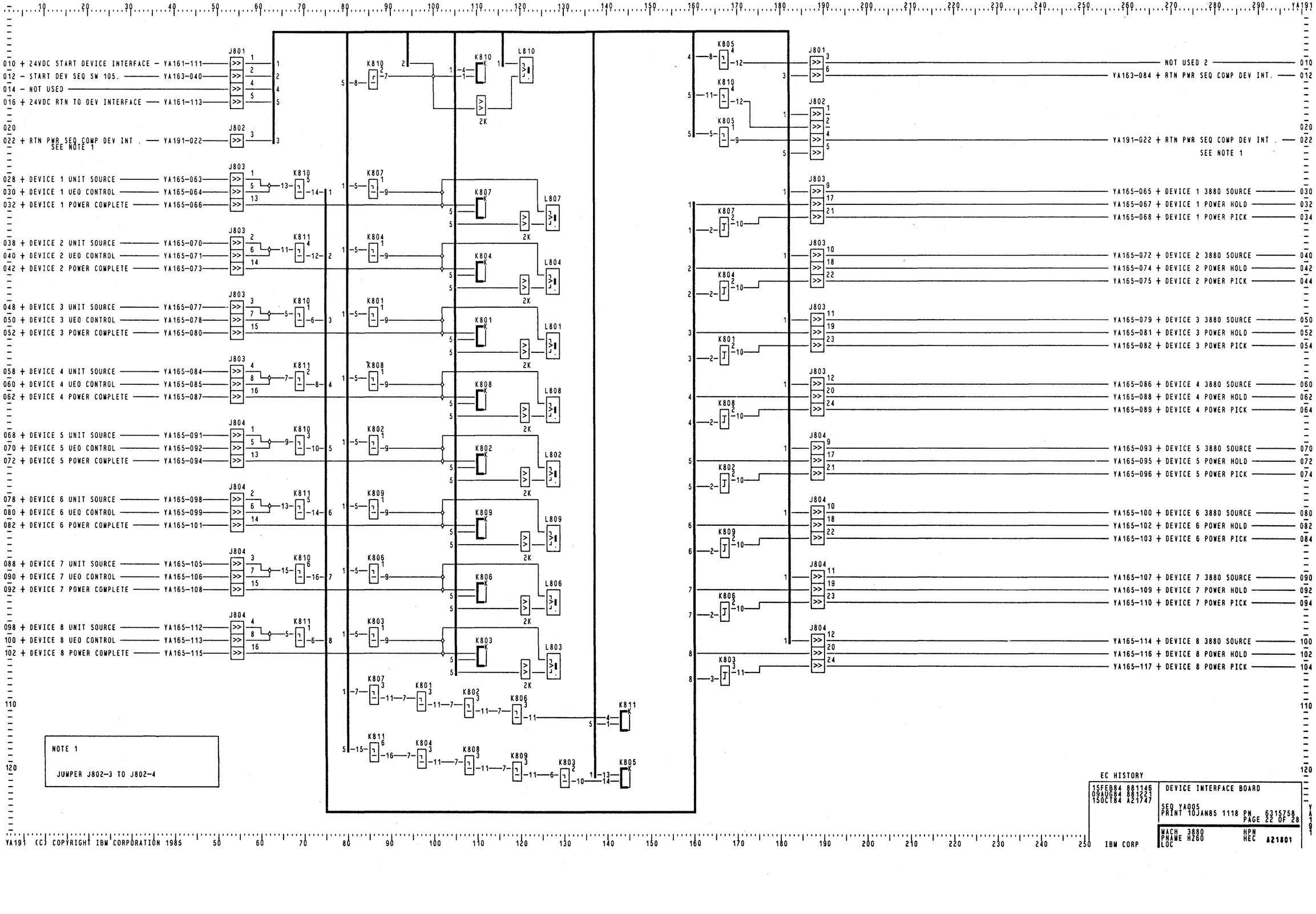
15FEB84 881146
09AUG84 881221
15OCT84 A21747

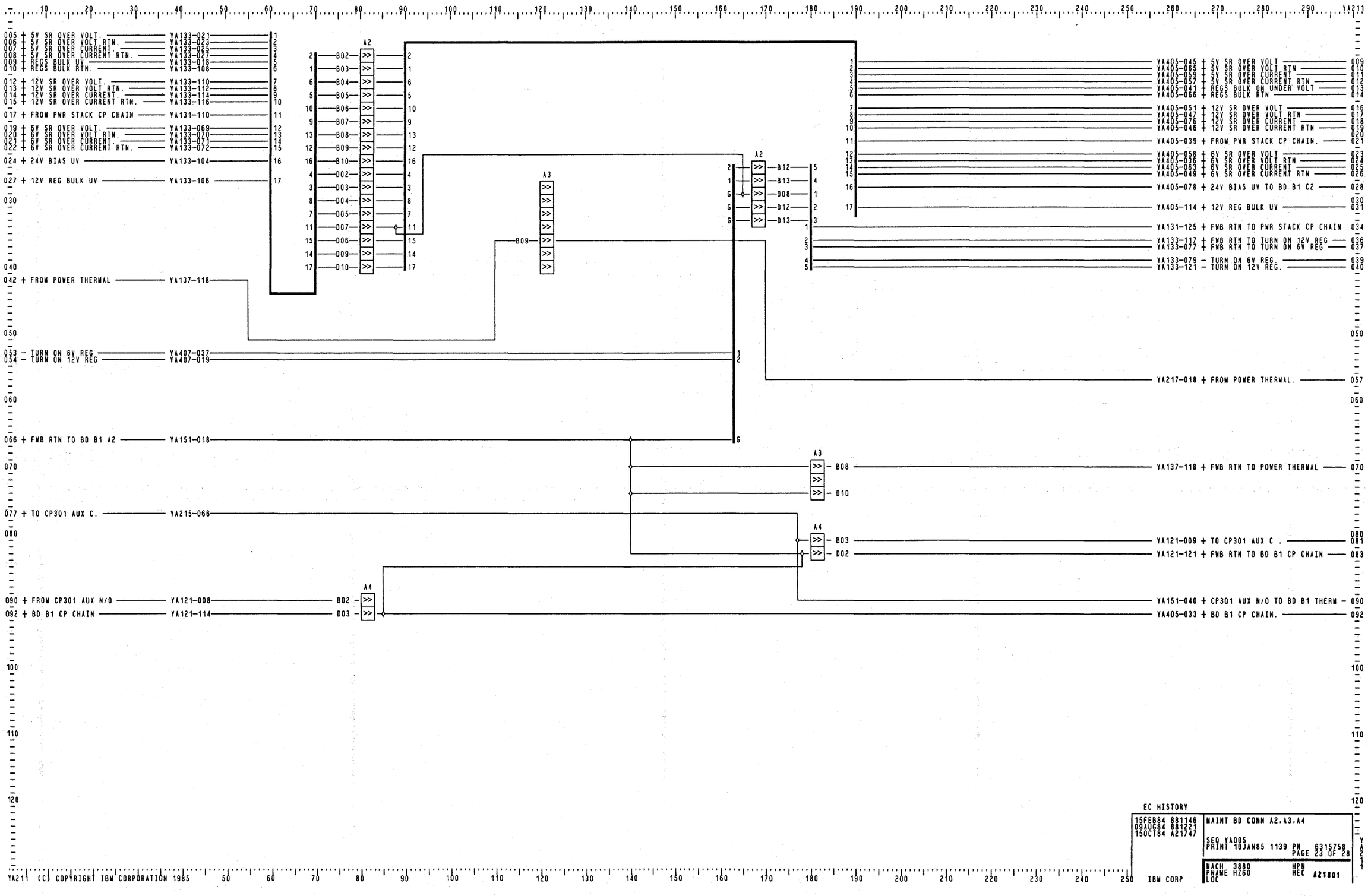
4X1 LOCAL REMOTE SWITCH FEATURE

SEQ YA005
PRINT 10JAN85 0016 PN 6315758
PAGE 20 OF 28

MACH 3880 HPN
PNAME H260 HEC A21801
LOC


MAINTENANCE POWER ON SW SW104
NOTE 1
POWER SELECT SW106
J104
+ 24VDC UE TO DC SWITCH PANEL — YA161-095
+ 24V TO PWR SEL SW 106 2A — YA161-023
+ 24V TO PWR SEL SW 106 4A — YA161-025
+ 24V TO PWR SEL SW 106 5A — YA161-007
+ 24V TO PWR SEL SW 106 7A — YA161-009
+ 24V TO PWR SEL SW 106 9A — YA161-011
+ 24V TO PWR SEL SW 106 11A — YA161-013
+ 24V TO PWR SEL SW 106 1C — YA161-015
+ 24V TO PWR SEL SW 106 3C — YA161-017
+ 24V TO PWR SEL SW 106 5C — YA161-019
+ 24V TO PWR SEL SW 106 7C — YA161-021
+ FWB RTN TO PWR SEL SW 106 9C. YA163-066
LOCAL
REMOTE
2B
4B
6B
8B
10B
12B
2D
4D
6D
8D
10D
YA161-089 + 24V FROM PWR SEL SW 106 2B
YA161-091 + 24V FROM PWR SEL SW 106 4B
YA161-067 + 24V FROM PWR SEL SW 106 6B
YA161-069 + 24V FROM PWR SEL SW 106 8B
YA161-071 + 24V FROM PWR SEL SW 106 10B
YA161-073 + 24V FROM PWR SEL SW 106 12B
YA161-075 + 24V FROM PWR SEL SW 106 2D
YA161-077 + 24V FROM PWR SEL SW 106 4D
YA161-079 + 24V FROM PWR SEL SW 106 6D
YA161-081 + 24V FROM PWR SEL SW 106 8D
YA163-028 + RTN FROM PWR SEL SW 106 10D
200 OHM R101
EC101-A
EC101-E
SD1 LED
+ 6V SD1 LED — YA151-108
+ 6V SD1 LED RTN — YA151-107
200 OHM R102
EC101-B
EC101-F
SD2 LED
+ 6V SD2 LED — YA151-078
+ 6V SD2 LED RTN — YA151-077
POWER ON-OFF SW103
+ FWB RTN TO POWER SW 103 — YA163-068
ON
OFF
YA163-022 + RTN FROM POWER ON SW 103
YA163-018 + RTN FROM POWER OFF SW 103
130 OHM R103
EC101-C
EC101-G
MAINT POWER LED
+ 5V MAINT POWER LED — YA151-014
+ 5V RTN MAINT POWER LED — YA151-015
NOTE 3
NOTE 2
CE DEVICE PWR SEQ SW105
- START DEV SEQ TO SW 105 . — YA163-060
+ 24VDC TO DEVICE PWR SEQ SW 105 YA161-027
DISABLE
ENABLE
YA163-010 - START DEV SEQ SW 105
YA161-083 + DEVICE PWR SEQ SW DISABLED
NOTE 1: POWER SELECT SWITCH SHOWN IN LOCAL POSITION
NOTE 2: CE DEVICE SWITCH SHOWN IN ENABLE POSITION
NOTE 3: E.C. POSITIONS D AND H RESERVED FOR FEATURES
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
DC SWITCH PANEL
SEQ YA005
PRINT 10JAN85 1432 PN 6315758
PAGE 21 OF 28
MACH 3880
PNAME H260
LOC
HPN
HEC A21801
0001
YA181 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP


010 + 24VDC START DEVICE INTERFACE — YA161-111
012 - START DEV SEQ SW 105. — YA163-040
014 - NOT USED
016 + 24VDC RTN TO DEV INTERFACE — YA161-113
020
022 + RTN PWR SEQ COMP DEV INT . — YA191-022
SEE NOTE 1
028 + DEVICE 1 UNIT SOURCE — YA165-063
030 + DEVICE 1 UEO CONTROL — YA165-064
032 + DEVICE 1 POWER COMPLETE — YA165-066
038 + DEVICE 2 UNIT SOURCE — YA165-070
040 + DEVICE 2 UEO CONTROL — YA165-071
042 + DEVICE 2 POWER COMPLETE — YA165-073
048 + DEVICE 3 UNIT SOURCE — YA165-077
050 + DEVICE 3 UEO CONTROL — YA165-078
052 + DEVICE 3 POWER COMPLETE — YA165-080
058 + DEVICE 4 UNIT SOURCE — YA165-084
060 + DEVICE 4 UEO CONTROL — YA165-085
062 + DEVICE 4 POWER COMPLETE — YA165-087
068 + DEVICE 5 UNIT SOURCE — YA165-091
070 + DEVICE 5 UEO CONTROL — YA165-092
072 + DEVICE 5 POWER COMPLETE — YA165-094
078 + DEVICE 6 UNIT SOURCE — YA165-098
080 + DEVICE 6 UEO CONTROL — YA165-099
082 + DEVICE 6 POWER COMPLETE — YA165-101
088 + DEVICE 7 UNIT SOURCE — YA165-105
090 + DEVICE 7 UEO CONTROL — YA165-106
092 + DEVICE 7 POWER COMPLETE — YA165-108
098 + DEVICE 8 UNIT SOURCE — YA165-112
100 + DEVICE 8 UEO CONTROL — YA165-113
102 + DEVICE 8 POWER COMPLETE — YA165-115
J801
J802
J803
J804
K810
K811
K807
K804
K801
K808
K802
K809
K806
K803
K805
L810
L807
L804
L801
L808
L802
L809
L806
L803
2K
NOT USED 2 — 010
YA163-084 + RTN PWR SEQ COMP DEV INT. — 012
YA191-022 + RTN PWR SEQ COMP DEV INT . — 022
SEE NOTE 1
YA165-065 + DEVICE 1 3880 SOURCE — 030
YA165-067 + DEVICE 1 POWER HOLD — 032
YA165-068 + DEVICE 1 POWER PICK — 034
YA165-072 + DEVICE 2 3880 SOURCE — 040
YA165-074 + DEVICE 2 POWER HOLD — 042
YA165-075 + DEVICE 2 POWER PICK — 044
YA165-079 + DEVICE 3 3880 SOURCE — 050
YA165-081 + DEVICE 3 POWER HOLD — 052
YA165-082 + DEVICE 3 POWER PICK — 054
YA165-086 + DEVICE 4 3880 SOURCE — 060
YA165-088 + DEVICE 4 POWER HOLD — 062
YA165-089 + DEVICE 4 POWER PICK — 064
YA165-093 + DEVICE 5 3880 SOURCE — 070
YA165-095 + DEVICE 5 POWER HOLD — 072
YA165-096 + DEVICE 5 POWER PICK — 074
YA165-100 + DEVICE 6 3880 SOURCE — 080
YA165-102 + DEVICE 6 POWER HOLD — 082
YA165-103 + DEVICE 6 POWER PICK — 084
YA165-107 + DEVICE 7 3880 SOURCE — 090
YA165-109 + DEVICE 7 POWER HOLD — 092
YA165-110 + DEVICE 7 POWER PICK — 094
YA165-114 + DEVICE 8 3880 SOURCE — 100
YA165-116 + DEVICE 8 POWER HOLD — 102
YA165-117 + DEVICE 8 POWER PICK — 104
NOTE 1
JUMPER J802-3 TO J802-4
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
DEVICE INTERFACE BOARD
SEQ YA005
PRINT 10JAN85 1118 PN 6315758
PAGE 22 OF 28
MACH 3880
PNAME HZ60
LOC
HPN
HEC A21801
IBM CORP
YA191
YA191 (C) COPYRIGHT IBM CORPORATION 1985


005 + 5V SR OVER VOLT. — YA133-021 — 1
006 + 5V SR OVER VOLT RTN. — YA133-023 — 2
007 + 5V SR OVER CURRENT. — YA133-025 — 3
008 + 5V SR OVER CURRENT RTN. — YA133-027 — 4
009 + REGS BULK UV — YA133-018 — 5
010 + REGS BULK RTN. — YA133-108 — 6
012 + 12V SR OVER VOLT. — YA133-110 — 7
013 + 12V SR OVER VOLT RTN. — YA133-112 — 8
014 + 12V SR OVER CURRENT. — YA133-114 — 9
015 + 12V SR OVER CURRENT RTN. — YA133-116 — 10
017 + FROM PWR STACK CP CHAIN — YA131-110 — 11
019 + 6V SR OVER VOLT. — YA133-069 — 12
020 + 6V SR OVER VOLT RTN. — YA133-070 — 13
021 + 6V SR OVER CURRENT. — YA133-071 — 14
022 + 6V SR OVER CURRENT RTN. — YA133-072 — 15
024 + 24V BIAS UV — YA133-104 — 16
027 + 12V REG BULK UV — YA133-106 — 17
042 + FROM POWER THERMAL — YA137-118
053 - TURN ON 6V REG — YA407-037 — 1
054 - TURN ON 12V REG — YA407-019 — 2
066 + FWB RTN TO BD B1 A2 — YA151-018 — G
077 + TO CP301 AUX C. — YA215-066
090 + FROM CP301 AUX N/O — YA121-008
092 + BD B1 CP CHAIN — YA121-114
A2
B02 B03 B04 B05 B06 B07 B08 B09 B10 D02 D03 D04 D05 D07 D06 D09 D10
A3
B09
A4
B02 D03
A2
B12 B13 D08 D12 D13
A3
B08 D10
A4
B03 D02
1 YA405-045 + 5V SR OVER VOLT — 009
2 YA405-065 + 5V SR OVER VOLT RTN — 010
3 YA405-059 + 5V SR OVER CURRENT — 011
4 YA405-057 + 5V SR OVER CURRENT RTN — 012
5 YA405-041 + REGS BULK ON UNDER VOLT — 013
6 YA405-066 + REGS BULK RTN — 014
7 YA405-051 + 12V SR OVER VOLT — 016
8 YA405-047 + 12V SR OVER VOLT RTN — 017
9 YA405-076 + 12V SR OVER CURRENT — 018
10 YA405-046 + 12V SR OVER CURRENT RTN — 019
11 YA405-039 + FROM PWR STACK CP CHAIN. — 021
12 YA405-058 + 6V SR OVER VOLT — 023
13 YA405-036 + 6V SR OVER VOLT RTN — 024
14 YA405-063 + 6V SR OVER CURRENT — 025
15 YA405-049 + 6V SR OVER CURRENT RTN — 026
16 YA405-078 + 24V BIAS UV TO BD B1 C2 — 028
17 YA405-114 + 12V REG BULK UV — 031
1 YA131-125 + FWB RTN TO PWR STACK CP CHAIN — 034
2 YA133-117 + FWB RTN TO TURN ON 12V REG — 036
3 YA133-077 + FWB RTN TO TURN ON 6V REG — 037
4 YA133-079 - TURN ON 6V REG — 039
5 YA133-121 - TURN ON 12V REG. — 040
YA217-018 + FROM POWER THERMAL. — 057
YA137-118 + FWB RTN TO POWER THERMAL — 070
YA121-009 + TO CP301 AUX C . — 081
YA121-121 + FWB RTN TO BD B1 CP CHAIN — 083
YA151-040 + CP301 AUX N/O TO BD B1 THERM - 090
YA405-033 + BD B1 CP CHAIN. — 092
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15FEB84 881146
09AUG84 881221
15OCT84 A21747
MAINT BD CONN A2.A3.A4
SEQ YA005
PRINT 10JAN85 1139 PN 6315758
PAGE 23 OF 28
MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC
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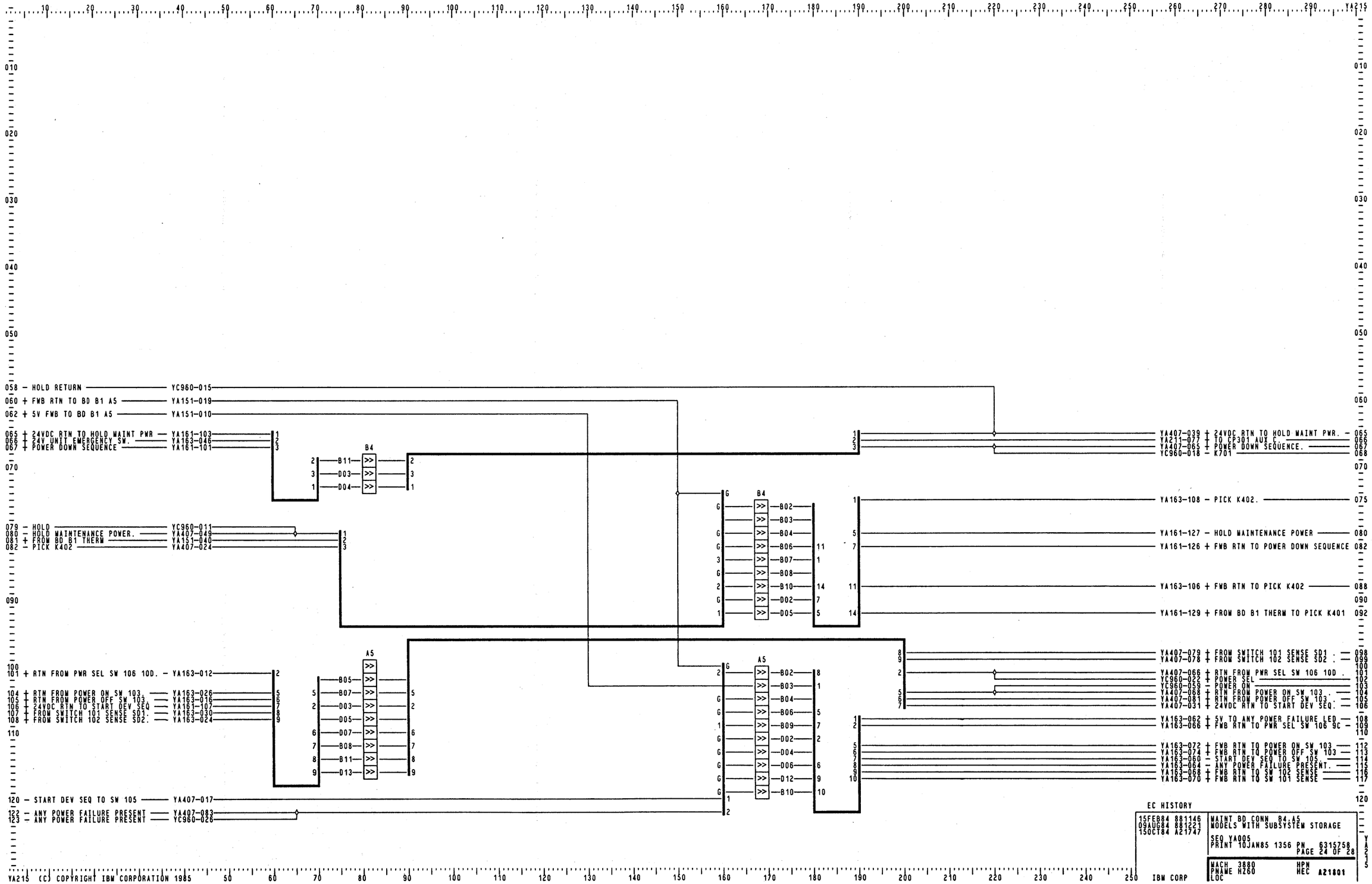
058 – HOLD RETURN — YC960–015
060 + FWB RTN TO BD B1 A5 — YA151–019
062 + 5V FWB TO BD B1 A5 — YA151–010
065 + 24VDC RTN TO HOLD MAINT PWR — YA161–103
066 + 24V UNIT EMERGENCY SW. — YA163–046
067 + POWER DOWN SEQUENCE — YA161–101
B4
B11
D03
D04
YA407–039 + 24VDC RTN TO HOLD MAINT PWR. – 065
YA211–077 + TO CP301 AUX C. – 066
YA407–065 + POWER DOWN SEQUENCE. – 067
YC960–018 – K701 – 068
079 – HOLD — YC960–011
080 – HOLD MAINTENANCE POWER. — YA407–049
081 + FROM BD B1 THERM — YA151–040
082 – PICK K402 — YA407–024
B4
B02
B03
B04
B06
B07
B08
B10
D02
D05
YA163–108 – PICK K402. – 075
YA161–127 – HOLD MAINTENANCE POWER – 080
YA161–126 + FWB RTN TO POWER DOWN SEQUENCE 082
YA163–106 + FWB RTN TO PICK K402 – 088
YA161–129 + FROM BD B1 THERM TO PICK K401 092
A5
B05
B07
D03
D05
D07
B08
B11
D13
101 + RTN FROM PWR SEL SW 106 10D. – YA163–012
104 + RTN FROM POWER ON SW 103. — YA163–026
105 + RTN FROM POWER OFF SW 103. — YA163–016
106 + 24VDC RTN TO START DEV SEQ — YA161–107
107 + FROM SWITCH 101 SENSE SD1. — YA163–030
108 + FROM SWITCH 102 SENSE SD2. — YA163–024
A5
B02
B03
B04
B06
B09
D02
D04
D06
D12
B10
YA407–079 + FROM SWITCH 101 SENSE SD1 . – 098
YA407–078 + FROM SWITCH 102 SENSE SD2 . – 099
YA407–066 + RTN FROM PWR SEL SW 106 10D . 101
YC960–022 + POWER SEL 102
YC960–059 – POWER ON 103
YA407–068 + RTN FROM POWER ON SW 103 . 104
YA407–081 + RTN FROM POWER OFF SW 103 . 105
YA407–031 + 24VDC RTN TO START DEV SEQ. 106
YA163–062 + 5V TO ANY POWER FAILURE LED – 108
YA163–066 + FWB RTN TO PWR SEL SW 106 9C – 109
YA163–072 + FWB RTN TO POWER ON SW 103 – 112
YA163–074 + FWB RTN TO POWER OFF SW 103 – 113
YA163–060 – START DEV SEQ TO SW 105 – 114
YA163–064 – ANY POWER FAILURE PRESENT. – 115
YA163–068 + FWB RTN TO SW 102 SENSE – 116
YA163–070 + FWB RTN TO SW 101 SENSE – 117
120 – START DEV SEQ TO SW 105 — YA407–017
122 – ANY POWER FAILURE PRESENT — YA407–083
123 – ANY POWER FAILURE PRESENT — YC960–026
EC HISTORY
15FEB84 881146 MAINT BD CONN B4,A5
09AUG84 881221 MODELS WITH SUBSYSTEM STORAGE
150CT84 A21747
SEQ YA905
PRINT 10JAN85 1356 PN 6315758
PAGE 24 OF 28
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LOC
IBM CORP
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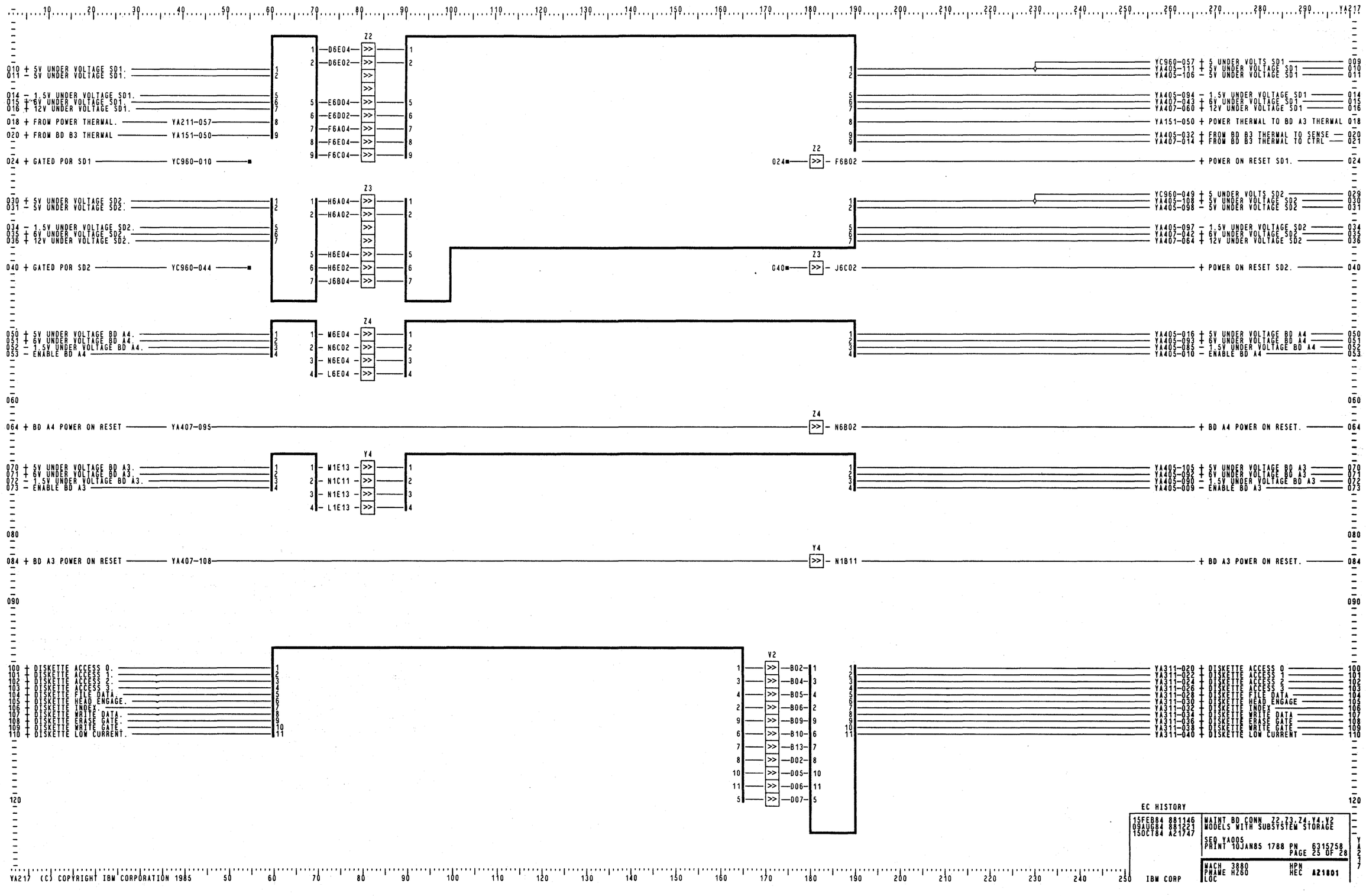
Z2
Z3
Z4
Y4
V2
010 + 5V UNDER VOLTAGE SD1.
011 - 5V UNDER VOLTAGE SD1.
014 - 1.5V UNDER VOLTAGE SD1.
015 + 6V UNDER VOLTAGE SD1.
016 + 12V UNDER VOLTAGE SD1.
018 + FROM POWER THERMAL. YA211-057
020 + FROM BD B3 THERMAL YA151-050
024 + GATED POR SD1 YC960-010
D6E04
D6E02
E6D04
E6D02
F6A04
F6E04
F6C04
YC960-057 + 5 UNDER VOLTS SD1
YA405-111 + 5V UNDER VOLTAGE SD1
YA405-106 - 5V UNDER VOLTAGE SD1
YA405-094 - 1.5V UNDER VOLTAGE SD1
YA407-043 + 6V UNDER VOLTAGE SD1
YA407-060 + 12V UNDER VOLTAGE SD1
YA151-050 + POWER THERMAL TO BD A3 THERMAL
YA405-032 + FROM BD B3 THERMAL TO SENSE
YA407-014 + FROM BD B3 THERMAL TO CTRL
024 F6B02 + POWER ON RESET SD1.
030 + 5V UNDER VOLTAGE SD2.
031 - 5V UNDER VOLTAGE SD2.
034 - 1.5V UNDER VOLTAGE SD2.
035 + 6V UNDER VOLTAGE SD2.
036 + 12V UNDER VOLTAGE SD2.
040 + GATED POR SD2 YC960-044
H6A04
H6A02
H6E04
H6E02
J6B04
YC960-049 + 5 UNDER VOLTS SD2
YA405-108 + 5V UNDER VOLTAGE SD2
YA405-098 - 5V UNDER VOLTAGE SD2
YA405-097 - 1.5V UNDER VOLTAGE SD2
YA407-042 + 6V UNDER VOLTAGE SD2
YA407-064 + 12V UNDER VOLTAGE SD2
G40 J6C02 + POWER ON RESET SD2.
050 + 5V UNDER VOLTAGE BD A4.
051 + 6V UNDER VOLTAGE BD A4.
052 - 1.5V UNDER VOLTAGE BD A4.
053 - ENABLE BD A4
M6E04
N6C02
N6E04
L6E04
YA405-016 + 5V UNDER VOLTAGE BD A4
YA405-093 + 6V UNDER VOLTAGE BD A4
YA405-085 - 1.5V UNDER VOLTAGE BD A4
YA405-010 - ENABLE BD A4
064 + BD A4 POWER ON RESET YA407-095
N6B02 + BD A4 POWER ON RESET.
070 + 5V UNDER VOLTAGE BD A3.
071 + 6V UNDER VOLTAGE BD A3.
072 - 1.5V UNDER VOLTAGE BD A3.
073 - ENABLE BD A3
M1E13
N1C11
N1E13
L1E13
YA405-105 + 5V UNDER VOLTAGE BD A3
YA405-092 + 6V UNDER VOLTAGE BD A3
YA405-090 - 1.5V UNDER VOLTAGE BD A3
YA405-009 - ENABLE BD A3
084 + BD A3 POWER ON RESET YA407-108
N1B11 + BD A3 POWER ON RESET.
100 + DISKETTE ACCESS 0.
101 + DISKETTE ACCESS 1.
102 + DISKETTE ACCESS 2.
103 + DISKETTE ACCESS 3.
104 + DISKETTE FILE DATA.
105 + DISKETTE HEAD ENGAGE.
106 + DISKETTE INDEX.
107 + DISKETTE WRITE DATA.
108 + DISKETTE ERASE GATE.
109 + DISKETTE WRITE GATE.
110 + DISKETTE LOW CURRENT.
B02
B04
B05
B06
B09
B10
B13
D02
D05
D06
D07
YA311-020 + DISKETTE ACCESS 0
YA311-022 + DISKETTE ACCESS 1
YA311-024 + DISKETTE ACCESS 2
YA311-026 + DISKETTE ACCESS 3
YA311-028 + DISKETTE FILE DATA
YA311-030 + DISKETTE HEAD ENGAGE
YA311-032 + DISKETTE INDEX
YA311-034 + DISKETTE WRITE DATA
YA311-036 + DISKETTE ERASE GATE
YA311-038 + DISKETTE WRITE GATE
YA311-040 + DISKETTE LOW CURRENT
EC HISTORY
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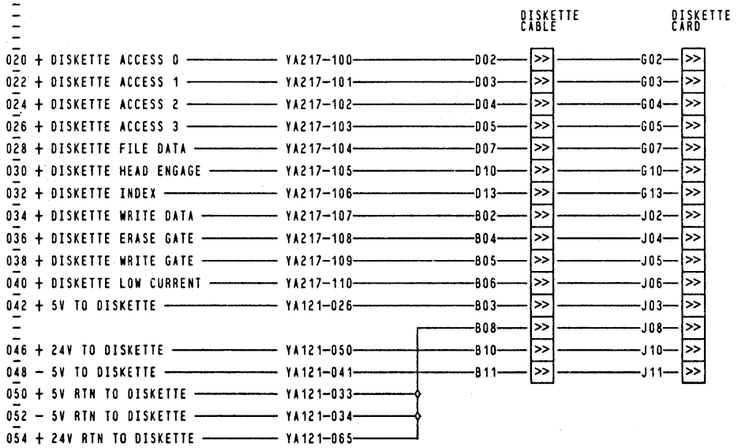
09AUG84 881221
15OCT84 A21747
MAINT BD CONN Z2,Z3,Z4,Y4,V2
MODELS WITH SUBSYSTEM STORAGE
SEQ YA005
PRINT 10JAN85 1788 PN 6315758
PAGE 25 OF 28
WACH 3880
PNAME HZ60
LOC
MPN
REC A21801
YA217 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA217



EC HISTORY

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15OCT84 A21747

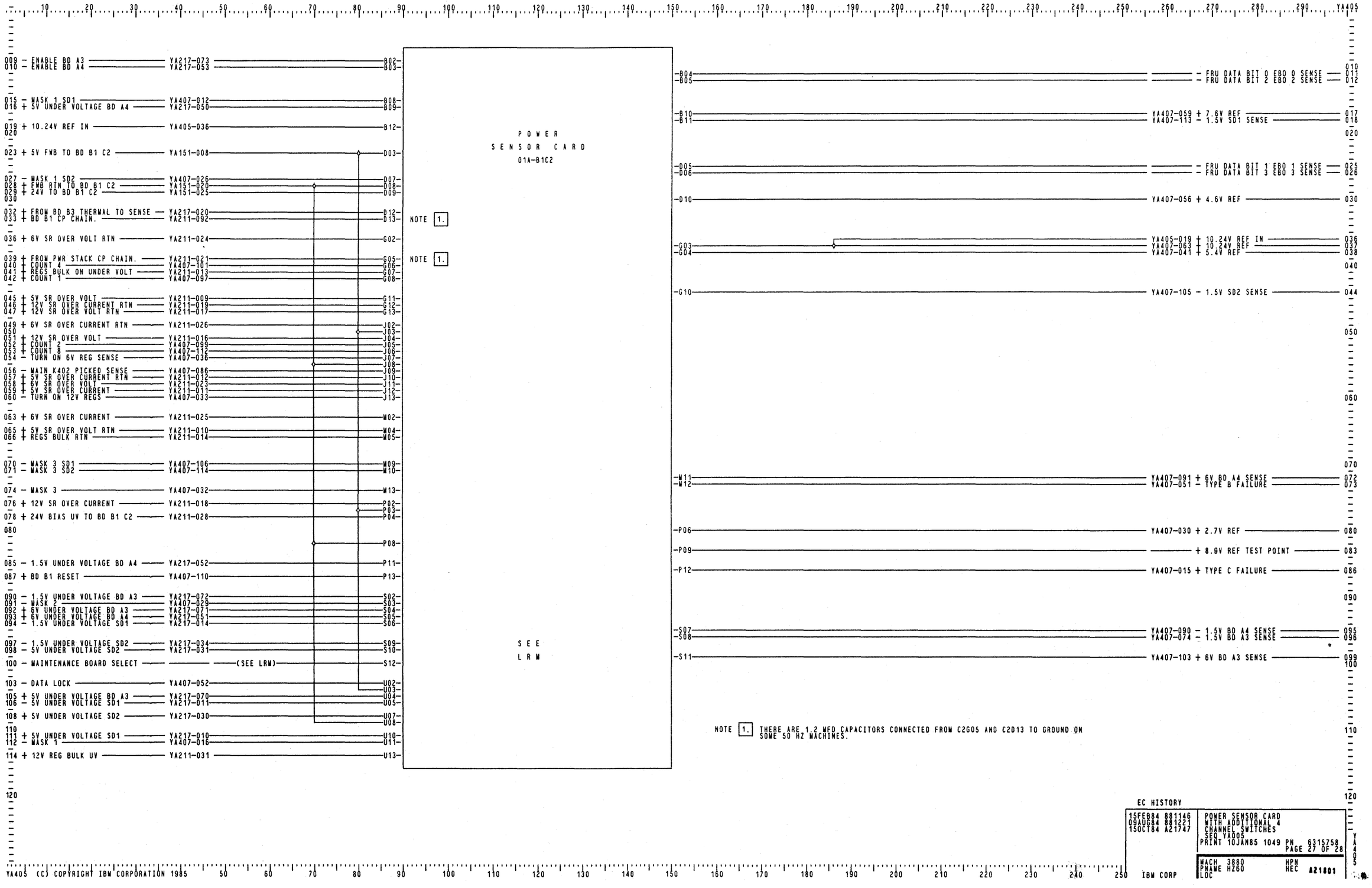
DISKETTE

SEQ YA005
PRINT 10JAN85 1773 PN 6315758
PAGE 26 OF 28

MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC 0001

YA311

IBM CORP


POWER
SENSOR CARD
01A-B1C2
009 - ENABLE BD A3 — YA217-073 — B02
010 - ENABLE BD A4 — YA217-053 — B03
015 - MASK 1 SD1 — YA407-012 — B08
016 + 5V UNDER VOLTAGE BD A4 — YA217-050 — B09
019 + 10.24V REF IN — YA405-036 — B12
023 + 5V FWB TO BD B1 C2 — YA151-008 — D03
027 - MASK 1 SD2 — YA407-026 — D07
028 + FWB RTN TO BD B1 C2 — YA151-020 — D08
029 + 24V TO BD B1 C2 — YA151-025 — D09
032 + FROM BD B3 THERMAL TO SENSE — YA217-020 — D12
033 + BD B1 CP CHAIN. — YA211-092 — D13 NOTE 1.
036 + 6V SR OVER VOLT RTN — YA211-024 — G02
039 + FROM PWR STACK CP CHAIN. — YA211-021 — G05 NOTE 1.
040 + COUNT 4 — YA407-101 — G06
041 + REGS BULK ON UNDER VOLT — YA211-013 — G07
042 + COUNT 1 — YA407-097 — G08
045 + 5V SR OVER VOLT — YA211-009 — G11
046 + 12V SR OVER CURRENT RTN — YA211-019 — G12
047 + 12V SR OVER VOLT RTN — YA211-017 — G13
049 + 6V SR OVER CURRENT RTN — YA211-026 — J02
051 + 12V SR OVER VOLT — YA211-016 — J04
052 + COUNT 2 — YA407-099 — J05
053 + COUNT 8 — YA407-112 — J06
054 - TURN ON 6V REG SENSE — YA407-035 — J07
056 - MAIN K402 PICKED SENSE — YA407-086 — J09
057 + 5V SR OVER CURRENT RTN — YA211-012 — J10
058 + 6V SR OVER VOLT — YA211-023 — J11
059 + 5V SR OVER CURRENT — YA211-011 — J12
060 - TURN ON 12V REGS — YA407-033 — J13
063 + 6V SR OVER CURRENT — YA211-025 — M02
065 + 5V SR OVER VOLT RTN — YA211-010 — M04
066 + REGS BULK RTN — YA211-014 — M05
070 - MASK 3 SD1 — YA407-106 — M09
071 - MASK 3 SD2 — YA407-114 — M10
074 - MASK 3 — YA407-032 — M13
076 + 12V SR OVER CURRENT — YA211-018 — P02
078 + 24V BIAS UV TO BD B1 C2 — YA211-028 — P03 P04
P08
085 - 1.5V UNDER VOLTAGE BD A4 — YA217-052 — P11
087 + BD B1 RESET — YA407-110 — P13
090 - 1.5V UNDER VOLTAGE BD A3 — YA217-072 — S02
091 - MASK 2 — YA407-029 — S03
092 + 6V UNDER VOLTAGE BD A3 — YA217-071 — S04
093 + 6V UNDER VOLTAGE BD A4 — YA217-051 — S05
094 - 1.5V UNDER VOLTAGE SD1 — YA217-014 — S06
097 - 1.5V UNDER VOLTAGE SD2 — YA217-034 — S09
098 - 5V UNDER VOLTAGE SD2 — YA217-031 — S10
100 - MAINTENANCE BOARD SELECT — (SEE LRM) — S12
103 - DATA LOCK — YA407-052 — U02 U03
105 + 5V UNDER VOLTAGE BD A3 — YA217-070 — U04
106 - 5V UNDER VOLTAGE SD1 — YA217-011 — U05
108 + 5V UNDER VOLTAGE SD2 — YA217-030 — U07 U08
111 + 5V UNDER VOLTAGE SD1 — YA217-010 — U10
112 - MASK 1 — YA407-016 — U11
114 + 12V REG BULK UV — YA211-031 — U13
SEE
LRM
B04 - FRU DATA BIT 0 EBO 0 SENSE
B05 - FRU DATA BIT 2 EBO 2 SENSE
B10 — YA407-059 + 7.6V REF
B11 — YA407-113 - 1.5V SD1 SENSE
D05 - FRU DATA BIT 1 EBO 1 SENSE
D06 - FRU DATA BIT 3 EBO 3 SENSE
D10 — YA407-056 + 4.6V REF
G03 — YA405-019 + 10.24V REF IN
G03 — YA407-063 + 10.24V REF
G04 — YA407-041 + 5.4V REF
G10 — YA407-105 - 1.5V SD2 SENSE
M11 — YA407-091 + 6V BD A4 SENSE
M12 — YA407-051 - TYPE B FAILURE
P06 — YA407-030 + 2.7V REF
P09 — + 8.9V REF TEST POINT
P12 — YA407-015 + TYPE C FAILURE
S07 — YA407-090 - 1.5V BD A4 SENSE
S08 — YA407-074 - 1.5V BD A3 SENSE
S11 — YA407-103 + 6V BD A3 SENSE
NOTE 1. THERE ARE 1.2 MFD CAPACITORS CONNECTED FROM C2G05 AND C2D13 TO GROUND ON SOME 50 HZ MACHINES.
EC HISTORY
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09AUG84 881221
15OCT84 A21747
POWER SENSOR CARD
WITH ADDITIONAL 4
CHANNEL SWITCHES
SEQ YA005
PRINT 10JAN85 1049 PN 6315758
PAGE 27 OF 28
MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC
IBM CORP
YA405
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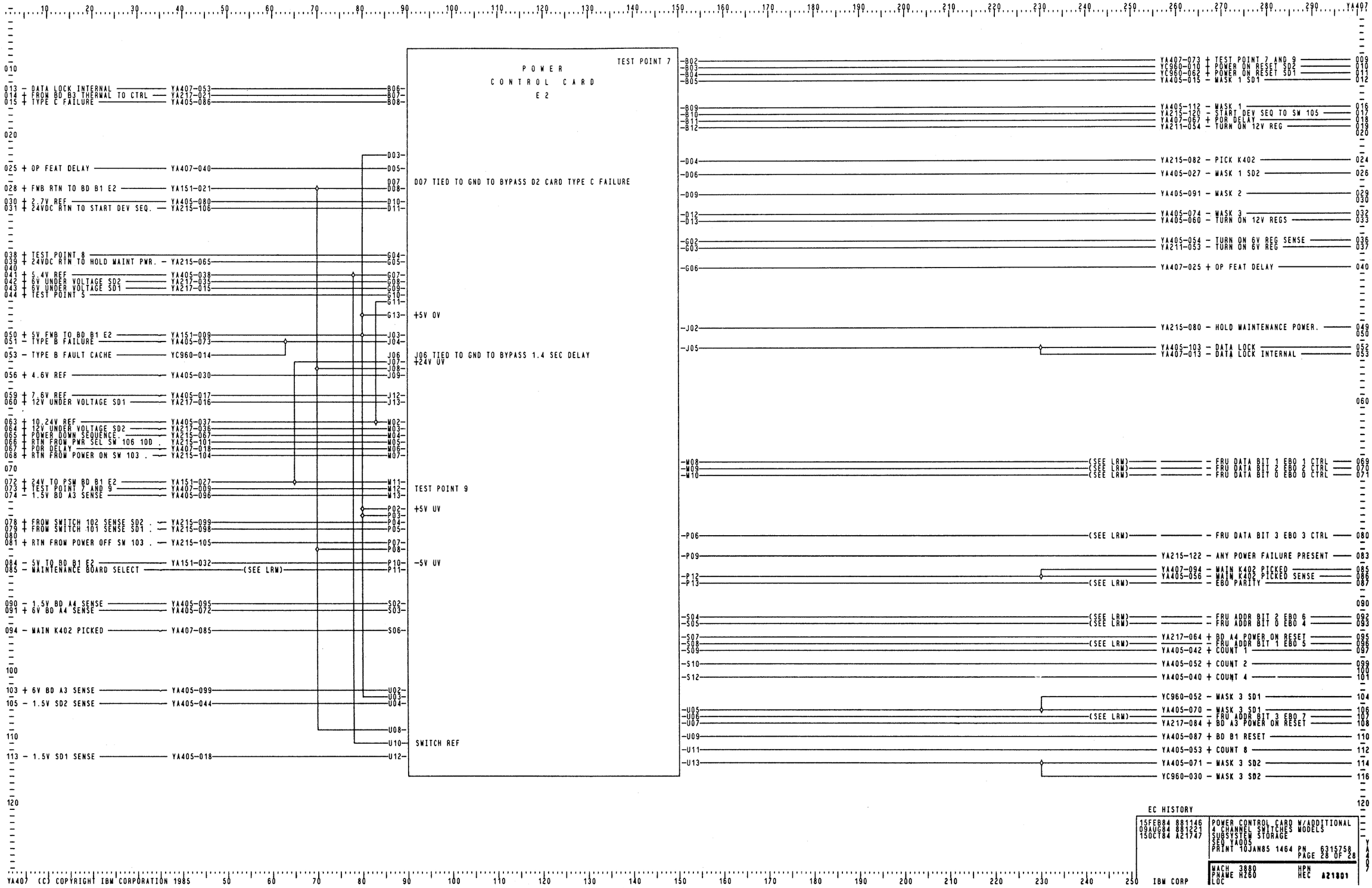

POWER
CONTROL CARD
E2
TEST POINT 7
013 - DATA LOCK INTERNAL — YA407-053 — B06
014 + FROM BD B3 THERMAL TO CTRL — YA217-021 — B07
015 + TYPE C FAILURE — YA405-086 — B08
025 + OP FEAT DELAY — YA407-040 — D05
D07 TIED TO GND TO BYPASS D2 CARD TYPE C FAILURE
028 + FWB RTN TO BD B1 E2 — YA151-021 — D08
030 + 2.7V REF — YA405-080 — D10
031 + 24VDC RTN TO START DEV SEQ. — YA215-106 — D11
038 + TEST POINT 8 — G04
039 + 24VDC RTN TO HOLD MAINT PWR. — YA215-065 — G05
041 + 5.4V REF — YA405-038 — G07
042 + 6V UNDER VOLTAGE SD2 — YA217-035 — G08
043 + 6V UNDER VOLTAGE SD1 — YA217-015 — G09
044 + TEST POINT 5 — G10
G13 +5V OV
050 + 5V FWB TO BD B1 E2 — YA151-009 — J03
051 - TYPE B FAILURE — YA405-073 — J04
053 - TYPE B FAULT CACHE — YC960-014 — J06
J06 TIED TO GND TO BYPASS 1.4 SEC DELAY +24V UV
056 + 4.6V REF — YA405-030 — J09
059 + 7.6V REF — YA405-017 — J12
060 + 12V UNDER VOLTAGE SD1 — YA217-016 — J13
063 + 10.24V REF — YA405-037 — M02
064 + 12V UNDER VOLTAGE SD2 — YA217-036 — M03
065 + POWER DOWN SEQUENCE. — YA215-067 — M04
066 + RTN FROM PWR SEL SW 106 10D . — YA215-101 — M05
067 + POR DELAY — YA407-018 — M06
068 + RTN FROM POWER ON SW 103 . — YA215-104 — M07
072 + 24V TO PSW BD B1 E2 — YA151-027 — M11
073 + TEST POINT 7 AND 9 — YA407-009 — M12
074 - 1.5V BD A3 SENSE — YA405-096 — M13
TEST POINT 9
P02 +5V UV
P03
078 + FROM SWITCH 102 SENSE SD2 . — YA215-099 — P04
079 + FROM SWITCH 101 SENSE SD1 . — YA215-098 — P05
081 + RTN FROM POWER OFF SW 103 . — YA215-105 — P07
P08
084 - 5V TO BD B1 E2 — YA151-032 — P10 -5V UV
085 - MAINTENANCE BOARD SELECT — (SEE LRM) — P11
090 - 1.5V BD A4 SENSE — YA405-095 — S02
091 + 6V BD A4 SENSE — YA405-072 — S03
094 - MAIN K402 PICKED — YA407-085 — S06
103 + 6V BD A3 SENSE — YA405-099 — U02
105 - 1.5V SD2 SENSE — YA405-044 — U04
U08
U10 SWITCH REF
113 - 1.5V SD1 SENSE — YA405-018 — U12
B02 — YA407-073 + TEST POINT 7 AND 9 — 009
B03 — YC960-010 + POWER ON RESET SD2 — 010
B04 — YC960-062 + POWER ON RESET SD1 — 011
B05 — YA405-015 - MASK 1 SD1 — 012
B09 — YA405-112 - MASK 1 — 016
B10 — YA215-120 - START DEV SEQ TO SW 105 — 017
B11 — YA407-057 + POR DELAY — 018
B12 — YA211-054 - TURN ON 12V REG — 019
D04 — YA215-082 - PICK K402 — 024
D06 — YA405-027 - MASK 1 SD2 — 026
D09 — YA405-091 - MASK 2 — 029
D12 — YA405-074 - MASK 3 — 032
D13 — YA405-060 - TURN ON 12V REGS — 033
G02 — YA405-054 - TURN ON 6V REG SENSE — 036
G03 — YA211-053 - TURN ON 6V REG — 037
G06 — YA407-025 + OP FEAT DELAY — 040
J02 — YA215-080 - HOLD MAINTENANCE POWER. — 049
J05 — YA405-103 - DATA LOCK — 052
YA407-013 - DATA LOCK INTERNAL — 053
M08 — (SEE LRM) — - FRU DATA BIT 1 EBO 1 CTRL — 069
M09 — (SEE LRM) — - FRU DATA BIT 2 EBO 2 CTRL — 070
M10 — (SEE LRM) — - FRU DATA BIT 0 EBO 0 CTRL — 071
P06 — (SEE LRM) — - FRU DATA BIT 3 EBO 3 CTRL — 080
P09 — YA215-122 - ANY POWER FAILURE PRESENT — 083
P12 — YA407-094 - MAIN K402 PICKED — 085
P12 — YA405-056 - MAIN K402 PICKED SENSE — 086
P13 — (SEE LRM) — - EBO PARITY — 087
S04 — (SEE LRM) — - FRU ADDR BIT 2 EBO 6 — 092
S05 — (SEE LRM) — - FRU ADDR BIT 0 EBO 4 — 093
S07 — YA217-064 + BD A4 POWER ON RESET — 095
S08 — (SEE LRM) — - FRU ADDR BIT 1 EBO 5 — 096
S09 — YA405-042 + COUNT 1 — 097
S10 — YA405-052 + COUNT 2 — 099
S12 — YA405-040 + COUNT 4 — 101
YC960-052 - MASK 3 SD1 — 104
U05 — YA405-070 - MASK 3 SD1 — 106
U06 — (SEE LRM) — - FRU ADDR BIT 3 EBO 7 — 107
U07 — YA217-084 + BD A3 POWER ON RESET — 108
U09 — YA405-087 + BD B1 RESET — 110
U11 — YA405-053 + COUNT 8 — 112
U13 — YA405-071 - MASK 3 SD2 — 114
YC960-030 - MASK 3 SD2 — 116
EC HISTORY
15FEB84 881146
09AUG84 881221
15OCT84 A21747
POWER CONTROL CARD W/ADDITIONAL 4 CHANNEL SWITCHES MODELS SUBSYSTEM STORAGE
SEQ YA005
PRINT 10JAN85 1464 PN 6315758 PAGE 28 OF 28
MACH 3880 HPN
PNAME HZ60 HEC A21801
LOC
YA407 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA407

```
3333    888    888    000
   3   8   8  8   8  0   0
  333   888   888   0   0
   3   8   8  8   8  0   0
3333    888    888    000
```

```
PPPP   00000  W   W  EEEEE  RRRR
P   P  0   0  W   W  E      R   R
PPPP   0   0  W W W  EE     RRRR
P      0   0  WW WW  E      R  R
P      00000  W   W  EEEEE  R   R

L      00000  GGGGG  IIIII  CCCCC
L      0   0  G      I      C
L      0   0  G  GG   I      C
L      0   0  G   G   I      C
LLLLL  00000  GGGGG  IIIII  CCCCC

6      000    H   H  ZZZZZ    888    CCCCC  H   H
6     0   0   H   H      Z   8   8   C      H   H
6666  0   0   HHHHH     Z    888    C      HHHHH
6   6 0   0   H   H    Z     8   8   C      H   H
 666   000    H   H  ZZZZZ    888    CCCCC  H   H
```

8 CH

P/N 6315759

SUBSYSTEM STORAGE POWER

P/N 6315753

EC HISTORY

09AUG84 881221

INDEX TABLE OF CONTENTS
MODELS WITH SUBSYSTEM STORAGE

SEQ YA009
PRINT 10JAN85 1615 PN 6315759
PAGE 1 OF 32

WACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

DISKETTE

5V REG ASM
PN 949941

FAN

6V REG

PN 2342734

MULTI-LEVEL
REG

PN 2290588

CIRCUIT PROTECTOR PANEL

DC BULK POWER

SD AUX POWER CXX
(USED WITH SUBSYSTEM STORAGE)

REG C10

REG C20

FAN

MAINTENANCE
SUPPLY

AC POWER BOX

SUBSYSTEM STORAGE BXX
CACHE POWER

REG B10

REG B20

REG B30

REG B40

FAN

SUBSYSTEM STORAGE AXX
AC/CNTL POWER

REG A20

CENTRAL
POWER
CONTROL

PN 2288573 OR
2290618

DEVICE
INTERFACE

PN 4797125 OR
2679469

EC HISTORY

09AUG84 881221

POWER GROUP LOCATION
MODELS WITH SUBSYSTEM STORAGE
FCA
SEQ YA009
PRINT 10JAN85 1364 PN 6315759
PAGE 2 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

SLIP ON CONNECTOR

SCREW TYPE TERMINAL

"PIGGY BACK" SLIP ON CONNECTOR

RESISTOR

CAPACITOR

DIODE
ANODE
ANODE

RECTIFIER

INCANDESCENT LIGHT

LIGHT EMITTING DIODE
ANODE

FUSE

CONTACTOR

RELAY POINTS
NORMALLY OPEN

NORMALLY CLOSED

6 AMP CIRCUIT BREAKER
6AMP

3 AMP CIRCUIT PROTECTOR
3AMP

THERMAL

TRANSFORMER
230V
208V
200V
COM

SCREW TYPE CAPACITOR WITH SLIP ON CONNECTORS

CONTACTOR COIL OR RELAY COIL

CONVENIENCE OUTLET
LINE A
LINE B
GND

SWITCHES
PUSH BUTTON N/O
PUSH BUTTON N/C
SINGLE POLE TOGGLES
ROTARY 2POS
LOCAL
REMOTE
ROTARY 4POS
MOMENTARY
ON
OFF

HEAT SINK WITH DIODES WHERE HEAT SINK IS PART OF ELECTRICAL CONNECTION

BUSS BAR

BLOWER
LINE A
LINE B
GND
BLWR

BLOWER WITH SENSE
BIAS
BIAS RTN
FAN SENSE
SENSE
LINE A
LINE B
GND
BLWR

MOTOR
LINE A
LINE B
GND
MTR

DC REGULATOR
REG
+ INPUT
- INPUT
+ BIAS
- TURN ON
+ REGULATOR OUTPUT
+ REGULATOR OUTPUT RETURN
+ REGULATOR OVER CURRENT SENSE
+ REGULATOR OVER VOLTAGE SENSE
+ REG INPUT UNDER VOLT SENSE

PRINTED CIRCUIT BOARD WITH CABLE CONNECTORS
CABLE NOT ALWAYS PRESENT
CABLE MAY BE PLUGGED INTO DIFFERENT SOCKETS
FWB
SFWB
FLAT WIRE BUSS NOT ALWAYS PRESENT

=FWB= = FLAT WIRE BUSS
=SFWB= = SPLIT FLAT WIRE BUSS

+ SIGN NEAR A CAPACITOR INDICATES POLARITY

NUMBERS NEXT TO SLIP ON CONNECTORS, SCREW TYPE TERMINALS, AND RELAY POINTS INDICATE POSITION.

ALPHA/NUMERIC CHARACTERS IN THE LINE INDICATE ACTUAL PIN DESIGNATIONS ON RELAYS, SWITCHES, CIRCUIT PROTECTORS, ETC.

COMPONENTS WITH DESIGNATION
1XX FOUND ON YA137,YA181 AND YB180
2XX FOUND ON YA131
3XX FOUND ON YA121
4XX FOUND ON YA111 AND YA115
5XX FOUND ON YA171
7XX FOUND ON YA161 AND YA163
8XX FOUND ON YA191
AXX FOUND ON YC200,YC300,YC400,YC500,YC900
BXX FOUND ON YC320,YC600,YC620,YC700,YC720
CXX FOUND ON YC800,YC820,YC830,YC900

EC HISTORY
09AUG84 881221

SYMBOLS USED IN POWER DIAGRAMS
MODELS WITH SUBSYSTEM STORAGE

SEQ YA009
PRINT 10JAN85 1804 PN 6315759
PAGE 3 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

YA100

+ 24V BOOTSTRAP

+ 24V DC

NOTE [1] : CP406 AUX CONTACT IS PRESENT ONLY FOR 50HZ. NOT JAPAN.

NOTE [2] FOR DUAL FRAME CONFIGURATION, THE UE SWITCH SW501 IS WIRED AS SHOWN BELOW.

NOTE [3] THIS DIODE NOT INSTALLED ON SOME EARLIER MACHINES.

NOTE [4] MAY BE REMOVED ON SOME MACHINES.

CP401 — CP406 AUX — NOTE [1] — SAFETY INTLK — J401-1 — J704-1 — J703-3 — SW501 UE (NOTE [2]) — J703-7 — J705-4 — B4-B11 — A4-B03 — CP301 AUX — A4-B02 — BD B1 — B4-B10 — J705-8 — J704-6 — J401-10 — K402

J401-8 — J704-8 — J705-18 — B4-B07 — E2D04 — PICK K402

CR704 — NOTE [3] — K404 — K401

K702-1 — K701-1 — K701-2

R504 — L502 PWR SEQ COMP LED

J704-18 — J401-7

J701-19 — J104-19 — SW105 CE DEV PWR SEQ — J104-20 — J701-20 — CR705 — J709-1 — J801-1 — K810

J703-12 — R503 — L503 POWER ON LED

J801-2 — J709-2 — J702-2 — J104-22 — SW105 CE DEV PWR SEQ — J104-21 — J702-1 — J708-1 — A5-B09 — E2B10 — START DEV SEQ TO SW 105

K810-2

J706-5 — H1-2 — HOST HOLD JUMPER — H1-5 — J706-17 — J701-17 — J104-17 — SW106 POWER SELECT REM 2A 1A LOC — J104-26 — J702-8 — K701-3 — J703-6 — SW502 POWER OFF — J703-10 — K702 — J705-3 — B4-D05 — E2J02 — HOLD MAINTENANCE POWER.

J702-4 — J104-23 — MAINT PWR ON — SW106 POWER SELECT LOC 3A 4A REM — J104-29 — J702-12 — K701 — J708-2 — A5-B08 — E2D11 — + 24VDC RTN TO START DEV SEQ.

3880 PWR. SEQ. COMPL. — K703 — SW502 POWER ON — J703-9 — J703-4

K704 — J706-1 — H1-1 — PICK — H1-6 — J706-21 — J701-18 — J104-18 — K805-1 — J703-8 — J705-7 — B4-D04 — E2605 — + 24VDC RTN TO HOLD MAINT PWR.

J703-11 — SW501 UE — J703-5 — J709-6 — J801-6 — J802-3 — JUMPER — J802-4 — J801-5 — J709-5 — J704-2 — J401-4 — + 24V RTN

B4-B06 — J705-17 — J704-9 — J401-9

A5-B10 — J708-20 — J702-10 — J104-28 — E12 — SW101 — F9 — J104-27 — J702-9 — J708-19 — A5-B11 — E2P05 — + SWITCH 101 SD1

A5-D12 — J708-12 — J702-6 — J104-25 — E12 — SW102 — F9 — J104-24 — J702-5 — J708-16 — A5-D13 — E2P04 — + SWITCH 102 SD2

B4-D02 — J705-2 — K701-4 — J705-1 — B4-D03 — E2M04 — + POWER DOWN SEQUENCE.

A5-B06 — J708-18 — SW103 DC PWR ON/OFF — J104-33 — J702-17 — J708-17 — A5-B07 — E2M07 — + RTN FROM POWER ON SW 103 .

A5-D06 — J708-15 — J702-13 — J104-30 — ON — OFF — J104-31 — J702-14 — J708-11 — A5-D07 — E2P07 — + RTN FROM POWER OFF SW 103 .

A5-D02 — J708-6 — J702-16 — J104-32 — LOC 9C — SW106 POWER SELECT — 10D — J104-34 — J702-20 — J708-9 — A5-D03 — E2M05 — + RTN FROM PWR SEL SW 106 10D .

B4-B02 — J705-13 — J704-13 — J401-12 — REM — AUX CP304 — AUX CP303 — AUX CP302 — A4-D03 — C2D13 — + BD B1 CP CHAIN.

A4-D02 — A2-D07 — C2G05 — + FROM PWR STACK TO CP CHAIN.

A2-D08 — AUX CP210 — AUX CP208 — AUX CP207 — AUX CP206 — AUX CP205 — AUX CP203 — AUX CP201 — NOTE [4] — C2D12 — + FROM BD B3 THERMAL TO SENSE — E2B07 — + FROM BD B3 THERMAL TO CTRL

A3-B08 — PS1 — A3-B09 — F6-E04 — BD A3 — BD B3 — F6-C04

J703-3 — 5 — 6 — J703-7 — EN

R504 — 8 — 9 — EN

11 — 12 — EN — SWITCH IN THE OTHER 3880

12V REG — J5-9 — A2-B12 — E2B12 — TURN ON 12V REG

6V REG — J1-7 — A2-B13 — E2G03 — TURN ON 6V REG

+ 5V ANY POWER FAILURE — A5-B03 — J708-3 — R705 — J703-2 — POWER CHECK LED

ANY POWER FAILURE PRESENT — E2P09 — A5-B02 — J708-5 — J703-1

EC HISTORY

09AUG84 881221 + 24V SCHEMATIC 22 CARD SD

SEQ YA009
PRINT 10JAN85 1603 PN 6315759 PAGE 4 OF 32

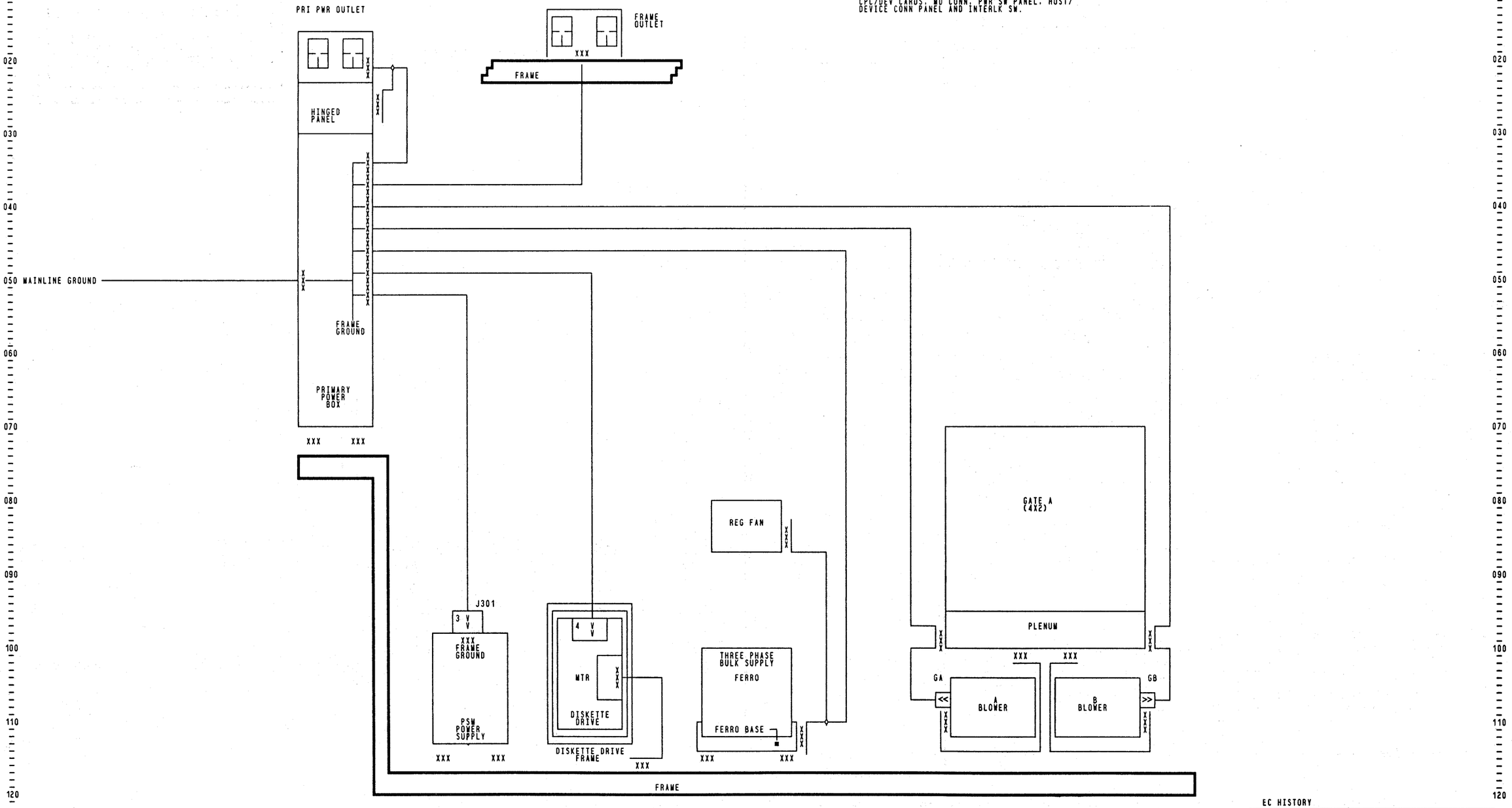
MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

YA105

NOTES:

1. XXX DENOTES EXTERNAL STAR WASHER.
2. THE FOLLOWING ASM'S DO NOT REQUIRE SAFETY GROUNDING: BULK, CP PANEL, REGULATORS, OP PANEL, CPC/DEV CARDS, MD CONN, PWR SW PANEL, HOST/ DEVICE CONN PANEL AND INTERLK SW.



EC HISTORY

09AUG84 881221

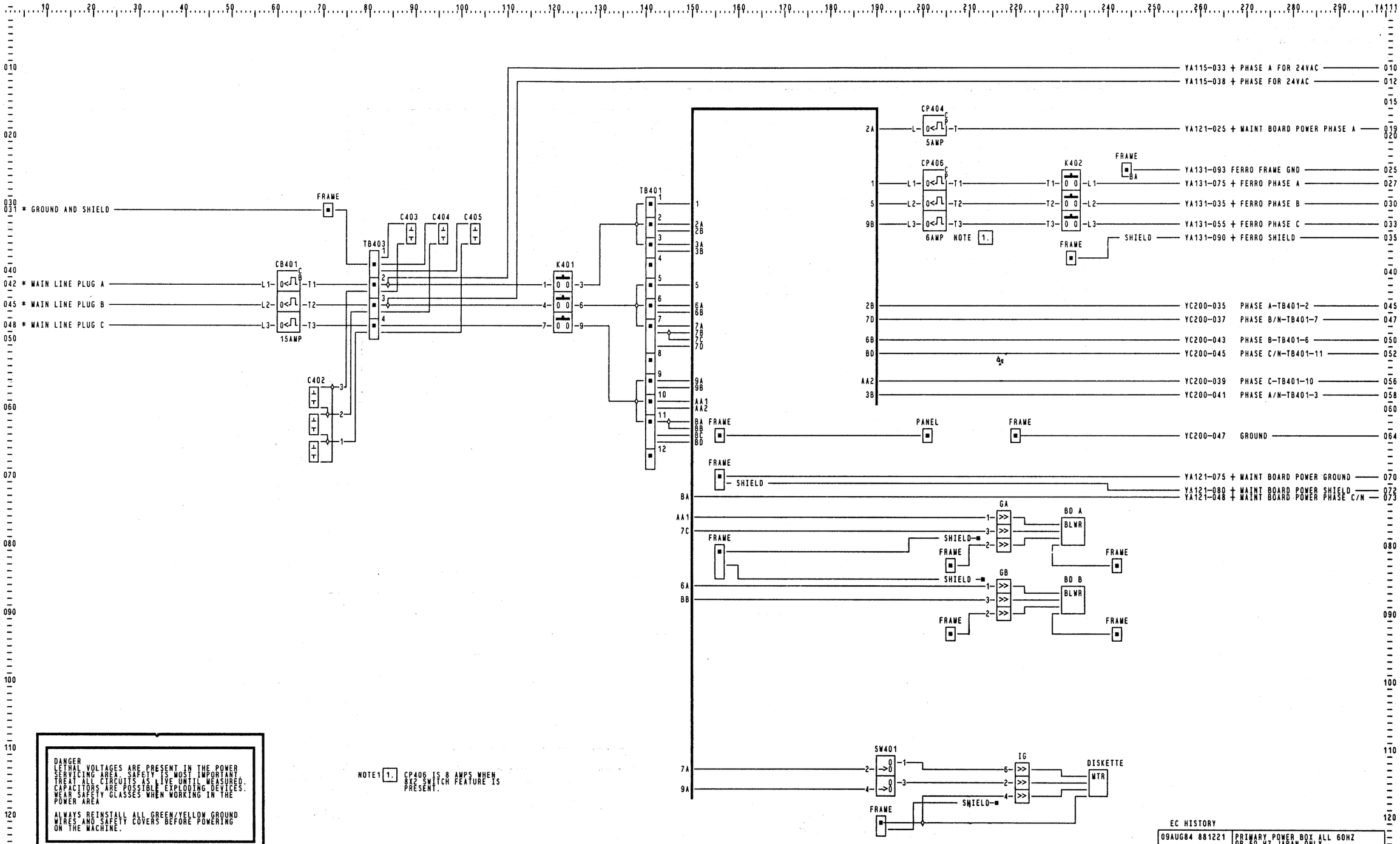
BLOCK DIAGRAM
GROUNDING SCHEMATIC

SEQ YA009
PRINT 10JAN85 0040 PN 6315759
PAGE 5 OF 32

MACH HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

YA110



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

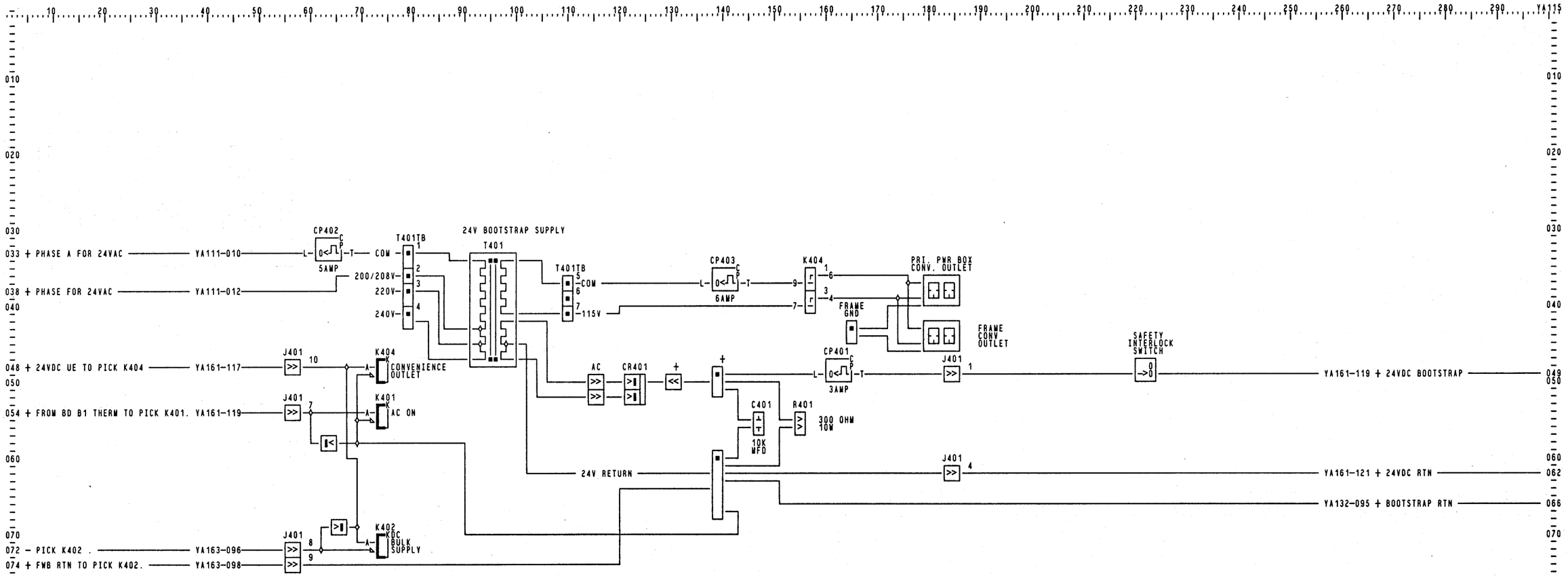
NOTE1 1. CP406 IS 8 AMPS WHEN 8X2 SWITCH FEATURE IS PRESENT.

EC HISTORY

09AUG84 881221	PRIMARY POWER BOX ALL 60HZ OR 50 HZ JAPAN ONLY MODELS WITH SUBSYSTEM STORAGE SEQ YA009 PRINT 10JAN85 1110 PN 6315759 PAGE 6 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP
YA111

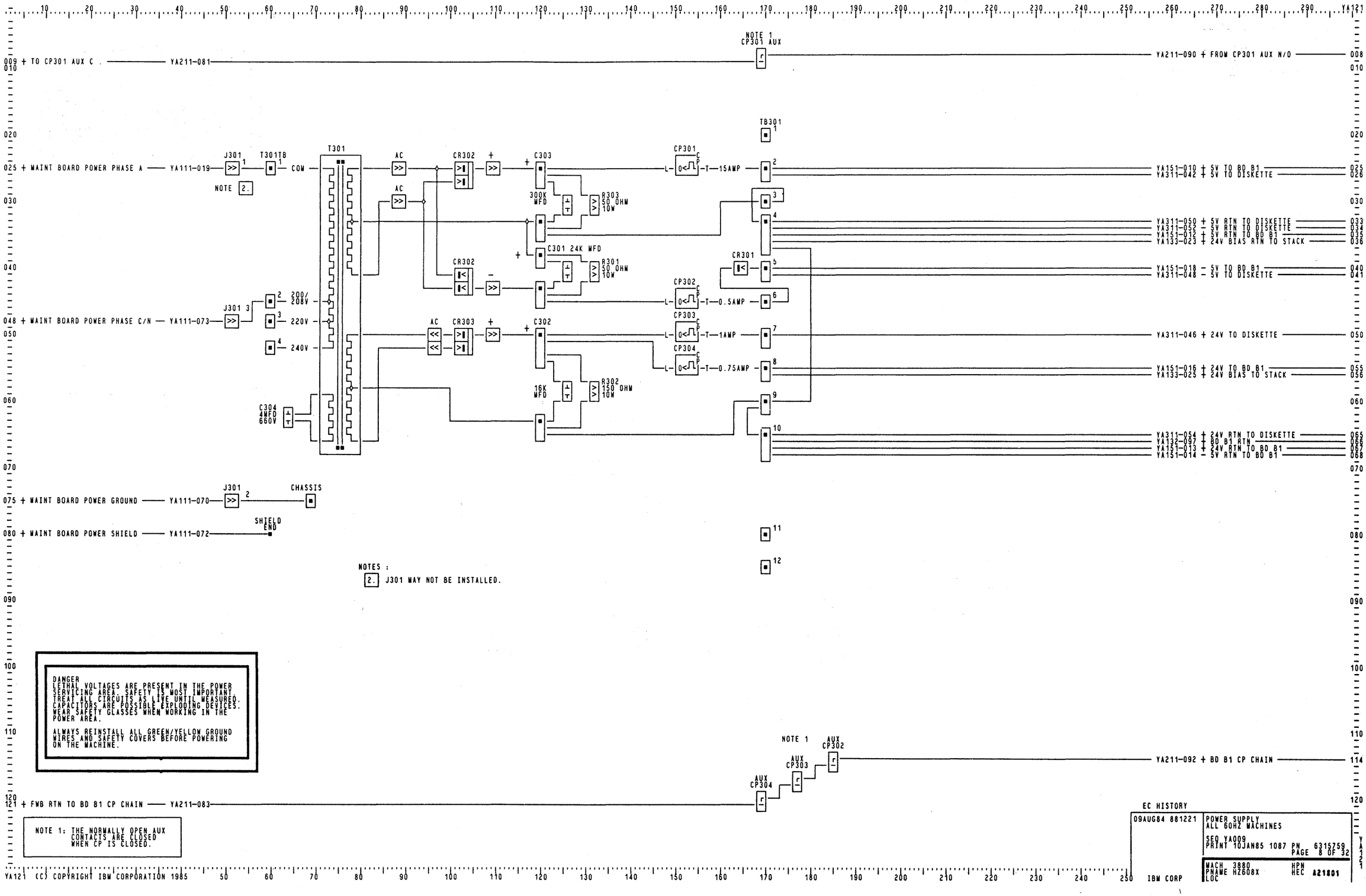


DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

09AUG84 881221	PRIMARY POWER BOX CONTROLS ALL 60HZ MACHINES OR 50HZ JAPAN - FCA SEQ YA003 PRINT 10JAN85 1582 PN 6315759 PAGE 7 OF 32
IBM CORP	MACH 3880 HPN PNAME HZ608X HEC A21801 LOC


009 + TO CP301 AUX C
YA211-081
NOTE 1
CP301 AUX
YA211-090 + FROM CP301 AUX N/O
025 + MAINT BOARD POWER PHASE A
YA111-019
J301
T301TB
COM
NOTE 2.
T301
AC
CR302
C303
300K MFD
R303 50 OHM 10W
C301 24K MFD
R301 50 OHM 10W
CP301
15AMP
TB301
YA151-010 + 5V TO BD B1
YA311-042 + 5V TO DISKETTE
YA311-050 + 5V RTN TO DISKETTE
YA311-052 - 5V RTN TO DISKETTE
YA151-012 + 5V RTN TO BD B1
YA133-023 + 24V BIAS RTN TO STACK
CR301
YA151-018 - 5V TO BD B1
YA311-048 - 5V TO DISKETTE
048 + MAINT BOARD POWER PHASE C/N
YA111-073
J301 3
200/208V
220V
240V
CR303
C302
CP302
0.5AMP
CP303
1AMP
CP304
0.75AMP
YA311-046 + 24V TO DISKETTE
YA151-016 + 24V TO BD B1
YA133-025 + 24V BIAS TO STACK
C304 4MFD 660V
16K MFD
R302 150 OHM 10W
YA311-054 + 24V RTN TO DISKETTE
YA312-057 + BD B1 RTN
YA151-013 + 24V RTN TO BD B1
YA151-014 - 5V RTN TO BD B1
075 + MAINT BOARD POWER GROUND
YA111-070
J301
CHASSIS
080 + MAINT BOARD POWER SHIELD
YA111-072
SHIELD END
11
12
NOTES :
2. J301 MAY NOT BE INSTALLED.
DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.
ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.
NOTE 1
AUX CP302
AUX CP303
AUX CP304
YA211-092 + BD B1 CP CHAIN
121 + FWB RTN TO BD B1 CP CHAIN
YA211-083
NOTE 1: THE NORMALLY OPEN AUX CONTACTS ARE CLOSED WHEN CP IS CLOSED.
EC HISTORY
09AUG84 881221
POWER SUPPLY
ALL 60HZ MACHINES
SEQ YA009
PRINT 10JAN85 1087 PN 6315759
PAGE 8 OF 32
MACH 3880
PNAME HZ608X
LOC
HPN
HEC A21801
IBM CORP
YA121 (C) COPYRIGHT IBM CORPORATION 1985
YA121

60HZ DELTA JUMPERS FOR TB201	240V	220V	200/208V
	-2 TO -1 -6 TO -5 -10 TO -9	-2 TO -3 -6 TO -7 -10 TO -11	-2 TO -4 -6 TO -8 -10 TO -12

ONLY ONE SET OF JUMPERS MUST BE INSTALLED

TB201

035 + FERRO PHASE B — YA111-030

055 + FERRO PHASE C — YA111-033

NOTE:
SOME EARLY MACHINES MAY HAVE WIRE 16 ON TB201-10.

075 + FERRO PHASE A — YA111-027

SHIELD END

090 + FERRO SHIELD — YA111-035

FRAME

093 FERRO FRAME GND — YA111-025

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELL GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

125 + FWB RTN TO PWR STACK CP CHAIN YA211-034

T201

C201 5MFD 660V

T202

C202 5MFD 660V

T203

C203 5MFD 660V

PS

FRAME GND

BLWR

YA132-047 BULK AC 1
YA132-051 BULK AC 2
YA132-055 BULK AC 3
YA132-059 BULK AC 4
YA132-063 BULK AC 5
YA132-067 BULK AC 6

YA132-033 CNTR TAP A
YA132-010 CNTR TAP A1
YA132-037 CNTR TAP B
YA132-012 CNTR TAP B1
YA132-041 CNTR TAP C
YA132-077 CNTR TAP C1

YC800-040 PHASE B TO AUX SD SUPPLY
YC800-042 PHASE A TO AUX SD SUPPLY

FRAME
FRAME

YC800-044 GROUND
YC800-048 SHIELD

YA132-091 - 5V BULK RTN

AC CR207
AC CR208
AC CR209

54K MFD 10V
C204
50 OHM 10W

YA133-097 - 5V BULK RTN MULTI
YA137-030 - 5V RTN TO BD B4.
YA137-046 - 5V RTN TO BD B3.

-5V CP205
1.5 AMP
YA137-028 - 5V TO SD1 SW

CP207 MAY NOT BE REMOVED ON SOME MACHINES

-5V CP207
2.5 AMP
YA133-091 - 5V BULD FOR MULTI

-5V CP210
1.5 AMP
YA137-044 - 5V TO SD2 SW

YA211-017 + FROM PWR STACK CP CHAIN

AUX CP210
AUX CP208
AUX CP207
AUX CP206
AUX CP205
AUX CP203
AUX CP201

AUX CPS MAY NOT BE REMOVED ON SOME MACHINES

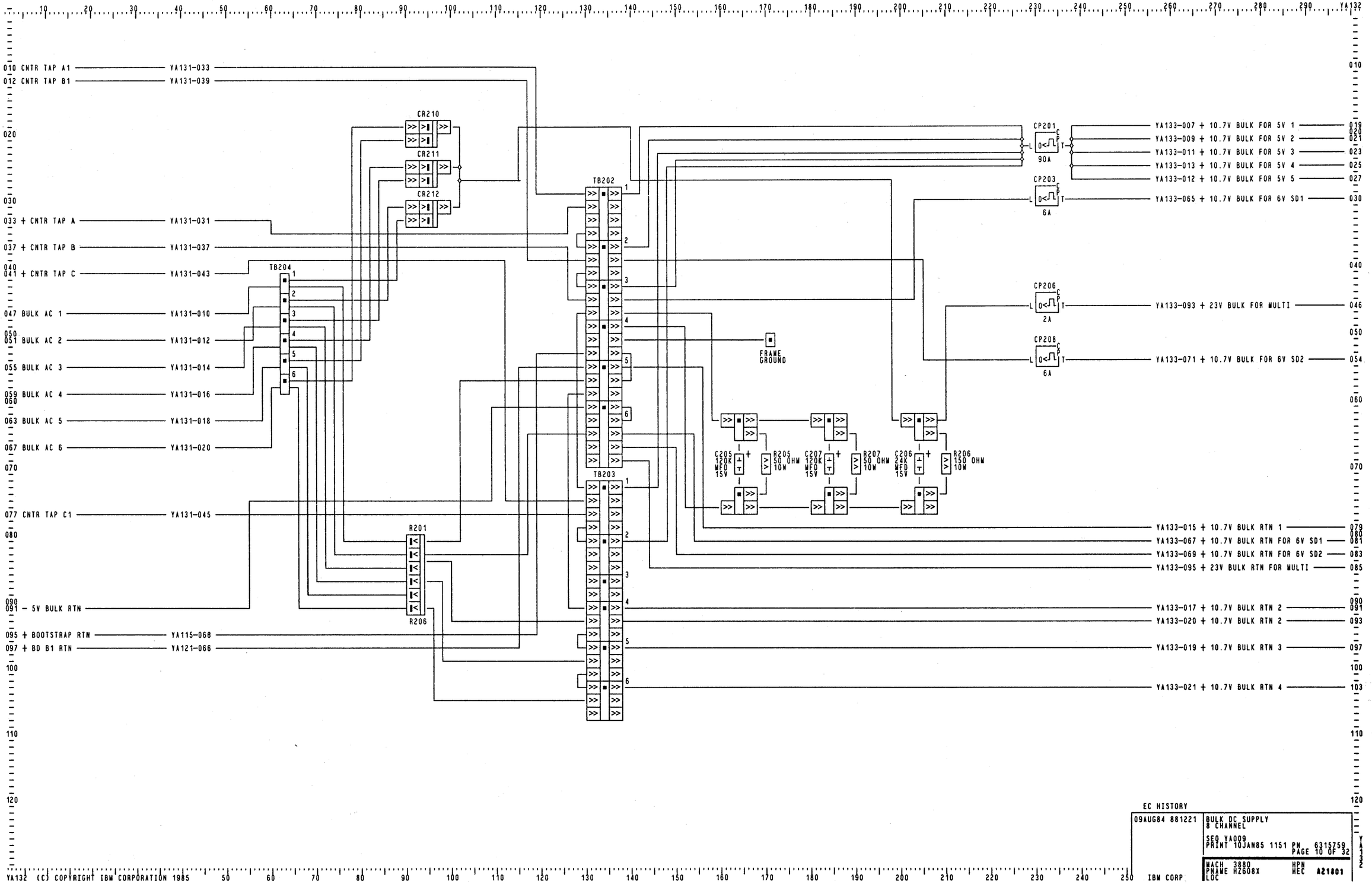
EC HISTORY
09AUG84 881221

DC BULK SUPPLIES - NEGATIVE
ALL 60HZ MACHINES
MODELS WITH SUBSYSTEM STORAGE
SEQ YA009
PRINT 10JAN85 1077 PN 6315759
PAGE 9 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

YA131



EC HISTORY

09AUG84 881221

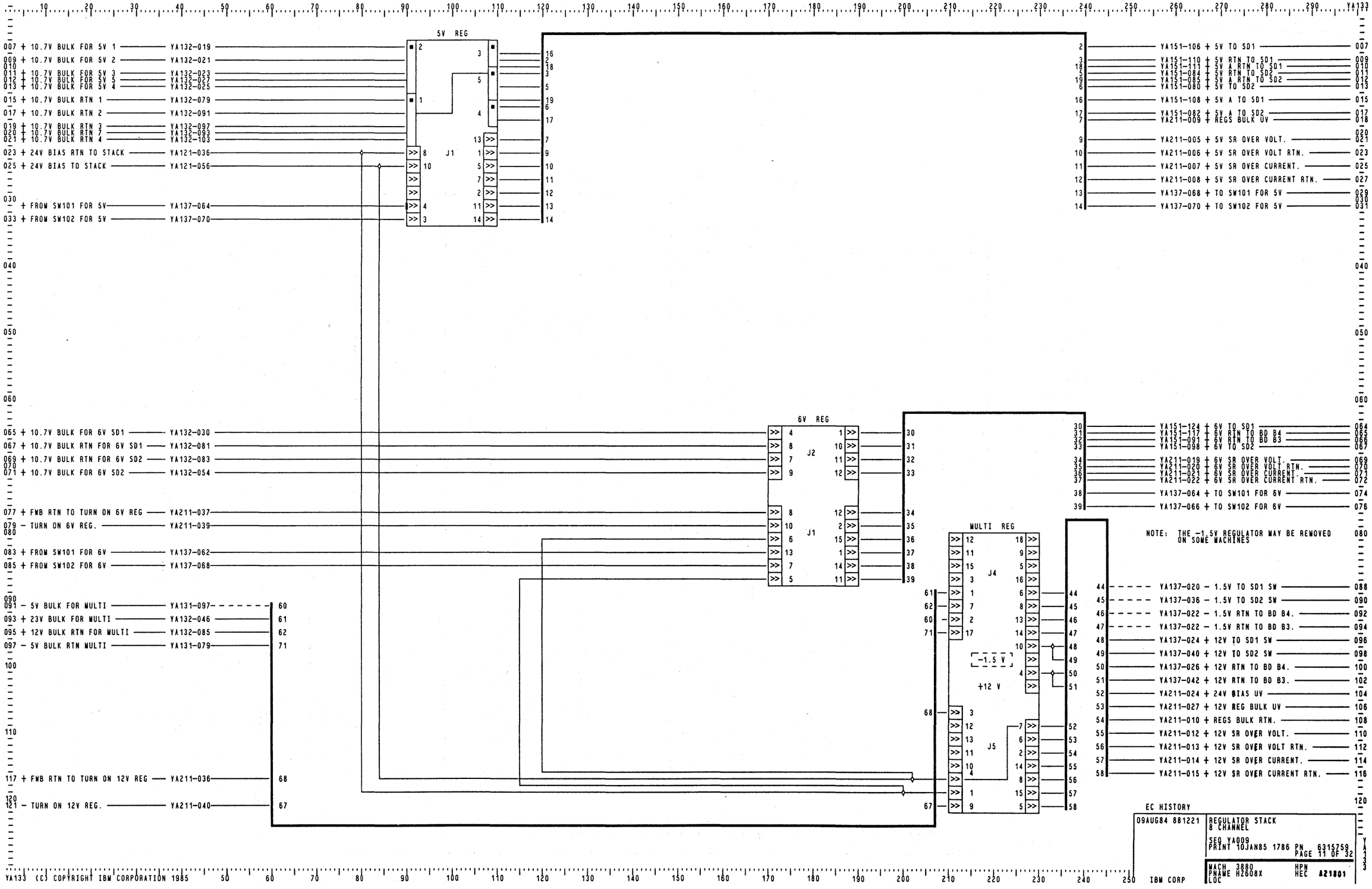
BULK DC SUPPLY
8 CHANNEL

SEQ YA009
PRINT 10JAN85 1151 PN 6315759
PAGE 10 OF 32

MACH 3880 HPN
PNME HZ608X MEC A21801
LOC

IBM CORP

YA132


5V REG
J1
6V REG
J2
J1
MULTI REG
J4
J5
-1.5 V
+12 V
007 + 10.7V BULK FOR 5V 1 — YA132-019
009 + 10.7V BULK FOR 5V 2 — YA132-021
011 + 10.7V BULK FOR 5V 3 — YA132-023
012 + 10.7V BULK FOR 5V 5 — YA132-027
013 + 10.7V BULK FOR 5V 4 — YA132-025
015 + 10.7V BULK RTN 1 — YA132-079
017 + 10.7V BULK RTN 2 — YA132-091
019 + 10.7V BULK RTN 3 — YA132-097
020 + 10.7V BULK RTN 7 — YA132-093
021 + 10.7V BULK RTN 4 — YA132-103
023 + 24V BIAS RTN TO STACK — YA121-036
025 + 24V BIAS TO STACK — YA121-056
+ FROM SW101 FOR 5V — YA137-064
033 + FROM SW102 FOR 5V — YA137-070
065 + 10.7V BULK FOR 6V SD1 — YA132-030
067 + 10.7V BULK RTN FOR 6V SD1 — YA132-081
069 + 10.7V BULK RTN FOR 6V SD2 — YA132-083
071 + 10.7V BULK FOR 6V SD2 — YA132-054
077 + FWB RTN TO TURN ON 6V REG — YA211-037
079 - TURN ON 6V REG. — YA211-039
083 + FROM SW101 FOR 6V — YA137-062
085 + FROM SW102 FOR 6V — YA137-068
091 - 5V BULK FOR MULTI — YA131-097
093 + 23V BULK FOR MULTI — YA132-046
095 + 12V BULK RTN FOR MULTI — YA132-085
097 - 5V BULK RTN MULTI — YA131-079
117 + FWB RTN TO TURN ON 12V REG — YA211-036
121 - TURN ON 12V REG. — YA211-040
YA151-106 + 5V TO SD1
YA151-110 + 5V RTN TO SD1
YA151-111 + 5V A RTN TO SD1
YA151-084 + 5V RTN TO SD2
YA151-085 + 5V A RTN TO SD2
YA151-080 + 5V TO SD2
YA151-108 + 5V A TO SD1
YA151-082 + 5V A TO SD2
YA211-009 + REGS BULK UV
YA211-005 + 5V SR OVER VOLT.
YA211-006 + 5V SR OVER VOLT RTN.
YA211-007 + 5V SR OVER CURRENT.
YA211-008 + 5V SR OVER CURRENT RTN.
YA137-068 + TO SW101 FOR 5V
YA137-070 + TO SW102 FOR 5V
YA151-124 + 6V TO SD1
YA151-117 + 6V RTN TO BD B4
YA151-091 + 6V RTN TO BD B3
YA151-098 + 6V TO SD2
YA211-019 + 6V SR OVER VOLT.
YA211-020 + 6V SR OVER VOLT RTN.
YA211-021 + 6V SR OVER CURRENT.
YA211-022 + 6V SR OVER CURRENT RTN.
YA137-064 + TO SW101 FOR 6V
YA137-066 + TO SW102 FOR 6V
NOTE: THE -1.5V REGULATOR MAY BE REMOVED ON SOME MACHINES
YA137-020 - 1.5V TO SD1 SW
YA137-036 - 1.5V TO SD2 SW
YA137-022 - 1.5V RTN TO BD B4.
YA137-022 - 1.5V RTN TO BD B3.
YA137-024 + 12V TO SD1 SW
YA137-040 + 12V TO SD2 SW
YA137-026 + 12V RTN TO BD B4.
YA137-042 + 12V RTN TO BD B3.
YA211-024 + 24V BIAS UV
YA211-027 + 12V REG BULK UV
YA211-010 + REGS BULK RTN.
YA211-012 + 12V SR OVER VOLT.
YA211-013 + 12V SR OVER VOLT RTN.
YA211-014 + 12V SR OVER CURRENT.
YA211-015 + 12V SR OVER CURRENT RTN.
EC HISTORY
09AUG84 881221
REGULATOR STACK
8 CHANNEL
SEQ YA009
PRINT 10JAN85 1786 PN 6315759
PAGE 11 OF 32
MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC
IBM CORP
YA133 (C) COPYRIGHT IBM CORPORATION 1985

NOTE: MAY BE REMOVED ON SOME MACHINES.

020 - 1.5V TO SD1 SW — YA133-088 — J101 1 — 11
022 - 1.5V RTN TO BD B4 — YA133-092 — J101 2 — 1
024 + 12V TO SD1 SW — YA133-096 — J101 3 — 12
026 + 12V RTN TO BD B4 — YA133-100 — J101 4 — 2
028 - 5V TO SD1 SW — YA131-091 — J101 5 — 13
030 - 5V RTN TO BD B4 — YA131-080 — J101 6 — 3

036 - 1.5V TO SD2 SW — YA133-090 — J102 1 — 14
038 - 1.5V RTN TO BD B3 — YA133-094 — J102 2 — 4
040 + 12V TO SD2 SW — YA133-098 — J102 3 — 15
042 + 12V RTN TO BD B3 — YA133-102 — J102 4 — 5
044 - 5V TO SD2 SW — YA131-103 — J102 5 — 16
046 - 5V RTN TO BD B3 — YA131-081 — J102 6 — 6

064 + TO SW101 FOR 6V — YA133-074 — J103 1 — 19
066 + TO SW102 FOR 6V — YA133-076 — J103 2 — 20
068 + TO SW101 FOR 5V — YA133-029 — J103 3 — 21
070 + TO SW102 FOR 5V — YA133-031 — J103 4 — 22
072 + FWB RTN TO SW 101 SENSE. — YA163-064 — J103 5
074 + FWB RTN TO SW 102 SENSE. — YA163-062 — J103 6

J104 28 — 23
J104 25 — 24

SD1 SWITCH 101

13	A02	B01	31	-5V	
21	A06	B07	32	+5V +3V	
11	A10	B11	33	-1.5V	
12	C04	D06	34	+12V	
	C10	D09			
19	E08	F06	36	+6V	
23	E12	F09	37	SENSE	

R101 R102

SD2 SWITCH 102

16	A02	B01	41		
22	A06	B07	42		
14	A10	B11	43		
15	C04	D06	44		
	C10	D09			
20	E08	F06	46		
24	E12	F09	47		

R103 R104

33 — J101 7 — YA151-125 - 1.5V FROM SD1 SW TO BD B4 — 020
1 — J101 8 — YA151-118 - 1.5V RTN TO BD B4 — 022
34 — J101 9 — YA151-120 + 12V FROM SD1 SW TO BD B4 — 024
2 — J101 10 — YA151-113 + 12V RTN TO BD B4 — 026
31 — J101 11 — YA151-121 - 5V FROM SD1 SW TO BD B4 — 028
3 — J101 12 — YA151-114 - 5V RTN TO BD B4 — 030

43 — J102 7 — YA151-099 - 1.5V FROM SD2 SW TO BD B3 — 036
4 — J102 8 — YA151-092 - 1.5V RTN TO BD B3 — 038
44 — J102 9 — YA151-094 + 12V FROM SD2 SW TO BD B3 — 040
5 — J102 10 — YA151-087 + 12V RTN TO BD B3 — 042
41 — J102 11 — YA151-095 - 5V FROM SD2 SW TO BD B3 — 044
6 — J102 12 — YA151-088 - 5V RTN TO BD B3 — 046

36 — J103 9
32 — J103 10 — YA133-083 + FROM SW101 FOR 6V — 062
J103 11 — YA133-031 + FROM SW101 FOR 5V — 064
J103 13
46 — J103 14
42 — J103 15 — YA133-085 + FROM SW102 FOR 6V — 068
YA133-033 + FROM SW102 FOR 5V — 070
J104 24
47 — J104 27 — YA163-012 + FROM SWITCH 102 SENSE SD2 — 074
37 — YA163-014 + FROM SWITCH 101 SENSE SD1 — 076

STACK POWER THERMAL

118 + FWB RTN TO POWER THERMAL — YA211-070 — YA211-042 + FROM POWER THERMAL — 118

EC HISTORY

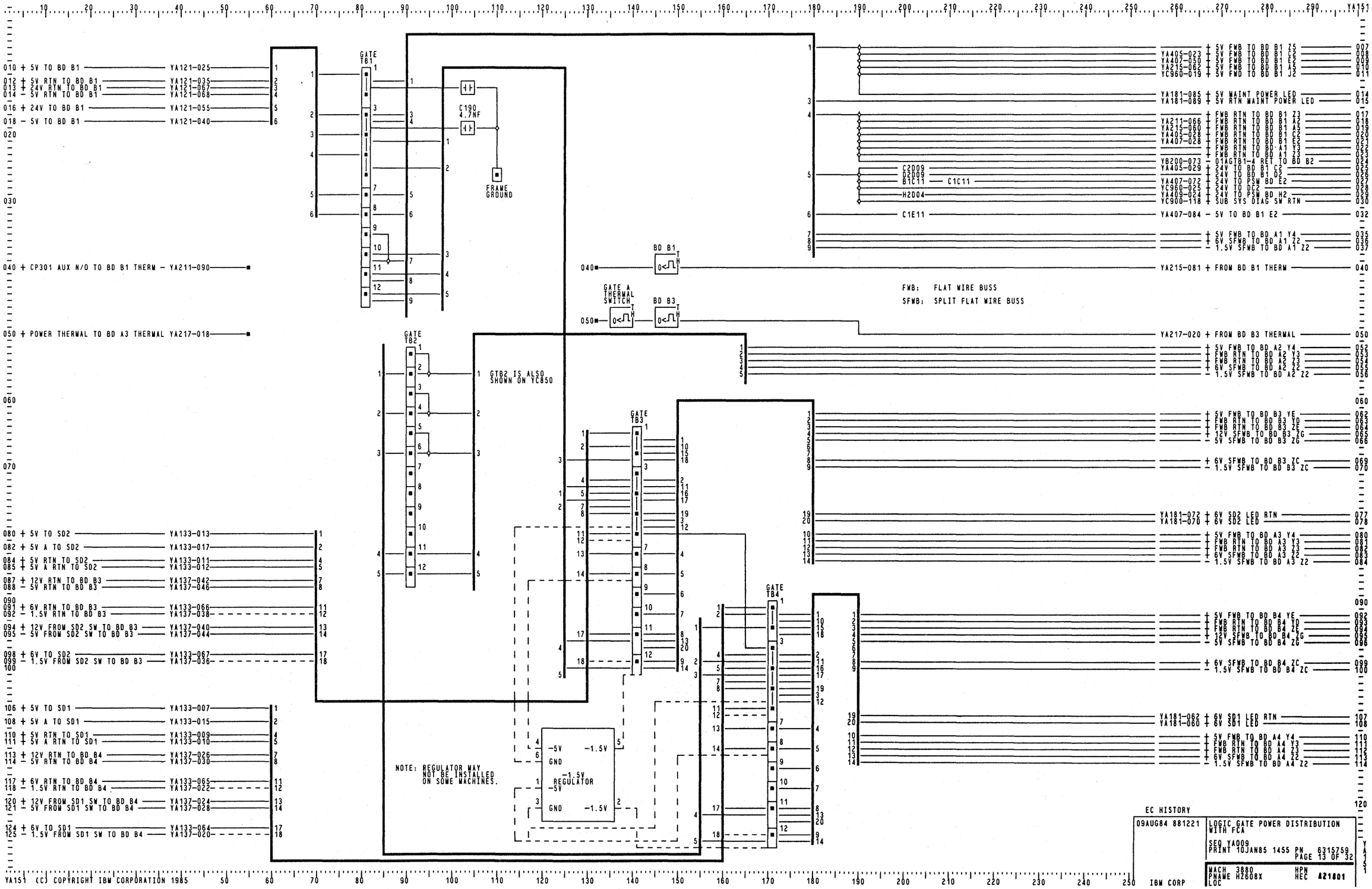
09AUG84 881221

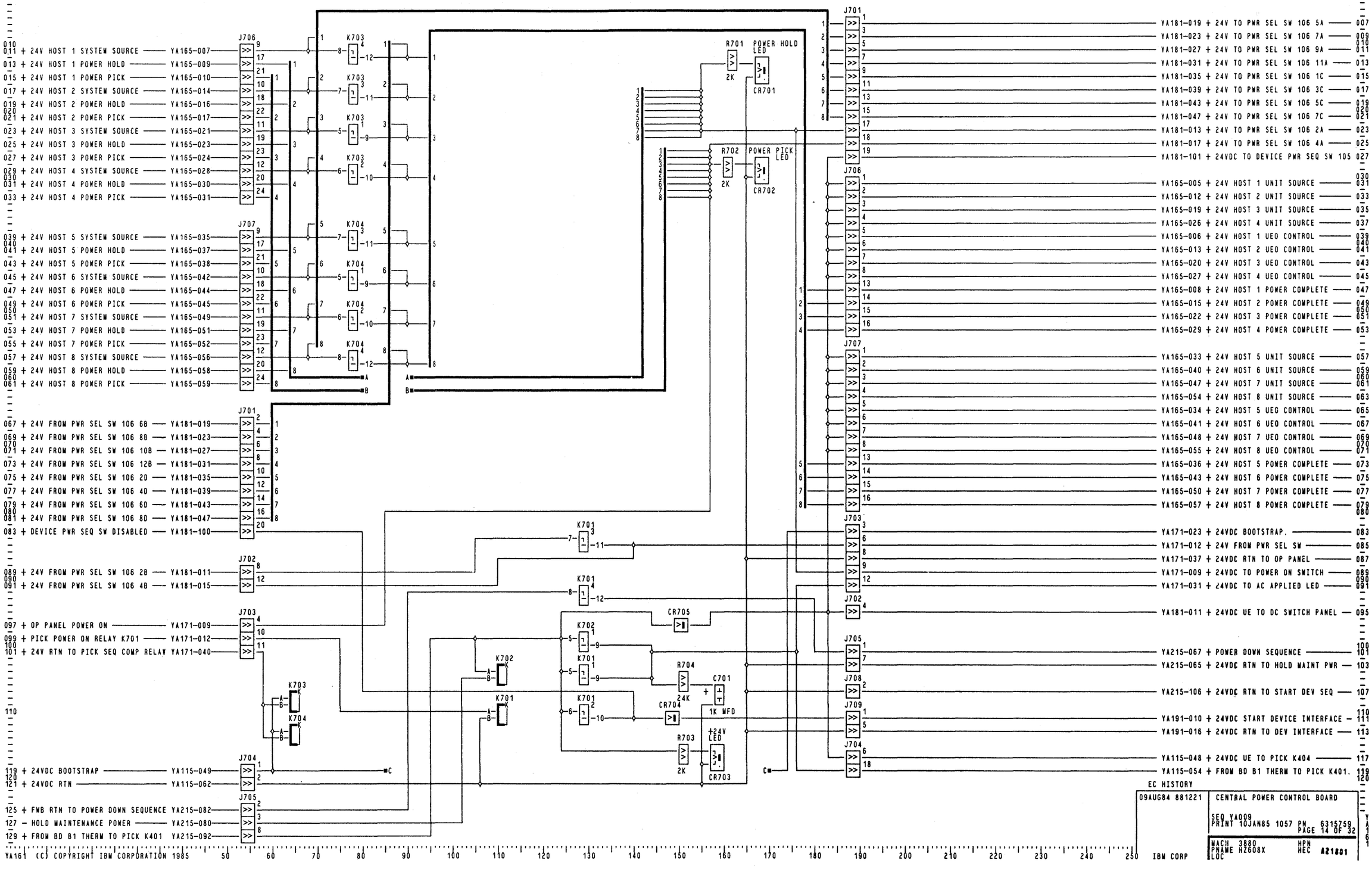
DC SWITCH PANEL

SEQ YA009
PRINT 10JAN85 1784 PN 6315759
PAGE 12 OF 32

MACH 3880 HPN
PNAME H2608X HEC A21801
LOC

IBM CORP


010 + 5V TO BD B1 — YA121-025
012 + 5V RTN TO BD B1 — YA121-035
013 + 24V RTN TO BD B1 — YA121-067
014 - 5V RTN TO BD B1 — YA121-068
016 + 24V TO BD B1 — YA121-055
018 - 5V TO BD B1 — YA121-040
040 + CP301 AUX N/O TO BD B1 THERM - YA211-090
050 + POWER THERMAL TO BD A3 THERMAL YA217-018
080 + 5V TO SD2 — YA133-013
082 + 5V A TO SD2 — YA133-017
084 + 5V RTN TO SD2 — YA133-011
085 + 5V A RTN TO SD2 — YA133-012
087 + 12V RTN TO BD B3 — YA137-042
088 - 5V RTN TO BD B3 — YA137-046
091 + 6V RTN TO BD B3 — YA133-066
092 - 1.5V RTN TO BD B3 — YA137-038
094 + 12V FROM SD2 SW TO BD B3 — YA137-040
095 - 5V FROM SD2 SW TO BD B3 — YA137-044
098 + 6V TO SD2 — YA133-067
099 - 1.5V FROM SD2 SW TO BD B3 — YA137-036
106 + 5V TO SD1 — YA133-007
108 + 5V A TO SD1 — YA133-015
110 + 5V RTN TO SD1 — YA133-009
111 + 5V A RTN TO SD1 — YA133-010
113 + 12V RTN TO BD B4 — YA137-026
114 - 5V RTN TO BD B4 — YA137-030
117 + 6V RTN TO BD B4 — YA133-065
118 - 1.5V RTN TO BD B4 — YA137-022
120 + 12V FROM SD1 SW TO BD B4 — YA137-024
121 - 5V FROM SD1 SW TO BD B4 — YA137-028
124 + 6V TO SD1 — YA133-064
125 - 1.5V FROM SD1 SW TO BD B4 — YA137-020
GATE TB1
C190 4.7NF
FRAME GROUND
GATE TB2
GTB2 IS ALSO SHOWN ON YC850
GATE TB3
GATE TB4
BD B1
BD B3
GATE A THERMAL SWITCH
-5V -1.5V GND -1.5V REGULATOR -5V GND -1.5V
NOTE: REGULATOR MAY NOT BE INSTALLED ON SOME MACHINES.
YA405-023 + 5V FWB TO BD B1 Z5 — 007
YA407-050 + 5V FWB TO BD B1 E2 — 009
YA215-062 + 5V FWB TO BD B1 A5 — 010
YC960-019 + 5V FWD TO BD B1 J2 — 011
YA181-085 + 5V MAINT POWER LED — 014
YA181-089 + 5V RTN MAINT POWER LED — 015
YA211-066 + FWB RTN TO BD B1 Z3 — 017
YA215-060 + FWB RTN TO BD B1 A5 — 019
YA405-028 + FWB RTN TO BD B1 C2 — 020
YA407-028 + FWB RTN TO BD B1 E2 — 021
+ FWB RTN TO BD A1 Y3 — 022
+ FWB RTN TO BD A1 Z3 — 023
YB200-073 - 01AGTB1-4 RET TO BD B2 — 024
C2D09 YA405-029 + 24V TO BD B1 C2 — 025
D2D09 + 24V TO BD B4 D2 — 026
B1C11 C1C11 YA407-072 + 24V TO PSW BD E2 — 027
YC960-025 + 24V TO DC2 — 028
H2D04 YA409-024 + 24V TO PSW BD H2 — 029
YC900-118 + SUB SYS DIAG SW RTN — 030
C1E11 YA407-084 - 5V TO BD B1 E2 — 032
+ 5V FWB TO BD A1 Y4 — 035
+ 6V SFWB TO BD A1 Z2 — 036
- 1.5V SFWB TO BD A1 Z2 — 037
YA215-081 + FROM BD B1 THERM — 040
FWB: FLAT WIRE BUSS
SFWB: SPLIT FLAT WIRE BUSS
YA217-020 + FROM BD B3 THERMAL — 050
+ 5V FWB TO BD A2 Y4 — 052
+ FWB RTN TO BD A2 Y3 — 053
+ FWB RTN TO BD A2 Z3 — 054
+ 6V SFWB TO BD A2 Z2 — 055
- 1.5V SFWB TO BD A2 Z2 — 056
+ 5V FWB TO BD B3 YE — 062
+ FWB RTN TO BD B3 YD — 063
+ FWB RTN TO BD B3 ZE — 064
+ 12V SFWB TO BD B3 ZG — 065
- 5V SFWB TO BD B3 ZG — 066
+ 6V SFWB TO BD B3 ZC — 069
- 1.5V SFWB TO BD B3 ZC — 070
YA181-072 + 6V SD2 LED RTN — 077
YA181-070 + 6V SD2 LED — 078
+ 5V FWB TO BD A3 Y4 — 080
+ FWB RTN TO BD A3 Y3 — 081
+ FWB RTN TO BD A3 Z3 — 082
+ 6V SFWB TO BD A3 Z2 — 083
- 1.5V SFWB TO BD A3 Z2 — 084
+ 5V FWB TO BD B4 YE — 092
+ FWB RTN TO BD B4 YD — 093
+ FWB RTN TO BD B4 ZE — 094
+ 12V SFWB TO BD B4 ZG — 095
- 5V SFWB TO BD B4 ZG — 096
+ 6V SFWB TO BD B4 ZC — 099
- 1.5V SFWB TO BD B4 ZC — 100
YA181-062 + 6V SD1 LED RTN — 107
YA181-060 + 6V SD1 LED — 108
+ 5V FWB TO BD A4 Y4 — 110
+ FWB RTN TO BD A4 Y3 — 111
+ FWB RTN TO BD A4 Z3 — 112
+ 6V SFWB TO BD A4 Z2 — 113
- 1.5V SFWB TO BD A4 Z2 — 114
EC HISTORY
09AUG84 881221 LOGIC GATE POWER DISTRIBUTION WITH FCA
SEQ YA009
PRINT 10JAN85 1455 PN 6315759
PAGE 13 OF 32
MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC
YA151 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP
YA151


+ 24V HOST 1 SYSTEM SOURCE — YA165-007
+ 24V HOST 1 POWER HOLD — YA165-009
+ 24V HOST 1 POWER PICK — YA165-010
+ 24V HOST 2 SYSTEM SOURCE — YA165-014
+ 24V HOST 2 POWER HOLD — YA165-016
+ 24V HOST 2 POWER PICK — YA165-017
+ 24V HOST 3 SYSTEM SOURCE — YA165-021
+ 24V HOST 3 POWER HOLD — YA165-023
+ 24V HOST 3 POWER PICK — YA165-024
+ 24V HOST 4 SYSTEM SOURCE — YA165-028
+ 24V HOST 4 POWER HOLD — YA165-030
+ 24V HOST 4 POWER PICK — YA165-031
+ 24V HOST 5 SYSTEM SOURCE — YA165-035
+ 24V HOST 5 POWER HOLD — YA165-037
+ 24V HOST 5 POWER PICK — YA165-038
+ 24V HOST 6 SYSTEM SOURCE — YA165-042
+ 24V HOST 6 POWER HOLD — YA165-044
+ 24V HOST 6 POWER PICK — YA165-045
+ 24V HOST 7 SYSTEM SOURCE — YA165-049
+ 24V HOST 7 POWER HOLD — YA165-051
+ 24V HOST 7 POWER PICK — YA165-052
+ 24V HOST 8 SYSTEM SOURCE — YA165-056
+ 24V HOST 8 POWER HOLD — YA165-058
+ 24V HOST 8 POWER PICK — YA165-059
+ 24V FROM PWR SEL SW 106 6B — YA181-019
+ 24V FROM PWR SEL SW 106 8B — YA181-023
+ 24V FROM PWR SEL SW 106 10B — YA181-027
+ 24V FROM PWR SEL SW 106 12B — YA181-031
+ 24V FROM PWR SEL SW 106 2D — YA181-035
+ 24V FROM PWR SEL SW 106 4D — YA181-039
+ 24V FROM PWR SEL SW 106 6D — YA181-043
+ 24V FROM PWR SEL SW 106 8D — YA181-047
+ DEVICE PWR SEQ SW DISABLED — YA181-100
+ 24V FROM PWR SEL SW 106 2B — YA181-011
+ 24V FROM PWR SEL SW 106 4B — YA181-015
+ OP PANEL POWER ON — YA171-009
+ PICK POWER ON RELAY K701 — YA171-012
+ 24V RTN TO PICK SEQ COMP RELAY YA171-040
+ 24VDC BOOTSTRAP — YA115-049
+ 24VDC RTN — YA115-062
+ FWB RTN TO POWER DOWN SEQUENCE YA215-082
– HOLD MAINTENANCE POWER — YA215-080
+ FROM BD B1 THERM TO PICK K401 YA215-092
J706
J707
J701
J702
J703
J704
J705
K703
K704
K701
K702
R701 POWER HOLD LED
2K
CR701
R702 POWER PICK LED
CR702
CR705
R704
24K
C701
1K MFD
CR704
R703
+24V LED
CR703
YA181-019 + 24V TO PWR SEL SW 106 5A — 007
YA181-023 + 24V TO PWR SEL SW 106 7A — 009
YA181-027 + 24V TO PWR SEL SW 106 9A — 011
YA181-031 + 24V TO PWR SEL SW 106 11A — 013
YA181-035 + 24V TO PWR SEL SW 106 1C — 015
YA181-039 + 24V TO PWR SEL SW 106 3C — 017
YA181-043 + 24V TO PWR SEL SW 106 5C — 019
YA181-047 + 24V TO PWR SEL SW 106 7C — 021
YA181-013 + 24V TO PWR SEL SW 106 2A — 023
YA181-017 + 24V TO PWR SEL SW 106 4A — 025
YA181-101 + 24VDC TO DEVICE PWR SEQ SW 105 027
YA165-005 + 24V HOST 1 UNIT SOURCE — 031
YA165-012 + 24V HOST 2 UNIT SOURCE — 033
YA165-019 + 24V HOST 3 UNIT SOURCE — 035
YA165-026 + 24V HOST 4 UNIT SOURCE — 037
YA165-006 + 24V HOST 1 UEO CONTROL — 039
YA165-013 + 24V HOST 2 UEO CONTROL — 041
YA165-020 + 24V HOST 3 UEO CONTROL — 043
YA165-027 + 24V HOST 4 UEO CONTROL — 045
YA165-008 + 24V HOST 1 POWER COMPLETE — 047
YA165-015 + 24V HOST 2 POWER COMPLETE — 049
YA165-022 + 24V HOST 3 POWER COMPLETE — 051
YA165-029 + 24V HOST 4 POWER COMPLETE — 053
YA165-033 + 24V HOST 5 UNIT SOURCE — 057
YA165-040 + 24V HOST 6 UNIT SOURCE — 059
YA165-047 + 24V HOST 7 UNIT SOURCE — 061
YA165-054 + 24V HOST 8 UNIT SOURCE — 063
YA165-034 + 24V HOST 5 UEO CONTROL — 065
YA165-041 + 24V HOST 6 UEO CONTROL — 067
YA165-048 + 24V HOST 7 UEO CONTROL — 069
YA165-055 + 24V HOST 8 UEO CONTROL — 071
YA165-036 + 24V HOST 5 POWER COMPLETE — 073
YA165-043 + 24V HOST 6 POWER COMPLETE — 075
YA165-050 + 24V HOST 7 POWER COMPLETE — 077
YA165-057 + 24V HOST 8 POWER COMPLETE — 079
YA171-023 + 24VDC BOOTSTRAP. — 083
YA171-012 + 24V FROM PWR SEL SW — 085
YA171-037 + 24VDC RTN TO OP PANEL — 087
YA171-009 + 24VDC TO POWER ON SWITCH — 089
YA171-031 + 24VDC TO AC APPLIED LED — 091
YA181-011 + 24VDC UE TO DC SWITCH PANEL — 095
YA215-067 + POWER DOWN SEQUENCE — 101
YA215-065 + 24VDC RTN TO HOLD MAINT PWR — 103
YA215-106 + 24VDC RTN TO START DEV SEQ — 107
YA191-010 + 24VDC START DEVICE INTERFACE — 111
YA191-016 + 24VDC RTN TO DEV INTERFACE — 113
YA115-048 + 24VDC UE TO PICK K404 — 117
YA115-054 + FROM BD B1 THERM TO PICK K401. — 119
EC HISTORY
09AUG84 881221
CENTRAL POWER CONTROL BOARD
SEQ YA009
PRINT 10JAN85 1057 PN 6315759
PAGE 14 OF 32
MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC
IBM CORP
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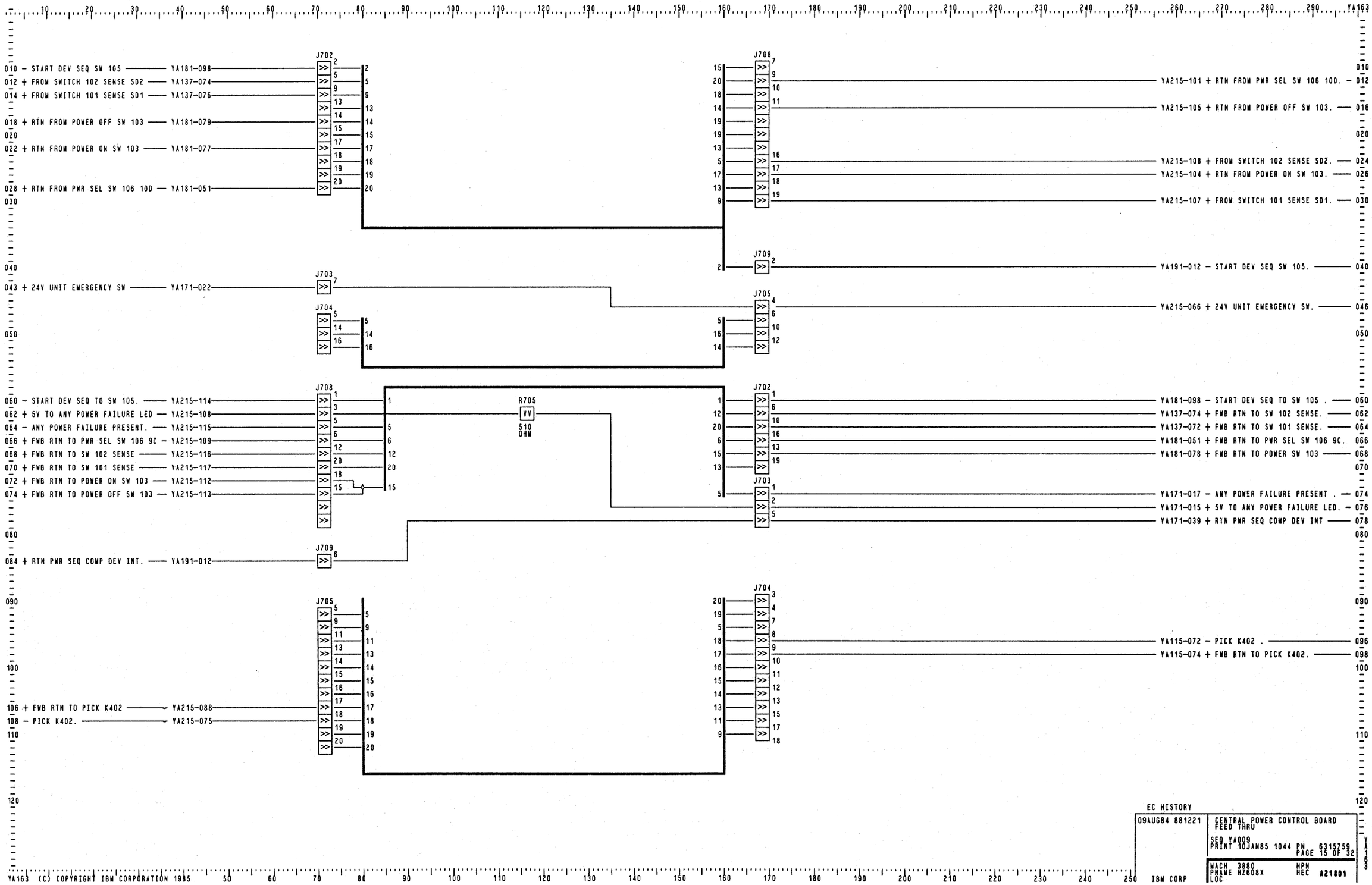
010 - START DEV SEQ SW 105 — YA181-098
012 + FROM SWITCH 102 SENSE SD2 — YA137-074
014 + FROM SWITCH 101 SENSE SD1 — YA137-076
018 + RTN FROM POWER OFF SW 103 — YA181-079
022 + RTN FROM POWER ON SW 103 — YA181-077
028 + RTN FROM PWR SEL SW 106 10D — YA181-051
043 + 24V UNIT EMERGENCY SW — YA171-022
060 - START DEV SEQ TO SW 105. — YA215-114
062 + 5V TO ANY POWER FAILURE LED — YA215-108
064 - ANY POWER FAILURE PRESENT. — YA215-115
066 + FWB RTN TO PWR SEL SW 106 9C — YA215-109
068 + FWB RTN TO SW 102 SENSE — YA215-116
070 + FWB RTN TO SW 101 SENSE — YA215-117
072 + FWB RTN TO POWER ON SW 103 — YA215-112
074 + FWB RTN TO POWER OFF SW 103 — YA215-113
084 + RTN PWR SEQ COMP DEV INT. — YA191-012
106 + FWB RTN TO PICK K402 — YA215-088
108 - PICK K402. — YA215-075
J702
J703
J704
J705
J708
J709
R705
510 OHM
YA215-101 + RTN FROM PWR SEL SW 106 10D. - 012
YA215-105 + RTN FROM POWER OFF SW 103. — 016
YA215-108 + FROM SWITCH 102 SENSE SD2. — 024
YA215-104 + RTN FROM POWER ON SW 103. — 026
YA215-107 + FROM SWITCH 101 SENSE SD1. — 030
YA191-012 - START DEV SEQ SW 105. — 040
YA215-066 + 24V UNIT EMERGENCY SW. — 046
YA181-098 - START DEV SEQ TO SW 105 . — 060
YA137-074 + FWB RTN TO SW 102 SENSE. — 062
YA137-072 + FWB RTN TO SW 101 SENSE. — 064
YA181-051 + FWB RTN TO PWR SEL SW 106 9C. 066
YA181-078 + FWB RTN TO POWER SW 103 — 068
YA171-017 - ANY POWER FAILURE PRESENT . — 074
YA171-015 + 5V TO ANY POWER FAILURE LED. - 076
YA171-039 + RTN PWR SEQ COMP DEV INT — 078
YA115-072 - PICK K402 . — 096
YA115-074 + FWB RTN TO PICK K402. — 098
EC HISTORY
09AUG84 881221
CENTRAL POWER CONTROL BOARD
FEED THRU
SEQ YA009
PRINT 10JAN85 1044 PN 6315759
PAGE 15 OF 32
WACH 3880 HPN
PNAME HZ608X HEC A21801
LOC
IBM CORP
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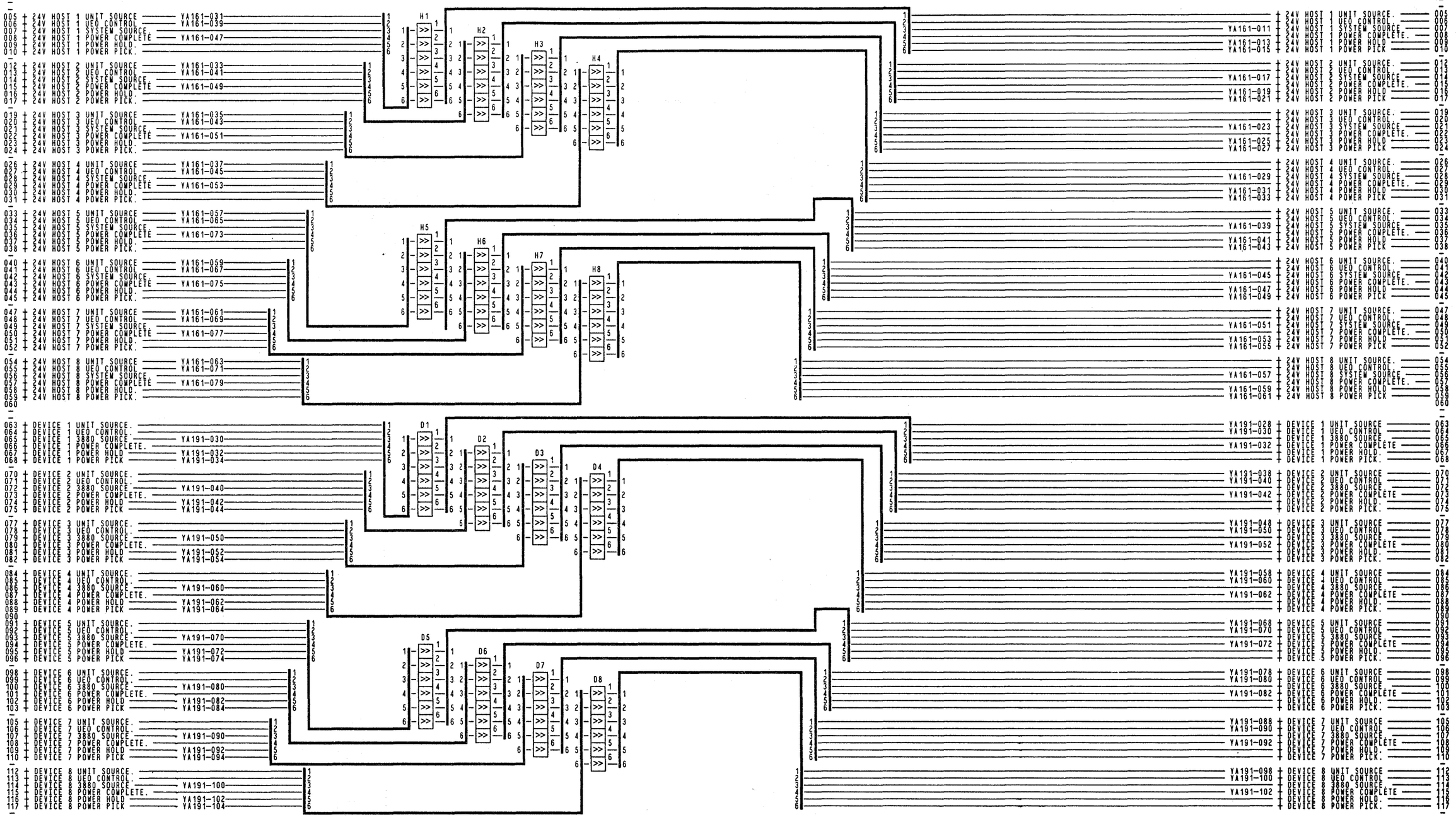

EC HISTORY

09AUG84 881221

HOST AND DEVICE CONNECTOR PANEL

SEQ YA009
PRINT 10JAN85 1769 PN 6315759
PAGE 16 OF 32

MACH 3880 HPN
PNAME H2608X HEC A21801
LOC

IBM CORP

009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 – ANY POWER FAILURE PRESENT . — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040

SUBSYSTEM POWER SW502 (ON / OFF)

POWER CHECK LED L501

EC 501H

UNIT EMERGENCY SW501

FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.

EC 501G, 2K R503, EC 501C, POWER ON LED L503, EC 501A

2K R504, EC 501D

POWER SEQUENCE COMPLETE L502

EC 501E

SW501, SW501 IN THE OTHER 3880

ENABLE / DISABLE

YA161-097 + OP PANEL POWER ON — 009
YA161-099 + PICK POWER ON RELAY K701 — 012
YC200-062 + 24V TO KA01, KA02, AND KA03 — 020
YA163-043 + 24VDC UNIT EMERGENCY SW — 022
YA161-101 + 24V RTN TO PICK SEQ COMP RELAY — 040

050
057 + 5V SD1 — B4ZG -U6C02
059 – STORAGE DIRECTOR CHECK SD1 — HV200-026 — -V6A02
060
061 – STORAGE DIRECTOR WAIT SD1 — HV200-027 — -U6C04
063 – STORAGE DIRECTOR STATUS SD1 — HV200-029 — -V6A04
065 – STORAGE DIRECTOR PROCESS SD1 — HV200-028 — -U6E04

STORAGE DIRECTOR 1: CHECK, WAIT, STATUS PENDING, PROCESS

J505

CHANNEL A, CHANNEL B, CHANNEL C, CHANNEL D (EN / DIS)

CHAN A DISABLED, CHAN B DISABLED, CHAN C DISABLED, CHAN D DISABLED

J502

A4Y6

070 – GND SD1 CHAN A — -T1B13
072 – GND SD1 CHAN B — -T1C11
074 – GND SD1 CHAN C — -U1E13
076 – GND SD1 CHAN D — -V1A11
078 + 5V SD1 CHAN — -T1B11
080 – CIF A DISABLED TO IND SD1 — DR200-011 — -T1E11
082 – CIF B DISABLED TO IND SD1 — DQ200-011 — -U1A11
084 – CIF C DISABLED TO IND SD1 — DE200-011 — -U1B13
086 – CIF D DISABLED TO IND SD1 — DF200-011 — -U1C13

J501

J502 — A4Y6
T1A13 — DR200-009 – ENABLE CIF A (OP-PNL) SD1 — 051
T1D13 — DQ200-009 – ENABLE CIF B (OP-PNL) SD1 — 053
U1D13 — DE200-009 – ENABLE CIF C (OP-PNL) SD1 — 055
V1B13 — DF200-009 – ENABLE CIF D (OP-PNL) SD1 — 057
V1B11 — DF200-008 – DISABLE CIF D (OP-PNL) SD1 — 059
U1D11 — DE200-008 – DISABLE CIF C (OP-PNL) SD1 — 061
T1D11 — DQ200-008 – DISABLE CIF B (OP-PNL) SD1 — 063
T1A11 — DR200-008 – DISABLE CIF A (OP-PNL) SD1 — 065

090
098 + 5V SD2 — B3ZG -U6C02
100 – STORAGE DIRECTOR CHECK SD2 — GV200-026 — -V6A02
102 – STORAGE DIRECTOR WAIT SD2 — GV200-027 — -U6C04
104 – STORAGE DIRECTOR STATUS SD2 — GV200-029 — -V6A04
106 – STORAGE DIRECTOR PROCESS SD2 — GV200-028 — -U6E04

STORAGE DIRECTOR 2: CHECK, WAIT, STATUS PENDING, PROCESS

J505

CHANNEL A, CHANNEL B, CHANNEL C, CHANNEL D (EN / DIS)

CHAN A DISABLED, CHAN B DISABLED, CHAN C DISABLED, CHAN D DISABLED

J504

A3Y6

110
111 – GND SD2 CHAN A — -T1B13
113 – GND SD2 CHAN B — -T1C11
115 – GND SD2 CHAN C — -U1E13
117 – GND SD2 CHAN D — -V1A11
119 + 5V SD2 CHAN — -T1B11
120
121 – CIF A DISABLED TO IND SD2 — DR200-011 — -T1E11
123 – CIF B DISABLED TO IND SD2 — DQ200-011 — -U1A11
125 – CIF C DISABLED TO IND SD2 — DE200-011 — -U1B13
127 – CIF D DISABLED TO IND SD2 — DF200-011 — -U1C13

J503

J504 — A3Y6
T1A13 — DR200-009 – ENABLE CIF A (OP-PNL) SD2 — 092
T1D13 — DQ200-009 – ENABLE CIF B (OP-PNL) SD2 — 094
U1D13 — DE200-009 – ENABLE CIF C (OP-PNL) SD2 — 096
V1B13 — DF200-009 – ENABLE CIF D (OP-PNL) SD2 — 098
V1B11 — DF200-008 – DISABLE CIF D (OP-PNL) SD2 — 100
U1D11 — DE200-008 – DISABLE CIF C (OP-PNL) SD2 — 102
T1D11 — DQ200-008 – DISABLE CIF B (OP-PNL) SD2 — 104
T1A11 — DR200-008 – DISABLE CIF A (OP-PNL) SD2 — 106

EC HISTORY

09AUG84 881221	OPERATOR PANEL AND 4 CHANNEL SWITCHES MODELS WITH SUBSYSTEM STORAGE SEQ YA009 PRINT 10JAN85 1111 PN 6315759 PAGE 17 OF 32
	MACH 3880 HPN PNAME HZ608X HEC A21801 LOC

IBM CORP

009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. - YA163-076
017 - ANY POWER FAILURE PRESENT . — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040

SUBSYSTEM POWER SW502 (ON / OFF)
2 — 3 — YA161-097 + OP PANEL POWER ON — 009 010
5 — 6 — YA161-099 + PICK POWER ON RELAY K701 — 012

POWER CHECK LED L501
EC 501H
EC 501G — 2K R503 — EC 501C — POWER ON LED L503
EC 501A
2K R504 — EC 501D
EC 501E
POWER SEQUENCE COMPLETE L502

UNIT EMERGENCY SW501
5 — 6 — YC200-062 + 24V TO KA01, KA02, AND KA03 — 020
ENABLED — YA163-043 + 24VDC UNIT EMERGENCY SW — 022

SW501 — 8 — 9 — 11 — 12 — 5 — 6
SW501 IN THE OTHER 3880

FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.

ENABLE — 3
DISABLE — 1
2 — YA161-101 + 24V RTN TO PICK SEQ COMP RELAY — 040

050
057 + 5V SD1 — B4ZG -U6C02 — J505 6
059 - STORAGE DIRECTOR CHECK SD1 — HV200-026 — -V6A02 — 7
061 - STORAGE DIRECTOR WAIT SD1 — HV200-027 — -U6C04 — 8
063 - STORAGE DIRECTOR STATUS SD1 — HV200-029 — -V6A04 — 10
065 - STORAGE DIRECTOR PROCESS SD1 - HV200-028 — -U6E04 — 9

STORAGE DIRECTOR 1: CHECK, WAIT, STATUS PENDING, PROCESS

070 - GND SD1 CHAN A — A4Y6 -T1B13 — J502 3 — R1 2
072 - GND SD1 CHAN B — -T1C11 — 4 — 5
074 - GND SD1 CHAN C — -U1E13 — 9 — R2 2
076 - GND SD1 CHAN D — -V1A11 — 10 — 5
078 + 5V SD1 CHAN — -T1B11 — J501 1
080 - CIF A DISABLED TO IND SD1 — DR200-011 — -T1E11 — 2
082 - CIF B DISABLED TO IND SD1 — DQ200-011 — -U1A11 — 3
084 - CIF C DISABLED TO IND SD1 — DE200-011 — -U1B13 — 4
086 - CIF D DISABLED TO IND SD1 — DF200-011 — -U1C13 — 5

CHANNEL A REMOTE (EN/DIS)
CHAN A DISABLED
CHANNEL B REMOTE (EN/DIS)
CHAN B DISABLED
CHANNEL C REMOTE (EN/DIS)
CHAN C DISABLED
CHANNEL D REMOTE (EN/DIS)
CHAN D DISABLED

R1 1 — 4
R2 1 — 4
R2 6 — 3
R1 6 — 3

J502 1 — A4Y6 T1A13 — DR200-009 — ENABLE CIF A (OP-PNL) SD1 — 050 051
6 — T1D13 — DQ200-009 — ENABLE CIF B (OP-PNL) SD1 — 053
7 — U1D13 — DE200-009 — ENABLE CIF C (OP-PNL) SD1 — 055
12 — V1B13 — DF200-009 — ENABLE CIF D (OP-PNL) SD1 — 057
11 — V1B11 — DF200-008 — DISABLE CIF D (OP-PNL) SD1 — 059 060
8 — U1D11 — DE200-008 — DISABLE CIF C (OP-PNL) SD1 — 061
5 — T1D11 — DQ200-008 — DISABLE CIF B (OP-PNL) SD1 — 063
2 — T1A11 — DR200-008 — DISABLE CIF A (OP-PNL) SD1 — 065

1.2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESSION BETWEEN PINS SO7, U06 AND GROUND ON BOARDS A3 AND A4 AS FOLLOWS.

† R2S07 - P2U08 † R2U06 - Q2U08
† Q2S07 - M2U08 † Q2U06 - N2U08
† E2S07 - B2U08 † E2U06 - C2U08
† F2S07 - D2U08 † F2U06 - E2U08

090
098 + 5V SD2 — B3ZG -U6C02 — J505 1
100 - STORAGE DIRECTOR CHECK SD2 — GV200-026 — -V6A02 — 2
102 - STORAGE DIRECTOR WAIT SD2 — GV200-027 — -U6C04 — 3
104 - STORAGE DIRECTOR STATUS SD2 — GV200-029 — -V6A04 — 5
106 - STORAGE DIRECTOR PROCESS SD2 - GV200-028 — -U6E04 — 4

STORAGE DIRECTOR 2: CHECK, WAIT, STATUS PENDING, PROCESS

110
111 - GND SD2 CHAN A — A3Y6 -T1B13 — J504 3 — R3 2
113 - GND SD2 CHAN B — -T1C11 — 4 — 5
115 - GND SD2 CHAN C — -U1E13 — 9 — R4 2
117 - GND SD2 CHAN D — -V1A11 — 10 — 5
119 + 5V SD2 CHAN — -T1B11 — J503 1
120
121 - CIF A DISABLED TO IND SD2 — DR200-011 — -T1E11 — 2
123 - CIF B DISABLED TO IND SD2 — DQ200-011 — -U1A11 — 3
125 - CIF C DISABLED TO IND SD2 — DE200-011 — -U1B13 — 4
127 - CIF D DISABLED TO IND SD2 — DF200-011 — -U1C13 — 5

CHANNEL A REMOTE (EN/DIS)
CHAN A DISABLED
CHANNEL B REMOTE (EN/DIS)
CHAN B DISABLED
CHANNEL C REMOTE (EN/DIS)
CHAN C DISABLED
CHANNEL D REMOTE (EN/DIS)
CHAN D DISABLED

R3 1 — 4
R4 1 — 4
R4 6 — 3
R3 6 — 3

J504 1 — A3Y6 T1A13 — DR200-009 — ENABLE CIF A (OP-PNL) SD2 — 090 092
6 — T1D13 — DQ200-009 — ENABLE CIF B (OP-PNL) SD2 — 094
7 — U1D13 — DE200-009 — ENABLE CIF C (OP-PNL) SD2 — 096
12 — V1B13 — DF200-009 — ENABLE CIF D (OP-PNL) SD2 — 098
11 — V1B11 — DF200-008 — DISABLE CIF D (OP-PNL) SD2 — 100
8 — U1D11 — DE200-008 — DISABLE CIF C (OP-PNL) SD2 — 102
5 — T1D11 — DQ200-008 — DISABLE CIF B (OP-PNL) SD2 — 104
2 — T1A11 — DR200-008 — DISABLE CIF A (OP-PNL) SD2 — 106

EC HISTORY

09AUG84 881221	OPERATOR PANEL WITH REMOTE 4 CHANNEL SWITCHES MODELS WITH SUBSYSTEM STORAGE SEQ YA009 PRINT 10JAN85 1111 PN 6315759 PAGE 18 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC 0003

YA171 -(C) COPYRIGHT IBM CORPORATION 1985 — IBM CORP — YA171

009 + 24VDC TO POWER ON SWITCH — YA161-089
010
012 + 24V FROM PWR SEL SW — YA161-085
015 + 5V TO ANY POWER FAILURE LED. — YA163-076
017 – ANY POWER FAILURE PRESENT. — YA163-074
020
023 + 24VDC BOOTSTRAP. — YA161-083
030
031 + 24VDC TO AC APPLIED LED — YA161-091
037 + 24VDC RTN TO OP PANEL — YA161-087
039 + RTN PWR SEQ COMP DEV INT — YA163-078
040
050
057 + 5V SD1
059 – STORAGE DIRECTOR CHECK SD1 — HV200-026
060
061 – STORAGE DIRECTOR WAIT SD1 — HV200-027
063 – STORAGE DIRECTOR STATUS SD1 — HV200-029
065 – STORAGE DIRECTOR PROCESS SD1 – HV200-028
070 – GND SD1 CHAN A
072 – GND SD1 CHAN B
074 – GND SD1 CHAN C
076 – GND SD1 CHAN D
078 + 5V SD1 CHAN
080 – CIF A DISABLED TO IND SD1 — DR200-011
082 – CIF B DISABLED TO IND SD1 — DQ200-011
084 – CIF C DISABLED TO IND SD1 — DE200-011
086 – CIF D DISABLED TO IND SD1 — DF200-011
090
098 + 5V SD2
100 – STORAGE DIRECTOR CHECK SD1 — GV200-026
102 – STORAGE DIRECTOR WAIT SD1 — GV200-027
104 – STORAGE DIRECTOR STATUS SD1 — GV200-029
106 – STORAGE DIRECTOR PROCESS SD1 – GV200-028
110
111 – GND SD2 CHAN A
113 – GND SD2 CHAN B
115 – GND SD2 CHAN C
117 – GND SD2 CHAN D
119 + 5V SD2 CHAN
120
121 – CIF A DISABLED TO IND SD2 — DR200-011
123 – CIF B DISABLED TO IND SD2 — DQ200-011
125 – CIF C DISABLED TO IND SD2 — DE200-011
127 – CIF D DISABLED TO IND SD2 — DF200-011

POWER CHECK LED L501
EC 501H
EC 501G
2K R503
EC 501C
POWER ON LED L503
EC 501A
2K R504
EC 501D
EC 501E
POWER SEQUENCE COMPLETE L502
SUBSYSTEM POWER SW502 (ON / OFF)
UNIT EMERGENCY SW501
SW501 IN THE OTHER 3880
FOR DUAL FRAME CONFIGURATION, THE UE SWITCH (SW501) IS WIRED AS SHOWN BY THE DOTTED LINES.
ENABLED
ENABLE
DISABLE

YA161-097 + OP PANEL POWER ON — 009
YA161-101 + PICK POWER ON RELAY K701 — 012
YC200-062 + 24V TO KA01, KA02, AND KA03 — 020
YA163-043 + 24VDC UNIT EMERGENCY SW — 022
YA175-061 – SD1 REMOTE CHAN A — 028
YA175-063 – SD1 REMOTE CHAN B — 030
YA175-067 – SD1 REMOTE CHAN C — 032
YA175-069 – SD1 REMOTE CHAN D — 034
YA161-103 + 24V RTN TO PICK SEQ COMP RELAY — 040
YA175-041 – SD1 CHAN D ENABLE REMOTE — 042
YA175-039 – SD1 CHAN C ENABLE REMOTE — 044
YA175-035 – SD1 CHAN A ENABLE REMOTE — 046
YA175-037 – SD1 CHAN B ENABLE REMOTE — 048
YA175-047 – SD1 CHAN B DISABLE REMOTE — 067
YA175-049 – SD1 CHAN A DISABLE REMOTE — 069
YA175-045 – SD1 CHAN C DISABLE REMOTE — 070
YA175-043 – SD1 CHAN D DISABLE REMOTE — 073
YA175-111 – SD2 REMOTE CHANNEL A — 075
YA175-113 – SD2 REMOTE CHANNEL B — 077
YA175-117 – SD2 REMOTE CHANNEL C — 079
YA175-119 – SD2 REMOTE CHANNEL D — 081
YA175-091 – SD2 CHAN D ENABLE REMOTE — 083
YA175-089 – SD2 CHAN C ENABLE REMOTE — 085
YA175-085 – SD2 CHAN A ENABLE REMOTE — 087
YA175-087 – SD2 CHAN B ENABLE REMOTE — 089
YA175-097 – SD2 CHAN B DISABLE REMOTE — 108
YA175-099 – SD2 CHAN A DISABLE REMOTE — 110
YA175-095 – SD2 CHAN C DISABLE REMOTE — 112
YA175-093 – SD2 CHAN D DISABLE REMOTE — 114

STORAGE DIRECTOR 1
B4ZG — R6C02, S6A02, R6C04, S6A04, R6E04
J505 — CHECK, WAIT, STATUS PENDING, PROCESS
A4Y6 — T1B13, T1C11, U1E13, V1A11, T1B11, T1E11, U1A11, U1B13, U1C13
J502
J501
STORAGE DIRECTOR 2
B3ZG — R6C02, S6A02, R6C04, S6A04, R6E04
J505 — CHECK, WAIT, STATUS PENDING, PROCESS
A3Y6 — T1B13, T1C11, U1E13, V1A11, T1B11, T1E11, U1A11, U1B13, U1C13
J504
J503

CHANNEL A
CHAN A DISABLED
CHANNEL B
CHAN B DISABLED
CHANNEL C
CHAN C DISABLED
CHANNEL D
CHAN D DISABLED
EN / REM / DIS

J502 / A4Y6
T1A13 — DR200-009 — ENABLE CIF A (OP-PNL) SD1 — 051
T1D13 — DQ200-009 — ENABLE CIF B (OP-PNL) SD1 — 053
U1D13 — DE200-009 — ENABLE CIF C (OP-PNL) SD1 — 055
V1B13 — DF200-009 — ENABLE CIF D (OP-PNL) SD1 — 057
V1B11 — DF200-008 — DISABLE CIF D (OP-PNL) SD1 — 059
U1D11 — DE200-008 — DISABLE CIF C (OP-PNL) SD1 — 061
T1D11 — DQ200-008 — DISABLE CIF B (OP-PNL) SD1 — 063
T1A11 — DR200-008 — DISABLE CIF A (OP-PNL) SD1 — 065

J504 / A3Y6
T1A13 — DR200-009 — ENABLE CIF A (OP-PNL) SD2 — 092
T1D13 — DQ200-009 — ENABLE CIF B (OP-PNL) SD2 — 094
U1D13 — DE200-009 — ENABLE CIF C (OP-PNL) SD2 — 096
V1B13 — DF200-009 — ENABLE CIF D (OP-PNL) SD2 — 098
V1B11 — DF200-008 — DISABLE CIF D (OP-PNL) SD2 — 100
U1D11 — DE200-008 — DISABLE CIF C (OP-PNL) SD2 — 102
T1D11 — DQ200-008 — DISABLE CIF B (OP-PNL) SD2 — 104
T1A11 — DR200-008 — DISABLE CIF A (OP-PNL) SD2 — 106

1,2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESSION BETWEEN PINS S07, D07 AND GROUND ON BOARDS A3 AND A4 AS FOLLOWS.

R2S07 – R2U08	R2U06 – R2U08
Q2S07 – N2U08	Q2U06 – N2U08
F2S07 – B2U08	E2U06 – C2U08
F2S07 – D2U08	F2U06 – E2U08

EC HISTORY

09AUG84 881221	OPERATOR PANEL 4X1 WITH LOCAL/REMOTE FEATURE MODELS WITH SUBSYSTEM STORAGE SEQ YA009 PRINT 10JAN85 1098 PN 6315759 PAGE 19 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21601
LOC 0001

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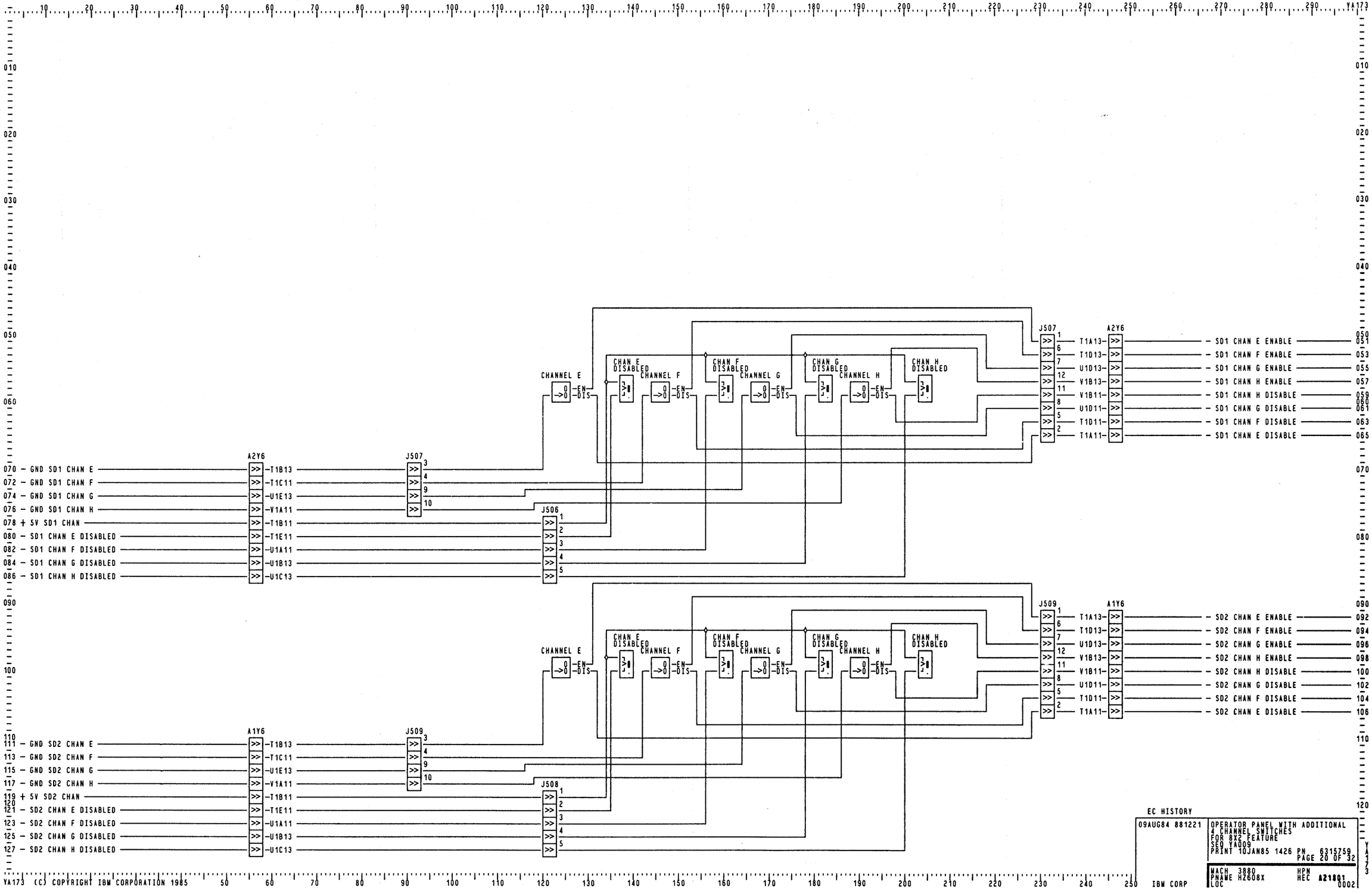

070 – GND SD1 CHAN E
072 – GND SD1 CHAN F
074 – GND SD1 CHAN G
076 – GND SD1 CHAN H
078 + 5V SD1 CHAN
080 – SD1 CHAN E DISABLED
082 – SD1 CHAN F DISABLED
084 – SD1 CHAN G DISABLED
086 – SD1 CHAN H DISABLED
A2Y6
T1B13
T1C11
U1E13
V1A11
T1B11
T1E11
U1A11
U1B13
U1C13
J507
3
4
9
10
J506
1
2
3
4
5
CHANNEL E
CHANNEL F
CHANNEL G
CHANNEL H
CHAN E DISABLED
CHAN F DISABLED
CHAN G DISABLED
CHAN H DISABLED
EN
DIS
J507
1
6
7
12
11
8
5
2
T1A13
T1D13
U1D13
V1B13
V1B11
U1D11
T1D11
T1A11
A2Y6
SD1 CHAN E ENABLE
SD1 CHAN F ENABLE
SD1 CHAN G ENABLE
SD1 CHAN H ENABLE
SD1 CHAN H DISABLE
SD1 CHAN G DISABLE
SD1 CHAN F DISABLE
SD1 CHAN E DISABLE
111 – GND SD2 CHAN E
113 – GND SD2 CHAN F
115 – GND SD2 CHAN G
117 – GND SD2 CHAN H
119 + 5V SD2 CHAN
121 – SD2 CHAN E DISABLED
123 – SD2 CHAN F DISABLED
125 – SD2 CHAN G DISABLED
127 – SD2 CHAN H DISABLED
A1Y6
T1B13
T1C11
U1E13
V1A11
T1B11
T1E11
U1A11
U1B13
U1C13
J509
3
4
9
10
J508
1
2
3
4
5
CHANNEL E
CHANNEL F
CHANNEL G
CHANNEL H
CHAN E DISABLED
CHAN F DISABLED
CHAN G DISABLED
CHAN H DISABLED
EN
DIS
J509
1
6
7
12
11
8
5
2
T1A13
T1D13
U1D13
V1B13
V1B11
U1D11
T1D11
T1A11
A1Y6
SD2 CHAN E ENABLE
SD2 CHAN F ENABLE
SD2 CHAN G ENABLE
SD2 CHAN H ENABLE
SD2 CHAN H DISABLE
SD2 CHAN G DISABLE
SD2 CHAN F DISABLE
SD2 CHAN E DISABLE
EC HISTORY
09AUG84 881221
OPERATOR PANEL WITH ADDITIONAL 4 CHANNEL SWITCHES FOR 8X2 FEATURE
SEQ YA009
PRINT 10JAN85 1426 PN 6315759
PAGE 20 OF 32
MACH 3880
PNAME HZ608X
LOC
HPN
HEC A21881
0002
IBM CORP
YA173 (C) COPYRIGHT IBM CORPORATION 1985

1.2 MFD CAPACITORS ARE INSTALLED FOR NOISE SUPPRESSION BETWEEN PINS S07, U06 AND GROUND ON BOARDS A1 AND A2 AS FOLLOWS.

+ R2S07 – P2U08
+ D2S07 – M2U08
+ F2S07 – B2U08
+ P2S07 – D2U08
+ R2U06 – Q2U08
+ G2U06 – N2U08
+ F2U06 – C2U08
+ P2U06 – E2U08

CHANNEL E
CHAN E DISABLED
CHANNEL F
CHAN F DISABLED
CHANNEL G
CHAN G DISABLED
CHANNEL H
CHAN H DISABLED
REMOTE
-EN
-DIS

R5 R6 R7 R8

J507 J509

A2Y6 A1Y6

J506 J508

070 – GND SD1 CHAN E
072 – GND SD1 CHAN F
074 – GND SD1 CHAN G
076 – GND SD1 CHAN H
078 + 5V SD1 CHAN
080 – SD1 CHAN E DISABLED
082 – SD1 CHAN F DISABLED
084 – SD1 CHAN G DISABLED
086 – SD1 CHAN H DISABLED

111 – GND SD2 CHAN E
113 – GND SD2 CHAN F
115 – GND SD2 CHAN G
117 – GND SD2 CHAN H
119 + 5V SD2 CHAN
121 – SD2 CHAN E DISABLED
123 – SD2 CHAN F DISABLED
125 – SD2 CHAN G DISABLED
127 – SD2 CHAN H DISABLED

T1B13 T1C11 U1E13 V1A11 T1B11 T1E11 U1A11 U1B13 U1C13

T1A13 T1D13 U1D13 V1B13 V1B11 U1D11 T1D11 T1A11

051 – SD1 CHAN E ENABLE
053 – SD1 CHAN F ENABLE
055 – SD1 CHAN G ENABLE
057 – SD1 CHAN H ENABLE
059 – SD1 CHAN H DISABLE
061 – SD1 CHAN G DISABLE
063 – SD1 CHAN F DISABLE
065 – SD1 CHAN E DISABLE

092 – SD2 CHAN E ENABLE
094 – SD2 CHAN F ENABLE
096 – SD2 CHAN G ENABLE
098 – SD2 CHAN H ENABLE
100 – SD2 CHAN H DISABLE
102 – SD2 CHAN G DISABLE
104 – SD2 CHAN F DISABLE
106 – SD2 CHAN E DISABLE

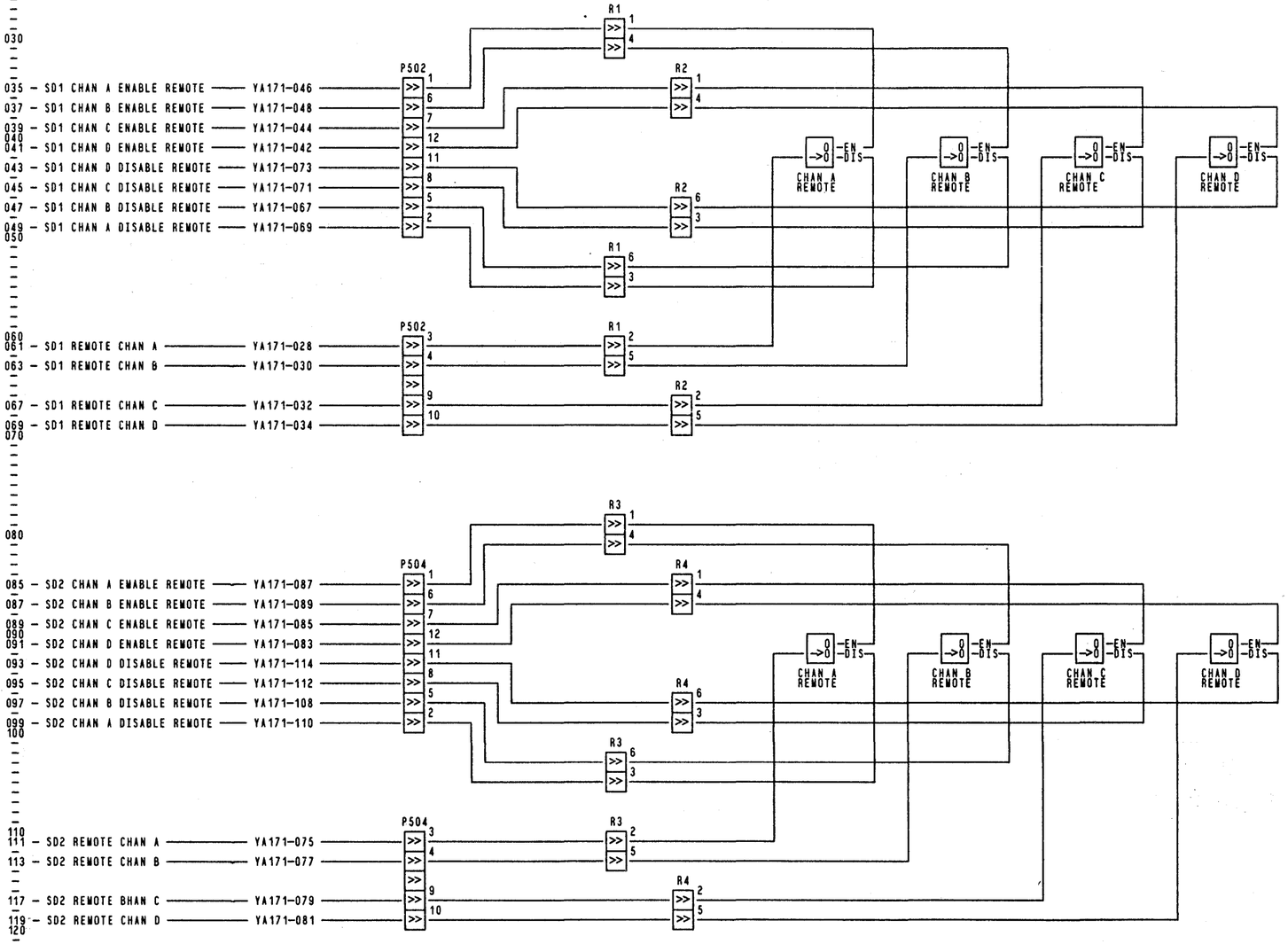
EC HISTORY

09AUG84 881221	OPERATOR PANEL WITH ADDITIONAL REMOTE 4 CHANNEL SWITCHES FOR 8X2 FEATURE SEQ YA009
	PRINT 10JAN85 1426 PN 6315759 PAGE 21 OF 32

MACH 3880 HPN
PNAME H2608x HEC A21801
LOC 0001

YA173

IBM CORP

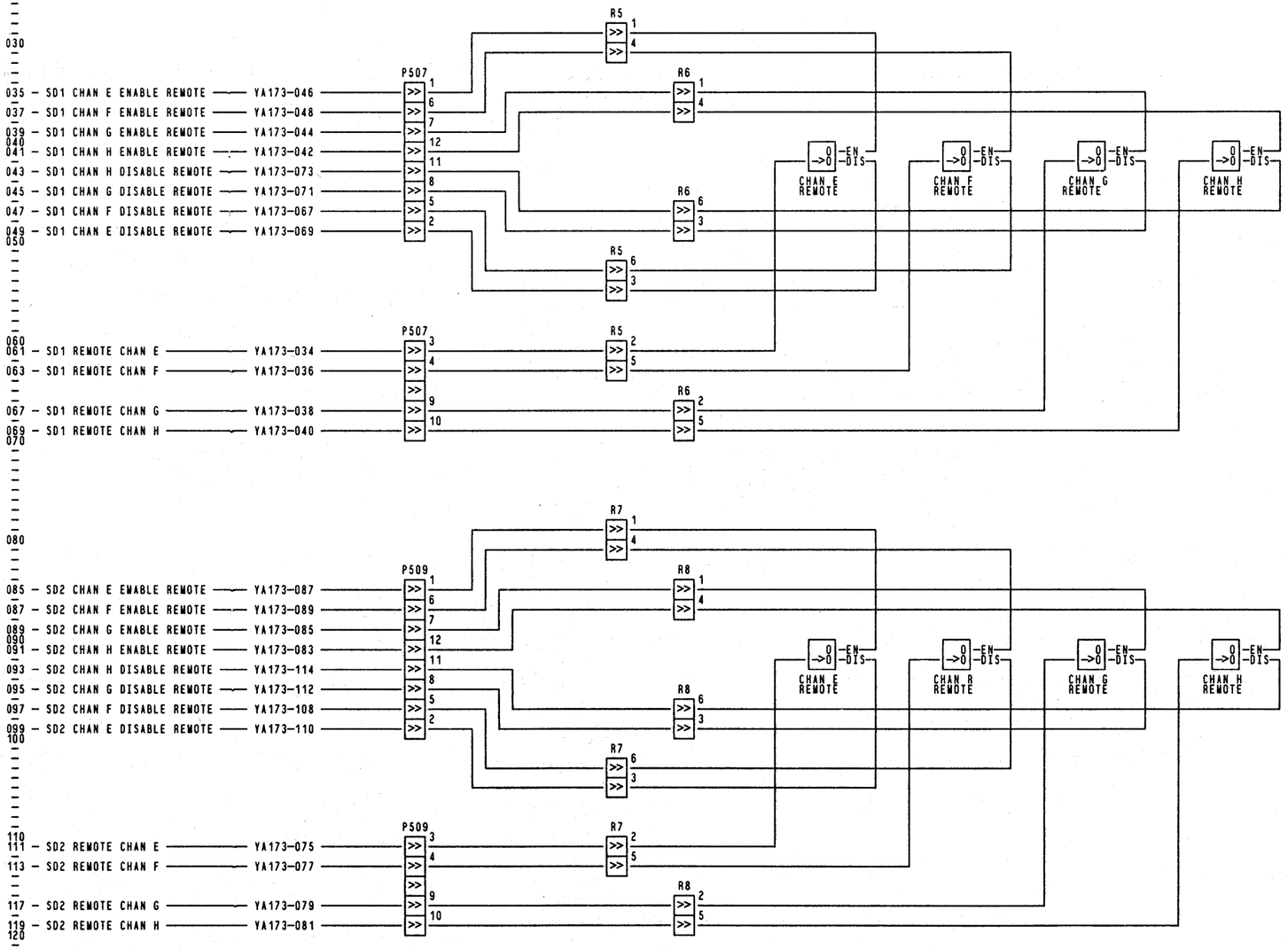


EC HISTORY

09AUG84 881221	4X1 LOCAL REMOTE SWITCH FEATURE

SEQ YA009
PRINT 10JAN85 0022 PN 6315759
PAGE 22 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC



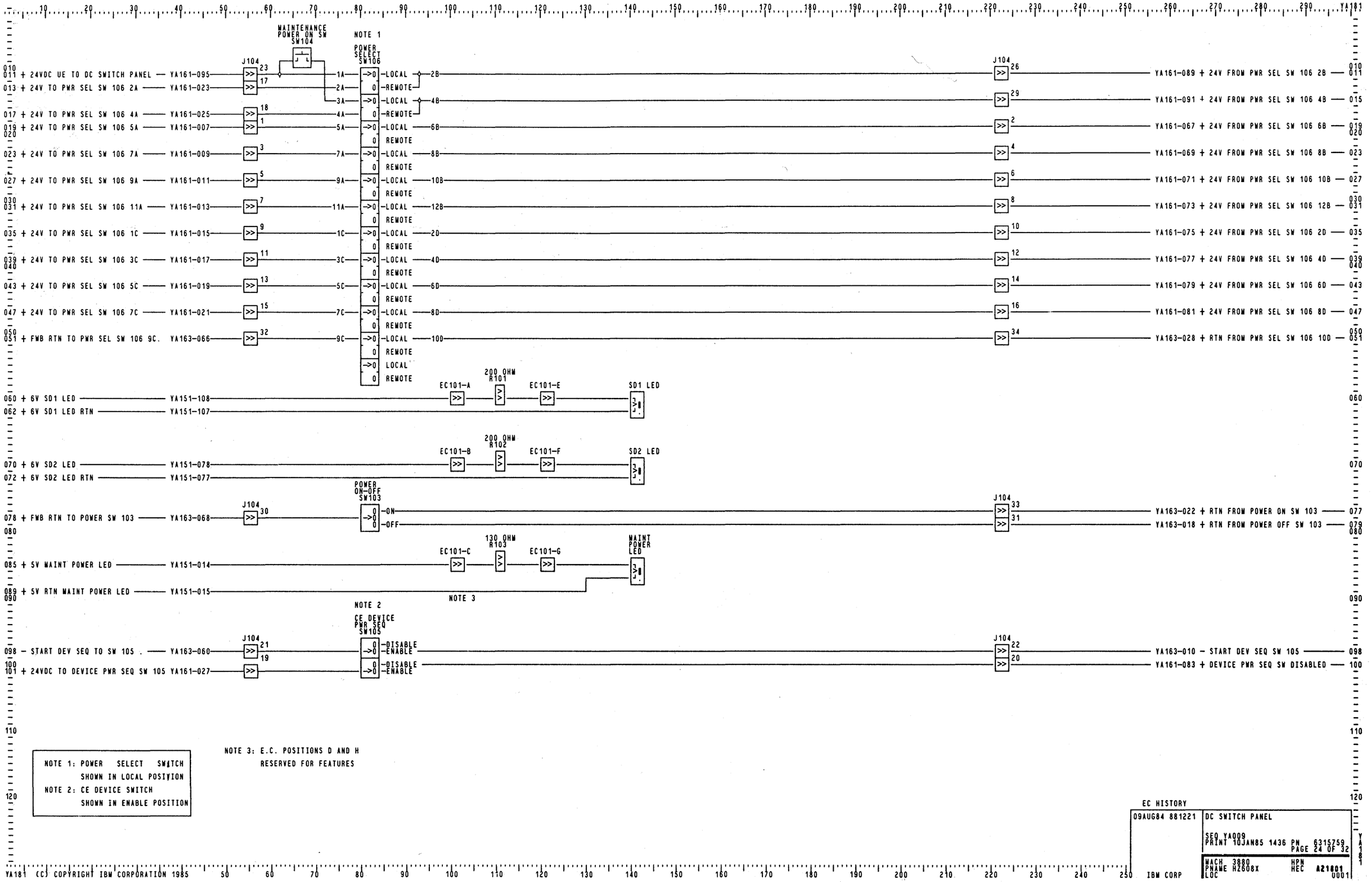
EC HISTORY

09AUG84 881221	8X2 LOCAL REMOTE SWITCH FEATURE

SEQ YA009
PRINT 10JAN85 0018 PN 6315759
PAGE 23 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP



NOTE 1: POWER SELECT SWITCH SHOWN IN LOCAL POSITION
NOTE 2: CE DEVICE SWITCH SHOWN IN ENABLE POSITION

NOTE 3: E.C. POSITIONS D AND H RESERVED FOR FEATURES

EC HISTORY

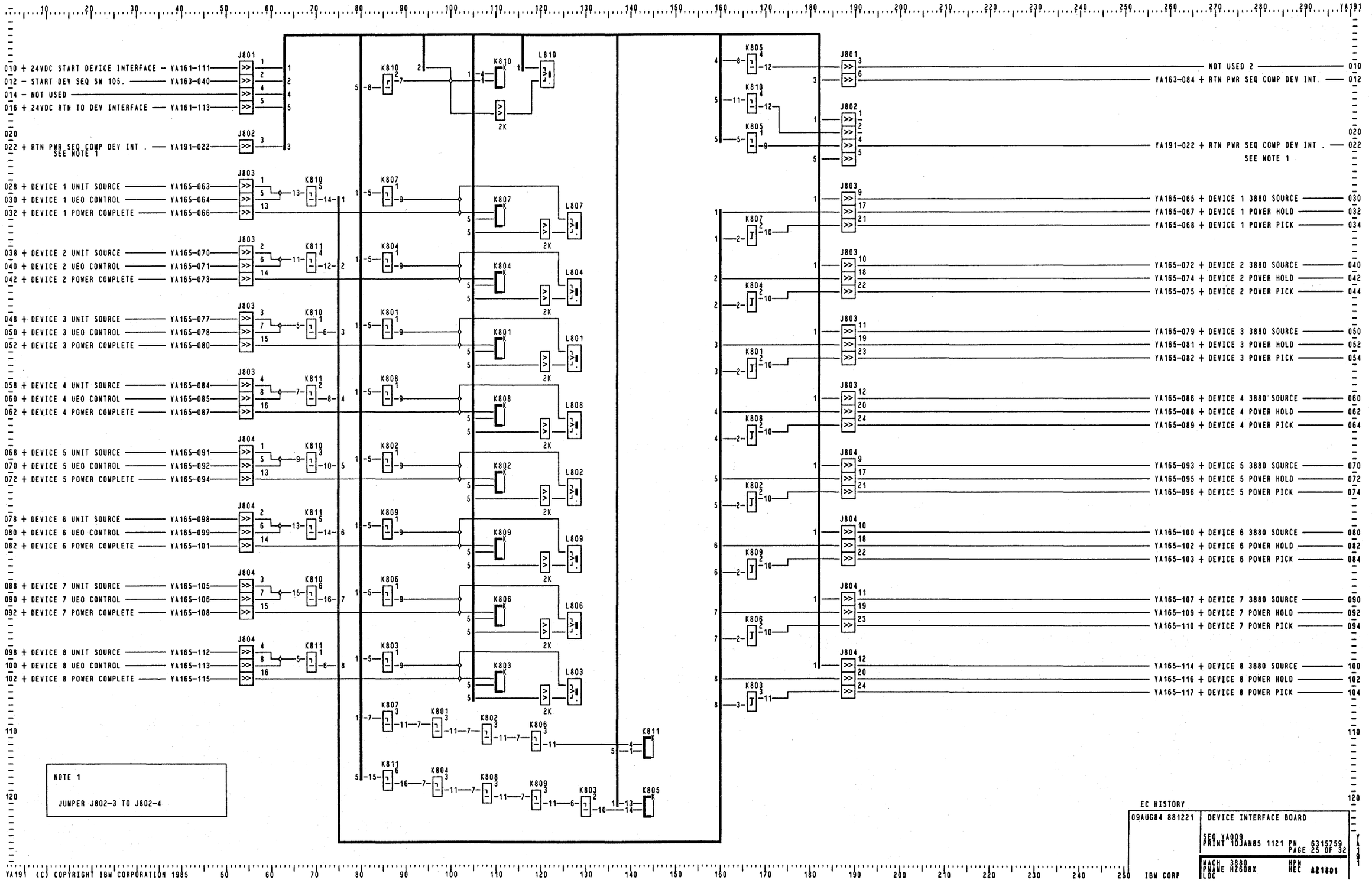
09AUG84 881221

DC SWITCH PANEL

SEQ YA009
PRINT 10JAN85 1436 PN 6315759
PAGE 24 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21601
LOC 0001

IBM CORP


010 + 24VDC START DEVICE INTERFACE – YA161-111
012 – START DEV SEQ SW 105. YA163-040
014 – NOT USED
016 + 24VDC RTN TO DEV INTERFACE YA161-113
020
022 + RTN PWR SEQ COMP DEV INT . YA191-022
SEE NOTE 1
028 + DEVICE 1 UNIT SOURCE YA165-063
030 + DEVICE 1 UEO CONTROL YA165-064
032 + DEVICE 1 POWER COMPLETE YA165-066
038 + DEVICE 2 UNIT SOURCE YA165-070
040 + DEVICE 2 UEO CONTROL YA165-071
042 + DEVICE 2 POWER COMPLETE YA165-073
048 + DEVICE 3 UNIT SOURCE YA165-077
050 + DEVICE 3 UEO CONTROL YA165-078
052 + DEVICE 3 POWER COMPLETE YA165-080
058 + DEVICE 4 UNIT SOURCE YA165-084
060 + DEVICE 4 UEO CONTROL YA165-085
062 + DEVICE 4 POWER COMPLETE YA165-087
068 + DEVICE 5 UNIT SOURCE YA165-091
070 + DEVICE 5 UEO CONTROL YA165-092
072 + DEVICE 5 POWER COMPLETE YA165-094
078 + DEVICE 6 UNIT SOURCE YA165-098
080 + DEVICE 6 UEO CONTROL YA165-099
082 + DEVICE 6 POWER COMPLETE YA165-101
088 + DEVICE 7 UNIT SOURCE YA165-105
090 + DEVICE 7 UEO CONTROL YA165-106
092 + DEVICE 7 POWER COMPLETE YA165-108
098 + DEVICE 8 UNIT SOURCE YA165-112
100 + DEVICE 8 UEO CONTROL YA165-113
102 + DEVICE 8 POWER COMPLETE YA165-115
NOTE 1
JUMPER J802-3 TO J802-4
NOT USED 2 010
YA163-084 + RTN PWR SEQ COMP DEV INT. 012
YA191-022 + RTN PWR SEQ COMP DEV INT . 020 022
SEE NOTE 1
YA165-065 + DEVICE 1 3880 SOURCE 030
YA165-067 + DEVICE 1 POWER HOLD 032
YA165-068 + DEVICE 1 POWER PICK 034
YA165-072 + DEVICE 2 3880 SOURCE 040
YA165-074 + DEVICE 2 POWER HOLD 042
YA165-075 + DEVICE 2 POWER PICK 044
YA165-079 + DEVICE 3 3880 SOURCE 050
YA165-081 + DEVICE 3 POWER HOLD 052
YA165-082 + DEVICE 3 POWER PICK 054
YA165-086 + DEVICE 4 3880 SOURCE 060
YA165-088 + DEVICE 4 POWER HOLD 062
YA165-089 + DEVICE 4 POWER PICK 064
YA165-093 + DEVICE 5 3880 SOURCE 070
YA165-095 + DEVICE 5 POWER HOLD 072
YA165-096 + DEVICE 5 POWER PICK 074
YA165-100 + DEVICE 6 3880 SOURCE 080
YA165-102 + DEVICE 6 POWER HOLD 082
YA165-103 + DEVICE 6 POWER PICK 084
YA165-107 + DEVICE 7 3880 SOURCE 090
YA165-109 + DEVICE 7 POWER HOLD 092
YA165-110 + DEVICE 7 POWER PICK 094
YA165-114 + DEVICE 8 3880 SOURCE 100
YA165-116 + DEVICE 8 POWER HOLD 102
YA165-117 + DEVICE 8 POWER PICK 104
EC HISTORY
09AUG84 881221
DEVICE INTERFACE BOARD
SEQ YA009
PRINT 10JAN85 1121 PN 6315759
PAGE 23 OF 32
MACH 3880 HPN
PNAME H2608x HEC A21801
LOC
IBM CORP
YA191 (C) COPYRIGHT IBM CORPORATION 1985

005 + 5V SR OVER VOLT. — YA133-021 — 1
006 + 5V SR OVER VOLT RTN. — YA133-023 — 2
007 + 5V SR OVER CURRENT. — YA133-025 — 3
008 + 5V SR OVER CURRENT RTN. — YA133-027 — 4
009 + REGS BULK UV — YA133-018 — 5
010 + REGS BULK RTN. — YA133-108 — 6
012 + 12V SR OVER VOLT. — YA133-110 — 7
013 + 12V SR OVER VOLT RTN. — YA133-112 — 8
014 + 12V SR OVER CURRENT. — YA133-114 — 9
015 + 12V SR OVER CURRENT RTN. — YA133-116 — 10
017 + FROM PWR STACK CP CHAIN — YA131-110 — 11
019 + 6V SR OVER VOLT. — YA133-069 — 12
020 + 6V SR OVER VOLT RTN. — YA133-070 — 13
021 + 6V SR OVER CURRENT. — YA133-071 — 14
022 + 6V SR OVER CURRENT RTN. — YA133-072 — 15
024 + 24V BIAS UV — YA133-104 — 16
027 + 12V REG BULK UV — YA133-106 — 17

A2: 2 B02 — 1 B03 — 6 B04 — 5 B05 — 10 B06 — 9 B07 — 13 B08 — 12 B09 — 16 B10 — 4 D02 — 3 D03 — 8 D04 — 7 D05 — 11 D07 — 15 D06 — 14 D09 — 17 D10

A3: B09

042 + FROM POWER THERMAL — YA137-118

053 - TURN ON 6V REG — YA407-037 — 1
054 - TURN ON 12V REG — YA407-019 — 2

066 + FWB RTN TO BD B1 A2 — YA151-018 — G

077 + TO CP301 AUX C. — YA215-066

090 + FROM CP301 AUX N/O — YA121-008 — A4 B02
092 + BD B1 CP CHAIN — YA121-114 — A4 D03

A2: 2 B12 — 1 B13 — G D08 — G D12 — G D13

1 YA405-045 + 5V SR OVER VOLT — 009
2 YA405-065 + 5V SR OVER VOLT RTN — 010
3 YA405-059 + 5V SR OVER CURRENT — 011
4 YA405-057 + 5V SR OVER CURRENT RTN — 012
5 YA405-041 + REGS BULK UN UNDER VOLT — 013
6 YA405-066 + REGS BULK RTN — 014
7 YA405-051 + 12V SR OVER VOLT — 016
8 YA405-047 + 12V SR OVER VOLT RTN — 017
9 YA405-076 + 12V SR OVER CURRENT — 018
10 YA405-046 + 12V SR OVER CURRENT RTN — 019
11 YA405-039 + FROM PWR STACK CP CHAIN. — 021
12 YA405-058 + 6V SR OVER VOLT — 023
13 YA405-036 + 6V SR OVER VOLT RTN — 024
14 YA405-063 + 6V SR OVER CURRENT — 025
15 YA405-049 + 6V SR OVER CURRENT RTN — 026
16 YA405-078 + 24V BIAS UV TO BD B1 C2 — 028
17 YA405-114 + 12V REG BULK UV — 031

1 YA131-125 + FWB RTN TO PWR STACK CP CHAIN — 034
2 YA133-117 + FWB RTN TO TURN ON 12V REG — 036
3 YA133-077 + FWB RTN TO TURN ON 6V REG — 037
4 YA133-079 - TURN ON 6V REG. — 039
5 YA133-121 - TURN ON 12V REG. — 040

YA217-018 + FROM POWER THERMAL. — 057

A3: B08 — YA137-118 + FWB RTN TO POWER THERMAL — 070
A3: D10

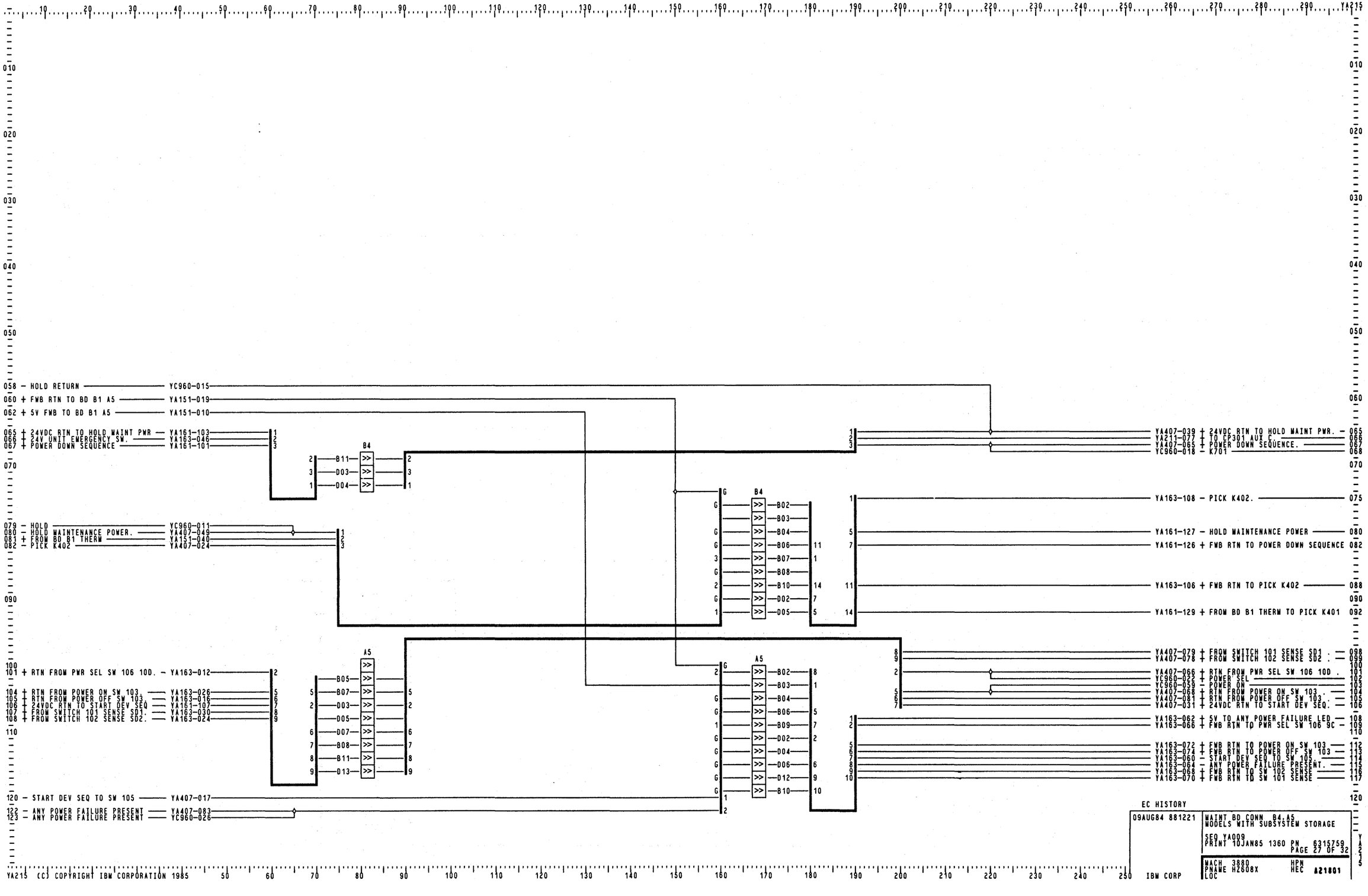
A4: B03 — YA121-009 + TO CP301 AUX C . — 081
A4: D02 — YA121-121 + FWB RTN TO BD B1 CP CHAIN — 083

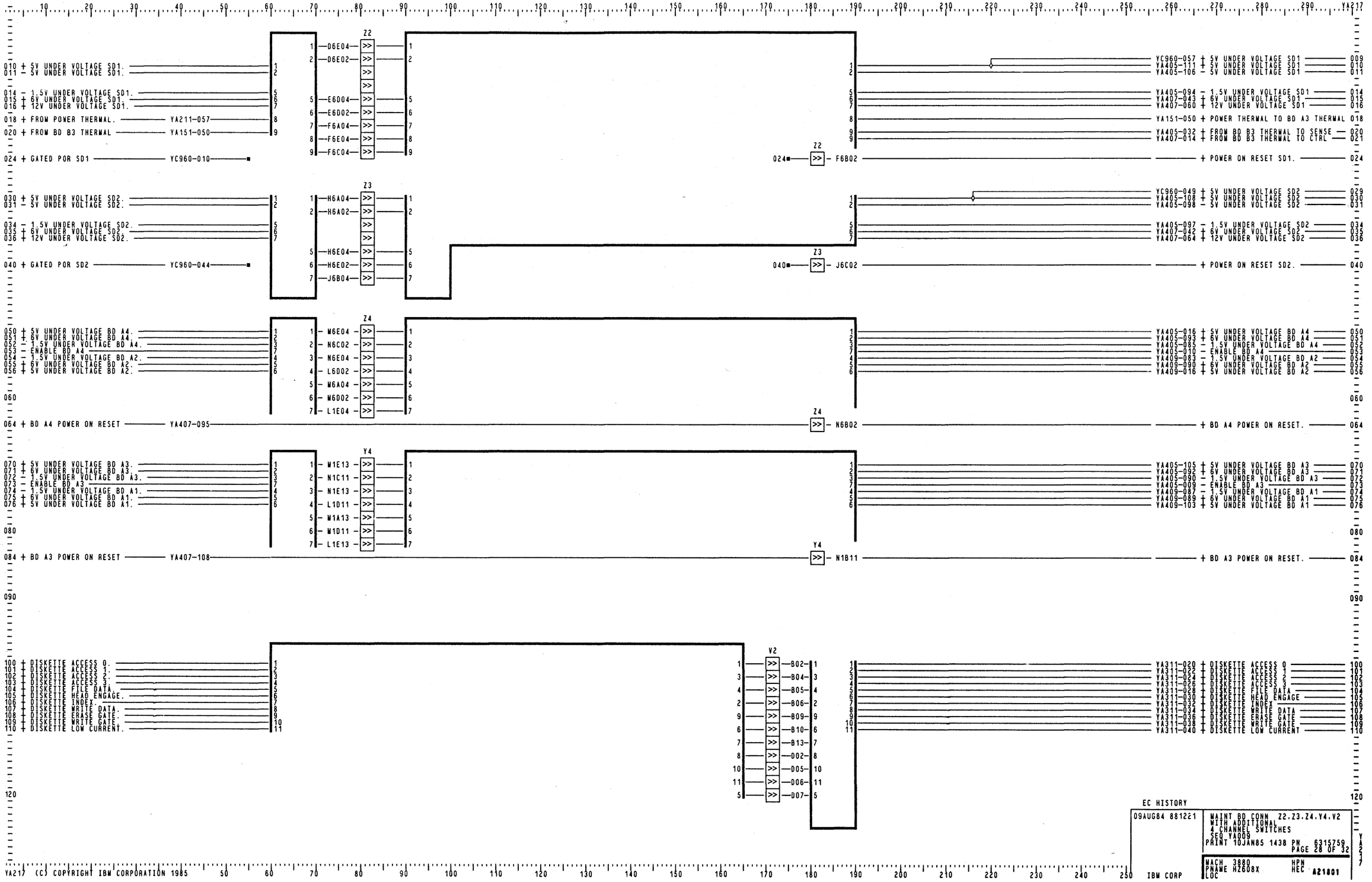
YA151-040 + CP301 AUX N/O TO BD B1 THERM — 090
YA405-033 + BD B1 CP CHAIN. — 092

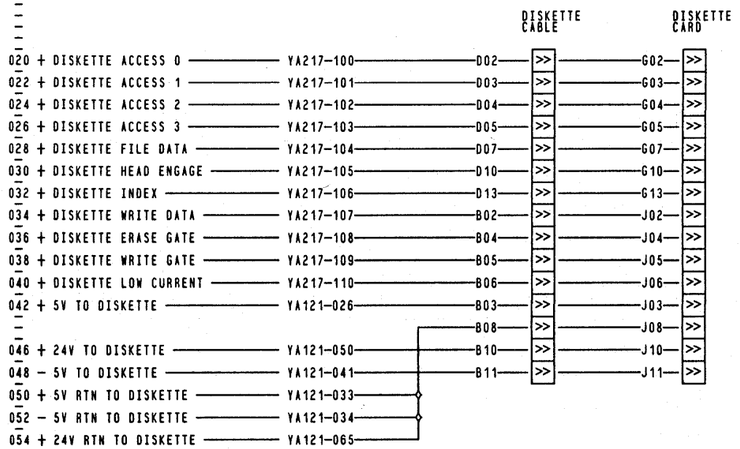
EC HISTORY

09AUG84 881221	MAINT BD CONN A2.A3.A4
	SEQ YA009
	PRINT 10JAN85 1142 PN 6315759 PAGE 26 OF 32
	MACH 3880 MPN
	PNAME MZ608X MEC A21601
	LOC

IBM CORP


058 – HOLD RETURN — YC960–015
060 + FWB RTN TO BD B1 A5 — YA151–019
062 + 5V FWB TO BD B1 A5 — YA151–010
065 + 24VDC RTN TO HOLD MAINT PWR — YA161–103
066 + 24V UNIT EMERGENCY SW. — YA163–046
067 + POWER DOWN SEQUENCE — YA161–101
B4
B11 — 2
D03 — 3
D04 — 1
079 – HOLD — YC960–011
080 – HOLD MAINTENANCE POWER. — YA407–049
081 + FROM BD B1 THERM — YA151–040
082 – PICK K402 — YA407–024
101 + RTN FROM PWR SEL SW 106 10D. – YA163–012
104 + RTN FROM POWER ON SW 103. — YA163–026
105 + RTN FROM POWER OFF SW 103 — YA163–016
106 + 24VDC RTN TO START DEV SEQ — YA161–107
107 + FROM SWITCH 101 SENSE SD1. — YA163–030
108 + FROM SWITCH 102 SENSE SD2. — YA163–024
A5
B05 — 5
B07 — 2
D03 — 5
D05 — 2
D07 — 6
B08 — 7
B11 — 8
D13 — 9
120 – START DEV SEQ TO SW 105 — YA407–017
122 – ANY POWER FAILURE PRESENT — YA407–083
123 – ANY POWER FAILURE PRESENT — YC960–026
G
B4
B02 — 11
B03 — 1
B04 — 14
B06 — 7
B07 — 5
B08
B10
D02
D05
A5
B02 — 8
B03 — 1
B04
B06 — 5
B09 — 7
D02 — 2
D04
D06 — 6
D12 — 9
B10 — 10
YA407–039 + 24VDC RTN TO HOLD MAINT PWR. – 065
YA211–077 + TO CP301 AUX C — 066
YA407–065 + POWER DOWN SEQUENCE. — 067
YC960–018 – K701 — 068
YA163–108 – PICK K402. — 075
YA161–127 – HOLD MAINTENANCE POWER — 080
YA161–126 + FWB RTN TO POWER DOWN SEQUENCE 082
YA163–106 + FWB RTN TO PICK K402 — 088
YA161–129 + FROM BD B1 THERM TO PICK K401 092
YA407–079 + FROM SWITCH 101 SENSE SD1 . — 098
YA407–078 + FROM SWITCH 102 SENSE SD2 . — 099
YA407–066 + RTN FROM PWR SEL SW 106 10D . — 101
YC960–022 + POWER SEL — 102
YC960–059 – POWER ON — 103
YA407–068 + RTN FROM POWER ON SW 103 . — 104
YA407–081 + RTN FROM POWER OFF SW 103 . — 105
YA407–031 + 24VDC RTN TO START DEV SEQ. — 106
YA163–062 + 5V TO ANY POWER FAILURE LED — 108
YA163–066 + FWB RTN TO PWR SEL SW 106 9C – 109
YA163–072 + FWB RTN TO POWER ON SW 103 — 112
YA163–074 + FWB RTN TO POWER OFF SW 103 — 113
YA163–060 – START DEV SEQ TO SW 105 — 114
YA163–064 – ANY POWER FAILURE PRESENT. — 115
YA163–068 + FWB RTN TO SW 102 SENSE — 116
YA163–070 + FWB RTN TO SW 101 SENSE — 117
EC HISTORY
09AUG84 881221
MAINT BD CONN B4,A5
MODELS WITH SUBSYSTEM STORAGE
SEQ YA009
PRINT 10JAN85 1360 PN 6315759
PAGE 27 OF 32
MACH 3880 HPN
PNAME HZ60BX HEC A21801
LOC
YA215 (C) COPYRIGHT IBM CORPORATION 1985
IBM CORP


Z2
Z3
Z4
Y4
V2
010 + 5V UNDER VOLTAGE SD1.
011 - 5V UNDER VOLTAGE SD1.
014 - 1.5V UNDER VOLTAGE SD1.
015 + 6V UNDER VOLTAGE SD1.
016 + 12V UNDER VOLTAGE SD1.
018 + FROM POWER THERMAL. YA211-057
020 + FROM BD B3 THERMAL YA151-050
024 + GATED POR SD1 YC960-010
D6E04
D6E02
E6D04
E6D02
F6A04
F6E04
F6C04
F6B02
+ POWER ON RESET SD1.
YC960-057 + 5V UNDER VOLTAGE SD1
YA405-111 + 5V UNDER VOLTAGE SD1
YA405-106 - 5V UNDER VOLTAGE SD1
YA405-094 - 1.5V UNDER VOLTAGE SD1
YA407-043 + 6V UNDER VOLTAGE SD1
YA407-060 + 12V UNDER VOLTAGE SD1
YA151-050 + POWER THERMAL TO BD A3 THERMAL
YA405-032 + FROM BD B3 THERMAL TO SENSE
YA407-014 + FROM BD B3 THERMAL TO CTRL
030 + 5V UNDER VOLTAGE SD2.
031 - 5V UNDER VOLTAGE SD2.
034 - 1.5V UNDER VOLTAGE SD2.
035 + 6V UNDER VOLTAGE SD2.
036 + 12V UNDER VOLTAGE SD2.
040 + GATED POR SD2 YC960-044
H6A04
H6A02
H6E04
H6E02
J6B04
J6C02
+ POWER ON RESET SD2.
YC960-049 + 5V UNDER VOLTAGE SD2
YA405-108 + 5V UNDER VOLTAGE SD2
YA405-098 - 5V UNDER VOLTAGE SD2
YA405-097 - 1.5V UNDER VOLTAGE SD2
YA407-042 + 6V UNDER VOLTAGE SD2
YA407-064 + 12V UNDER VOLTAGE SD2
050 + 5V UNDER VOLTAGE BD A4.
051 + 6V UNDER VOLTAGE BD A4.
052 - 1.5V UNDER VOLTAGE BD A4.
053 - ENABLE BD A4.
054 - 1.5V UNDER VOLTAGE BD A2.
055 + 6V UNDER VOLTAGE BD A2.
056 + 5V UNDER VOLTAGE BD A2.
064 + BD A4 POWER ON RESET YA407-095
M6E04
N6C02
N6E04
L6D02
M6A04
M6D02
L1E04
N6B02
+ BD A4 POWER ON RESET.
YA405-016 + 5V UNDER VOLTAGE BD A4
YA405-093 + 6V UNDER VOLTAGE BD A4
YA405-085 - 1.5V UNDER VOLTAGE BD A4
YA405-010 - ENABLE BD A4
YA409-083 - 1.5V UNDER VOLTAGE BD A2
YA409-090 + 6V UNDER VOLTAGE BD A2
YA409-016 + 5V UNDER VOLTAGE BD A2
070 + 5V UNDER VOLTAGE BD A3.
071 + 6V UNDER VOLTAGE BD A3.
072 - 1.5V UNDER VOLTAGE BD A3.
073 - ENABLE BD A3
074 - 1.5V UNDER VOLTAGE BD A1.
075 + 6V UNDER VOLTAGE BD A1.
076 + 5V UNDER VOLTAGE BD A1.
084 + BD A3 POWER ON RESET YA407-108
M1E13
N1C11
N1E13
L1D11
M1A13
M1D11
L1E13
N1B11
+ BD A3 POWER ON RESET.
YA405-105 + 5V UNDER VOLTAGE BD A3
YA405-092 + 6V UNDER VOLTAGE BD A3
YA405-090 - 1.5V UNDER VOLTAGE BD A3
YA405-009 - ENABLE BD A3
YA409-087 - 1.5V UNDER VOLTAGE BD A1
YA409-089 + 6V UNDER VOLTAGE BD A1
YA409-103 + 5V UNDER VOLTAGE BD A1
100 + DISKETTE ACCESS 0.
101 + DISKETTE ACCESS 1.
102 + DISKETTE ACCESS 2.
103 + DISKETTE ACCESS 3.
104 + DISKETTE FILE DATA.
105 + DISKETTE HEAD ENGAGE.
106 + DISKETTE INDEX.
107 + DISKETTE WRITE DATA.
108 + DISKETTE ERASE GATE.
109 + DISKETTE WRITE GATE.
110 + DISKETTE LOW CURRENT.
B02
B04
B05
B06
B09
B10
B13
D02
D05
D06
D07
YA311-020 + DISKETTE ACCESS 0
YA311-022 + DISKETTE ACCESS 1
YA311-024 + DISKETTE ACCESS 2
YA311-026 + DISKETTE ACCESS 3
YA311-028 + DISKETTE FILE DATA
YA311-030 + DISKETTE HEAD ENGAGE
YA311-032 + DISKETTE INDEX
YA311-034 + DISKETTE WRITE DATA
YA311-036 + DISKETTE ERASE GATE
YA311-038 + DISKETTE WRITE GATE
YA311-040 + DISKETTE LOW CURRENT
EC HISTORY
09AUG84 881221
MAINT BD CONN Z2.Z3.Z4.Y4.V2
WITH ADDITIONAL
4 CHANNEL SWITCHES
SEQ YA009
PRINT 10JAN85 1438 PN 6315759
PAGE 28 OF 32
MACH 3880 HPN
PNAME MZ608X HEC A21801
LOC
IBM CORP
YA217 (C) COPYRIGHT IBM CORPORATION 1985



EC HISTORY

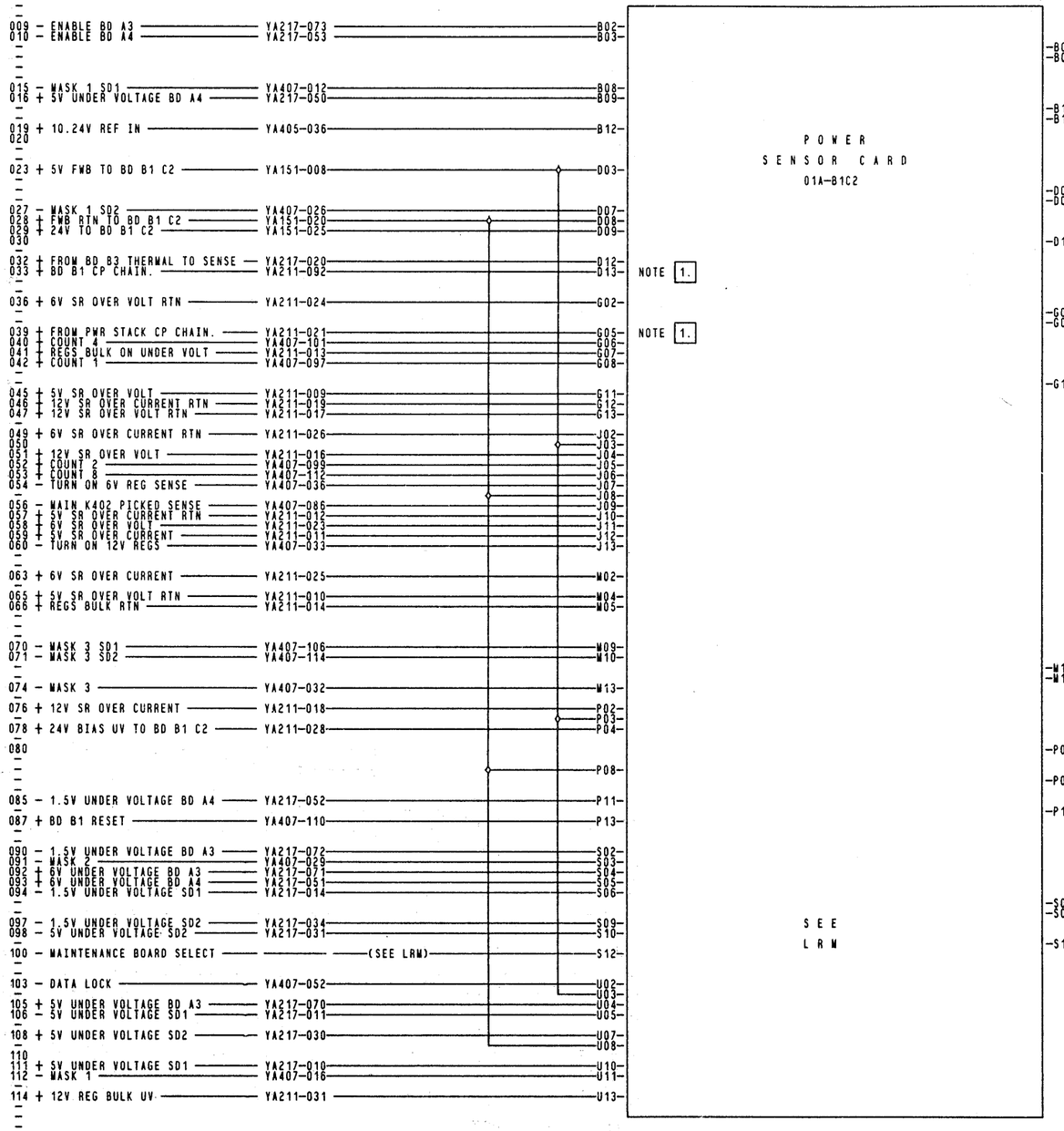
09AUG84 881221 DISKETTE

SEQ YA009
PRINT 10JAN85 1776 PN 6315759
PAGE 29 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC 0001

IBM CORP

YA311



EC HISTORY

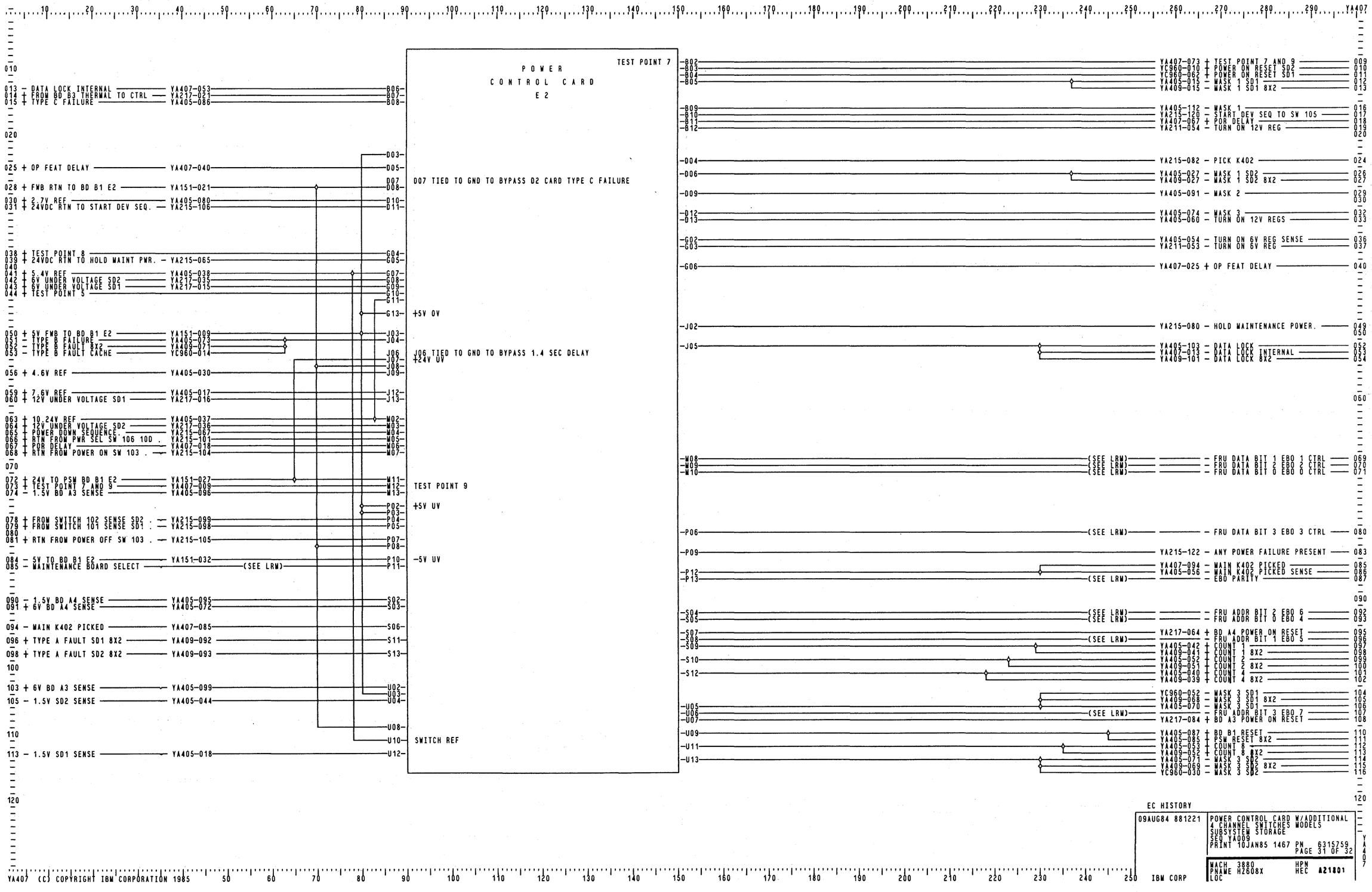
09AUG84 881221

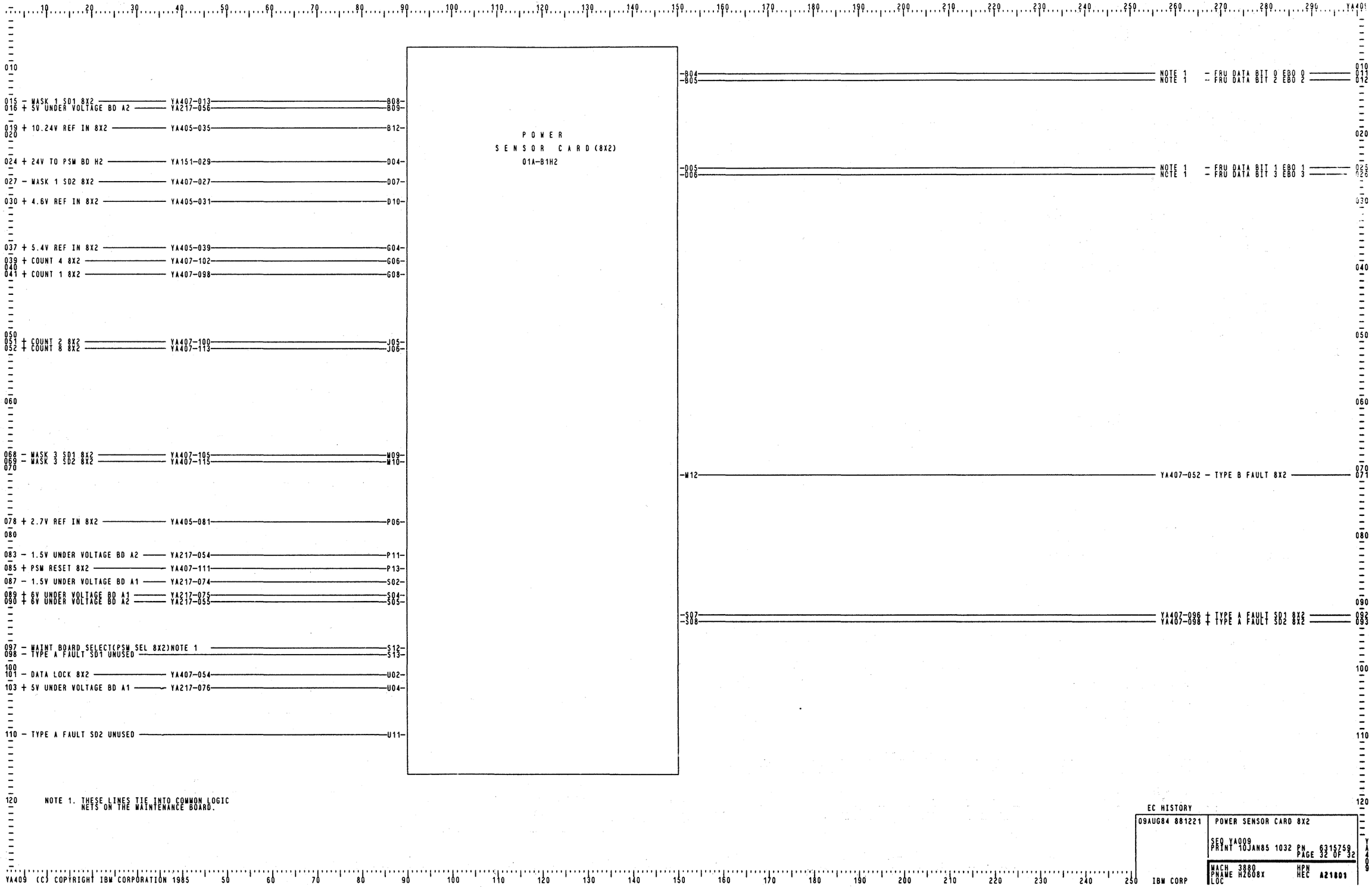
POWER SENSOR CARD
WITH ADDITIONAL 4
CHANNEL SWITCHES
SEQ YA009
PRINT 10JAN85 1053 PN 6315759
PAGE 30 OF 32

MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC

IBM CORP

YA405


POWER
CONTROL CARD
E2
TEST POINT 7
D07 TIED TO GND TO BYPASS D2 CARD TYPE C FAILURE
+5V OV
J06 TIED TO GND TO BYPASS 1.4 SEC DELAY
+24V UV
TEST POINT 9
+5V UV
-5V UV
SWITCH REF
013 - DATA LOCK INTERNAL — YA407-053 — B06
014 + FROM BD B3 THERMAL TO CTRL — YA217-021 — B07
015 + TYPE C FAILURE — YA405-086 — B08
025 + OP FEAT DELAY — YA407-040 — D05
028 + FWB RTN TO BD B1 E2 — YA151-021 — D08
030 + 2.7V REF — YA405-080 — D10
031 + 24VDC RTN TO START DEV SEQ. — YA215-108 — D11
038 + TEST POINT 8 — G04
039 + 24VDC RTN TO HOLD MAINT PWR. — YA215-065 — G05
041 + 5.4V REF — YA405-038 — G07
042 + 6V UNDER VOLTAGE SD2 — YA217-035 — G08
043 + 6V UNDER VOLTAGE SD1 — YA217-015 — G09
044 + TEST POINT 5 — G10
050 + 5V FWB TO BD B1 E2 — YA151-009 — J03
051 - TYPE B FAILURE — YA405-073 — J04
052 - TYPE B FAULT 8X2 — YA409-071
053 - TYPE B FAULT CACHE — YC960-014 — J06
056 + 4.6V REF — YA405-030 — J09
059 + 7.6V REF — YA405-017 — J12
060 + 12V UNDER VOLTAGE SD1 — YA217-016 — J13
063 + 10.24V REF — YA405-037 — M02
064 + 12V UNDER VOLTAGE SD2 — YA217-036 — M03
065 + POWER DOWN SEQUENCE. — YA215-067 — M04
066 + RTN FROM PWR SEL SW 106 10D . — YA215-101 — M05
067 + POR DELAY — YA407-018 — M06
068 + RTN FROM POWER ON SW 103 . — YA215-104 — M07
072 + 24V TO PSW BD B1 E2 — YA151-027 — M11
073 + TEST POINT 7 AND 9 — YA407-009 — M12
074 - 1.5V BD A3 SENSE — YA405-096 — M13
078 + FROM SWITCH 102 SENSE SD2 . — YA215-099 — P04
079 + FROM SWITCH 101 SENSE SD1 . — YA215-098 — P05
081 + RTN FROM POWER OFF SW 103 . — YA215-105 — P07
084 - 5V TO BD B1 E2 — YA151-032 — P10
085 - MAINTENANCE BOARD SELECT — (SEE LRM) — P11
090 - 1.5V BD A4 SENSE — YA405-095 — S02
091 + 6V BD A4 SENSE — YA405-072 — S03
094 - MAIN K402 PICKED — YA407-085 — S06
096 + TYPE A FAULT SD1 8X2 — YA409-092 — S11
098 + TYPE A FAULT SD2 8X2 — YA409-093 — S13
103 + 6V BD A3 SENSE — YA405-099 — U02
105 - 1.5V SD2 SENSE — YA405-044 — U04
113 - 1.5V SD1 SENSE — YA405-018 — U12
B02 — YA407-073 + TEST POINT 7 AND 9 — 009
B03 — YC960-010 + POWER ON RESET SD2 — 010
B04 — YC960-062 + POWER ON RESET SD1 — 011
B05 — YA405-015 - MASK 1 SD1 — 012
YA409-015 - MASK 1 SD1 8X2 — 013
B09 — YA405-112 - MASK 1 — 016
B10 — YA215-120 - START DEV SEQ TO SW 105 — 017
B11 — YA407-067 + POR DELAY — 018
B12 — YA211-054 - TURN ON 12V REG — 019
D04 — YA215-082 - PICK K402 — 024
D06 — YA405-027 - MASK 1 SD2 — 026
YA409-027 - MASK 1 SD2 8X2 — 027
D09 — YA405-091 - MASK 2 — 029
D12 — YA405-074 - MASK 3 — 032
D13 — YA405-060 - TURN ON 12V REGS — 033
G02 — YA405-054 - TURN ON 6V REG SENSE — 036
G03 — YA211-053 - TURN ON 6V REG — 037
G06 — YA407-025 + OP FEAT DELAY — 040
J02 — YA215-080 - HOLD MAINTENANCE POWER. — 049
J05 — YA405-103 - DATA LOCK — 052
YA407-013 - DATA LOCK INTERNAL — 053
YA409-101 - DATA LOCK 8X2 — 054
M08 — (SEE LRM) — - FRU DATA BIT 1 EBO 1 CTRL — 069
M09 — (SEE LRM) — - FRU DATA BIT 2 EBO 2 CTRL — 070
M10 — (SEE LRM) — - FRU DATA BIT 0 EBO 0 CTRL — 071
P06 — (SEE LRM) — - FRU DATA BIT 3 EBO 3 CTRL — 080
P09 — YA215-122 - ANY POWER FAILURE PRESENT — 083
P12 — YA407-094 - MAIN K402 PICKED — 085
P13 — YA405-056 - MAIN K402 PICKED SENSE — 086
(SEE LRM) — - EBO PARITY — 087
S04 — (SEE LRM) — - FRU ADDR BIT 2 EBO 6 — 092
S05 — (SEE LRM) — - FRU ADDR BIT 0 EBO 4 — 093
S07 — YA217-064 + BD A4 POWER ON RESET — 095
S08 — (SEE LRM) — - FRU ADDR BIT 1 EBO 5 — 096
S09 — YA405-042 + COUNT 1 — 097
YA409-041 + COUNT 1 8X2 — 098
S10 — YA405-052 + COUNT 2 — 099
YA409-051 + COUNT 2 8X2 — 100
S12 — YA405-040 + COUNT 4 — 101
YA409-039 + COUNT 4 8X2 — 102
YC960-052 - MASK 3 SD1 — 104
YA409-068 - MASK 3 SD1 8X2 — 105
U05 — YA405-070 - MASK 3 SD1 — 106
U06 — (SEE LRM) — - FRU ADDR BIT 3 EBO 7 — 107
U07 — YA217-084 + BD A3 POWER ON RESET — 108
U09 — YA405-087 + BD B1 RESET — 110
U11 — YA405-085 + PSW RESET 8X2 — 111
YA405-053 + COUNT 8 — 112
YA409-052 + COUNT 8 8X2 — 113
U13 — YA405-071 - MASK 3 SD2 — 114
YA409-069 - MASK 3 SD2 8X2 — 115
YC960-030 - MASK 3 SD2 — 116
EC HISTORY
09AUG84 881221
POWER CONTROL CARD W/ADDITIONAL 4 CHANNEL SWITCHES MODELS SUBSYSTEM STORAGE
SEQ YA009
PRINT 10JAN85 1467 PN 6315759
PAGE 31 OF 32
MACH 3880 HPN
PNAME HZ608X HEC A21801
LOC
IBM CORP
YA407
YA407 (C) COPYRIGHT IBM CORPORATION 1985



NOTE 1. THESE LINES TIE INTO COMMON LOGIC NETS ON THE MAINTENANCE BOARD.

EC HISTORY

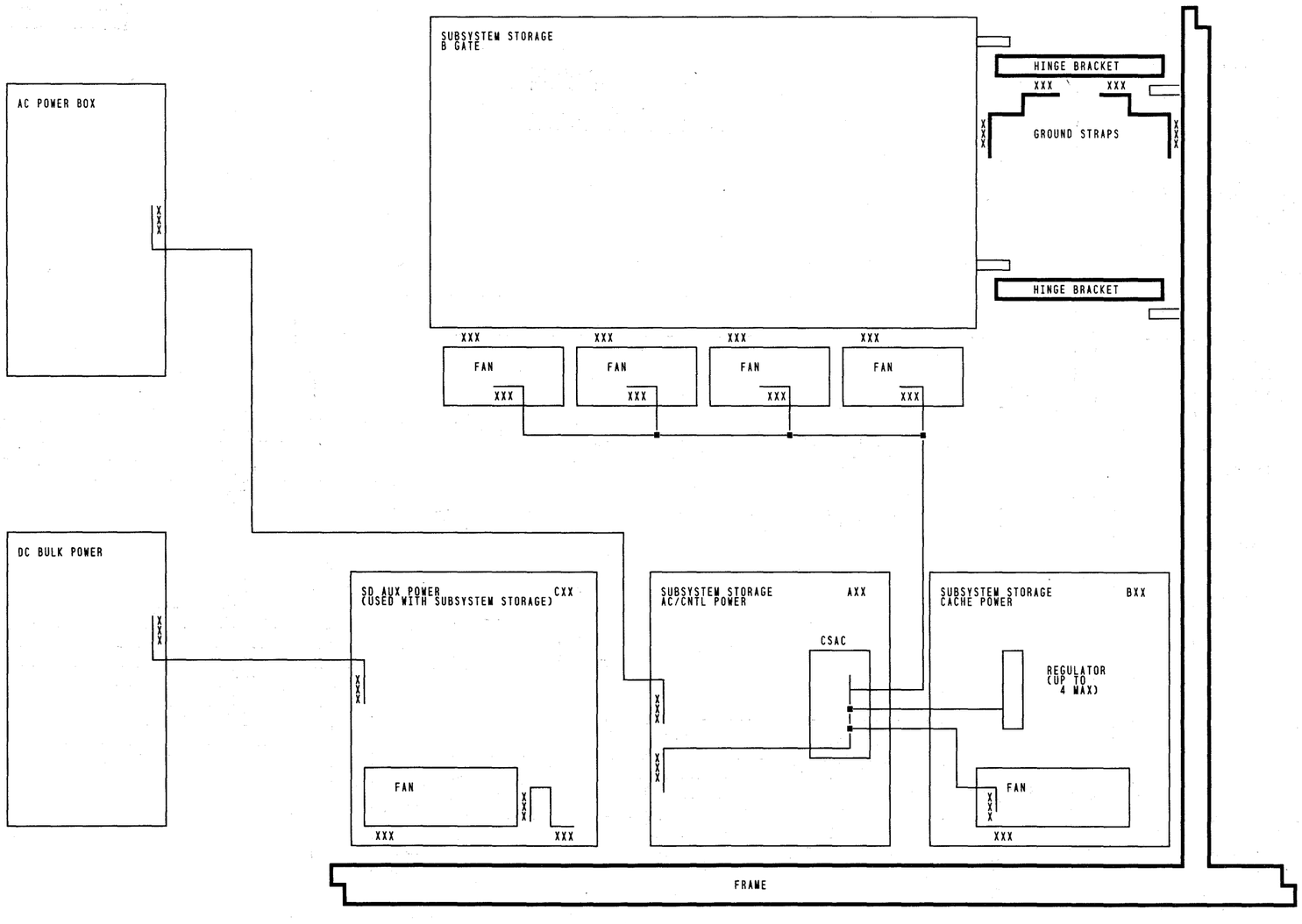
09AUG84 881221	POWER SENSOR CARD 8X2
	SEQ YA009 PRINT 10JAN85 1032 PN 6315759 PAGE 32 OF 32
	MACH 3880 HPN PNAME H2608X HEC A21801 LOC

IBM CORP

YA409

NOTES

1. XXX DENOTES EXTERNAL STAR WASHER.



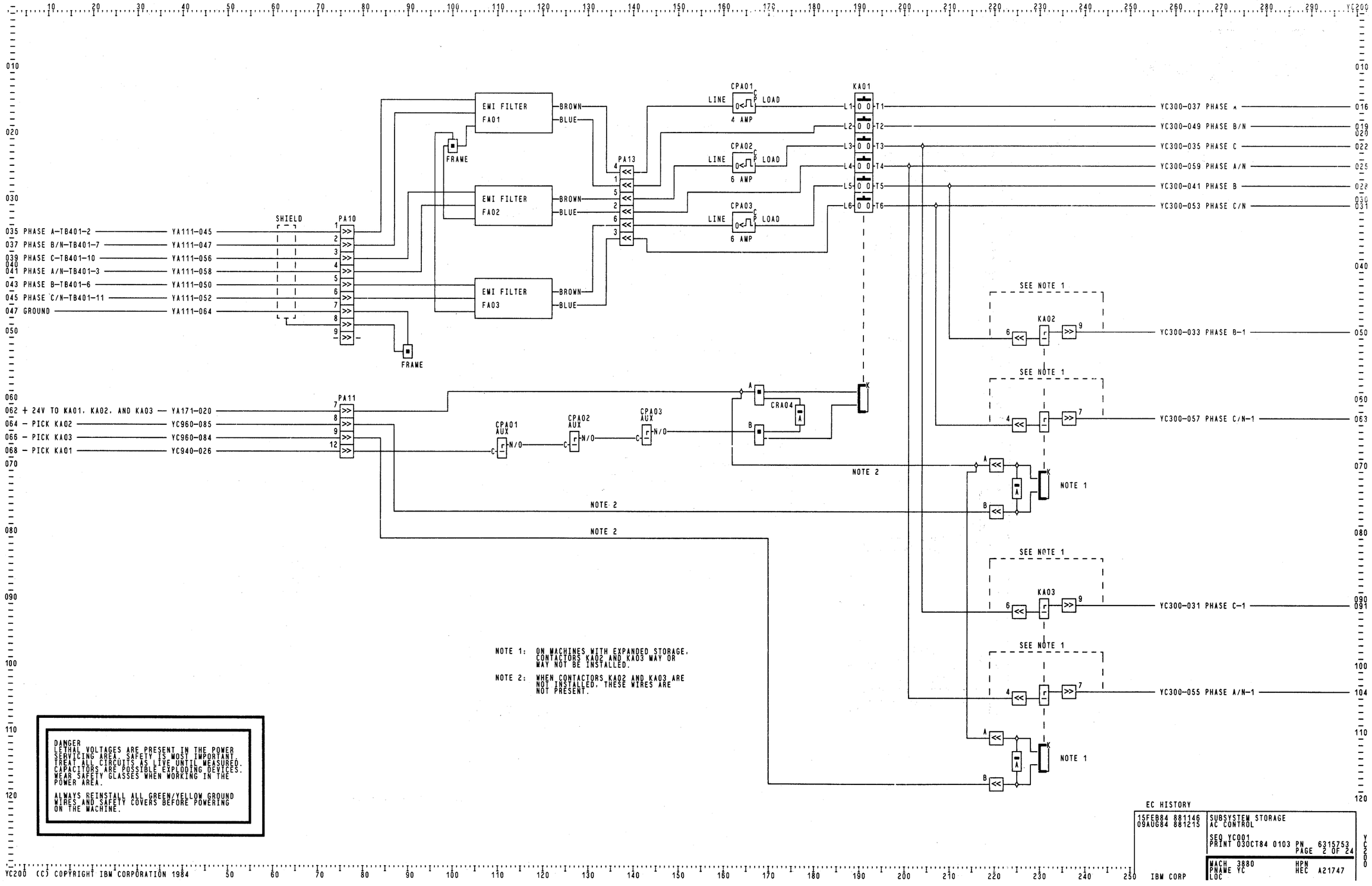
EC HISTORY

15FEB84 881146	SUBSYSTEM
09AUG84 881215	BLOCK DIAGRAM GROUNDING
	SCHEMATIC
	SEQ YC001
	PRINT 030CT84 0029 PN 6315753
	PAGE 1 OF 24

MACH 3880	HPN
PNAME YC	HEC A21747
LOC	

IBM CORP

YC110



NOTE 1: ON MACHINES WITH EXPANDED STORAGE, CONTACTORS KA02 AND KA03 MAY OR MAY NOT BE INSTALLED.

NOTE 2: WHEN CONTACTORS KA02 AND KA03 ARE NOT INSTALLED, THESE WIRES ARE NOT PRESENT.

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146
09AUG84 881215

SUBSYSTEM STORAGE
AC CONTROL

SEQ YC001
PRINT 030CT84 0103 PN 6315753
PAGE 2 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC200

IBM CORP

CSAC CARD ASM

PHASE C-1 — YC200-091
PHASE B-1 — YC200-050
PHASE C — YC200-022
PHASE A — YC200-016
PHASE B — YC200-028
FRAME BOTTOM TRAY
PHASE B/N — YC200-019
PHASE C/N — YC200-031
PHASE A/N-1 — YC200-104
PHASE C/N-1 — YC200-063
PHASE A/N — YC200-025

PA01 JA01
1 C1
2 B1
3 C
4 A
5
6 B
7 G
8 G
9
10 B/N
11
12 C/N
13 A/N1
14 C/N1
15 A/N

JA02 — 200/208V
A
B/N
G

JA03 — 220/380V
A
B/N
G

JA04 — 230/240/400/415V
A
B/N
G

NOTE:

PA02 IS PLUGGED INTO JA02, JA03, OR JA04 DEPENDING ON THE LINE SERVICE VOLTAGE.

PA02
1 YC400-045 200/208V TAP — 015
2 YC400-043 220/380V TAP — 017
3 YC400-041 230/240/400/415V TAP — 019
4 YC400-056 COMMON TAP — 020 021
5
6 YC400-068 GROUND — 023

JA05 PA05
C1 — 1 YC600-027 STORAGE REGB30 A/C INPUT — 059 060
G — 2 YC600-029 STORAGE REGB30 A/C GROUND — 061
A/N1 — 3 YC600-031 STORAGE REGB30 A/C INPUT — 063

SEE NOTE 1
JA06 PA06/PA07
C1 — 1 YC620-027 STORAGE REGB20 A/C INPUT — 069 070
G — 2 YC620-029 STORAGE REGB20 A/C GROUND — 071
A/N1 — 3 YC620-031 STORAGE REGB20 A/C INPUT — 073

JA07 PA07
B1 — 1 YC700-027 STORAGE REGB40 A/C INPUT — 079 080
G — 2 YC700-029 STORAGE REGB40 A/C GROUND — 081
C/N1 — 3 YC700-031 STORAGE REGB40 A/C INPUT — 083

THIS CABLE INSTALLED FOR STORAGE INCREMENTS OF 24 MB AND 32 MB MACHINES WITHOUT EXPANDED STORAGE ONLY.

JA08 PA08
B1 — 1 YC720-027 STORAGE REGB10 A/C INPUT — 089 090
G — 2 YC720-029 STORAGE REGB10 A/C GROUND — 091
C/N1 — 3 YC720-031 STORAGE REGB10 A/C INPUT — 093

THIS CABLE INSTALLED FOR STORAGE INCREMENT OF 32 MB MACHINES WITHOUT EXPANDED STORAGE ONLY.

JA09 PA09
B — 1 YC320-081 B GATE FANS A/C INPUT (B) — 099 100
G — 2 YC320-083 B GATE FANS A/C GROUND — 101
YC320-034 B BOX FAN A/C GROUND — 102
C — 3 YC320-085 B GATE FANS A/C INPUT (C) — 103
YC320-032 B BOX FAN A/C INPUT (C) — 104
C/N — 4 YC320-087 B GATE FANS A/C INPUT (C/N) — 105
5
A/N — 6 YC320-091 B GATE FANS A/C INPUT (A/N) — 109 110
YC320-036 B BOX FAN A/C INPUT (A/N) — 110

NOTE: 1. MACHINES WITHOUT EXPANDED STORAGE, THIS CABLE (PLUG PA06) IS INSTALLED INTO JA06 FOR STORAGE INCREMENTS ABOVE 8 MB.

MACHINES WITH EXPANDED STORAGE, THIS CABLE (PLUG PA07) IS INSTALLED INTO JA07 FOR STORAGE INCREMENTS ABOVE 16 MB.

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY
15FEB84 881146
09AUG84 881215

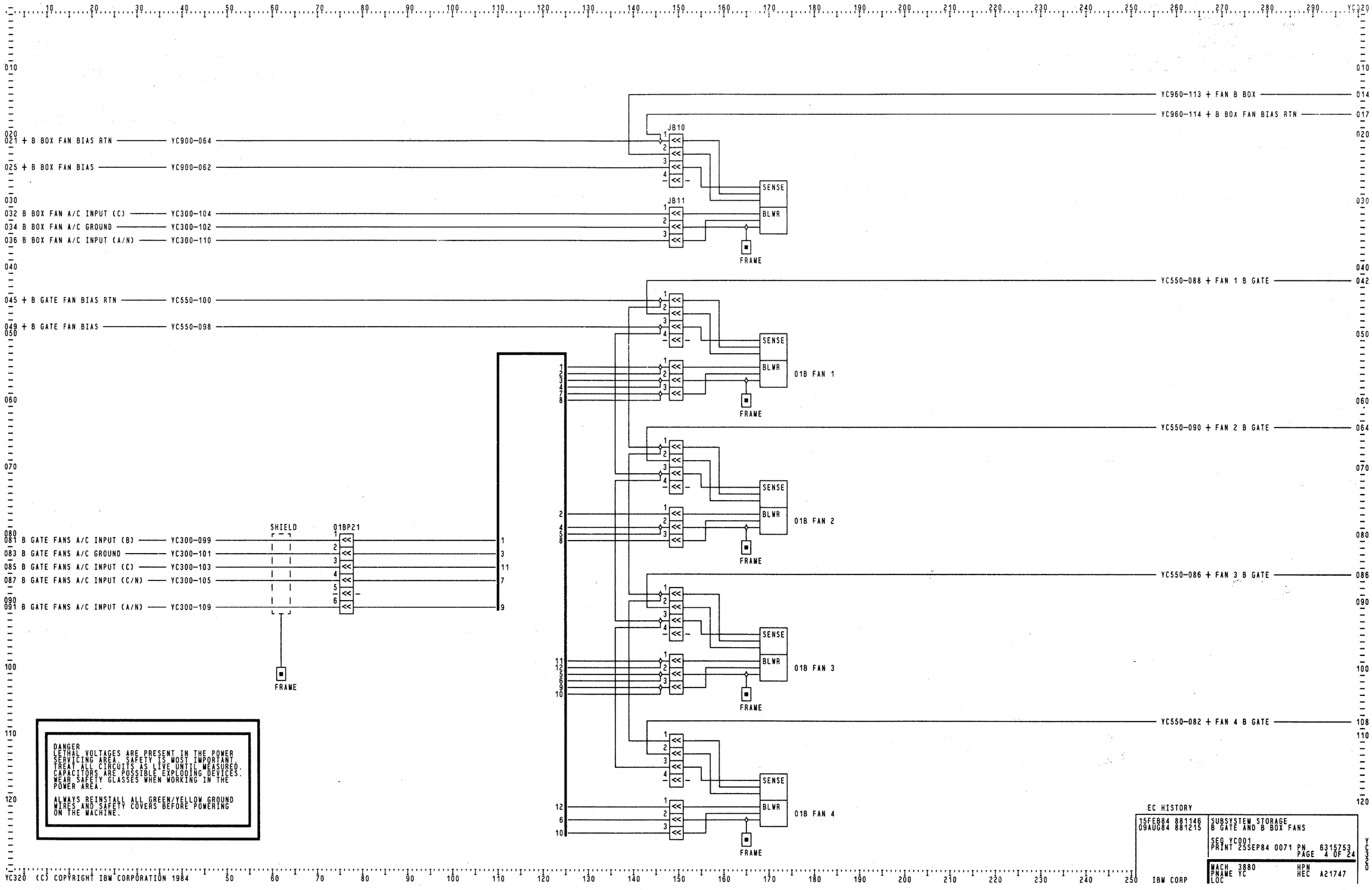
SUBSYSTEM STORAGE
AC POWER DISTRUBUTION

SEQ YC001
PRINT 030CT84 0091 PN 6315753
PAGE 3 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC300

IBM CORP



DANGER
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ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146
09AUG84 881215

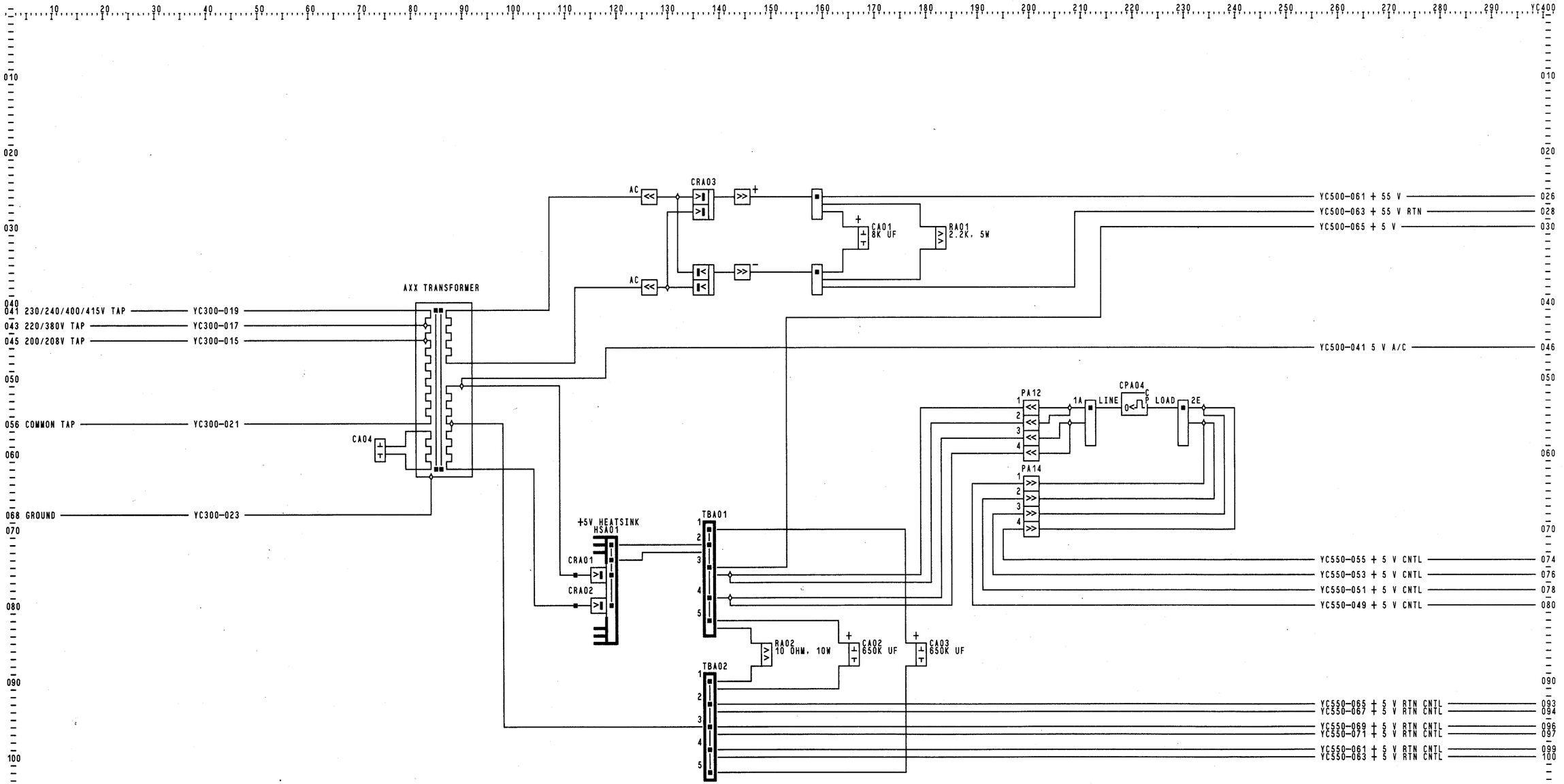
SUBSYSTEM STORAGE
B GATE AND B BOX FANS

SEQ YC001
PRINT 25SEP84 0071 PN 6315753
PAGE 4 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC320

IBM CORP



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

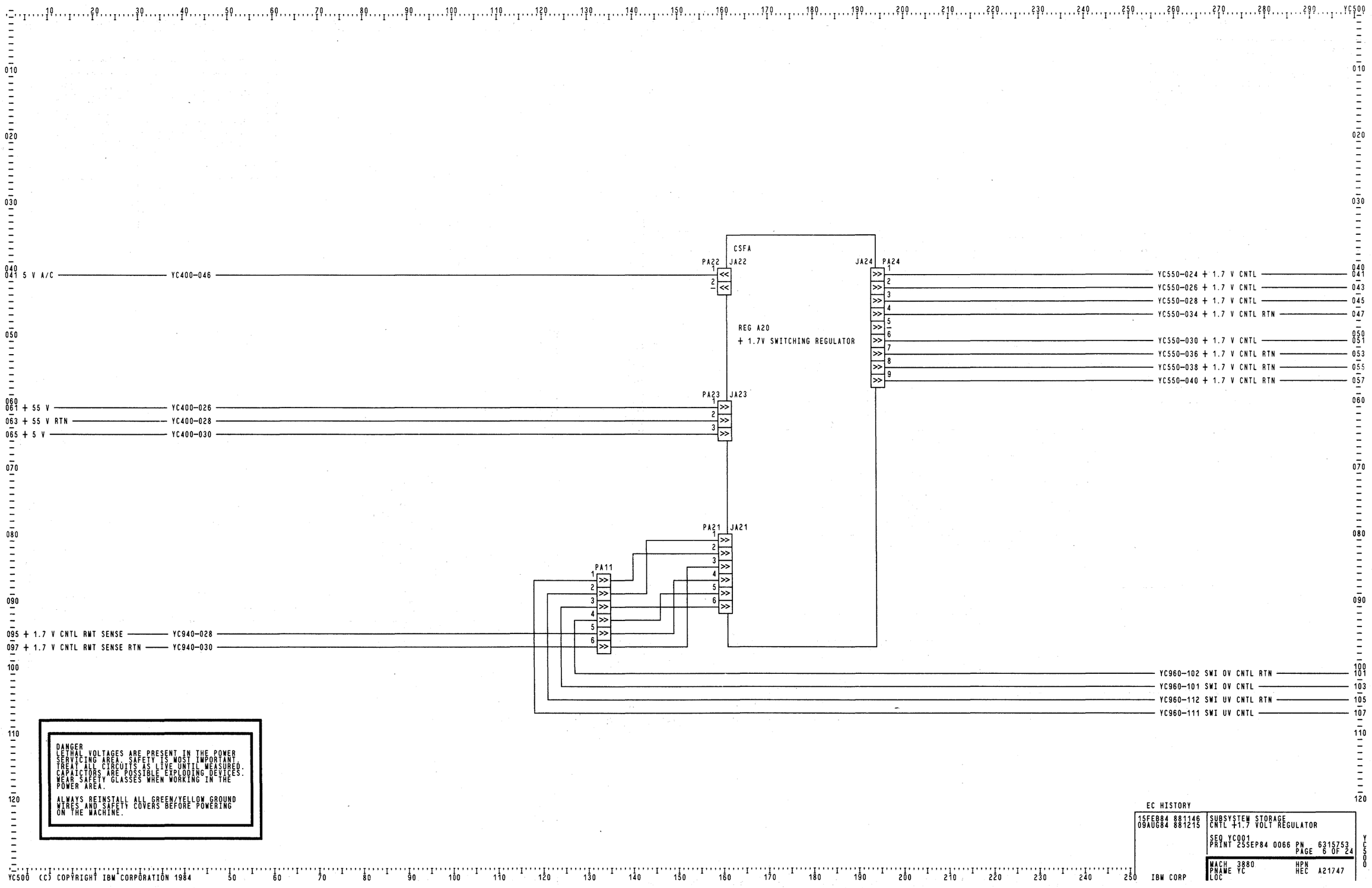
15FEB84 881146 09AUG84 881215	SUBSYSTEM STORAGE CNTL DC BULK SUPPLY

SEQ YC001
PRINT 25SEP84 0096 PN 6315753
PAGE 5 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC400

IBM CORP



DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPAICTORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

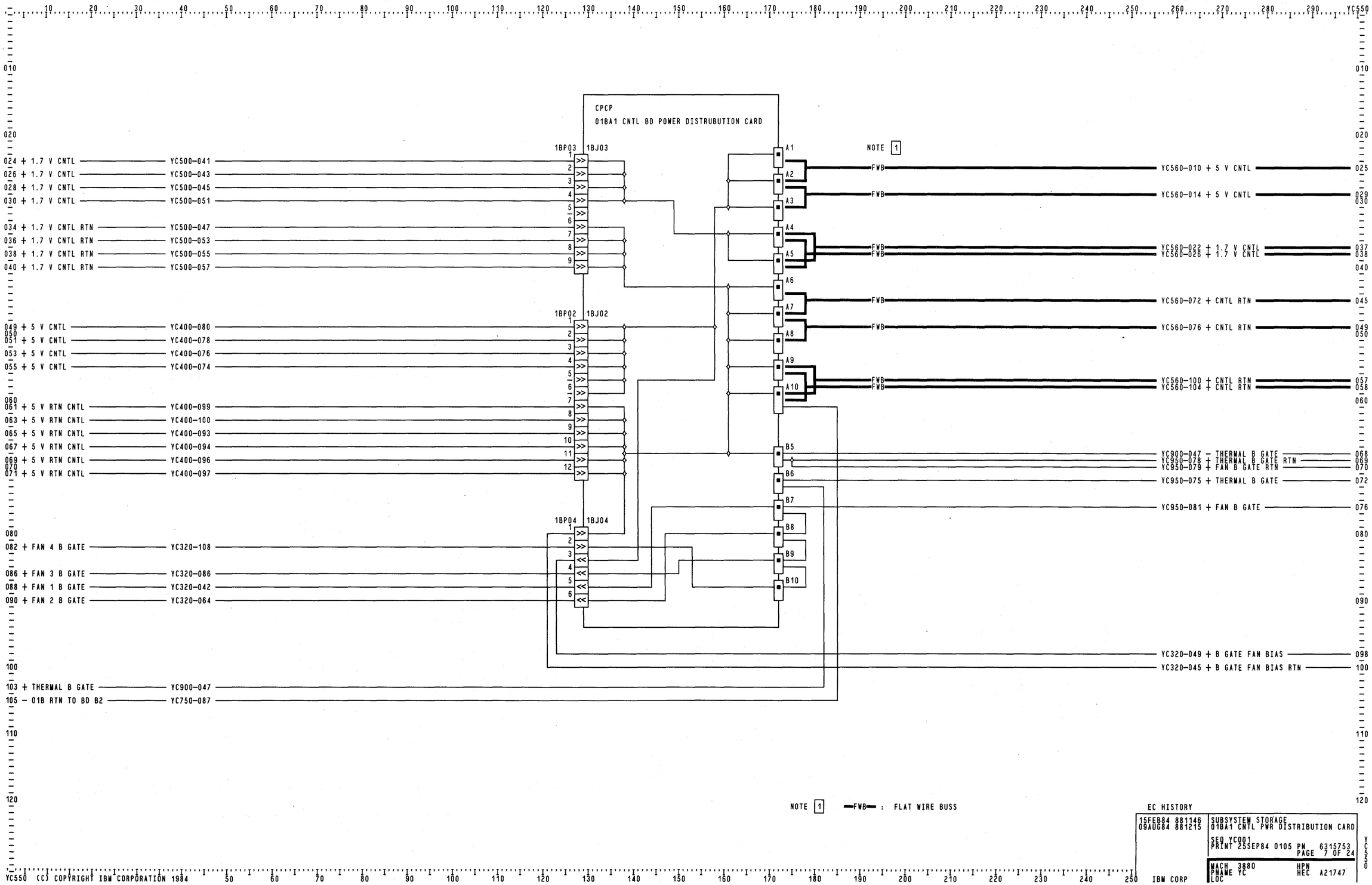
ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

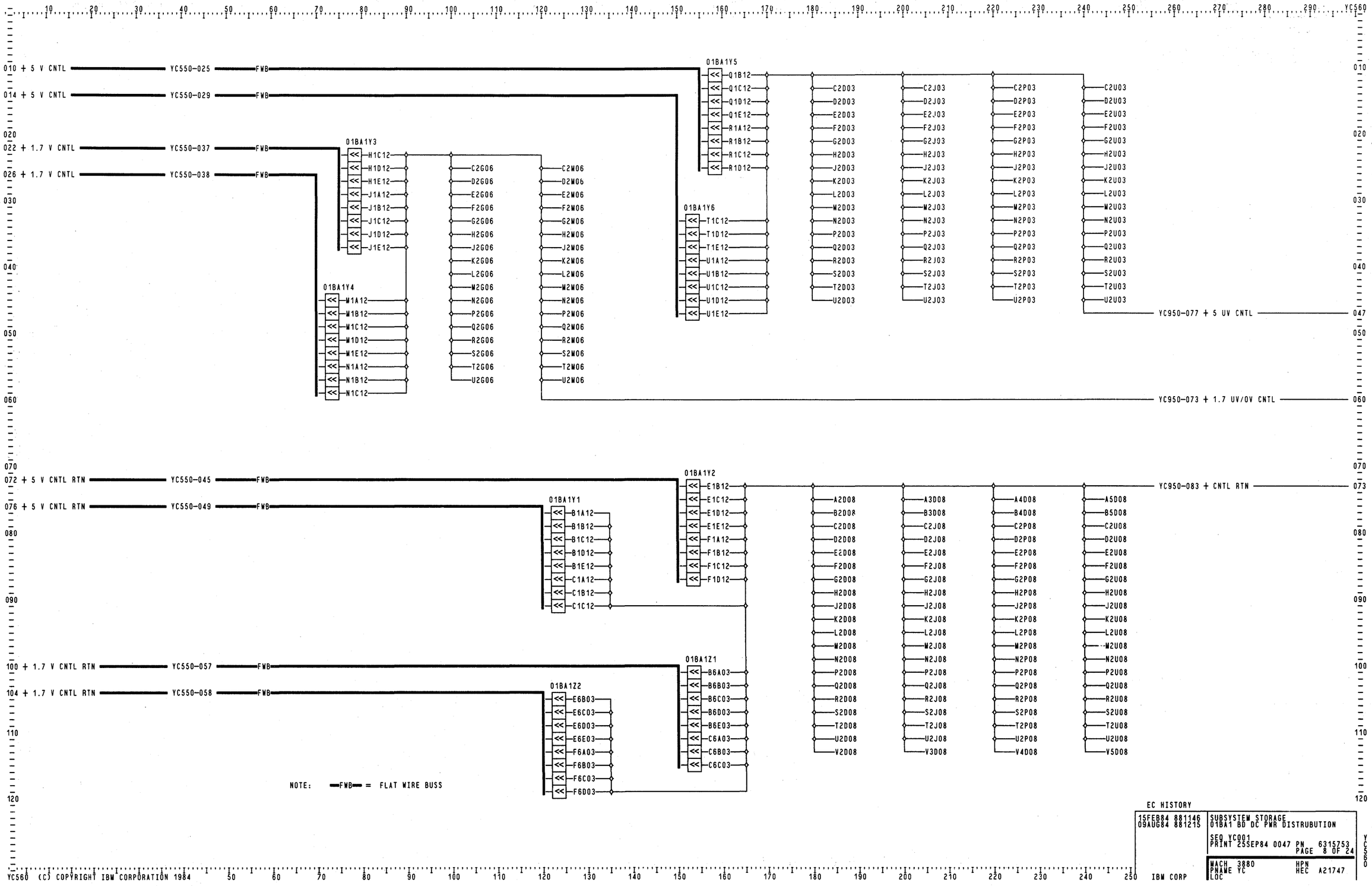
EC HISTORY
15FEB84 881146
09AUG84 881215

SUBSYSTEM STORAGE
CNTL +1.7 VOLT REGULATOR

SEQ YC001
PRINT 25SEP84 0066 PN 6315753
PAGE 6 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC


CPCP
01BA1 CNTL BD POWER DISTRUBUTION CARD
1BP03
1BJ03
1BP02
1BJ02
1BP04
1BJ04
+ 1.7 V CNTL — YC500–041
+ 1.7 V CNTL — YC500–043
+ 1.7 V CNTL — YC500–045
+ 1.7 V CNTL — YC500–051
+ 1.7 V CNTL RTN — YC500–047
+ 1.7 V CNTL RTN — YC500–053
+ 1.7 V CNTL RTN — YC500–055
+ 1.7 V CNTL RTN — YC500–057
+ 5 V CNTL — YC400–080
+ 5 V CNTL — YC400–078
+ 5 V CNTL — YC400–076
+ 5 V CNTL — YC400–074
+ 5 V RTN CNTL — YC400–099
+ 5 V RTN CNTL — YC400–100
+ 5 V RTN CNTL — YC400–093
+ 5 V RTN CNTL — YC400–094
+ 5 V RTN CNTL — YC400–096
+ 5 V RTN CNTL — YC400–097
+ FAN 4 B GATE — YC320–108
+ FAN 3 B GATE — YC320–086
+ FAN 1 B GATE — YC320–042
+ FAN 2 B GATE — YC320–064
+ THERMAL B GATE — YC900–047
– 01B RTN TO BD B2 — YC750–087
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
B5
B6
B7
B8
B9
B10
NOTE 1
FWB
YC560–010 + 5 V CNTL
YC560–014 + 5 V CNTL
YC560–022 + 1.7 V CNTL
YC560–026 + 1.7 V CNTL
YC560–072 + CNTL RTN
YC560–076 + CNTL RTN
YC560–100 + CNTL RTN
YC560–104 + CNTL RTN
YC900–047 – THERMAL B GATE
YC950–078 + THERMAL B GATE RTN
YC950–079 + FAN B GATE RTN
YC950–075 + THERMAL B GATE
YC950–081 + FAN B GATE
YC320–049 + B GATE FAN BIAS
YC320–045 + B GATE FAN BIAS RTN
NOTE 1 FWB : FLAT WIRE BUSS
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
01BA1 CNTL PWR DISTRIBUTION CARD
SEQ YC001
PRINT 25SEP84 0105 PN 6315753
PAGE 7 OF 24
MACH 3880
PNAME YC
LOC
HPN
HEC A21747
YC550
IBM CORP
YC550 (C) COPYRIGHT IBM CORPORATION 1984



EC HISTORY

15FEB84 881146
09AUG84 881215

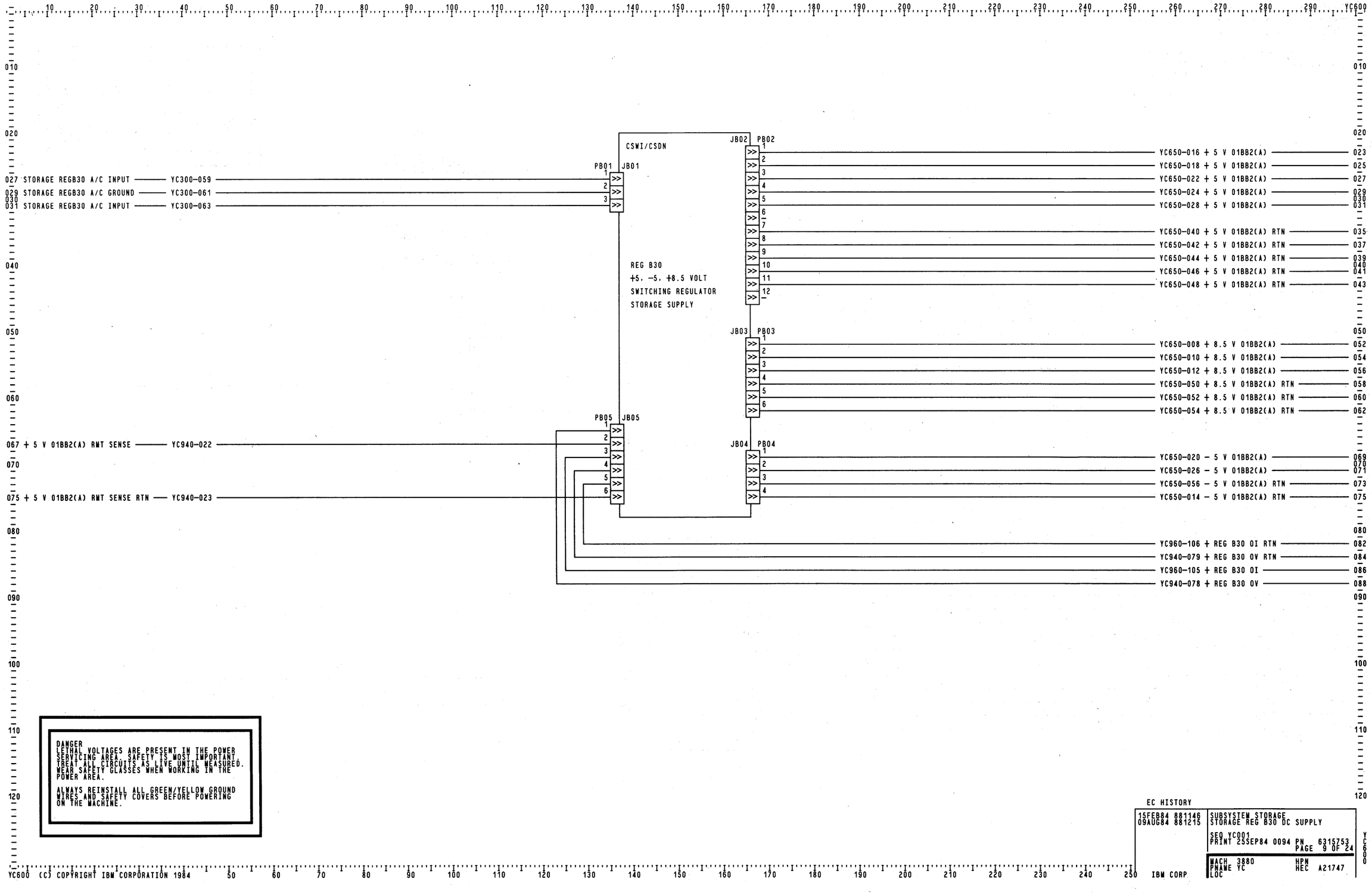
SUBSYSTEM STORAGE
01BA1 BD DC PWR DISTRUBUTION

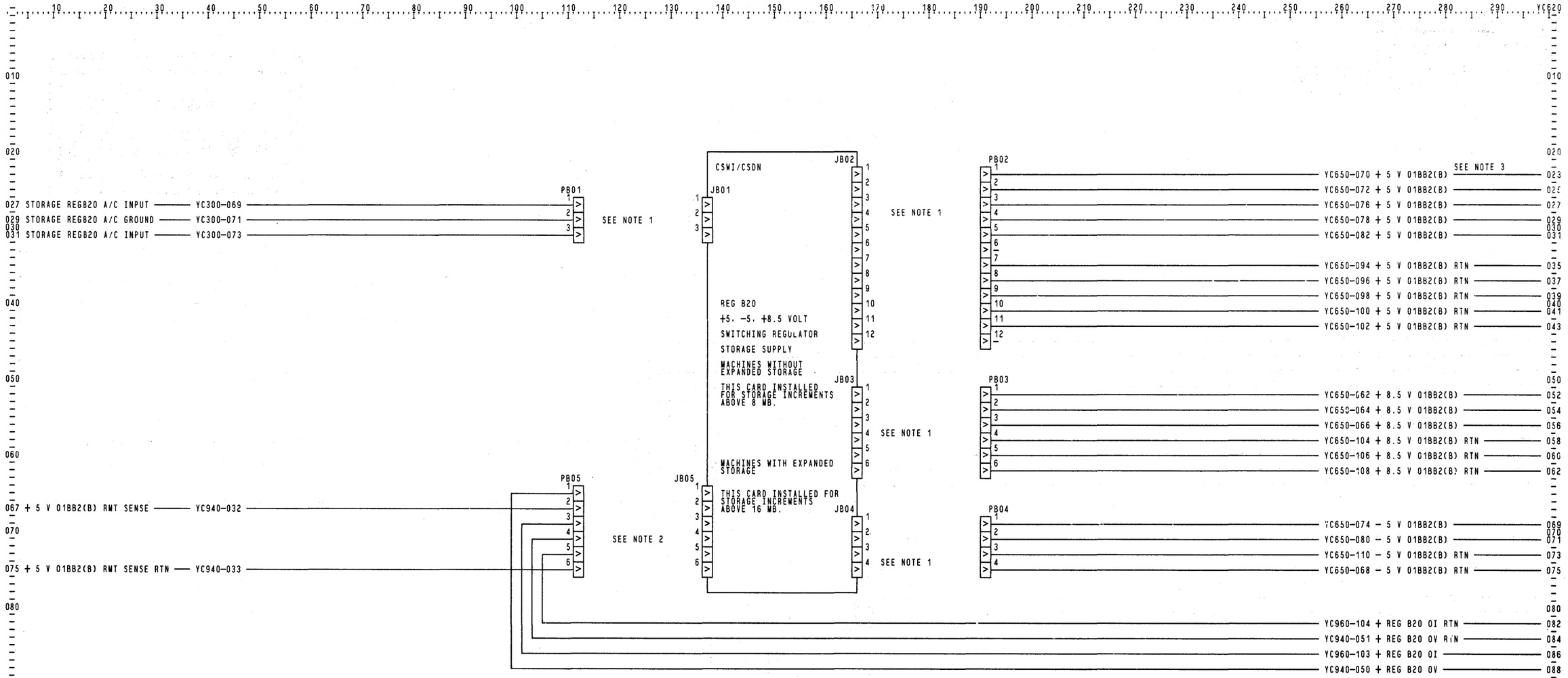
SEQ YC001
PRINT 25SEP84 0047 PN 6315753
PAGE 8 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YCS60

IBM CORP


CSWI/CSDN
REG B30
+5, -5, +8.5 VOLT
SWITCHING REGULATOR
STORAGE SUPPLY
PB01 JB01
027 STORAGE REGB30 A/C INPUT — YC300-059
029 STORAGE REGB30 A/C GROUND — YC300-061
031 STORAGE REGB30 A/C INPUT — YC300-063
JB02 PB02
YC650-016 + 5 V 01BB2(A) — 023
YC650-018 + 5 V 01BB2(A) — 025
YC650-022 + 5 V 01BB2(A) — 027
YC650-024 + 5 V 01BB2(A) — 029
YC650-028 + 5 V 01BB2(A) — 031
YC650-040 + 5 V 01BB2(A) RTN — 035
YC650-042 + 5 V 01BB2(A) RTN — 037
YC650-044 + 5 V 01BB2(A) RTN — 039
YC650-046 + 5 V 01BB2(A) RTN — 041
YC650-048 + 5 V 01BB2(A) RTN — 043
JB03 PB03
YC650-008 + 8.5 V 01BB2(A) — 052
YC650-010 + 8.5 V 01BB2(A) — 054
YC650-012 + 8.5 V 01BB2(A) — 056
YC650-050 + 8.5 V 01BB2(A) RTN — 058
YC650-052 + 8.5 V 01BB2(A) RTN — 060
YC650-054 + 8.5 V 01BB2(A) RTN — 062
PB05 JB05
067 + 5 V 01BB2(A) RMT SENSE — YC940-022
075 + 5 V 01BB2(A) RMT SENSE RTN — YC940-023
JB04 PB04
YC650-020 - 5 V 01BB2(A) — 069
YC650-026 - 5 V 01BB2(A) — 071
YC650-056 - 5 V 01BB2(A) RTN — 073
YC650-014 - 5 V 01BB2(A) RTN — 075
YC960-106 + REG B30 OI RTN — 082
YC940-079 + REG B30 OV RTN — 084
YC960-105 + REG B30 OI — 086
YC940-078 + REG B30 OV — 088
DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.
ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
STORAGE REG B30 DC SUPPLY
SEQ YC001
PRINT 25SEP84 0094 PN 6315753
PAGE 9 OF 24
MACH 3880 HPN
PNAME YC HEC A21747
LOC
YC600 (C) COPYRIGHT IBM CORPORATION 1984
IBM CORP
YC600



NOTE:
1. MACHINES WITH EXPANDED STORAGE.
   THIS CABLE INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB.

   MACHINES WITHOUT EXPANDED STORAGE.
   THIS CABLE INSTALLED FOR STORAGE INCREMENTS ABOVE 8 MB.
2. MACHINES WITH EXPANDED STORAGE.
   THIS CABLE PLUGGED FOR STORAGE INCREMENTS ABOVE 16 MB.

   MACHINES WITHOUT EXPANDED STORAGE.
   THIS CABLE PLUGGED FOR STORAGE INCREMENTS ABOVE 8 MB.
3. (B) INDICATES THE B HALF OF THE STORAGE BOARD.

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146 09AUG84 881215	SUBSYSTEM STORAGE STORAGE REG B20 DC SUPPLY

SEQ YC001
PRINT 25SEP84 0094 PN 6315753
PAGE 10 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC620

IBM CORP

008 + 8.5 V 01BB2(A) — YC600-052
010 + 8.5 V 01BB2(A) — YC600-054
012 + 8.5 V 01BB2(A) — YC600-056
014 - 5 V 01BB2(A) RTN — YC600-075
016 + 5 V 01BB2(A) — YC600-023
018 + 5 V 01BB2(A) — YC600-025
020 - 5 V 01BB2(A) — YC600-069
022 + 5 V 01BB2(A) — YC600-027
024 + 5 V 01BB2(A) — YC600-029
026 - 5 V 01BB2(A) — YC600-071
028 + 5 V 01BB2(A) — YC600-031

040 + 5 V 01BB2(A) RTN — YC600-035
042 + 5 V 01BB2(A) RTN — YC600-037
044 + 5 V 01BB2(A) RTN — YC600-039
046 + 5 V 01BB2(A) RTN — YC600-041
048 + 5 V 01BB2(A) RTN — YC600-043
050 + 8.5 V 01BB2(A) RTN — YC600-058
052 + 8.5 V 01BB2(A) RTN — YC600-060
054 + 8.5 V 01BB2(A) RTN — YC600-062
056 - 5 V 01BB2(A) RTN — YC600-073
057 - 01B RTN TO BD B2 — YA151-023

01BP12

062 + 8.5 V 01BB2(B) — YC620-052
064 + 8.5 V 01BB2(B) — YC620-054
066 + 8.5 V 01BB2(B) — YC620-056
068 - 5 V 01BB2(B) RTN — YC620-075
070 + 5 V 01BB2(B) — YC620-023
072 + 5 V 01BB2(B) — YC620-025
074 - 5 V 01BB2(B) — YC620-069
076 + 5 V 01BB2(B) — YC620-027
078 + 5 V 01BB2(B) — YC620-029
080 - 5 V 01BB2(B) — YC620-071
082 + 5 V 01BB2(B) — YC620-031

SEE NOTE 1

01BP08

094 + 5 V 01BB2(B) RTN — YC620-035
096 + 5 V 01BB2(B) RTN — YC620-037
098 + 5 V 01BB2(B) RTN — YC620-039
100 + 5 V 01BB2(B) RTN — YC620-041
102 + 5 V 01BB2(B) RTN — YC620-043
104 + 8.5 V 01BB2(B) RTN — YC620-058
106 + 8.5 V 01BB2(B) RTN — YC620-060
108 + 8.5 V 01BB2(B) RTN — YC620-062
110 - 5 V 01BB2(B) RTN — YC620-073

SEE NOTE 1

NOTE: 1. MACHINES WITHOUT EXPANDED STORAGE.
THIS CABLE IS INSTALLED FOR STORAGE INCREMENTS ABOVE 8 MB.

MACHINES WITH EXPANDED STORAGE.
THIS CABLE IS INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB.

2. THESE CABLES ARE INSTALLED FOR:

A. MACHINES WITHOUT EXPANDED STORAGE WITH LESS THAN 16 MB OF STORAGE.

B. MACHINES WITH EXPANDED STORAGE WITH LESS THAN 32 MB OF STORAGE.

01BP20 01BJ20 01BJ19

SEE NOTE 2

01BP16 01BJ16 01BJ15

CPWP CARD

ONE HALF OF THE 01BB2 BOARD POWER DISTRIBUTION

SEE YC750 FOR 01B-A2 BOARD

SEE NOTE 2

01BP19

SEE NOTE 2

01BP15

01BJ12 01BJ11

SEE NOTE 2

01BP11

01BJ08

01BJ07

CPWP CARD

ONE HALF OF THE 01B2 BOARD POWER DISTRIBUTION

SEE YC750 FOR 01B-A2 BOARD

SEE NOTE 2

01BP07

D8 D9 D10 D11 D12 D13 D14

D1 D2 D3 D4 D5 D6 D7

FWB — YC660-069 + 01BB2(A) RTN — SEE NOTE 3

SFWB — YC660-077 + 01BB2(A) RTN
YC750-058 - 01B RTN TO BD B2

SFWB — YC660-116 - 5 V 01BB2(A)

SFWB — YC660-012 + 5 V 01BB2(A)

SFWB — YC660-016 + 8.5 V 01BB2(A)

FWB — YC660-094 + 01BB2(B) RTN — SEE NOTE 4

SFWB — YC660-102 + 01BB2(B) RTN

SFWB — YC660-120 - 5 V 01BB2(B)

SFWB — YC660-041 + 5 V 01BB2(B)

SFWB — YC660-045 + 8.5 V 01BB2(B)

FWB = FLAT WIRE BUSS

SFWB = SPLIT FLAT WIRE BUSS

NOTE: 3. (A) INDICATES THE A HALF OF THE STORAGE BOARD.

4. (B) INDICATES THE B HALF OF THE STORAGE BOARD.

EC HISTORY

15FEB84 881146 09AUG84 881215	SUBSYSTEM STORAGE 01BB2 POWER DISTRIBUTION CARD

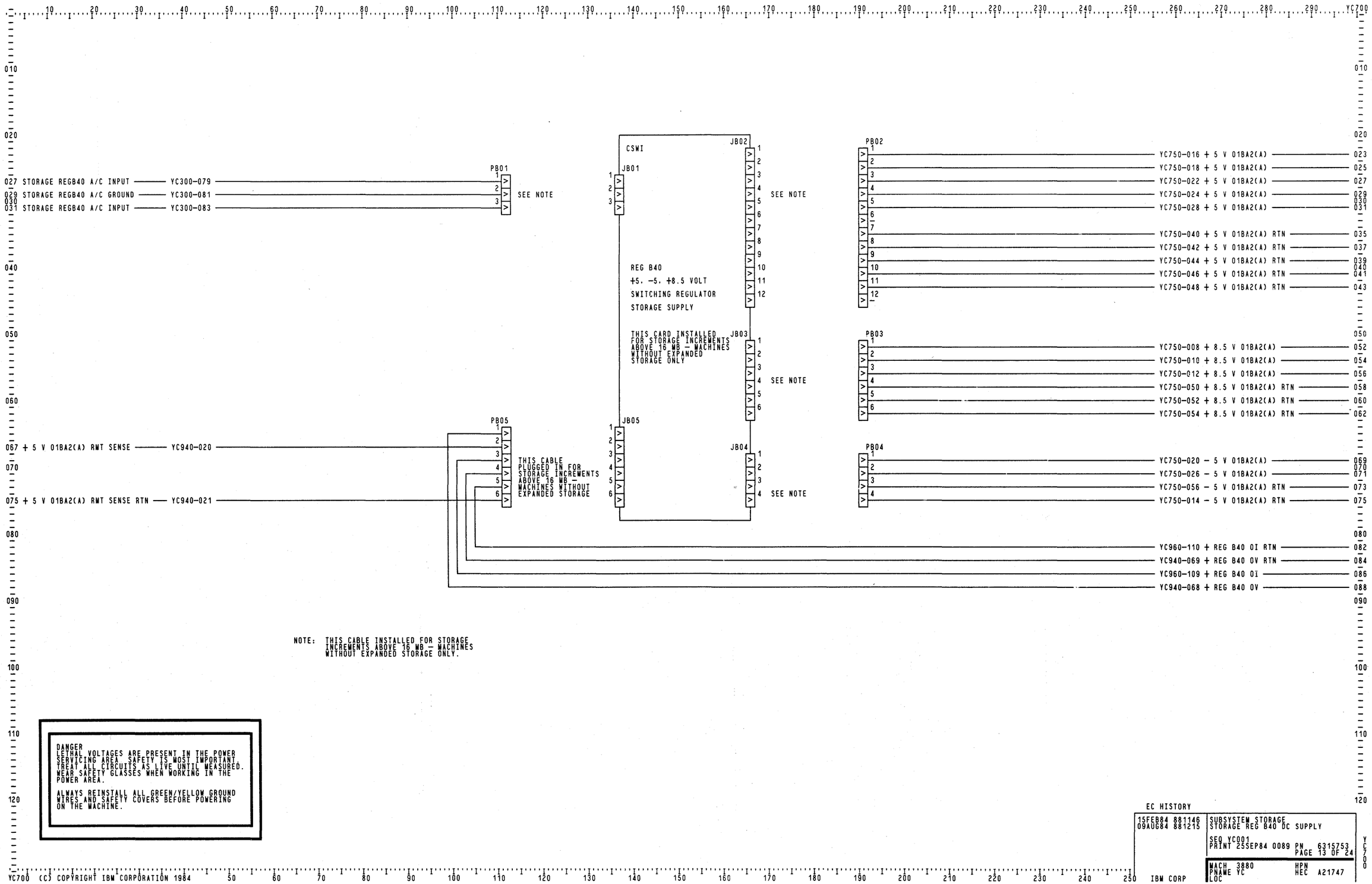
SEQ YC001
PRINT 25SEP84 0121 PN 6315753
PAGE 11 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

IBM CORP

YC650


+ 5 V 01BB2(A)
YC650-050
SFWB
+ 8.5 V 01BB2(A)
YC650-053
SFWB
01BB2Y1
B1A12
B1B12
B1C12
B1D12
B2B11
C2B11
D2B11
E2B11
F2B11
G2B11
H2B11
J2B11
B2G11
C2G11
D2G11
E2G11
F2G11
G2G11
H2G11
J2G11
B2M11
C2M11
D2M11
E2M11
F2M11
G2M11
H2M11
J2M11
B2S11
C2S11
D2S11
E2S11
F2S11
G2S11
H2S11
J2S11
01BB2Y1
B1E12
C1A12
C1B12
C1C12
B2B13
C2B13
D2B13
E2B13
F2B13
G2B13
H2B13
J2B13
A2D03
B2D03
C2D03
D2D03
E2D03
F2D03
G2D03
H2D03
J2D03
K2D03
B3G06
C2G06
D2G06
E2G06
F2G06
G2G06
H2G06
J2G06
A3D03
B2J03
C2J03
D2J03
E2J03
F2J03
G2J03
H2J03
J2J03
K2J03
B2M13
C2M13
D2M13
E2M13
F2M13
G2M13
H2M13
J2M13
A4D03
B2P03
C2P03
D2P03
E2P03
F2P03
G2P03
H2P03
J2P03
K2P03
A5D03
B2U03
C2U03
D2U03
E2U03
F2U03
G2U03
H2U03
J2U03
K2U03
YC950-033 + 5 OV/UV 01BB2(A)
YC950-035 + 8.5 UV 01BB2(A)
+ 5 V 01BB2(B)
YC650-104
SFWB
+ 8.5 V 01BB2(B)
YC650-107
SFWB
01BB2Y4
M1A12
M1B12
M1C12
M1D12
M2B11
N2B11
P2B11
Q2B11
R2B11
S2B11
T2B11
U2B11
M2G11
N2G11
P2G11
Q2G11
R2G11
S2G11
T2G11
U2G11
M2M11
N2M11
P2M11
Q2M11
R2M11
S2M11
T2M11
U2M11
M2S11
N2S11
P2S11
Q2S11
R2S11
S2S11
T2S11
U2S11
01BB2Y4
M1E12
N1A12
N1B12
N1C12
M2B13
N2B13
P2B13
Q2B13
R2B13
S2B13
T2B13
U2B13
L2D03
M2D03
N2D03
P2D03
Q2D03
R2D03
S2D03
T2D03
U2D03
V2D03
M2G06
N2G06
P2G06
Q2G06
R2G06
S2G06
T2G06
U2G06
L2J03
M2J03
N2J03
P2J03
Q2J03
R2J03
S2J03
T2J03
U2J03
V3D03
M2M13
N2M13
P2M13
Q2M13
R2M13
S2M13
T2M13
U2M13
L2P03
M2P03
N2P03
P2P03
Q2P03
R2P03
S2P03
T2P03
U2P03
V4D03
L2U03
M2U03
N2U03
P2U03
Q2U03
R2U03
S2U03
T2U03
U2U03
V5D03
YC950-027 + 5 OV/UV 01BB2(B)
YC950-029 + 8.5 UV 01BB2(B)
NOTE: FWB = FLAT WIRE BUSS
SFWB = SPLIT FLAT WIRE BUSS
+ 01BB2(A) RTN
YC650-035
FWB
+ 01BB2(A) RTN
YC650-040
SFWB
01BB2Y2
F1A12
F1B12
F1C12
F1D12
01BB2Y3
H1C12
H1D12
H1E12
J1A12
J1B12
J1C12
J1D12
J1E12
A2D08
B2D08
C2D08
D2D08
E2D08
F2D08
G2D08
H2D08
J2D08
K2D08
L2D08
M2D08
N2D08
P2D08
Q2D08
R2D08
S2D08
T2D08
U2D08
V2D08
A3D08
B2J08
C2J08
D2J08
E2J08
F2J08
G2J08
H2J08
J2J08
K2J08
L2J08
M2J08
N2J08
P2J08
Q2J08
R2J08
S2J08
T2J08
U2J08
V3D08
A4D08
B2P08
C2P08
D2P08
E2P08
F2P08
G2P08
H2P08
J2P08
K2P08
L2P08
M2P08
N2P08
P2P08
Q2P08
R2P08
S2P08
T2P08
U2P08
V4D08
A5D08
B2U08
C2U08
D2U08
E2U08
F2U08
G2U08
H2U08
J2U08
K2U08
L2U08
M2U08
N2U08
P2U08
Q2U08
R2U08
S2U08
T2U08
U2U08
V5D08
YC950-039 + 01BB2 RTN
+ 01BB2(B) RTN
YC650-089
FWB
+ 01BB2(B) RTN
YC650-094
SFWB
01BB2Y5
R1A12
R1B12
R1C12
R1D12
01BB2Y6
T1C12
T1D12
T1E12
U1A12
U1B12
U1C12
U1D12
U1E12
01BB2Y2
E1B12
E1C12
E1D12
E1E12
B2B06
C2B06
D2B06
E2B06
F2B06
G2B06
H2B06
J2B06
B2S06
C2S06
D2S06
E2S06
F2S06
G2S06
H2S06
J2S06
YC950-037 - 5 UV 01BB2(A)
01BB2Y5
Q1B12
Q1C12
Q1D12
Q1E12
M2B06
N2B06
P2B06
Q2B06
R2B06
S2B06
T2B06
U2B06
M2S06
N2S06
P2S06
Q2S06
R2S06
S2S06
T2S06
U2S06
YC950-031 - 5 UV 01BB2(B)
- 5 V 01BB2(A)
YC650-044
SFWB
- 5 V 01BB2(B)
YC650-098
SFWB
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
01BB2 BD DC PWR DISTRUBUTION
SEQ YC001
PRINT 25SEP84 0050 PN 6315753
PAGE 12 OF 24
MACH 3880
PNAME YC
LOC
HPN
HEC A21747
IBM CORP
YC660 (C) COPYRIGHT IBM CORPORATION 1984
YC660



NOTE: THIS CABLE INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB — MACHINES WITHOUT EXPANDED STORAGE ONLY.

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146
09AUG84 881215

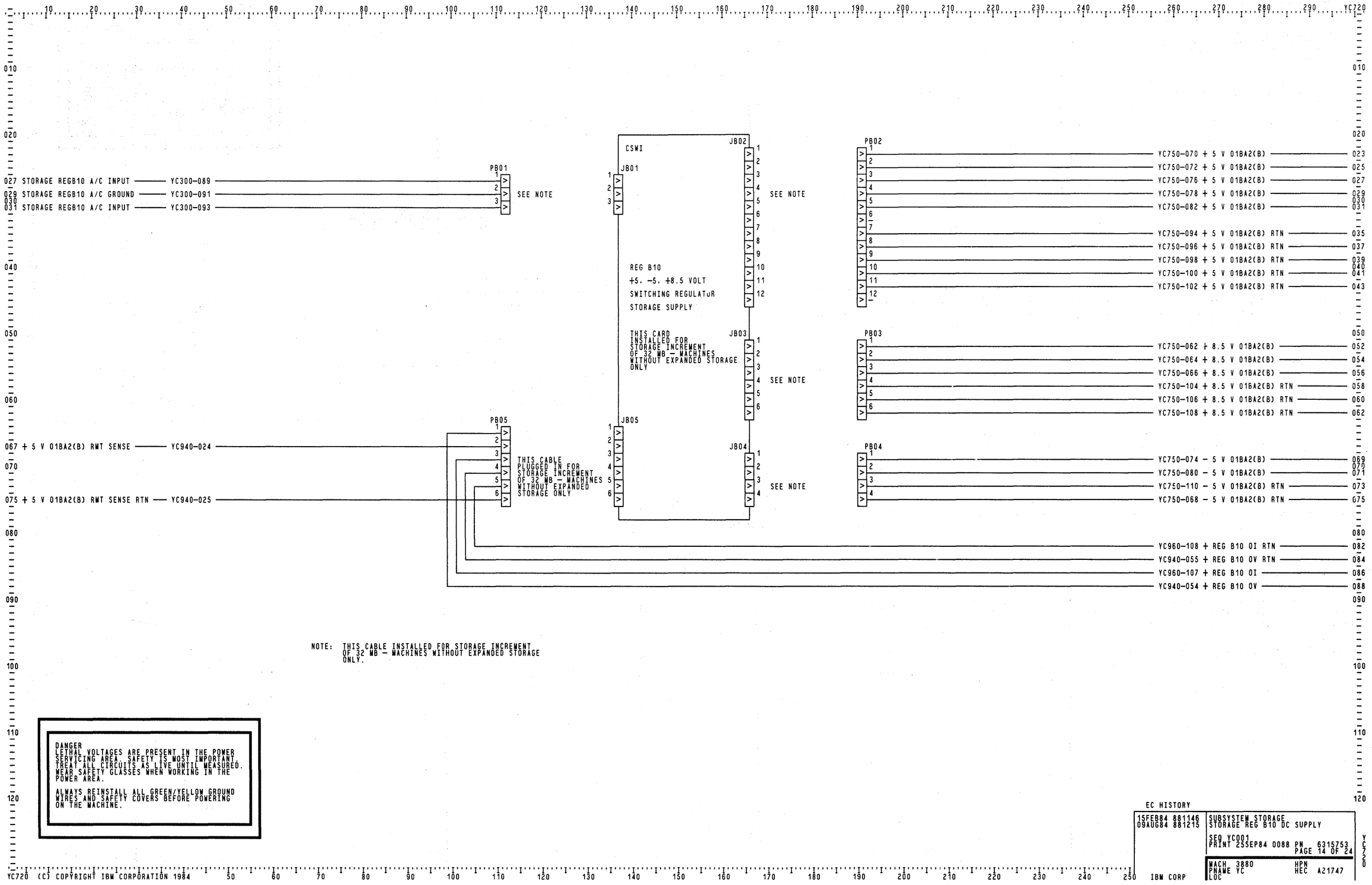
SUBSYSTEM STORAGE
STORAGE REG B40 DC SUPPLY

SEQ YC001
PRINT 25SEP84 0089 PN 6315753
PAGE 13 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC700

IBM CORP



NOTE: THIS CABLE INSTALLED FOR STORAGE INCREMENT OF 32 MB — MACHINES WITHOUT EXPANDED STORAGE ONLY.

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146 09AUG84 881215	SUBSYSTEM STORAGE STORAGE REG B10 DC SUPPLY

SEQ YC001
PRINT 25SEP84 0088 PN 6315753
PAGE 14 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC720

008 + 8.5 V 01BA2(A) — YC700-052
010 + 8.5 V 01BA2(A) — YC700-054
012 + 8.5 V 01BA2(A) — YC700-056
014 - 5 V 01BA2(A) RTN — YC700-075
016 + 5 V 01BA2(A) — YC700-023
018 + 5 V 01BA2(A) — YC700-025
020 - 5 V 01BA2(A) — YC700-069
022 + 5 V 01BA2(A) — YC700-027
024 + 5 V 01BA2(A) — YC700-029
026 - 5 V 01BA2(A) — YC700-071
028 + 5 V 01BA2(A) — YC700-031

01BP17 (1-12)

THIS CABLE INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB - MACHINES WITHOUT EXPANDED STORAGE ONLY

040 + 5 V 01BA2(A) RTN — YC700-035
042 + 5 V 01BA2(A) RTN — YC700-037
044 + 5 V 01BA2(A) RTN — YC700-039
046 + 5 V 01BA2(A) RTN — YC700-041
048 + 5 V 01BA2(A) RTN — YC700-043
050 + 8.5 V 01BA2(A) RTN — YC700-058
052 + 8.5 V 01BA2(A) RTN — YC700-060
054 + 8.5 V 01BA2(A) RTN — YC700-062
056 - 5 V 01BA2(A) RTN — YC700-073
058 - 01B RTN TO BD B2 — YC650-041

01BP13 (1-9)

THIS CABLE INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB - MACHINES WITHOUT EXPANDED STORAGE ONLY

062 + 8.5 V 01BA2(B) — YC720-052
064 + 8.5 V 01BA2(B) — YC720-054
066 + 8.5 V 01BA2(B) — YC720-056
068 - 5 V 01BA2(B) RTN — YC720-075
070 + 5 V 01BA2(B) — YC720-023
072 + 5 V 01BA2(B) — YC720-025
074 - 5 V 01BA2(B) — YC720-069
076 + 5 V 01BA2(B) — YC720-027
078 + 5 V 01BA2(B) — YC720-029
080 - 5 V 01BA2(B) — YC720-071
082 + 5 V 01BA2(B) — YC720-031

01BP09 (1-12)

SEE NOTE 1

094 + 5 V 01BA2(B) RTN — YC720-035
096 + 5 V 01BA2(B) RTN — YC720-037
098 + 5 V 01BA2(B) RTN — YC720-039
100 + 5 V 01BA2(B) RTN — YC720-041
102 + 5 V 01BA2(B) RTN — YC720-043
104 + 8.5 V 01BA2(B) RTN — YC720-058
106 + 8.5 V 01BA2(B) RTN — YC720-060
108 + 8.5 V 01BA2(B) RTN — YC720-062
110 - 5 V 01BA2(B) RTN — YC720-073

01BP05 (1-9)

SEE NOTE 1

NOTES: 1. THIS CABLE INSTALLED FOR STORAGE INCREMENT OF 32 MB - MACHINES WITHOUT EXPANDED STORAGE ONLY.

01BJ09 (1-12) — 01BJ10 (1-12)

C1 — YC550-105 - 01B RTN TO BD B2 — 087
C2 — FWB — YC760-094 + 01BA2(B) RTN — 089
C3 — SFWB — YC760-102 + 01BA2(B) RTN — 094
C4 — SFWB — YC760-120 - 5 V 01BA2(B) — 098
C5 — FWB INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB - MACHINES WITHOUT EXPANDED STORAGE ONLY.
C6 — SFWB — YC760-041 + 5 V 01BA2(B) — 104
C7 — SFWB — YC760-045 + 8.5 V 01BA2(B) — 107

01BJ05 (1-9) — 01BJ06 (1-9)

CPMP CARD

ONE HALF OF THE 01BA2 BOARD POWER DISTRIBUTION

01BJ17 (1-12) — 01BJ18 (1-12)

C8 — FWB — YC760-069 + 01BA2(A) RTN — 035
C9
C10 — SFWB — YC760-077 + 01BA2(A) RTN — 040
C11 — SFWB — YC760-116 - 5 V 01BA2(A) — 044
C12
C13 — SFWB — YC760-012 + 5 V 01BA2(A) — 050
C14 — SFWB — YC760-016 + 8.5 V 01BA2(A) — 053

FWB INSTALLED FOR STORAGE INCREMENTS ABOVE 16 MB - MACHINES WITHOUT EXPANDED STORAGE ONLY.

01BJ13 (1-9) — 01BJ14 (1-9)

CPMP CARD

ONE HALF OF THE 01BA2 BOARD POWER DISTRIBUTION

FWB = FLAT WIRE BUSS

SFWB = SPLIT FLAT WIRE BUSS

EC HISTORY

15FEB84 881146
09AUG84 881215

SUBSYSTEM STORAGE
01BA2 POWER DISTRIBUTION CARD

SEQ YC001
PRINT 25SEP84 0114 PN 6315753 PAGE 15 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC750

+ 5 V 01BA2(A) — YC750-050 — SFWB

+ 8.5 V 01BA2(A) — YC750-053 — SFWB

01BA2Y1: B1A12, B1B12, B1C12, B1D12

B2B11 B2G11 B2M11 B2S11
C2B11 C2G11 C2M11 C2S11
D2B11 D2G11 D2M11 D2S11
E2B11 E2G11 E2M11 E2S11
F2B11 F2G11 F2M11 F2S11
G2B11 G2G11 G2M11 G2S11
H2B11 H2G11 H2M11 H2S11
J2B11 J2G11 J2M11 J2S11

01BA2Y1: B1E12, C1A12, C1B12, C1C12

B2B13 A2D03 B3G06 A3D03 B2M13 A4D03 A5D03
C2B13 B2D03 C2G06 B2J03 C2M13 B2P03 B2U03
D2B13 C2D03 D2G06 C2J03 D2M13 C2P03 C2U03
E2B13 D2D03 E2G06 D2J03 E2M13 D2P03 D2U03
F2B13 E2D03 F2G06 E2J03 F2M13 E2P03 E2U03
G2B13 F2D03 G2G06 F2J03 G2M13 F2P03 F2U03
H2B13 G2D03 H2G06 G2J03 H2M13 G2P03 G2U03
J2B13 H2D03 J2G06 H2J03 J2M13 H2P03 H2U03
K2D03 J2J03 K2M13 J2P03 J2U03
K2J03 K2P03 K2U03

YC950-055 + 5 OV/UV 01BA2(A)

YC950-057 + 8.5 UV 01BA2(A)

+ 5 V 01BA2(B) — YC750-104 — SFWB

+ 8.5 V 01BA2(B) — YC750-107 — SFWB

01BA2Y4: M1A12, M1B12, M1C12, M1D12

M2B11 M2G11 M2M11 M2S11
N2B11 N2G11 N2M11 N2S11
P2B11 P2G11 P2M11 P2S11
Q2B11 Q2G11 Q2M11 Q2S11
R2B11 R2G11 R2M11 R2S11
S2B11 S2G11 S2M11 S2S11
T2B11 T2G11 T2M11 T2S11
U2B11 U2G11 U2M11 U2S11

01BA2Y4: M1E12, N1A12, N1B12, N1C12

M2B13 L2D03 M2G06 L2J03 M2M13 L2P03 L2U03
N2B13 M2D03 N2G06 M2J03 N2M13 M2P03 M2U03
P2B13 N2D03 P2G06 N2J03 P2M13 N2P03 N2U03
Q2B13 P2D03 Q2G06 P2J03 Q2M13 P2P03 P2U03
R2B13 Q2D03 R2G06 Q2J03 R2M13 Q2P03 Q2U03
S2B13 R2D03 S2G06 R2J03 S2M13 R2P03 R2U03
T2B13 S2D03 T2G06 S2J03 T2M13 S2P03 S2U03
U2B13 T2D03 U2G06 T2J03 U2M13 T2P03 T2U03
U2D03 U2J03 U2P03 U2U03
V2D03 V3D03 V4D03 V5D03

YC950-049 + 5 OV/UV 01BA2(B)

YC950-051 + 8.5 UV 01BA2(B)

NOTE: =FWB= = FLAT WIRE BUSS

=SFWB= = SPLIT FLAT WIRE BUSS

+ 01BA2(A) RTN — YC750-035 — FWB

+ 01BA2(A) RTN — YC750-040 — SFWB

01BA2Y3: H1C12, H1D12, H1E12, J1A12, J1B12, J1C12, J1D12, J1E12

A2D08 A3D08 A4D08 A5D08
B2D08 B2J08 B2P08 B2U08
C2D08 C2J08 C2P08 C2U08
D2D08 D2J08 D2P08 D2U08
E2D08 E2J08 E2P08 E2U08
F2D08 F2J08 F2P08 F2U08
G2D08 G2J08 G2P08 G2U08
H2D08 H2J08 H2P08 H2U08
J2D08 J2J08 J2P08 J2U08
K2D08 K2J08 K2P08 K2U08
L2D08 L2J08 L2P08 L2U08
M2D08 M2J08 M2P08 M2U08
N2D08 N2J08 N2P08 N2U08
P2D08 P2J08 P2P08 P2U08
Q2D08 Q2J08 Q2P08 Q2U08
R2D08 R2J08 R2P08 R2U08
S2D08 S2J08 S2P08 S2U08
T2D08 T2J08 T2P08 T2U08
U2D08 U2J08 U2P08 U2U08
V2D08 V3D08 V4D08 V5D08

01BA2Y2: F1A12, F1B12, F1C12, F1D12

01BA2Y2: E1B12, E1C12, E1D12, E1E12

B2B06 B2S06
C2B06 C2S06
D2B06 D2S06
E2B06 E2S06
F2B06 F2S06
G2B06 G2S06
H2B06 H2S06
J2B06 J2S06

YC950-059 - 5 UV 01BA2(A)

+ 01BA2(B) RTN — YC750-089 — FWB

+ 01BA2(B) RTN — YC750-094 — SFWB

01BA2Y6: T1C12, T1D12, T1E12, U1A12, U1B12, U1C12, U1D12, U1E12

01BA2Y5: R1A12, R1B12, R1C12, R1D12

01BA2Y5: Q1B12, Q1C12, Q1D12, Q1E12

M2B06 M2S06
N2B06 N2S06
P2B06 P2S06
Q2B06 Q2S06
R2B06 R2S06
S2B06 S2S06
T2B06 T2S06
U2B06 U2S06

YC950-053 - 5 UV 01BA2(B)

YC950-061 + 01BA2 RTN

- 5 V 01BA2(A) — YC750-044 — SFWB

- 5 V 01BA2(B) — YC750-098 — SFWB

NOTE: 01BA2 BOARD AND CABLES TO IT ARE INSTALLED FOR STORAGE INCREMENTS OF 24 MB AND 32 MB

- MACHINES WITHOUT EXPANDED STORAGE.

EC HISTORY

15FEB84 881146
09AUG84 881215

SUBSYSTEM STORAGE
01BA2 BD DC PWR DISTRUBUTION

SEQ YC001
PRINT 25SEP84 0055 PN 6315753
PAGE 16 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

IBM CORP

YC760

TAP CHANGE CONECTION FOR TBC01			
WIRE	200/208V	220/380V	230/240 400/415V
A TO	TBC01-2	TBC01-3	TBC01-4

NOTE: PHASE B = B/N ON 50 HZ EXCEPT JAPAN

PHASE B TO AUX SD SUPPLY — YA131-058

PHASE A TO AUX SD SUPPLY — YA131-060

GROUND — YA131-064

SHIELD — YC131-066

SHIELD

PC04

CPC05 — 4 AMP

LINE — LOAD

LINE — LOAD

SEE TABLE

EX

CHASSIS

TBC01

CXX TRANSFORMER

COM

200/208

220/380

230/240/400/415

CC01

HSC01

CRC01

CRC02

CC02 450K UF

RC01 25 OHM, 10W

CPC02 — 16 AMP

L1 T1 — YC820-028 + 9 V BULK REG C10

CPC04 — 16 AMP

L1 T1 — YC830-028 + 9 V BULK REG C20

YC820-030 + 9 V BULK REG C10 RTN

YC830-030 + 9 V BULK REG C20 RTN

CXX FAN

FAN

FRAME

CHASSIS

FRONT PANEL

CRC03 AC AC

CC03 650K UF

RC02 36 OHM, 2W

CPC01 — 7.5 AMP

L1 T1 — YC820-022 + 5 V BULK REG C10

CPC03 — 7.5 AMP

L1 T1 — YC830-022 + 5 V BULK REG C20

YC820-024 5 V A/C REG C10

YC830-024 5 V A/C REG C20

YC820-026 + 5 V BULK REG C10 RTN

YC830-026 + 5 V BULK REG C20 RTN

DANGER
LETHAL VOLTAGES ARE PRESENT IN THE POWER SERVICING AREA. SAFETY IS MOST IMPORTANT. TREAT ALL CIRCUITS AS LIVE UNTIL MEASURED. CAPACITORS ARE POSSIBLE EXPLODING DEVICES. WEAR SAFETY GLASSES WHEN WORKING IN THE POWER AREA.

ALWAYS REINSTALL ALL GREEN/YELLOW GROUND WIRES AND SAFETY COVERS BEFORE POWERING ON THE MACHINE.

EC HISTORY

15FEB84 881146
09AUG84 881215

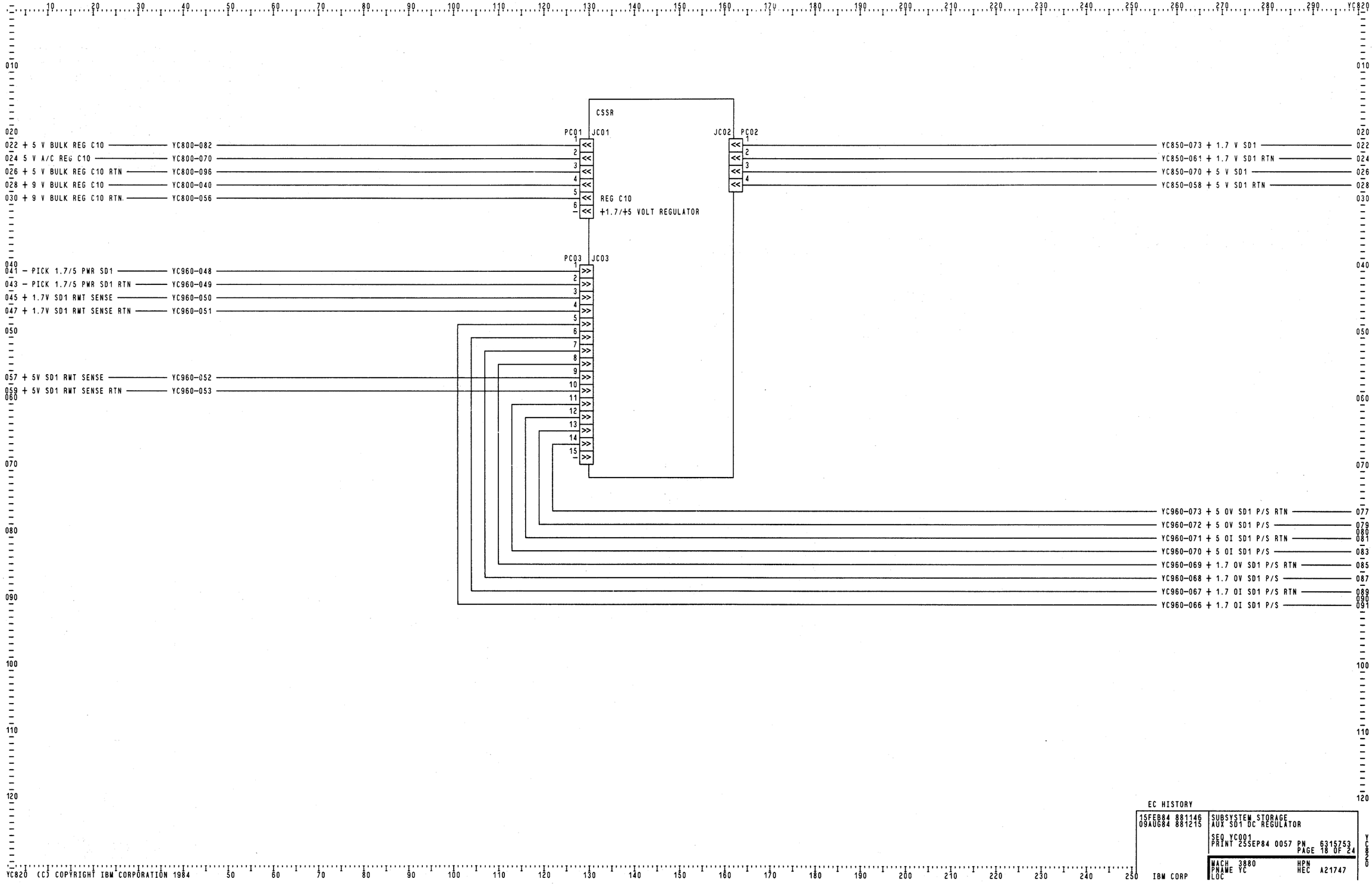
SUBSYSTEM STORAGE
AUX SD1 & 2 DC BULK SUPPLY

SEQ YC001
PRINT 25SEP84 0095 PN 6315753
PAGE 17 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC800

IBM CORP



EC HISTORY

15FEB84 881146
09AUG84 881215

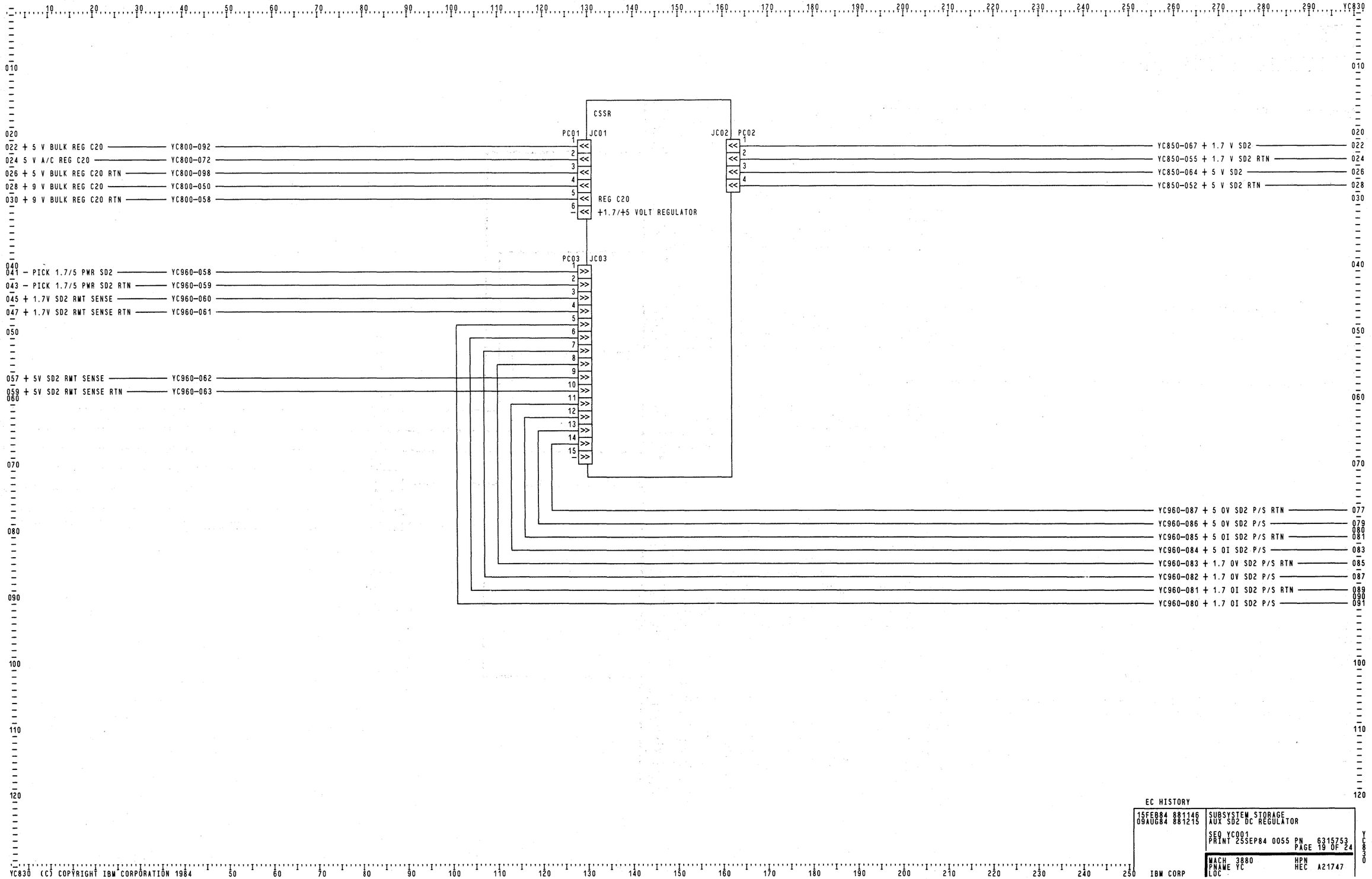
SUBSYSTEM STORAGE
AUX SD1 DC REGULATOR

SEQ YC001
PRINT 25SEP84 0057 PN 6315753
PAGE 18 OF 24

MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC820

IBM CORP



EC HISTORY

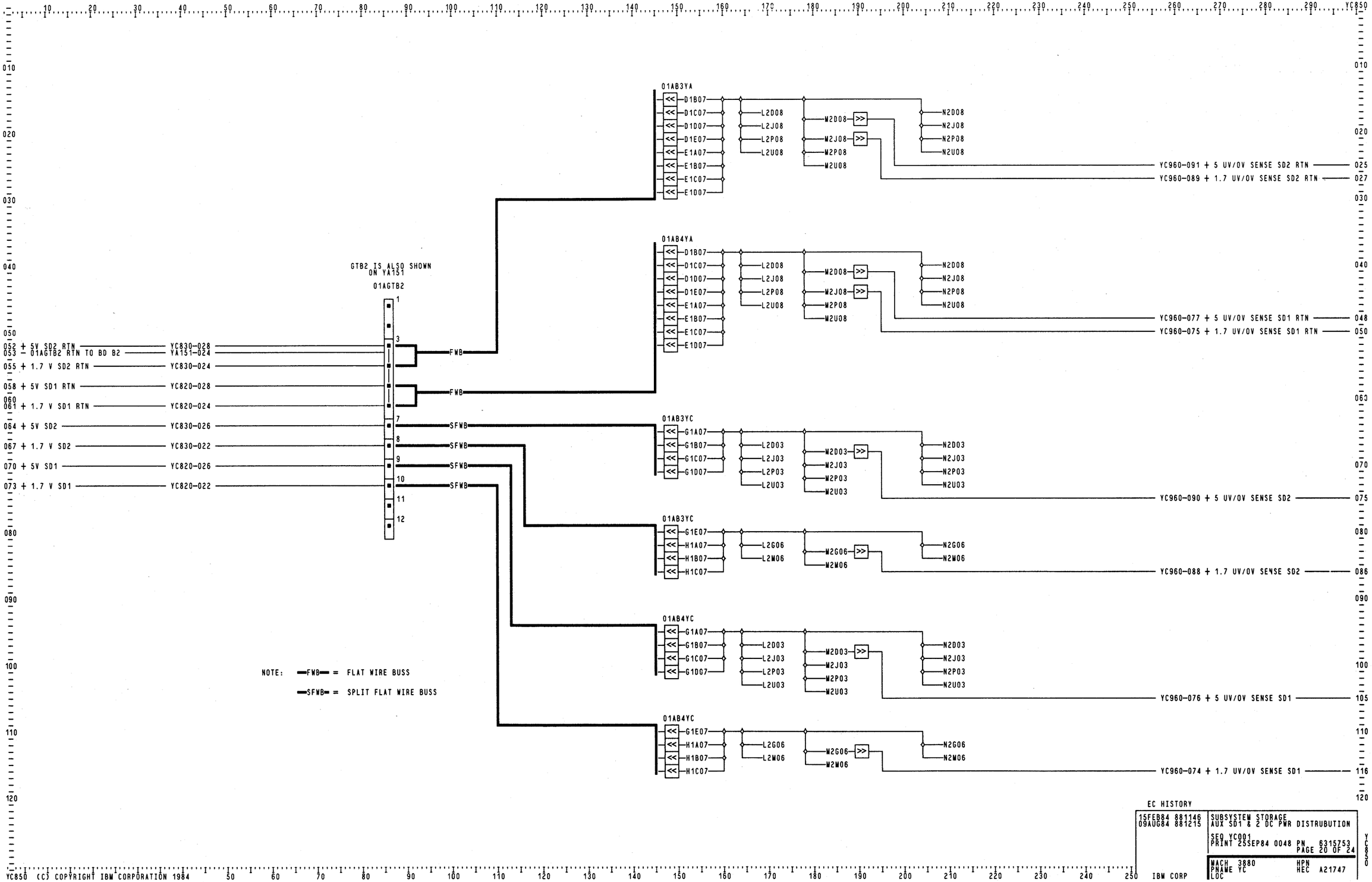
15FEB84 881146
09AUG84 881215

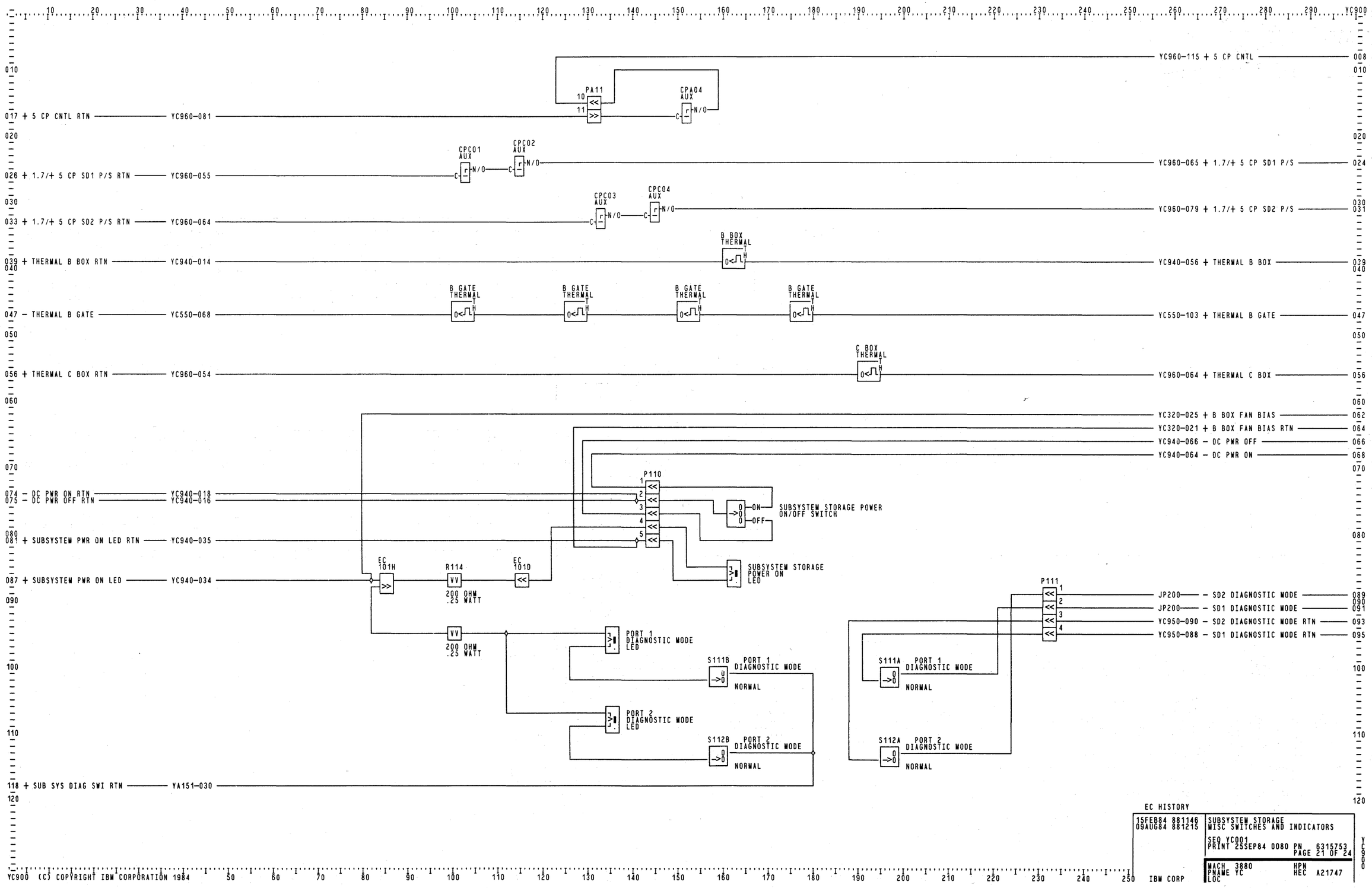
SUBSYSTEM STORAGE
AUX SD2 DC REGULATOR

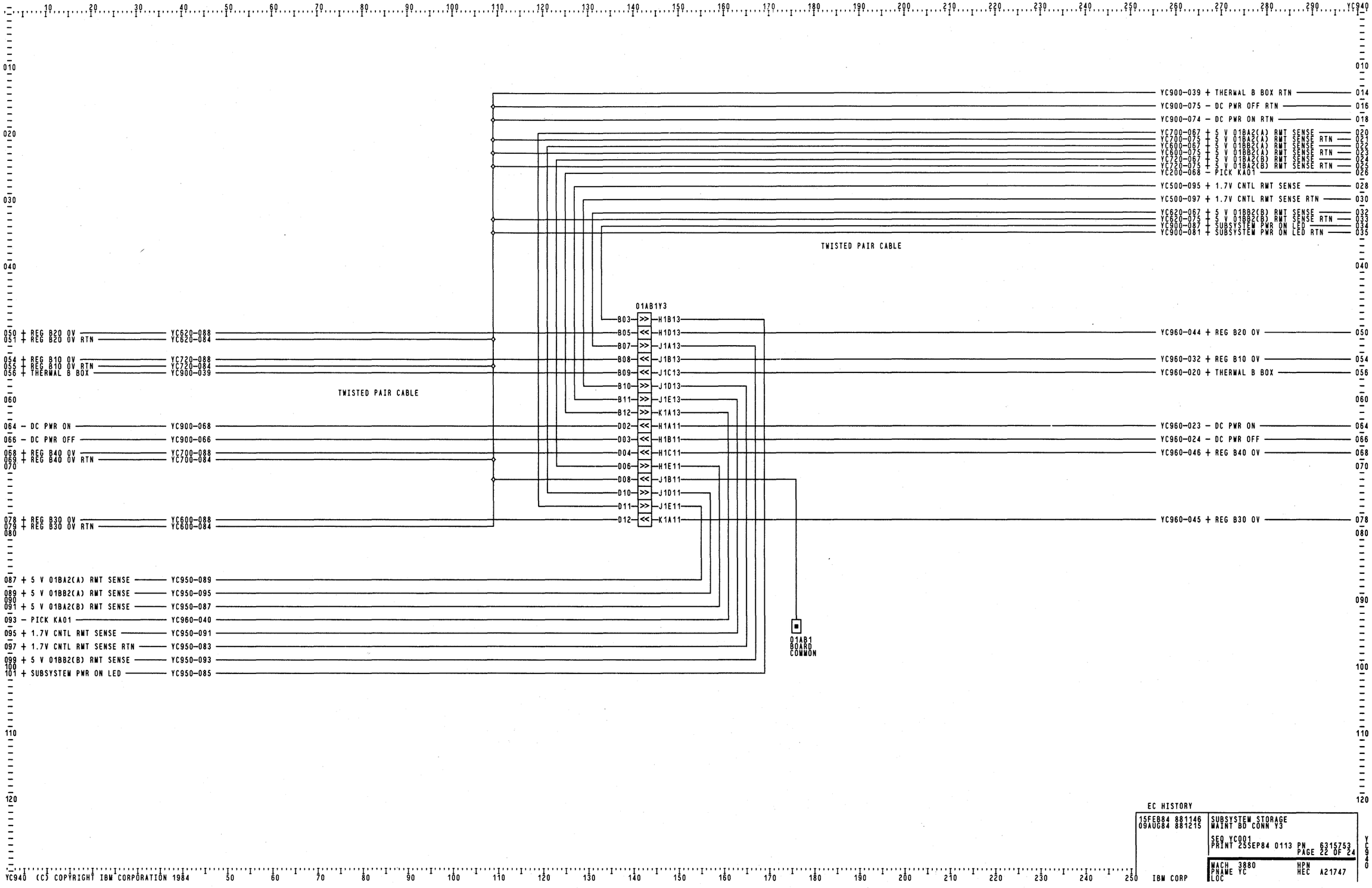
SEQ YC001
PRINT 25SEP84 0055 PN 6315753
PAGE 19 OF 24

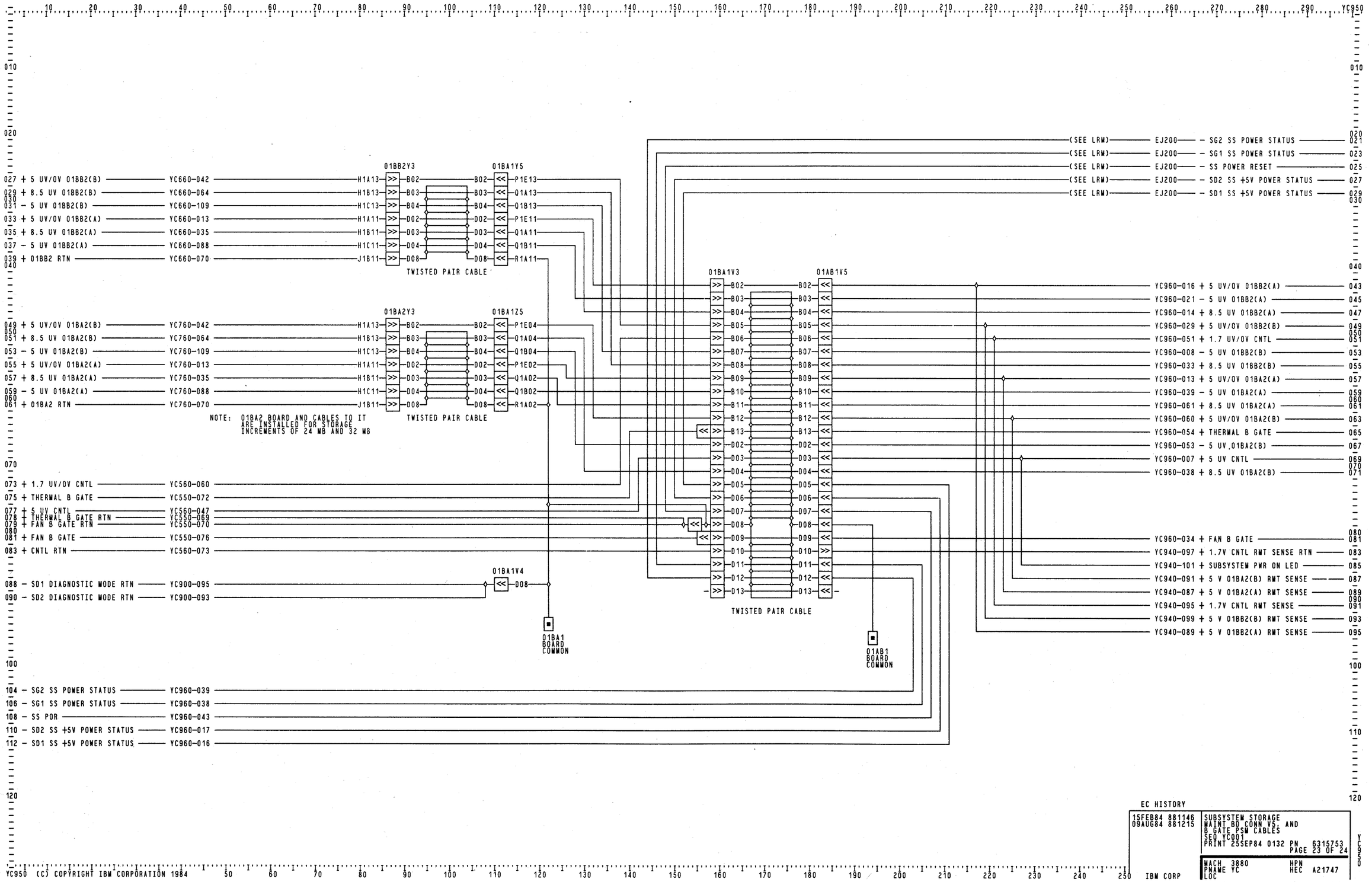
MACH 3880 HPN
PNAME YC HEC A21747
LOC

YC830


GTB2 IS ALSO SHOWN ON YA151
01AGTB2
052 + 5V SD2 RTN — YC830-028
053 — 01AGTB2 RTN TO BD B2 — YA151-024
055 + 1.7 V SD2 RTN — YC830-024
058 + 5V SD1 RTN — YC820-028
061 + 1.7 V SD1 RTN — YC820-024
064 + 5V SD2 — YC830-026
067 + 1.7 V SD2 — YC830-022
070 + 5V SD1 — YC820-026
073 + 1.7 V SD1 — YC820-022
FWB
FWB
SFWB
SFWB
SFWB
SFWB
01AB3YA
D1B07
D1C07
D1D07
D1E07
E1A07
E1B07
E1C07
E1D07
L2D08
L2J08
L2P08
L2U08
M2D08
M2J08
M2P08
M2U08
N2D08
N2J08
N2P08
N2U08
YC960-091 + 5 UV/OV SENSE SD2 RTN
YC960-089 + 1.7 UV/OV SENSE SD2 RTN
01AB4YA
D1B07
D1C07
D1D07
D1E07
E1A07
E1B07
E1C07
E1D07
L2D08
L2J08
L2P08
L2U08
M2D08
M2J08
M2P08
M2U08
N2D08
N2J08
N2P08
N2U08
YC960-077 + 5 UV/OV SENSE SD1 RTN
YC960-075 + 1.7 UV/OV SENSE SD1 RTN
01AB3YC
G1A07
G1B07
G1C07
G1D07
L2D03
L2J03
L2P03
L2U03
M2D03
M2J03
M2P03
M2U03
N2D03
N2J03
N2P03
N2U03
YC960-090 + 5 UV/OV SENSE SD2
01AB3YC
G1E07
H1A07
H1B07
H1C07
L2G06
L2M06
M2G06
M2M06
N2G06
N2M06
YC960-088 + 1.7 UV/OV SENSE SD2
01AB4YC
G1A07
G1B07
G1C07
G1D07
L2D03
L2J03
L2P03
L2U03
M2D03
M2J03
M2P03
M2U03
N2D03
N2J03
N2P03
N2U03
YC960-076 + 5 UV/OV SENSE SD1
01AB4YC
G1E07
H1A07
H1B07
H1C07
L2G06
L2M06
M2G06
M2M06
N2G06
N2M06
YC960-074 + 1.7 UV/OV SENSE SD1
NOTE: —FWB— = FLAT WIRE BUSS
—SFWB— = SPLIT FLAT WIRE BUSS
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
AUX SD1 & 2 DC PWR DISTRUBUTION
SEQ YC001
PRINT 25SEP84 0048 PN 6315753
PAGE 20 OF 24
MACH 3880 HPN
PNAME YC HEC A21747
LOC
YC850 (C) COPYRIGHT IBM CORPORATION 1984
IBM CORP
YC850


YC960-115 + 5 CP CNTL
017 + 5 CP CNTL RTN
YC960-081
PA11
10
11
CPA04 AUX
C
N/O
CPC01 AUX
CPC02 AUX
026 + 1.7/+ 5 CP SD1 P/S RTN
YC960-055
YC960-065 + 1.7/+ 5 CP SD1 P/S
CPC03 AUX
CPC04 AUX
033 + 1.7/+ 5 CP SD2 P/S RTN
YC960-064
YC960-079 + 1.7/+ 5 CP SD2 P/S
B BOX THERMAL
039 + THERMAL B BOX RTN
YC940-014
YC940-056 + THERMAL B BOX
B GATE THERMAL
047 - THERMAL B GATE
YC550-068
YC550-103 + THERMAL B GATE
C BOX THERMAL
056 + THERMAL C BOX RTN
YC960-054
YC960-064 + THERMAL C BOX
YC320-025 + B BOX FAN BIAS
YC320-021 + B BOX FAN BIAS RTN
YC940-066 - DC PWR OFF
YC940-064 - DC PWR ON
074 - DC PWR ON RTN
YC940-018
075 - DC PWR OFF RTN
YC940-016
P110
SUBSYSTEM STORAGE POWER ON/OFF SWITCH
ON
OFF
081 + SUBSYSTEM PWR ON LED RTN
YC940-035
087 + SUBSYSTEM PWR ON LED
YC940-034
EC 101H
R114
200 OHM .25 WATT
EC 101D
SUBSYSTEM STORAGE POWER ON LED
PORT 1 DIAGNOSTIC MODE LED
PORT 2 DIAGNOSTIC MODE LED
S111B PORT 1 DIAGNOSTIC MODE
NORMAL
S112B PORT 2 DIAGNOSTIC MODE
118 + SUB SYS DIAG SWI RTN
YA151-030
P111
JP200 - SD2 DIAGNOSTIC MODE
JP200 - SD1 DIAGNOSTIC MODE
YC950-090 - SD2 DIAGNOSTIC MODE RTN
YC950-088 - SD1 DIAGNOSTIC MODE RTN
S111A PORT 1 DIAGNOSTIC MODE
S112A PORT 2 DIAGNOSTIC MODE
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
MISC SWITCHES AND INDICATORS
SEQ YC001
PRINT 25SEP84 0080 PN 6315753
PAGE 21 OF 24
MACH 3880
PNAME YC
LOC
HPN
HEC A21747
IBM CORP
YC900 (C) COPYRIGHT IBM CORPORATION 1984


TWISTED PAIR CABLE
TWISTED PAIR CABLE
01AB1Y3
01AB1 BOARD COMMON
050 + REG B20 OV — YC620-088
051 + REG B20 OV RTN — YC620-084
054 + REG B10 OV — YC720-088
055 + REG B10 OV RTN — YC720-084
056 + THERMAL B BOX — YC900-039
064 - DC PWR ON — YC900-068
066 - DC PWR OFF — YC900-066
068 + REG B40 OV — YC700-088
069 + REG B40 OV RTN — YC700-084
078 + REG B30 OV — YC600-088
079 + REG B30 OV RTN — YC600-084
087 + 5 V 01BA2(A) RMT SENSE — YC950-089
089 + 5 V 01BB2(A) RMT SENSE — YC950-095
091 + 5 V 01BA2(B) RMT SENSE — YC950-087
093 - PICK KA01 — YC960-040
095 + 1.7V CNTL RMT SENSE — YC950-091
097 + 1.7V CNTL RMT SENSE RTN — YC950-083
099 + 5 V 01BB2(B) RMT SENSE — YC950-093
101 + SUBSYSTEM PWR ON LED — YC950-085
B03 — H1B13
B05 — H1D13
B07 — J1A13
B08 — J1B13
B09 — J1C13
B10 — J1D13
B11 — J1E13
B12 — K1A13
D02 — H1A11
D03 — H1B11
D04 — H1C11
D06 — H1E11
D08 — J1B11
D10 — J1D11
D11 — J1E11
D12 — K1A11
YC900-039 + THERMAL B BOX RTN — 014
YC900-075 - DC PWR OFF RTN — 016
YC900-074 - DC PWR ON RTN — 018
YC700-067 + 5 V 01BA2(A) RMT SENSE — 020
YC700-075 + 5 V 01BA2(A) RMT SENSE RTN — 021
YC600-067 + 5 V 01BB2(A) RMT SENSE — 022
YC600-075 + 5 V 01BB2(A) RMT SENSE RTN — 023
YC720-067 + 5 V 01BA2(B) RMT SENSE — 024
YC720-075 + 5 V 01BA2(B) RMT SENSE RTN — 025
YC200-068 - PICK KA01 — 026
YC500-095 + 1.7V CNTL RMT SENSE — 028
YC500-097 + 1.7V CNTL RMT SENSE RTN — 030
YC620-067 + 5 V 01BB2(B) RMT SENSE — 032
YC620-075 + 5 V 01BB2(B) RMT SENSE RTN — 033
YC900-087 + SUBSYSTEM PWR ON LED — 034
YC900-081 + SUBSYSTEM PWR ON LED RTN — 035
YC960-044 + REG B20 OV — 050
YC960-032 + REG B10 OV — 054
YC960-020 + THERMAL B BOX — 056
YC960-023 - DC PWR ON — 064
YC960-024 - DC PWR OFF — 066
YC960-046 + REG B40 OV — 068
YC960-045 + REG B30 OV — 078
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
MAINT BD CONN Y3
SEQ YC001
PRINT 25SEP84 0113 PN 6315753
PAGE 22 OF 24
MACH 3880
PNAME YC
LOC
HPN
HEC A21747
YC940 (C) COPYRIGHT IBM CORPORATION 1984
IBM CORP
YC940


01BB2Y3
01BA1Y5
027 + 5 UV/OV 01BB2(B) YC660-042 H1A13 B02 B02 P1E13
029 + 8.5 UV 01BB2(B) YC660-064 H1B13 B03 B03 Q1A13
030
031 - 5 UV 01BB2(B) YC660-109 H1C13 B04 B04 Q1B13
033 + 5 UV/OV 01BB2(A) YC660-013 H1A11 D02 D02 P1E11
035 + 8.5 UV 01BB2(A) YC660-035 H1B11 D03 D03 Q1A11
037 - 5 UV 01BB2(A) YC660-088 H1C11 D04 D04 Q1B11
039 + 01BB2 RTN YC660-070 J1B11 D08 D08 R1A11
040
TWISTED PAIR CABLE
01BA2Y3
01BA1Z5
049 + 5 UV/OV 01BA2(B) YC760-042 H1A13 B02 B02 P1E04
050
051 + 8.5 UV 01BA2(B) YC760-064 H1B13 B03 B03 Q1A04
053 - 5 UV 01BA2(B) YC760-109 H1C13 B04 B04 Q1B04
055 + 5 UV/OV 01BA2(A) YC760-013 H1A11 D02 D02 P1E02
057 + 8.5 UV 01BA2(A) YC760-035 H1B11 D03 D03 Q1A02
059 - 5 UV 01BA2(A) YC760-088 H1C11 D04 D04 Q1B02
060
061 + 01BA2 RTN YC760-070 J1B11 D08 D08 R1A02
NOTE: 01BA2 BOARD AND CABLES TO IT ARE INSTALLED FOR STORAGE INCREMENTS OF 24 MB AND 32 MB
TWISTED PAIR CABLE
070
073 + 1.7 UV/OV CNTL YC560-060
075 + THERMAL B GATE YC550-072
077 + 5 UV CNTL YC560-047
078 + THERMAL B GATE RTN YC550-069
079 + FAN B GATE RTN YC550-070
080
081 + FAN B GATE YC550-076
083 + CNTL RTN YC560-073
01BA1V4
088 - SD1 DIAGNOSTIC MODE RTN YC900-095 D08
090 - SD2 DIAGNOSTIC MODE RTN YC900-093
01BA1 BOARD COMMON
100
104 - SG2 SS POWER STATUS YC960-039
106 - SG1 SS POWER STATUS YC960-038
108 - SS POR YC960-043
110 - SD2 SS +5V POWER STATUS YC960-017
112 - SD1 SS +5V POWER STATUS YC960-016
120
01BA1V3
01AB1V5
B02 B02
B03 B03
B04 B04
B05 B05
B06 B06
B07 B07
B08 B08
B09 B09
B10 B10
B11 B11
B12 B12
B13 B13
D02 D02
D03 D03
D04 D04
D05 D05
D06 D06
D07 D07
D08 D08
D09 D09
D10 D10
D11 D11
D12 D12
D13 D13
TWISTED PAIR CABLE
01AB1 BOARD COMMON
(SEE LRM) EJ200 - SG2 SS POWER STATUS 021
(SEE LRM) EJ200 - SG1 SS POWER STATUS 023
(SEE LRM) EJ200 - SS POWER RESET 025
(SEE LRM) EJ200 - SD2 SS +5V POWER STATUS 027
(SEE LRM) EJ200 - SD1 SS +5V POWER STATUS 029
030
040
YC960-016 + 5 UV/OV 01BB2(A) 043
YC960-021 - 5 UV 01BB2(A) 045
YC960-014 + 8.5 UV 01BB2(A) 047
YC960-029 + 5 UV/OV 01BB2(B) 049
050
YC960-051 + 1.7 UV/OV CNTL 051
YC960-008 - 5 UV 01BB2(B) 053
YC960-033 + 8.5 UV 01BB2(B) 055
YC960-013 + 5 UV/OV 01BA2(A) 057
YC960-039 - 5 UV 01BA2(A) 059
060
YC960-061 + 8.5 UV 01BA2(A) 061
YC960-060 + 5 UV/OV 01BA2(B) 063
YC960-054 + THERMAL B GATE 065
YC960-053 - 5 UV 01BA2(B) 067
YC960-007 + 5 UV CNTL 069
070
YC960-038 + 8.5 UV 01BA2(B) 071
080
YC960-034 + FAN B GATE 081
YC940-097 + 1.7V CNTL RMT SENSE RTN 083
YC940-101 + SUBSYSTEM PWR ON LED 085
YC940-091 + 5 V 01BA2(B) RMT SENSE 087
YC940-087 + 5 V 01BA2(A) RMT SENSE 089
090
YC940-095 + 1.7V CNTL RMT SENSE 091
YC940-099 + 5 V 01BB2(B) RMT SENSE 093
YC940-089 + 5 V 01BB2(A) RMT SENSE 095
100
110
120
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
MAINT BD CONN VS. AND
B GATE PSM CABLES
SEQ YC001
PRINT 25SEP84 0132 PN 6315753
PAGE 23 OF 24
MACH 3880 HPN
PNAME YC HEC A21747
LOC
YC950
YC950 (C) COPYRIGHT IBM CORPORATION 1984
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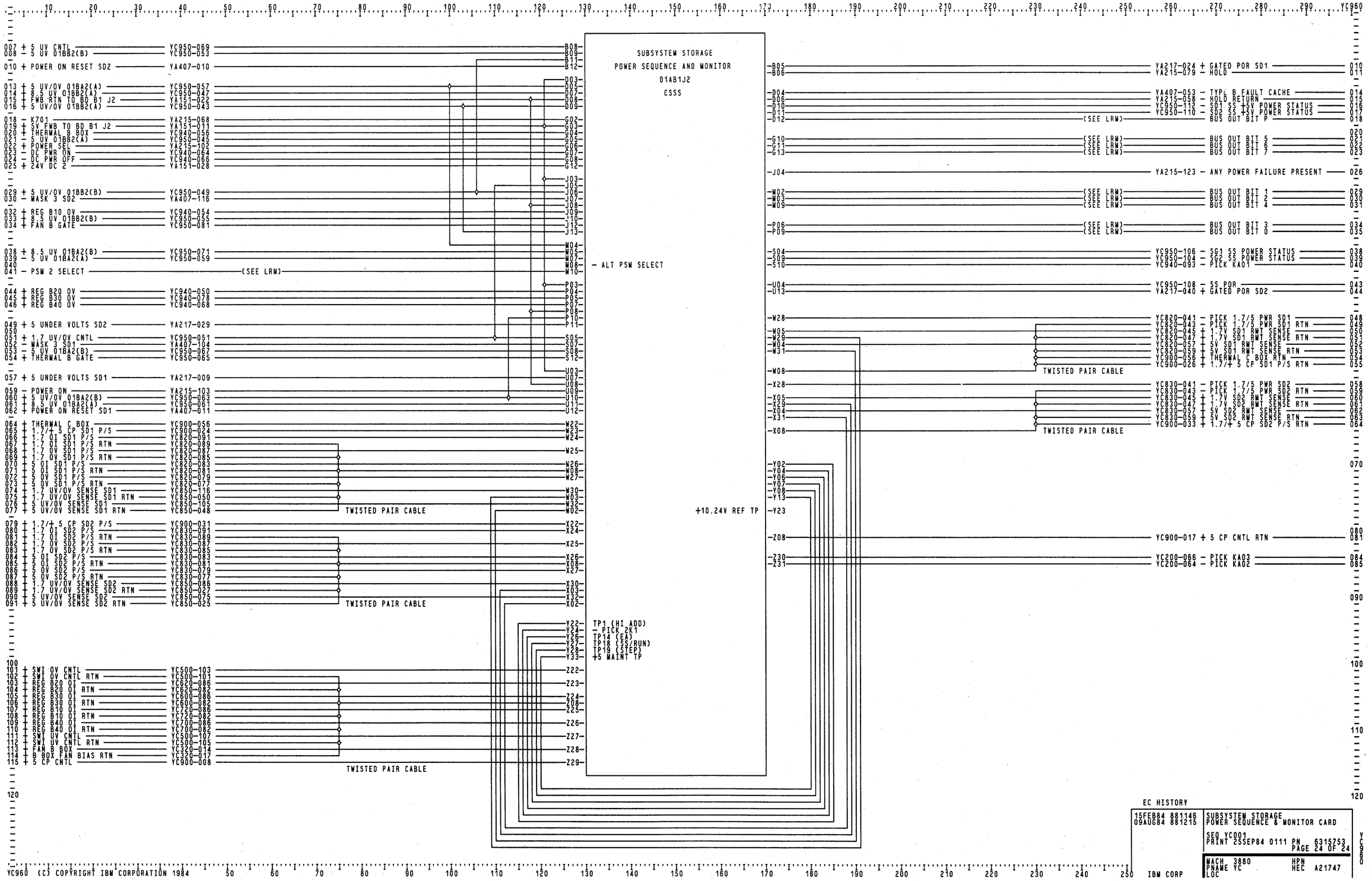
SUBSYSTEM STORAGE
POWER SEQUENCE AND MONITOR
01AB1J2
CSSS
007 + 5 UV CNTL — YC950-069
008 - 5 UV 01BB2(B) — YC950-053
010 + POWER ON RESET SD2 — YA407-010
013 + 5 UV/OV 01BA2(A) — YC950-057
014 + 8.5 UV 01BB2(A) — YC950-047
015 + FWB RTN TO BD B1 J2 — YA151-022
016 + 5 UV/OV 01BB2(A) — YC950-043
018 - K701 — YA215-068
019 + 5V FWB TO BD B1 J2 — YA151-011
020 + THERMAL B BOX — YC940-056
021 - 5 UV 01BB2(A) — YC950-045
022 + POWER SEL — YA215-102
023 - DC PWR ON — YC940-064
024 - DC PWR OFF — YC940-066
025 + 24V DC 2 — YA151-028
029 + 5 UV/OV 01BB2(B) — YC950-049
030 - MASK 3 SD2 — YA407-116
032 + REG B10 OV — YC940-054
033 + 8.5 UV 01BB2(B) — YC950-055
034 + FAN B GATE — YC950-081
038 + 8.5 UV 01BA2(B) — YC950-071
039 - 5 UV 01BA2(A) — YC950-059
041 - PSM 2 SELECT — (SEE LRM)
044 + REG B20 OV — YC940-050
045 + REG B30 OV — YC940-078
046 + REG B40 OV — YC940-068
049 + 5 UNDER VOLTS SD2 — YA217-029
051 + 1.7 UV/OV CNTL — YC950-051
052 - MASK 3 SD1 — YA407-104
053 - 5 UV 01BA2(B) — YC950-067
054 + THERMAL B GATE — YC950-065
057 + 5 UNDER VOLTS SD1 — YA217-009
059 - POWER ON — YA215-103
060 + 5 UV/OV 01BA2(B) — YC950-063
061 + 8.5 UV 01BA2(A) — YC950-061
062 + POWER ON RESET SD1 — YA407-011
064 + THERMAL C BOX — YC900-056
065 + 1.7/+ 5 CP SD1 P/S — YC900-024
066 + 1.7 OI SD1 P/S — YC820-091
067 + 1.7 OI SD1 P/S RTN — YC820-089
068 + 1.7 OV SD1 P/S — YC820-087
069 + 1.7 OV SD1 P/S RTN — YC820-085
070 + 5 OI SD1 P/S — YC820-083
071 + 5 OI SD1 P/S RTN — YC820-081
072 + 5 OV SD1 P/S — YC820-079
073 + 5 OV SD1 P/S RTN — YC820-077
074 + 1.7 UV/OV SENSE SD1 — YC850-116
075 + 1.7 UV/OV SENSE SD1 RTN — YC850-050
076 + 5 UV/OV SENSE SD1 — YC850-105
077 + 5 UV/OV SENSE SD1 RTN — YC850-048
TWISTED PAIR CABLE
079 + 1.7/+ 5 CP SD2 P/S — YC900-031
080 + 1.7 OI SD2 P/S — YC830-091
081 + 1.7 OI SD2 P/S RTN — YC830-089
082 + 1.7 OV SD2 P/S — YC830-087
083 + 1.7 OV SD2 P/S RTN — YC830-085
084 + 5 OI SD2 P/S — YC830-083
085 + 5 OI SD2 P/S RTN — YC830-081
086 + 5 OV SD2 P/S — YC830-079
087 + 5 OV SD2 P/S RTN — YC830-077
088 + 1.7 UV/OV SENSE SD2 — YC850-086
089 + 1.7 UV/OV SENSE SD2 RTN — YC850-027
090 + 5 UV/OV SENSE SD2 — YC850-075
091 + 5 UV/OV SENSE SD2 RTN — YC850-025
TWISTED PAIR CABLE
101 + SWI OV CNTL — YC500-103
102 + SWI OV CNTL RTN — YC500-101
103 + REG B20 OI — YC620-086
104 + REG B20 OI RTN — YC620-082
105 + REG B30 OI — YC600-086
106 + REG B30 OI RTN — YC600-082
107 + REG B10 OI — YC720-086
108 + REG B10 OI RTN — YC720-082
109 + REG B40 OI — YC700-086
110 + REG B40 OI RTN — YC700-082
111 + SWI OV CNTL — YC500-107
112 + SWI OV CNTL RTN — YC500-105
113 + FAN B BOX — YC320-014
114 + B BOX FAN BIAS RTN — YC320-017
115 + 5 CP CNTL — YC900-008
TWISTED PAIR CABLE
B08 B09 B11 B12 D03 D05 D07 D08 D09 G02 G03 G04 G05 G06 G07 G08 G12 J03 J05 J06 J07 J08 J09 J10 J12 J13 M04 M05 M07 M08 M10 P03 P04 P05 P07 P08 P10 P11 S05 S07 S08 S12 U03 U07 U08 U09 U10 U11 U12 W22 W23 W24 W25 W26 W08 W27 W30 W03 W32 W02 X22 X24 X25 X26 X08 X27 X30 X03 X32 X02 Y22 Y24 Y26 Y27 Y28 Y33 Z22 Z23 Z24 Z08 Z25 Z26 Z27 Z28 Z29
- ALT PSM SELECT
+10.24V REF TP
TP1 (HI ADD)
- PICK 2K1
TP14 (EA)
TP18 (SS/RUN)
TP19 (STEP)
+5 MAINT TP
B05 — YA217-024 + GATED POR SD1 — 010
B06 — YA215-079 - HOLD — 011
D04 — YA407-053 - TYPE B FAULT CACHE — 014
D06 — YA215-058 - HOLD RETURN — 015
D10 — YC950-112 - SD1 SS +5V POWER STATUS — 016
D11 — YC950-110 - SD2 SS +5V POWER STATUS — 017
D12 — (SEE LRM) — BUS OUT BIT P — 018
G10 — (SEE LRM) — BUS OUT BIT 5 — 021
G11 — (SEE LRM) — BUS OUT BIT 6 — 022
G13 — (SEE LRM) — BUS OUT BIT 7 — 023
J04 — YA215-123 - ANY POWER FAILURE PRESENT — 026
M02 — (SEE LRM) — BUS OUT BIT 1 — 029
M03 — (SEE LRM) — BUS OUT BIT 2 — 030
M09 — (SEE LRM) — BUS OUT BIT 4 — 031
P06 — (SEE LRM) — BUS OUT BIT 3 — 034
P09 — (SEE LRM) — BUS OUT BIT 0 — 035
S04 — YC950-106 - SG1 SS POWER STATUS — 038
S09 — YC950-104 - SG2 SS POWER STATUS — 039
S10 — YC940-093 - PICK KA01 — 040
U04 — YC950-108 - SS POR — 043
U13 — YA217-040 + GATED POR SD2 — 044
W28 — YC820-041 - PICK 1.7/5 PWR SD1 — 048
YC820-043 - PICK 1.7/5 PWR SD1 RTN — 049
W05 — YC820-045 + 1.7V SD1 RMT SENSE — 050
W29 — YC820-047 + 1.7V SD1 RMT SENSE RTN — 051
W04 — YC820-057 + 5V SD1 RMT SENSE — 052
W31 — YC820-059 + 5V SD1 RMT SENSE RTN — 053
YC900-056 + THERMAL C BOX RTN — 054
W08 — YC900-026 + 1.7/+ 5 CP SD1 P/S RTN — 055
TWISTED PAIR CABLE
X28 — YC830-041 - PICK 1.7/5 PWR SD2 — 058
YC830-043 - PICK 1.7/5 PWR SD2 RTN — 059
X05 — YC830-045 + 1.7V SD2 RMT SENSE — 060
X29 — YC830-047 + 1.7V SD2 RMT SENSE RTN — 061
X04 — YC830-057 + 5V SD2 RMT SENSE — 062
X31 — YC830-059 + 5V SD2 RMT SENSE RTN — 063
X08 — YC900-033 + 1.7/+ 5 CP SD2 P/S RTN — 064
TWISTED PAIR CABLE
Y02 Y04 Y06 Y07 Y08 Y13 Y23
Z08 — YC900-017 + 5 CP CNTL RTN — 081
Z30 — YC200-066 - PICK KA03 — 084
Z31 — YC200-084 - PICK KA02 — 085
EC HISTORY
15FEB84 881146
09AUG84 881215
SUBSYSTEM STORAGE
POWER SEQUENCE & MONITOR CARD
SEQ YC001
PRINT 25SEP84 0111 PN 6315753
PAGE 24 OF 24
MACH 3880 HPN
PNAME YC HEC A21747
LOC
YC960 (C) COPYRIGHT IBM CORPORATION 1984
IBM CORP
YC960