

MACH M	SERIAL	SYST	SYSTEM	F/E	W/T	CUST	MD	MICRO	BOX	MACHINE	PLT	PLT	MACHINE
TYPE C	NUMBER	TYPE	NUMBER	B/O	CTY	NUMBER	CD	TPC-CD	SHIP	SHIP	MFG	CTL	STATUS
3705	0015984	8802	0004XBW	064E		4606164			82/12/30		RAL.	RAL.	FACTORY

BASIC	ECA.EC	FACTORY	EC	SALES	MOD	PLANT	ORDER	HARD	CARD
036.311285				E08		286SKQ		001	

MACHINE DEVICE/RPQ CONFIGURATION

DEVICE/RPQ	QTY	STATUS	DEVICE/RPQ	QTY	STATUS
1302	1	FACTORY INST	9202	1	FACTORY INST
1544	1	FACTORY INST	9311	1	FACTORY INST
1642	1	FACTORY INST	9312	1	FACTORY INST
4650 ID	4	FACTORY INST	9566	1	FACTORY INST
4701 LB	2	FACTORY INST	9606	1	FACTORY INST
4714	5	FACTORY INST	9608	1	FACTORY INST
4726	1	FACTORY INST	9610	1	FACTORY INST
9043	1	FACTORY INST	9612	1	FACTORY INST
9081	1	FACTORY INST	9903	1	FACTORY INST

DOCUMENTATION

ECA	FIELD	FACTORY	FEATURE	FEATURE NAME	STATUS	MES-NO	STAT	DATE
091	318544	318898	1648305 ✓	LOGIC CA-4 N-TYP ROS	FACT INST			
094	344581	344409	1750039	MOD E-H BASIC ALD'S1	FACT INST			
000	317524	318589	1750043	LOGIC CA TYPE 4	FACT INST			
000	314403	314419	1750078	LOGIC E-H CS TYPE 2	FACT INST			
000	316677		1756432	2CA IN CONFIGURATION	FACT INST			
000	309530	318570	5993301	LYN TYP 1 LIB1 W/CS2	FACT INST			
000	309530	309540	5993302	LYN TYP 1 LIB POS 2	FACT INST			
071	316667	322670	5997507	LOGIC LIB TYPE 1	FACT INST			

STANDARD FEATURE SECTION

ECA	FIELD	FACTORY	FEATURE	BM	FTR-ASN	FEATURE NAME	STATUS	MES-NO	STAT	DATE
070	316710	318862	1648398			LINE SET TYPE 1U	FACT INST			
066	315621	344266	1749600			FINAL ASSEMBLY E-L	FACT INST			
091	318544	322680	1749607			CENT CONTROLLER E-H	FACT INST			
000	318551	318581	1749608			E-H 32K MEMORY 60HZ	FACT INST			
000	314406	314419	1749609			BASIC POWER CARDS	FACT INST			
064	316677	318043	1749610			2ND 32K MEMORY UNIT	FACT INST			
078	318552	322680	1749611			TYPE 4 CA POS A4	FACT INST			
000	318029	313980	1749613			POWER 3.4V 60HZ	FACT INST			
059	315619	321763	1750064			TYPE 2 SCANNER	FACT INST			
000	316665	316665	1753401			MODEL E08	FACT INST			
000	316677		1757923			3RD 32K MEMORY UNIT	FACT INST			
000	316677	318043	1757924			4TH 32K MEMORY UNIT	FACT INST			
000	316677		1757925			5TH 32K MEMORY UNIT	FACT INST			
000	316677		1757926			6TH 32K MEMORY UNIT	FACT INST			
000	316677		1757927			7TH 32K MEMORY UNIT	FACT INST			
000	316677		1757928			8TH 32K MEMORY UNIT	FACT INST			
000	310284	318587	1785216			3705 SUPL TYPE 2 C/S	FACT INST			
000	344266		1856794			LABEL	FACT INST			
000	309506	322680	5182870			CHAN ADAPT SW-ENG	FACT INST			
000	309506	318897	5182880			ENG SPAN LANG MODA-H	FACT INST			
000	260824		5496528			GRAY DOM. END COVER	FACT INST			
000	309507	309731	5993293			DOM CE & OP PNL CVR	FACT INST			

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MACHINE HISTORY

DATE 82-12-15

PAGE 3

MACH TYPE	M C	SERIAL NUMBER	SYST TYPE	SYSTEM NUMBER	F/E B/O	W/T CTY	CUST NUMBER	MD CD	MICRO TPC-CD	BOX SHIP	MACHINE SHIP	PLT MFG	PLT CTL	MACHINE STATUS
3705		0015984	8802	0004XBW	064E		4606164			82/12/30		RAL.	RAL.	FACTORY

ECA HISTORY SECTION

N/A = ECA NOT ASSIGNED

EC PROD PRAC LEVEL = 0262 (MRS)

ECA	EC NO	ECA STATUS	FLD B/M	EIT	QTY	FCSI	DATE
093	344424	NOT REQUIRED					
094	344581	INSTALLED					
095	344860	NOT REQUIRED					
096	344425	NOT REQUIRED					
097	344445	TO BE ADDED					
098	344836	NOT REQUIRED					
099	344596	NOT REQUIRED					
100	344597	NOT REQUIRED					
N/A	344438	NOT REQUIRED					
N/A	344856	TO BE ADDED					
N/A	344970	NOT REQUIRED					
N/A	995880	OPTIONAL CHG NOT INST					
N/A	995883	OPTIONAL CHG NOT INST					

VOLUME AAA MACHINE 3705- -0015984 MODEL E08 SYSTEM 0004XBW MODE

BOX SHIP 82/12/30

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
AA000	A	LOGIC VOLUME LIST	0000000000	000000	.W. 0001750039
AA000	B	TO SUPPORT THIS	0000000000	000000	.W. 0001750039
AA000	C	MACHINE	0000000000	000000	.W. 0001750039
AA000	D	XXXXXXXXXXXXXXXXXXXXXX	0000000000	000000	.W. 0001750039
AA000	E	VOL # NAME	0000000000	000000	.W. 0001750039
AA001	B	001 BASIC ALD'S E-H	0001750093	000000	.W. 0001750039
AA001	C	002 BASIC ALD'S E-H	0001750037	000000	.W. 0001750039
AA001	D	003 BASIC ALD'S E-H	0001750038	000000	.W. 0001750039
AA001	E	021 BASIC ALD'S E-H	0001750044	000000	.W. 0001750039
AA001	H	02A BASIC ALD'S E-H	0001750092	000000	.W. 0001750039
AA004	A	007 L.I.B. TYPE 1	0005997507	000000	.W. 0005997507 ✓
AA004	B	008 L.I.B. TYPE 1	0005997507	000000	.W. 0005997507 ✓
AA020	A	024 CS 2 MOD E-H	0001750078	000000	.W. 0001750078 ✓
AA021	A	A04 CA 4	0001750043	000000	.W. 0001750043 ✓
AA032	B	02A ADD CN500 PKG	0001750092	000000	.W. 0001750039 .W. 0001648305

TOTAL PART NUMBERS THIS VOLUME

15

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VOLUME 001 MACHINE 3705- -0015984 MODEL E08 SYSTEM 0004XBW MODE BOX SHIP 82/12/30

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
YZ000		20 SHEETS-3705 LOGIC	0001770700	344581	.W. 0001750039
YZ000A		REQUIREMENTS GUIDE	0008549291	318590	.W. 0001750039
YZ001		PRIME PWR-208/230V-6	0001770710	315608	.W. 0001750039
YZ003*		208/230V 60HZ DOM	0001750270	314419	.W. 0001750039
YZ011		PRIME PWR-220/408V-5	0001770713	315608	.W. 0001750039
YZ013*		220/235/380/408V 50H	0001750271	314419	.W. 0001750039
YZ021		PRIME PWR-200V-60HZ	0001770716	315608	.W. 0001750039
YZ023*		200 60H JAP 208/230V	0001750272	314419	.W. 0001750039
YZ031		PRIME PWR-200V-50HZ	0001770719	315608	.W. 0001750039
YZ033*		200/220V 50HZ JAPAN	0001750273	314419	.W. 0001750039
YZ037		DC PWR TO DISK	0001757864	316710	.W. 0001750039
YZ041*		PWR SEQUENCE SCHMAT	0001750274	315621	.W. 0001750039
YZ042*		PWR SEQUENCE SCHMAT	0001750275	344409	.W. 0001750039
YZ051*		PRIME PWR SEQUENCE	0001750276	318894	.W. 0001750039
YZ052		PRIME PWR SEQUENCING	0001770725	315605	.W. 0001750039
YZ053		EPO & POWER-ON-DETAI	0001770726	313977	.W. 0001750039
YZ054*		THERMAL /FAULT SENSE	0001750277	315621	.W. 0001750039
YZ055*		DC SEQUENCE	0001750278	315621	.W. 0001750039
YZ056*		DC SEQUENCE	0001750279	315621	.W. 0001750039
YZ057*		+24VDC /COMMON DIST	0001750280	315608	.W. 0001750039
YZ071		PWR CONVERSION B/M	0001749719	318043	.W. 0001750039
YZ073*		WIRING DIAGRAM	0001750281	314419	.W. 0001750039
YZ075		PWR CONVERSION B/M	0001749720	313977	.W. 0001750039
YZ078		AC PWR TO DISK	0001757863	315058	.W. 0001750039
YZ081		PS1 WIRING 60 HZ	0001770745	316710	.W. 0001750039
YZ083		PS1 WIRING 50 HZ	0001770747	316710	.W. 0001750039
YZ099A		OLD-AL PLUG CHART	0001750283	315621	.W. 0001750039
YZ101		POWER CONVERSION BM	0001750113	314419	.W. 0001750039
YZ111		POWER CONVERSION BM	0001750114	312922	.W. 0001750039
YZ121		POWER CONVERSION BM	0001750115	318043	.W. 0001750039
YZ131		POWER CONVERSION BM	0001750116	312922	.W. 0001750039
YZ141		POWER CONVERSION BM	0001750117	312922	.W. 0001750039
YZ151		POWER CONVERSION BM	0001750118	312922	.W. 0001750039
YZ161		POWER CONVERSION BM	0001750119	312922	.W. 0001750039
YZ171		POWER CONVERSION BM	0001750120	316665	.W. 0001750039
YZ191		POWER CONVERSION BM	0001750121	312922	.W. 0001750039
YZ195		POWER CONVERSIO B/M	0001750122	318043	.W. 0001750039
YZ201		4 SHEETS-DC BUS PLUG	0005998397	315621	.W. 0001750039
YZ211		3 SHEETS-DC BUS PLUG	0005998398	315621	.W. 0001750039
YZ221		4 SHEETS-DC BUS PLUG	0005998399	315621	.W. 0001750039
YZ301*		SYSTEM DIAGRAM LOC	0001750284	318589	.W. 0001750039
YZ321*		COMPONENT REF.	0001750282	318894	.W. 0001750039

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VOLUME 001 MACHINE 3705- -0015984 MODEL E08 SYSTEM 0004XBW MODE BOX SHIP 82/12/30

LOGIC TYPE -0- SYSTEMS DIAGRAMS

PAGE NUM	SH	TITLE	PART NUM	EC NUM	FEATURE B/M OR B/MS
YZ996		CONFIG CHART INST	0001750285	315621	.W. 0001750039
YZ997		CONFIG CHART INST	0001750286	314419	.W. 0001750039

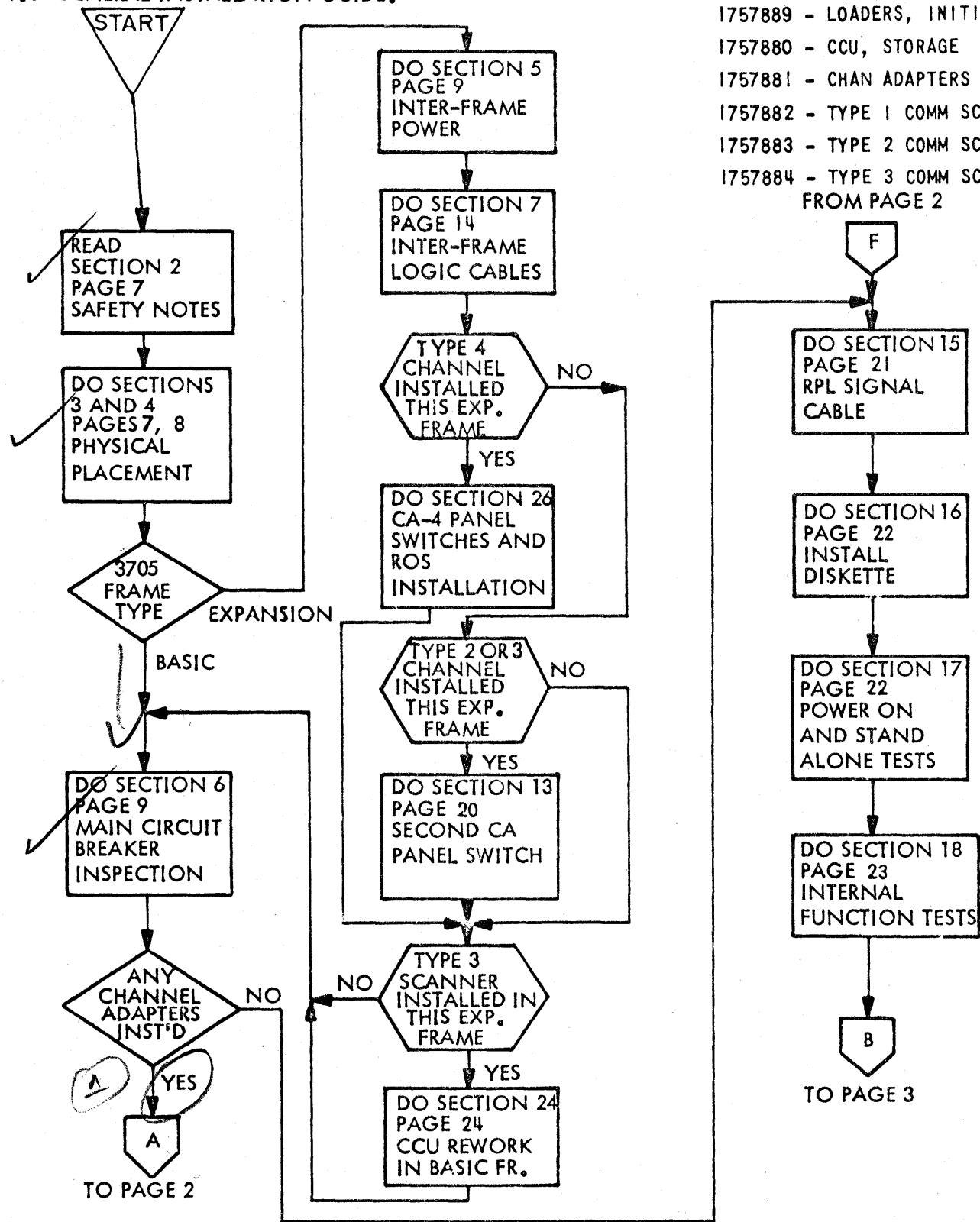
TOTAL PART NUMBERS THIS VOLUME 44

THE YZ000 PAGE PROVIDES INSTRUCTIONS FOR INSTALLING A 3705 SINGLE FRAME OR MULTI-FRAME SUBSYSTEM AND INCLUDES ONLY THOSE ITEMS WHICH ARE NOT PRE-INSTALLED BY THE FACTORY. PRIOR TO INSTALLATION OF THE 3705 THE SYSTEM/360 OR SYSTEM/370 SYSTEMS INSTALLATION INSTRUCTIONS ISSUED FOR THE PARTICULAR SYSTEM SHOULD BE CONSULTED. ALSO, THE CONFIGURATION DATA SET INFORMATION FROM THE IBM SYSTEM/370 OLT SYSTEMS DIAGNOSTIC ORDER PROCEDURE (ZZ25-0505) SHOULD BE REVIEWED IN PREPARATION FOR CONFIGURING THE 3705 DIAGNOSTIC PROGRAMS. THE 3705 MAINTENANCE DIAGNOSTIC PROGRAM MANUAL* ALSO PROVIDES INFORMATION FOR CONFIGURING AND OPERATING THE 3705 DIAGNOSTICS PROGRAMS.* THERE MAY BE SECTIONS LISTED ON THESE PAGES THAT DO NOT AFFECT YOUR PARTICULAR 3705. IF YOU ENCOUNTER ANY OF THESE SECTIONS, BYPASS THEM AND GO ON TO THE SECTIONS THAT DO AFFECT YOUR 3705.

- * PID DOCUMENT D99-3705 C, D, E FOR 3705 IN LOCAL ENVIRONMENT
- * DOCUMENTS FOR 3705'S IN THE REMOTE ENVIRONMENT ARE LISTED UNDER NOTE 1.

** A PREPUNCHED CDS IS INCLUDED IN THE SHIPPING GROUP FOR ALL 3705 ORDERS EXCEPT AN MES FOR A 3706. SOME ADDITIONAL INFORMATION HAS TO BE PUNCHED INTO THIS DECK BEFORE IT CAN BE USED. SEE SECTION 27.

1.0 GENERAL INSTALLATION GUIDE.



NOTE 1

- 1757889 - LOADERS, INITIAL TEST, ROS
- 1757880 - CCU, STORAGE
- 1757881 - CHAN ADAPTERS 1, 2, 3, 4
- 1757882 - TYPE 1 COMM SCANNER
- 1757883 - TYPE 2 COMM SCANNER
- 1757884 - TYPE 3 COMM SCANNER FROM PAGE 2

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VERTICAL ELECTRICAL FORMAT
MRC 780522203
62C 0133-1

IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS		SEE EC HISTORY		SEP80	322670
3705 MODELS A-H			MAY79	318587	NOV80	344409
DESIGN		SHT 1 OF 35	SEP79	318544	JAN81	344581
DETAIL	RTS	NOV76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO					LOGIC PG NO	
					YZ000	

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CHANNEL ADAPTER GENERAL NOTES

- 1) ALL NSC ADDRESSES ARE FACTORY PLUGGED FOR HEX '20'.
- 2) NO SHARED SUBCHANNELS SHOULD BE USED IN THE ESC ADDRESS RANGE.
- 3) WHEN COMPUTING THE ESC ADDRESS RANGE, ALL LINE SETS DO NOT REQUIRE TWO ADDRESSES. SEE 3705 FETMM PAGE C-000 FOR DETAILS.
- 4) WHEN RUNNING IN NCP MODE ONLY ON A CA1 OR CA4, PLUG THE ESC ADDRESS RANGE AS FOLLOWS: LOW = HEX 'C0', HIGH = HEX '53'.
- 5) ON A CA3 INTERFACE 'A' AND 'B' ADDRESSES MUST BE JUMPED FOR THE SAME ADDRESS IF BEING USED FOR ALTERNATE PATH CAPABILITY ON AN UNIPROCESSOR OR AS A SYMMETRIC DEVICE ON A TIGHTLY COUPLED MULTI-PROCESSOR.

CHANNEL ADAPTER JUMPING

READ THE GENERAL NOTES LOCATED TO THE RIGHT THEN GO TO THE SPECIFIED PAGES FOR THE CHANNEL ADAPTER(S) BEING INSTALLED

CA1
RA050-RA052

CA2
QA070-QA071

CA3
SA070-SA071

CA4 FOLLOW FLOW CHART PA048

DO SECTION 9
PAGE 16
POWER ON AND
STAND-ALONE
TESTS

DO SECTION 10
PAGE 17
INSTALLATION
OF I/O INTF.
CABLES

DO SECTION 11
PAGE 17
IFT'S AND
OLT'S
REFER TO
SECTION 27
PAGE 34

REMOTE PROGRAM LOADER INST'D

YES

NO

B

F

TO PAGE 3 TO PAGE 1

FEATURE B/M

FEAT.	BASIC FRAME		EXPANSION FRAME	
	INTF. A	INTF. B	INTF. A	INTF. B
CA1	5993331	5993351	N/A	N/A
CA2	5993339	5993351	5997515	5993351
CA3	1785211	1785211	1785212	1785212
CA4	O1A-A4 1749611	1648351	O2A-A4 1749616	1648351
CA4	O1A-B1 1648282	N/A	O2A-B4 1648283	N/A

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VERTICAL ELECTRICAL FORMAT

6201-182-1 MR02 70552203

IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS		SEE E/C HISTORY		SEP80	322670
	3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN		SHT 2 OF 35	SEP79	318544	JAN 81	344581
DETAIL	TS	OCT76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO					LOGIC PG NO	
					YZ000	

B

FROM PAGE 1,2

PART NO

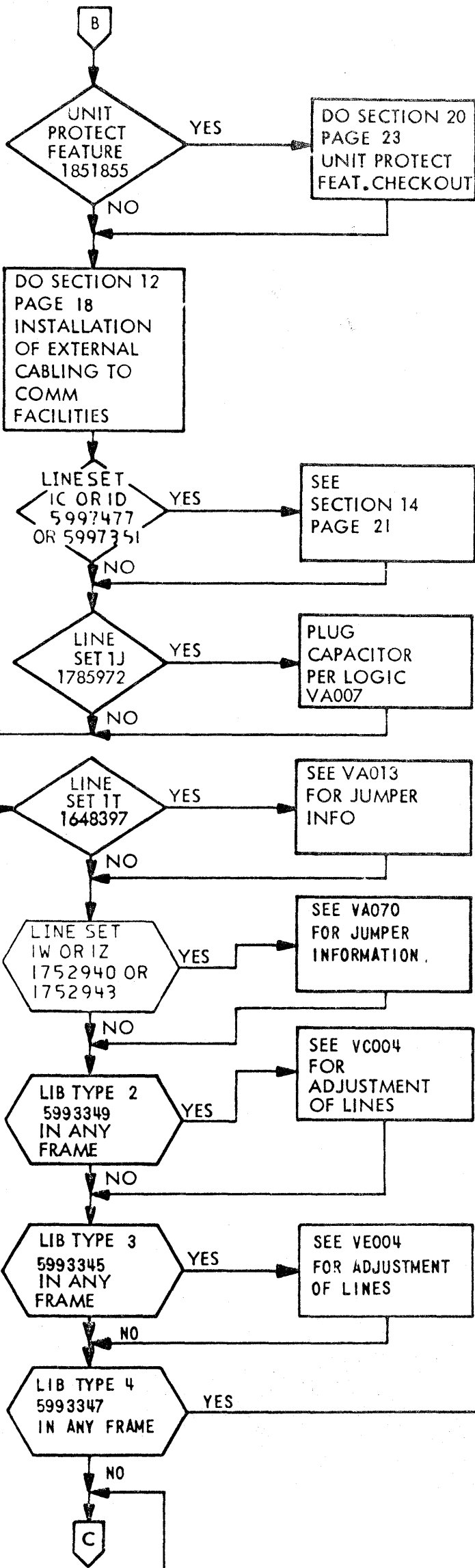
1770700

LOGIC PG. NO

YZ000

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VERTICAL ELECTRICAL FORMAT
620 0133 1
MROZ 78022203

IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS		SEE EC HISTORY		SEP80	322670
3705 MODELS A-H			MAY79	318587	NOV80	344409
DESIGN		SHT 3 OF 35	SEP79	318544	JAN81	344581
DETAIL	RTS	NOV76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO					LOGIC PG NO	
					YZ000	

1770700

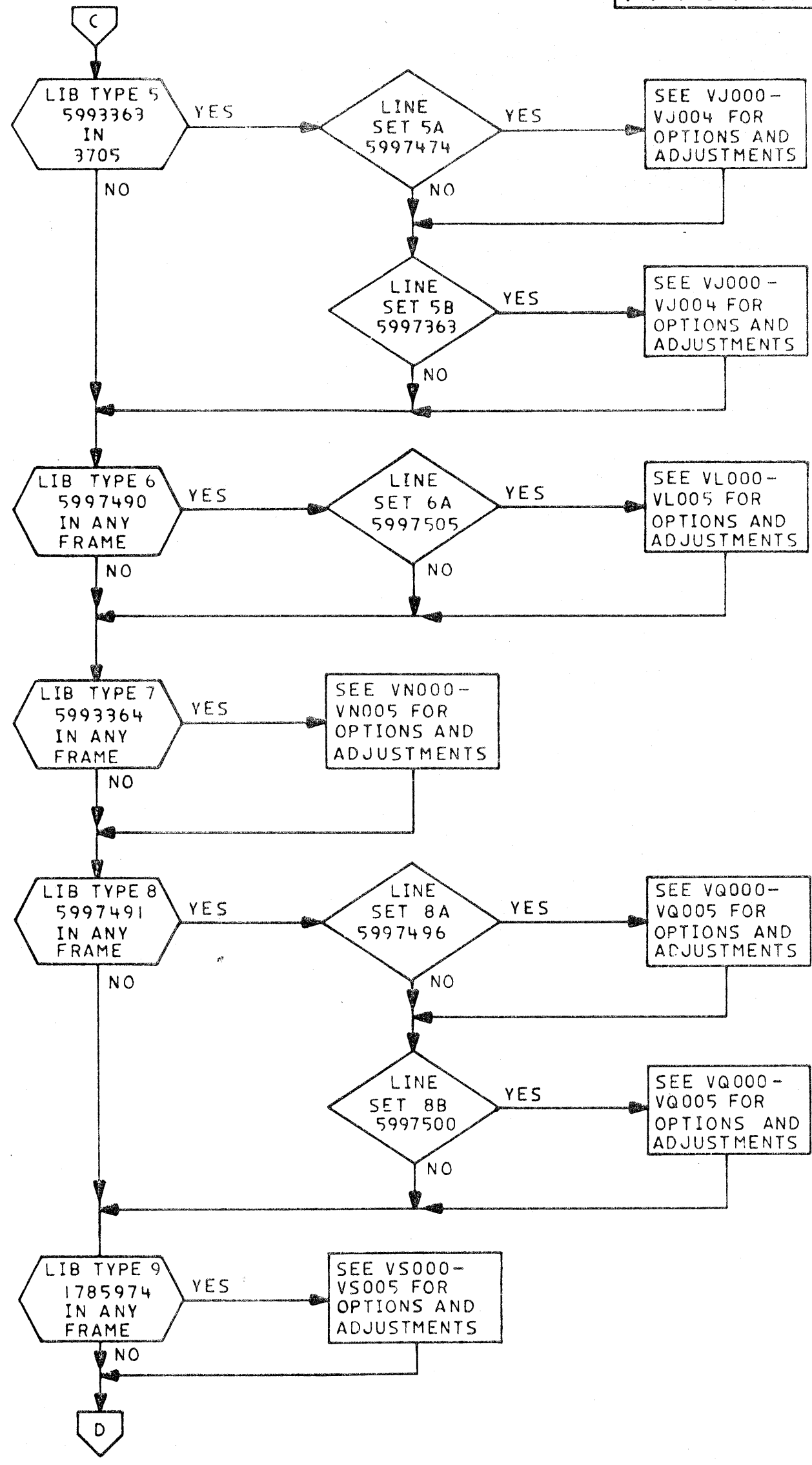
B

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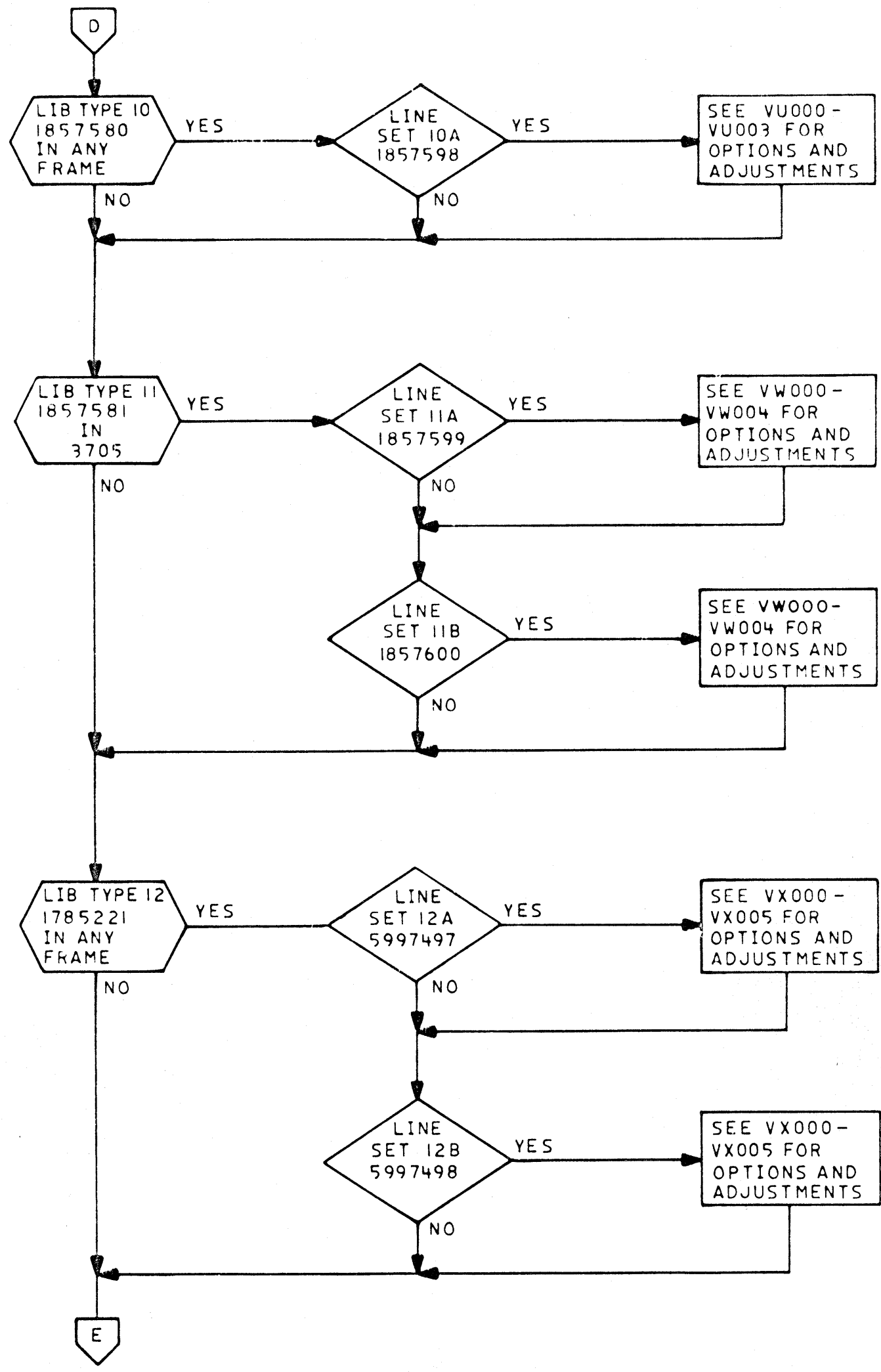
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NAME			DATE	CHANGE NO	DATE	CHANGE NO
INSTALLATION INSTRS			SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H			MAY79	318587	NOV80	344409
DESIGN		SHT 4 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS	OCT 76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO	
APPRO					YZ000	

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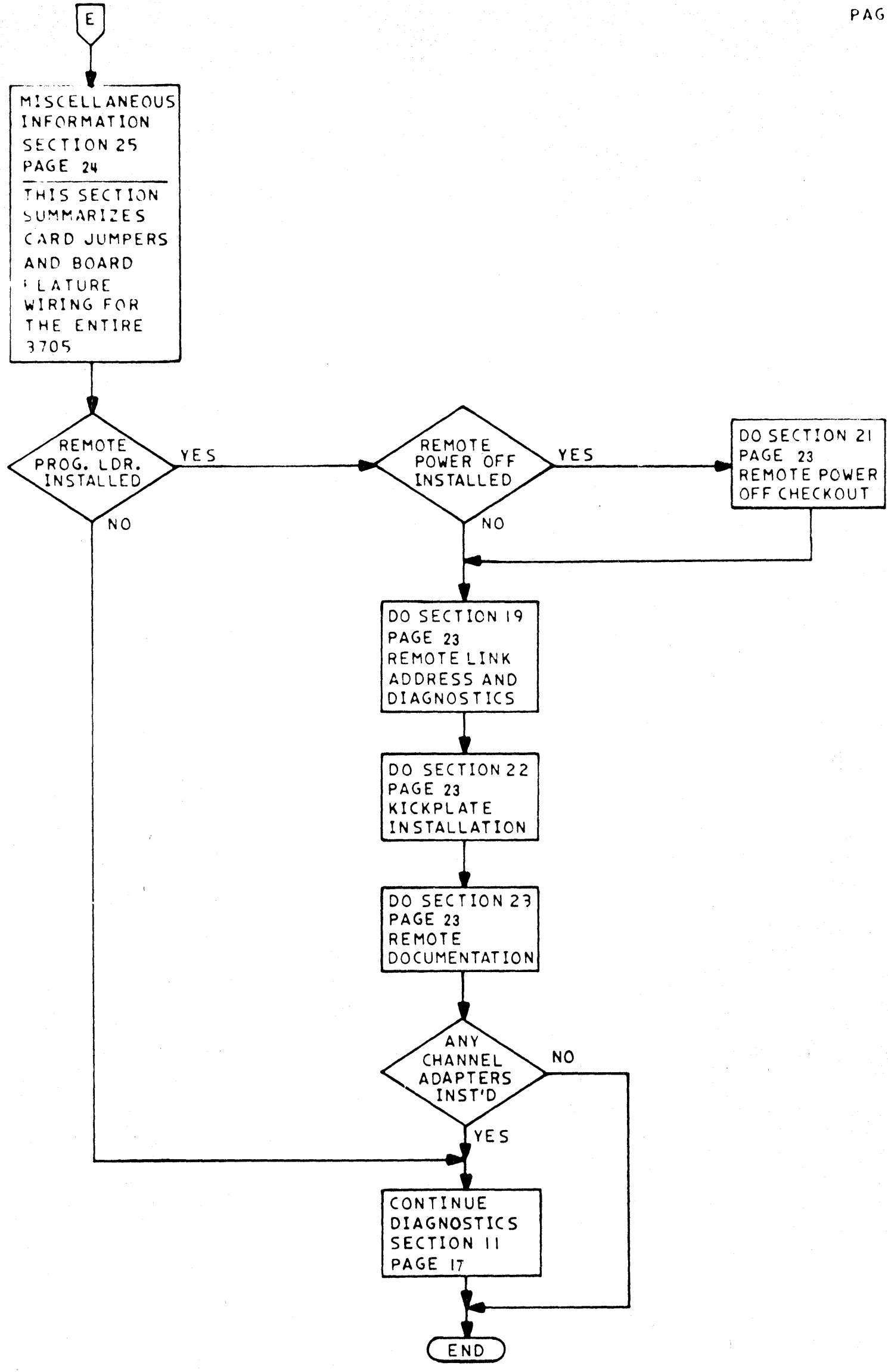
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		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/B MISTORY		SEP80	322670
	3705 MODELS A-H	MAY79	318587	NOV80	344409
DESIGN	SHT 5 OF 35	SEP79	318544	JAN 81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK	CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO	
APPRO				YZ000	

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			DATE	CHANGE NO	DATE	CHANGE NO
NAME			SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H			MAY79	318587	NOV80	344409
DESIGN		SHT 6 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS	OCT76	JAN80	321388	AUG81	344872
CHECK			DEVELOPMENT NO		LOGIC PG NO	
APPROV					YZ000	

1770700 B

2.0 SAFETY NOTES

ALL FE'S SHOULD BE THOROUGHLY FAMILIAR WITH THE SAFETY PRACTICES OUTLINED IN IBM FORMS 124-0002 AND 229-1264. THIS CHAPTER IS NOT INTENDED TO SUPERSEDE OR REPLACE PRACTICES OUTLINED IN THESE FORMS. IT IS INTENDED TO SERVE AS A REMINDER OF SOME OF THE GENERAL SAFETY PRACTICES AND ALSO TO POINT OUT SPECIFIC CONDITIONS ON THE 3705 MACHINE WHICH MAY CONSTITUTE A HAZARD TO MAINTENANCE PERSONNEL. A COPY OF 229-1264 IS SHOWN ON PAGE 1 OF FETMM.

2.1 GENERALLY, THE FOLLOWING SHOULD BE PRACTICED:

- 2.1.1 NO F.E. SHOULD WORK ALONE WHEN PERFORMING MAINTENANCE OR REPAIR WORK. AT LEAST TWO MEN SHOULD BE IN THE ROOM WHENEVER ANY WORK IS BEING DONE ON THE MACHINE.
- 2.1.2 SAFETY GLASSES SHOULD BE WORN DURING ALL MAINTENANCE AND REPAIR WORK.
- 2.1.3 A CO₂ FIRE EXTINGUISHER SHOULD BE IMMEDIATELY AVAILABLE.
- 2.1.4 EXTREME CAUTION MUST BE EXERCISED IF IT IS NECESSARY TO WORK IN ANY AREA WHERE EXPOSED VOLTAGES ARE PRESENT.
- 2.1.5 ALWAYS USE A RELIABLE VOLTMETER TO VERIFY THAT POWER IS ACTUALLY OFF AFTER USING THE POWER-OFF SWITCH.
- 2.1.6 ALWAYS DISCHARGE CAPACITORS BEFORE WORKING ON EQUIPMENT.
- 2.1.7 ALWAYS WATCH FOR SUCH SAFETY HAZARDS SUCH AS NAILS ON CRATES, WOOD SPLINTERS, FLOOR HOLES, JACK UP EQUIPMENT, SLIPPERY FLOORS, ETC.

2.2 SPECIFICALLY FOR THE 3705, THE FOLLOWING SHOULD BE WATCHED.

- 2.2.1 MAKE SURE ALL EXTERNAL CABLES AND ALL POWER CABLES ARE NOT CONNECTED BEFORE STARTING THE INSTALLATION.
- 2.2.2 WHEN CONNECTING TELEGRAPH CABLES CAUTION SHOULD BE EXERCISED AS THEY MAY CONTAIN UP TO 130 VOLTS DC IF CONNECTED TO AN ACTIVE TELEGRAPH LINE.
- 2.2.3 WITH TELEGRAPH CABLES CONNECTED, UP TO 130 VOLTS DC MAY BE PRESENT IN THE 3705 EVEN WITH THE POWER PLUG DISCONNECTED.

3.0 UNLOADING AND MOVEMENT

THE SIZE OF THE 3705 COMMUNICATION CONTROLLER IS SUCH THAT THE UNIT WILL EASILY PASS THROUGH AN AVERAGE DOORWAY. EACH 3705 EXPANSION MODULE, IF REQUIRED, IS THE SAME SIZE AS ITS BASIC 3705 COMMUNICATION CONTROLLER AND IS SHIPPED AS A SEPARATE PACKAGE. THE BASIC UNIT AND EACH EXPANSION MODULE IS SHIPPED WITH CASTERS MOUNTED FOR EASE OF MOVEMENT AFTER UNPACKING AT THE INSTALLATION. DURING REMOVAL OF THE UNIT FROM THE CARRIER OR PLACEMENT AT THE CUSTOMER'S OFFICE, A CERTAIN AMOUNT OF TIPPING OR TILTING IS PERMISSABLE. THE UNIT MUST NOT BE LAID ON ITS END OR SIDE, HOWEVER, AND ANY SUDDEN SHIFTS, STOPS, OR DROPPING OF THE UNIT SHOULD BE AVOIDED.

4.0 PHYSICAL PLACEMENT

CASTERS ARE INSTALLED ON THE UNITS AT SHIPMENT TO FACILITATE MOVING IT AFTER IT HAS BEEN UNPACKED. ONCE UNPACKED, THE UNITS CAN BE WHEELED TO THE INSTALLATION AREA IN THE CUSTOMER'S OFFICE.

IDENTIFY THE EXACT POSITION OF EACH EXPANSION FRAME USING UNIT BILL OF MATERIAL LIST, THE TABLE ON THE NEXT SHEET, AND FIGURES A AND B ON PAGE 10. THE REAR COVER SHOULD BE ATTACHED TO THE REAR OF THE LAST 3705 EXPANSION FRAME.

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		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670
	3705 MODELS A-H	MAY79	318587	NOV80	344409
DESIGN	SHT 7 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK	CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO	
APPRO				Y2000	

3705 MODEL I POSITION FEATURE B/M'S

MODELS	NO. UNIT FRAMES	1ST EXPANSION	2ND EXPANSION	3RD EXPANSION	STORAGE SIZES (KILO-BYTES)
A1, A2	1	N/A	N/A	N/A	16, 48
B1, B2, B3, B4	2	5997801	N/A	N/A	16, 48, 80, 112
C1, C2, C3, C4, C5, C6	3	5997801	5997802	N/A	16, 48, 80, 112, 144, 176
D1, D2, D3, D4, D5, D6, D7, D8	4	5997801	5997802	5997803	16, 48, 80, 112, 144, 176, 208, 240

3705 MODEL II POSITION FEATURE B/M'S

MODELS	NO. UNIT FRAMES	1ST EXPANSION	2ND EXPANSION	3RD EXPANSION	STORAGE SIZES (KILO-BYTES)
E1, E2, E3, E4, E5, E6, E7, E8	1	N/A	N/A	N/A	32, 64, 96, 128, 160, 192, 224, 256
F1, F2, F3, F4, F5, F6, F7, F8	2	1648363	N/A	N/A	32, 64, 96, 128, 160, 192, 224, 256
J1, J2, J3, J4					320, 384, 448, 512
G1, G2, G3, G4, G5, G6, G7, G8	3	1648363	1648364	N/A	32, 64, 96, 128, 160, 192, 224, 256
K1, K2, K3, K4					320, 384, 448, 512
H1, H2, H3, H4, H5, H6, H7, H8	4	1648363	1648364	1648365	32, 64, 96, 128, 160, 192, 224, 256
L1, L2, L3, L4					320, 384, 448, 512

PLACE THE EMC SHIELD (5998396) AND LOOSELY COUPLE THE FRAMES TOGETHER VIA FRAME SPACERS (5993125) AS SHOWN IN FIGURE A ON PAGE 10 BEFORE PROCEEDING WITH LEVELING.

WHEN ALL UNITS ARE IN POSITION, LEVELING FOOT ASSEMBLIES (PN 587875) AND WASHERS ARE INSTALLED AT EACH CORNER OF EACH UNIT. THESE ADJUSTABLE ASSEMBLIES ARE POSITIONED USING A WRENCH UNTIL THE CASTERS CLEAR THE FLOOR AND THE UNIT IS APPROXIMATELY LEVEL. FIGURE 4.1 ILLUSTRATES THE APPROXIMATE POSITIONING OF THE CASTERS AND THE LEVELING FOOT.

THIS PART OF THE INSTALLATION PROCEDURE IS PERFORMED AT MOST CUSTOMER LOCATIONS. HOWEVER, WHEN THE CUSTOMER HAS A CARPETED ROOM OR WILL REQUIRE FREQUENT REARRANGEMENT OF THE 3705 USE OF THE LEVELING FEET IS LEFT TO THE DISCRETION OF THE BRANCH OFFICE AND THE CUSTOMER.

WITH THE UNIT PROPERLY LEVELED THE DOORS SHOULD BE ALIGNED TO CLOSE PROPERLY AND THE CATCHES RETAIN THE DOOR IN A CLOSED POSITION. PROCEED TO TIGHTEN THE CONNECTING BOLTS COUPLING EACH FRAME. NOW AGAIN CHECK ALL DOORS TO INSURE THAT ELECTRO STATIC FINGER STOCK IS MAKING GOOD CONTACT WITH FRAME. FOR MAIN FRAME POWER CORD CONNECTION. (CORD SHIPPED INSIDE FRAME UNCONNECTED) THE PRIME POWER BOX (PPB-SEE FIG.C, PAGE 12) MUST BE OPENED AND WIRES CONNECTED TO MAIN LINE FILTER AS FOLLOWS:

208/230V 60HZ DOM JAPAN
OR
200V 60HZ JAPAN
OR
200V/220V 50HZ JAPAN

220/235V DELTA OR 380/408V 'Y'
3 Ø 50 HZ

BK (C2-L1)
WHITE (C3-L1)
RED (C4-L1)
GN/YEL (G -11)
SHIELD (GND)

BLUE (380/408V SYSTEMS ONLY) C5-L1
BROWN C2-L1
BROWN (UNITED KINGDOM ONLY) C3-L1
BLACK (W.T. EXCEPT U.K.) C3-L1
BROWN (UNITED KINGDOM ONLY) C4-L1
BLACK (W.T. EXCEPT U.K.) C4-L1
GN/YEL G -11
SHIELD GND

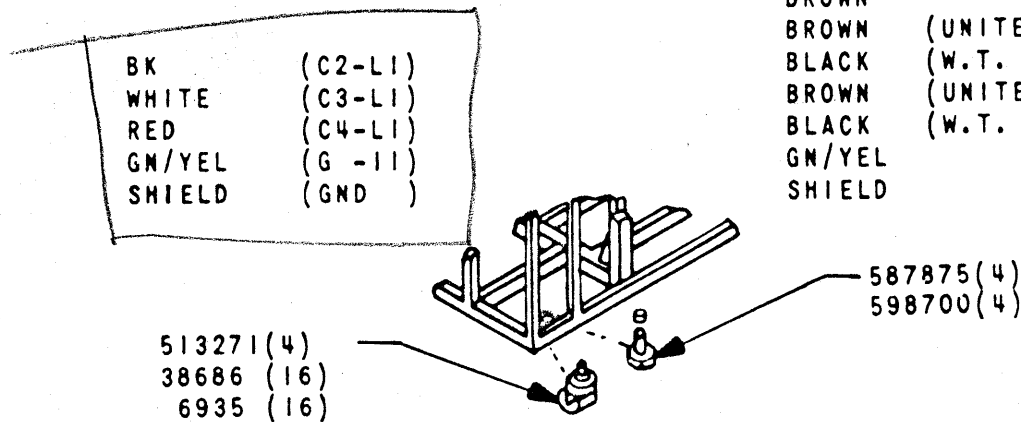


FIGURE 4.1

INSTALLATION OF LEVELING FOOT ASSEMBLIES

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NAME		DATE	CHANGE NO	DATE	CHANGE NO
INSTALLATION INSTRS				SEP80	322670
3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN	SHT 8 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK	CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO	
				YZ000	

1770700 B

1770700

YZ000

5.0 INTER FRAME POWER CONNECTIONS - APPLICABLE ONLY IF OPTIONAL EXPANSION MODULES (FRAMES) ARE BEING INSTALLED.

5.1 INTER FRAME AC POWER CABLES

EACH EXPANSION FRAME WILL HAVE AN AC POWER CABLE WHICH MUST BE INSTALLED BETWEEN THE PRIME POWER BOX IN THE EXPANSION FRAME AND THE PRIME POWER BOX IN THE BASIC FRAME AS SHOWN IN FIGURE A ON PAGE 10. USING CHART A ON PAGE 11 AND FEATURE BILL OF MATERIAL LIST WITHIN THE BASIC FRAME, DETERMINE WHICH VOLTAGE GROUP IS APPLICABLE. REMOVE PRIME POWER BOX COVER IN THE BASIC MACHINE AND EXPANSION FRAMES (SEE FIGURE C PAGE 12) AND ROUTE ALL INTERCONNECTION CABLES UP THRU BOTTOM OF MACHINE (SEE CABLE ROUTING DIAGRAM 5182873 OR FOR A 3706 MODEL J, K OR L 1ST EXP FRAME, SEE DRAWING 1754347) THRU HOLES PROVIDED UNDER PRIME POWER BOX. CONNECT THE NUMBERED WIRE LUGS TO THE APPROPRIATE PRIME POWER (PPB) TERMINATION PANEL (TB3, CBI, ETC.) SCREW NUMBER AS DESIGNATED BY THE APPROPRIATE SECTION OF CHART A. TIGHTLY SECURE EACH CONNECTION.

5.2 POWER SEQUENCE INTERCONNECTIONS

THE 3705 BASIC MACHINE PROVIDES CENTRALIZED POWER ON-OFF SEQUENCE CONTROL SIGNALS WHICH ARE DISTRIBUTED TO THE EXPANSION FRAMES. THIS IS PROVIDED BY A RIBBON CABLE WHICH IS PRE-FOLDED AND TAPED FOR EACH EXPANSION FRAME TO BASIC FRAME CONNECTION AND IS PRE-INSTALLED AND 'FOLDED-BACK' IN THE RACEWAY OF EACH EXPANSION FRAME. FIGURE B ON PAGE 10 AND FIGURE C PAGE 12 SHOW THE GENERAL ROUTING OF THE CABLES; CHART C ON PAGE 13 SHOWS CONNECTION DATA FOR INSTALLATION AT THE BASIC FRAME. EACH CABLE CONSISTS OF A RIBBON BULK WHICH SPLITS AT THE BASIC FRAME END INTO AN SMS CARD PADDLE (TO BE INSTALLED IN AN SMS SOCKET) AND DISCRETE WIRES WITH "SLIP-ON" CONNECTORS (TO BE INSTALLED ONTO SMS SOCKET PINS) CABLE ROUTING DIAGRAM (5182873 OR 1754347) IS SHIPPED WITH THE EXPANSION FRAME SHIPPING GROUP TO PROVIDE DETAILED ROUTING FOR EACH CABLE PART NUMBER IN CHART C

5.3 BUS TO BUS GROUND CABLES.

THE DC GROUND BUSES OF EACH FRAME MUST BE CONNECTED TO EACH OTHER VIA A SINGLE LAYER ALUMINUM FLAT CABLE. ONE END OF THIS CABLE IS PRE-INSTALLED ON THE COMMON DC GROUND PLATE (OXA-WI) IN EACH EXPANSION FRAME AND IS PRE-ROUTED IN THE CABLE RACEWAY ACROSS TO THE OPPOSITE SIDE OF THE FRAME (SEE FIG. B, P.10). AT THIS SIDE OF THE FRAME THE LOOSE END OF THIS FLAT CABLE MUST BE CONNECTED TO THE COMMON DC GROUND PLATE (OXA-WI) OF THE ADJACENT FRAME. THIS CABLE SHOULD BE CONNECTED AT THE SAME TERMINAL ON EACH OF THE GROUND PLATES. SEE CHART B ON PAGE 13 FOR INSTALLATION DATA AND, IF NECESSARY, CONSULT CABLE ROUTING DIAGRAMS (5182873 OR 1754347) IN SHIPPING GROUP. TIGHTLY SECURE EACH CONNECTION

5.4 FRAME POWER SYSTEM INTERMIX (3705 WITH UN-MODIFIED POWER ATTACHED TO A 3706 WITH MODIFIED POWER) SEE PAGE 35.


6.0 MAIN CIRCUIT BREAKER INSPECTION AND POWER JUMPER ADJUSTMENTS

THE BASIC FRAME MAIN CIRCUIT BREAKER (CBI) IS PROVIDED IN FOUR SIZES ACCORDING TO THE FOUR POSSIBLE FRAME COMBINATIONS. INSPECT THE MAIN CIRCUIT BREAKER AMPERAGE RATING AS FOLLOWS:

SUBSYSTEM SIZE	AMPERAGE RATING	
	200-235V	380-408V
BASIC FRAME ONLY	15	15
BASIC FRAME + 1 EXPANSION FRAME	30	15
BASIC FRAME + 2 EXPANSION FRAMES	40	30
BASIC FRAME + 3 EXPANSION FRAMES	50	30

SEE USAGE METER SECTION OF FETMM (PAGE D-240) OR YZ073 FOR METER JUMPER ADJUSTMENT. SEE YZ075 FOR 3.4 VOLT JUMPER ADJUSTMENT FOR 3705-II BASE FRAME.

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			DATE	CHANGE NO	DATE	CHANGE NO	1770700 B
			SEE E/C HISTORY				
NAME	INSTALLATION INSTRS		MAY79	318587	NOV80	344409	
DESIGN		SHT 9 OF 35	SEP79	318544	JAN81	344581	
DETAIL	TS	OCT76	JAN80	321388	AUG81	344872	
CHECK		CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO		
APPRO					YZ000		

1770700 B

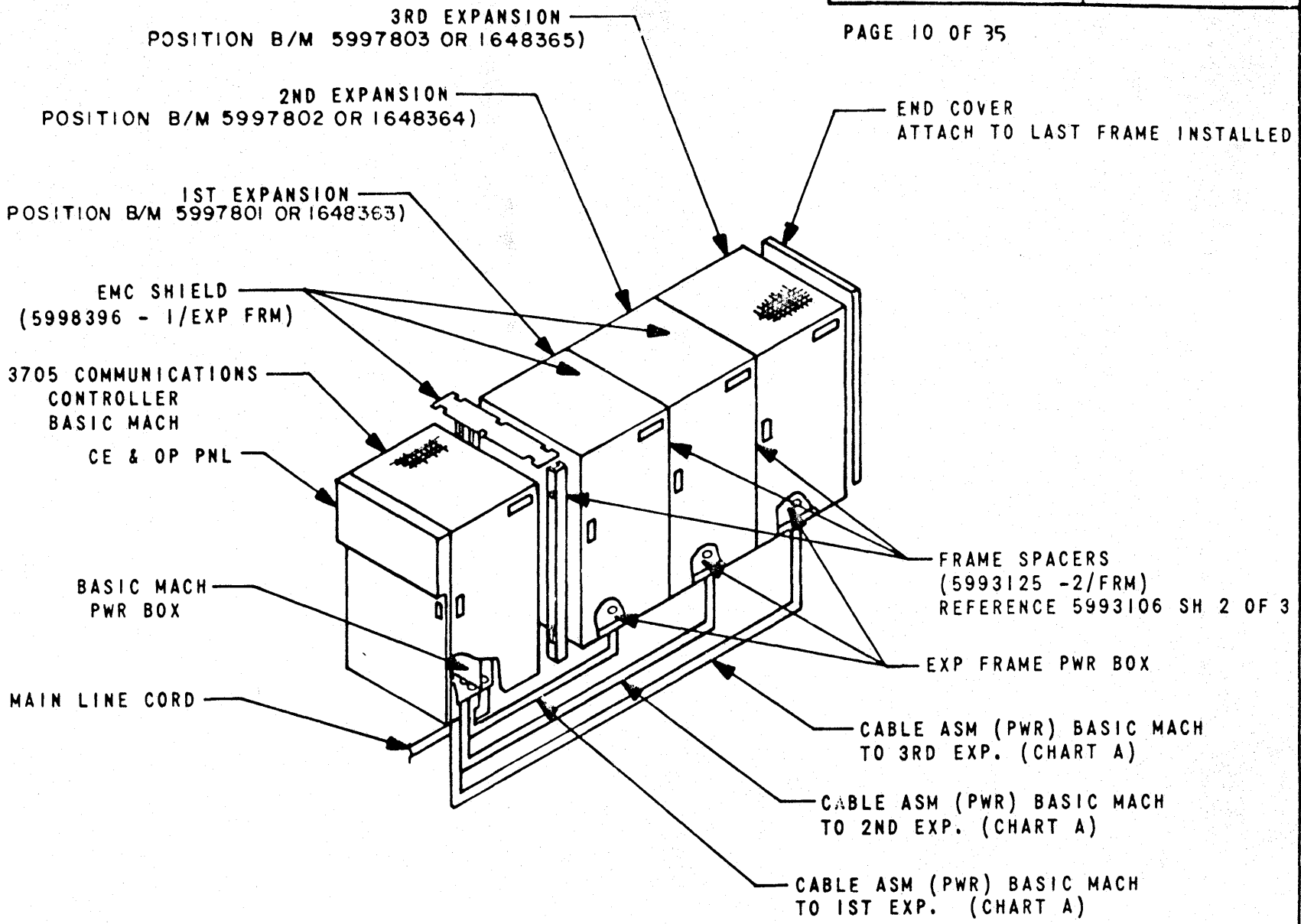


FIGURE A. 3705 COMMUNICATION CONTROLLER AND EXPANSION MODULE INTERCONNECTIONS.

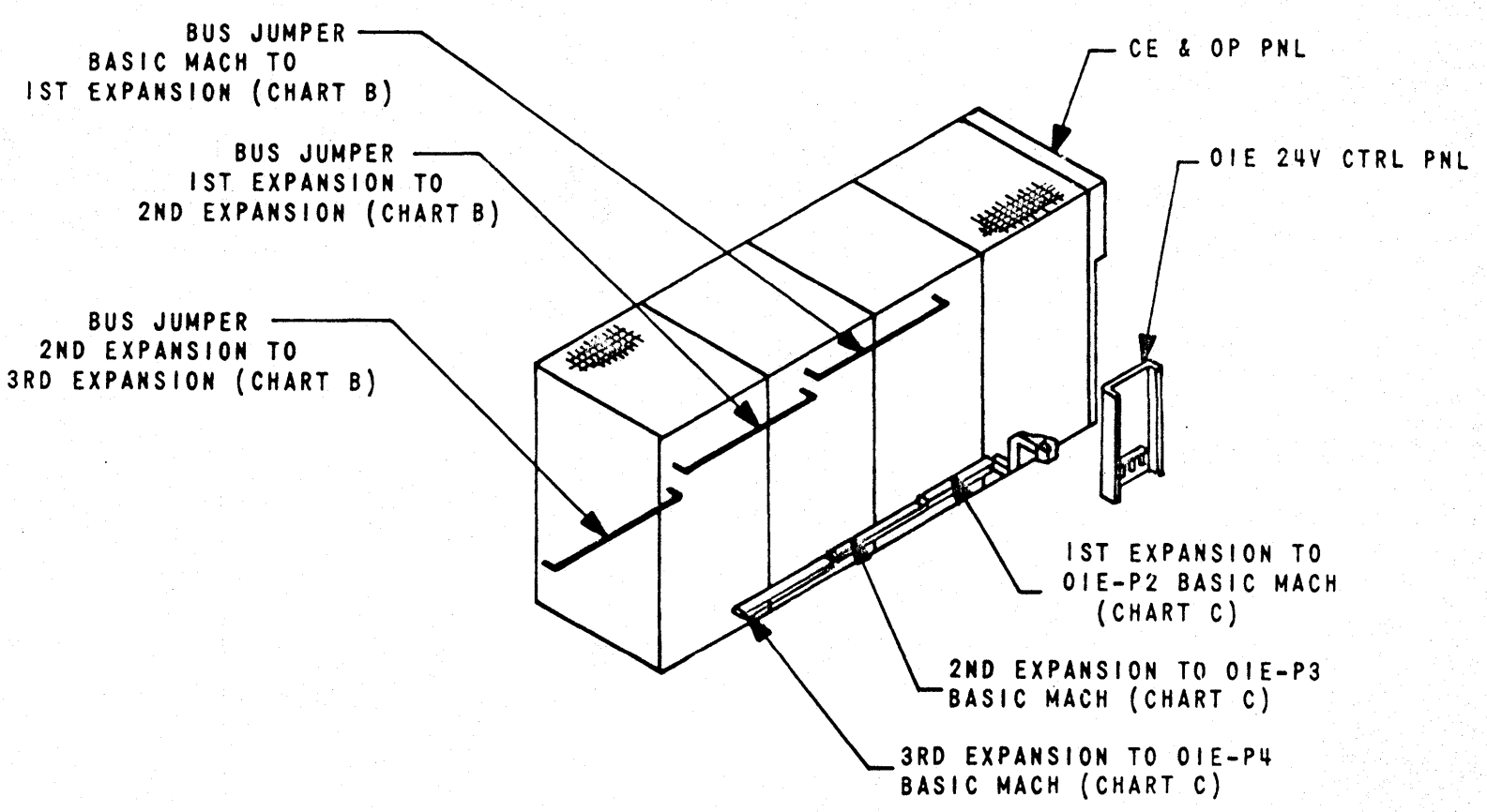


FIGURE B. 3705 COMMUNICATION CONTROLLER AND EXPANSION MODULE INTERCONNECTIONS.

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			DATE	CHANGE NO	DATE	CHANGE NO	1770700 B
			NAME	INSTALLATTON INSTRS		SEE E/C HISTORY	
DESIGN	3705 MODELS A-H		MAY79	318587	NOV80	344409	
DETAIL	TS	OCT76	SEP79	318544	JAN81	344581	
CHECK			JAN80	321388	AUG81	344872	
APPRO			MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO	

VERTICAL ELECTRICAL FORMAT

1770700 B

PART NO
1770700

LOGIC PG. NO
YZ000

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CHART A - PART 1 OF 2 DOMESTIC, CANADA AND JAPAN

VOLTAGE	CABLE P/N	TERMINATION BASIC MACH.	TERMINATION EXPANSION FRM.	WIRE NO.
BASIC 3705 TO 1ST EXPANSION 200V. 60/50 HZ JAPAN OR 220V/50HZ JAPAN	5993276	PPB-TB3-3	PPB-CBI-L3	3(BLACK)
		PPB-TB3-6	PPB-CBI-L2	2(WHITE)
		PPB-TB3-9	PPB-CBI-L1	1(RED)
		GND 7 SCREW	GND 5 SCREW	4(GREEN)
		GND 8 (SHIELD) SCREW		
BASIC 3705 TO 2ND EXPANSION 200V. 60/50 HZ JAPAN OR 220V/50HZ JAPAN	5993277	PPB-TB3-2	PPB-CBI-L3	1(BLACK)
		PPB-TB3-5	PPB-CBI-L2	2(WHITE)
		PPB-TB3-8	PPB-CBI-L1	3(RED)
		GND 6 SCREW	GND 5 SCREW	4(GREEN)
		GND 9 (SHIELD) SCREW		
BASIC 3705 TO 3RD EXPANSION 200V, 60/50 HZ JAPAN OR 220V/50HZ JAPAN	5993275	PPB-TB3-3	PPB-CBI-L3	1(BLACK)
		PPB-TB3-6	PPB-CBI-L2	2(WHITE)
		PPB-TB3-9	PPB-CBI-L1	3(RED)
		GND 5 SCREW	GND 5 SCREW	4(GREEN)
		GND 10 (SHIELD) SCREW		

CHART A - PART 2 OF 2 WORLD TRADE (EXCEPT JAPAN AND CANADA)

VOLTAGE	CABLE P/N	TERMINATION BASIC MACH.	TERMINATION EXPANSION FRM.	WIRE NO.
BASIC 3705 TO 1ST EXPANSION 220/235V, 50 HZ WORLD TRADE 380/407V, 50 HZ WORLD TRADE 380/408V, 50 HZ FRANCE ONLY	5993223	PPB-TB3-3	PPB-CBI-L3	3(BN)
		PPB-TB3-6	PPB-CBI-L2	2(BK)
		PPB-TB3-9	PPB-CBI-L1	1(BK)
		PPB-TB3-10	SEE NOTE A	4(BLUE)
		GND 7 SCREW	GND 5 SCREW	5(GN/YEL)
		GND 8 (SHIELD) SCREW		
BASIC 3705 TO 2ND EXPANSION 220/235V, 50 HZ WORLD TRADE 380/407V, 50 HZ WORLD TRADE 380/408V, 50 HZ WORLD TRADE FRANCE ONLY	5993229	PPB-TB3-2	PPB-CBI-L3	3(BN)
		PPB-TB3-5	PPB-CBI-L2	2(BK)
		PPB-TB3-8	PPB-CBI-L1	1(BK)
		PPB-TB3-10	SEE NOTE A	4(BLUE)
		GND 6 SCREW	GND 5 SCREW	5(GN/YEL)
		GND 9 (SHIELD) SCREW		

CONTINUED ON PAGE 12

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670
	3705 MODELS A-H	MAY79	318587	NOV80	344409
DESIGN		SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK		MUST CONFORM TO ENG 5PLX		DEVELOPMENT NO	
APPRO				LOGIC PG NO	
				YZ000	

1770700 B

620-012-3-1 MROZ 780522203 VERT. M. ELECTRICAL FORMAT

1770700 B

PART NO
1770700

LOGIC PG. NO
YZ000

(CONTINUED FROM PAGE 11)

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CHART A - PART 2 OF 2 WORLD TRADE (EXCEPT JAPAN AND CANADA)(CON'T)

VOLTAGE	CABLE P/N	TERMINATION BASIC MACH.	TERMINATION EXPANSION FRM.	WIRE NO.
220/235V, 50 HZ WORLD TRADE	5993232	PPB-TB3-3	PPB-CBI-L3	3(BN)
		PPB-TB3-6	PPB-CBI-L2	2(BK)
380/408V, 50 HZ WORLD TRADE		PPB-TB3-9	PPB-CBI-L1	1(BK)
PPB-TB3-11		SEE NOTE A	4(BLUE)	
380/408V, 50 HZ FRANCE ONLY		GND 5 SCREW	GND 5 SCREW	5(GN/YEL)
		GND 10 (SHIELD) SCREW		

BASIC
3705 TO
3RD
EXPANSION

NOTE A:

SEE CHART TO THE RIGHT
FOR CONNECTION OF WIRE
NO. 4.

SYSTEM	CONNECT WIRE 4 TO
220/235V	GND 6 SCREW
380/408V FRANCE	PPB-CBI-L4
380/407V OTHER	PPR-KI-2B

CHART A. WIRING CHART FOR CONNECTION OF FRAME A.C. POWER CABLE

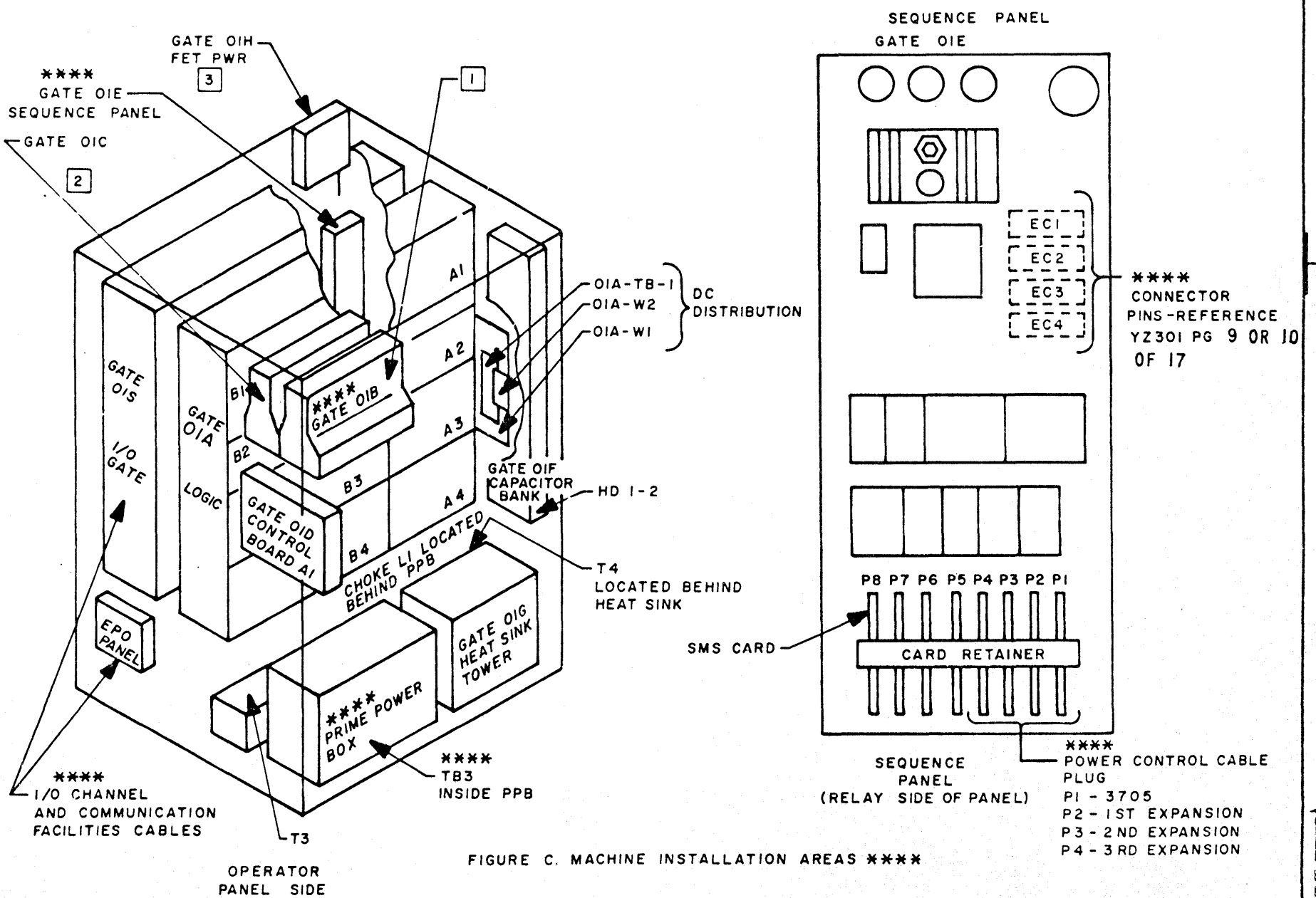


FIGURE C. MACHINE INSTALLATION AREAS ****

NOTES

- 1 3705 MODEL I, OIB--BSM; MODEL II, OIB--FET
- 2 3705 MODEL I, OIC--BSM 2; MODEL II, OIC--33FD FILE
- 3 NOT USED ON 3705 MODEL I

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IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS		SEE E/C HISTORY		SEP80	322670
	3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN		SHT 12 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS	OCT76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO						YZ000

1770700 B

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1770700 B

CABLE P/N	FROM (PRE-INSTALLED)	TO (TO BE CONNECTED)
5993271	1ST EXPANSION OXA-WI = 02A-WI	BASIC MACH OXA-WI = 01A-WI
	2ND EXPANSION OXA-WI = 03A-WI	1ST EXPANSION OXA-WI = 02A-WI
	3RD EXPANSION OXA-WI = 04A-WI	2ND EXPANSION OXA-WI = 03A-WI

CHART B - GROUND BUS CABLES

CABLE P/N	TERMINATION BASIC MACH OIE PNL	CABLE CARD LOC. OR DISCRETE WIRE NO.
5993288	LABEL - J2 - CABLE CARD	LOC. OIE-P2
	PANEL LOC. EC3-F CONN. PIN	WIRES (22,23)
	PANEL LOC. EC3-A CONN. PIN	WIRE 24
	PANEL LOC. EC3-D CONN. PIN	WIRE 26
	PANEL LOC. EC4-A CONN. PIN	WIRE 13
	PANEL LOC. EC4-E CONN. PIN	WIRE 15
5993289	LABEL J3 - CABLE CARD	LOC. OIE-P3
	PANEL LOC. EC3-G CONN. PIN	WIRES (22,23)
	PANEL LOC. EC3-C CONN. PIN	WIRE 24 1
	PANEL LOC. EC4-D CONN. PIN	WIRE 26
	PANEL LOC. EC4-C CONN. PIN	WIRE 13
	PANEL LOC. EC4-G CONN. PIN	WIRE 15
5993290	LABEL J4 - CABLE CARD	LOC. OIE-P4
	PANEL LOC. EC3-H CONN. PIN	WIRES (22,23)
	PANEL LOC. EC3-C CONN. PIN	WIRE 24
	PANEL LOC. EC4-H CONN. PIN	WIRE 26
	PANEL LOC. EC4-C CONN. PIN	WIRE 13
	PANEL LOC. EC4-G CONN. PIN	WIRE 15

BASIC 3705 TO
1ST EXPANSION

BASIC 3705 TO
2ND EXPANSION

BASIC 3705 TO
3RD EXPANSION

CHART C - SEQUENCE CONTROLS (SEE PAGE 35 IF INTERMIX POWER)

1 WIRE #24, CABLE P/N 5993289, CONNECTS TO EC3-B (NOT EC3-C) IF RPQ S30251 IS INSTALLED IN THE 2ND EXPANSION FRAME. (REFER TO YZ599 PROVIDED WITH RPQ S30251.)

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN	SHT 13 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO				LOGIC PG NO	
				YZ000	

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1770700 B

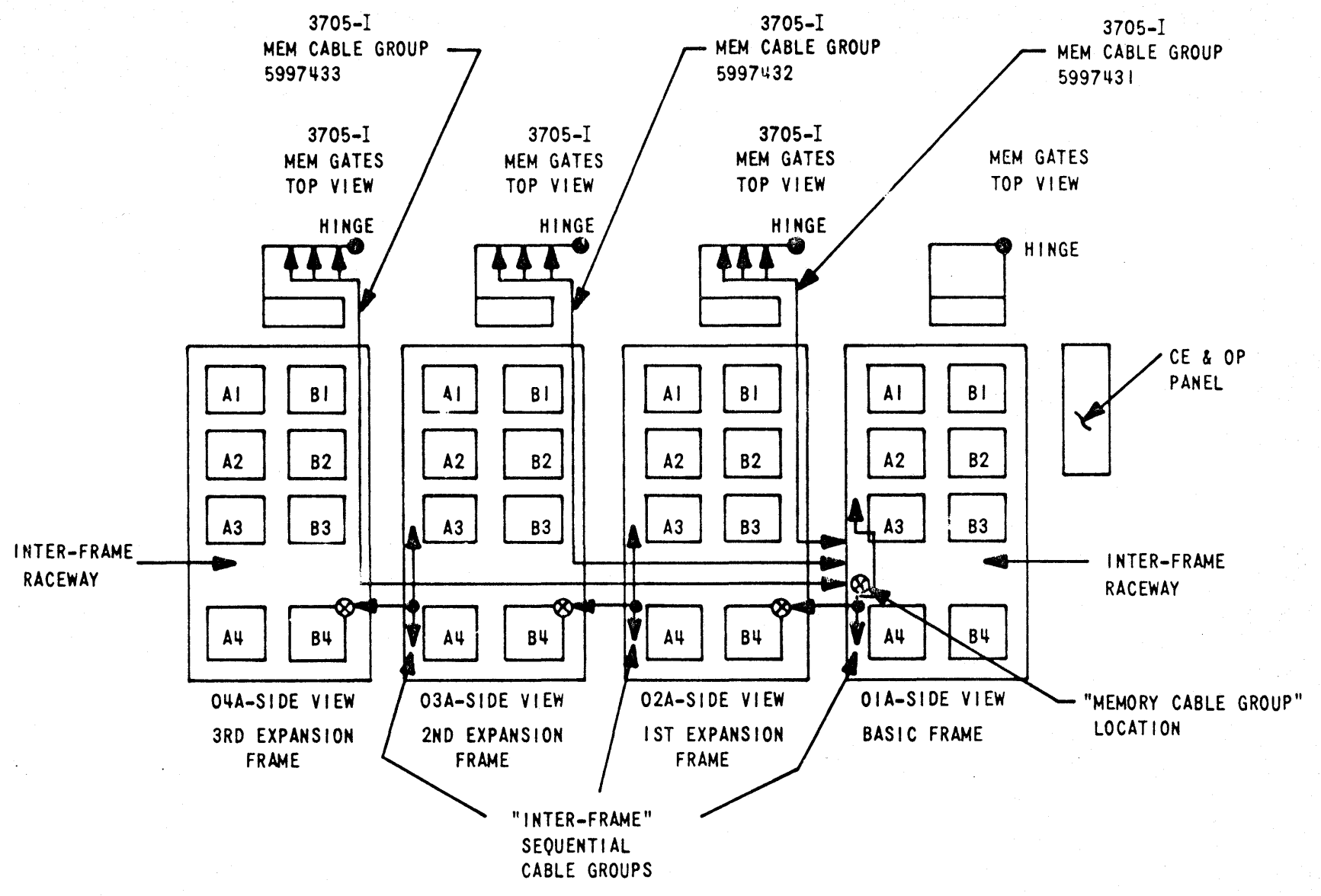
7.0 INTER FRAME FLAT CABLE, TERMINATOR CARD, AND LAST A4 BOARD WIRING REQUIREMENTS

7.1 INTER FRAME FLAT CABLES

ONE END OF THE APPROPRIATE CABLES WILL BE PRE-INSTALLED, THE OTHER ENDS WILL BE TIED-BACK INTO THE CABLE RACEWAY.

OPTIONAL MEMORY CABLES (3705 MODEL I) ARE ROUTED FROM THE O1A-B4 BOARD ON THE BASIC FRAME TO THE MEMORY GATE(S) ON EACH EXPANSION FRAME AND TERMINATED AT THE MEMORY CLOSEST TO THE HINGE. USE "FROM - TO AND FOLD" INFORMATION ON THE CABLE. ALL OTHER CABLES ARE ROUTED FROM THE LAST EXPANSION FRAME TO THE ADJACENT FRAME. USE "FROM - TO AND FOLD" INFORMATION ON THE CABLE.

SEE THE CHART BELOW FOR 3705-I MEMORY CABLING AND THE NEXT SHEET FOR THE REMAINDER OF THE INTER-FRAME CABLES.



7.1 CONTINUED ON NEXT SHEET

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			DATE	CHANGE NO	DATE	CHANGE NO
			SEE EC HISTORY			
NAME			NOV80	344409		
3705 MODELS A-H			JAN81	344581		
DESIGN		SHT 14 OF 35	AUG81	344872		
DETAIL	TS	FEB79	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
CHECK		CLASSIFICATION				YZ000
APPRO						

1770700 B

1770700

YZ000

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7.1 CONTINUED FROM PREVIOUS SHEET

INTER-FRAME ADDRESS, DATA, AND CONTROL CABLE ROUTING

PLUG SEQ	CABLE LOGIC REF	FUNCTION	PLUG LOCATION	REMARKS
A	AB009	ADBUS X.4, X.5	OXA-A4-Y2	APPLIES IF MEM IS OVER 256K. FET MEM IN 3705 AND 3706 1ST EXP FRAME
B	PA060	L3 PRIORITIZATION	O1A-A4-Z2	PRESENT ONLY IF FIRST EXPANSION FRAME CONTAINS CA-4 (S)
C	AB007	SCANNER	OXA-A3-A2	PRESENT ONLY IF EXPANSION FRAME CONTAINS A SCANNER
D	AB008	CONTROL	OXA-A3-A3	
E	AB001	INBUS	OXA-A4-A4	PRESENT IN ALL EXPANSION FRAMES
F	AB002	OUTBUS	OXA-A4-B4	
G	AB003	I/O REG CONTROL	OXA-A4-C4	
H	AB005	ADBUS	OXA-A4-A5	
I	AB006	ADAPTER CTLS	OXA-A4-B5	
J	AB004	CA CTLS, ADBUS	OXA-A4-C5	

7.2 PLUG TERMINATOR CARDS ACCORDING TO THE TABLE BELOW. THE TERMINATOR CARDS MAY ALREADY BE IN POSITION OR MAY HAVE BEEN REMOVED FROM A PRECEDING FRAME WHEN PLUGGING CABLES.

CARD P/N	LOCATION	REMARKS
5864672	OXA-A4-A4 (SEE NOTE BELOW)	PLUG IN A4 BOARD OF LAST FRAME
5862885	OXA-A4-B4	
5862884	OXA-A4-B5	
5862884	OXA-A4-C4	
5862884	OXA-A3-A2	PLUG IN LAST A3 BOARD

NOTE: THE A4A4 TERMINATOR CARD LISTED ABOVE APPLIES ONLY TO 3706 EXPANSION FRAMES ATTACHING TO ONE OF THE FOLLOWING 3705'S:

- a. A 3705 MODEL J, K OR L (CONTAINS FET MEMORY IN 1st 3706).
- b. A 3705 MODEL F, G OR H WITH A 900 NS CYCLE TIME R.P.O. (8Q0054) INSTALLED. (CHECK IN O1A-B3 U5 FOR 17.778 MHZ OSCILLATOR. THE MHZ RATING IS PRINTED ON THE OSCILLATOR CAN).
- c. A 3705 MODEL B, C OR D WITH AN A4 BOARD IN ANY EXPANSION FRAME.

TERMINATOR CARD SOURCE FOR (a) ABOVE IF CONVERTING FROM MODEL E, F, G, OR H TO J, K OR L SUPPLIED BY CONVERSION B/M. THE SOURCE FOR (b) IS THE RPQ B/M. E.C. 318544 SUPPLIES THE CARD FOR A MODEL B, C OR D MACHINE AND SHOULD BE INSTALLED CONCURRENTLY WITH THE INSTALLATION OF AN EXPANSION FRAME WITH AN A4 BOARD PRESENT.

THE FOLLOWING REWORK MUST BE PERFORMED ON THE LAST FRAME'S A4 BOARD ONLY IF THE A4A4 TERMINATOR CARD, P/N 5864672, IS REQUIRED. DEPENDENT UPON THE BOARD P/N INSTALLED, REMOVE THE FOLLOWING WIRE FROM THE LAST FRAME'S A4 BOARD:

	DEL	TYPE	FROM	TO	NET
CA-2 BOARD P/N 5997408 OR 1754346	XXX	YEL	G3B03	A4D11 (NOTE)	QM003GC6
CA-3 BOARD P/N 1785214 OR 1754348	XXX	YEL	G3B03	A4D11	SM003GC6
CA-4 BOARD P/N 1648400	XXX	YEL	F5D09	A4D11	PA107FH6

NOTE: G3B03 MAY BE A BOTTOM WRAP. TOP WRAP GOFS TO A2D11 AND MUST BE ADDED BACK.

ADD THE FOLLOWING WIRE TO THE LAST FRAME'S CA-2, 3 OR 4 BOARD:

NET	ADD	TYPE	LGTH	FROM	TO
-4V	XXX	YEL	6.0	D4B05	A4D11

REVERSE THE ABOVE WIRING ON THE PREVIOUS LAST A4 BOARD

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IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS		SEE EC HISTORY			
	3705 MODELS A-H		NOV80	344409		
DESIGN		SHT 15 OF 35	JAN81	344581		
DETAIL	TS	FEB79	AUG81	344872		
CHECK		CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO	
APPROV					YZ000	

1770700 B

8.0 CHANNEL ADAPTER JUMPERING

SEE FLOW CHART ON PAGE 2 FOR NECESSARY REFERENCE INFORMATION.

9.0 POWER ON AND STAND-ALONE TESTS

AT THIS POINT, BEFORE CONNECTING THE MACHINE TO THE I/O CHANNEL AND BEFORE CONNECTING THE COMMUNICATIONS FACILITIES, IT IS ADVANTAGEOUS TO PERFORM ITEMS 9.1 AND 9.2 BELOW. IN ORDER TO BRING POWER-ON INDEPENDENT OF THE CPU(S) EMERGENCY POWER-OFF (EPO) CABLE. A DUMMY EPO PLUG (5182923) MUST BE PLACED IN ANY ONE OF THE CPU EPO RECEPTACLES J1 THRU J4 (SEE FIG. C, PAGE 12 AND FIG. IN SECTION 10 PAGE 17) IN THE BASIC FRAME. IT IS EXTREMELY IMPORTANT THAT THIS EPO PLUG BE REMOVED WHEN LEFT UNATTENDED. IF UNIT PROTECT FEATURE IS INSTALLED, VERIFY THAT THE UNIT PROTECT KEY IS PROPERLY INSERTED IN ORDER TO ENABLE THE PANEL.

9.1 POWER-ON MEASUREMENTS

POWER SUPPLY MEASUREMENT (AND ADJUSTMENT, IF NECESSARY) PROCEDURES SHOULD BE PERFORMED AS SPECIFIED IN THE 3705 FETM - D.C. VOLTAGE MEASUREMENTS POWER SUPPLY SECTION. BEFORE ACTUAL POWER-ON. PLACE ALL CHANNEL ENABLE/DISABLE SWITCHES IN THE DISABLE POSITION.

9.2 STAND-ALONE HARDWARE CHECK-OUT (INVALID FOR REMOTE PROGRAM LOADER)

THIS TEST IS A VERY SIMPLE CHECKPOINT TO VERIFY THAT THE 3705 PROCESSING UNIT IS AT A FUNDAMENTAL OPERATING LEVEL BEFORE CONTINUING INSTALLATION OR GOING "ON-LINE" TO THE SYSTEM I/O CHANNEL.

9.2.1 PLACE ALL CHANNEL ENABLE/DISABLE SWITCHES IN THE DISABLE POSITION, MODE SELECT SWITCH TO PROCESS, DISPLAY/FUNCTION SELECT TO STATUS, AND DIAGNOSTIC CONTROL SWITCH TO THE PROCESS POSITION.

9.2.2 POWER ON OR DEPRESS CHECK RESET FOLLOWED BY LOAD IF ALREADY POWERED-ON. THE PROCESSING UNIT WILL NOW PERFORM A SELF-TEST AFTER THE POWER CHECK INDICATOR GOES OFF.

9.2.3 IF THE SELF-TEST WAS SUCCESSFUL, THE FOLLOWING LIST WILL REPRESENT THE STATE OF KEY INDICATORS. THE NUMBER IN () REPRESENTS NUMBER OF LIGHTS TO BE CHECKED.

POWER CHECK	STATE	CS CYCLE	STATE
CHAN 1 INTF A OR CHAN 1 ENABLED	OFF ✓	1 CYCLE	ON ✓
CHAN 1 INTF B OR CHAN 2 ENABLED	OFF ✓	CYCLE TIME (2)	ON ✓
CHAN 2 OR 3 INTF A OR CHAN 3 ENABLED	OFF ✓	IPL PHASE (2)	ON ✓
CHAN 2 OR 3 INTF B OR CHAN 4 ENABLED	OFF ✓	ADAPTER CHECK	OFF ✓
CC CHECK	OFF ✓		
PANEL ACTIVE	ON ✓	IN/OUT CHECK	OFF ✓
POWER ON	ON ✓	ADDRESS EXCEPT	OFF ✓
		PROTECT CHECK	OFF ✓
		INVALID OP	OFF ✓
HARD STOP	OFF ✓		
TEST	OFF ✓	PROGRAM LEVEL 1	ON ✓
WAIT	OFF ✓	PROGRAM LEVEL 2	OFF ✓
PROGRAM STOP	OFF ✓	PROGRAM LEVEL 3	OFF ✓
LOAD	ON ✓	PROGRAM LEVEL 4	OFF ✓
CC CHECKS (9)	OFF ✓		

9.2.4 DEPRESS STOP

9.2.5 SET DIAGNOSTIC CONTROL TO STORAGE TEST PATTERN

9.2.6 SET FOUR STORAGE DATA SWITCHES TO HEX AAAA

9.2.7 SET THE DISPLAY/FUNCTION SELECT SWITCH TO THE STORAGE ADDRESS POSITION, DEPRESS START

9.2.8 IF CC CHECK INDICATOR IS OFF, TEST WAS SUCCESSFUL.

9.2.9 DEPRESS RESET.

9.2.10 SET DIAGNOSTIC CONTROL TO STORAGE SCAN.

9.2.11 DEPRESS START.

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IBM		DATE	CHANGE NO	DATE	CHANGE NO	1770700 B
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670	
3705 MODELS A-H		MAY79	318587	NOV80	344409	
DESIGN	SHT 16 OF 35	SEP79	318544	JAN81	344581	
DETAIL	TS OCT76	JAN80	321388	AUG81	344872	
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO		
APPRO						YZ000

VERTICAL ELECTRICAL FORMAT

1770700 B

12.0 INSTALLATION OF COMMUNICATION LINE EXTERNAL CABLING TO FACILITIES.

A CUSTOMIZED LINE SET CONFIGURATION CHART IS PROVIDED WITH EACH INITIAL 3705 (VOL.1) SHIPMENT AND EACH FIELD FEATURE INSTALLATION INVOLVING INSTALLATION OF LINE SETS. THIS CHART KEYS ON LINE ADDRESSES (PHYSICAL) AND GIVES THE LINE SET TYPE INSTALLED, PHYSICAL PARTITION, AND OTHER PERTINENT INFORMATION. THIS CHART SHOULD BE 1ST CORRELATED WITH PHYSICAL CABLE PLANNING DATA (AT SITE) FOR CABLE CODE VERSUS LINE SET TYPE RELATIONSHIPS. THE FOLLOWING CHARTS GIVE LINE ADDRESS VERSUS I/O GATE SOCKET INFORMATION FOR THE INSTALLATION OF THESE EXTERNAL CABLES. ADJUST CABLE RETENTION BAR AS PER SHIPPING DIAGRAM 5993108.

3705 WITH COMMUNICATION SCANNER TYPE 1 (5997374) LINE ADDRESSES VERSUS I/O GATE (OX) SOCKET RELATIONSHIP

ADDRESS	SOCKET	ADDRESS	SOCKET	ADDRESS	SOCKET	ADDRESS	SOCKET
000	A2R2	010	AIR2	020	BIR2	030	B2R2
002	A2R4	012	AIR4	022	BIR4	032	B2R4
004	A2S2	014	AIS2	024	BIS2	034	B2S2
006	A2S4	016	AIS4	026	BIS4	036	B2S4
008	A2T2	018	AIT2	028	BIT2	038	B2T2
00A	A2T4	01A	AIT4	02A	BIT4	03A	B2T4
00C	A2U2	01C	AIU2	02C	BIU2	03C	B2U2
00E	A2U4	01E	AIU4	02E	BIU4	03E	B2U4

3705 WITH COMMUNICATION SCANNER TYPE 2 OR TYPE 3 LINE ADDRESS VERSUS I/O GATE (OX) SOCKET RELATIONSHIP WITHOUT REMOTE OR CA-4 IN THE O1A-B1 BOARD POSITION

ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3
020	A2R2	A2R2	036	AIS4	AIS4	04C	BIU2	BIU2
022	A2R4	A2R4	038	AIT2	AIT2	04E	BIU4	BIU4
024	A2S2	A2S2	03A	AIT4	AIT4			
026	A2S4	A2S4	03C	AIU2	AIU2	050	B2R2	---
028	A2T2	A2T2	03E	AIU4	AIU4	052	B2R4	---
02A	A2T4	A2T4				054	B2S2	---
02C	A2U2	A2U2	040	BIR2	BIR2	056	B2S4	---
02E	A2U4	A2U4	042	BIR4	BIR4	058	B2T2	---
			044	BIS2	BIS2	05A	B2T4	---
030	AIR2	AIR2	046	BIS4	BIS4	05C	B2U2	---
032	AIR4	AIR4	048	BIT2	BIT2	05E	B2U4	---
034	AIS2	AIS2	04A	BIT4	BIT4			---

3705 WITH COMMUNICATION SCANNER TYPE 2 OR TYPE 3 LINE ADDRESS VERSUS I/O GATE (OX) SOCKET RELATIONSHIP WITH REMOTE OR CA-4 IN THE O1A-B1 BOARD POSITION

ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3
020	A2R2	A2R2	030	AIR2	AIR2	040	B2R2	---
022	A2R4	A2R4	032	AIR4	AIR4	042	B2R4	---
024	A2S2	A2S2	034	AIS2	AIS2	044	B2S2	---
026	A2S4	A2S4	036	AIS4	AIS4	046	B2S4	---
028	A2T2	A2T2	038	AIT2	AIT2	048	B2T2	---
02A	A2T4	A2T4	03A	AIT4	AIT4	04A	B2T4	---
02C	A2U2	A2U2	03C	AIU2	AIU2	04C	B2U2	---
02E	A2U4	A2U4	03E	AIU4	AIU4	04E	B2U4	---

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN	SHT 18 CF35	SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK	CLASSIFICATION	DEVELOPMENT NO		LOGIC PG NO	
APPRO				YZ000	

1770700 B

IBM 3705 MODEL A-H

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1ST 3705 EXPANSION FRAME (5997801 OR 1648363) WITH COMMUNICATION SCANNER TYPE 2 OR TYPE 3 LINE ADDRESS VERSUS I/O GATE (0XS) SOCKET RELATIONSHIP

ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3
0A0	A2R2	A2R2	0C0	B1R2	B1R2	0E0	B3R2	_____
0A2	A2R4	A2R4	0C2	B1R4	B1R4	0E2	B3R4	_____
0A4	A2S2	A2S2	0C4	B1S2	B1S2	0E4	B3S2	_____
0A6	A2S4	A2S4	0C6	B1S4	B1S4	0E6	B3S4	_____
0A8	A2T2	A2T2	0C8	B1T2	B1T2	0E8	B3T2	_____
0AA	A2T4	A2T4	0CA	B1T4	B1T4	0EA	B3T4	_____
0AC	A2U2	A2U2	0CC	B1U2	B1U2	0EC	B3U2	_____
0AE	A2U4	A2U4	0CE	B1U4	B1U4	0EE	B3U4	_____
0B0	A1R2	A1R2	0D0	B2R2	B3R2	0F0	B4R2	_____
0B2	A1R4	A1R4	0D2	B2R4	B3R4	0F2	B4R4	_____
0B4	A1S2	A1S2	0D4	B2S2	B3S2	0F4	B4S2	_____
0B6	A1S4	A1S4	0D6	B2S4	B3S4	0F6	B4S4	_____
0B8	A1T2	A1T2	0D8	B2T2	B3T2	0F8	B4T2	_____
0BA	A1T4	A1T4	0DA	B2T4	B3T4	0FA	B4T4	_____
0BC	A1U2	A1U2	0DC	B2U2	B3U2	0FC	B4U2	_____
0BE	A1U4	A1U4	0DE	B2U4	B3U4	0FE	B4U4	_____

2ND 3705 EXPANSION FRAME (5997802 OR 1648364) WITH COMMUNICATION SCANNER TYPE 2 OR TYPE 3 LINE ADDRESS VERSUS I/O GATE (0XS) SOCKET RELATIONSHIP

ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3
120	A2R2	A2R2	140	B1R2	B1R2	160	B3R2	_____
122	A2R4	A2R4	142	B1R4	B1R4	162	B3R4	_____
124	A2S2	A2S2	144	B1S2	B1S2	164	B3S2	_____
126	A2S4	A2S4	146	B1S4	B1S4	166	B3S4	_____
128	A2T2	A2T2	148	B1T2	B1T2	168	B3T2	_____
12A	A2T4	A2T4	14A	B1T4	B1T4	16A	B3T4	_____
12C	A2U2	A2U2	14C	B1U2	B1U2	16C	B3U2	_____
12E	A2U4	A2U4	14E	B1U4	B1U4	16E	B3U4	_____
130	A1R2	A1R2	150	B2R2	B3R2	170	B4R2	_____
132	A1R4	A1R4	152	B2R4	B3R4	172	B4R4	_____
134	A1S2	A1S2	154	B2S2	B3S2	174	B4S2	_____
136	A1S4	A1S4	156	B2S4	B3S4	176	B4S4	_____
138	A1T2	A1T2	158	B2T2	B3T2	178	B4T2	_____
13A	A1T4	A1T4	15A	B2T4	B3T4	17A	B4T4	_____
13C	A1U2	A1U2	15C	B2U2	B3U2	17C	B4U2	_____
13E	A1U4	A1U4	15E	B2U4	B3U4	17E	B4U4	_____

3RD 3705 EXPANSION FRAME (5997803 OR 1648365) WITH COMMUNICATION SCANNER TYPE 2 OR TYPE 3 LINE ADDRESS VERSUS I/O GATE (0XS) SOCKET RELATIONSHIP

ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3	ADDRESS	SOCKET WITH CS2	SOCKET WITH CS3
1A0	A2R2	A2R2	1C0	B1R2	B1R2	1E0	B3R2	_____
1A2	A2R4	A2R4	1C2	B1R4	B1R4	1E2	B3R4	_____
1A4	A2S2	A2S2	1C4	B1S2	B1S2	1E4	B3S2	_____
1A6	A2S4	A2S4	1C6	B1S4	B1S4	1E6	B3S4	_____
1A8	A2T2	A2T2	1C8	B1T2	B1T2	1E8	B3T2	_____
1AA	A2T4	A2T4	1CA	B1T4	B1T4	1EA	B3T4	_____
1AC	A2U2	A2U2	1CC	B1U2	B1U2	1EC	B3U2	_____
1AE	A2U4	A2U4	1CE	B1U4	B1U4	1EE	B3U4	_____
1B0	A1R2	A1R2	1D0	B2R2	B3R2	1F0	B4R2	_____
1B2	A1R4	A1R4	1D2	B2R4	B3R4	1F2	B4R4	_____
1B4	A1S2	A1S2	1D4	B2S2	B3S2	1F4	B4S2	_____
1B6	A1S4	A1S4	1D6	B2S4	B3S4	1F6	B4S4	_____
1B8	A1T2	A1T2	1D8	B2T2	B3T2	1F8	B4T2	_____
1BA	A1T4	A1T4	1DA	B2T4	B3T4	1FA	B4T4	_____
1BC	A1U2	A1U2	1DC	B2U2	B3U2	1FC	B4U2	_____
1BE	A1U4	A1U4	1DE	B2U4	B3U4	1FE	B4U4	_____

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IBM			DATE	CHANGE NO	DATE	CHANGE NO	1770700 B
NAME	INSTALLATION INSTRS		SEE EC HISTORY		SEP80	322670	
3705 MODELS A-H			MAY79	318587	NOV80	344409	
DESIGN		SHT 19 OF 35	SEP79	318544	JAN81	344581	
DETAIL	RTS	NOV76	JAN80	321388	AUG81	344872	
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC.		DEVELOPMENT NO		LOGIC PG NO
APPRO						YZ000	

620 0133 1 MROZ 76052203 VERTICAL ELECTRICAL FORMAT

1770700 B

13.0 INSTALLATION OF SECOND CHANNEL ADAPTER SWITCH

THIS SECTION IS REQUIRED ONLY WHEN INSTALLING THE FIRST EXPANSION FRAME WITH A CHANNEL ADAPTER TYPE 2 OR 3 INSTALLED TO AN EXISTING 3705 FRAME.

- 13.1 IF A CHANNEL ADAPTER TYPE 3 IS INSTALLED IN THE EXPANSION FRAME AND EC 311059 IS NOT INSTALLED ON THE 3705, (CHECK HISTORY) BM 1785218 MUST BE INSTALLED NOW. REFER TO INSTRUCTIONS SUPPLIED ON THE BM.
- 13.2 INSTALLATION OF SECOND CHANNEL INTERFACE SWITCH AND INDICATOR ASSEMBLIES. B/M 5182875 OR 5182876 OR 5182877 OR 1785285 OR 1785286 OR 1785287.

NOTE: DWG 5993155 ACCOMPANIES THE SHIPPING GROUP. REFER TO CHART A, SHEET 3. YOU WILL BE INSTALLING LENS, LAMPS AND LAMP HOLDERS IN POSITIONS 2 AND 10. ALSO A SWITCH IN POSITION 6 FOR A TYPE 2 CHANNEL OR TWO SWITCHES P/N 725347 IN POSITIONS 6 AND 14 FOR A TYPE 3 CHANNEL, CHART A SUPPLIES P/N OF LENS AND BUTTONS ASSOCIATED WITH THE DIFFERENT LANGUAGE FEATURES, PHYSICAL LOCATION OF THESE INDICATORS & SWITCH IS SHOWN ON SHEET 2 COORDINATE E-3.

- 13.3 REMOVE AND DISCARD BLANK BUTTONS IN POSITION 2 AND 10. THESE BUTTONS ARE FRICTION FITTED AND CAN BE REMOVED FROM THE FRONT SIDE OF THE OP PANEL. IF SPRINGS ARE FOUND BEHIND THESE BUTTONS REMOVE AND DISCARD.
- 13.4 INSTALL LAMP 98608 AND LAMP HOLDER 827840 IN POSITION 2 AND 10. HOUSING 827841 IS ALREADY MOUNTED.
- 13.5 INSERT BUTTONS IN POSITION 2 AND 10. THESE BUTTONS ARE FRICTION FITTED AND CAN BE INSERTED FROM THE FRONT SIDE OF THE PANEL. SEE CHART A FOR PART NUMBERS FOR EACH POSITION.
- 13.6 IF A CA-2 IS INSTALLED IN THE 3706, REMOVE AND DISCARD BLANK BUTTON IN POSITION 6. THIS BUTTON IS HELD BY TWO SCREWS THROUGH THE BACKPLATE. INSTALL SWITCH 737901 AND BUTTON ASSEMBLY IN POSITION 6. THE BUTTON IS INSERTED FROM THE FRONT AND IS THREADED. THE SWITCH SCREWS INTO THE BUTTON FROM THE BACK PANEL. OBSERVE NOTE 3 (DWG 5993155) WHEN MOUNTING SWITCH. GO TO 13.8
- 13.7 IF A CA-3 IS INSTALLED IN THE 3706 AND IS TO BE CONNECTED TO A REMOTE CONFIGURATION PANEL GO TO 13.8. IF THE CA-3 IS NOT TO BE CONNECTED TO A REMOTE CONFIGURATION PANEL REMOVE BLANK BUTTONS IN POSITION 6 AND 14. INSTALL SWITCHES P/N 725347 (2) AND BUTTONS IN POSITION 6 AND 14. REFER TO STEP 13.6.
- 13.8 YOU WILL FIND LUGGED WIRES TAPED BACK INTO BODY OF CABLE 5993202. REMOVE THIS TAPE AND WIRE CABLE TO LAMP AND SWITCH ASSEMBLIES AS FOLLOWS FOR TYPE 2 CHANNEL ADAPTER ONLY. REFER TO SYSTEM PAGE SA072 FOR TYPE 3 CHANNEL ADAPTER SWITCH WIRING. IF THE TYPE 3 CHANNEL ADAPTER IS TO BE CONNECTED TO A REMOTE CONFIGURATION PANEL, THE WIRES WILL BE CONNECTED TO THE REMOTE INTERFACE ENABLE/DISABLE SWITCH CABLE.

WIRE #	POSITION	TERM.
173	LAMP 2	A (TOP)
198-199	LAMP 2	B
157	SWITCH 6	1
158-180	SWITCH 6	2
156	SWITCH 6	3
160	SWITCH 6	4
180	SWITCH 6	5
159	SWITCH 6	6
174	LAMP 10	A
161-236	LAMP 10	B

- 13.9 INSTALL CABLE P/N 1785217 FOR A CHANNEL ADAPTER TYPE 3 IN THE FIRST EXPANSION FRAME.

13.9.1 FOR EASE OF INSTALLATION REMOVE EPO PANEL FROM FRAME BY REMOVING THE TWO MOUNTING SCREWS AND WASHERS.

13.9.2 LOCATE CABLE ASSEMBLY P/N 1785217 AND SPRING (P/N 5236960) SUPPLIED WITH 3706. SLIDE SPRING CLIP OVER CABLE UNTIL IT SEATS AGAINST THE SIX PIN CABLE CONNECTOR. THE FINGERS ON THE SPRING CLIP SHOULD EXTEND OVER THE CONNECTOR. INSTALL THE CABLE ASSEMBLY IN SPARE CONNECTOR

(CONTINUED ON PAGE 21)

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VERTICAL ELECTRICAL FORMAT
420 013 1
URGE 780522203

IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN	SHT 20 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO				LOGIC PG NO	
				YZ000	

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PART NO
1770700

LOGIC PG. NO
YZ000

13.9.2 (CONTINUED)

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POSITION J8 OF THE EPO PANEL. THE CABLE WILL HAVE TO BE FED THRU THE MOUNTING HOLE FROM THE FRONT OF THE PANEL. ATTACH THE CONNECTOR TO EPO PANEL WITH SCREW P/N 251970 (2).

- 13.9.3 ROUTE CABLE TO AREA OF CONTROL PANEL. FOLLOW FRAME MEMBERS TO THE CHANNEL BETWEEN BOARDS 01A-A2 AND 01A-A3, THEN ROUTE ALONG SIDE OF EXISTING CABLES INSTALLED TO THE OPERATOR'S PANEL. SECURE TO EXISTING CABLES AND MACHINE FRAME MEMBERS USING CABLE TIES P/N 556450.
- 13.9.4 ATTACH TWO TABS P/N 5271288 TO EPO PANEL BELOW CONNECTOR (INSTALLED IN 13.9.2) USING SCREW P/N 236550, LOCKWASHER P/N 338169, AND NUT P/N 37913. INSTALL ONE TAB ON EACH SIDE OF EPO PANEL. CONNECT GND FROM CABLE TO BACK TAB.
- 13.9.5 RE-INSTALL EPO PANEL. BE SURE STAR WASHER IS LOCATED UNDER REAR SCREW BETWEEN EPO PANEL AND MACHINE FRAME MEMBER.
- 13.9.6 INSTALL LABEL P/N 1785912 ON HORIZONTAL FRAME MEMBER BELOW THE J8 POSITION OF EPO PANEL.
- 13.9.7 TERMINATION OF CABLE ASM P/N 1785217 AT OPERATOR'S PANEL.
 - 13.9.7.1 WITH REMOTE ENABLE/DISABLE CAPABILITY: SLIP A LENGTH OF SHRINK TUBING P/N 535395 (1.75 (44,4) LONG) OVER EACH LEAD OF CABLE P/N 1785217 AND CONNECT TO WIRES OF MAIN CE/OP PANEL CABLE AS DESCRIBED ON SA072. SLIDE THE SHRINK TUBING OVER CABLE TERMINALS AND HEAT SHRINK.
 - 13.9.7.2 WITHOUT REMOTE ENABLE/DISABLE CAPABILITY: CONNECT THE WIRES FROM CE/OP PANEL CABLE TO SWITCHES AS DESCRIBED ON SA072. TAPE THE END OF CABLE P/N 1785217 INSULATING THE INDIVIDUAL TERMINALS AND TIE BACK TO BODY OF THE MAIN CE/OP PANEL CABLE.

14.0 INSTALLATION OF LOCALLY ATTACHED 2740'S WITHOUT STATION CONTROL:

THIS SECTION IS REQUIRED ONLY WHEN ATTACHING 2740'S WITHOUT STATION CONTROL TO A LINE SET IC (5997477) OR ID (5997351). REFER TO LOGIC VA000 FOR CARD LOCATIONS.

- 14.1 IF A 2740 W/O STATION CONTROL IS BEING ATTACHED TO THE EVEN NUMBERED LINE OF THE LINE SET PAIR, JUMPER PIN B10 TO PIN D10 ON THE LINE SET DRIVER (CARD CODE 7573).
- 14.2 IF A 2740 W/O STATION CONTROL IS BEING ATTACHED TO THE ODD NUMBERED LINE OF THE LINE SET PAIR, JUMPER PIN G10 TO PIN J10 ON THE LINE SET DRIVER (CARD CODE 7573).
- 14.3 INFORM THE S.E. OR THE CUSTOMER THAT THE LOCALLY ATTACHED 2740'S WITHOUT STATION CONTROL MUST BE SYSGENED HALF-DUPLEX.

15. REMOTE PROGRAM LOADER SIGNAL CABLE INSTALLATION (3705-I ONLY)

- 15.1 A SIGNAL CABLE, PART NUMBER DEPENDENT ON THE NUMBER OF FRAMES IN THE 3705 CONFIGURATION, MUST BE INSTALLED FROM THE BASE OF THE 33FD FILE MOUNTING ASSEMBLY, SOCKET P2, LOCATED IN THE LAST FRAME OF THE 3705 CONFIGURATION, TO THE BASIC FRAME, BOARD POSITION 01A-A4V2. REFER TO TABLE BELOW FOR APPROPRIATE CABLE PART NUMBER; USE CABLE ROUTING DRAWING 1851901. ONE END OF THE APPROPRIATE CABLE WILL BE PRE-INSTALLED AT THE 33FD FILE MOUNTING ASSEMBLY. ROUTE CABLE ALONG CABLE RACEWAY

	CABLE PN	CABLE FEATURE BM
3705 A MODELS (ONE FRAME CONFIGURATION)	BM 1851931	1851891 OR 1851895
3705 B MODELS (TWO FRAME CONFIGURATION)	BM 1851932	1851892 OR 1851896
3705 C MODELS (THREE FRAME CONFIGURATION)	BM 1851933	1851893 OR 1851897
3705 D MODELS (FOUR FRAME CONFIGURATION)	BM 1851934	1851894 OR 1851898

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H		MAY79	318587	NOV80	344409
DESIGN		SEP79	318544	JAN81	344581
DETAIL	TS OCT76	JAN80	321388	AUG81	344872
CHECK		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO				LOGIC PG NO	
				YZ000	

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YZ000

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16. DISKETTE INSTALLATION

REMOVE A CONFIGURED DISKETTE WHICH IS STORED ON THE INSIDE OF THE COVER DOOR; REMOVE DISKETTE FROM THE CLEAR PLASTIC SHIPPING PACKAGE AND ENVELOPE. INSTALL DISKETTE IN 33FD FILE; ORIENT THE DISKETTE IN ORDER THAT THE LABEL IS FACING THE INSTALLER. TWO IDENTICAL DISKETTES ARE PROVIDED IN CASE ONE IS DAMAGED. (TO OPEN THE 33FD, PRESS THE LATCH WHICH IS LOCATED ON THE FRONT OF THE 33FD DRIVE UNIT)

17. REMOTE POWER AND STAND ALONE TESTS

AT THIS POINT BEFORE CONNECTING THE COMMUNICATION FACILITIES, IT IS ADVANTAGEOUS TO PERFORM THE TWO PROCEDURES BELOW. DISABLE ALL ATTACHED CHANNEL ADAPTERS (IF ANY) BEFORE PROCEEDING.

17.1 POWER ON MEASUREMENTS.

POWER SUPPLY MEASUREMENT AND PROCEDURES (AND ADJUSTMENTS IF NECESSARY) SHOULD BE PERFORMED AS SPECIFIED IN THE 3705 FETMM - DC VOLTAGE MEASUREMENTS - POWER SUPPLY SECTION. BEFORE POWERING ON VERIFY THAT EITHER AN EPO CABLE OR A DUMMY EPO PLUG (5182923) IS INSTALLED IN ANY ONE OF THE EPO RECEPTACLES J1 THRU J4 (SEE FIGURE C PAGE 12 AND FIGURE IN SECTION 10 PAGE 17) IN THE BASIC FRAME.

17.2 REMOTE HARDWARE CHECK OUT.

THIS TEST IS A CHECKPOINT TO VERIFY THAT THE REMOTE 3705 IS AT A FUNDAMENTAL OPERATING LEVEL BEFORE CONTINUING INSTALLATION OR INSTALLING COMMUNICATION LINES.

- ✓ 17.2.0 PLACE ALL CHANNEL ADAPTER SWITCHES TO DISABLE.
- ✓ 17.2.1 PLACE THE PANEL MODE SELECT SWITCH TO PROCESS.
- ✓ 17.2.2 PLACE THE DISPLAY/FUNCTION SELECT SWITCH TO STATUS
- ✓ 17.2.3 PLACE THE DIAGNOSTIC CONTROL SWITCH TO PROCESS.
- ✓ 17.2.4 PLACE IN THE ROTARY ADDRESS/DATA SWITCHES A THROUGH E THE VALUE X'ODDDD'
- 17.2.5 IF THE UNIT PROTECTION FEATURE IS INSTALLED, VERIFY THAT THE UNIT PROTECTION KEY IS PROPERLY INSERTED IN ORDER TO ENABLE THE PANEL.
- ✓ 17.2.6 DEPRESS THE POWER ON BUTTON. AFTER THE POWER CHECK INDICATOR LIGHT GOES OFF, DEPRESS THE INTERRUPT PUSHBUTTON.

IF ALREADY POWERED ON, DEPRESS THE RESET PUSHBUTTON, FOLLOWED BY DEPRESSING THE LOAD THEN INTERRUPT PUSHBUTTON.

THE PROCESSING UNIT WILL NOW PERFORM A SELF-TEST. THIS TEST SHOULD LAST FOR APPROXIMATELY THIRTY SECONDS IF SUCCESSFUL; OR IF NOT SUCCESSFUL, THE UNIT MAY POSSIBLY RUN FOR APPROXIMATELY THREE MINUTES BEFORE THE MACHINE HARD STOPS.

17.2.7 IF THE SELF-TEST WAS SUCCESSFUL, THE FOLLOWING LIST WILL REPRESENT THE STATE OF KEY INDICATORS. (PLACE THE DISPLAY/FUNCTION SELECT SWITCH TO "STATUS")

POWER CHECK	OFF ✓	ADDRESS COMPARE	OFF
CC CHECK	OFF ✓	IPL PHASE (2 INDICATORS)	OFF
PANEL ACTIVE	ON ✓	ADAPTER CHECK	OFF
POWER ON	ON ✓	IN/OUT CHECK	OFF
HARD STOP	ON	ADDRESS ACCEPT	OFF
TEST	ON	PROTECT CHECK	OFF
WAIT	ON	INVALID OP	OFF
PROGRAM STOP	ON	C LATCH	OFF
LOAD	OFF	Z LATCH	ON
CC CHECKS (9 INDICATORS)	OFF	PROGRAM LEVEL 1	OFF
CS CYCLE	OFF	PROGRAM LEVEL 2	OFF
I CYCLE	OFF	PROGRAM LEVEL 3	OFF
CYCLE TIME (2 INDICATORS)	ON	PROGRAM LEVEL 4	ON

(CONTINUED ON PAGE 23)

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS			SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H				MAY79	318587	NOV80	344409
DESIGN			SHT 22 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS	OCT76		JAN80	321388	AUG81	344872
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO						LOGIC PG NO	
						YZ000	

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17.2.7 CONTINUED

PLACE THE DISPLAY/FUNCTION SELECT SWITCH IN STORAGE ADDRESS POSITION; IF TEST WAS SUCCESSFUL, BYTE 0 AND BYTE 1 OF DISPLAY A AND B SHOULD CONTAIN HEX 'FFFF'.
IF THIS SELF TEST WAS UNSUCCESSFUL, REFER TO THE REMOTE PROGRAM LOADER DIAGNOSTIC MANUAL FOR SYSTEMATIC TROUBLESHOOTING PROCEDURE.

17.2.8 UPON SUCCESSFUL COMPLETION OF PARAGRAPH 17.2.7, PERFORM THE FOLLOWING STORAGE TEST PATTERN TEST

17.2.8.1 SET DIAGNOSTIC CONTROL TO STORAGE TEST PATTERN

17.2.8.2 SET THE STORAGE DATA SWITCHES TO HEX 'AAAAA' AND DEPRESS START.

17.2.8.3 IF THE CC CHECK INDICATOR IS OFF, TEST WAS SUCCESSFUL. DEPRESS RESET.

17.2.9 PERFORM THE FOLLOWING STORAGE SCAN TEST.

17.2.9.1 SET DIAGNOSTIC CONTROL TO STORAGE SCAN.

17.2.9.2 DEPRESS START. IF THE CC CHECK INDICATOR IS OFF, TEST IS SUCCESSFUL.

17.2.10 REPEAT 17.2 THRU 17.2.7.

18. INTERNAL FUNCTION TESTS.

18.1 VERIFY THAT THE CONFIGURATION OF FEATURES AND LINE SETS ARE THE SAME AS THAT SHIPPED FROM THE MANUFACTURING PLANT. IF THE MACHINE CONFIGURATION HAS CHANGED, AN ALTERATION OF THE CONFIGURATION DATA SET (CDS), PREVIOUSLY WRITTEN ON THE DISKETTE AT THE PLANT, IS REQUIRED. REFER TO THE REMOTE PROGRAM LOADER DIAGNOSTIC MANUAL, FOR AN EXPLANATION OF THIS PROCEDURE.

18.2 RUN THE IFT'S FOR THE REMOTE 3705 AS EXPLAINED IN THE REMOTE PROGRAM LOADER DIAGNOSTIC MANUAL.

19. DEFINE LINE ADDRESS FOR REMOTE LINK AND CONTINUE DOWN LINE TESTS.

19.1 BEFORE A COMMUNICATION LINK IS ESTABLISHED BETWEEN THE REMOTE 3705 AND A LOCAL 3705/4, THE LINE ADDRESS FOR THIS LINK LINE MUST BE DEFINED AND CONFIGURED ON THE DISK. REFER TO THE REMOTE PROGRAM DIAGNOSTIC MANUAL, FOR AN EXPLANATION OF THIS PROCEDURE.

19.2 COMPLETE DIAGNOSTIC TESTING OF THE REMOTE 3705 BY RUNNING THE DOWN LINE TERMINAL TESTS.

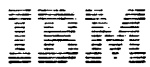
20. CHECK OUT OF UNIT PROTECTION FEATURE. PLACE THE MACHINE IN A DIAGNOSTIC LOOP MODE, REMOVE THE UNIT PROTECTION KEY FROM ITS SOCKET. AT THIS POINT, THE PANEL ACTIVE INDICATOR WILL TURN OFF AND THE DEPRESSION OF ANY OTHER PANEL PUSHBUTTON (EXCEPT POWER ON/OFF) WILL NOT HAVE AN EFFECT ON MACHINE OPERATION. REINSERT THE UNIT PROTECTION KEY AND ENABLE THE PANEL.

21. CHECK OUT OF REMOTE POWER OFF FEATURE: THIS FEATURE PROVIDES THE CAPABILITY OF POWERING THE 3705 DOWN UNDER PROGRAM CONTROL WHEN BYTE 0 BIT 4 IS EQUAL TO 1 AND IS STORED INTO HARDWARE REGISTER HEXIDEcimal '79'. PERFORM THIS OPERATION MANUALLY FROM THE OPERATOR CONTROL PANEL, AND VERIFY THAT THE MACHINE POWERS DOWN WITHOUT ABNORMAL POWER CHECKS. POWER THE 3705 ON AND VERIFY THAT IT POWERS ON WITHOUT ANY POWER CHECKS.

22. INSTALLATION OF KICK PLATES. SEE DIAGRAM 5993106 IN SHIPPING GROUP.

23. LOCATE REMOTE SHIPPING GROUP (FEAT BM 1851867), REMOVE LOGIC PAGE TMO20 (PN 2305606) AND PLACE IN FRONT OF REMOTE LOGIC BINDER VOLUME 17.

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			DATE	CHANGE NO	DATE	CHANGE NO
			SEE E/C HISTORY		SEP80	322670
NAME			INSTALLATION INSTRS			
3705 MODEL A-H			MAY79	318587	NOV80	344409
DESIGN		SHT 23 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS	OCT76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO					LOGIC PG NO	
					YZ000	

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24. IF THE 3706 IS BEING ATTACHED TO A 3705-I EC 314416 MUST BE INSTALLED ON THE 3705 FOR THE TYPE 3 SCANNER TO FUNCTION. THE NECESSARY REWORK IS AS FOLLOWS:

BOARD-01A-B3 PN-5997402 PREVIOUS EC-310262 PRESENT EC-314416

DELETE				ADD				
DELETE PROBE	CARD	PINS IN NET	NET IMAGE	ADD	WIRE TYPE	LGTH	FROM	TO
1		M5D05	AA002DM7	XXX	YEL	15.0 (381)	A4D09	T5B08
1		A4D09	P P					
			CP001GG2	XXX	YEL	15.0 (381)	A5D09	T4D04
2	0		TOTALS	2				

ADD LABEL TO BOARD INDICATING EC 314416 IS INSTALLED.

25. 3705 JUMPERING AND CARD REFERENCE INFORMATION

LOGIC REFERENCE					
FEATURE	BOARD JUMPERS	CARD JUMPERS	TERMINATOR CARDS	SOCKET LISTING	CARD SUBSTITUTION
CHANNEL ADAPTERS CA1 CA2 CA3 CA4 DUMMYA4 BOARD	RA052 QA070 SA070 PA048 (SEE □)	RA050-RA052 QA070-QA071 SA070-SA071 PA048	RA001 QA001 SA001 PA001	RA000 QA000 SA000 PA000	RA000A1
COMMUNICATIONS SCANNERS CS1 CS2 CS3	TE262		TA000* TD000	RA000 TA000 TE000,TF000	TA000A1
LIBS	V*002 *:REFER X:REFER	V*00X TO SPECIFIC TO SPECIFIC	V*002 LIB TYPE LIB TYPE	V*000	V*000
CCU	AJ001- AJ003			DZ001- DZ002	DZ001A
STORAGE 16K-BSM 32K-BSM FET	SR229 SR200 MM000, YZ195	SR254 SR254	SR227 SR200	SR227 SR224 MM000	
REMOTE PROGRAM LOADER				GA000(MOD I) GE000(MOD II)	
POWER CONTROL	YZ111			YZ099	YZ099A

□ JUMPER A4C2D09 TO A4C4D09 AND A4B3B10 TO A4B5B12 (SEE ABO03)

	LOGIC REF 3705-I	LOGIC REF 3705-II
PRIME POWER JUMPERS	YZ003, YZ013, YZ015 YZ023, YZ071, YZ073	YZ003, YZ013, YZ023 YZ071, YZ073, YZ075

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IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS		SEE E/C HISTORY		SEP80	322670
3705 MODELS A-H			MAY79	318587	NOV80	344409
DESIGN		SHT 24 OF 35	SEP79	318544	JAN81	344581
DETAIL	TS	OCT76	JAN80	321388	AUG81	344872
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO						YZ000

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26.0 INSTALLATION OF CHANNEL ADAPTER SWITCHES AND ROS REQUIREMENTS

THIS SECTION IS REQUIRED WHEN INSTALLING THE 1ST EXPANSION FRAME WITH A CHANNEL ADAPTER OR ADAPTERS TYPE 4 TO AN ALREADY INSTALLED 3705.

ONLY ROS B/M NUMBERS ARE MENTIONED. FOR ROS P/N'S SEE THE YZ000A PAGES, SECTION 4.0. ALL PANEL REFERENCES USE THE ENGLISH LANGUAGE GROUP AND MUST BE APPROPRIATELY CONVERTED.

26.1 EXAMINE THE FINAL CHANNEL CONFIGURATION CHART BELOW AND PERFORM ONLY THOSE OPERATIONS PERTAINING TO YOUR FINAL CHANNEL ADAPTER TYPE 4 CONFIGURATION.

FRAME BOARD POSITION	3705		3705 1ST EXPANSION FRAME		SECTION REQUIRED
	01A - B1	01A - A4	02A - B4	02A - A4	
CONFIGURATION 1		CA - 4 B/M 1749611		CA - 4 B/M 1749616	<u>26.3 ONLY</u>
CONFIGURATION 2		CA - 4 B/M 1749611	CA - 4 B/M 1648283	CA - 4 B/M 1749616	<u>26.4 ONLY</u>
CONFIGURATION 3	CA - 4 B/M 1648282	CA - 4 B/M 1749611		CA - 4 B/M 1749616	<u>26.5 ONLY</u>
CONFIGURATION 4	CA - 4 B/M 1648282	CA - 4 B/M 1749611	CA - 4 B/M 1648283	CA - 4 B/M 1749616	<u>26.6 ONLY</u>

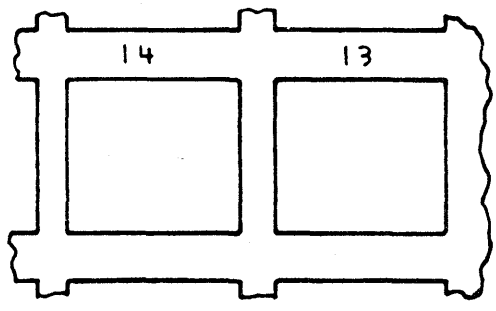
26.2 SWITCH MOUNTING PLATE EC LEVEL

CHECK SWITCH POSITIONS 13 AND 14 FROM THE WIRING SIDE OF THE OPERATOR'S PANEL. IF RECTANGULAR HOLES ARE PRESENT; B/M 1785218 MUST BE INSTALLED. B/M 1785218 CONTAINS A NEW SWITCH PLATE, P/N 1785281, WITH ROUND HOLES. REFER TO THE FIGURE BELOW TO DIFFERENTIATE BETWEEN AN OLD AND NEW SWITCH PLATE. IF A NEW SWITCH PLATE IS NOT REQUIRED, RETURN TO THE APPROPRIATE SECTION. IF A NEW SWITCH PLATE IS REQUIRED, IGNORE THE ACCOMPANYING INSTRUCTIONS SHIPPED WITH B/M 1785218 AND PROCEED.

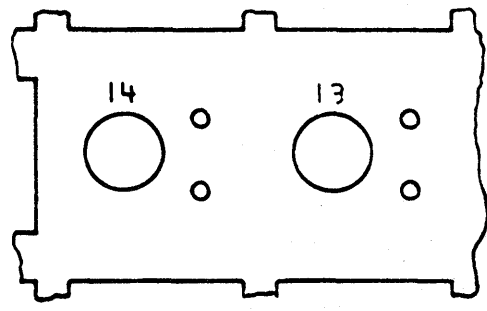
TO INSTALL THE NEW SWITCH PLATE, P/N 1785281, FIRST REMOVE ALL THE WIRES FROM THE SWITCHES AND INDICATORS. USE CARE TO AVOID DAMAGING THE TERMINALS. TRANSFER ALL HARDWARE TO THE NEW SWITCH PLATE EXCEPT THE LENSES AND PUSHBUTTONS (IT IS EASIER TO REMOUNT THE SWITCH PLATE WITHOUT THESE) INCLUDING THE HARDWARE FROM THE NEW LANGUAGE FEATURE B/M'S REQUIRED (REFER TO THE APPROPRIATE SECTION). A CHART IS PROVIDED IN THE APPROPRIATE SECTION TO REWIRE THE PANEL.

RETURN TO THE APPROPRIATE SECTION.

OLD STYLE PLATE (WIRING SIDE)



NEW STYLE PLATE (WIRING SIDE)



SEE APPROPRIATE SECTION TO LOCATE POSITIONS 13 AND 14

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
3705 MODELS A-H		NOV80	344409		
DESIGN	SHT 25 OF 35	JAN81	344581		
DETAIL		AUG81	344872		
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO				LOGIC PG NO	
				YZ000	

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PART NO
1770700

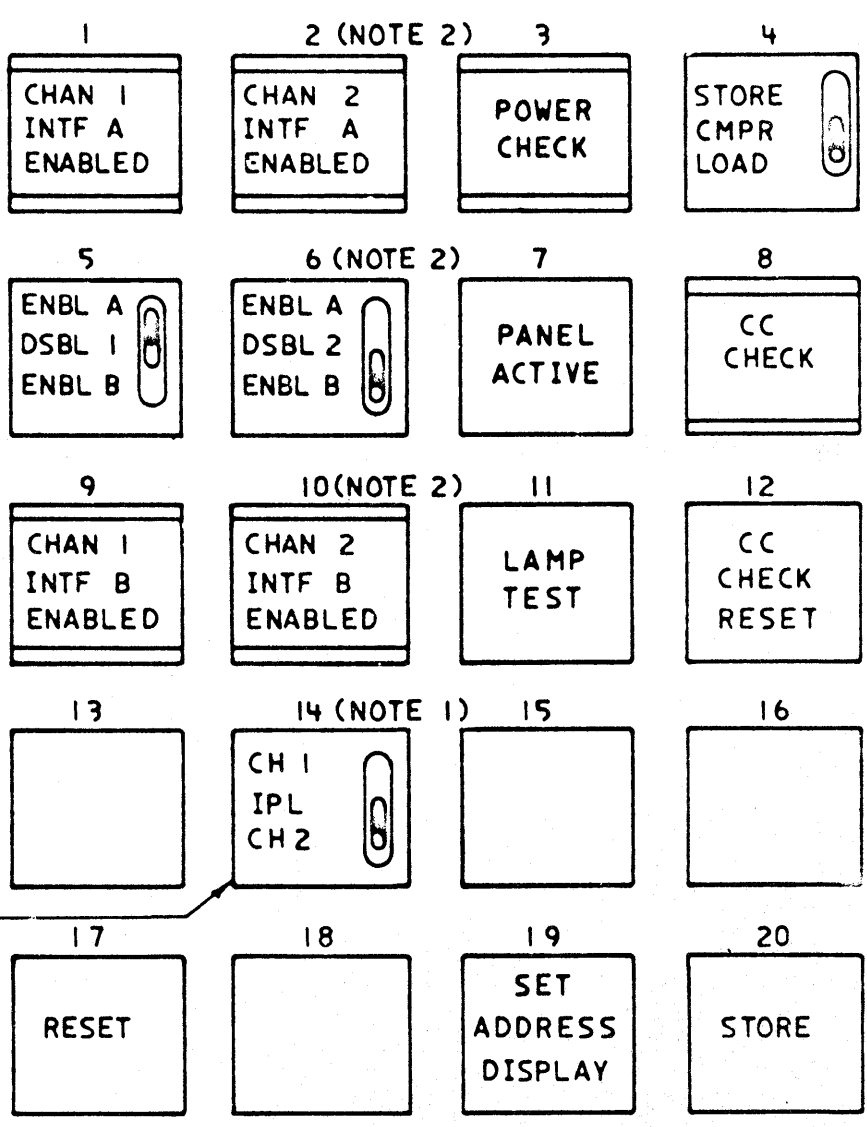
LOGIC PG. NO
YZ000

26.3 PANEL REWORK FOR CA-4'S IN THE 01A-A4 AND 02A-A4 BOARD POSITIONS

26.3.1 EXAMINE THE FINAL CONFIGURATION OF THE OPERATOR'S PANEL BELOW. PERFORM THE OPERATIONS INDICATED BY THE NOTES. WHEN REMOVING WIRES, USE CARE TO AVOID DAMAGE TO THE TERMINALS. READ ALL NOTES THAT APPLY TO AVOID DUPLICATION OF EFFORT. MOUNT ALL SWITCHES WITH THE SWITCH KEYWAY UP.

READ NOTE 1 BELOW. IF SECTION 26.2 APPLIES, PERFORM THE OPERATIONS UNDER 26.2 AT THIS TIME. IF 26.2 DOES NOT APPLY, REMOVE THE SWITCH PLATE. DO NOT REMOVE ANY WIRES AT THIS TIME. REMOVE ALL LENSES AND PUSHBUTTONS BEFORE ATTEMPTING REINSTALLATION AS IT WILL MAKE IT EASIER TO REMOUNT THE SWITCH PLATE.

PERFORM THE REWORK INDICATED BY THE NOTES.



INSTALL THE IPL SOURCE SWITCH ONLY IF N-CANNEL ROS, B/M 1648305, IS NOT TO BE INSTALLED AS PART OF THIS 1ST EXPANSION FRAME INSTALLATION. IF AN IPL SOURCE SWITCH IS TO BE INSTALLED, TYPE 1 ROS, B/M 5997484, IS REQUIRED.

NOTE 1: EITHER N-CANNEL ROS, B/M 1648305, OR AN IPL SOURCE SWITCH, B/M 1750524 (ENG), B/M 1648366 (FR) OR B/M 1648367 (GER), WAS SHIPPED WITH THIS 1ST EXPANSION FRAME. IF AN IPL SOURCE SWITCH WAS SHIPPED, DO SECTION 26.2 AND RETURN HERE. LOCATE THE PROPER IPL SOURCE SWITCH B/M, IGNORE ANY ACCOMPANYING INSTRUCTIONS AND INSTALL THE SWITCH AND THE CABLE, P/N 1749669, ACCORDING TO THE FIGURE ABOVE AND ON THE NEXT PAGE. THE LENS HOLDER IN POSITION 15 WILL HAVE TO BE REMOVED TO INSTALL THE SWITCH IN POSITION 14. THE CABLE GOES FROM THE IPL SOURCE SWITCH TO THE 01A-A4 BOARD, PINS D6E02, E6B02 AND E6D02 (SEE NEXT PAGE). IF AN IPL SOURCE SWITCH IS NOT TO BE INSTALLED, POSITION 14 WILL REMAIN BLANK. USE THE BLANK AND TWO SCREWS REMOVED FROM POSITION 6 FOR POSITION 13 IF A NEW SWITCH PLATE WAS INSTALLED. TYPE 1 ROS IS CONCURRENT WITH AN IPL SOURCE SWITCH, B/M 5997484.

NOTE 2: B/M 5182875 (ENG), B/M 5182876 (FR) OR B/M 5182877 (GER) SUPPLIES THE PARTS FOR POSITIONS 2, 6 AND 10. THE LENS HOLDER IN POSITION 11 WILL HAVE TO BE REMOVED TO INSTALL THE SWITCH IN POSITION 6.

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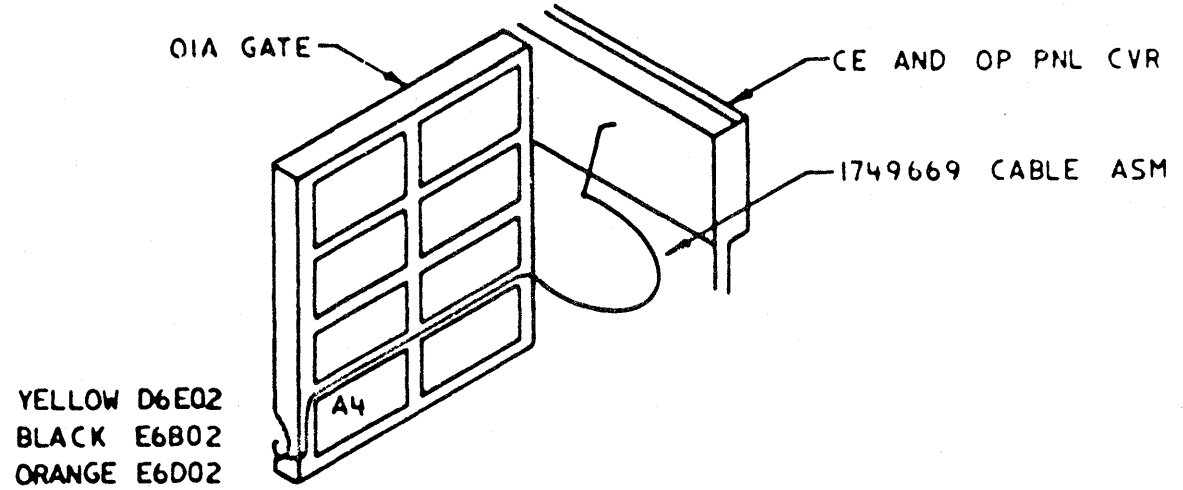
IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
DESIGN	3705 MODELS A-H	NOV 80	344409		
DETAIL	SHT 26 OF 35	JAN 81	344581		
CHECK		AUG 81	344872		
APPRO		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
					YZ000

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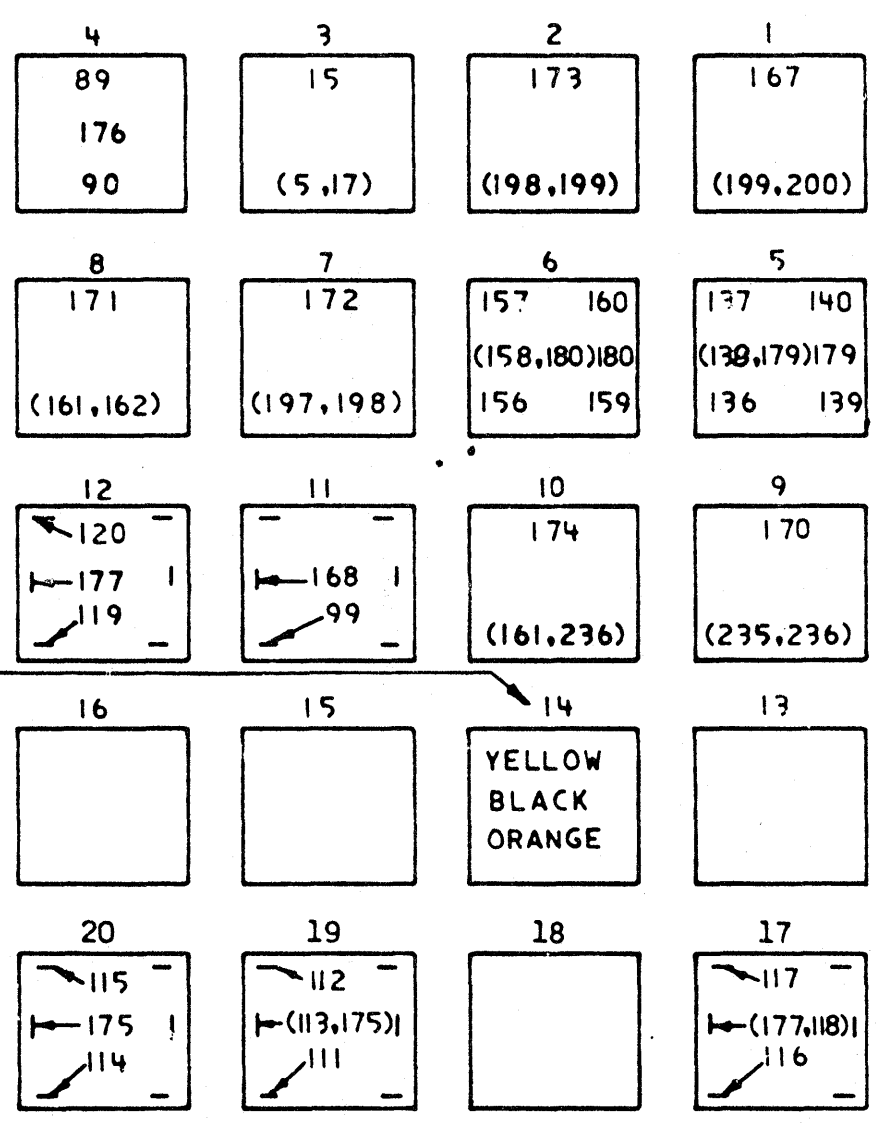
IPL SOURCE SWITCH CABLE ROUTING



- 26.3.2 REINSTALL THE SWITCH PLATE
- 26.3.3 INSTALL THE LENSES AND PUSHBUTTONS, REFERENCING THE FIGURE ON THE PREVIOUS PAGE.
- 26.3.4 REWIRE THE PANEL ACCORDING TO THE FIGURE BELOW. ONLY THE WIRING FOR POSITIONS 2,6,10 AND 14 (14 ONLY IF AN IPL SOURCE SWITCH WAS INSTALLED) HAS BEEN AFFECTED. THE WIRES TO BE USED ARE PRESENTLY TAPED.

PANEL (WIRING SIDE)

ONLY IF N-CHANNEL ROS, B/M 1648305, IS NOT TO BE INSTALLED AS PART OF THIS 1ST EXPANSION FRAME INSTALLATION



26.3.5 THIS COMPLETES THE PANEL REWORK. RETURN TO YZ000 INSTALLATION FLOW CHART.

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
3705 MODELS A-H		NOV80	344409		
DESIGN	SHT 27 OF 35	JAN81	344581		
DETAIL		AUG81	344872		
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO					YZ000

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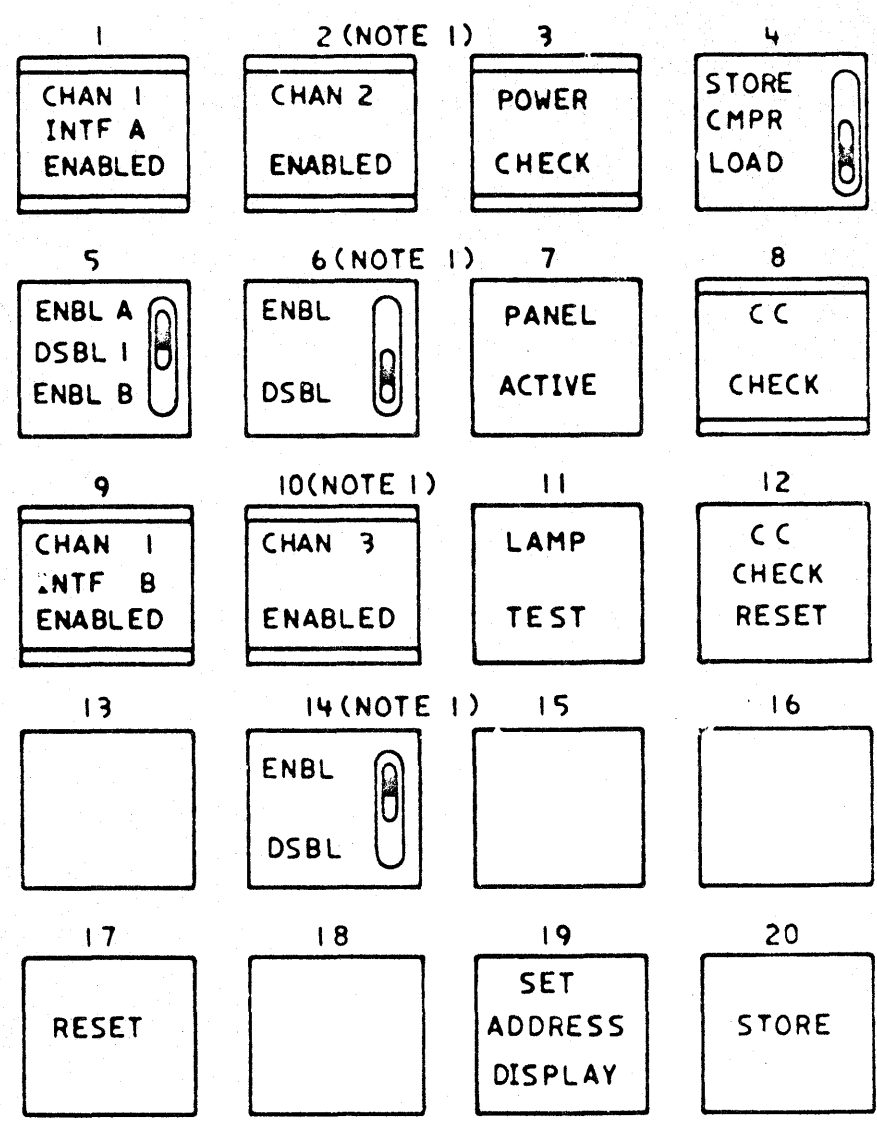
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26.4 PANEL REWORK FOR CA-4'S IN THE 01A-A4, 02A-B4 AND 02A-A4 BOARD POSITIONS.

26.4.1 EXAMINE THE FINAL CONFIGURATION OF THE OPERATOR'S PANEL BELOW. PERFORM THE OPERATIONS INDICATED BY THE NOTE. WHEN REMOVING WIRES, USE CARE TO AVOID DAMAGE TO THE TERMINALS. MOUNT ALL SWITCHES WITH THE SWITCH KEYWAY UP.

AT THIS TIME, PERFORM THE OPERATIONS INDICATED BY SECTION 26.2 AND PROCEED DIRECTLY TO THE NOTE AFTER COMPLETING 26.2, IF IT IS APPLICABLE. IF 26.2 IS NOT APPLICABLE, REMOVE THE SWITCH PLATE. DO NOT REMOVE ANY WIRES AT THIS TIME. REMOVE ALL LENSES AND PUSHBUTTONS BEFORE ATTEMPTING REINSTALLATION AS IT WILL MAKE IT EASER TO REMOUNT THE SWITCH PLATE.

PERFORM THE REWORK INDICATED BY THE NOTE.



NOTE 1: B/M 1648334 (ENG), B/M 1648335 (GER) OR B/M 1648336 (FR) SUPPLIES THE PARTS FOR POSITIONS 2, 6, 10 AND 14. THE LENS HOLDERS IN POSITIONS 7 AND 15 WILL HAVE TO BE REMOVED IN ORDER TO INSTALL THE SWITCHES IN POSITIONS 6 AND 14. IF A NEW SWITCH PLATE WAS INSTALLED, USE THE BLANK AND 2 SCREWS REMOVED FROM POSITION 6 FOR POSITION 13.

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IBM		DATE	CHANGE NO	DATE	CHANGE NO	1770700 B
NAME	INSTALLATION INSTRS	SEE E/C HISTORY				
3705 MODELS A-H		NOV80	344409			
DESIGN	SHT 28 OF 35	JAN81	344581			
DETAIL		AUG81	344872			
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO		LOGIC PG NO
APPRO						YZ 000

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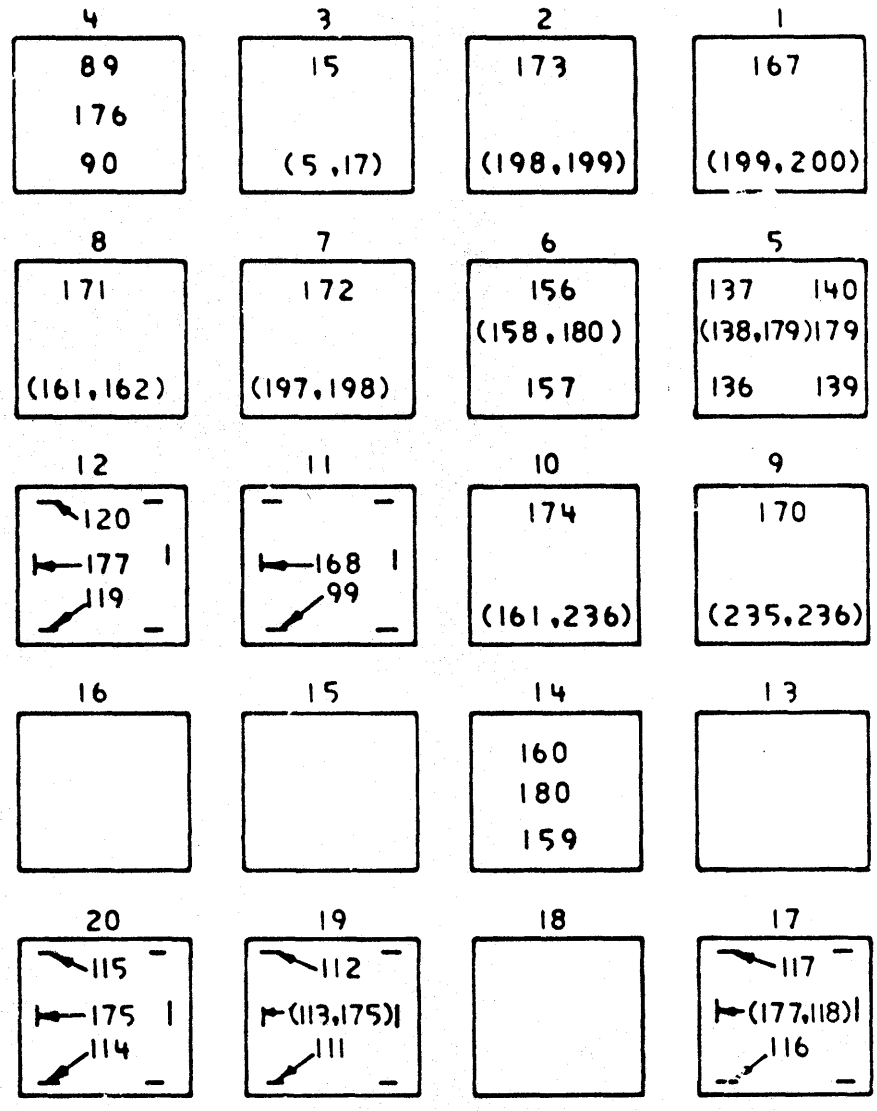
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- 26.4.2 REINSTALL THE SWITCH PLATE.
- 26.4.3 INSTALL THE LENSES AND PUSHBUTTONS, REFERENCING THE FIGURE ABOVE.
- 26.4.4 REWIRE THE PANEL ACCORDING TO THE FIGURE ON THE THIS PAGE. ONLY THE WIRING FOR POSITIONS 2,6,10 AND 14 HAS BEEN AFFECTED. THE WIRES TO BE USED ARE PRESENTLY TAPED.

PANEL (WIRING SIDE)



- 26.4.5 N-CHANNEL ROS, B/M 1648305, IS REQUIRED.
- 26.4.6 THIS COMPLETES THE PANEL REWORK. RETURN TO Y2000 INSTALLATION FLOW CHART.

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
3705 MODELS A-H		NOV80	344409		
DESIGN		JAN81	344581		
DETAIL		AUG81	344872		
CHECK		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO					YZ000

1770700 B

VERTICAL ELECTRICAL FORMAT

1770700 B

PART NO
1770700

LOGIC PG NO
YZ000

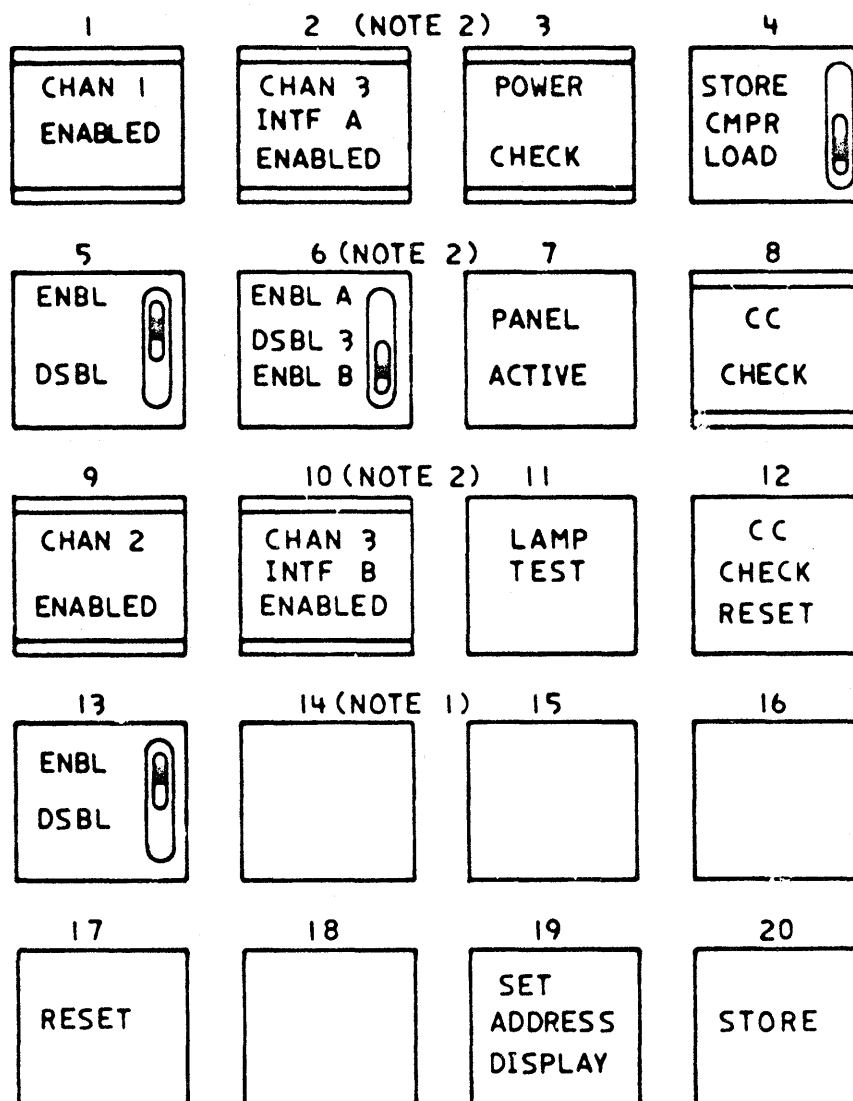
PAGE 30 OF 35

26.5 PANEL REWORK FOR CA-4'S IN THE 01A-B1, 01A-A4 AND 02A-A4 BOARD POSITIONS.

26.5.1 EXAMINE THE FINAL CONFIGURATION OF THE OPERATOR'S BELOW. PERFORM THE OPERATIONS INDICATED BY THE NOTES. A CHART IS INCLUDED ON THE NEXT PAGE TO REWIRE THE PANEL. READ ALL NOTES THAT APPLY TO AVOID DUPLICATION OF EFFORT. MOUNT ALL SWITCHES WITH THE SWITCH KEYWAY UP.

REMOVE THE SWITCH PLATE. DO NOT REMOVE ANY WIRES AT THIS TIME. REMOVE ALL LENSES AND PUSHBUTTONS BEFORE ATTEMPTING REINSTALLATION AS IT WILL MAKE IT EASIER TO REMOUNT THE SWITCH PLATE.

PERFORM THE REWORK INDICATED BY THE NOTES.



NOTE 1: IF AN IPL SOURCE SWITCH IS INSTALLED IN POSITION 14, IT MUST BE REMOVED ALONG WITH THE ASSOCIATED CABLE. THE CABLE HAS ORANGE, BLACK AND YELLOW LEADS AND GOES TO THE 01A-B1 BOARD, PINS D6E02, E6B02 AND E6D02. THE LENS HOLDER IN POSITION 15 HAS TO BE REMOVED IN ORDER TO REMOVE THE SWITCH IN 14 (IF PRESENT). USE THE BLANK AND SCREWS FROM POSITION 6 FOR POSITION 14, IF REQUIRED. THE IPL SOURCE SWITCH HOLDER READS:
CH1
IPL
CH2

NOTE 2: B/M 1648331 (ENG), B/M 1648332 (GER) OR B/M 1648333 (FR) SUPPLIES THE PARTS FOR POSITIONS 2, 6 AND 10. THE LENS HOLDER IN POSITION 11 WILL HAVE TO BE REMOVED TO INSTALL THE SWITCH IN POSITION 6.

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
	3705 MODELS A-H	NOV80	344409		
DESIGN		JAN 81	344581		
DETAIL		AUG 81	344872		
CHECK		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO				LOGIC PG NO	
				YZ000	

1770700 B

620 C133 1
PAGE 78082201
VERTICAL ELECTRICAL FORMAT

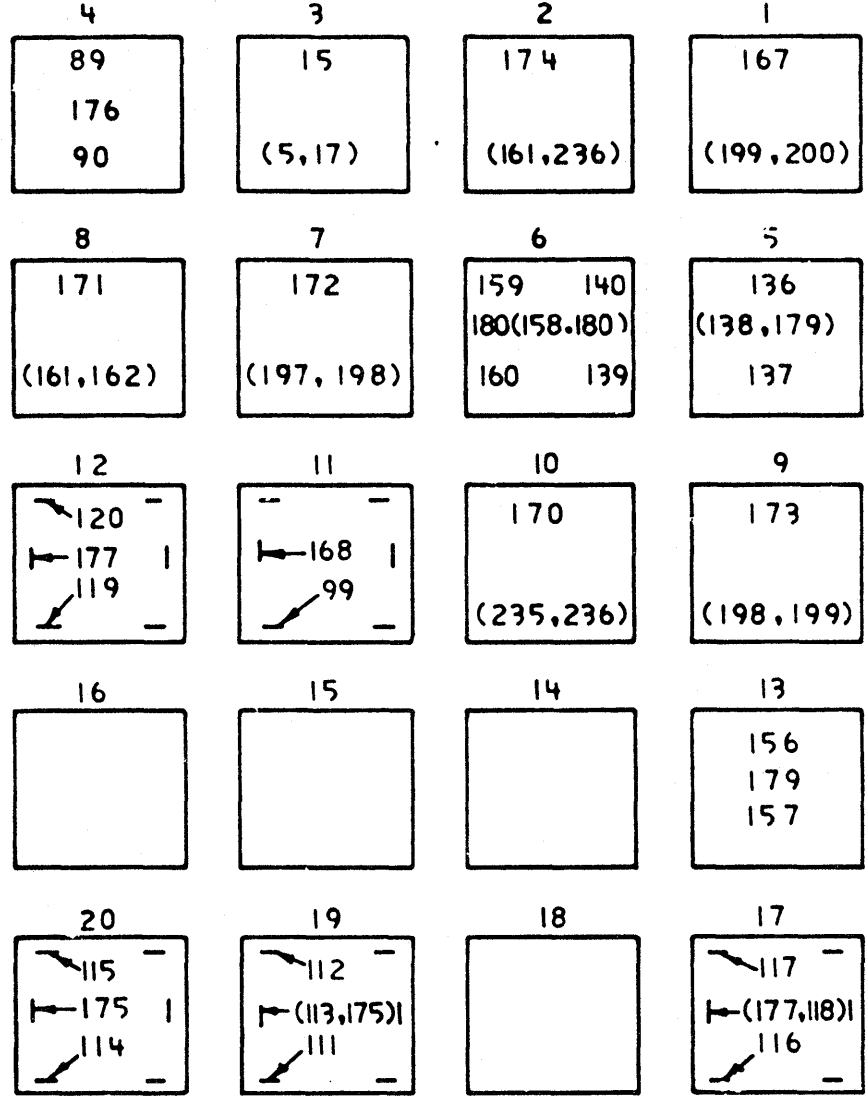
1770700 B

PART NO
1770700

LOGIC PG NO
YZ000

- 26.5.2 REINSTALL THE SWITCH PLATE
- 26.5.3 INSTALL THE LENSES AND PUSHBUTTONS, REFERENCING THE FIGURE ON THE PREVIOUS PAGE.
- 26.5.4 REWIRE THE PANEL ACCORDING TO THE FIGURE BELOW. ONLY THE WIRING FOR POSITIONS 2, 6 AND 10 HAS BEEN AFFECTED. THE WIRES TO BE USED ARE PRESENTLY TAPED.

PANEL (WIRING SIDE)



- 26.5.5 N-CHANNEL ROS, B/M 1648305, IS REQUIRED.
- 26.5.6 THIS COMPLETES THE PANEL REWORK. RETURN TO YZ000 INSTALLATION FLOW CHART.

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62C 0133 1
MODE 78032203
VERTICAL ELECTRICAL FORMAT

IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
	3705 MODELS A-H	NOV80	344409		
DESIGN	SHT 31 OF 35	JAN81	344581		
DETAIL		AUG81	344872		
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO					YZ000

1770700 B

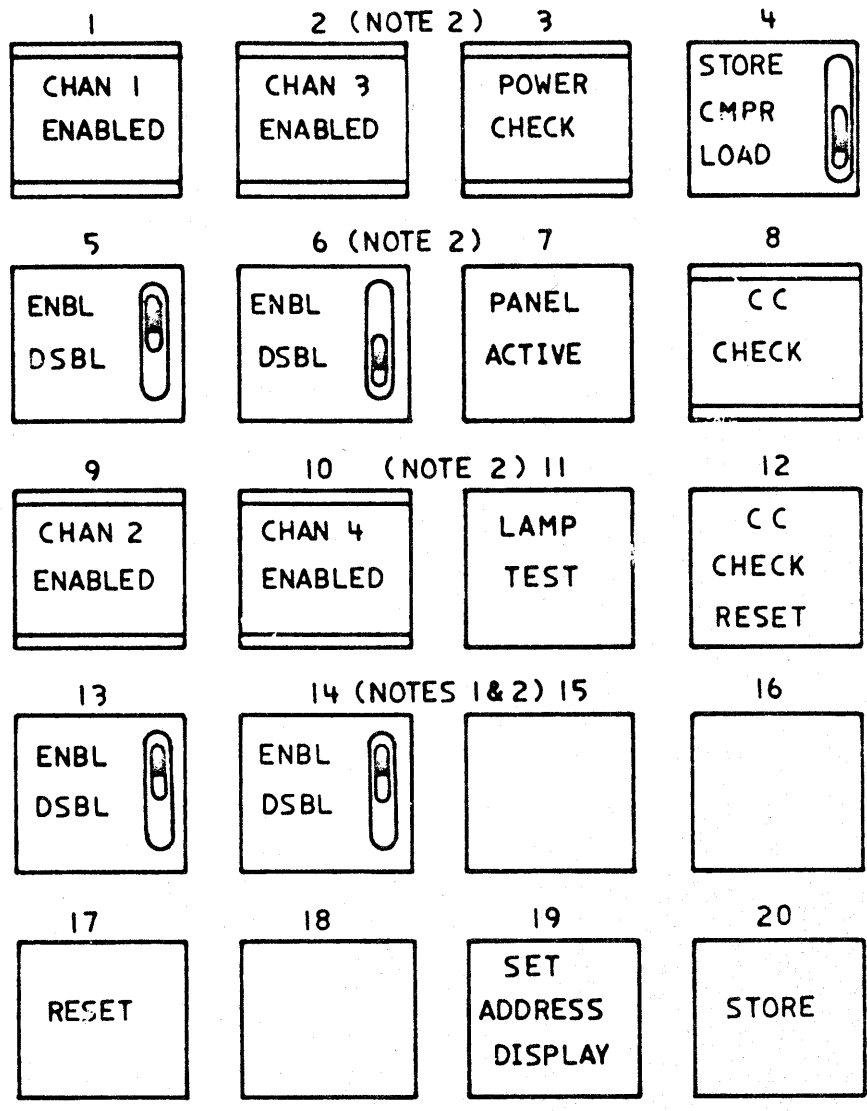
1770700 B

26.6 PANEL REWORK FOR CA-4'S IN THE 01A-B1, 01A-A4, 02A-B4 AND 02A-A4 BOARD POSITIONS.

26.6.1 EXAMINE THE FINAL CONFIGURATION OF THE OPERATOR'S PANEL BELOW. PERFORM THE OPERATIONS INDICATED BY THE NOTES. A CHART IS INCLUDED ON THE NEXT PAGE TO REWIRE THE PANEL. READ ALL NOTES THAT APPLY TO AVOID DUPLICATION OF EFFORT. MOUNT ALL SWITCHES WITH THE SWITCH KEYWAY UP.

REMOVE THE SWITCH PLATE. DO NOT REMOVE ANY WIRES AT THIS TIME. REMOVE ALL LENSES AND PUSHBUTTONS BEFORE ATTEMPTING REINSTALLATION AS IT WILL MAKE IT EASIER TO REMOUNT THE SWITCH PLATE.

PERFORM THE REWORK INDICATED BY THE NOTES



NOTE 1: IF AN IPL SOURCE SWITCH IS INSTALLED IN POSITION 14, IT MUST BE REMOVED ALONG WITH THE ASSOCIATED CABLE. THE CABLE HAS ORANGE, BLACK AND YELLOW LEADS AND GOES TO THE 01A-B1 BOARD, PINS D6E02, E6B02 AND E6D02. THE LENS HOLDER IN POSITION 15 HAS TO BE REMOVED IN ORDER TO REMOVE THE SWITCH IN 14 (IF PRESENT). THE IPL SOURCE SWITCH HOLDER READS:
CH 1
IPL
CH 2

NOTE 2: B/M 1648337 (ENG), B/M 1648338 (GER) OR B/M 1648339 (FR) SUPPLIES THE PARTS FOR POSITIONS 2, 6, 10 AND 14.

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650-0133-1
MRO# 780522203
VERTICAL ELECTRICAL FORMAT

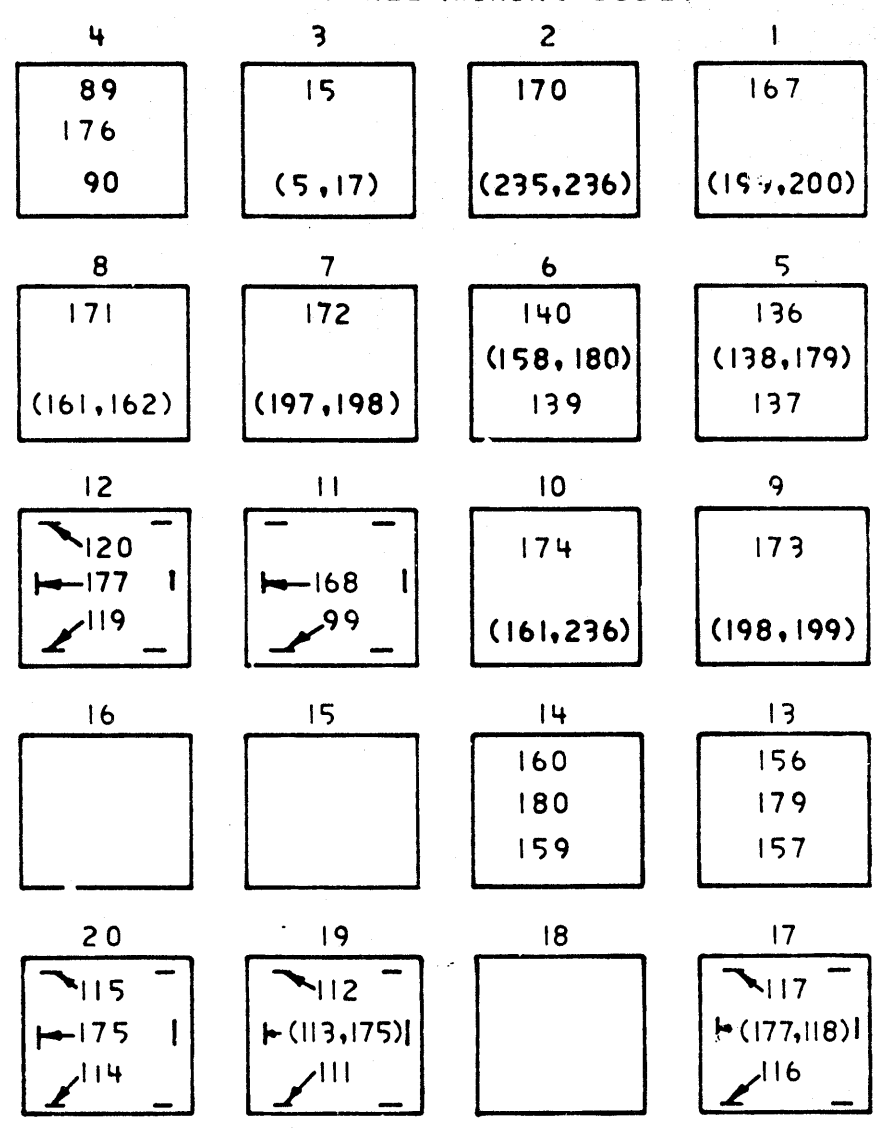
IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
3705 MODELS A-H		NOV80	344409		
DESIGN	SHT 32 OF 35	JAN81	344581		
DETAIL		AUG81	344872		
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO					YZ000

1770700 B

1770700 B

- 26.6.2 REINSTALL THE SWITCH PLATE
- 26.6.3 INSTALL THE LENSES AND PUSHBUTTONS, REFERENCING THE FIGURE ON THE PREVIOUS PAGE.
- 26.6.4 REWIRE THE PANEL ACCORDING TO THE FIGURE BELOW. ONLY THE WIRING FOR POSITIONS 2,6,10 AND 14 HAS BEEN AFFECTED. THE WIRES TO BE USED ARE PRESENTLY TAPED.

PANEL (WIRING SIDE)



- 26.6.5 N-CHANNEL ROS, B/M 1648305, IS REQUIRED.
- 26.6.6 THIS COMPLETES THE PANEL REWORK. RETURN TO YZ000 INSTALLATION FLOW CHART.

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	INSTALLATION INSTRS	SEE E/C HISTORY			
	3705 MODELS A-H	NOV80	344409		
DESIGN	SHT 33 OF 35	JAN81	344581		
DETAIL		AUG81	344872		
CHECK	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO				YZ000	

620-0133-1 VERTICAL ELECTRICAL FORMAT

1770700 B

QUALITY DATA NETWORK PRODUCT USA APPROVED BY NBS

1770700 B

PART NO
1770700

LOGIC PG NO
YZ000

PAGE 34 OF 35


27.0 CDS REFERENCE

A PREPUNCHED CDS IS INCLUDED IN THE SHIPPING GROUP FOR ALL 3705 ORDERS EXCEPT AN MES FOR A 3706. SOME ADDITIONAL INFORMATION HAS TO BE PUNCHED INTO THIS DECK BEFORE IT CAN BE USED. THIS DECK SHOULD BE DUPLICATED BEFORE BEING MODIFIED TO PROVIDE A DECK FOR EACH CHANNEL INTERFACE (UP TO 4) ON THE 3705. THE FOLLOWING INFORMATION SHOULD THEN BE ADDED TO THE DECK(S):

CARD	CARD COL(S)	CONTENTS/DESCRIPTION
1	10-17	NATIVE SUBCHANNEL ADDRESS IN HEX RIGHT JUSTIFIED (EX 0000010A)
	20-21	FEATURE CODE, ENTER ONLY THE CA DEFINED IN COLS 10-17.
	20	HEX 8 1 = STORAGE GREATER THAN 64K 4 1 = NCP USED 2 1 = TYPE 4 CA 1 1 = TYPE 1 CS 8 1 = TYPE 2 CS 4 1 = TYPE 3 CS 2 1 = TYPE 1 CA 1 1 = TYPE 2 OR 3 CA
	30-31	FLAGS
	30	= 4 IF DEVICE SHARED WITH ANOTHER CPU (LEAVE BLANK)
	31	= 4 IF TWO CHANNEL SWITCH IS INSTALLED
	36-39	ESC UNIT ADDRESS IN HEX OF LOWEST EMULATOR LINE ADDRESS (EX 0010). LEAVE BLANK IF CA 2 OR 3 OR MACHINE USES NCP ONLY.
	40-41	HEX NUMBER OF EMULATOR LINE ADDRESSES
	52-67	HEX REPRESENTATION OF THE SYMBOLIC NAME OF THE NCP. LEAVE BLANK IF NO NCP USED.
3	36-37	NSC ADDRESS INTF A FOR THE FIRST CA. MAY BE CA TYPE 1/2/3/4.
	44-45	NSC ADDRESS INTF A FOR THE SECOND CA. MAY BE CA TYPE 2/3/4. LEAVE BLANK IF ONLY ONE CA INSTALLED.
	48-49	NSC ADDRESS INTF A FOR THE THIRD CA TYPE 4. LEAVE BLANK IF TWO OR LESS CA'S.
	52-53	NSC ADDRESS INTF A FOR THE FOURTH CA TYPE 4. LEAVE BLANK IF THREE OR LESS CA'S.

IF A THIRD SCANNER IS INSTALLED ON THE MACHINE, THE SYMBOLIC CDS NAME USED WILL BE CU3705.
IF MULTIPLE 3705'S WITH 3 OR MORE SCANNERS ARE CONFIGURED ON THE SAME SYSTEM THEN THIS
SYMBOLIC NAME WILL HAVE TO BE CHANGED TO BE UNIQUE FOR EACH 3705.

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			DATE	CHANGE NO	DATE	CHANGE NO
			SEE EC HISTORY			
NAME			INSTALLATION INSTRS			
			3705 MODELS A-H			
DESIGN		SHT 34 OF 35	JAN81	344581		
DETAIL	TS	FEB79	AUG81	344872.		
CHECK		CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO						YZ000

1770700

B

620.013.1 MRO# 780522203 VERTICAL ELECTRICAL FORMAT

ASTRO-COM 19801

1770700 B

FRAME POWER SYSTEM INTERMIX (REFERENCE)

THE POWER SYSTEM AND CONTROL FOR THE 3705 AND 3706 HAS BEEN MODIFIED AND WILL BE IN THOSE MACHINES BUILT AFTER 1980. THE POWER TYPE CAN BE DETERMINED BY OBSERVING THE OXD POWER CONTROL GATE. UN-MODIFIED POWER CONTAINS A BOARD WITH MORE THAN 20 CARDS. THE MODIFIED POWER SYSTEM WILL CONTAIN THREE (3) CARDS IN THE 3705 AND TWO (2) CARDS IN THE 3706 CONTROL GATE.

3705 WITH MODIFIED POWER ATTACHED TO 3706(S) WITH UN-MODIFIED POWER:

WHEN ONE OR MORE 3706(S) WITH UN-MODIFIED POWER IS ATTACHED TO A 3705 WITH MODIFIED POWER, RPQ S30251 (B/M 1644026) MUST BE INSTALLED IN THE 3706(S). REFER TO RPQ LOGIC PAGE YZ599 AND THE RPQ INSTRUCTIONS FOR THE REQUIRED WIRING CONNECTIONS.

3705 WITH UN-MODIFIED POWER ATTACHED TO 3706(S) WITH MODIFIED POWER:

WHEN ONE OR MORE 3706(S) WITH MODIFIED POWER IS ATTACHED TO A 3705 WITH UN-MODIFIED POWER, THE SEQUENCE CONTROL CABLE CONNECTIONS WILL BE PER THE FOLLOWING CHART AND WIRING LIST AND NOT PER CHART C ON PAGE 13.

1. PRIME POWER BOX:

ADD JUMPER (P/N 8496460) IN THE 3706 PRIME POWER BOX FROM RELAY K1-A TO K1-L4 (1A INSTEAD OF L4 IN WORLD TRADE COUNTRIES). REFER TO YZ586, SHEET 3, FOR PPB-K1 LOCATION (VOL. 1A PROVIDED WITH THE 3706).

2. OIE PANEL:

(a)	CABLE P/N	TERMINATION - 3705 OIE PANEL	CABLE CARD/WIRE LOC	MODIFIED 3706 LOC
1643775		J2 CABLE CARD	OIE-P2	FIRST EXPANSION
		RY3-10 COM	WIRE 17	
		TIE BACK	WIRE 18	
		TIE BACK	WIRE 19	
1643776		J3 CABLE CARD	OIE-P3	SECOND EXPANSION
		RY6-9 COM	WIRE 17	
		TIE BACK	WIRE 18	
		TIE BACK	WIRE 19	
1643777		J4 CABLE CARD	OIE-P4	THIRD EXPANSION
		RY3-4 COM	WIRE 17	
		TIE BACK	WIRE 19	

- (b) REMOVE AND TIE BACK WIRE #137 FROM RY1-2 N/O.
- (c) REMOVE JUMPER FROM RY2-4 COM TO RY6-11 COM.
- (d) MOVE WIRE #28 FROM RY2-4 N/O TO RY11-1 N/C.
- (e) MOVE WIRE #24 FROM RY2-4 COM TO RY11-1 COM.
- (f) ADD JUMPER (P/N 1273020) FROM RY6-11 COM TO RY11-1 COM. (PROVIDED ON 3706 SHIP GROUP B/M).

REFER TO YZ301, SHEET 10, FOR THE OIE RELAY AND CONNECTOR LOCATIONS. (VOL 1 PROVIDED WITH THE 3705).

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VERTICAL ELECTRICAL FORMAT
MOZ 78082803
810 0133 1

IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				NOV80	344409		
3705 MODEL A-H				JAN81	344581		
DESIGN	JJS	NOV80	SHT 35 OF 35	AUG81	344872		
DETAIL							
CHECK	CDN	NOV80	CLASSIFICATION	MUST CONFORM TO ENG SPE.		DEVELOPMENT NO	
APPRO	FPN	NOV80				LOGIC PG NO	
						YZ000	

1770700 B

1770710 C

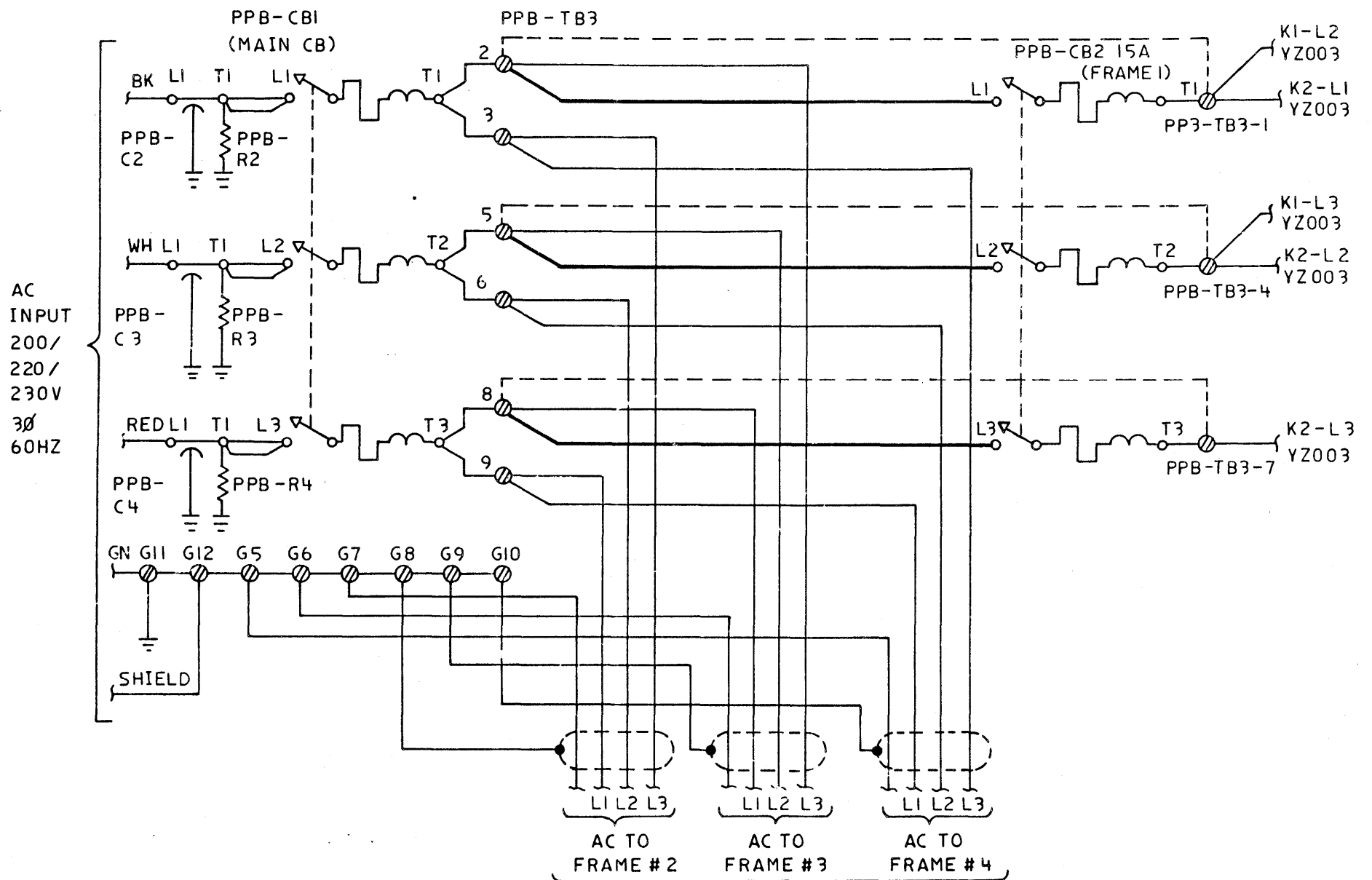
1770710

YZ001

DUPLICATE MASTER

NO. OF FRAMES	CBI RATING	CB2 RATING
1	15A	—
2	30A	15A
3	40A	15A
4	50A	15A

208/230 60HZ
MAIN FRAME



CBI-YZ005
(EXPANSION FRAME LOGIC -VOL I)

NOTES

- IF SYSTEM HAS ONLY 1 FRAME DOTTED JUMPERS ARE USED. — WIRES AND CB2 ARE OMITTED.
 - IF SYSTEM HAS MORE THAN 1 FRAME — WIRES AND CB2 ARE USED AND DOTTED JUMPERS ARE OMITTED.
- SINGLE FRAME WIRING
— MULTIPLE FRAME WIRING

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NAME		DATE		CHANGE NO.		DATE		CHANGE NO.	
208/230 V 60 HZ (DOM)		SEE EC HISTORY							
MAIN FRAME		MAR74		310271					
DESIGN	CD	JUL71		JUN76	314419				
DETAIL	TS	AUG76	RED	AUG76	315608				
CHECK									
APPROV	CD	JUL71						LOGIC: YZ001	

1770710 C

1750270 C

208/230V 60HZ
3705 II BASE FRAME

PART NO
1750270

LOGIC PG NO
YZ003

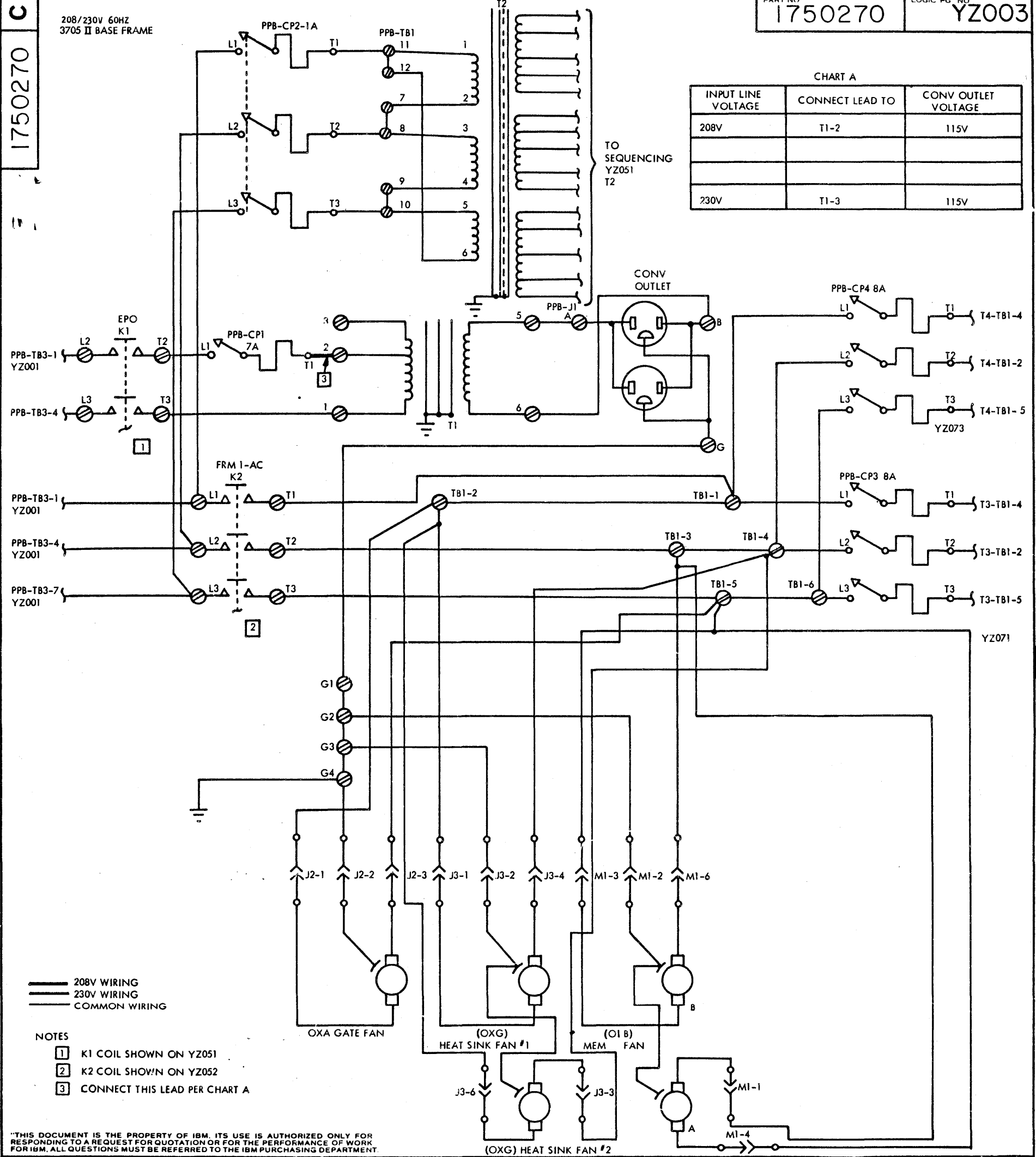


CHART A

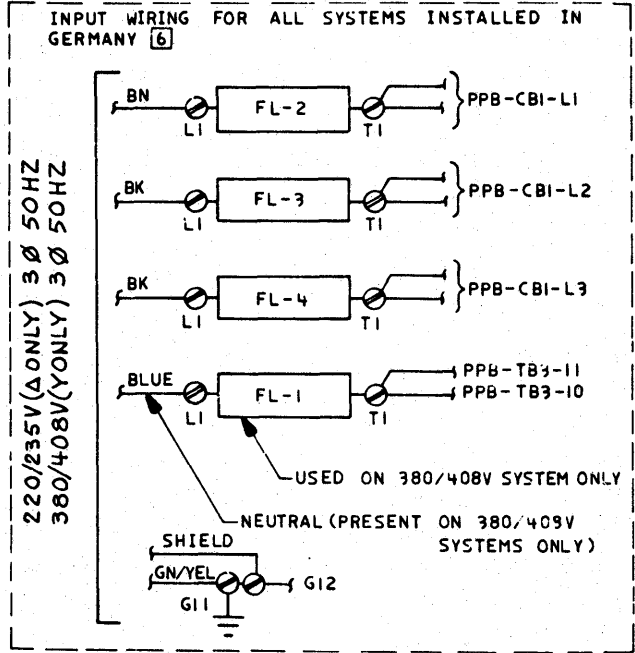
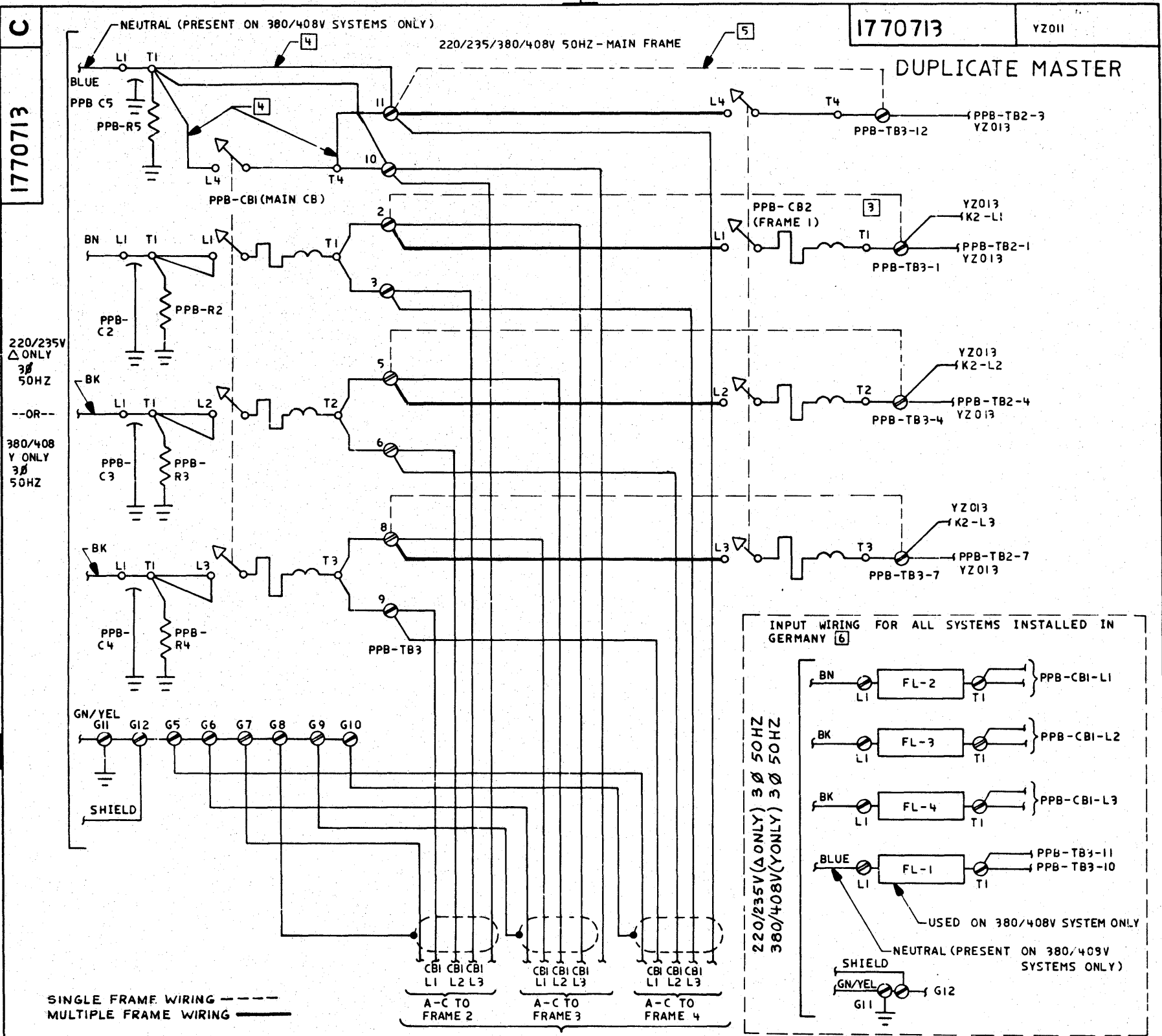
INPUT LINE VOLTAGE	CONNECT LEAD TO	CONV OUTLET VOLTAGE
208V	T1-2	115V
230V	T1-3	115V

- NOTES
- 1 K1 COIL SHOWN ON YZ051
 - 2 K2 COIL SHOWN ON YZ052
 - 3 CONNECT THIS LEAD PER CHART A

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				MAY76	314419		
DESIGN							
DETAIL							
CHECK							
APPRO							
				MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
						LOGIC PG NO	
						YZ003	

1750270 C



SINGLE FRAME WIRING - - - - -
 MULTIPLE FRAME WIRING - - - - -

YZ015 (EXPANSION FRAME LOGIC) VOL I

NOTES

- 1 IF SYSTEM HAS ONLY ONE FRAME DOTTED WIRES ARE USED. — WIRES AND CB2 ARE OMITTED
- 2 IF SYSTEM HAS MORE THAN ONE FRAME — WIRES AND CB2 ARE OMITTED
- 3 A FOUR POLE BREAKER IS USED IN 380/408 V SYSTEMS INSTALLED IN FRANCE. A THREE POLE BREAKER IS USED IN ALL OTHER SYSTEMS.
- 4 FOR 380/408 V SYSTEMS INSTALLED IN FRANCE A FOUR POLE CIRCUIT BREAKER IS USED TO INTERRUPT THE NEUTRAL. IN ALL OTHER SYSTEMS A THREE POLE CIRCUIT BREAKER IS USED AND C5-T1 IS WIRED DIRECTLY TO TB3-10 AND TB3-11. THIS JUMPER IS USED IN ALL 380/408 V SYSTEMS INSTALLED OUTSIDE FRANCE AND IN SINGLE FRAME 380/408 V SYSTEMS INSTALLED IN FRANCE.
- 5 THIS JUMPER IS USED IN ALL 380/408 V SYSTEMS INSTALLED OUTSIDE FRANCE AND IN SINGLE FRAME 380/408 V SYSTEMS INSTALLED IN FRANCE.
- 6 IN ALL SYSTEMS INSTALLED IN GERMANY EMC FILTERS FL-1, FL-2, FL-3, AND FL-4 ARE USED IN PLACE OF CAPACITORS PPB-C2, PPB-C3, PPB-C4, AND PPB-C5 AND RESISTORS PPB-R2, PPB-R3, PPB-R4, AND PPB-R5. ALL OTHER PRIMARY WIRING IS UNCHANGED.

NO. OF FRAMES	MAIN CB RATING	
	220/235 Δ	380/408 Y
1	15 A	15 A
2	30 A	15 A
3	40 A	30 A
4	50 A	30 A

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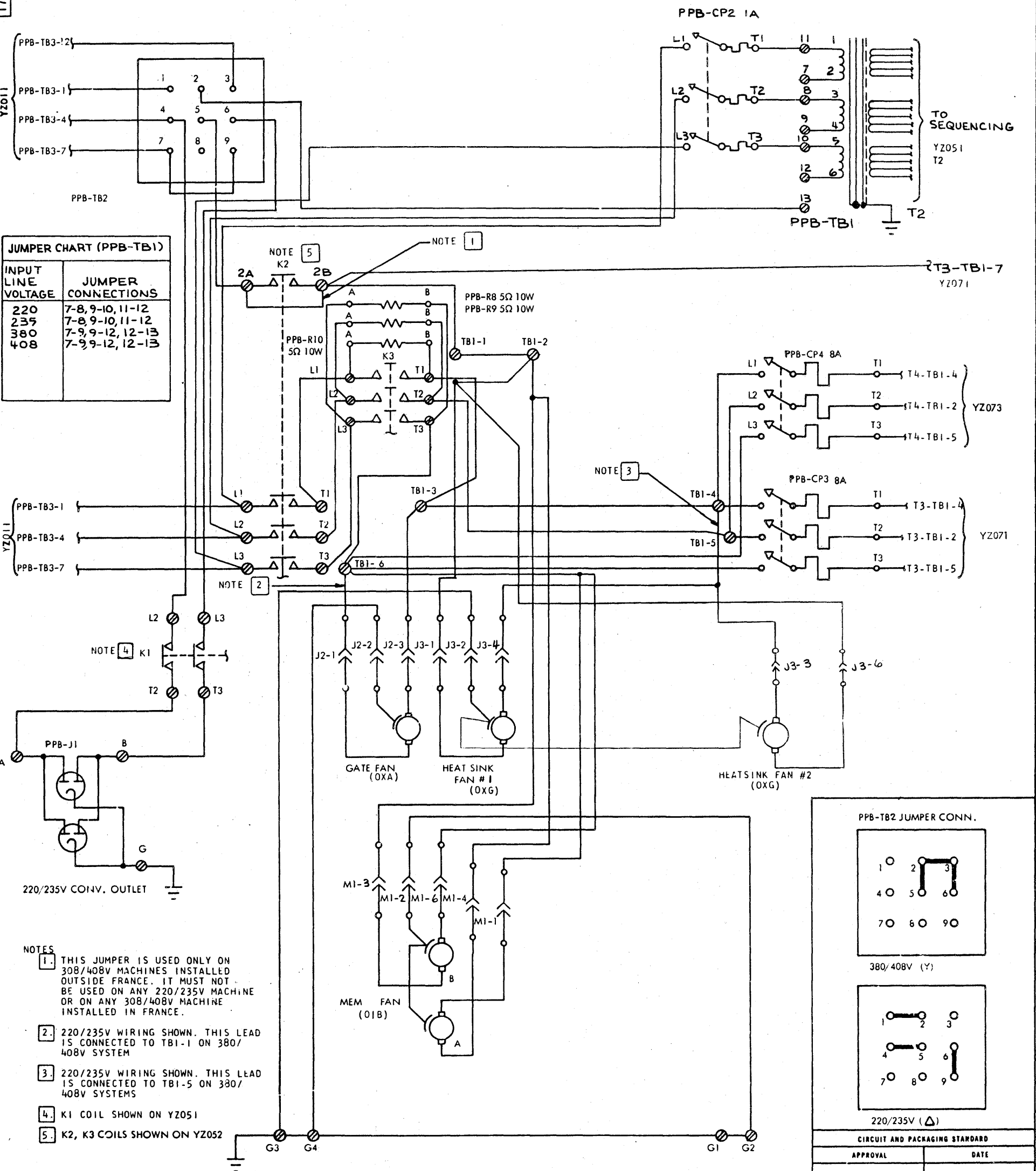
MAIN FRAME			DATE		DATE		1770713
CD	JUL71	TS	MAR74	310271			
CD	JUL71	TS	JUN76	314419			C
			RED	AUG76	315608		
						YZ011	

1750271

STANDARDS CODE

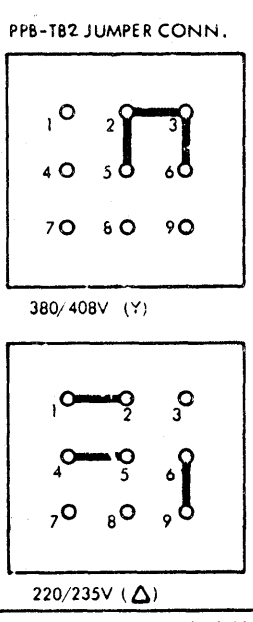
CARD CODE 1750271

220/235/380/408V 50 HZ 3705 II BASE FRAME



JUMPER CHART (PPB-TB1)

INPUT LINE VOLTAGE	JUMPER CONNECTIONS
220	7-8, 9-10, 11-12
235	7-8, 9-10, 11-12
380	7-9, 9-12, 12-13
408	7-9, 9-12, 12-13



- NOTES**
1. THIS JUMPER IS USED ONLY ON 380/408V MACHINES INSTALLED OUTSIDE FRANCE. IT MUST NOT BE USED ON ANY 220/235V MACHINE OR ON ANY 380/408V MACHINE INSTALLED IN FRANCE.
 2. 220/235V WIRING SHOWN. THIS LEAD IS CONNECTED TO TBI-1 ON 380/408V SYSTEM
 3. 220/235V WIRING SHOWN. THIS LEAD IS CONNECTED TO TBI-5 ON 380/408V SYSTEMS
 4. K1 COIL SHOWN ON YZ051
 5. K2, K3 COILS SHOWN ON YZ052

CIRCUIT AND PACKAGING STANDARD			
APPROVAL	DATE	APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	3705 II BASE FRAME			MAY76	314419					1750271
	220/235/380/408V 50HZ									
DESIGN	TS	MAY76	MODEL							YZ013
DETAIL			SCALE							
CHECK	TS	MAY76	DRAW							
APPRO	TS	MAY76	CHECK							

C

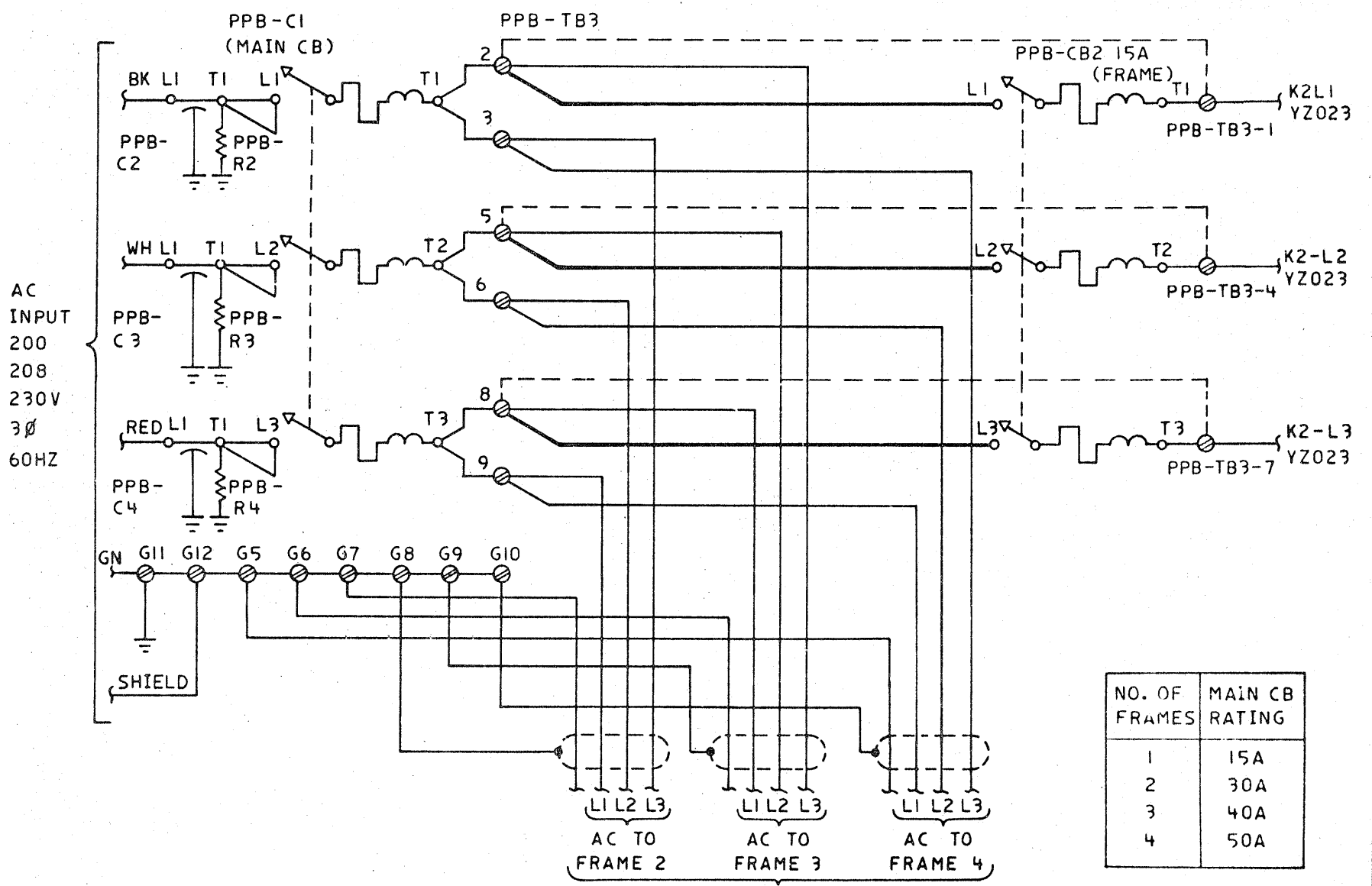
1770716

1770716

YZ021

DUPLICATE MASTER

200V 60HZ JAPAN
208/230V/60HZ WTC (MAIN FRAME)



CBI YZ025
(EXPANSION FRAME LOGIC - VOL 1)

NOTES

- 1 IF SYSTEM HAS ONLY 1 FRAME DOTTED JUMPERS ARE USED. — WIRES AND CB2 ARE OMITTED.
- 2 IF SYSTEM HAS MORE THAN 1 FRAME — WIRES AND CB2 ARE USED AND DOTTED JUMPERS ARE OMITTED
- SINGLE FRAME WIRING
- MULTIPLE FRAME WIRING

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NAME		DATE		CHANGE NO.		EAD	REVISED BY
200 V 60 HZ JAPAN, 208/230 V		SEE E.C. HISTORY					
60 HZ WTC MAIN FRAME		RED	MAR74	311065			
DESIGN	CD	JUL71					
DETAIL	TS	AUG76		RED	JUN76	314419	
CHECK				RED	AUG76	315608	
APPROV							
	CD	JUL71					YZ021

1770716

C

1750272

STANDARDS CODE

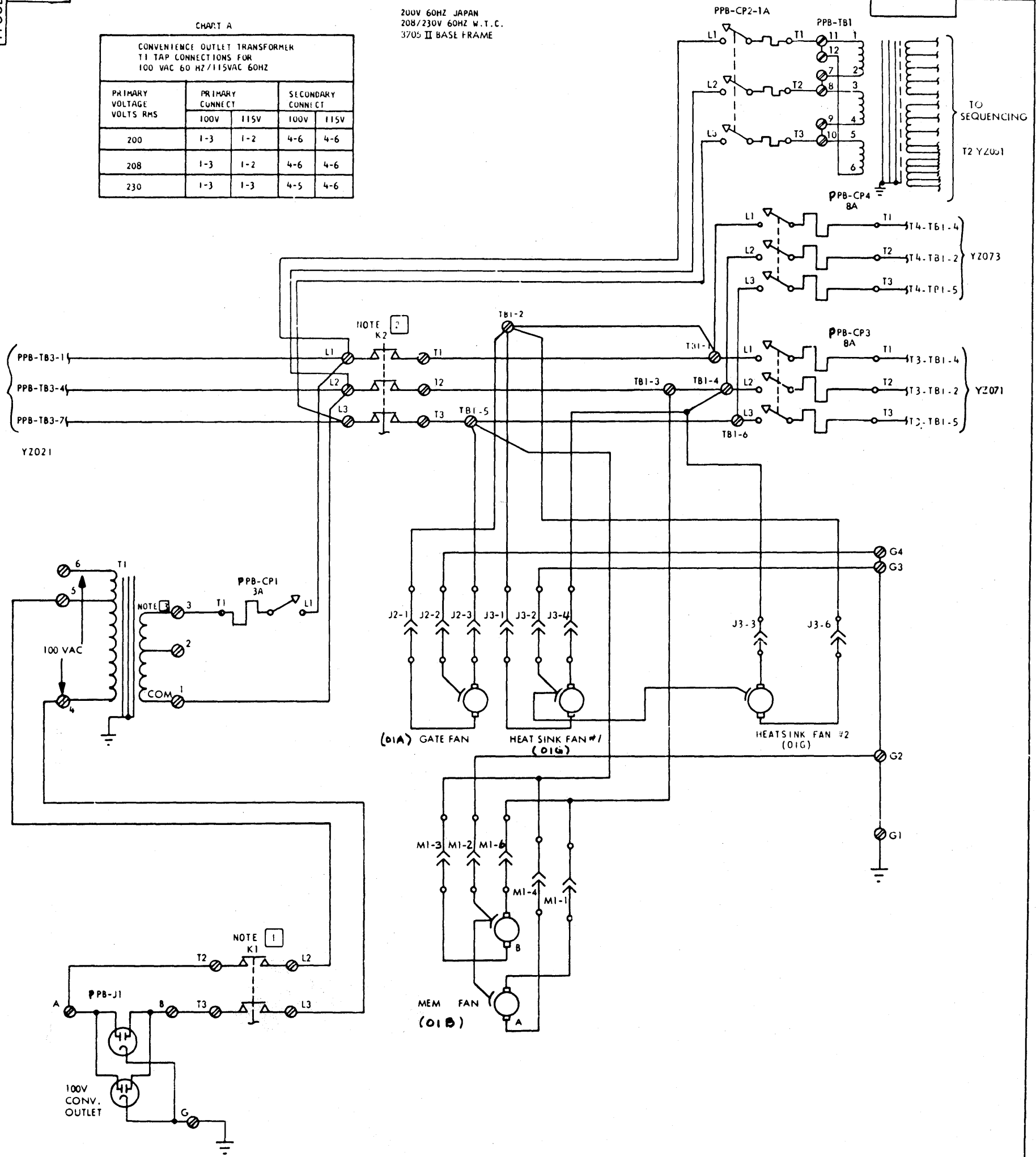
CARD CODE 1750272

CHART A

CONVENIENCE OUTLET TRANSFORMER
T1 TAP CONNECTIONS FOR
100 VAC 60 HZ/115VAC 60HZ

PRIMARY VOLTAGE VOLTS RMS	PRIMARY CONNECT		SECONDARY CONNECT	
	100V	115V	100V	115V
200	1-3	1-2	4-6	4-6
208	1-3	1-2	4-6	4-6
230	1-3	1-3	4-5	4-6

200V 60HZ JAPAN
208/230V 60HZ W.T.C.
3705 II BASE FRAME



- NOTES:
- 1. K1 COIL SHOWN ON YZ051
 - 2. K2 COIL SHOWN ON YZ052
 - 3. REFER TO CHART A FOR T1 TAP CONNECTIONS

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	200 60HZ JAPAN 208/230V 60HZ W.T.C. 3705 II BASE FRAME			MAY76	314419					1750272
DESIGN	TS	MAY76	MODEL							
DETAIL			SCALE							
CHECK	TS	MAY76	DRAWN							
APPRO	TS	MAY76	CHECK							
										YZ023

C

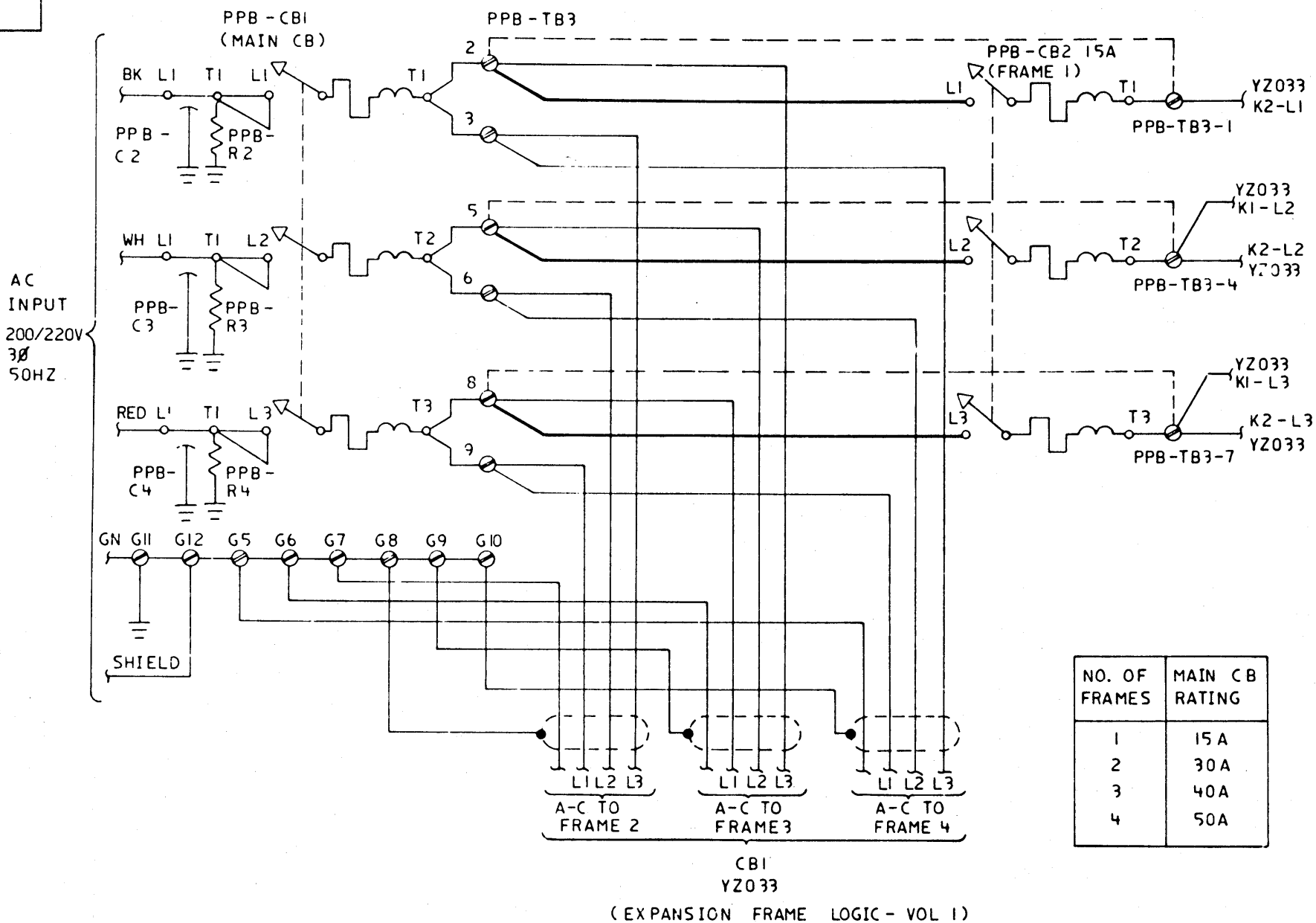
1770719 C

1770719

YZ031

DUPLICATE MASTER

200/220V 50HZ JAPAN (MAIN FRAME)



NOTES

- IF SYSTEM HAS ONLY 1 FRAME DOTTED JUMPERS ARE USED. — WIRES AND CB2 ARE OMITTED.
 - IF SYSTEM HAS MORE THAN 1 FRAME — WIRES AND CB2 ARE USED AND DOTTED JUMPERS ARE OMITTED
- SINGLE FRAME WIRING
 ——— MULTIPLE FRAME WIRING

NO.	DESCRIPTION	DATE	CHANGE NO.	DATE	CHANGE NO.
	200/220V 50HZ JAPAN MAIN FRAME		SEE E/C HISTORY		
CD	JUL71	RED	MAR74 310271		
TS	AUG76	RED	JUN76 314419		
			AUG76 315608		
	CD JUL71			YZ031	

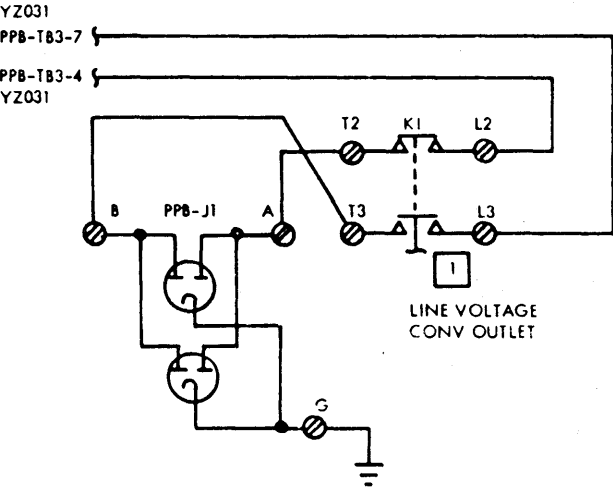
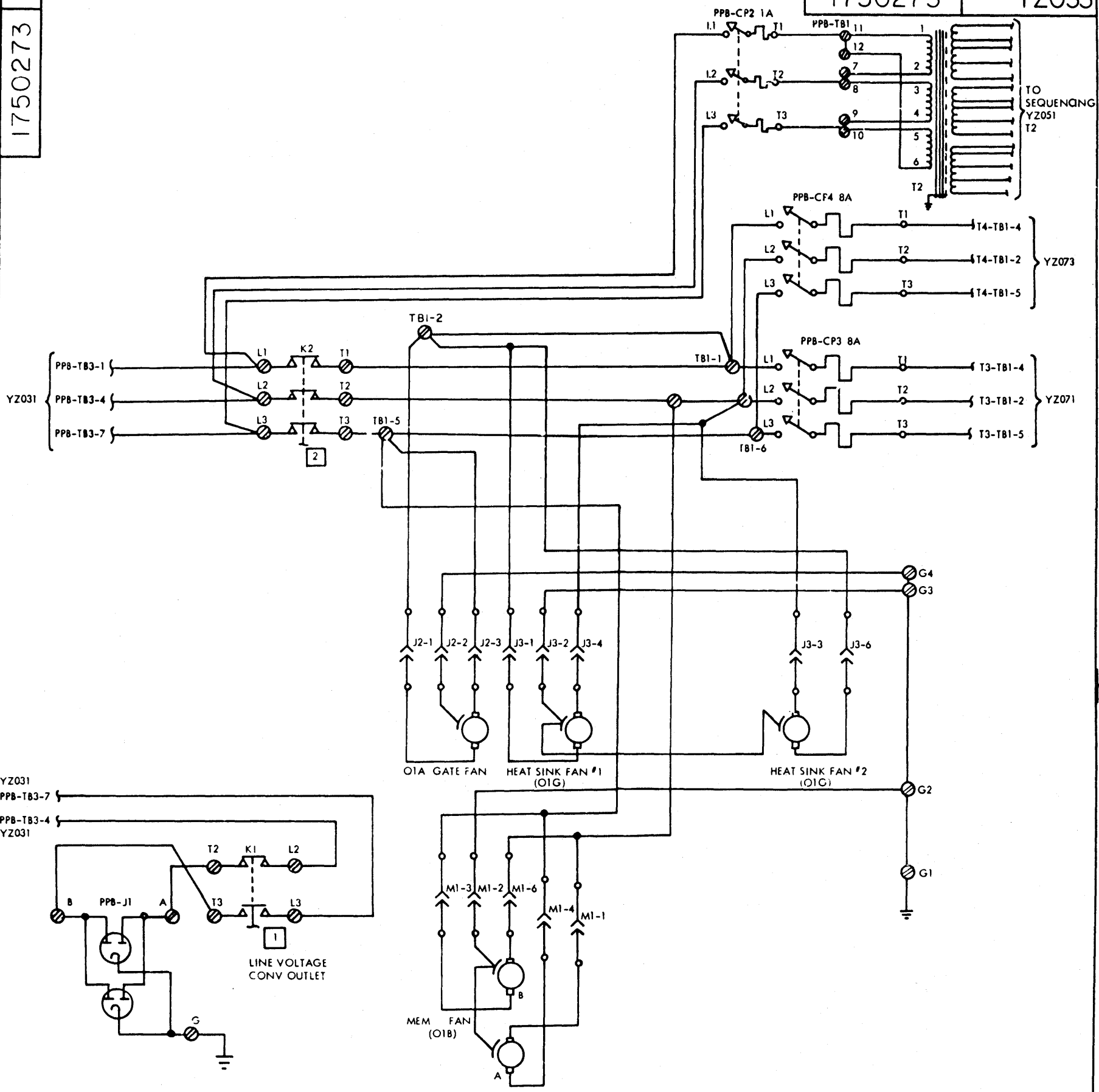
1770719 C

1750273 C

200/220V 50HZ JAPAN - 3705 II BASE FRAME

PART NO
1750273

LOGIC PG NO
YZ033



- NOTES
- ① K1 COIL SHOWN ON YZ051
 - ② K2 COIL SHOWN ON YZ052

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IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	200/220V 50 HZ JAPAN		MAY76	314419		
	3705 II BASE FRAME					
DESIGN	TS	MAY76	SHT	OF		
DETAIL						
CHECK	TS	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO	TS	MAY76				YZ033

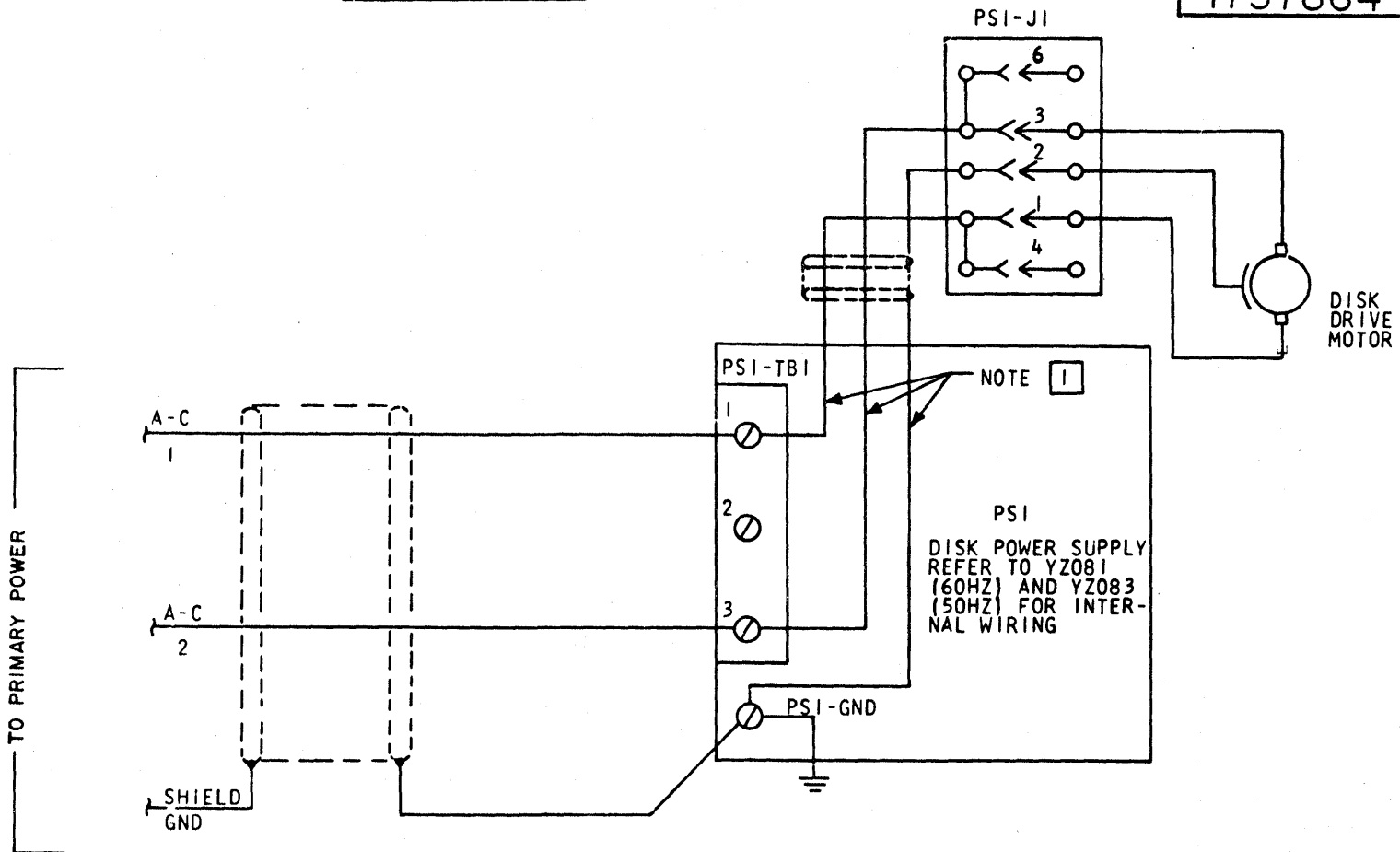
1750273 C

1757864

A-C POWER TO DISK

PART NO
1757864

LOGIC PG NO
YZ037



PRIMARY POWER BOX CONNECTION CHART

DISK LOCATION	CONNECT A-C 1 TO:	CONNECT A-C 2 TO:	CONNECT GND AND SHIELD TO:
60HZ MAIN FRAME (SEE YZ003)	K2-T2	K2-T3	FRAME GND (K2 MOUNTING BRKT)
60HZ EXPANSION FRAME (SEE YZ005)	K1-T1	K1-T3	FRAME GND (G1)
50HZ WT MAIN FRAME (SEE YZ014)	K2-T1	TB1-1	FRAME GND (K2 MOUNTING BRKT)
50HZ WT EXPANSION FRAME (SEE YZ015)	K1-T2	TB1-2	FRAME GND (G4)
200V 60HZ JAPAN MAIN FRAME (SEE YZ023)	K2-T2	K2-T3	FRAME GND (K2 MOUNTING BRKT)
200V 60HZ JAPAN EXPANSION FRAME (SEE YZ025)	K1-T1	K1-T3	FRAME GND (G1)
50HZ JAPAN MAIN FRAME (SEE YZ033)	K2-T2	K2-T3	FRAME GND (K2 MOUNTING BRKT)
50HZ JAPAN EXPANSION FRAME (SEE YZ035)	K1-T1	K1-T3	FRAME GND (G1)

NOTES

1. PART OF PSI INTERNAL WIRING. REFER TO YZ081 AND YZ083.

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	A-C POWER TO DISK			AUG 76	315058		
				JUL 77	316710		
DESIGN	DD	AUG 76	SHT OF				
DETAIL							
CHECK	WJK	AUG 76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO							YZ037

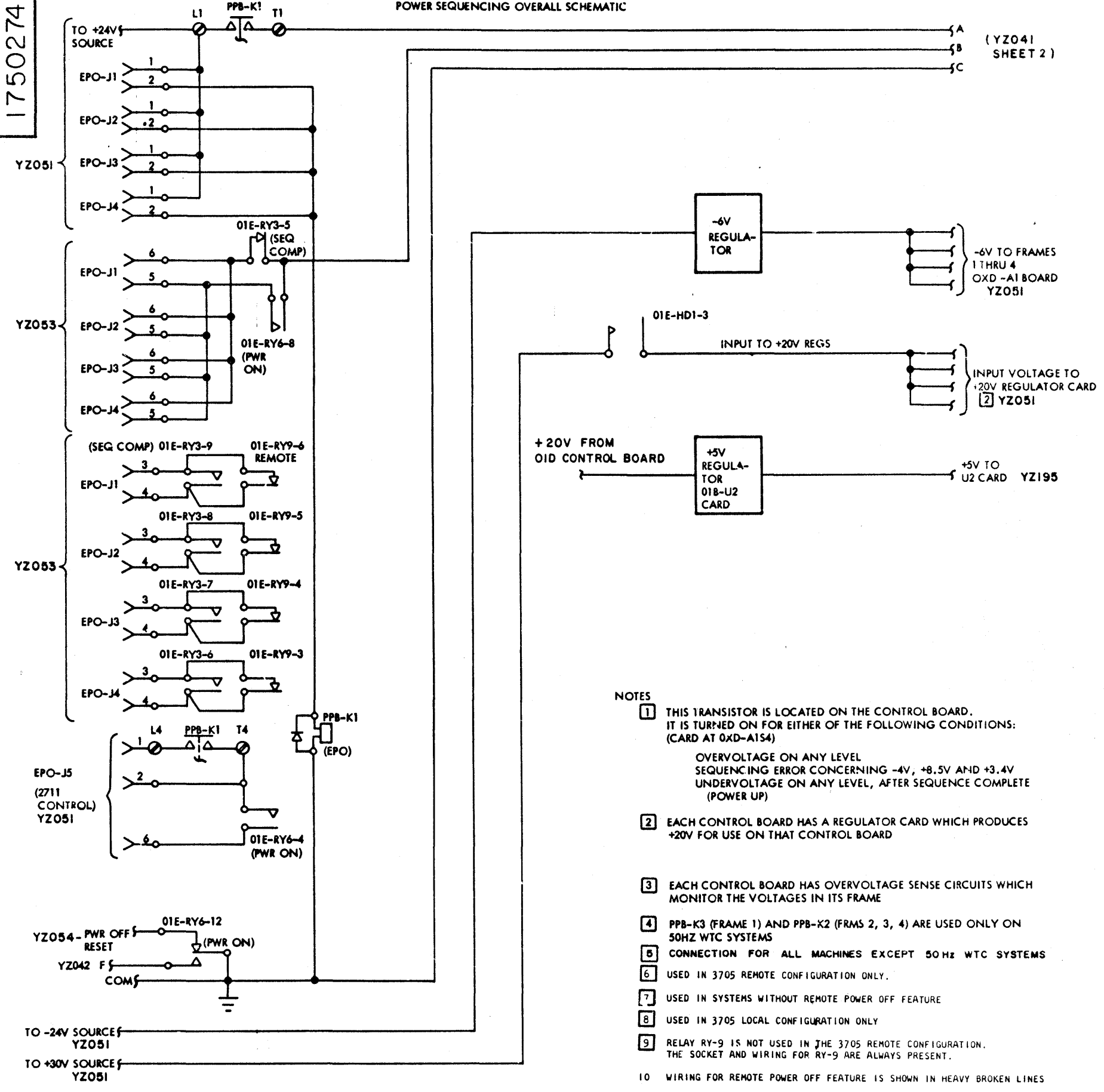
1757864 C

1750274 C

PART NO
1750274

LOGIC PG. NO
YZ041

3705 II BASE FRAME
POWER SEQUENCING OVERALL SCHEMATIC



- NOTES
- 1 THIS TRANSISTOR IS LOCATED ON THE CONTROL BOARD. IT IS TURNED ON FOR EITHER OF THE FOLLOWING CONDITIONS: (CARD AT 0XD-A154)
OVERVOLTAGE ON ANY LEVEL
SEQUENCING ERROR CONCERNING -4V, +8.5V AND +3.4V
UNDERVOLTAGE ON ANY LEVEL, AFTER SEQUENCE COMPLETE (POWER UP)
 - 2 EACH CONTROL BOARD HAS A REGULATOR CARD WHICH PRODUCES +20V FOR USE ON THAT CONTROL BOARD
 - 3 EACH CONTROL BOARD HAS OVERVOLTAGE SENSE CIRCUITS WHICH MONITOR THE VOLTAGES IN ITS FRAME
 - 4 PPB-K3 (FRAME 1) AND PPB-K2 (FRMS 2, 3, 4) ARE USED ONLY ON 50HZ WTC SYSTEMS
 - 5 CONNECTION FOR ALL MACHINES EXCEPT 50 Hz WTC SYSTEMS
 - 6 USED IN 3705 REMOTE CONFIGURATION ONLY.
 - 7 USED IN SYSTEMS WITHOUT REMOTE POWER OFF FEATURE
 - 8 USED IN 3705 LOCAL CONFIGURATION ONLY
 - 9 RELAY RY-9 IS NOT USED IN THE 3705 REMOTE CONFIGURATION. THE SOCKET AND WIRING FOR RY-9 ARE ALWAYS PRESENT.
 - 10 WIRING FOR REMOTE POWER OFF FEATURE IS SHOWN IN HEAVY BROKEN LINES

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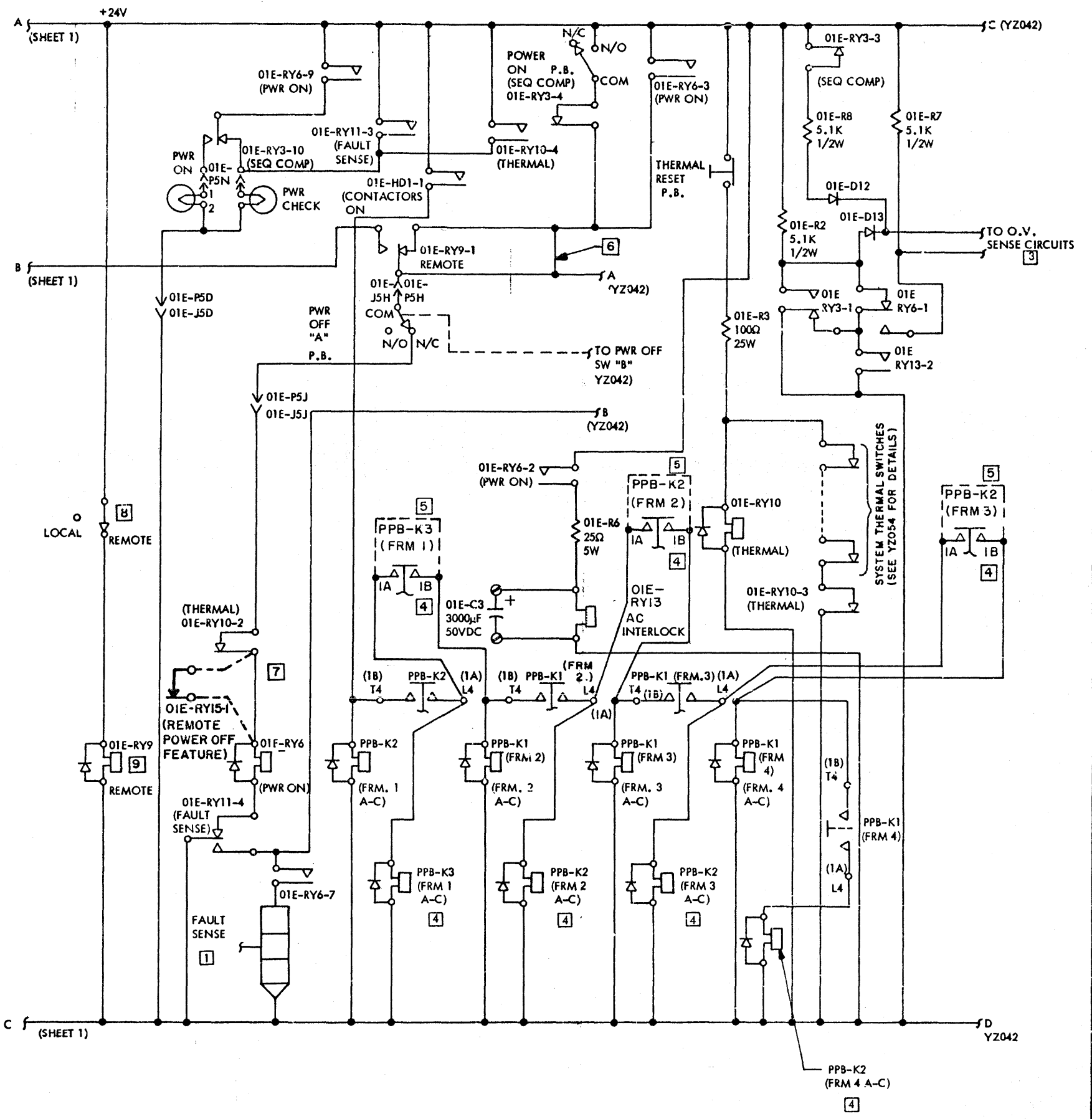
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	POWER SEQUENCING SCHEMATIC			MAY76	314419		
	3705 II BASE FRAME			JUL 76	315605		
DESIGN	TES	MAY76	SHT 1 OF 2	NOV76	315621		
DETAIL							
CHECK	TES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	TES	MAY76					YZ041

1750274 C

1750274 C

PART NO 1750274 LOGIC PG NO YZ041

3705 II BASE FRAME
POWER SEQUENCING OVERALL SCHEMATIC



(SEE SHEET 1 OF 2 FOR NOTES)

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	POWER SEQUENCING SCHEMATIC			MAY76	314419		
3705 II BASE FRAME				JUL76	315605		
DESIGN	TES	MAY76	SHT 2 OF 2	NOV76	315621		
DETAIL							
CHECK	TES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TES	MAY76				LOGIC PG NO	
						YZ041	

1750274 C

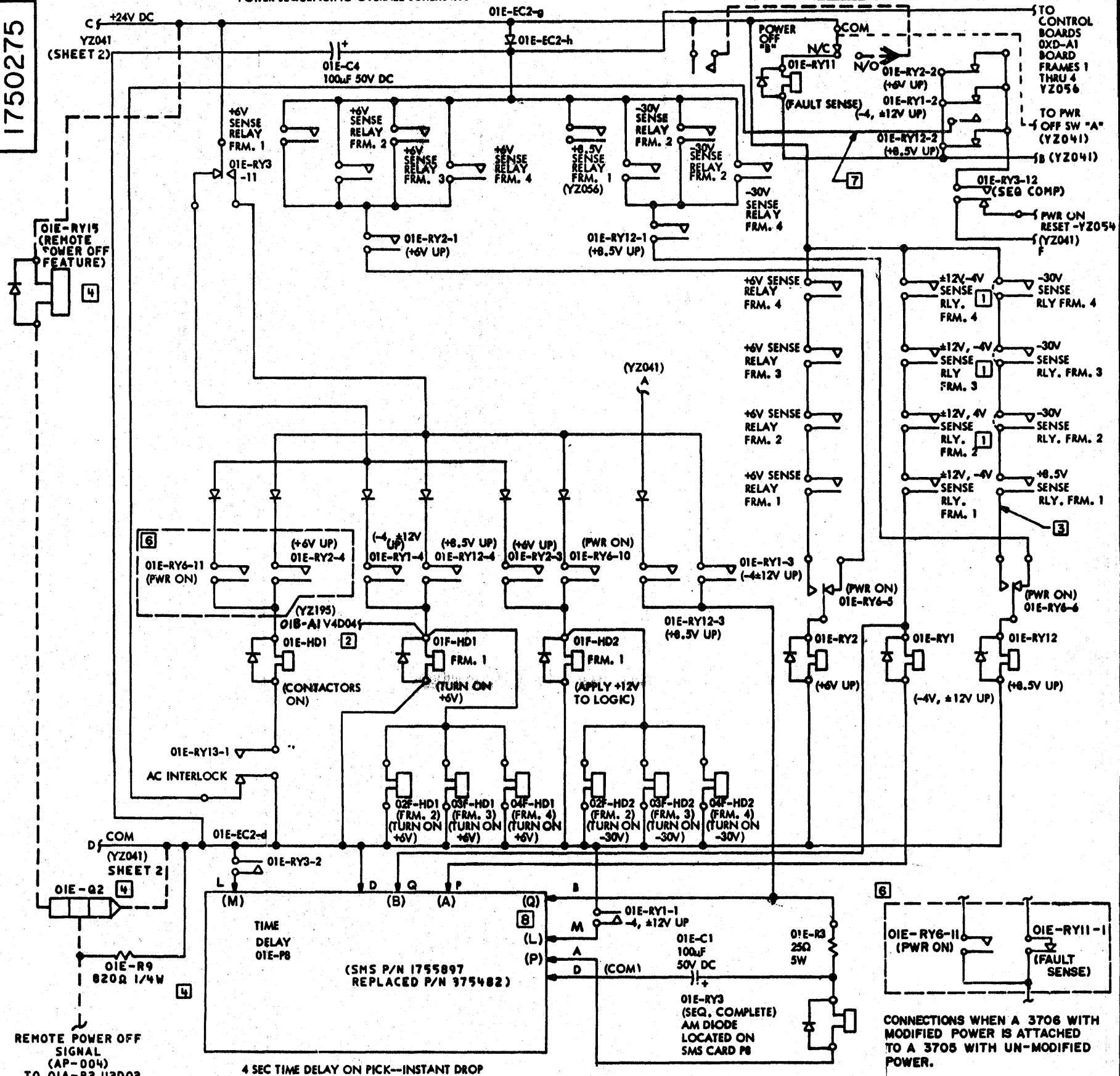
1750275 C

3705 II BASE FRAME
POWER SEQUENCING OVERALL SCHEMATIC

01E-RY15-2
(REMOTE POWER OFF FEATURE)

PART NO
1750275

LOGIC PG NO
YZ042



REMOTE POWER OFF SIGNAL (AP-004) TO O1A-B3 U3D03

NOTES

- 1 JUMPER IF -30V NOT PRESENT IN EXPANSION FRAMES (i.e. 0XD-N4, P4, Q4, R4 AND S5 CONTROL CARDS OUT). SEE YZ056
- 2 +24V HERE BEGINS THE MEMORY +8.5V AND +3.4V SEQUENCE
- 3 THIS LINE IS DEPENDENT ON -30V IN FRAMES WHICH HAVE ACTIVE -30V LEVELS
- 4 USED IN SYSTEMS WITH REMOTE POWER OFF FEATURE
- 5 WIRING FOR REMOTE POWER OFF FEATURE IS SHOWN IN HEAVY BROKEN LINES

- 7 THIS WIRE IS DISCONNECTED AND TIED BACK WHEN A 3706 WITH MODIFIED POWER IS ATTACHED TO A 3705 WITH UN-MODIFIED POWER.
- 8 PINS SHOWN IN PARENTHESES () ARE CONNECTIONS TO THE TIME DELAY CARD IF EC 995883 IS INSTALLED.

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	POWER SEQUENCING SCHEMATIC			MAY 76	314419		
3705 II BASE FRAME				DEC 76	315621		
DESIGN	TES	MAY76	SHT 1 OF 1	NOV80	344409		
DETAIL				FEB82	995883		
CHECK	TES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TES	MAY76				LOGIC PG NO	
						YZ042	

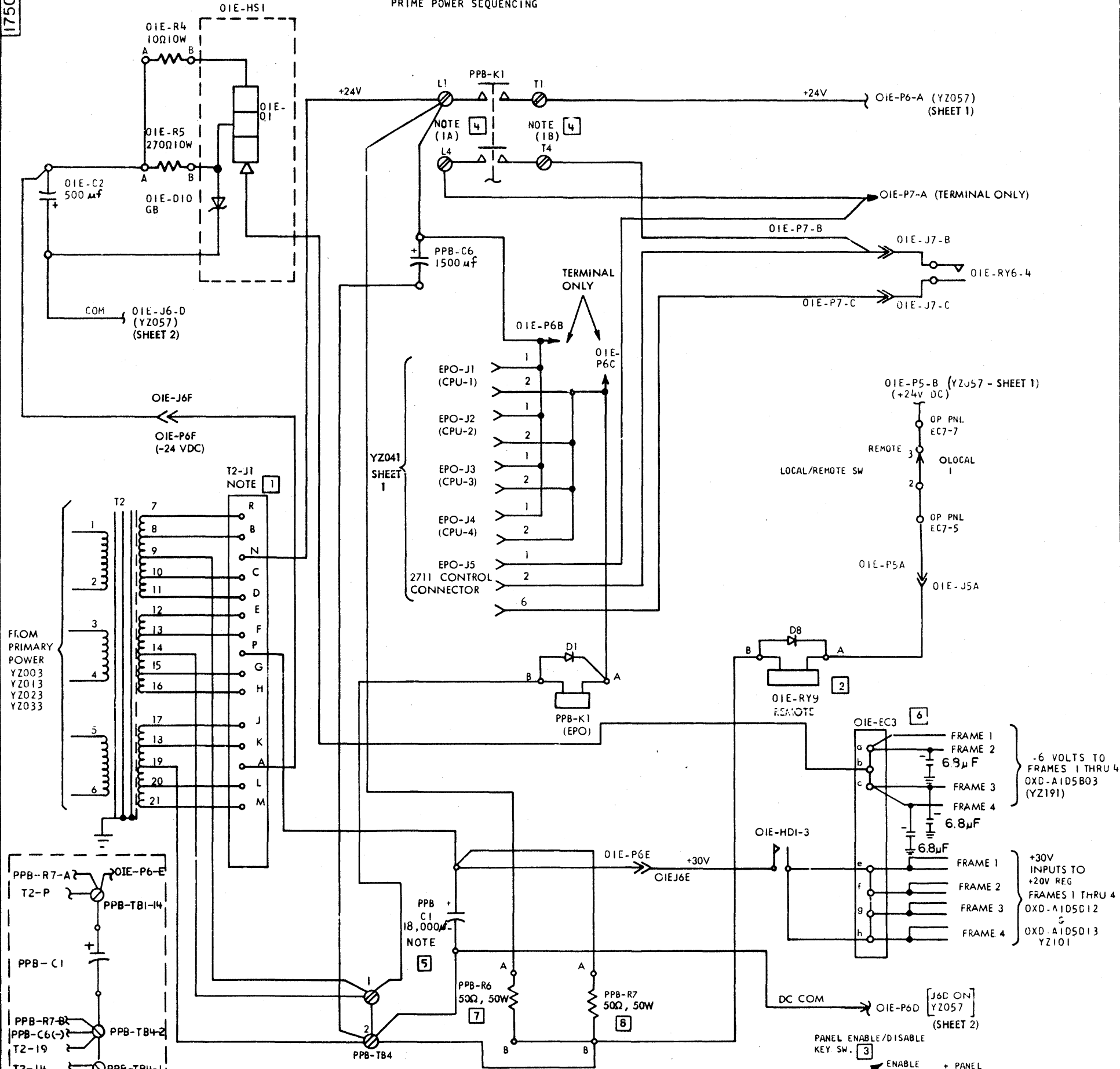
1750275 C

1750276

STANDARDS CODE

CARD CODE 1750276

3705 II BASE FRAME
PRIME POWER SEQUENCING



DETAIL A
WIRING OF PPB-C1 FOR
MACHINE INSTALLED IN
GERMANY

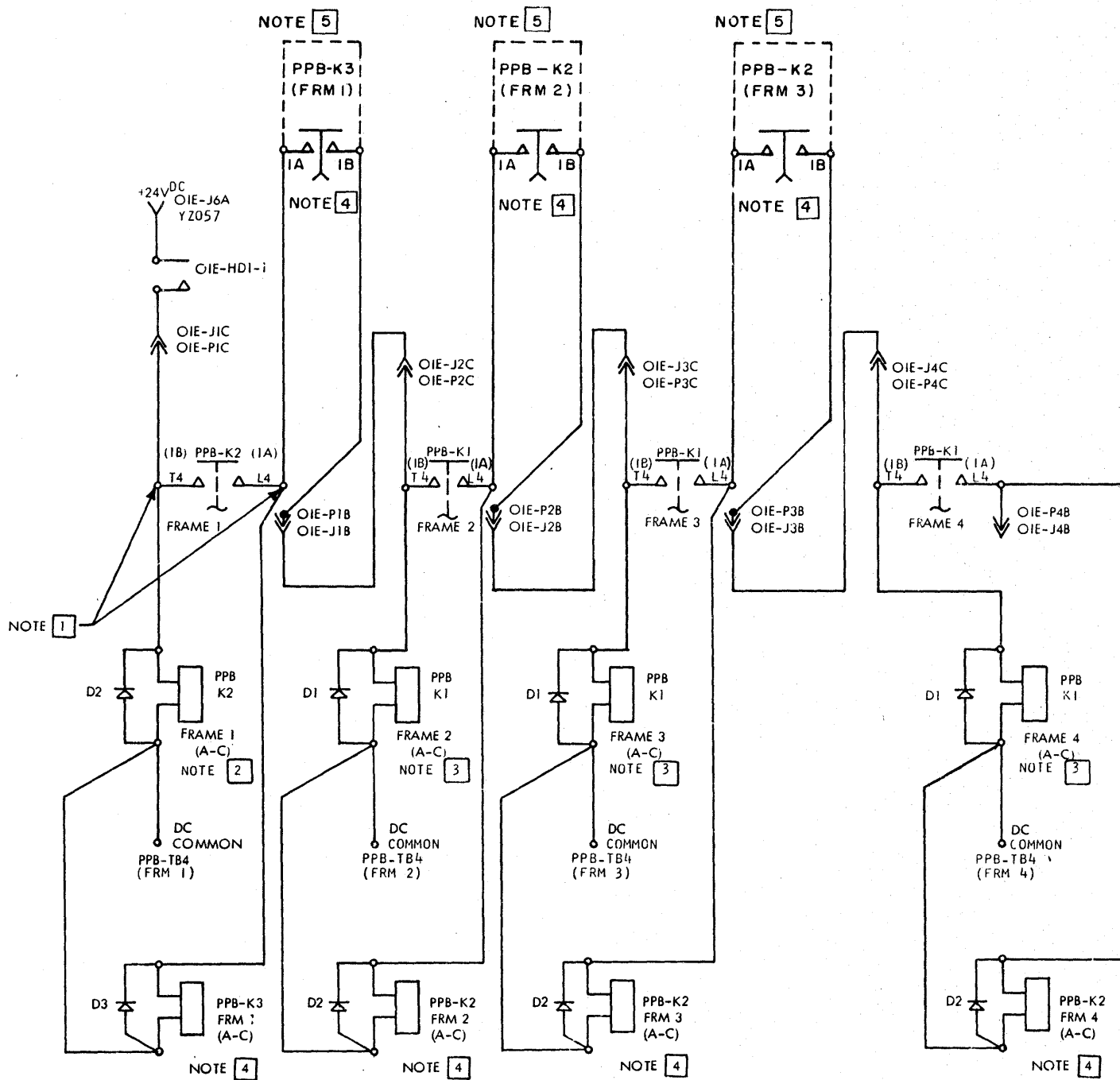
- NOTES:
1. T2-J1 IS AN SMS SOCKET WHICH IS ATTACHED TO TRANSFORMER T2. CARD P/M 375504 IS USED IN THIS SOCKET.
 2. RELAY RY9 IS NOT USED IN THE 3705 REMOTE CONFIGURATION. THE SOCKET AND WIRING FOR RY9 ARE ALWAYS PRESENT.
 3. USED IN SYSTEMS WITH UNIT SECURITY FEATURE.
 4. POINTS DESIGNATED 1A AND 1B ON 50 HZ WTC SYSTEMS ONLY.
 5. CAPACITOR PPB-C1 WIRED AS SHOWN FOR ALL SYSTEMS EXCEPT THOSE INSTALLED IN GERMANY. SEE DETAIL A.
 6. THESE CAPACITOR ASSEMBLIES ARE INSTALLED ONLY ON THE OXD-A1 BOARD END OF CABLE ASSEMBLIES P/M 5993288, 5993289 & 5993290 AT EC LEVEL 311051 GR LATER.

- NOTES CONTINUED:
7. THIS RESISTOR IS USED IN SYSTEMS WITH ONE OR TWO FRAMES. IT IS REMOVED FOR THREE OR FOUR FRAME SYSTEMS.
 8. THIS RESISTOR IS 50Ω 50W IN ONE OR TWO FRAME SYSTEMS. IT IS 25Ω 25W IN THREE OR FOUR FRAME SYSTEMS.

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME PRIME POWER SEQUENCING				MAY76	314419					1750276
3705 II BASE FRAME				OCT78	318894					
DESIGN	TS	MAY76	MODEL							
DETAIL	TS	MAY76	SCALE							
CHECK	TS	MAY76	DRAW							
APPROV	TS	MAY76	CHECK							YZ051

PRIME POWER SEQUENCING



NOTES

1. POINTS DESIGNATED IA & IB ON 50HZ WTC SYSTEMS ONLY.
2. ADDITIONAL POINTS FOR K2 SHOWN ON Y2003, Y2013, Y2023 & Y2033 (MAIN FRAME POWER)
3. ADDITIONAL POINTS FOR K1 SHOWN ON Y2005, Y2015, Y2025 & Y2035 (EXPANSION FRAME POWER)
4. PPB-K3 (FRM 1) AND PPB-K2 (FRMS 2,3,4) ARE USED ONLY ON 50HZ WTC SYSTEMS. ADDITIONAL POINTS FOR THESE CONTACTORS ARE SHOWN ON Y2013 AND Y2015
5. CONNECTION FOR ALL MACHINES EXCEPT 50HZ WTC SYSTEMS

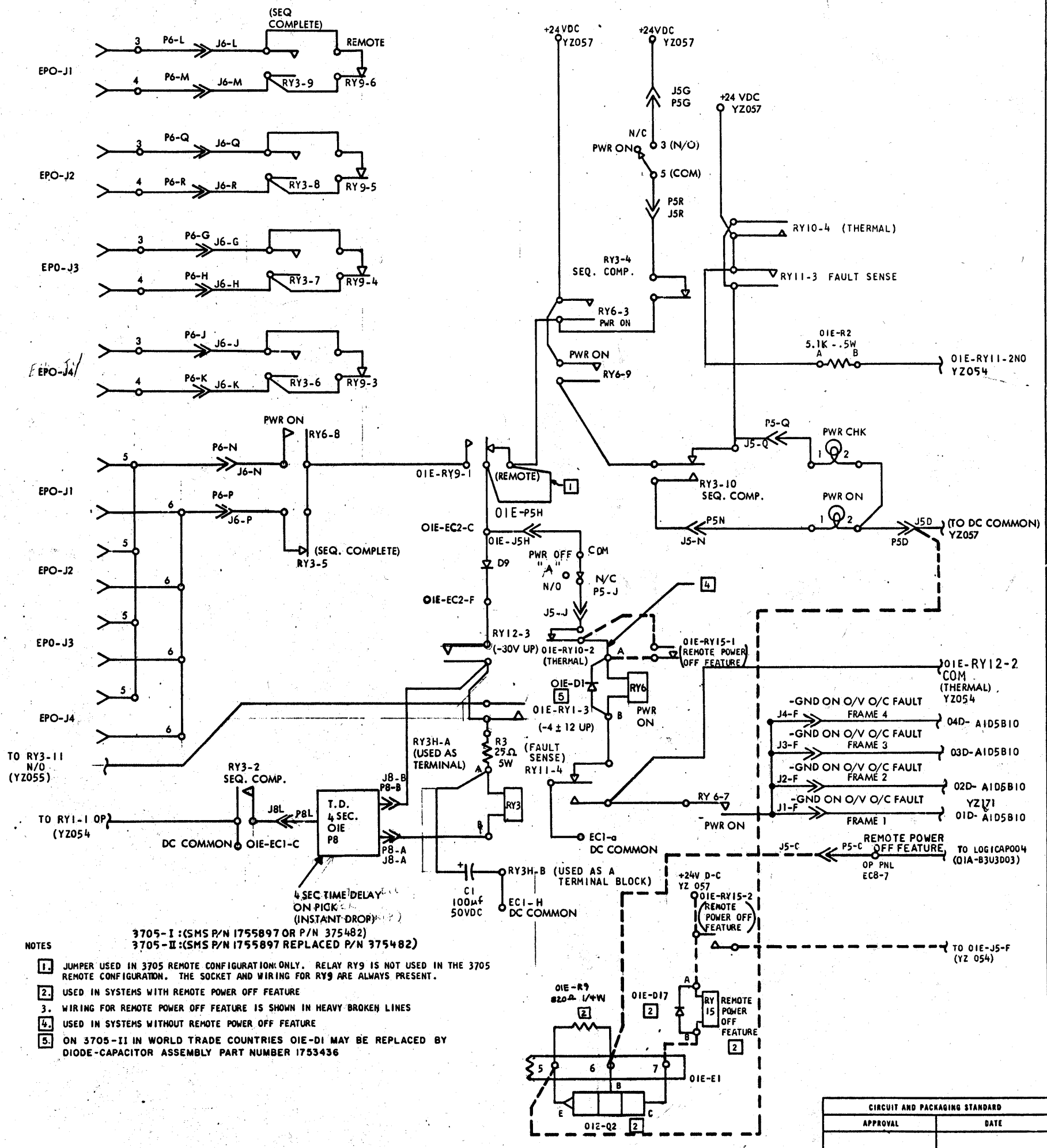
CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME PRIME POWER SEQUENCING				NOV71	309504					
DESIGN GJF JUL71 MODEL				FEB72	309508					
DETAIL VR JUL71 SCALE				JUN72	309742					
CHECK				JUL76	315605					
APPRO										
										1770745
										Y2052

STANDARDS CODE
1770726

EPO

CARD CODE 1770726



- NOTES
1. JUMPER USED IN 3705 REMOTE CONFIGURATION ONLY. RELAY RY9 IS NOT USED IN THE 3705 REMOTE CONFIGURATION. THE SOCKET AND WIRING FOR RY9 ARE ALWAYS PRESENT.
 2. USED IN SYSTEMS WITH REMOTE POWER OFF FEATURE
 3. WIRING FOR REMOTE POWER OFF FEATURE IS SHOWN IN HEAVY BROKEN LINES
 4. USED IN SYSTEMS WITHOUT REMOTE POWER OFF FEATURE
 5. ON 3705-II IN WORLD TRADE COUNTRIES OIE-D1 MAY BE REPLACED BY DIODE-CAPACITOR ASSEMBLY PART NUMBER 1753436

3705-I:(SMS P/N 1755897 OR P/N 375482)
3705-II:(SMS P/N 1755897 REPLACED P/N 375482)

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	EPO			NOV71	309504		AUG72	309748		1770726
DESIGN	GJF	JUL71	MODEL	DEC71	309506		FEB73	309916		
DETAIL	VR	JUL71	SCALE	FEB72	309508		MAY73	311052		
CHECK			DRAW	MAR72	309733		DEC76	315621		
APPRO			CHECK	JUN72	309742		AUG77	313977		

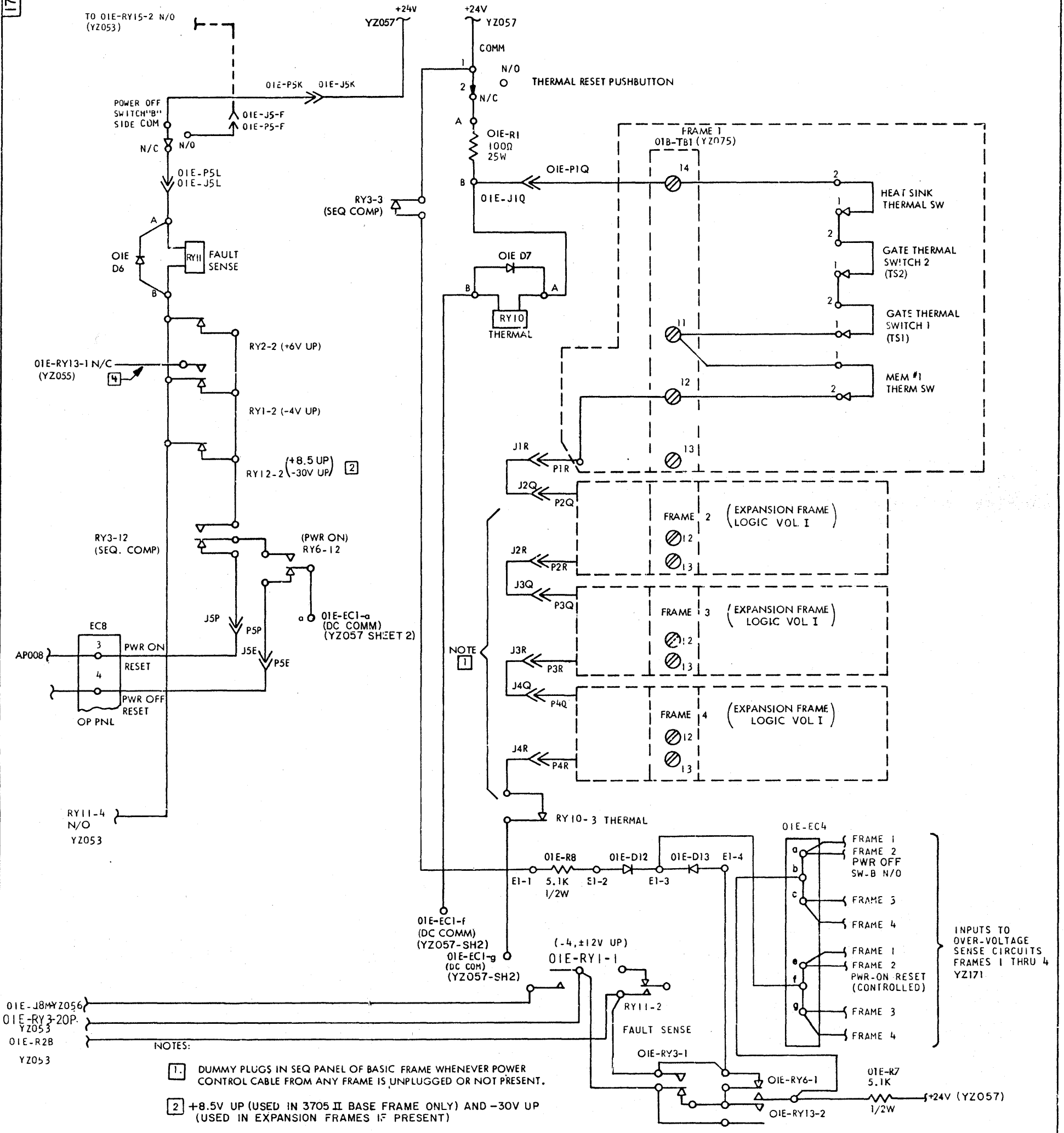
C

1750277

STANDARDS CODE

CARD CODE 1750277
YZ054

THERMAL AND FAULT SENSE
3705 II BASE FRAME



NOTES:

- 1. DUMMY PLUGS IN SEQ PANEL OF BASIC FRAME WHENEVER POWER CONTROL CABLE FROM ANY FRAME IS UNPLUGGED OR NOT PRESENT.
- 2. +8.5V UP (USED IN 3705 II BASE FRAME ONLY) AND -30V UP (USED IN EXPANSION FRAMES IF PRESENT)
- 3. WIRING FOR REMOTE POWER OFF FEATURE IS SHOWN IN HEAVY BROKEN LINES
- 4. THIS WIRE IS DISCONNECTED AND TIED BACK WHEN A 3706 WITH MODIFIED POWER IS ATTACHED TO A 3705 WITH UNMODIFIED POWER.

O1E-J8 MYZ056
O1E-RY3-20P YZ053
O1E-R2B YZ053

INPUTS TO OVER-VOLTAGE SENSE CIRCUITS FRAMES 1 THRU 4 YZ171

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME THERMAL AND FAULT SENSE				MAY76	314419					1750277
3705 II BASE FRAME				NOV76	315621					
DESIGN	TS	MAY76	MODEL							
DETAIL			SCALE	MAY81	344445					
CHECK	TS	MAY76	DRAW							
APPRO	TS	MAY76	CHECK							YZ054

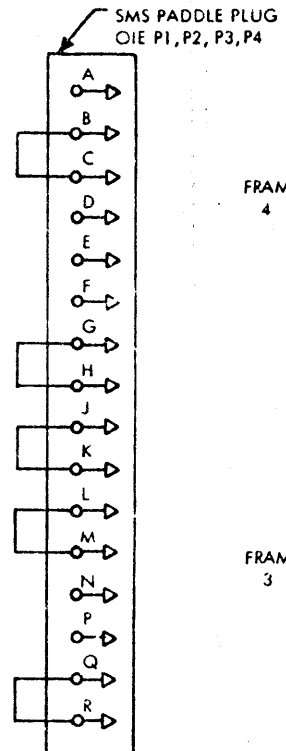
C

1750279

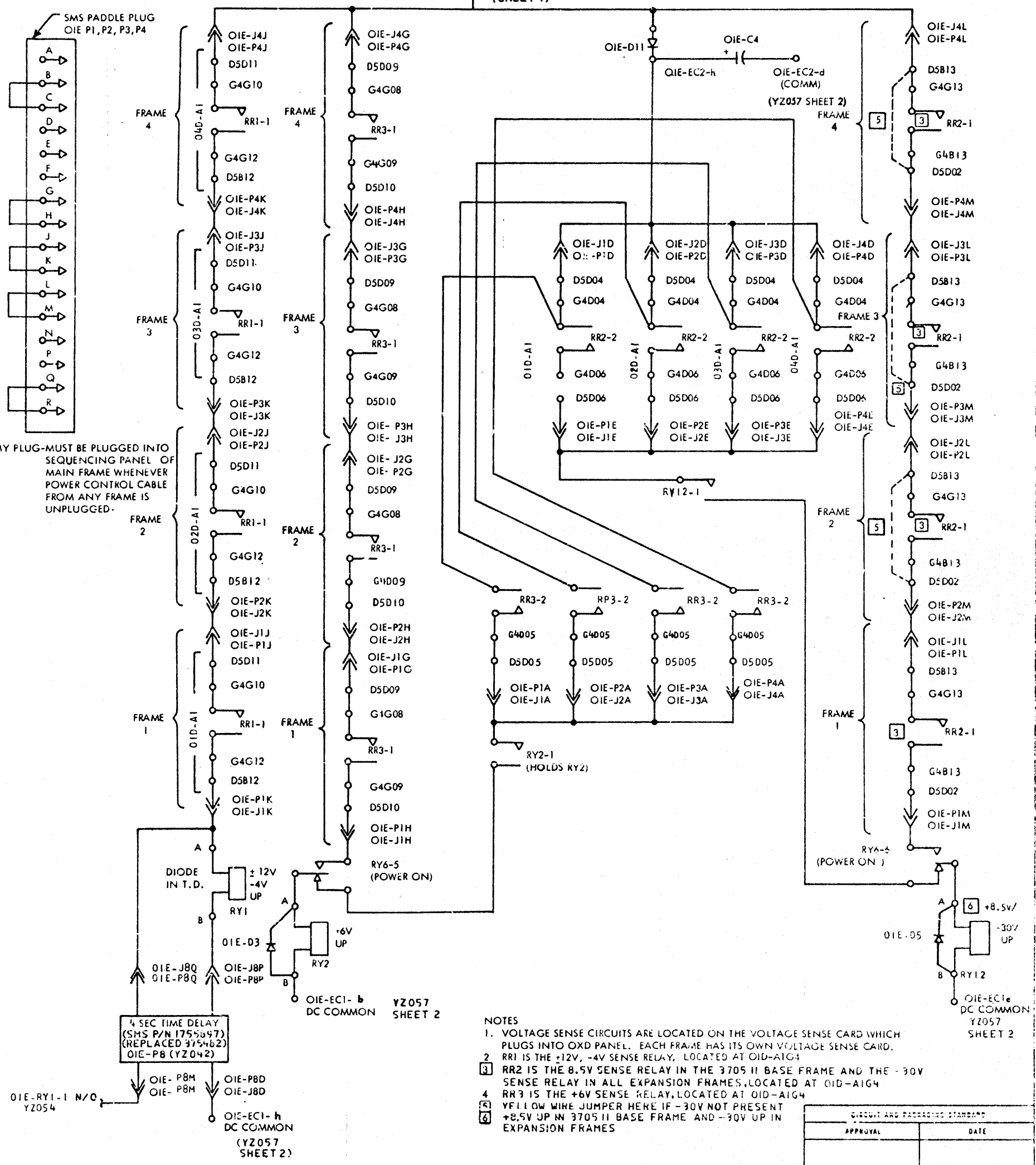
STANDARDS CODE

CARD CODE 1750279

D.C. SEQUENCING
3705 II BASE FRAME
24VDC (YZ057)
(SHEET 1)



DUMMY PLUG-MUST BE PLUGGED INTO SEQUENCING PANEL OF MAIN FRAME WHENEVER POWER CONTROL CABLE FROM ANY FRAME IS UNPLUGGED.



- NOTES
- VOLTAGE SENSE CIRCUITS ARE LOCATED ON THE VOLTAGE SENSE CARD WHICH PLUGS INTO OXD PANEL. EACH FRAME HAS ITS OWN VOLTAGE SENSE CARD.
 - RR1 IS THE +12V, -4V SENSE RELAY, LOCATED AT O1D-A1G4
 - RR2 IS THE 8.5V SENSE RELAY IN THE 3705 II BASE FRAME AND THE -30V SENSE RELAY IN ALL EXPANSION FRAMES, LOCATED AT O1D-A1G4
 - RR3 IS THE +6V SENSE RELAY, LOCATED AT O1D-A1G4
 - FOLLOW WIRE JUMPER HERE IF -30V NOT PRESENT
 - +8.5V UP IN 3705 II BASE FRAME AND -30V UP IN EXPANSION FRAMES

CIRCUIT AND PACKAGING STANDARDS	
APPROVAL	DATE

DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
MAY 76	314419					
DEC 76	315621					

1750279

C

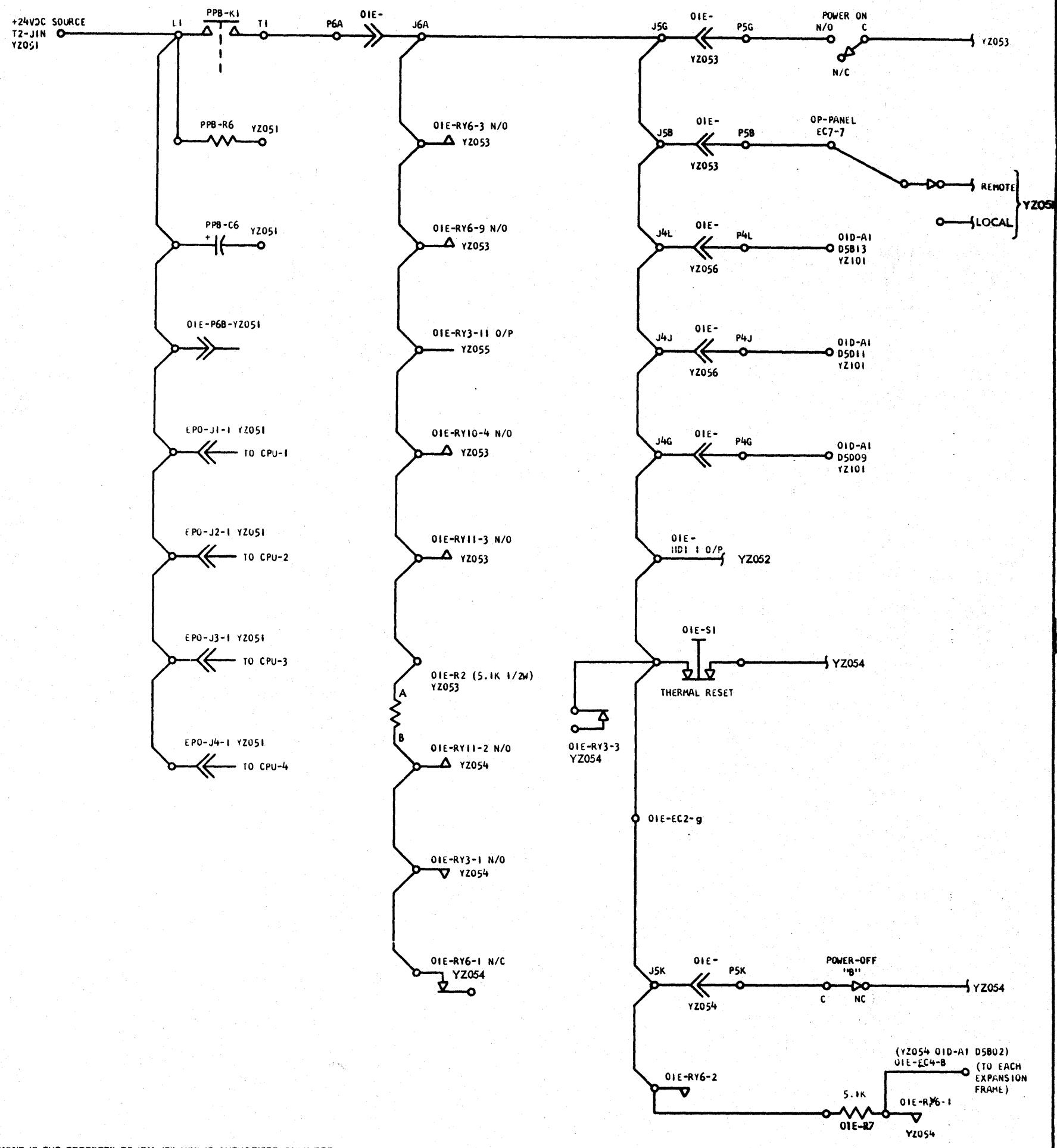
1750280 C

PART NO 1750280 LOGIC PG NO YZ057

SHEET 1 OF 2

3705 II BASE FRAME

+24V.D.C. = POINT-TO-POINT WIRING



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	+ 24VDC AND COMMON DIST.			MAY76	314419		
3705 II BASE FRAME				AUG76	315608		
DESIGN	YES	MAY76	SHT 1 OF 2				
DETAIL				RED			
CHECK	YES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	YES	MAY76				LOGIC PG NO YZ057	

1750280 C

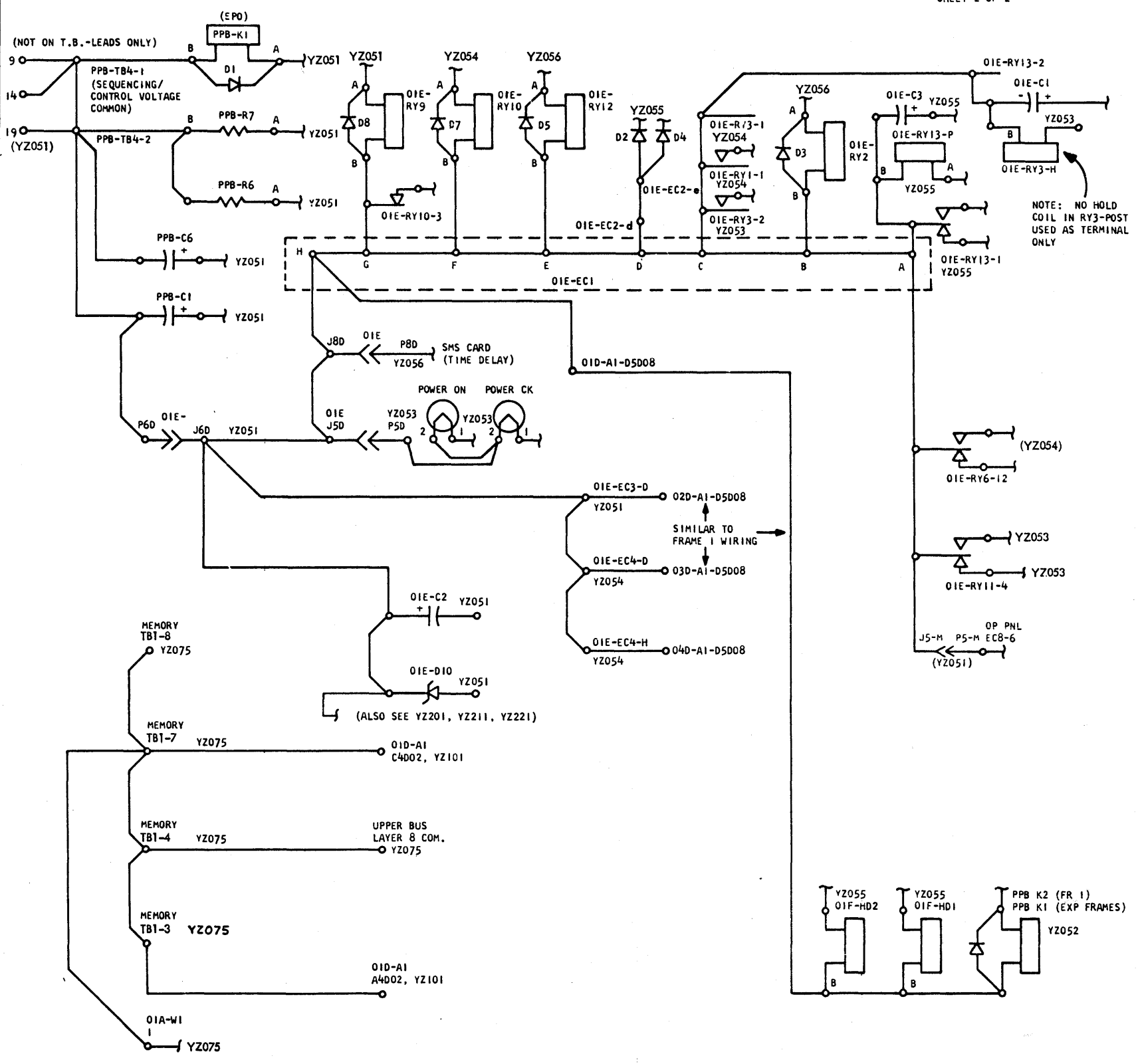
1750280

PART NO
1750280

LOGIC PG NO
YZ057

SHEET 2 OF 2

D.C. "COMMON" - POINT-TO-POINT WIRING



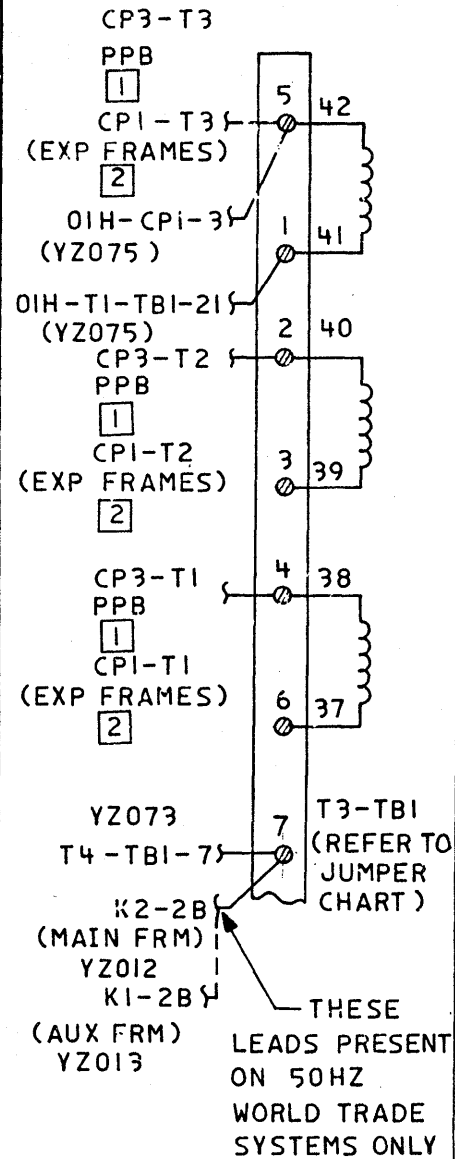
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	+24VDC AND Common Dist.			MAY76	314419		
3705 II BASE FRAME				AUG76	315608		
DESIGN	TES	MAY76	SHT 2 OF 2				
DETAIL							
CHECK	TES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	TES	MAY76					YZ057

1750280

C

1749719C



NOTES

- 1 FROM YZ003, YZ013, YZ023 & YZ033
- 2 FROM YZ005, YZ015, YZ025 & YZ035
- 3 CONVERTED OR RECON MACHINE OXF(HD2-1, HD2-3) PERFORM NO FUNCTION
- 4 PRODUCTION (NEW) MACHINE

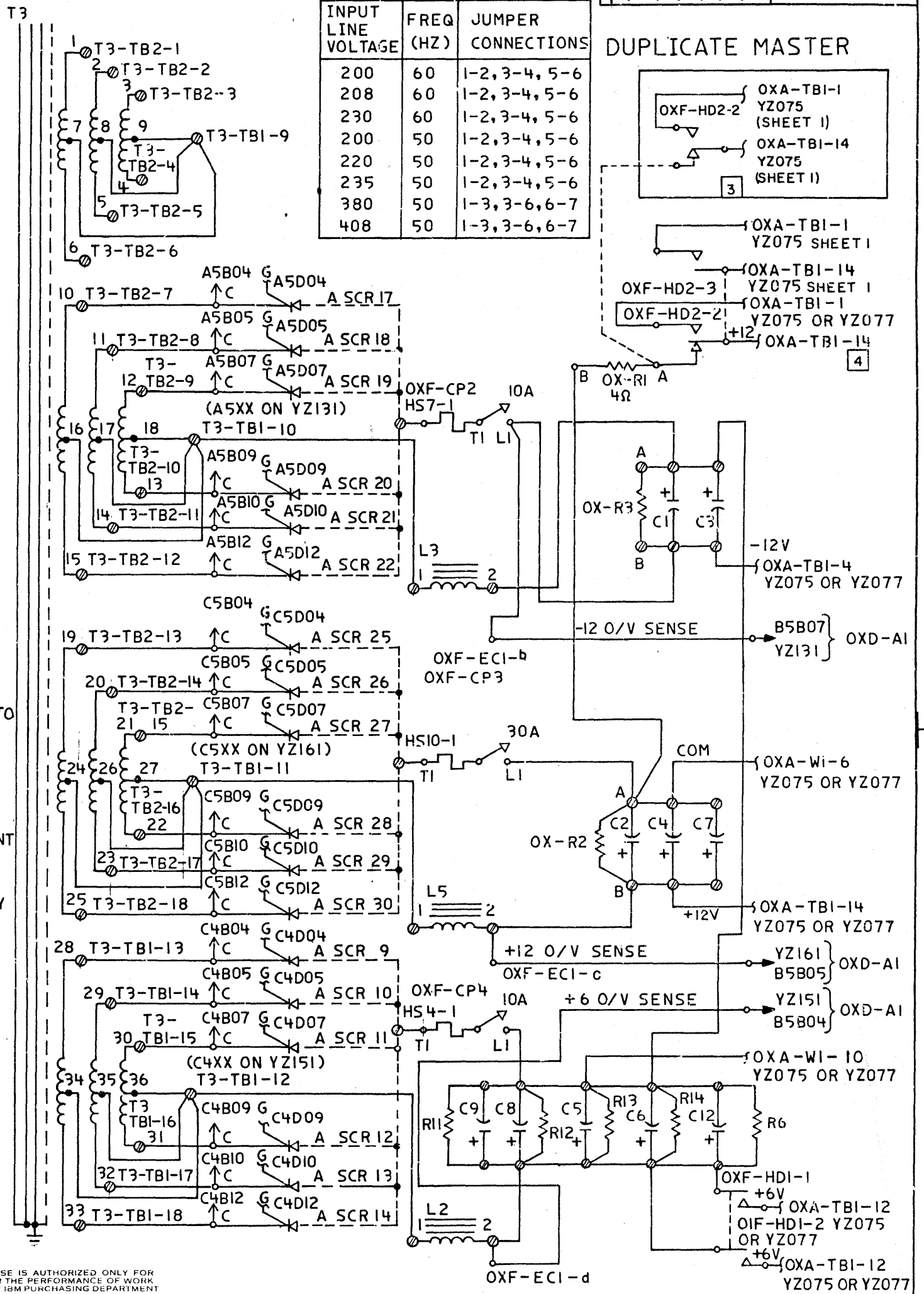
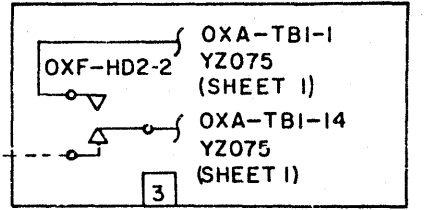
JUMPER CHART (T3)

INPUT LINE VOLTAGE	FREQ (HZ)	JUMPER CONNECTIONS
200	60	1-2, 3-4, 5-6
208	60	1-2, 3-4, 5-6
230	60	1-2, 3-4, 5-6
200	50	1-2, 3-4, 5-6
220	50	1-2, 3-4, 5-6
235	50	1-2, 3-4, 5-6
380	50	1-3, 3-6, 6-7
408	50	1-3, 3-6, 6-7

1749719

LOGIC PG. NO
YZ071

DUPLICATE MASTER



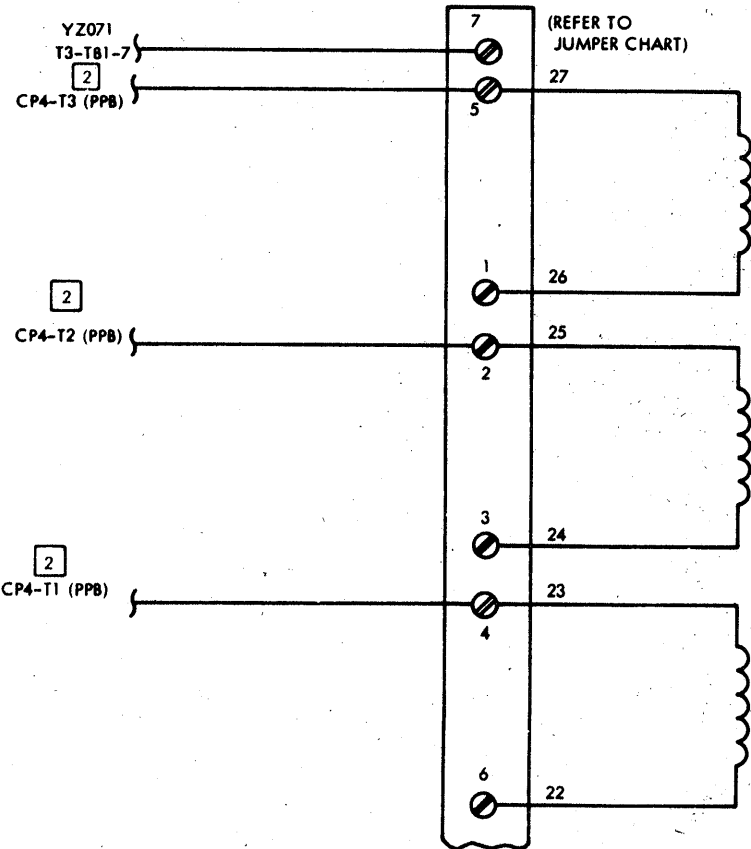
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NAME		DATE	CHANGE NO	DATE	CHANGE NO
D-C DISTRIBUTION		JAN 76	312922	JUN 77	313977
MAIN FRAME (3705 E,F,G,H)		JUN 76	314419	MAR 78	318043
DESIGN	SHT OF	DATE	CHANGE NO	DATE	CHANGE NO
DETAIL	TS	AUG 76	315608		
CHECK		NOV 76	315621		
APPRO					
CLASSIFICATION			MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
					YZ071

1749719C

C
1750281

THIS LEAD PRESENT ON 50 HZ WORLD TRADE SYSTEM ONLY



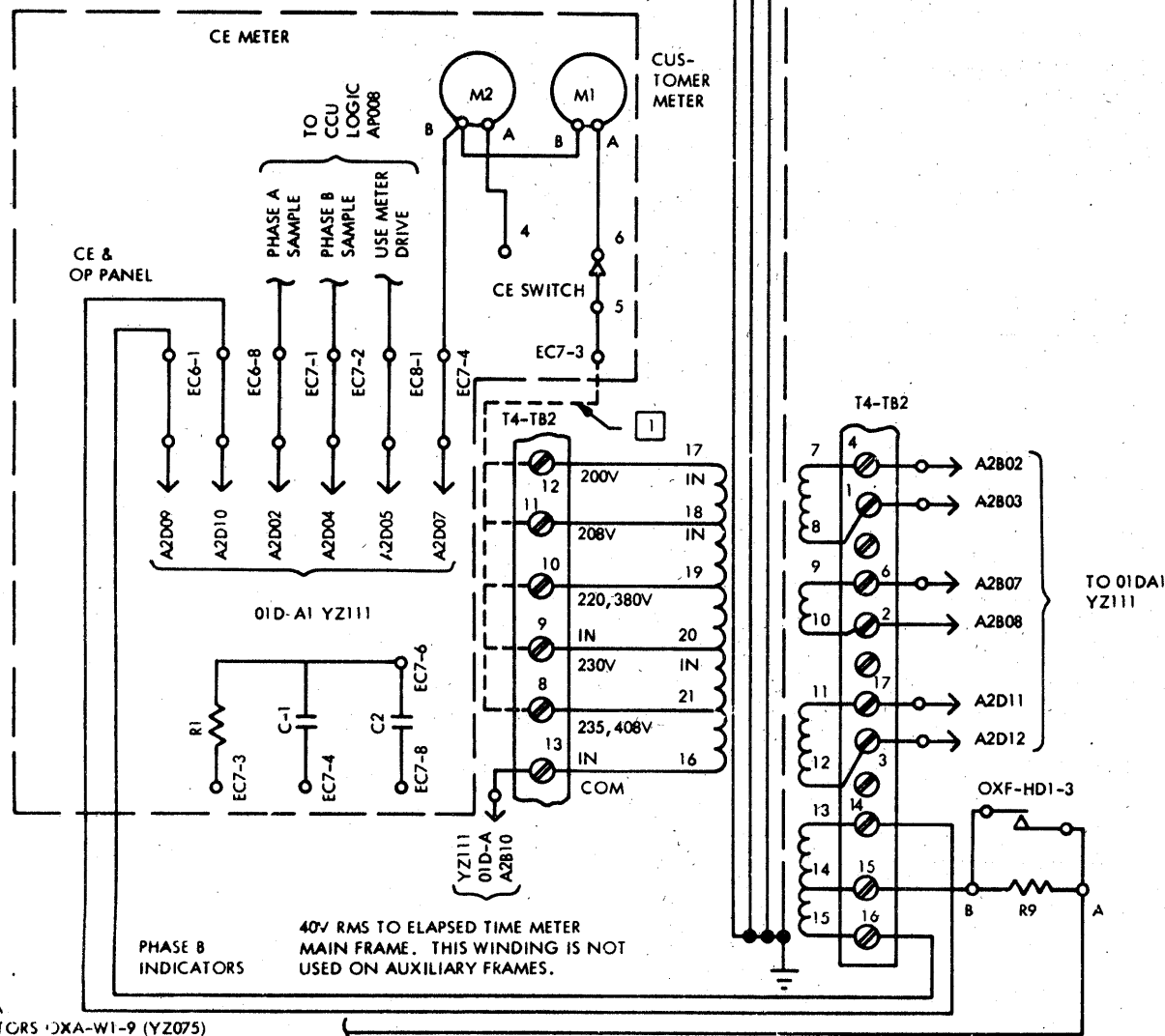
PART NO. 1750281 LOGIC PG. NO. YZ073

T4-TB1 JUMPER CHART SHEET 1 OF 2

INPUT LINE VOLTAGE	FREQUENCY (HZ)	JUMPER CONNECTIONS
200	60	1-2, 3-4, 5-6
208	60	1-2, 3-4, 5-6
230	60	1-2, 3-4, 5-6
200	50	1-2, 3-4, 5-6
220	50	1-2, 3-4, 5-6
235	50	1-2, 3-4, 5-6
380	50	1-2, 3-4, 5-6
408	50	1-3, 3-6, 7-6

NOTES

- 1 THIS LEAD TO BE CONNECTED TO PROPER TERMINAL CORRESPONDING TO INPUT VOLTAGE
- 2 FROM YZ003, YZ013, YZ023 & YZ015
- 3 THE REGEN GATE IS OPTIONAL. IT IS UNUSED AND MAY NOT BE ON YOUR MACHINE. SEE SHEET 2.



PHASE A INDICATORS OXA-W1-9 (YZ075)
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	WIRING DIAGRAM			MAY76	314419		
DESIGN	YES	MAY76	SHT 1 OF 2				
DETAIL							
CHECK	YES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	YES	MAY76				YZ073	

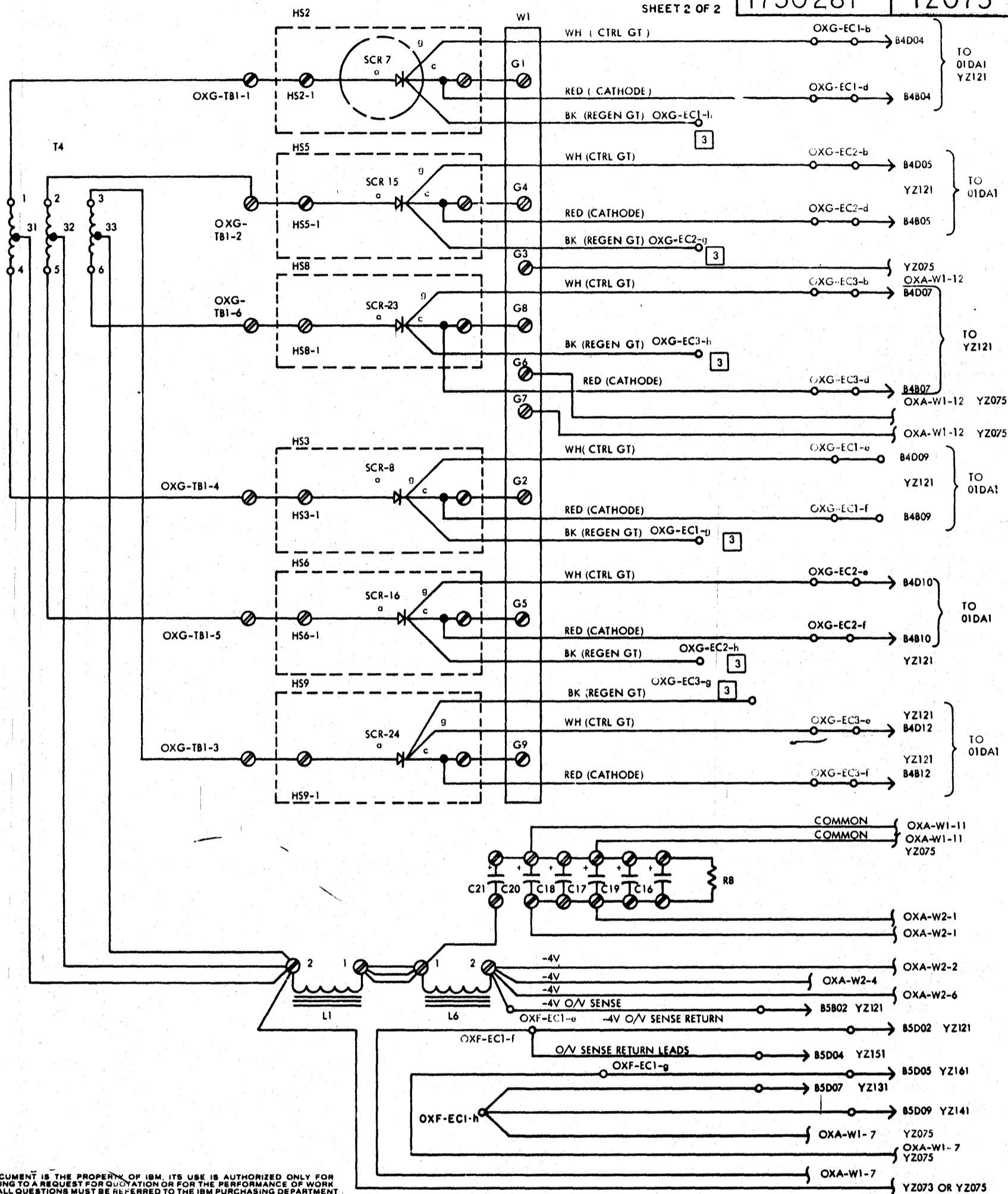
1750281
C

1750281 C

SHEET 2 OF 2

1750281

YZ073



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IBM				DATE	CHANGE NO	DATE	CHANGE NO	1750281 C
NAME				MAY/6	314419			
WIRING DIAGRAM								
3/05 II BASE FRAME								
DESIGN	TS	MAY/6	SHT 2 OF 2					
DETAIL								
CHECK	TS	MAY/6	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO		
APPRO	TS	MAY/6				YZ073		

1749720C

1749720

LOGIC PG NO
YZ075

SHEET 1 OF 2

DUPLICATE MASTER

D-C DISTRIBUTION - MAIN FRAME

NOTES

- 1 ONLY HD2-2 WIRE PRESENT IN FIELD CONVERTED UNITS
- 2 THIS WIRE NOT PRESENT IN FIELD CONVERTED UNITS
- 3 SHUNT PRESENT (BUT UNUSED) IN FIELD CONVERTED UNITS
- 4 TRANSISTOR OIB-Q1 CONTAINS ALL THE ELEMENTS SHOWN. IT IS A HIGH GAIN DARLINGTON PAIR WITH REVERSE PROTECTION VIA THE DIODE. THE TOTAL PACKAGE APPEARS THE SAME AS A CONVENTIONAL TRANSISTOR. ON FIELD CONVERTED MACHINES THE CONNECTION OF +6V SENSE TO THE OIB GATE IS VIA TBI-5 INSTEAD OF AS SHOWN

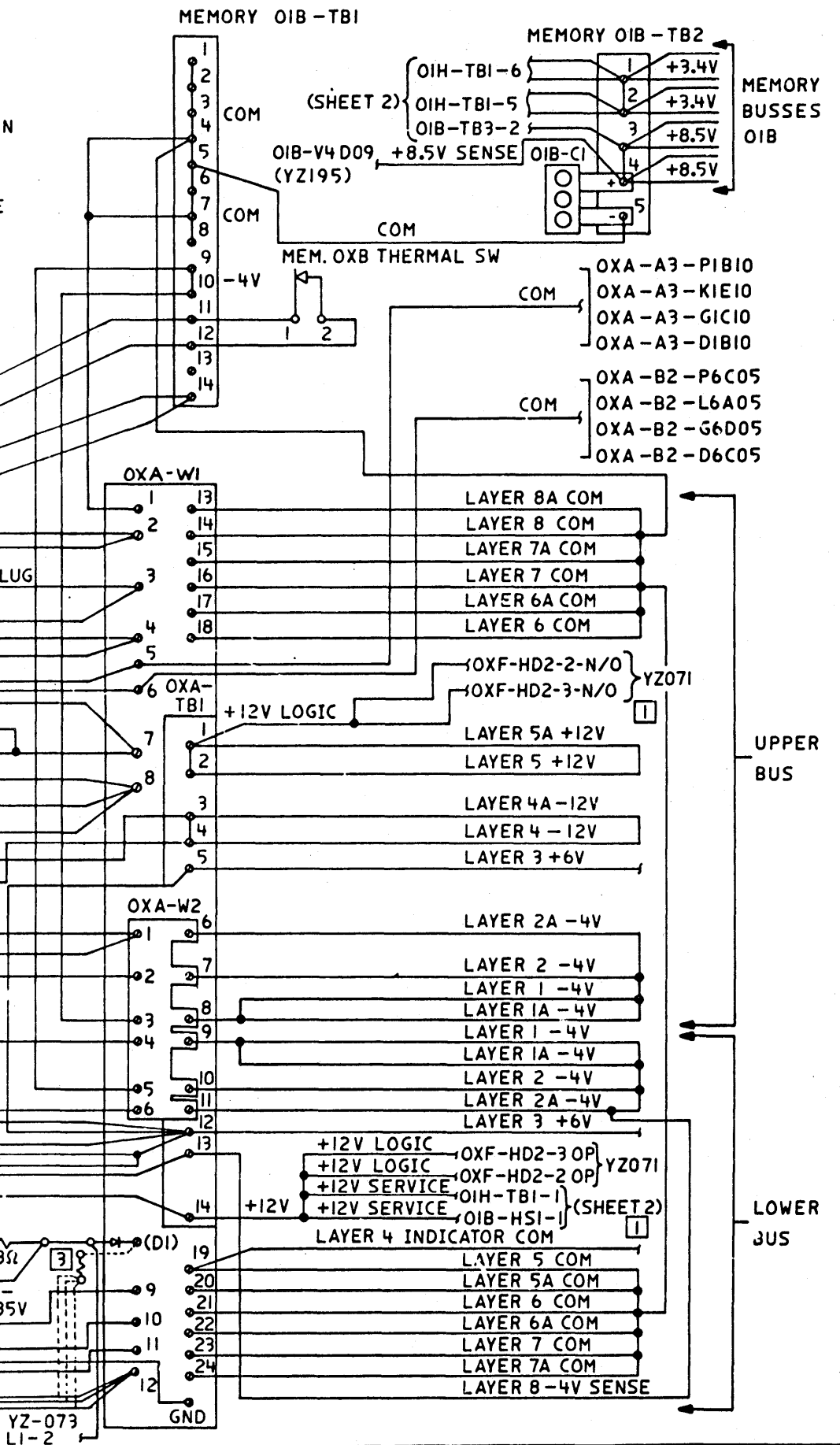
- (YZ054) GATE THERMAL SW OX-TS1
- (YZ054) OIE-PI-R
- (YZ054) HEATSINK TH SW-2
- (YZ054) OIE-PI-Q
- (SHEET 2) OIH-TBI-4

ADJACENT FRAME
(SHEET 2) OIH-TBI-3

- YZ101 OXD-AI-C4D02 +6 COM
- (YZ073) OXF-ECI-F O/V SENSE RETURN
- (YZ057) OXF-ECI-G O/V SENSE RETURN
- OXF-ECI-H O/V SENSE RETURN
- YZ101 OXD-AI-B4D02 -4V COM
- OXD-AI-A5D02 -12V COM
- OXD-AI-C5D02 +12V COM
- OXD-AI-A5B02 -12V SENSE
- OXD-AI-A5B02 -12V
- YZ071 C3 (-)
- 2 YZ071 C4 (-) -4V
- OXF C20 (-) YZ073 -4V
- OXF C17 (-) YZ073 -4V
- OXF L6-2 YZ073 -4V

- OXF L6-2 YZ073 -4V
- (YZ101) OXD-AI-B5B12 +6 SENSE
- OXD-AI-C4B02 +6 SENSE
- L6-2 YZ073 -4V
- (YZ071) OXF-HDI-1 N/O +6V
- OXF-HDI-2 N/O +6V
- (YZ101) OXD-AI-B4B02 -4V SENSE
- YZ071 C4 (+) +12V
- YZ101 +12 SENSE
- OXD-AI-C5B02 +12 SENSE

- YZ073 OXG-WI-G3
- OXG-WI-G6
- OXG-WI-G7
- YZ073 OXF-R9-A
- C5 (-) COMMON
- C20 (+) COMMON
- C17 (+) COMMON



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IBM				DATE	CHANGE NO	DATE	CHANGE NO	
NAME	D-C DISTRIBUTION			RED	JAN 76	312922	FEB 77	313974
	MAIN FRAME (3705-E,F,G,H)				JUN 76	314419	JUN 77	313977
DESIGN	TES	DEC 75	SHT 1 OF 2		AUG 76	315608		
DETAIL	TS	AUG 76			NOV 76	315621		
CHECK	TES	DEC 75	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO		LOGIC PG NO
APPRO	TES	DEC 75	TES DEC 75					YZ075

1749720C

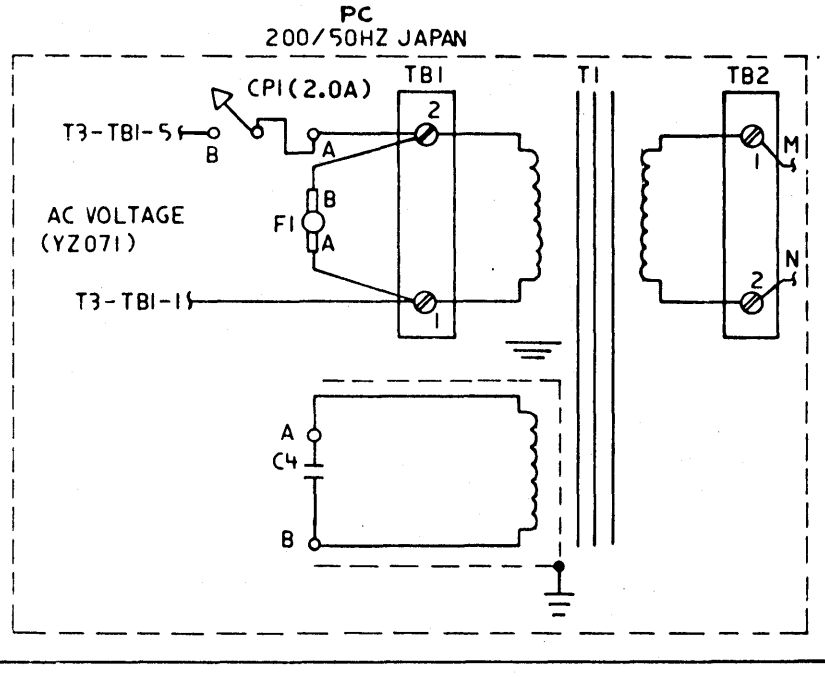
1749720 C

PART NO 1749720

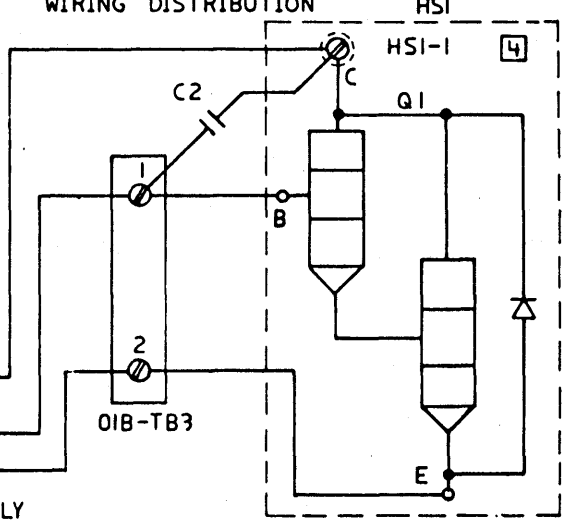
LOGIC PG NO YZ075

SHEET 2 OF 2

DUPLICATE MASTER



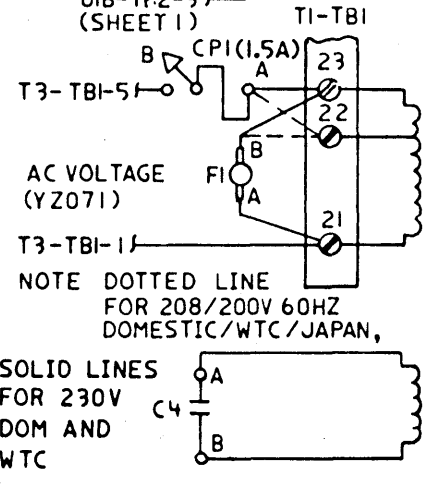
OIB(+8.5V POWER SUPPLY)
MAIN FRAME ONLY
WIRING DISTRIBUTION



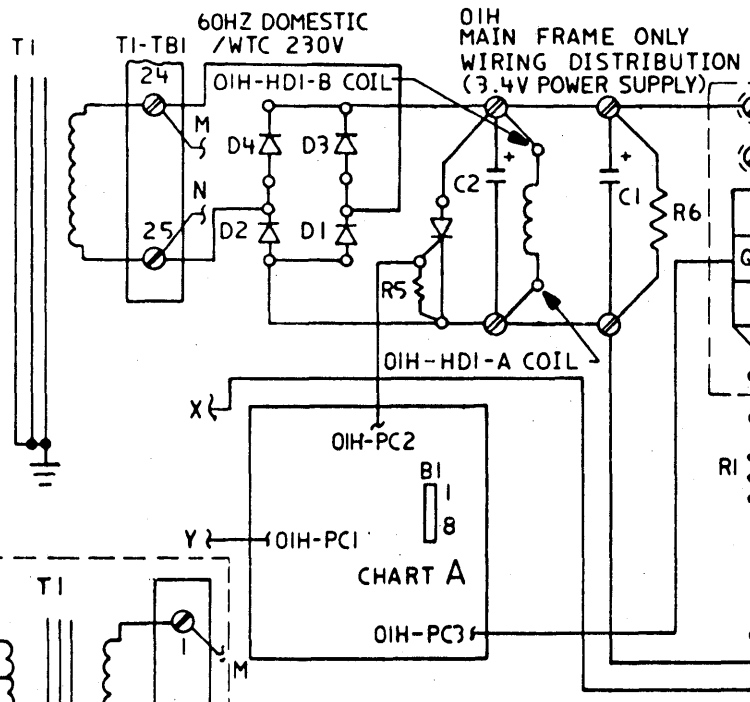
(SHEET 1)
OIA-TBI-14

OIB-AI V4B13
YZ195

OIB-TF-2-3
(SHEET 1)



NOTE DOTTED LINE
FOR 208/200V 60HZ
DOMESTIC/WTC/JAPAN,
SOLID LINES
FOR 230V
DOM AND
WTC

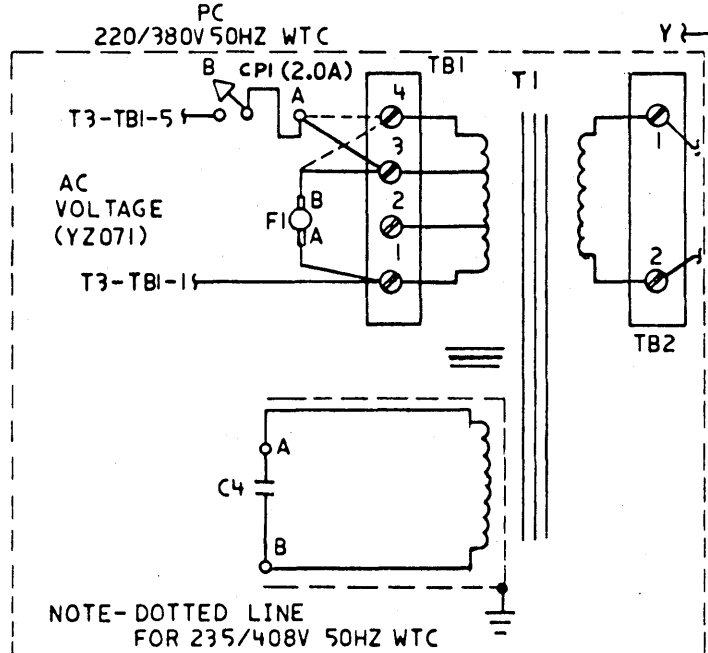


OIH MAIN FRAME ONLY
WIRING DISTRIBUTION
(3.4V POWER SUPPLY)

OIH-HSI

TBI

- (SHEET 1) OXA-TBI-14
- (SHEET 1)
- (SHEET 1) OIA-WI-4
- (SHEET 1) OIA-WI-2
- (SHEET 1) OIB-TB2-2
- (SHEET 1) OIB-TB2-1



NOTE- DOTTED LINE
FOR 235/408V 50HZ WTC

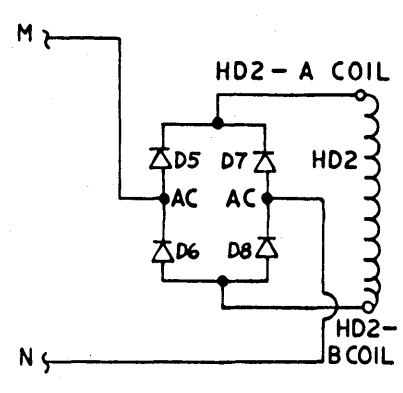
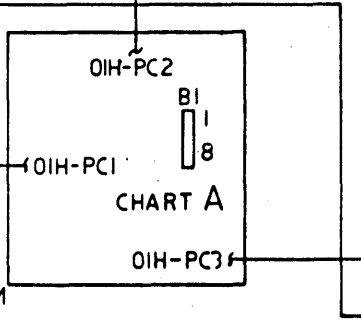


CHART A

BI		
FROM	TO	
OIH-BI-1	OIH-TBI-4	HDI-70P
-2		HDI-4 N/O
-3	OIB-AI V4D13	
-4	OIB-AI V4D11	HD2-70P
-5	OIH-TBI 5	
-6	OIH GND	HD2-4 N/O
-7	OIB-AI V4D10	
-8		HDI-6 N/O

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME D-C DISTRIBUTION				JAN 76	312922	FEB 77	313974
MAIN FRAME (3705-E,F,G,H,)				JUN 76	314419	JUN 77	313977
DESIGN	TES	DEC 75	SHT 2 OF 2	AUG 76	315608		
DETAIL	TS	AUG 76		NOV 76	315621		
CHECK	TES	DEC 75		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TES	DEC 75	TES	DEC 75		LOGIC PG NO	
						YZ075	

1749720 C

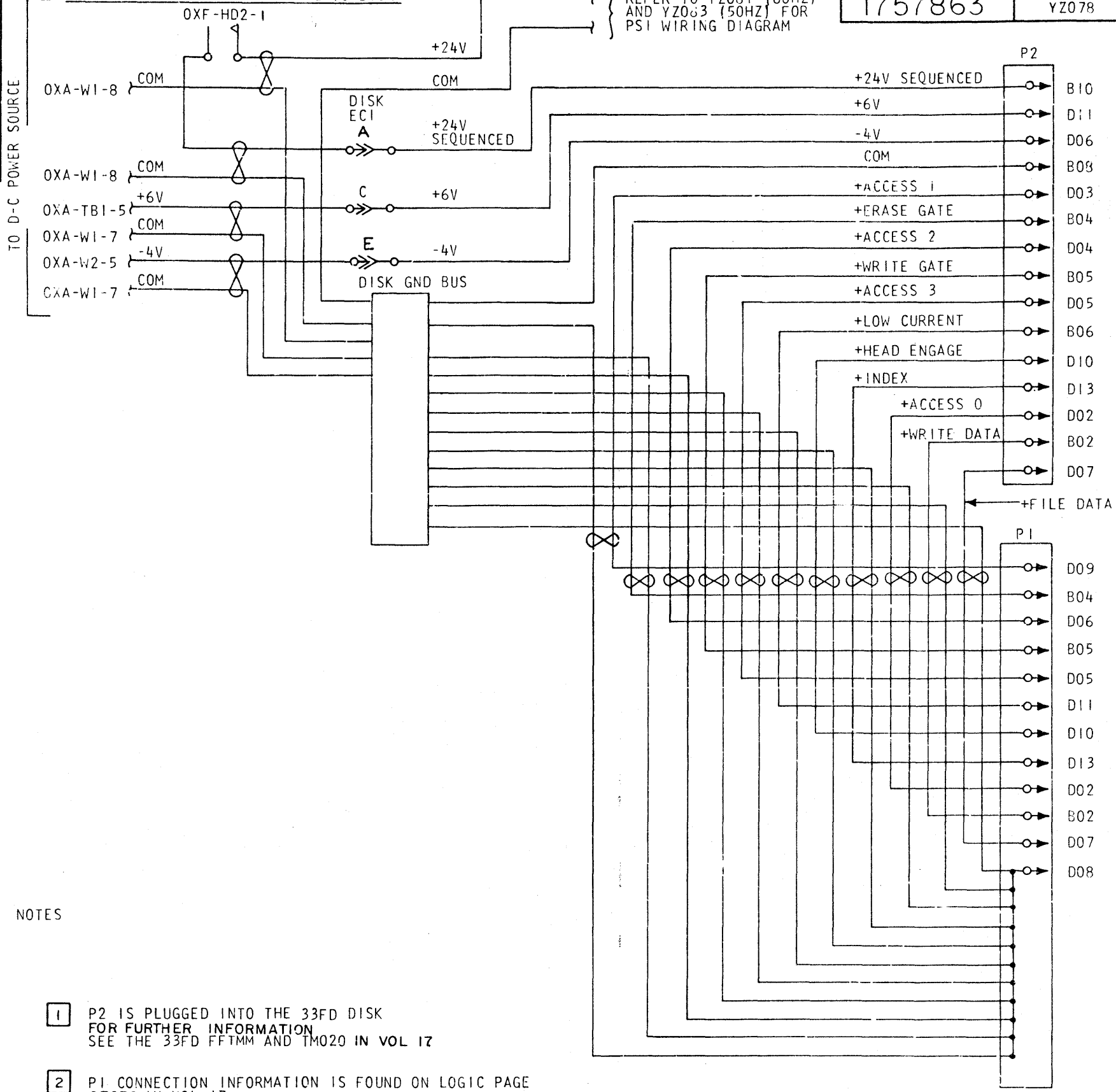
1757863

D-C POWER AND SIGNAL WIRING TO DISK

1757863

YZ078

REFER TO YZ081 (60HZ) AND YZ083 (50HZ) FOR PSI WIRING DIAGRAM



NOTE 1

NOTE 2

NOTES

- 1 P2 IS PLUGGED INTO THE 33FD DISK FOR FURTHER INFORMATION SEE THE 33FD FFTMM AND TM020 IN VOL 17
- 2 P1 CONNECTION INFORMATION IS FOUND ON LOGIC PAGE GE030 IN VOL. 17

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				AUG 76	315058		
D-C POWER AND SIGNAL WIRING TO DISK							
DESIGN	DD	AUG 76	SHT OF				
DETAIL							
CHECK	WJK	AUG 76	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO						YZ078	

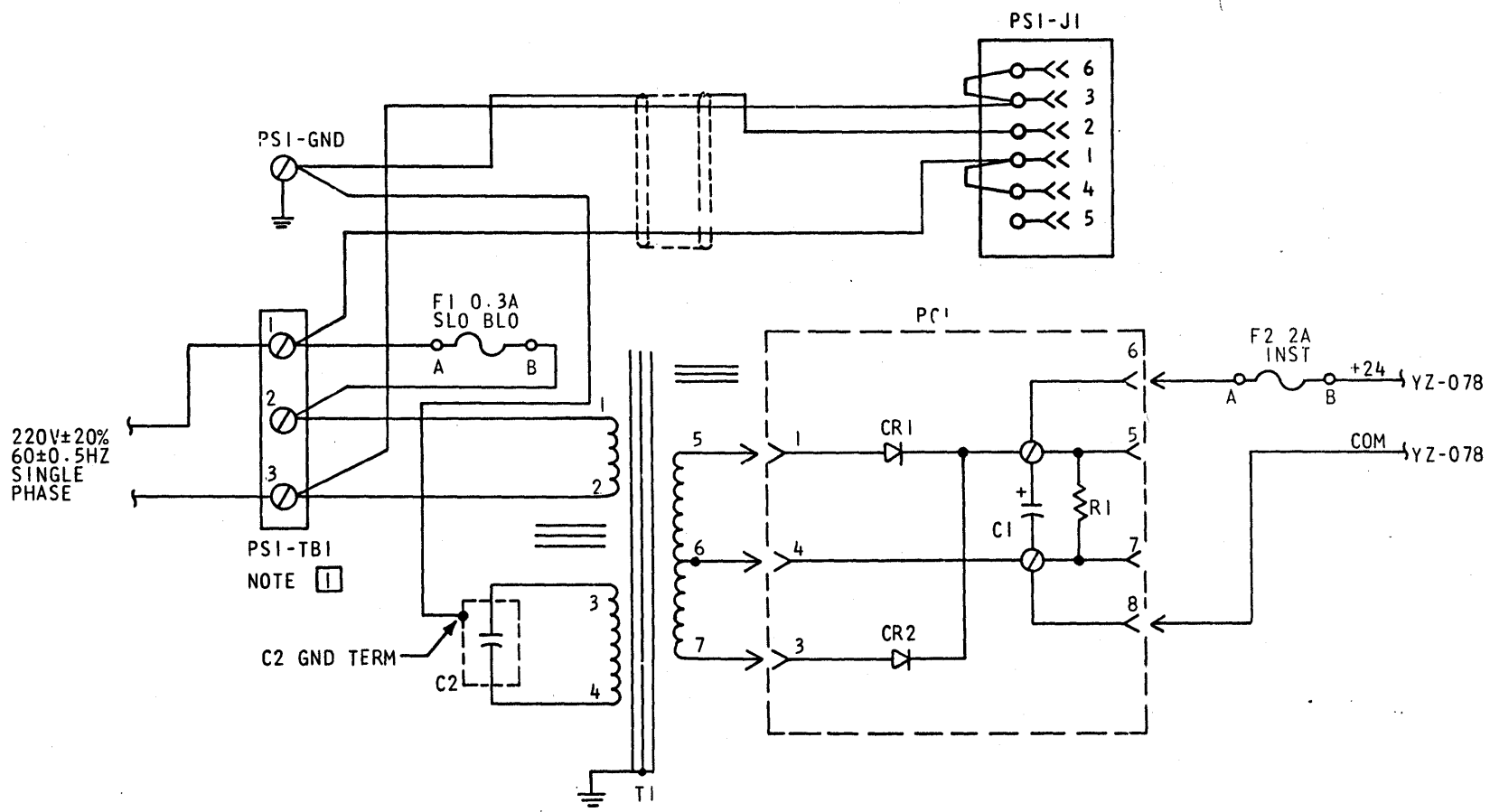
1757863

C

C
1770745

PART NO. 1770745 LOGIC PG. NO. YZ081

PSI WIRING DIAGRAM 60HZ



NOTES [1] PSI-TB1 IS PART OF TRANSFORMER ASM (T1)

COMPONENT CHART

C1	5214366	CAPACITOR, 24000UF, 30V D-C
C2	5252837	CAPACITOR, 1.5 UF, 660V A-C
CR1, CR2	1149212	RECTIFIER, 3A
F1	78998	FUSE, 0.3A SLO BLO
F2	255231	FUSE, 2A INST
J1	725557	CONNECTOR, 3 POSITION
PC1	1851948	P C BOARD ASM
R1	303653	RESISTOR, 200Ω±5%, 10W
T1	1770779	FERRO ASM, 60 HZ, 24 VA

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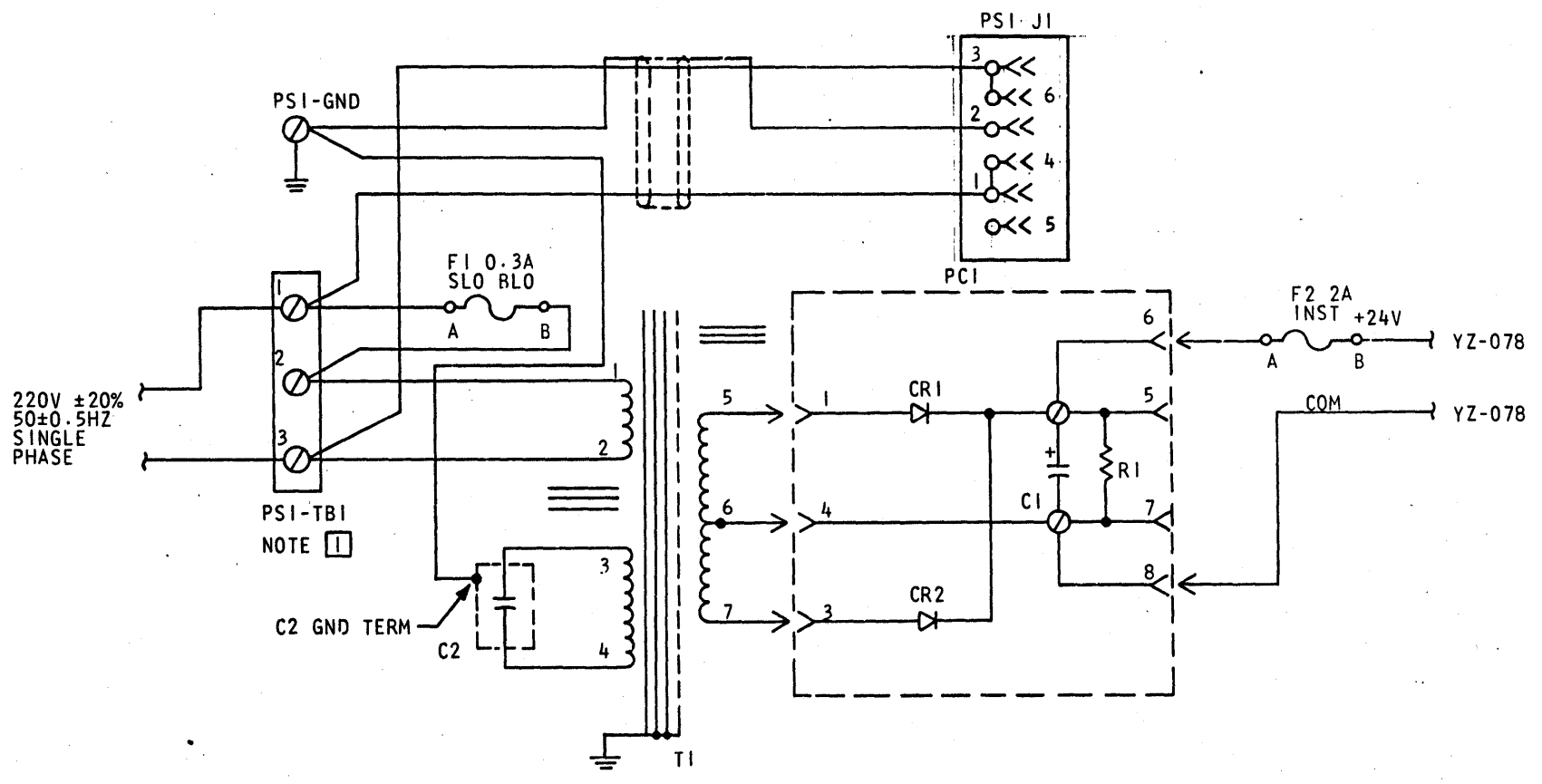
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	PSI WIRING DIAGRAM 60HZ			FEB73	309916		
				APR73	311051		
DESIGN	CD	OCT72	SHT OF	JUL77	316710		
DETAIL	VR	OCT72					
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO						LOGIC PG NO	
						YZ081	

C
1770747

PAGE NO
1770747

LOGIC PG NO
YZ083

PSI WIRING DIAGRAM 50HZ



NOTES 1. PSI-TBI IS PART OF TRANSFORMER ASM (T1)

COMPONENT CHART

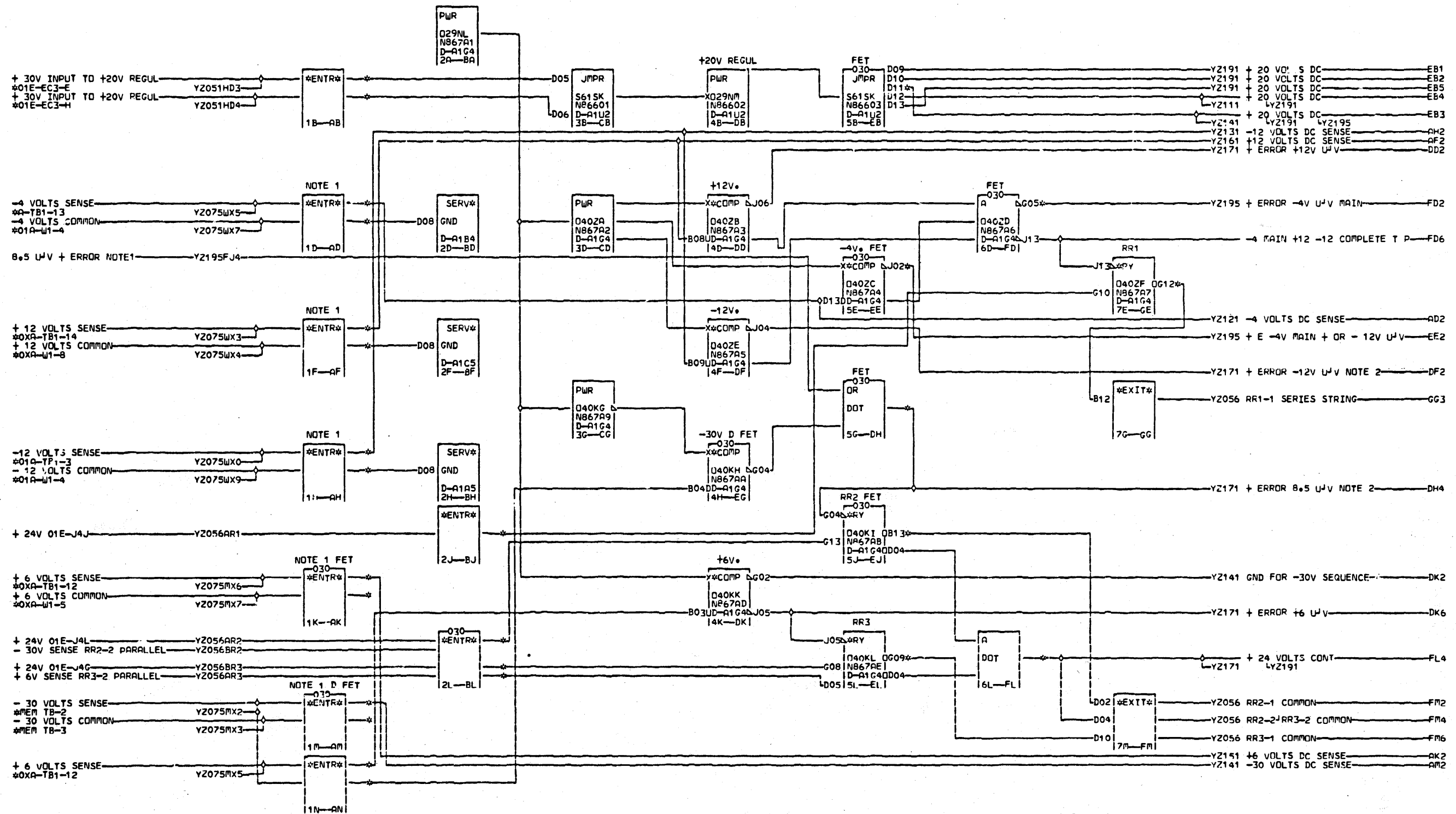
C1	5214366	CAPACITOR, 24000UF, 30V D-C
C2	5252850	CAPACITOR, 2.0UF, 660V A-C
CR1, CR2	1149212	RECTIFIER, 3A
F1	78998	FUSE, 0.3A SLO BLO
F2	855231	FUSE, 2A INST
J1	725557	CONNECTOR, 3 POSITION
PCI	1851948	PC BOARD ASM
R1	303653	RESISTOR, 200Ω±5% 10W
T1	1770778	FERRO ASM, 50HZ, 24VA

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	PSI WIRING DIAGRAM 50 HZ			FEB73	309916		
				APR73	311051		
DESIGN	CD	OCT72	SHT OF	JUL77	316710		
DETAIL	VR	OCT72					
CHECK			CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO							YZ083

1770747

C



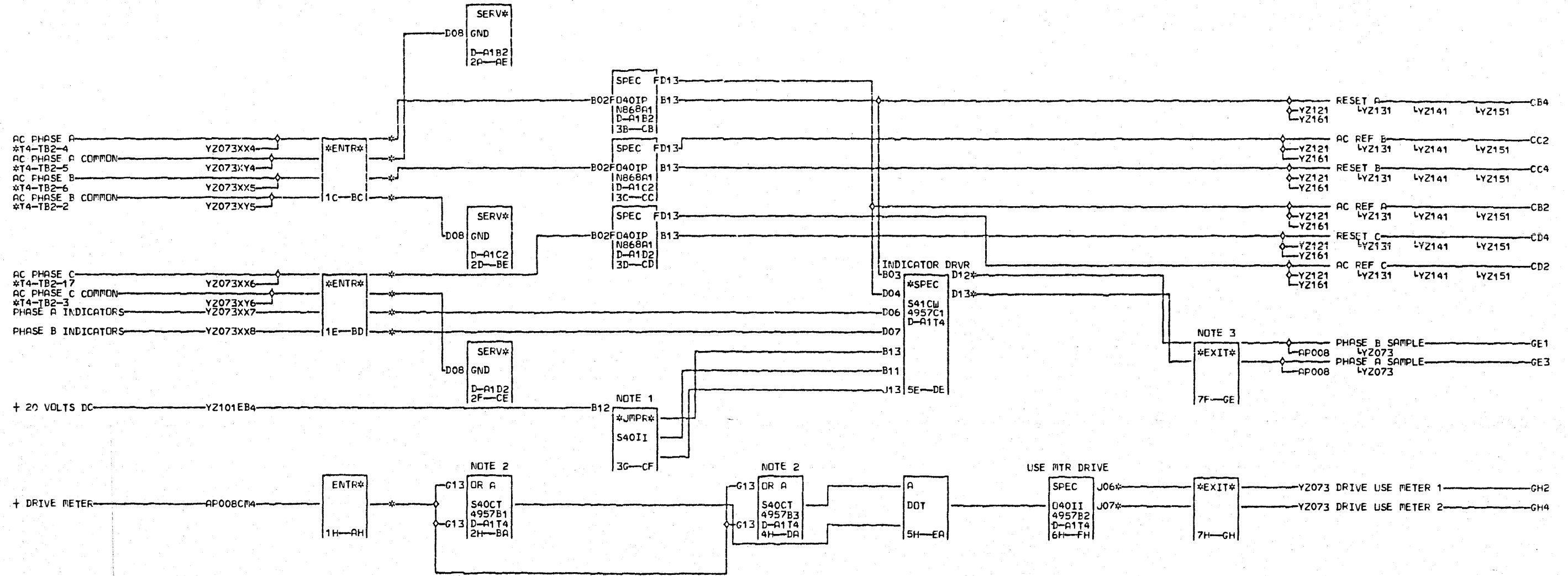
NOTE 1 THESE INPUTS ARE FROM
 #YZ075 FOR MAIN FRAME OR FROM
 #YZ077 FOR EXPANSION FRAME.
 Z ALL TWISTED PAIRS.
 1 NOTE 2 + IS 20V
 0 - IS ZERO VOLTS.

AB2	D-A1D5D12	AK4	D-A1C4D02	DH4	D-A1E5D09	01B-A1V2D10	
AR4	D-A1D5D13	AM2	D-A1A4A02	01B-A1V2D09	FL4	D-A1D5D04	
AD2	D-A1B4B02	AM4	D-A1A4A02	EB3	D-A1E5B03	GE4	D-A1D5B12
AD4	D-A1B4D02	AN2	D-A1B5B12	01B-A1V2R03			
AF2	D-A1C5B02	AN4	D-A1B5D12	EE2	D-A1E5B06		
AF4	D-A1C5D02	BJ4	D-A1D5D11	01B-A1V2B06			
AM2	D-A1A5P02	BL2	D-A1D5B13	EJ4	D-A1D5D02		
AM4	D-A1A5D02	BL5	D-A1D5D09	EL4	D-A1D5D10		
AK2	D-A1C4B02	BL6	D-A1D5D05	FD2	D-A1E5D10		

030 SIM TO PN 1770735 EC 311273

01-20-76 312922
 05-28-76 314419

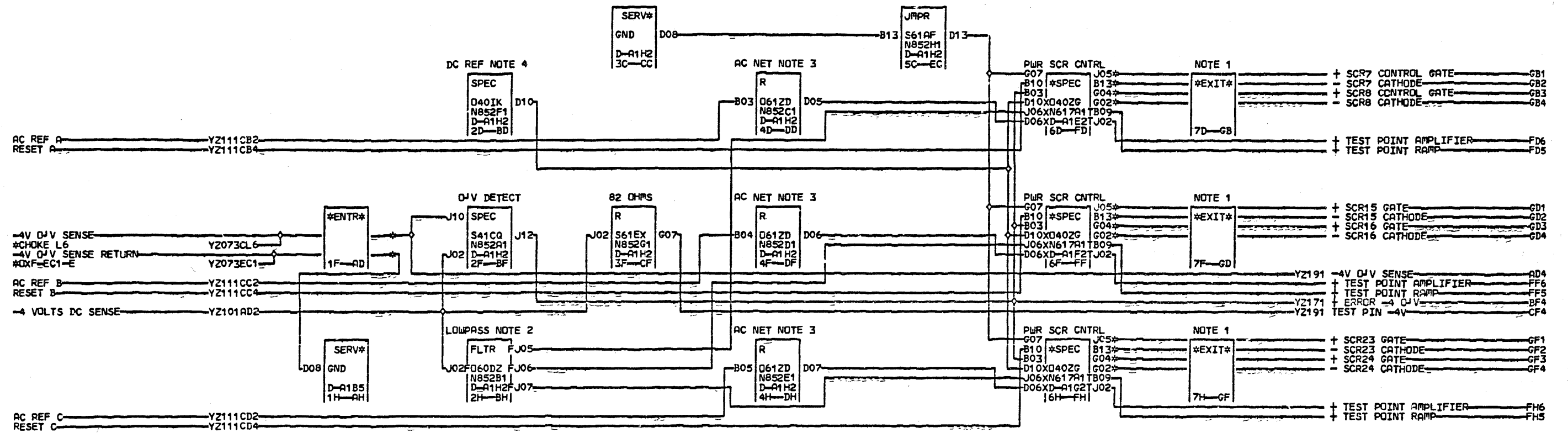
CONTROL VOLTAGE REGULATOR J			
POWER SEQUENCE J U/V DETECT.			
DATE	05-28-76	MACH.	27RNB
LOG	666	FRAME	01
			1
			0
			1
3705 II ONLY P.N. 1750113			
IBM CORP.	RA	BLK.	SA
			030



*NOTE 1 CONNECT JUMPER FROM
 B12 TO B13 FOR 50HZ 200/235 DR AH4 D-A1A2D05 DE1 D-A1A2D04
 Y B12 TO J13 FOR 50HZ 380/408 DR BC1 D-A1A2B02 DE3 D-A1A2D02
 Z *B12 TO B11 FOR 60HZ OPERATION BC3 D-A1A2B03 FH2 D-A1A2B10
 1 *YELLOW WIRE BACKPANEL BC5 D-A1A2B07 FH4 D-A1A2D07
 1 *NOTE 2 MST TO SLD LEVEL BC7 D-A1A2B08
 1 *CONVERTER MODULE BD1 D-A1A2D11
 *NOTE 3 CABLE TO CE/DPR PANEL ED3 D-A1A2D12
 SIM TO PN 1770736 EC 310268 BD5 D-A1A2D10
 BD7 D-A1A2D09

01-20-76 312922

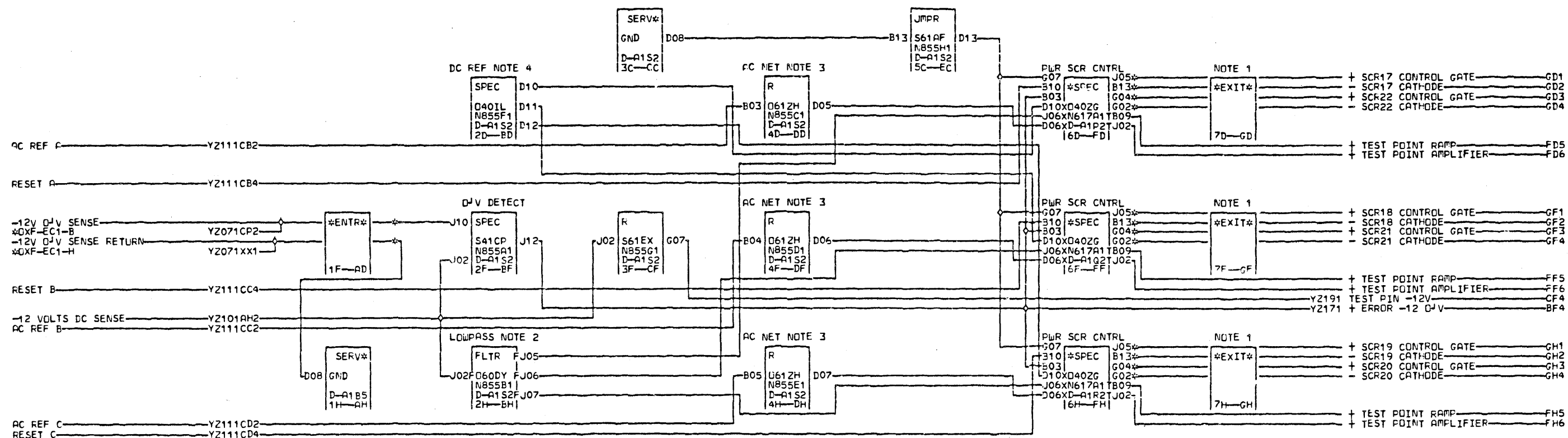
REF/RESET + CP PNL INDICATORS	Y
USE METER DRIVER	Z
DATE 01-26-76 MACH. 27RNB	1
LOG 897 FRAME 01	1
3705 II ONLY P.N. 1750114	1
IBM CCRP. RA BLK. SA	030



#NOTE 1 CABLE CONNECTS TO
 #HEAT SINK GATE 01-G ON YZ073. AD4 D-A1B5B02 FF4 D-A1B4B10
 Y #NOTE 2 OUTPUT VOLTAGE AD6 D-A1B5D02 FH1 D-A1B4D07
 Z #APPROXIMATELY 0.68 VOLTS DC. FD1 D-A1B4D04 FH2 D-A1B4B07
 1 #NOTE 3 INPUT APPROX 8VAC FD2 D-A1B4B04 FH3 D-A1B4D12
 2 #OUTPUT APPROX 110MVPK VARIES FD3 D-A1B4D09 FH4 D-A1B4B12
 1 #WITH AC LINE VOLTAGE FD4 D-A1B4B09
 #NOTE 4 OUTPUT VOLTAGE FF1 D-A1B4D05
 030#APPROXIMATELY 1.4 VOLTS DC. FF2 D-A1B4B05
 SIR TO PN 1770737 EC 318043 FF3 D-A1B4D10

01-20-76 312922
 04-14-78 318043

MINUS 4 VOLT POWER SCR		Y
CONTROLS AND 0V DETECT		Z
DATE 04-24-78 MACH. 27RNB		1
LOG	563 FRAME	01
3705 II ONLY P.N. 1750115		2
IBM CORP. RA BLK. SA		1
		030

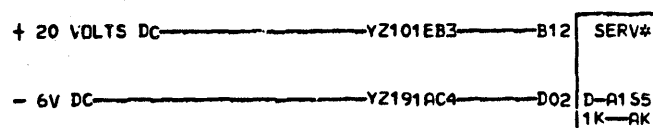
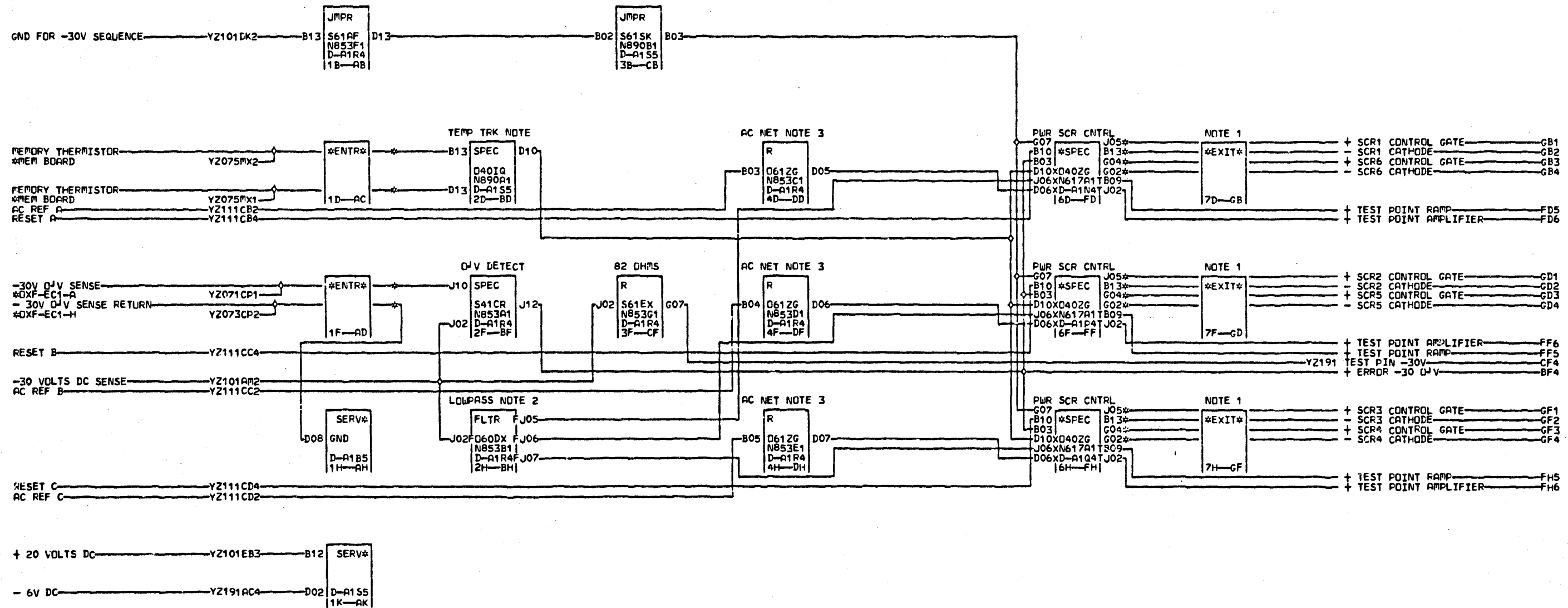


*NOTE 1 CABLE CONNECTS TO
 *HEAT SINK GATE J1-G ON Y2071
 Y *NOTE 2 OUTPUT VOLTAGE
 Z *APPROXIMATELY 1.15 VOLTS DC.
 1 *NOTE 3 INPUT APPROX BVAC
 3 *OUTPUT APPROX 340MVAK VARIES
 1 *WITH AC LINE VOLTAGE.
 *NOTE 4 OUTPUT VOLTAGE
 030*APPROXIMATELY 3.0 VOLTS DC.
 SIM TO PN 1770738 EC 311273

AD2	D-A1B5B07	FF4	D-A1A5B10
AD4	D-A1B5D07	FH1	D-A1A5D07
FD1	D-A1A5D04	FH2	D-A1A5B07
FD2	D-A1A5B04	FH3	D-A1A5D09
FD3	D-A1A5D12	FH4	D-A1A5B09
FF4	D-A1A5B12		
FF1	D-A1A5D05		
FF2	D-A1A5E05		
FF3	D-A1A5D10		

01-20-76 312922

MINUS 12 VOLT POWER SCR			
CONTROLS AND D-V DETECT			
DATE 01-26-76 MACH. 27RNB			
LOG	897	FRAME	01
			3
			1
3705 II ONLY P.N. 1750116			
IBM CORP.	RA	BLK.	SA

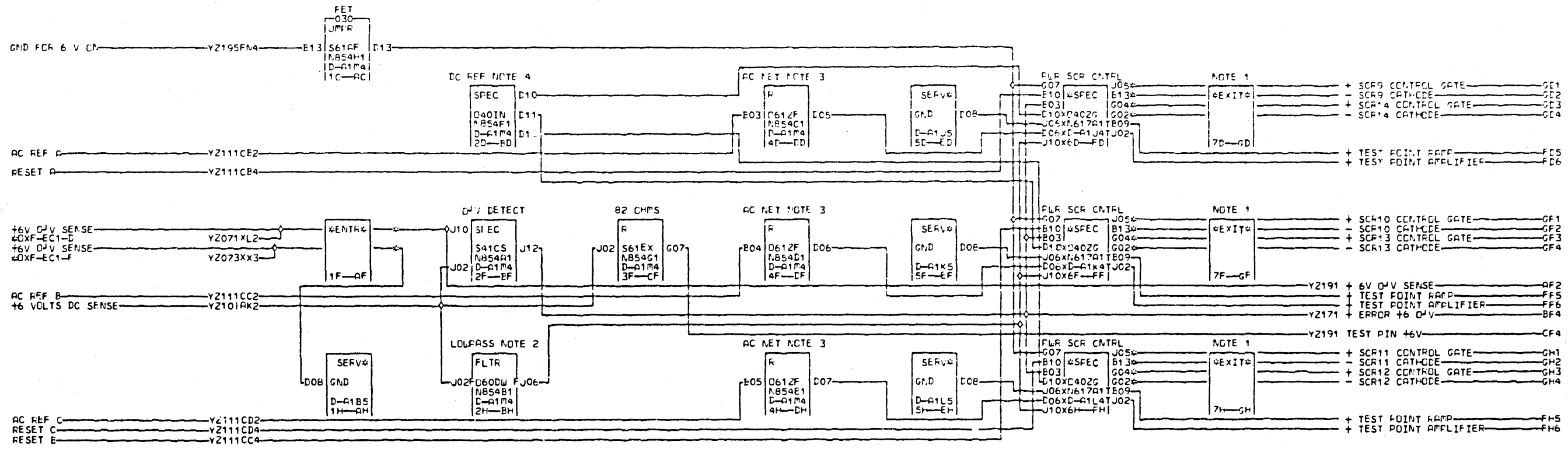


*NOTE 1 CABLE CONNECTS TO
 #HEAT SINK GATE 01-G ON YZ071
 Y #NOTE 2 OUTPUT VOLTAGE
 Z #APPROXIMATELY 0.90 VOLTS DC
 1 #NOTE 3 INPUT APPROX 8VAC
 4 #OUTPUT APPROX 350MVPK VARIES
 1 #WITH AC LINE VOLTAGE
 #NOTE 4 OUTPUT VOLTAGE
 030 #APPROXIMATELY 2.5 VOLTS DC
 SIM TO PN 1770739 EC 311273

AC2 D-A1B5B10	FF2 D-A1A4B05
AC6 D-A1B5D10	FF3 D-A1A4D10
AD2 D-A1B5B09	FF4 D-A1A4B10
AD4 D-A1B5D09	FF1 D-A1A4B07
FD1 D-A1A4D04	FF2 D-A1A4B07
FD2 D-A1A4B04	FF3 D-A1A4D09
FD3 D-A1A4D12	FF4 D-A1A4B09
FD4 D-A1A4B12	
FF1 D-A1A4D05	

01-23-76 312922

-30 VOLT CARDS REMOVED FOR FET		
DATE	01-26-76	MACH# 27RNB
LOG	936	FRAME 01
		3705 II ONLY P.N. 1750117
IBM CORP.	RA	BLK. SA

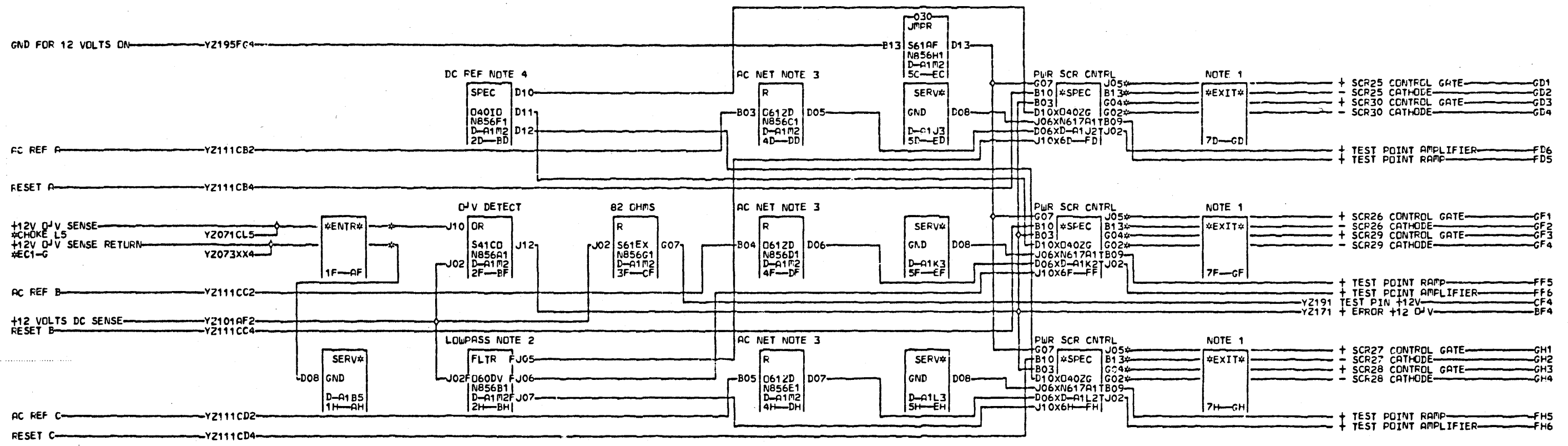


#NOTE 1 CABLE CONNECTS TO
 #HEAT SINK GATE 01-G ON Y2071
 Y #NOTE 2 OUTPUT VOLTAGE
 Z #APPROXIMATELY 3.5 VOLTS DC.
 1 #NOTE 3 INPUT APPROX 8VAC
 5 #OUTPUT APPROX 50MVPK VARIES
 1 #WITH AC LINE VOLTAGE.
 #NOTE 4 OUTPUT VOLTAGE
 030#APPROXIMATELY 1.75 VOLTS DC
 SIM TO PN 1770740 EC 311273

AF2 D-A1B5B04	FF4 D-A1C4B10
AF4 D-A1B5D04	FH1 D-A1C4D07
FD1 D-A1C4D04	FH2 D-A1C4B07
FD2 D-A1C4B04	FH3 D-A1C4D09
FD3 D-A1C4D12	FH4 D-A1C4B09
FD4 D-A1C4B12	
FF1 D-A1C4D05	
FF2 D-A1C4B05	
FF3 D-A1C4D10	

01-20-76 312922

PLUS 6 VOLT POWER SCR CONTROLS AND D/V DETECT			
DATE	01-26-76	FRAM#	27RNB
LCG	897	FRAME	01
			5
			1
			030
18" COP.	BLK.	SA	



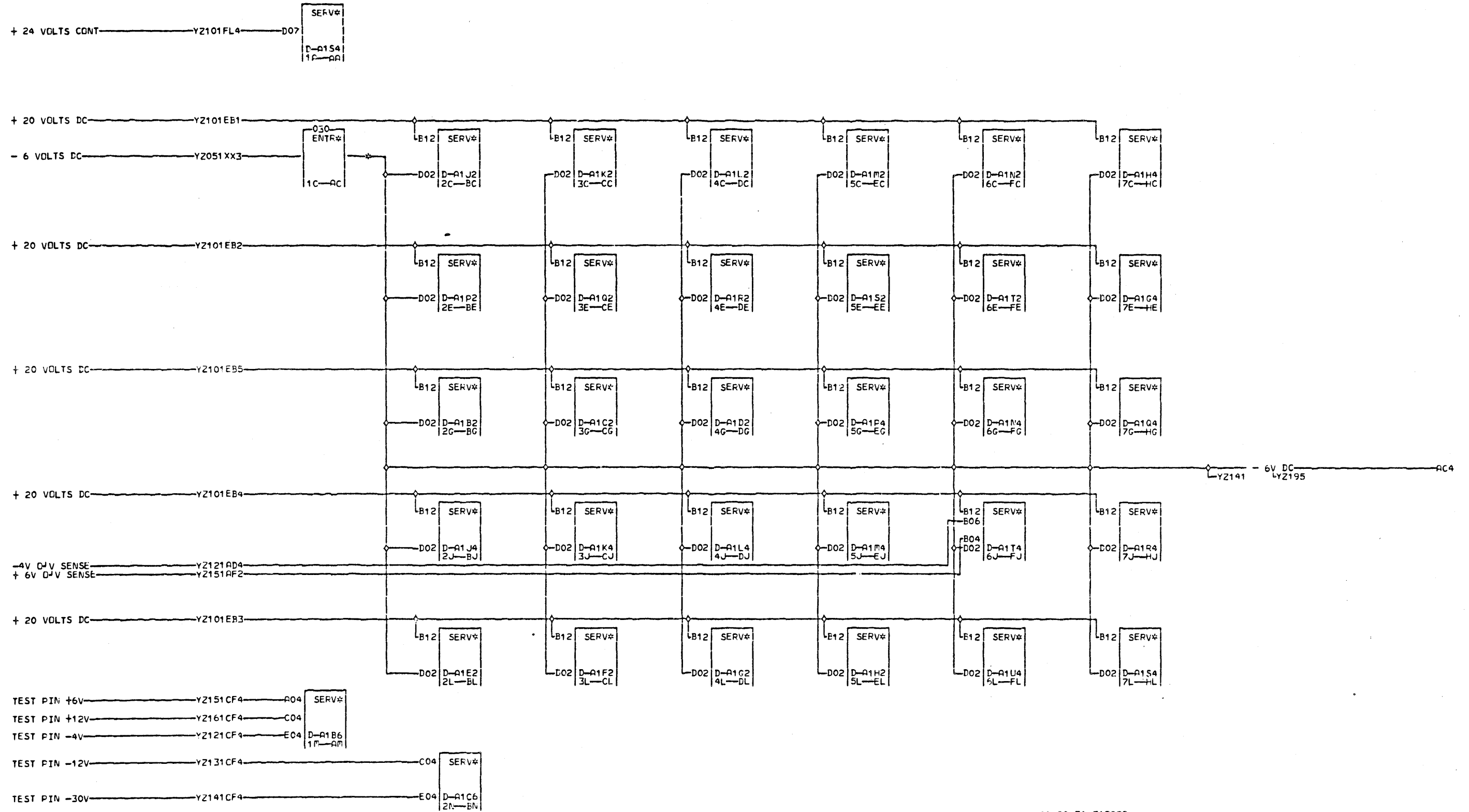
#NOTE 1 CABLE CONNECTS TO
 #HEAT SINK GATE 01-G ON Y2071
 Y #NOTE 2 OUTPUT VOLTAGE
 Z #APPROXIMATELY 4.0VOLTS DC.
 1 #NOTE 3 INPUT APPROX BVAC
 6 #OUTPUT APPROX 100MVPK VARIES
 1 #WITH AC LINE VOLTAGE.
 #NOTE 4 OUTPUT VOLTAGE
 030#APPROXIMATELY 2.1 VOLTS DC
 SIM TO PN 1770741 EC 311273

AF2 D-A1B5B05	FF4 D-A1C5B10
AF4 D-A1B5D05	FH1 D-A1C5D07
FD1 D-A1C5D04	FH2 D-A1C5B07
FD2 D-A1C5B04	FH3 D-A1C5D09
FD3 D-A1C5D12	FH4 D-A1C5B09
FD4 D-A1C5B12	
FF1 D-A1C5D05	
FF2 D-A1C5B05	
FF3 D-A1C5D10	

01-21-76 312922

PLUS 12 VOLT POWER SCR			
CONTROLS AND OVER VOLT DETECT			
DATE	01-26-76	MACH	27RNB
LOG	913	FRAME	01
3705 II ONLY P.N.		1750119	
IBM CORP.	RA	BLK.	SA

Y
Z
1
6
1
030



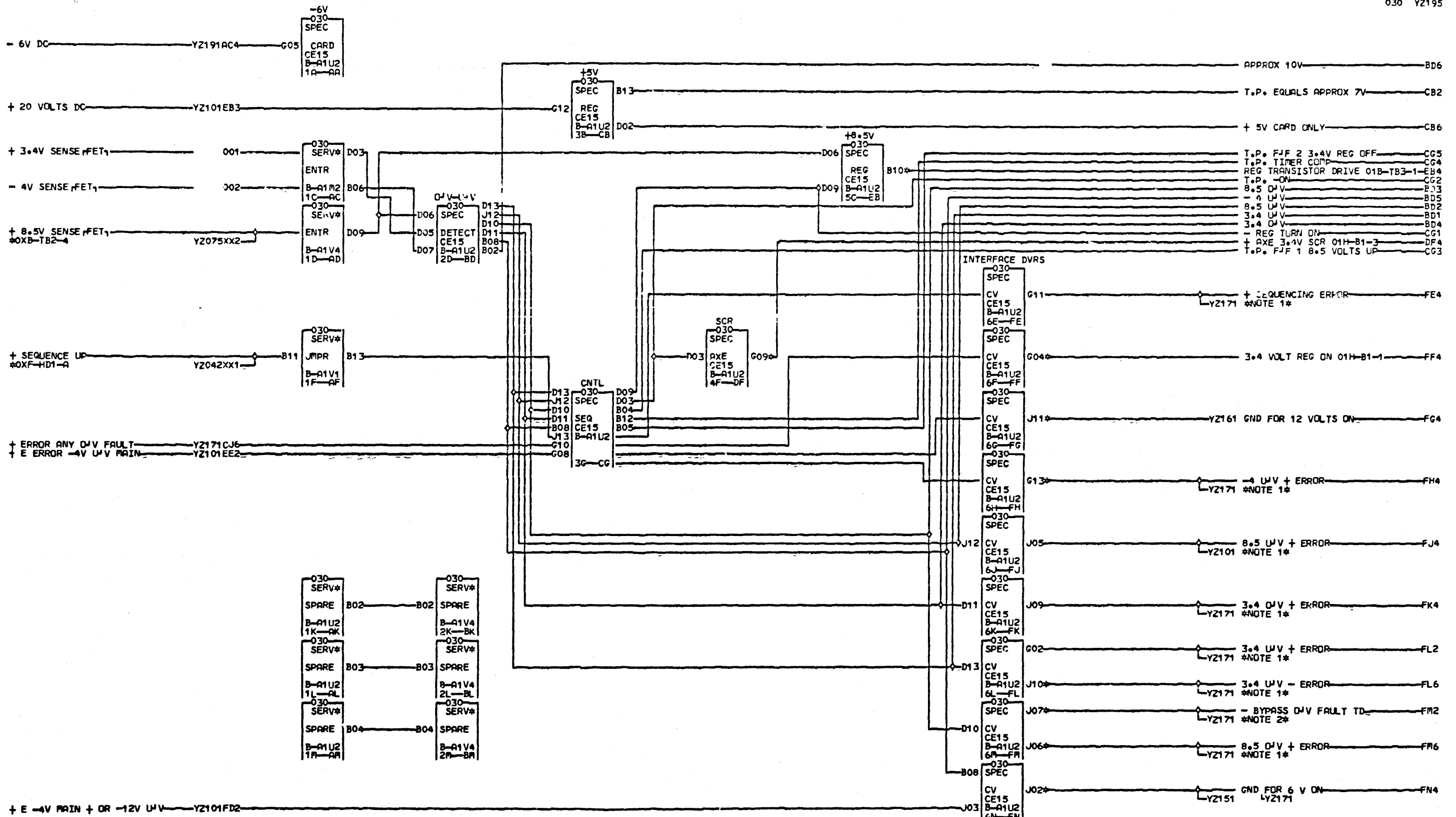
NOTE 1 MEASUREMENTS ON THESE PINS TO BE MADE WITH COMMON *CN PIN B6E02 OR ANY NEARBY *C08 GROUND PIN.

AC4 D-A1D5B03
 01D-A1E5B07
 01E-A1V2B07
 01B-A1V4D10

030
 SIM TO PN 1770743 EC 309548

01-20-76 312922

DC VOLTAGE DISTRIBUTION			
DATE	01-26-76	FRAC#	27RNB
LOG	897	FRAME	01
	3705 II ONLY	P.N.	1750121
IBM CORP.	RA	BLK.	SA



+ E -4V MAIN + OR -12V U/V YZ101FD2

NOTE 1:
 + IS 10 TO 20 V
 - IS 0V
 2 NOTE 2:
 1 THIS SIGNAL WILL BE APPROX
 9 +0.4 FOR NORMAL OR 8.5 U/V
 5 CONDITION AND +10 TO 20V
 FOR 12V 4V OR 6V U/V
 030CONDITION

DF4 B-A1V4D13	FM2 B-A1V2D06
EB4 B-A1V4B13	01D-A1E5D06
FF4 B-A1V4D11	FM6 B-A1V2D07
FG4 B-A1V2D03	01D-A1E5D07
01D-A1E5D03	FN4 B-A1V2B09
FH4 B-A1V2B02	01D-A1E5B09
01D-A1E5B02	
FL6 B-A1V2D04	
01D-A1E5D04	

01-21-76 312922
 05-28-76 314419
 11-30-76 315621
 02-28-77 316665
 04-14-78 318043

FET PWR CARD		
DATE	04-24-78	MACH. 27RNB
LOG	564	FRAME 01
	3705 II ONLY	P.N. 1750122
IBM CORP.	BLK.	SA

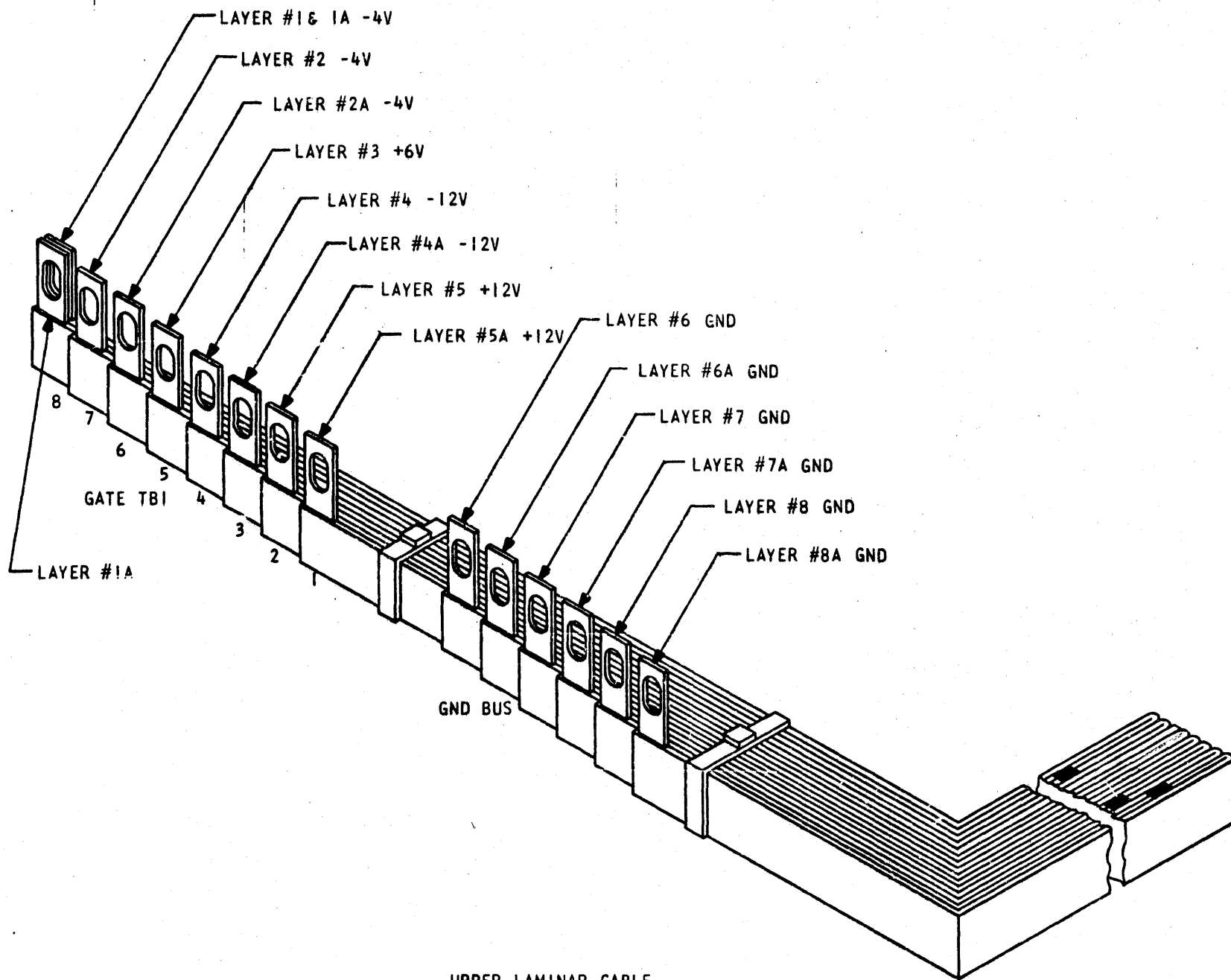
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PART NO
5998397

LOGIC PG NO
YZ201

SHEET 1 OF 4



UPPER LAMINAR CABLE
BASIC AND EXPANSION FRAMES

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE BASIC			SEP71	309504		
	FRAME UPPER			DEC71	309506		
DESIGN	NH	SEP71	SHT 1 OF 4	NCV76	315621		
DETAIL	VR	SEP71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	RS	SEP71					YZ201

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PART NO
5998397LOGIC PG NO
YZ201

LAMINAR PLUG CHART

SHEET 2 OF 4

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
1	1	1	A2	D1 B13	-4	WHITE	5182920
		1		D1 C10			
6	2	2	A2	D1 B10	GND	BLACK	5182916
		2		D1 C13			
2A	3	3	A1	D6 B05	-4	WHITE	5182920
		3		D6 C02			
8A	4	4	A1	D6 B02	GND	BLACK	5182916
		4		D6 C05			
1	5	5	A2	G1 C13	-4	WHITE	5182920
		5		G1 D10			
6	6	6	A2	G1 C10	GND	BLACK	5182916
		6		G1 D13			
2A	7	7	A1	G6 C05	-4	WHITE	5182920
		7		G6 D02			
8A	8	8	A1	G6 C02	GND	BLACK	5182916
		8		G6 D05			
1	9	9	A2	K1 E13	-4	WHITE	5182920
		9		L1 A10			
6	10	10	A2	K1 E10	GND	BLACK	5182916
		10		L1 A13			
2A	11	11	A1	K6 E05	-4	WHITE	5182920
		11		L6 A02			
8A	12	12	A1	K6 E02	GND	BLACK	5182916
		12		L6 A05			
3	13	13	A1	L6 D04	+6	ORANGE	5182917
		13	A2	L1 D11			
5	14	14	A2	M1 B11	+12	GRAY	5182919
		14		M1 C11			
5A	15	15	A1	M6 B04	+12	GRAY	5182919
		15		M6 C04			
4	16	16	A2	N1 C11	-12	VIOLET	5182918
		16		N1 E11			
5	17	17	A2	M1 D11	+12	GRAY	5182919
		17		N1 A11			
5A	18	18	A1	M6 E04	+12	GRAY	5182919
		18		N6 A04			
8A	19	19	A1	P6 B02	GND	BLACK	5182916
		19		P6 C05			
1	20	20	A2	P1 B13	-4	WHITE	5182920
		20		P1 C10			
4A	21	21	A1	N6 E04	-12	VIOLET	5182918
		21		N6 D04			
2A	22	22	A1	P6 B05	-4	WHITE	5182920
		22		P6 C02			
6	23	23	A2	P1 B10	GND	BLACK	5182916
		23		P1 C13			
1	24	24	A2	S1 C13	-4	WHITE	5182920
		24		S1 D10			

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504		
	BASIC FRAME UPPER			DEC71	309506		
DESIGN	NH	SEP71	SHT 2 OF 4	NOV76	315621		
DETAIL	VR	SEP71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO	
						YZ201	

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PART NO
5998397

LOGIC PG NO
YZ201

LAMINAR PLUG CHART

SHEET 4 OF 4

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
2	49	49	B1	P6 B05	-4	WHITE	5182920
		49		P6 C02			
6A	50	50	B2	P1 B10	GND	BLACK	5182916
		50		P1 C13			
1A	51	51	B2	S1 C13	-4	WHITE	5182920
		51		S1 D10			
6A	52	52	B2	S1 C10	GND	BLACK	5182916
		52		S1 D13			
2	53	53	B1	S6 C05	-4	WHITE	5182920
		53		S6 D02			
8	54	54	B1	S6 C02	GND	BLACK	5182916
		54		S6 D05			
3	55	55	A1	L6 D02	+6	ORANGE	5182917
		55	A2	L1 D13			
3	56	56	B1	L6 D02	+6	ORANGE	5182917
3	56	56	B2	L1 C13	+6	ORANGE	5182917

NOTES:

- 1 NOT USED FOR CS-3 FEATURE
- 2 FOR CA4 FEATURE WIRE NO. 56 TERMINATES AT PIN LOCATION O1A-B1Q2B11
- 3 NOT USED FOR RPL FEATURE

2 3
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504		
	BASIC FRAME UPPER			DEC71	309506		
DESIGN	NH	SEP71	SHT 4 OF 4	NOV76	315621		
DETAIL	VR	SEP71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO	
						YZ201	

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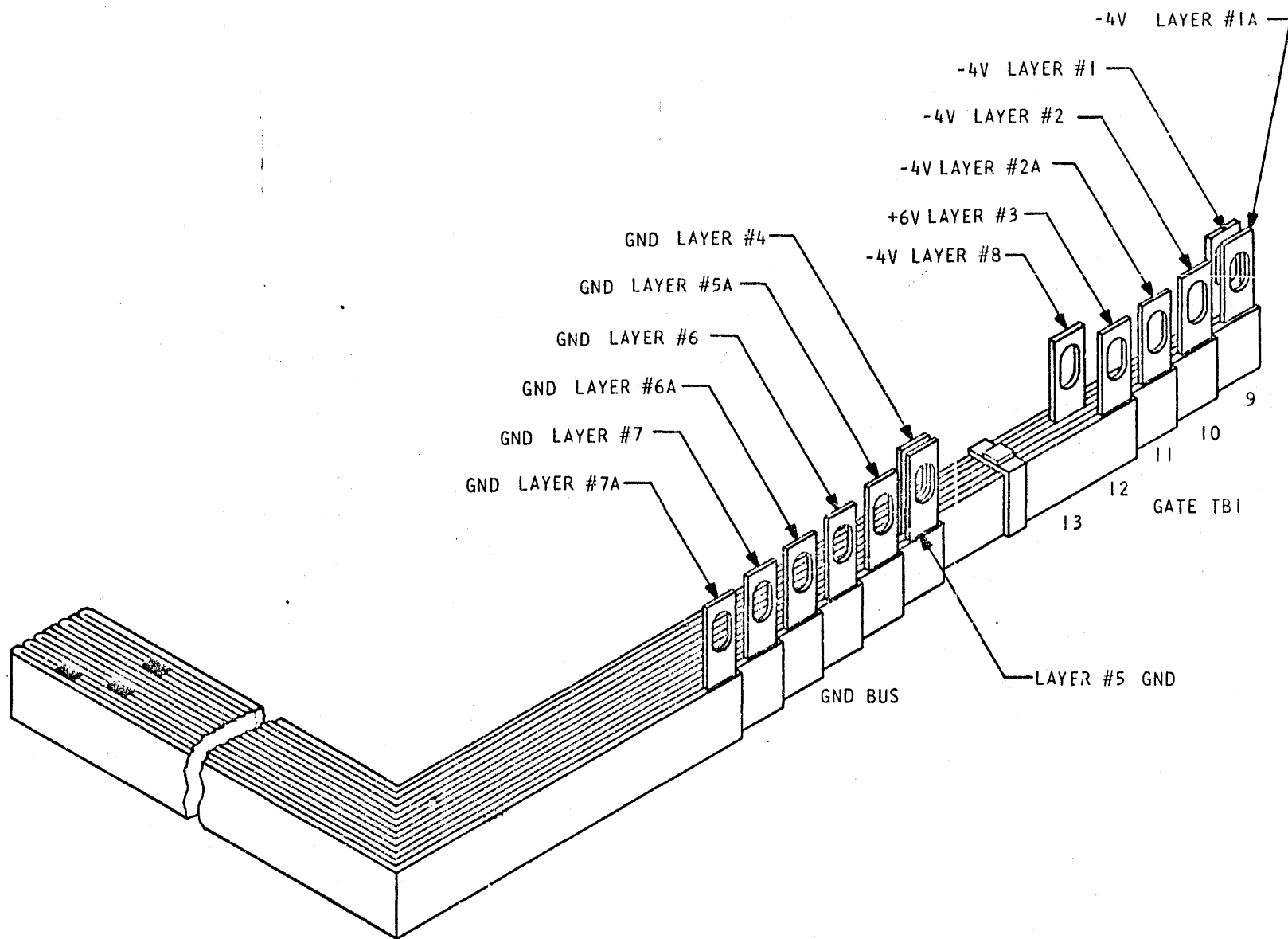
PART NO
5998398

LOGIC PG NO
YZ211

SHEET 1 OF 3

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LOWER LAMINAR CABLE
MAIN FRAME

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504	MAY73	311052
	BASIC FRAME LOWER			DEC71	309506	NOV73	310281
DESIGN	NH	SEP71	SHT 1 OF 3	APR72	309737	JUN76	315618
DETAIL	VR	SEP71		OCT72	309944	NOV76	315621
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO	
						YZ211	

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PART NO
5998398LOGIC PG NO
YZ211

LAMINAR PLUG CHART

SHEET 2 OF 3

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
7A	1	1	A4	D1 B10	GND	BLACK	5182916
		1		D1 C13			
2A	2	2	A4	D1 B13	-4	WHITE	5182920
		2		D1 C10			
5	3	3	A3	D6 B02	GND	BLACK	5182916
		3		D6 C05			
1	4	4	A3	D6 B05	-4	WHITE	5182920
		4		D6 C02			
7A	5	5	A4	G1 C10	GND	BLACK	5182916
		5		G1 D13			
2A	6	6	A4	G1 C13	-4	WHITE	5182920
		6		G1 D10			
5	7	7	A3	G6 C02	GND	BLACK	5182916
		7		G6 D05			
1	8	8	A3	G6 C05	-4	WHITE	5182920
		8		G6 D02			
7A	9	9	A4	K1 E10	GND	BLACK	5182916
		9		L1 A13			
2A	10	10	A4	K1 F13	-4	WHITE	5182920
		10		L1 A10			
5	11	11	A3	K6 E02	GND	BLACK	5182916
		11		L6 A05			
1	12	12	A3	K6 E05	-4	WHITE	5182920
		12		L6 A02			
7A	13	13	A4	P1 B10	GND	BLACK	5182916
		13		P1 C13			
2A	14	14	A4	P1 B13	-4	WHITE	5182920
		14		P1 C10			
5	15	15	A3	P6 B02	GND	BLACK	5182916
		15		P6 C05			
1	16	16	A3	P6 B05	-4	WHITE	5182920
		16		P6 C02			
7A	17	17	A4	S1 C10	GND	BLACK	5182916
		17		S1 D13			
3	18	18	A4	*	+6	ORANGE	1770761
		18					
5	19	19	A3	S6 C02	GND	BLACK	5182916
		19		S6 D05			
2A	20	20	A4	S1 C13	-4	WHITE	5182920
		20		S1 D10			
3	21	21	A4	*	+6	ORANGE	1770760
		21		*			
1	22	22	A3	S6 C05	-4	WHITE	5182920
		22		S6 D02			
7	23	23	B4	D1 B10	GND	BLACK	5182916
		23		D1 C13			
2	24	24	B4	D1 B13	-4	WHITE	5182920
		24		D1 C10			

* IF CA 1, CA 2, OR
CA 3 OR CA 4WIRE 18 TO Q2B11
WIRE 21 TO T4B11
WIRE 21 TO S2B11
RPL FEATURE IF IS IN
OIA-A4 LOCATIONWIRE 21 TO U2B11
TIE BACK WIRE 18
TIE BACK WIRE 21THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE OR REPRODUCTION IS AUTHORIZED
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504	MAY73	311052
	BASIC FRAME LOWER			DEC71	309506	NOV73	310281
DESIGN	NH	SEP71	SHT 2 OF 3	APR72	309737	JUN76	315618
DETAIL	VR	SEP71		OCT72	309944	NOV76	315621
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO	
						YZ211	

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PART NO
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LOGIC PG NO
YZ211

LAMINAR PLUG CHART

SHEET 3 OF 3

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LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
5A	25	25	B3	D6 B02	GND	BLACK	5182916
		25		D6 C05			
1A	26	26	B3	D6 B05	-4	WHITE	5182920
		26		D6 C02			
7	27	27	B4	G1 C10	GND	BLACK	5182916
		27		G1 D13			
2	28	28	B4	G1 C13	-4	WHITE	5182920
		28		G1 D10			
5A	29	29	B3	G6 C02	GND	BLACK	5182916
		29		G6 D05			
1A	30	30	B3	G6 C05	-4	WHITE	5182920
		30		G6 D02			
7	31	31	B4	K1 E10	GND	BLACK	5182916
		31		L1 A13			
2	32	32	B4	K1 E13	-4	WHITE	5182920
		32		L1 A10			
5A	33	33	B3	K6 E02	GND	BLACK	5182916
		33		L6 A05			
1A	34	34	B3	K6 E05	-4	WHITE	5182920
		34		L6 A02			
7	35	35	B4	P1 B10	GND	BLACK	5182916
		35		P1 C13			
2	36	36	B4	P1 B13	-4	WHITE	5182920
		36		P1 C10			
5A	37	37	B3	P6 B02	GND	BLACK	5182916
		37		P6 C05			
1A	38	38	B3	P6 B05	-4	WHITE	5182920
		38		P6 C02			
7	39	39	B4	S1 C10	GND	BLACK	5182916
		39		S1 D13			
2	40	40	B4	S1 C13	-4	WHITE	5182920
		40		S1 D10			
5A	41	41	B3	S6 C02	GND	BLACK	5182916
		41		S6 D05			
1A	42	42	B3	S6 C05	-4	WHITE	5182920
		42		S6 D02			
4	43	43	B4	SPARE	GND	BLACK	5182926
		43		SPARE			
8	44	NONE	B4	NONE	-4	NONE	NONE
		NONE		NONE			
3	45	45	B4	U2 B12	+6	ORANGE	1770760
		45	B4	U3 B12			1750347
		45	B3	C5 B12			

NOTE
 ORANGE JUMPER FROM 01A-B4U2B12 TO 01A-B3C5B12 FOR REMOTE POWER OFF FEATURE ON MOD II ONLY

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504	MAY73	311052
	BASIC FRAME LOWER			DEC71	309506	NOV73	310281
DESIGN	NH	SEP71	SHT 3 OF 3	APR72	309737	JUN76	315618
DETAIL	VR	SEP71		OCT72	309944	NOV76	315621
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO YZ211	

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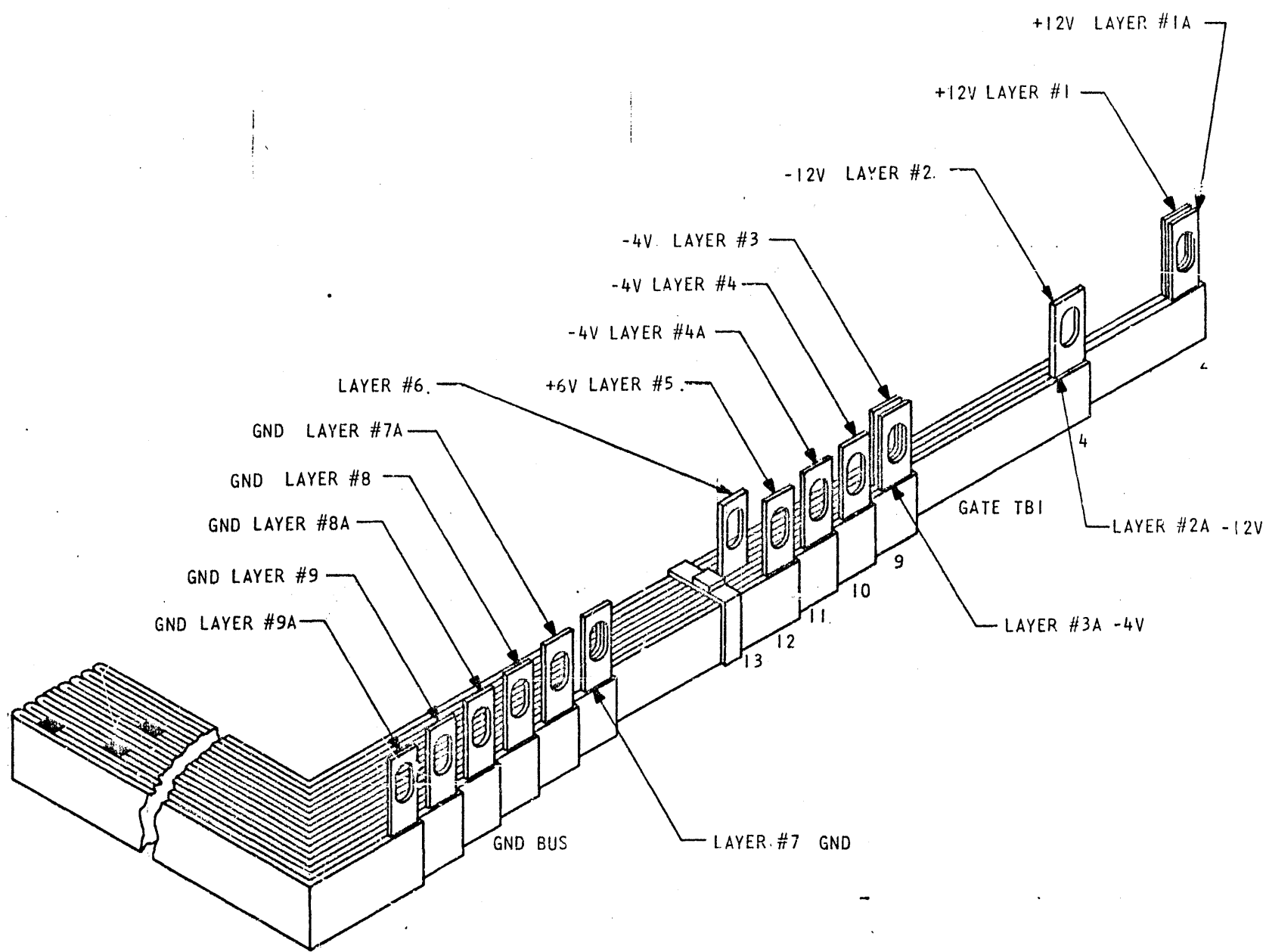
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PART NO
5998399

LOGIC PG NO
YZ221

SHEET 1 OF 4



LOWER LAMINAR CABLE
EXPANSION FRAMES

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504		
	EXPANSION FRAMES LOWER			DEC71	309506		
DESIGN	NH	SEP71	SHT 1 OF 4	NOV76	315621		
DETAIL	VR	SEP71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	RS	SEP71					YZ221

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5998399

PART NO
5998399LOGIC PG NO
YZ221

LAMINAR PLUG CHART

SHEET 2 OF 4

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
9A	1	1	A4	D1 B10	GND	BLACK	5182916
		1		D1 C13			
4A	2	2	A4	D1 B13	-4	WHITE	5182920
		2		D1 C10			
7	3	3	A3	D6 B02	GND	BLACK	5182916
		3		D6 C05			
3	4	4	A3	D6 B05	-4	WHITE	5182920
		4		D6 C02			
9A	5	5	A4	G1 C10	GND	BLACK	5182916
		5		G1 D13			
4A	6	6	A4	G1 C13	-4	WHITE	5182920
		6		G1 D10			
7	7	7	A3	G6 C02	GND	BLACK	5182916
		7		G6 D05			
3	8	8	A3	G6 C05	-4	WHITE	5182920
		8		G6 D02			
9A	9	9	A4	K1 E10	GND	BLACK	5182916
		9		L1 A13			
4A	10	10	A4	K1 E13	-4	WHITE	5182920
		10		L1 A10			
7	11	11	A3	K6 E02	GND	BLACK	5182916
		11		L6 A05			
3	12	12	A3	K6 E05	-4	WHITE	5182920
		12		L6 A02			
9A	13	13	A4	P1 B10	GND	BLACK	5182916
		13		P1 C13			
4A	14	14	A4	P1 B13	-4	WHITE	5182920
		14		P1 C10			
7	15	15	A3	P6 B02	GND	BLACK	5182916
		15		P6 C05			
3	16	16	A3	P6 B05	-4	WHITE	5182920
		16		P6 C02			
9A	17	17	A4	S1 C10	GND	BLACK	5182916
		17		S1 D13			
4A	18	18	A4	S1 C13	-4	WHITE	5182920
		18		S1 D10			
7	19	19	A3	S6 C02	GND	BLACK	5182916
		19		S6 D05			
3	20	20	A3	S6 C05	-4	WHITE	5182920
		20		S6 D02			
9	21	21	B4	D1 B10	GND	BLACK	5182916
		21		D1 C13			
4	22	22	B4	D1 B13	-4	WHITE	5182920
		22		D1 C10			
7A	23	23	B3	D6 B02	GND	BLACK	5182916
		23		D6 C05			
3A	24	24	B3	D6 B05	-4	WHITE	5182920
		24		D6 C02			

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504		
	EXPANSION FRAMES LOWER			DEC71	309506		
DESIGN	NH	SEP71	SHT 2 OF 4	NOV76	315621		
DETAIL	VR	SEP71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO	
						YZ221	

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PART NO

5998399

LOGIC PG NO

YZ221

LAMINAR PLUG CHART

SHEET 3 OF 4

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
9	25	25	B4	G1 C10	GND	BLACK	5182916
		25		G1 D13			
4	26	26	B4	G1 C13	-4	WHITE	5182920
		26		G1 D10			
7A	27	27	B3	G6 C02	GND	BLACK	5182916
		27		G6 D05			
3A	28	28	B3	G6 C05	-4	WHITE	5182920
		28		G6 D02			
9	29	29	B4	K1 E10	GND	BLACK	5182916
		29		L1 A13			
4	30	30	B4	K1 E13	-4	WHITE	5182920
		30		L1 A10			
7A	31	31	B3	K6 E02	GND	BLACK	5182916
		31		L6 A05			
3A	32	32	B3	K6 E05	-4	WHITE	5182920
		32		L6 A02			
5	33	33	B3	L6 D04	+6	ORANGE	5182917
5	33	33	B4	L1 D11			
1A	34	34	B4	M1 B11	+12	GRAY	5182919
		34		M1 C11			
1	35	35	B3	M6 B04	+12	GRAY	5182919
		35		M6 C04			
2A	36	36	B4	N1 C11	-12	VIOLET	5182918
		36		N1 E11			
2	37	37	B3	N6 D04	-12	VIOLET	5182918
		37		N6 E04			
1A	38	38	B4	M1 D11	+12	GRAY	5182919
		38		N1 A11			
1	39	39	B3	M6 E04	+12	GRAY	5182919
		39		N6 A04			
9	40	40	B4	P1 B10	GND	BLACK	5182916
		40		P1 C13			
4	41	41	B4	P1 B13	-4	WHITE	5182920
		41		P1 C10			
7A	42	42	B3	P6 B02	GND	BLACK	5182916
		42		P6 C05			
3A	43	43	B3	P6 B05	-4	WHITE	5182920
		43		P6 C02			
9	44	44	B4	S1 C10	GND	BLACK	5182916
		44		S1 D13			
4	45	45	B4	S1 C13	-4	WHITE	5182920
		45		S1 D10			
7A	46	46	B3	S6 C02	GND	BLACK	5182916
		46		S6 D05			
3A	47	47	B3	S6 C05	-4	WHITE	5182920
		47		S6 D02			
5	48	48	B3	L6 D02	+6	ORANGE	5182917
5	48	48	B4	L1 D13			

NOTES:

- 1 NOT USED FOR CA4 FEATURE
- 2 FOR CA4 FEATURE WIRE NO. 33 TERMINATES AT PIN LOCATION 02A-B4Q2B11
- 3 FOR CA4 FEATURE WIRE NO. 48 TERMINATES AT PIN LOCATION 02A-B4T4B11

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504		
EXPANSION FRAMES LOWER				DEC71	309506		
DESIGN	NH	SEP71	SHT 3 OF 4	NOV76	315621		
DETAIL	VR	SEP71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RS	SEP71				LOGIC PG NO	
						YZ221	

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5998399

PART NO
5998399LOGIC PG NO
YZ221

LAMINAR PLUG CHART

SHEET 4 OF 4

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
6	49	NONE	B4	NONE	-4	NONE	NONE
		NONE		NONE			
5	50	50	A4	Q2 B11	+6	ORANGE	1770761
		50					
5	51	51	A4	S2 B11	+6	ORANGE	1770760
		51		T4 B11			

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			SEP71	309504		
	EXPANSION FRAMES LOWER			DEC71	309506		
DESIGN	NH	SEP71	SHT 4 OF 4	NOV76	315621		
DETAIL	VR	DEC71					
CHECK	AAM	SEP71	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	RS	SEP71				YZ221	C

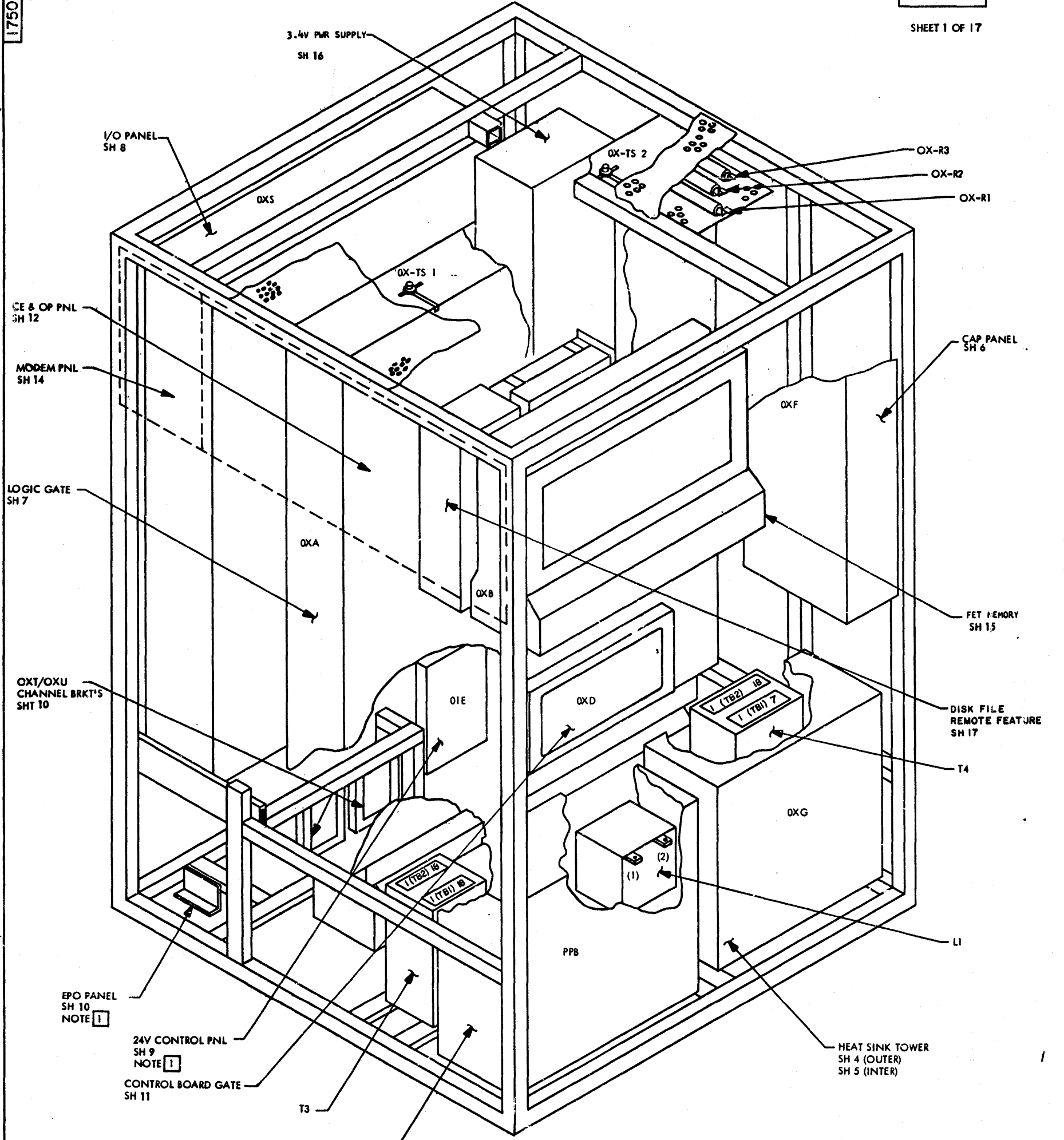
5998399

1750284

STANDARD CODE

CARD CODE 1750284

SHEET 1 OF 17



- NOTES
- 1. USED IN BASIC FRAME ONLY
 - 2. USED IN EXPANSION FRAMES ONLY
 - 3. GERMAN ONLY

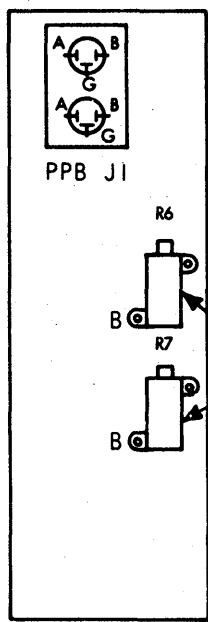
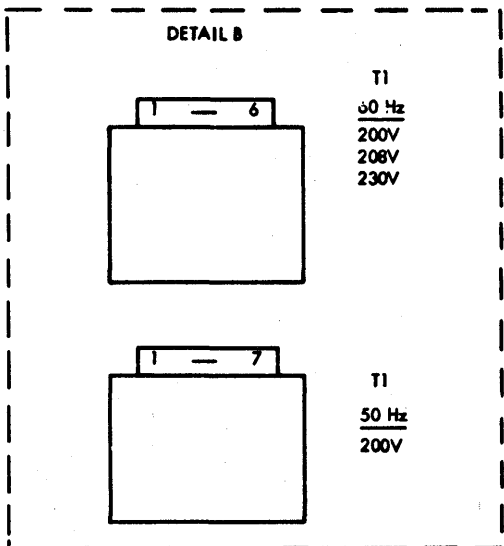
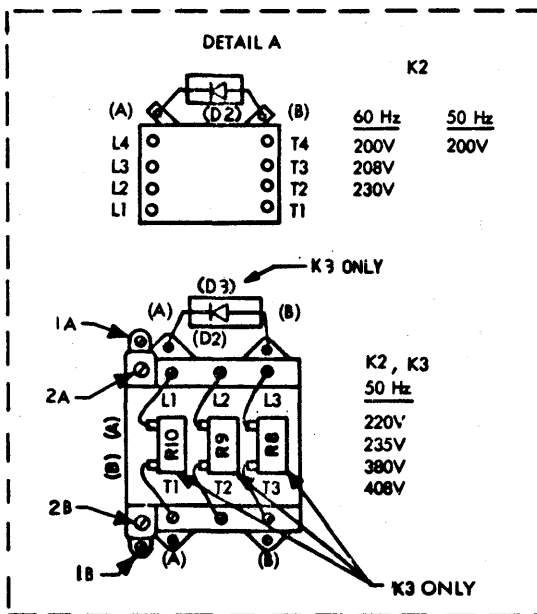
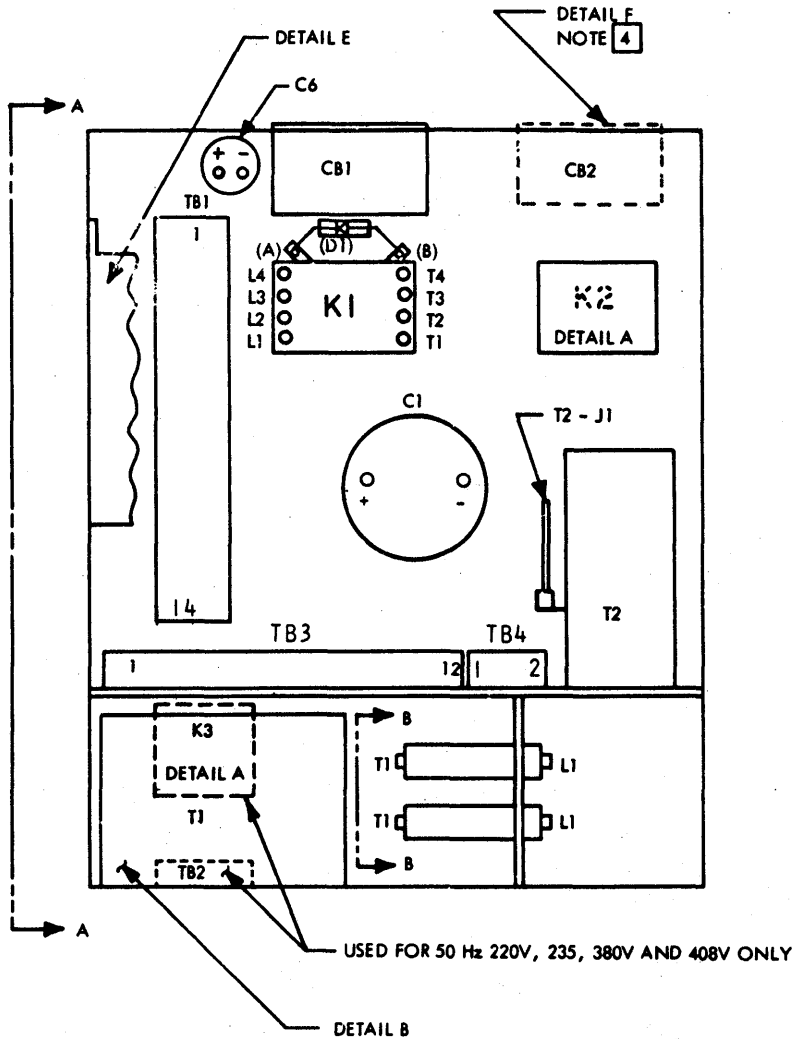
- PRIME POWER BOX
- SH 2 - NOTE 1
 - SH 3 - NOTE 2
 - SH 13 NOTE 3

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

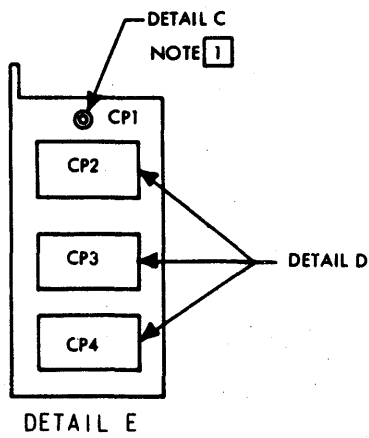
INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
BASE SYSTEM DIAGRAM	MAY76	314419					1750284
COMPONENT LOCATION	AUG76	315608					
DESIGN WJK/MAY76/MODEL	NOV76	315621					
DETAIL WJK/MAY76/SCALE NONE	JUL77	316710					
CHECK WJK/MAY76/DRAW	JAN79	318589					
APPRO TLES/MAY76/CHECK							

C

PRIME POWER BOX (PPB)
BASIC FRAME



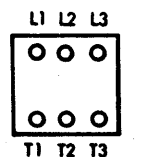
VIEW A-A



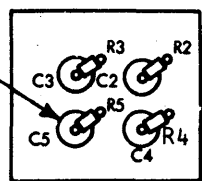
DETAIL E



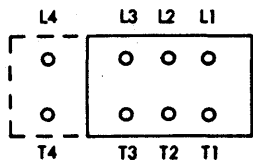
DETAIL C



DETAIL D
WIRING SIDE



VIEW B-B



DETAIL F
WIRING SIDE

NOTES

1. PRESENT FOR 60 Hz 200V, 208V, 230V.
2. R6 & R7 ARE PRESENT WITH FRAMES 1 AND 2. R7 PRESENT ONLY WITH 3 OR MORE FRAMES.
3. USED ONLY FOR 50 Hz 380V AND 408V FRANCE
4. PRESENT WITH EXPANSION FRAMES ONLY.

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME				MAY76	314419					1750284
SYSTEM DIAGRAM				AUG76	315608					
COMPONENT LOCATION				NOV76	315621					
DESIGN	WJK	MAY76	MODEL	JUL77	316710					
CHECK	WJK	MAY76	DRAWN	JAN79	318589					
APPROV	TES	MAY76	CHECK							YZ301

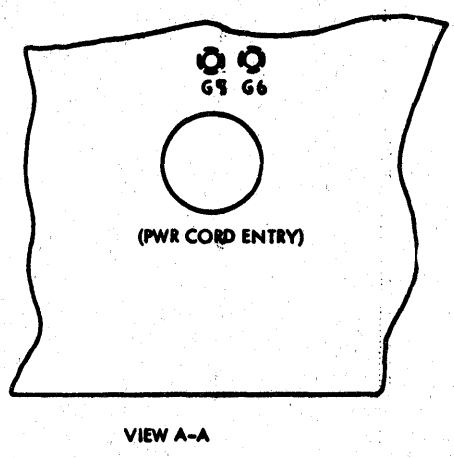
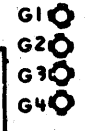
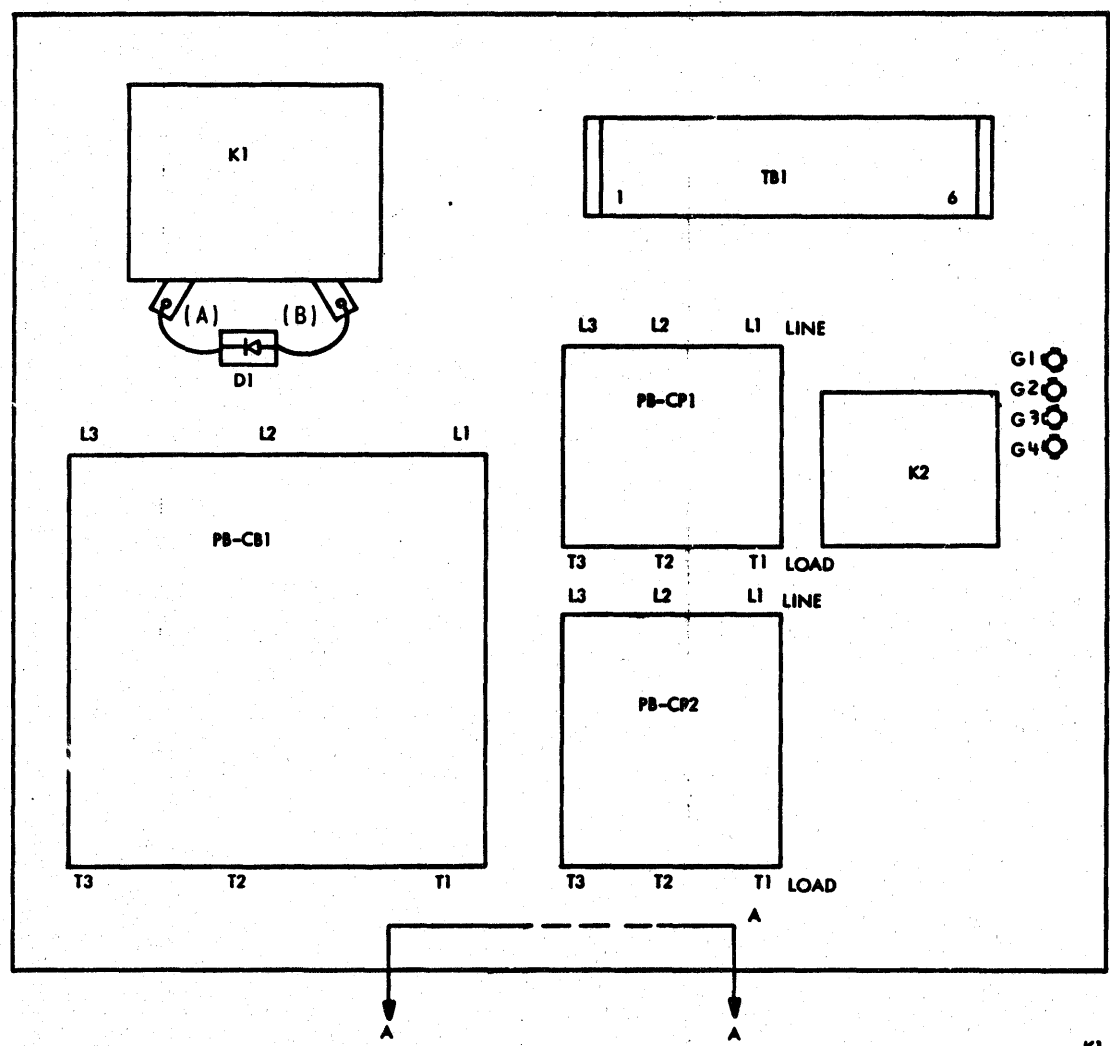
1750284

STANDARD 199
C001

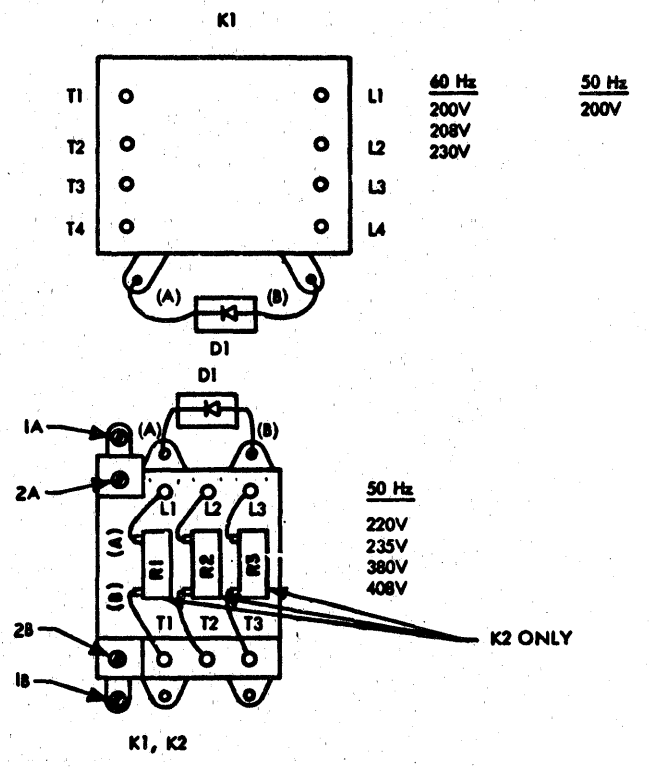
PRIME POWER BOX EXPANDED FRAME (PPB)

CARD CODE 1750284

SHEET 3 OF 17



VIEW A-A



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DAYS

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM				MAY76	314419		JAN76	312922		1750284
COMPONENT LOCATION				AUG76	315608					
DESIGN	WJK	MAY76	MODEL	NOV76	315621					
DETAIL			SCALE	JUL77	316710					
CHECK	WJK	MAY76	DRAW	JAN79	318589				YZ301	
APP'D	TES	MAY76	CHECK							

C

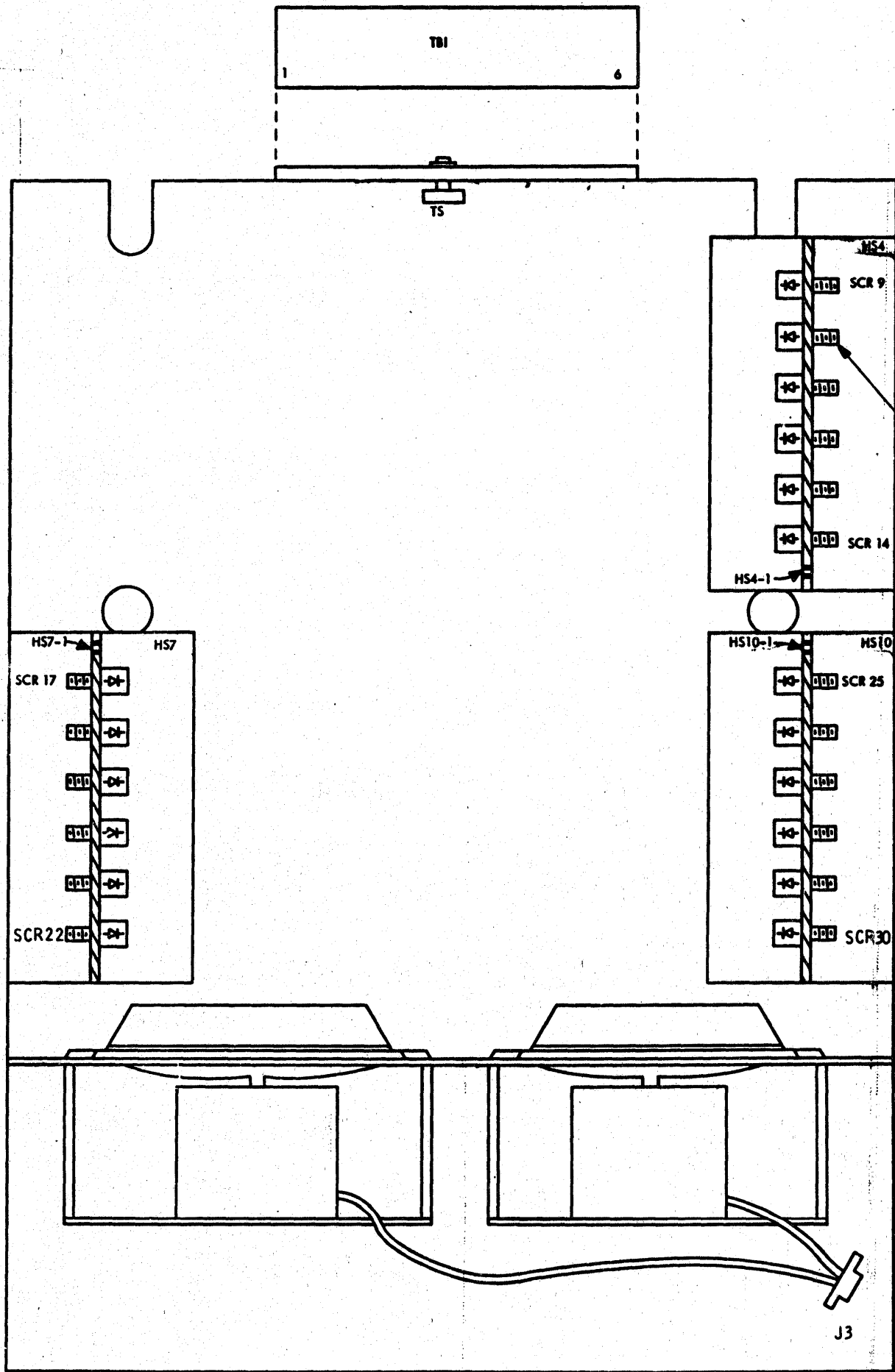
1750284

STANDARD CODE

CARD CODE 1750284

HEAT SINK TOWER (OUTER)
(XG)

SHEET 4 OF 17



NOTE

1. SCR = SILICON CONTROLLED RECTIFIER

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAY76	314419					
	COMPONENT LOCATION			AUG76	315608					
DESIGN	WJK	MAY76	MODEL	NOV76	315621					
DETAIL			SCALE							
CHECK	WJK	MAY76	DRAW	JUL77	316710					YZ301
APPRO	YES	MAY76	CHECK	JAN79	318589					

C

4-070C/1

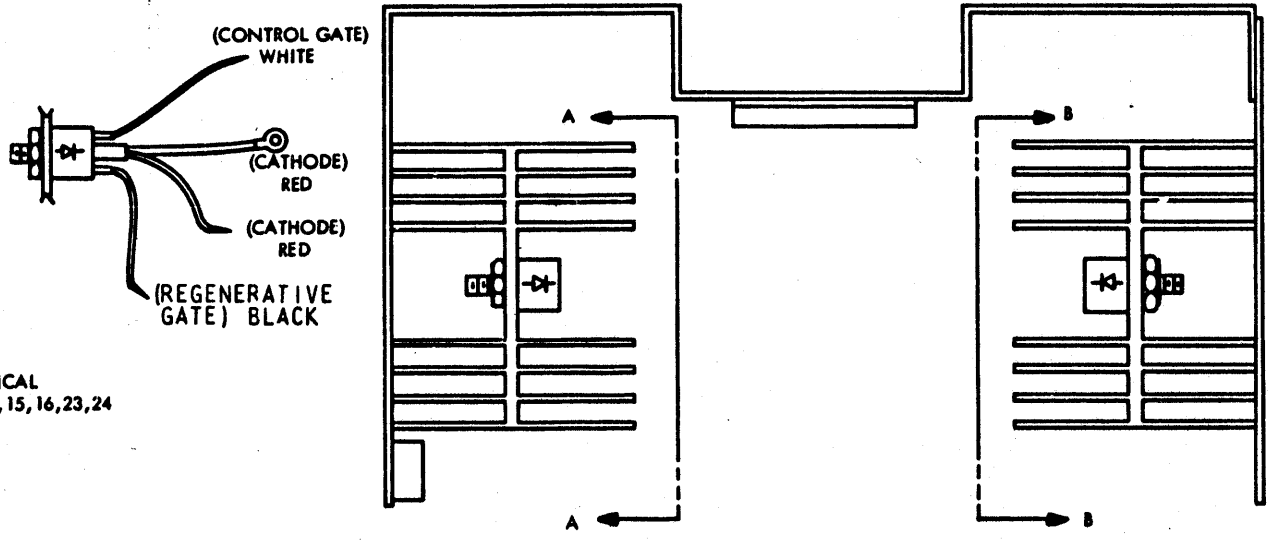
1750284

STANDARD CODE

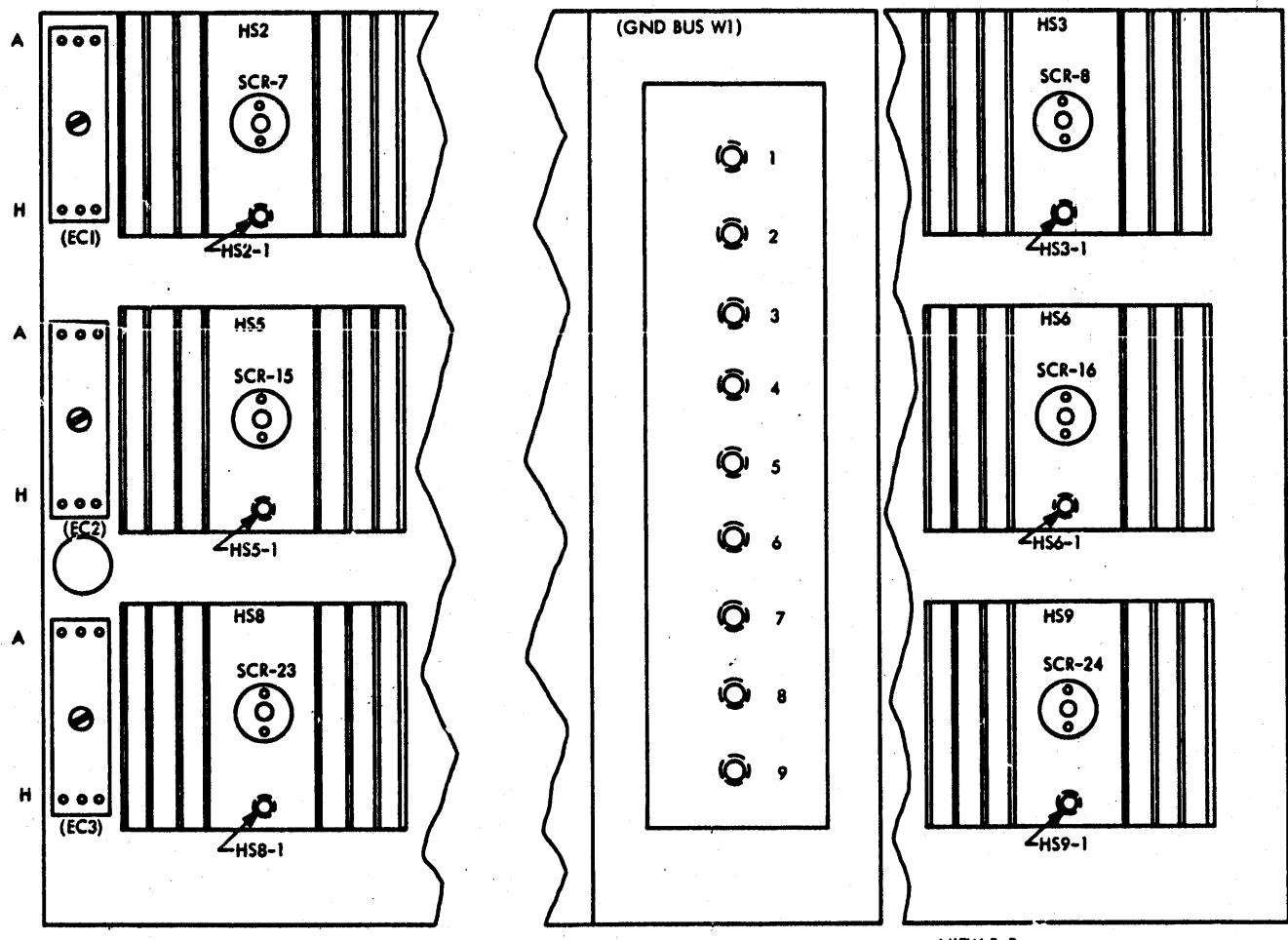
CARD CODE 1750284

SHEET 5 OF 7

HEAT SINK TOWER (INNER)
(OXG)



TYPICAL
SCR-7, 8, 15, 16, 23, 24



VIEW A-A

VIEW B-B

NOTE
1. SCR = SILICON CONTROLLED RECTIFIER

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME				MAY76	314419		JAN76	312922		1750284
OxG-HEATSINK TWR (-4V)				AUG76	315608					
DESIGN	WJK	MAY76	MODEL	NOV76	315621					
DETAIL			SCALE	JUL77	316710					
CHECK	WJK	MAY76	DRAW	JAN79	318589				YZ301	
APPROV	TES	MAY76	CHECK							

C

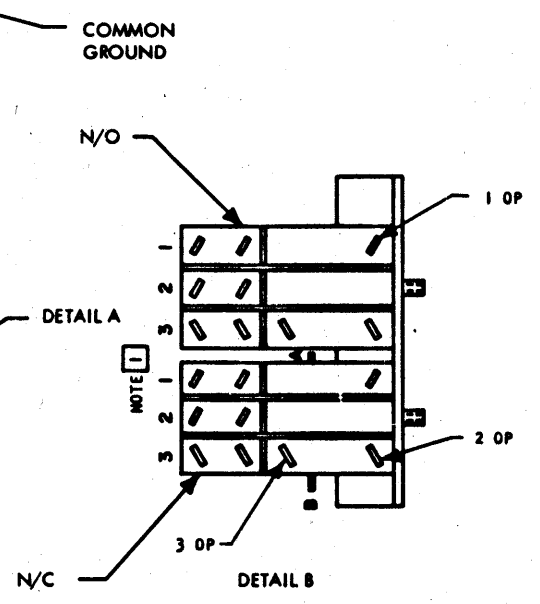
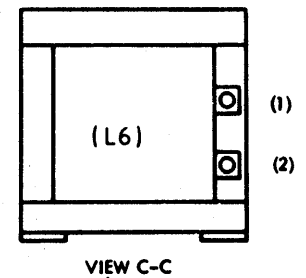
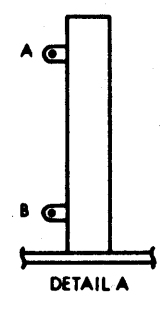
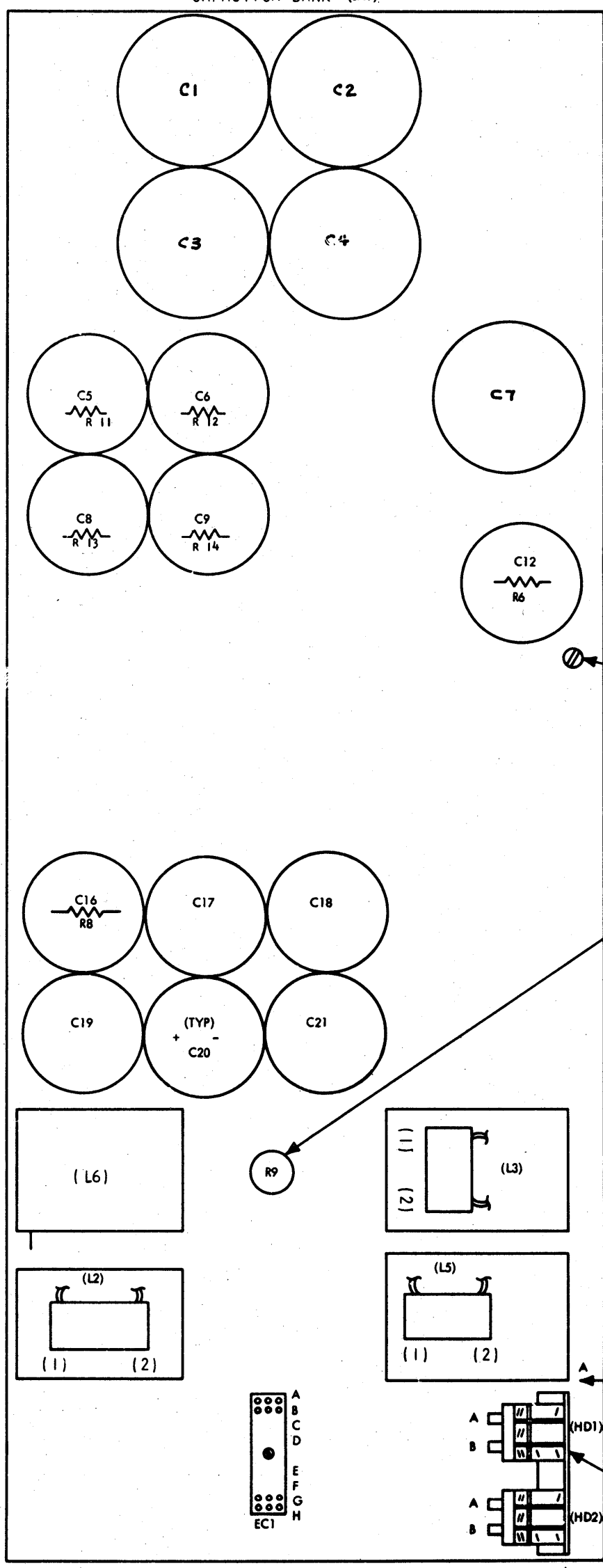
1750284

STANDARDS CODE

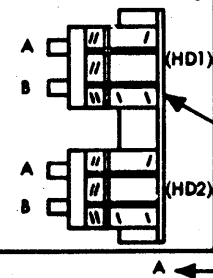
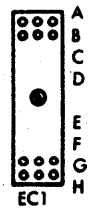
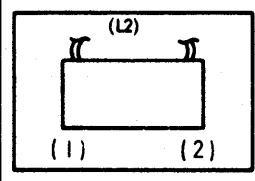
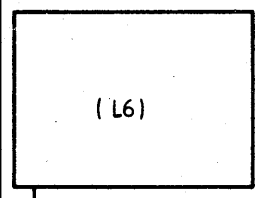
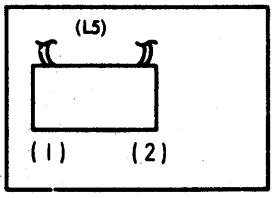
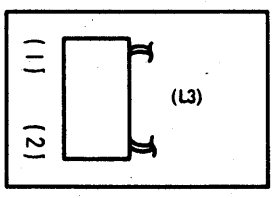
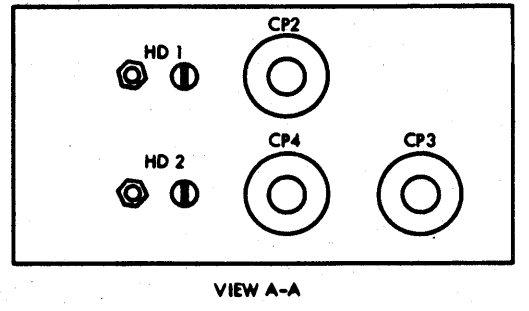
CAPACITOR BANK (OXF)

CARD CODE 1750284

SHEET 6 OF 17



NOTES:
 [] TERMINALS 1 AND 3 OF HD1 AND HD2 ARE REVERSED ON SOME MACHINES. TERMINAL 3 IS THE TERMINAL THAT HAS R9 (2G₁) ON HD1.



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAY76	314419					
	COMPONENT LOCATION			AUG76	315608					
DESIGN	WJK	MAY76	MODEL	NOV76	315621					
CHECK	WJK	MAY76	DRAW	JUL77	316710					YZ301
APPRO	TES	MAY76	CHECK	JAN79	318589					

1750284

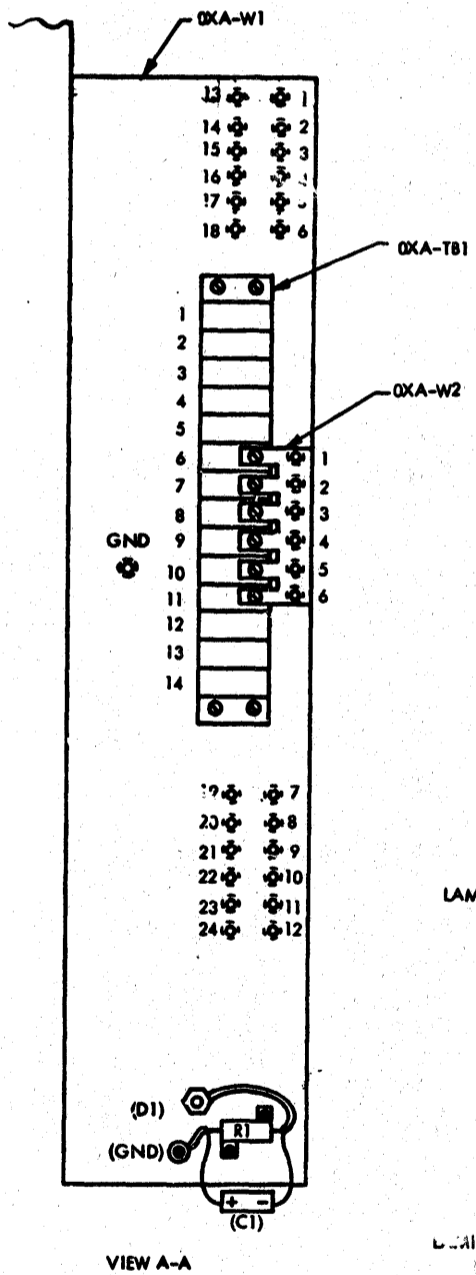
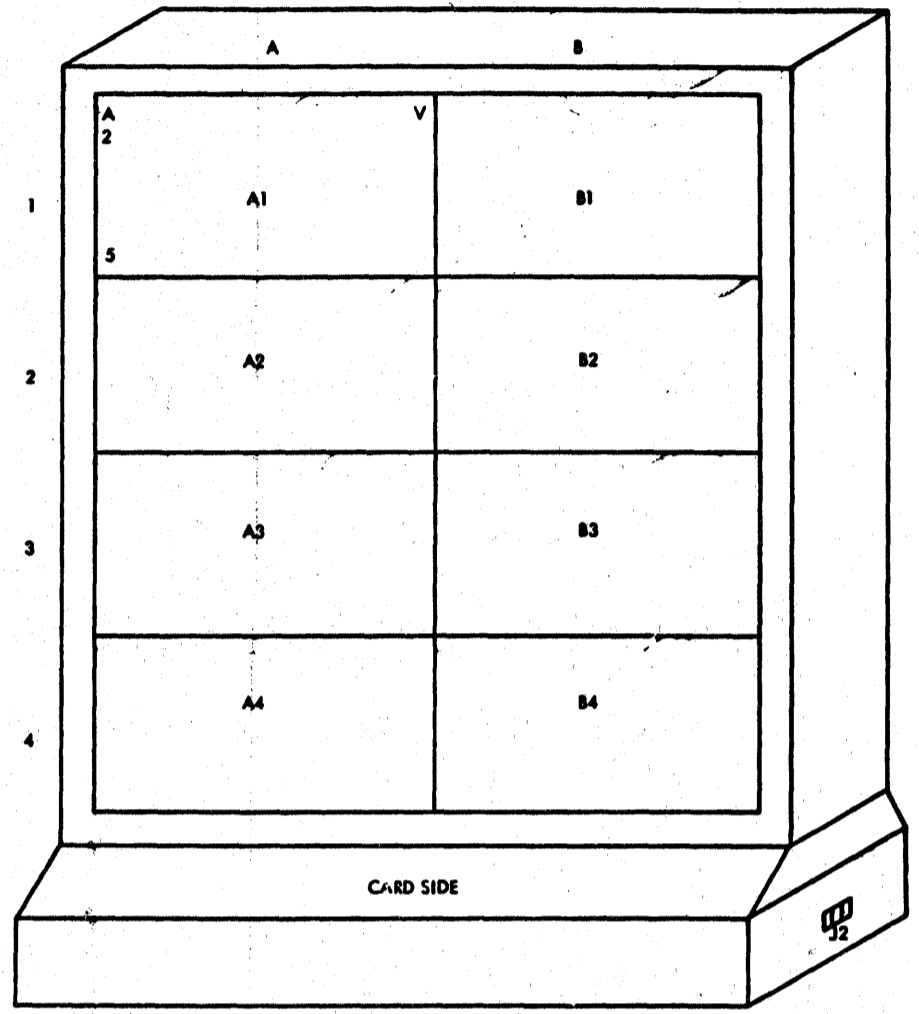
1750284

STANDARD
CASE

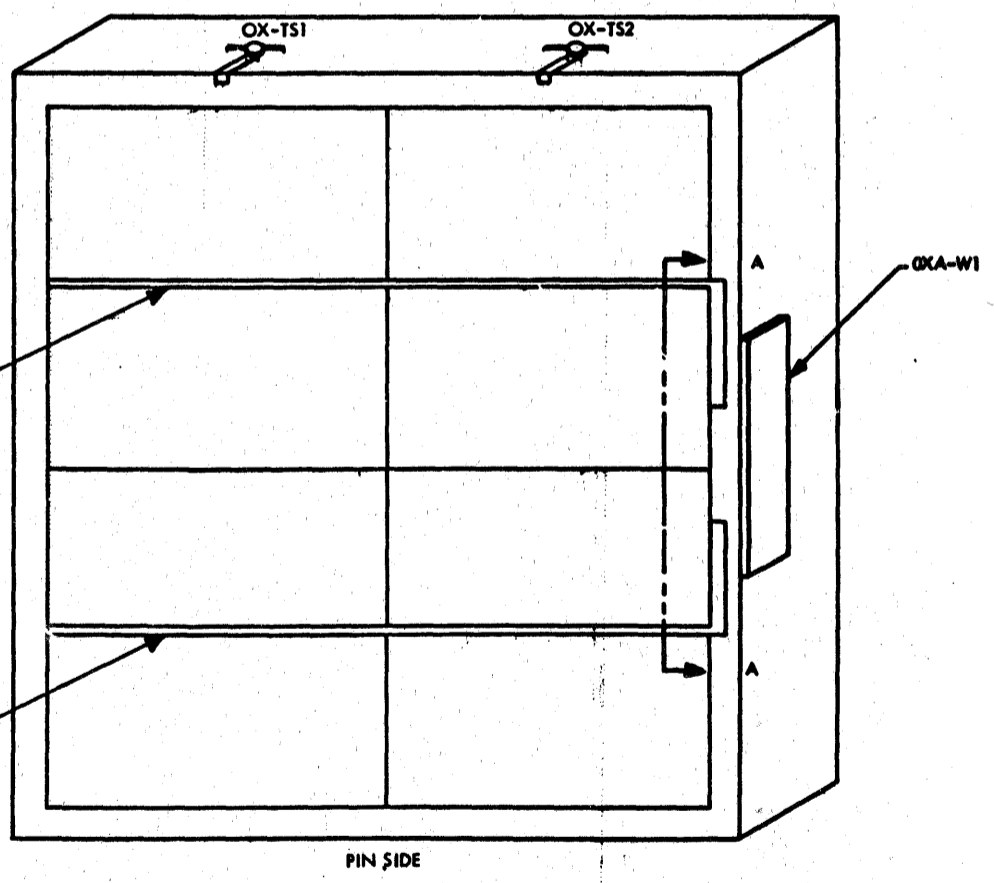
CARD CODE 1750284

SHEET 7 OF 17

LOGIC GATE - OXA



VIEW A-A



PIN SIDE

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAY76	314419					
DESIGN	WJK MAY76			AUG76	315608					
DRAWN	WJK MAY76			NOV76	315621					
CHECK	WJK MAY76			JUL77	316710					
APPRO	TES MAY76			JAN79	318589					YZ301

C

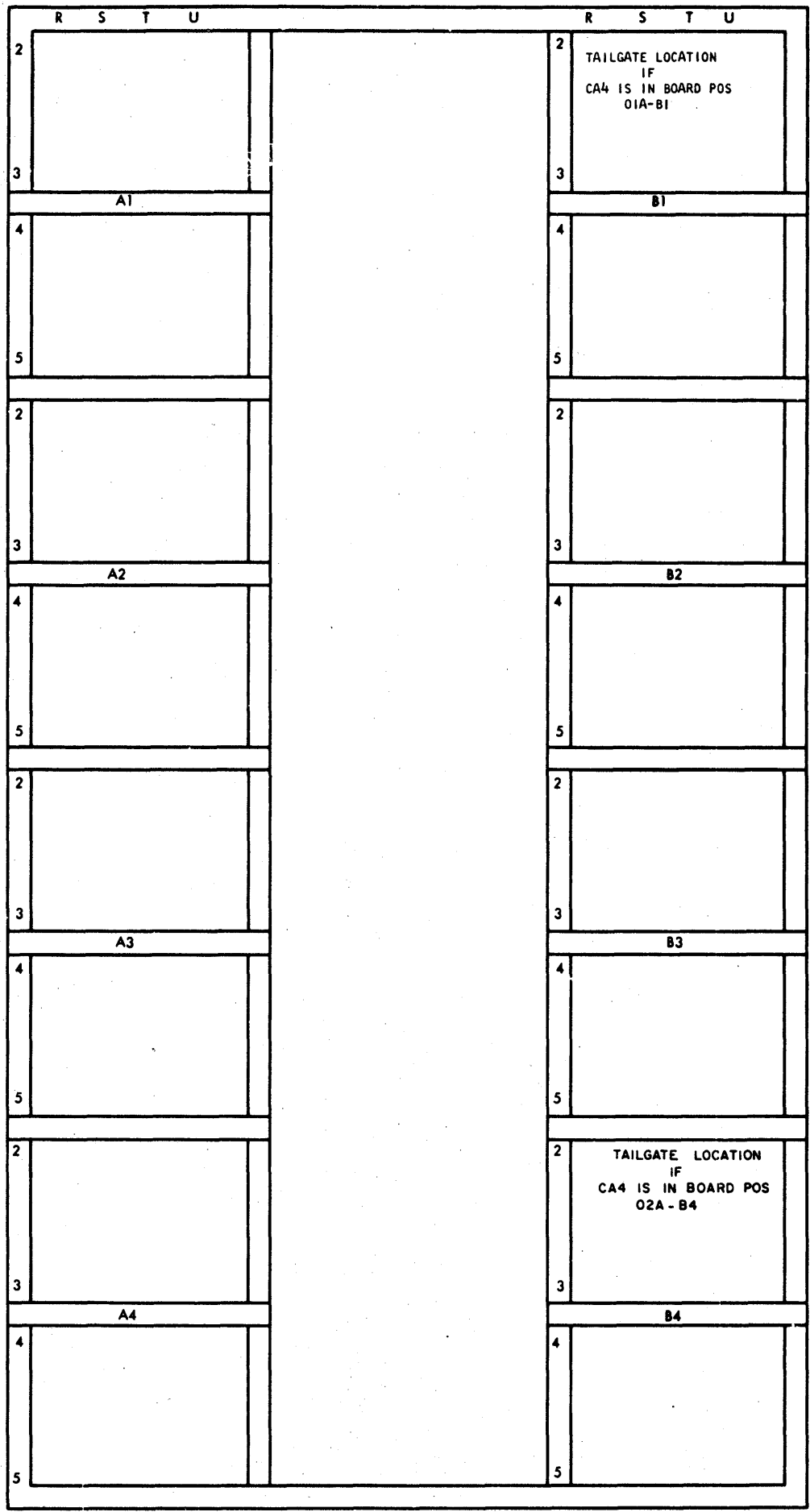
1750284

STANDARD CODE

OX5 (I/O PANEL)

CARD CODE 1750284

SHEET 8 OF 17



VIEW FROM OUTSIDE MACHINE

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM				MAY76	314419					
COMPONENT LOCATION				AUG76	315608					
DESIGN	WJK	MAY76	MODEL	NOV76	315621					
DETAIL			SCALE							
CHECK	WJK	MAY76	DRAW	JUL77	316710					YZ301
APPRO	TES	MAY76	CHECK	JAN79	318589					

1750284

C

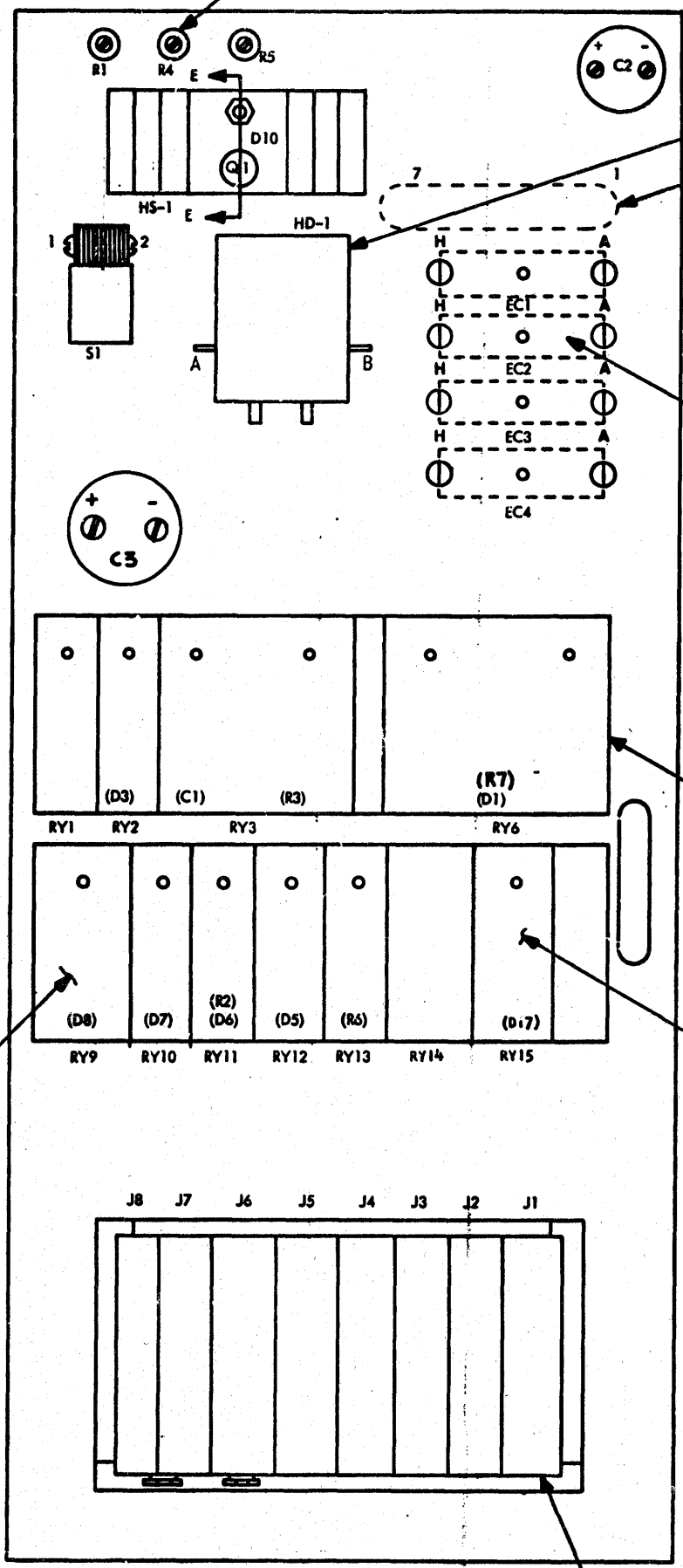
1750284

STANDARD CODE

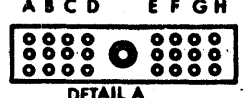
24 VOLT CONTROL PANEL (01E)

CARD CODE 1750284

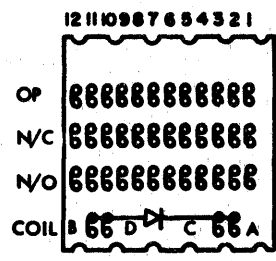
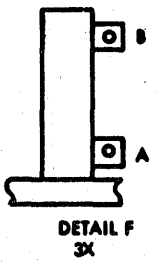
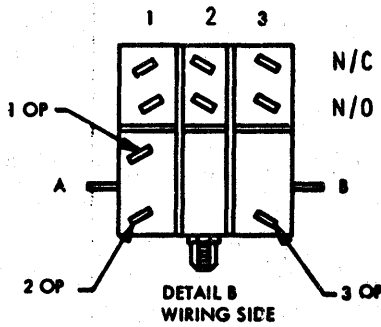
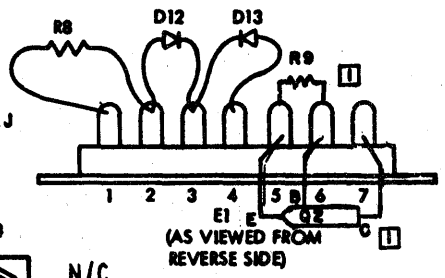
SHEET 9 OF 17



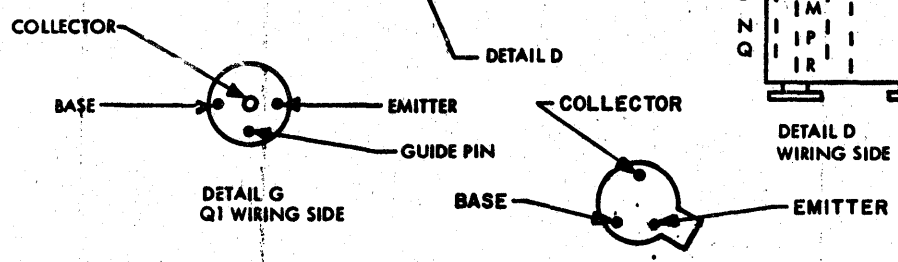
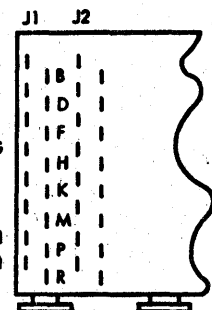
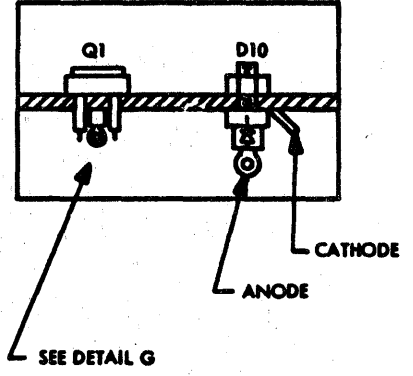
AS VIEWED FROM REVERSE SIDE (WIRING SIDE)



TYP EC1, EC2, EC3 & EC4



TYP FOR 4, 6 & 12 POS RELAYS WIRING SIDE



DETAIL J Q2 WIRING SIDE

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

- NOTES
- 1 REQUIRED IN SYSTEMS WITH REMOTE POWER OFF FEATURE
 - 2 NOT REQUIRED FOR REMOTE CONFIGURATION

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	MAY76	314419					
DESIGN	WJK MAY76	AUG76	315608					
DETAIL	WJK MAY76	NOV76	315621					
CHECK	WJK MAY76	JUL77	316710					
APPROV	TES MAY76	JAN79	318589					YZ301

1750284

1750284

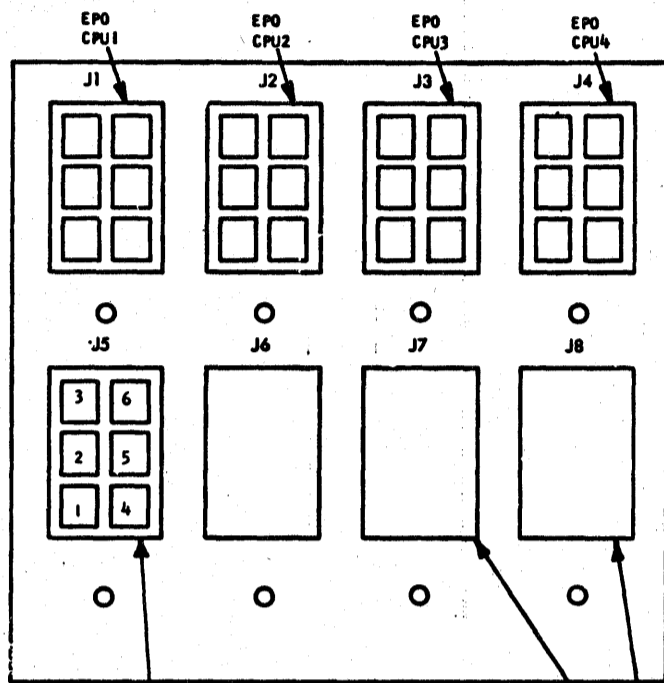
STANDARD CODE

CARD CODE

1750284

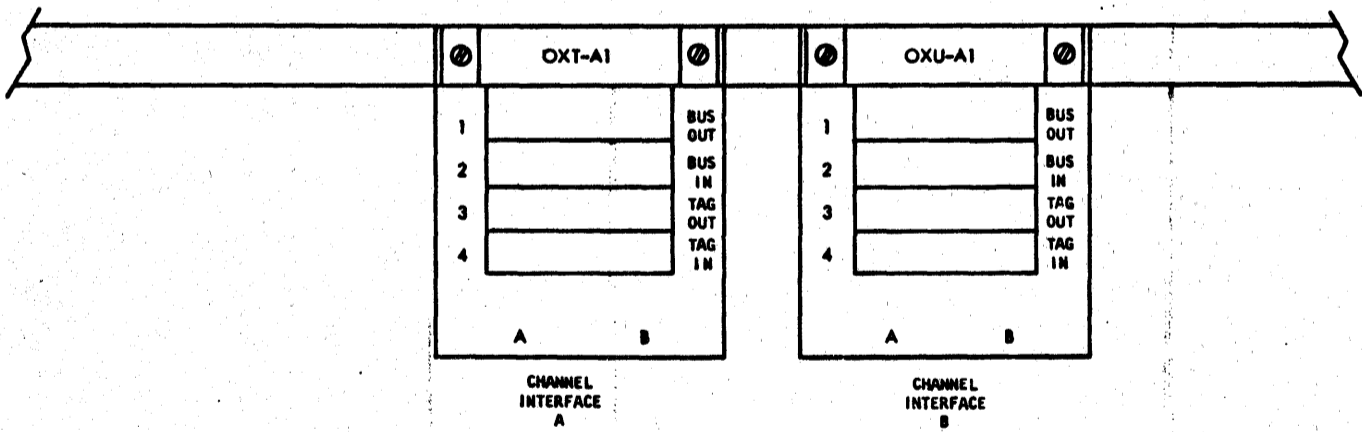
SHEET 10 OF 17

EPO AND REMOTE ENABLE/DISABLE PANEL



REMOTE ENABLE/DISABLE FOR TYPE 3 CHANNEL IN 3706 FRAME
 REMOTE ENABLE/DISABLE FOR TYPE 3 IN 3705 FRAME
NOTE: NEVER PLUG AN EPO CABLE INTO A REMOTE ENABLE/DISABLE SOCKET (J7 OR J8).

(5X) TYP



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
EAL:1 SYSTEM DIAGRAM		MAY76	314419					
COMPONENT LOCATION		AUG76	315608					
DESIGN	WJK MAY76	NOV76	315621					
CHECK	WJK MAY76	JUL77	316710					
APPROV	TES MAY76	JAN79	318589					YZ301

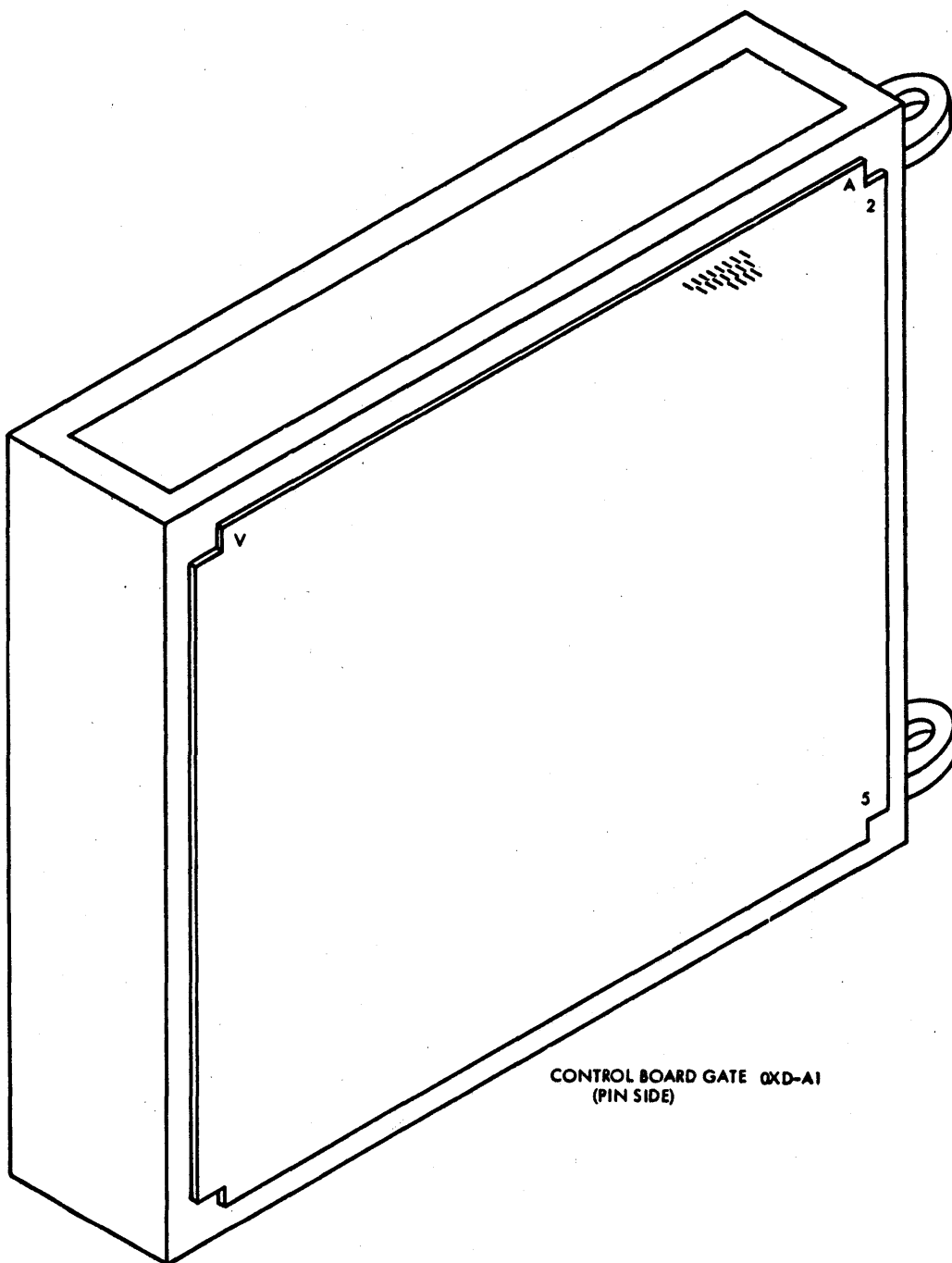
C

1750284

STANDARDS
CODE

CARD CODE 1750284

SHEET 11 OF 17



CONTROL BOARD GATE 0XD-A1
(PIN SIDE)

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAY76	314419					
	COMPONENT LOCATION			AUG76	315608					
DESIGN	WJK	MAY76	MODEL	NOV76	315621					
DETAIL			SCALE	JUL77	316710					
CHECK	WJK	MAY76	DRAW	JAN79	318589					
APPRO	TES	MAY76	CHECK							

1750284

VZ301

C

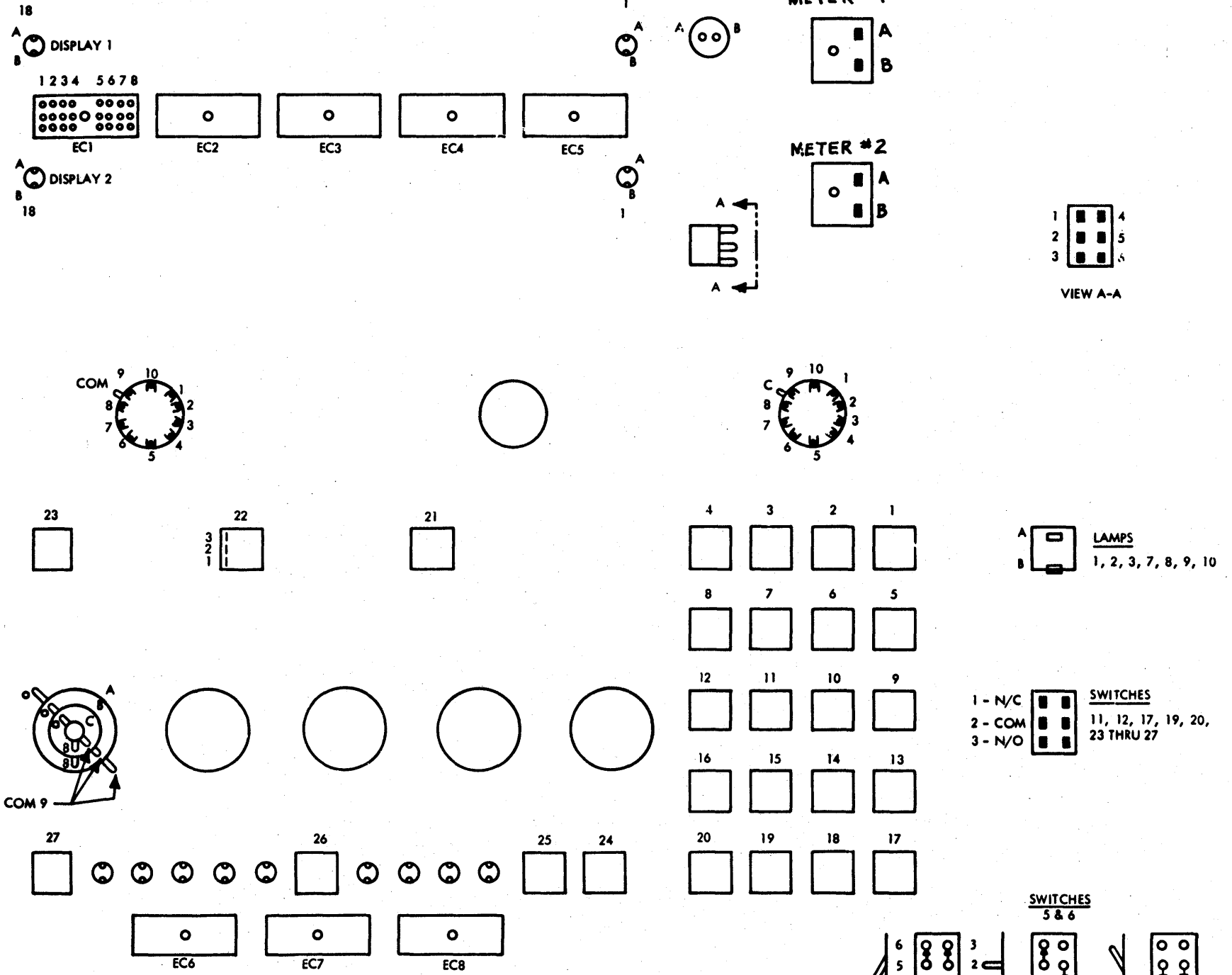
1750284

STANDARD CODE

CE AND OP PANEL - WIRING SIDE

CARD CODE 1750284

SHEET 12 OF 17



1 - N/C
2 - COM
3 - N/O

SWITCHES
11, 12, 17, 19, 20,
23 THRU 27

SWITCHES
5 & 6

TOGGLE DOWN
TOGGLE CENTER
TOGGLE UP

TYPE 3CA
SWITCHES
5, 6, 13 AND 14

TYPE 4 CA
POS 13 OR 14 FOR IPL SOURCE
POS 5 AND 13 IF 2 CA'S IN FIRST FRAME
(CA4 AND CA2)
(CA4 AND CA4)

POS 6 AND 14 IF 2 CA'S IN FIRST EXP. FRAME
(CA4 AND CA4)

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAY76	314419					1750284
DESIGN	WJK MAY76		MODEL	AUG76	315608					
DETAIL	WJK MAY76		SCALE	NOV76	315621					
CHECK	WJK MAY76		DRAW	JUL77	316710				YZ301	
APPRO	TES MAY76		CHECK	JAN79	318589					

C

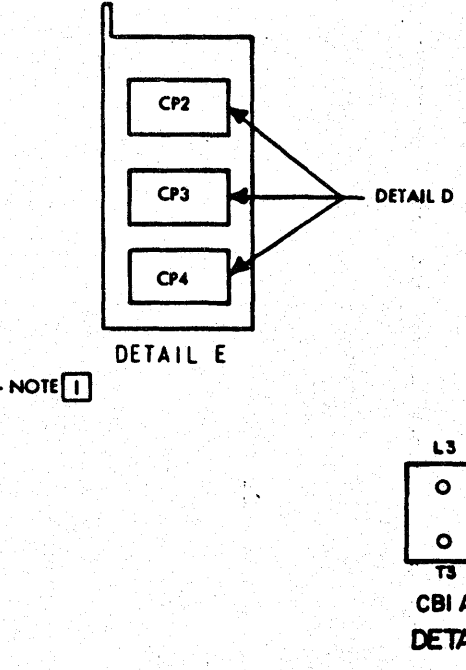
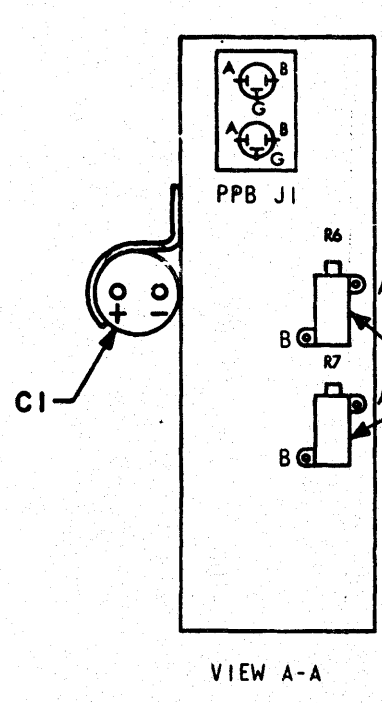
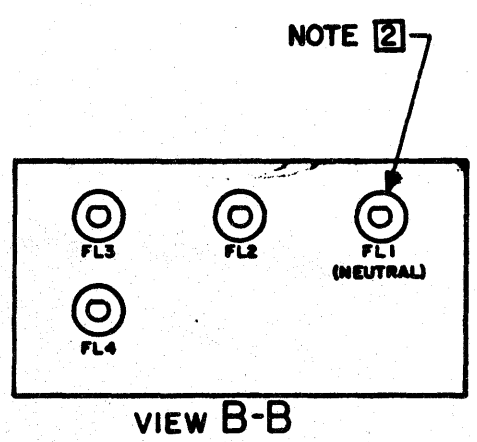
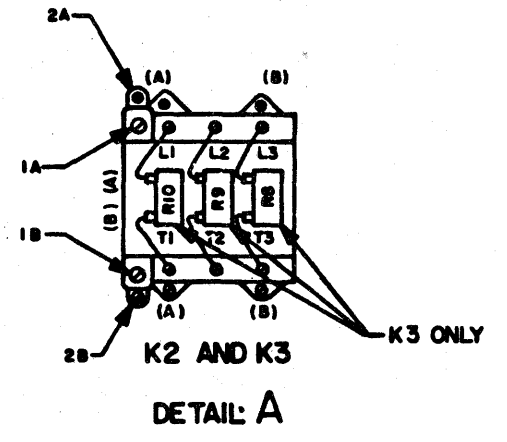
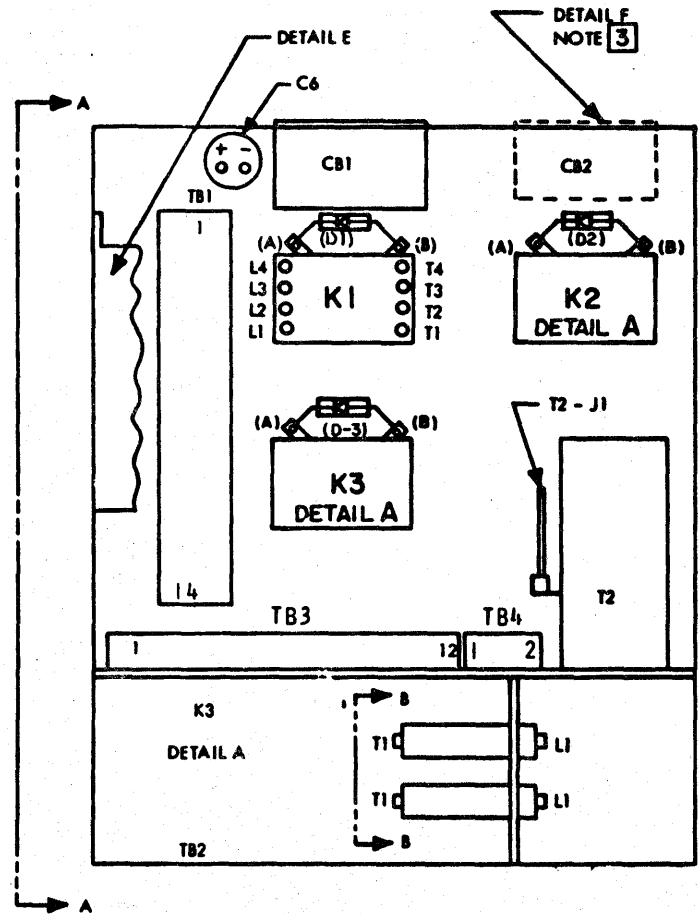
1750284

STANDARD CODE

CARD CODE 1750284

SHEET 13 OF 17

PRIME POWER BOX (PPB)
BASIC FRAME
220/235V, 380/408V GERMANY ONLY



- 1. R6 & R7 ARE PRESENT WITH FRAMES 1 AND 2. R7 PRESENT ONLY WITH 3 OR MORE FRAMES.
- 2. USED ONLY FOR 50 Hz 380V AND 408V.
- 3. PRESENT WITH EXPANSION FRAMES ONLY.

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM	MAY76	314419					
DESIGN	WJK MAY76	AUG76	315608					
CHECK	WJK MAY76	NOV76	315621					
APPROV	TES MAY76	JUL77	316710					YZ301
		JAN79	318589					

C

1750284 C

MODEM EQUALIZER PANEL

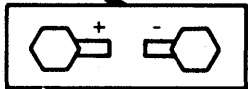
PART NO
1750284

LOGIC PG NO
YZ301

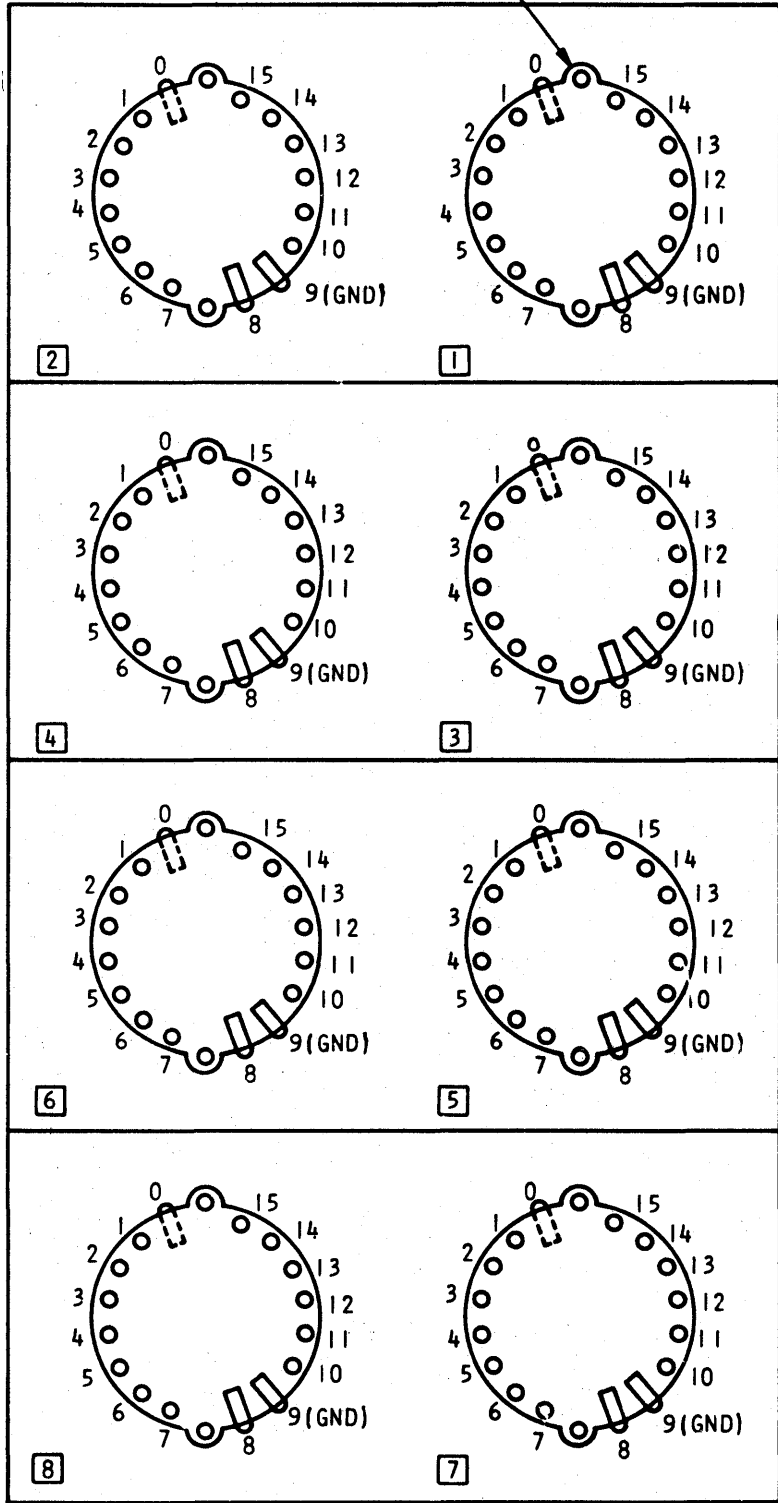
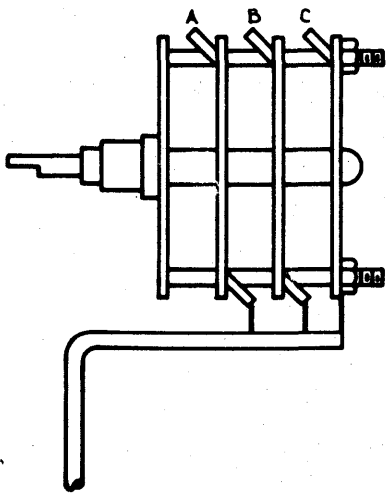
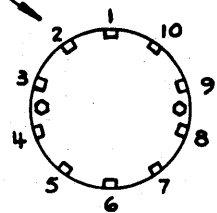
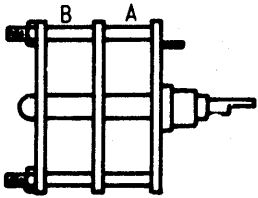
EQUALIZER SWITCH (TYP)

SHEET 14 OF 17

METER



MODEM SELECT SWITCH



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	COMPONENT LOCATION DWG			MAY76	314419	JAN 79	318589
DESIGN	WJK	MAY76	SHT 14 OF 17	AUG76	315608		
DETAIL				NOV76	315621		
CHECK	WJK	MAY76	CLASSIFICATION	JUL77	316710		
APPRO	TES	MAY76					
				MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
						LOGIC PG NO	
						YZ 301	

1750284

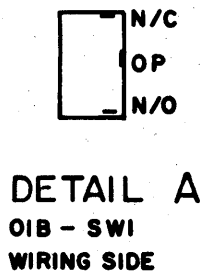
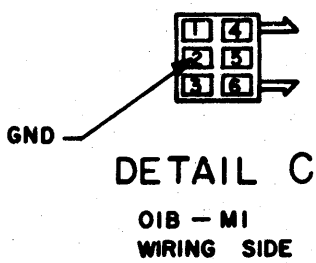
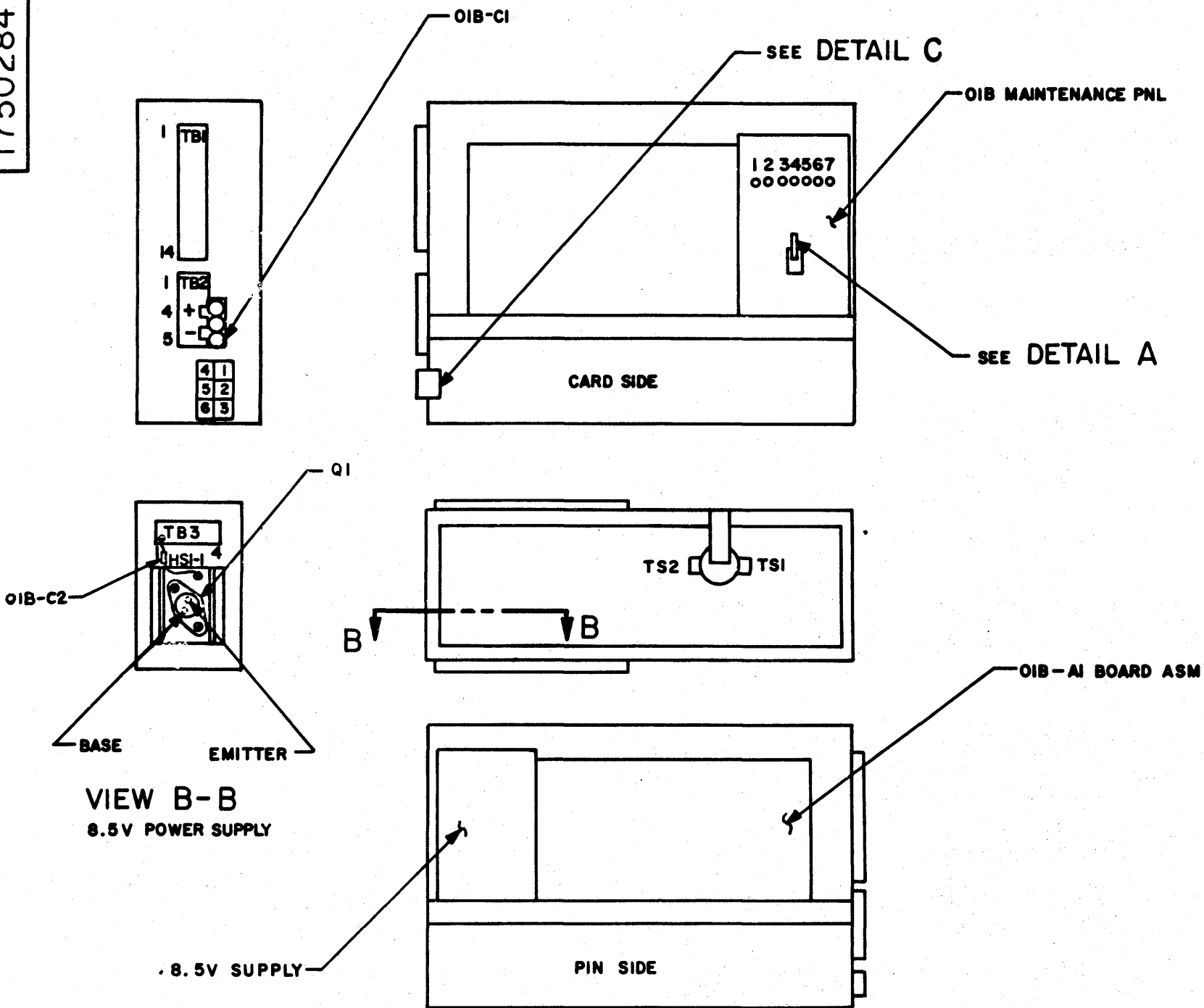
C

1750284 C

OIB GATE
FET MEMORY

PART NO
1750284

LOGIC PG NO
YZ-301



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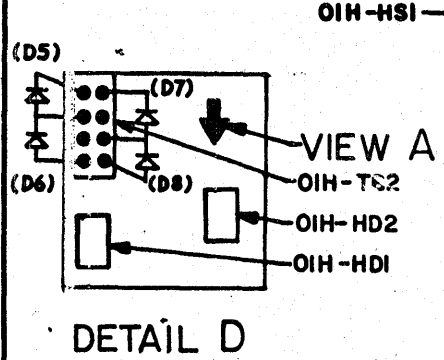
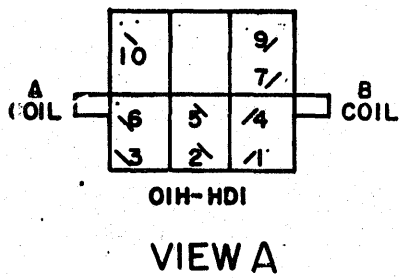
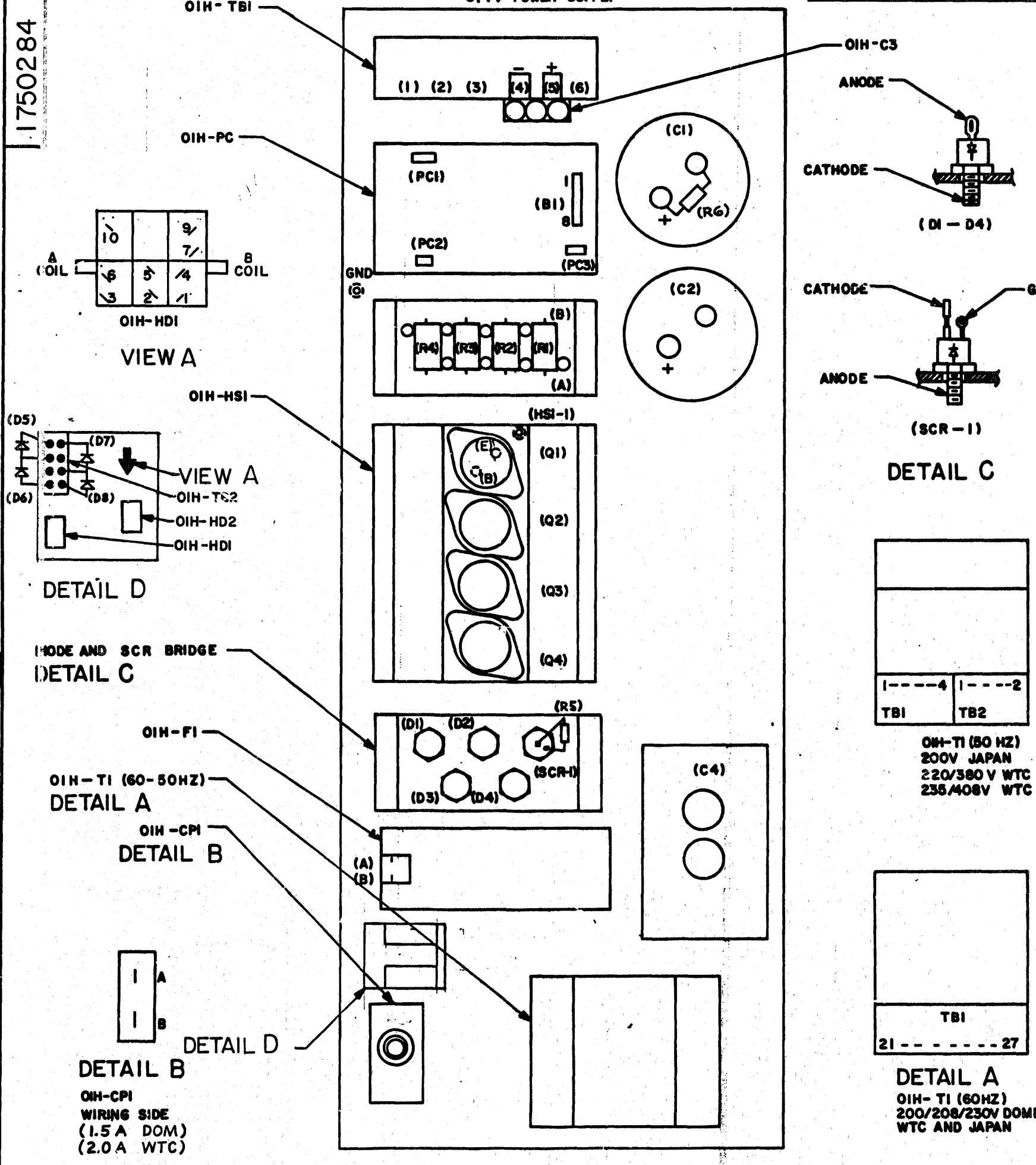
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEMS DIAGRAM			MAY76	314419	JAN 79	318589
COMPONENT LOCATION				AUG76	315608		
DESIGN	WJK	MAY76	SHT15 OF 17	NOV76	315621		
DETAIL				JUL77	316710		
CHECK	WJK	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TES	MAY76				LOGIC PG NO	
						YZ-301	

1750284 C

1750284 C

PART NO 1750284 LOGIC PG NO YZ-301

OIH
3.4V POWER SUPPLY

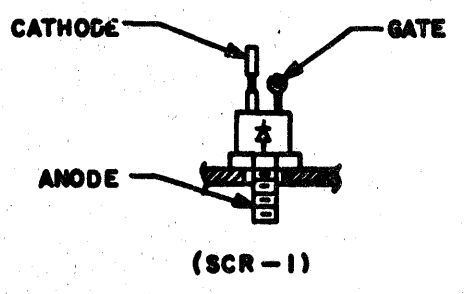
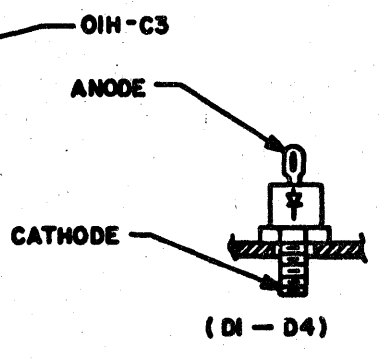


MODE AND SCR BRIDGE
DETAIL C

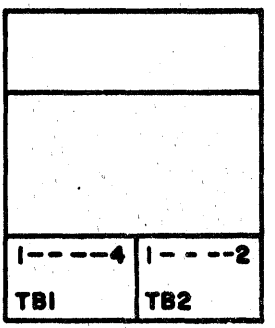
OIH-FI
OIH-TI (60-50HZ)
DETAIL A

OIH-CPI
DETAIL B

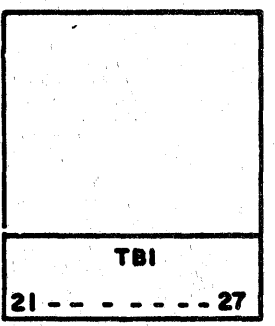
DETAIL B
OIH-CPI
WIRING SIDE
(1.5 A DOM)
(2.0 A WTC)



DETAIL C



OIH-TI (50 HZ)
200V JAPAN
220/380V WTC
235/408V WTC



DETAIL A
OIH-TI (60HZ)
200/208/230V DOMESTIC
WTC AND JAPAN

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEMS DIAGRAM			MAY76	314419	JAN 79	318589
COMPONENT LOCATION				AUG 76	315608		
DESIGN	WJK	MAY76	SHT 16 OF 17	NOV76	315621		
DETAIL				JUL 77	316710		
CHECK	WJK	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TES	MAY76				LOGIC PG NO YZ-301	

1750284 C

1750284 C

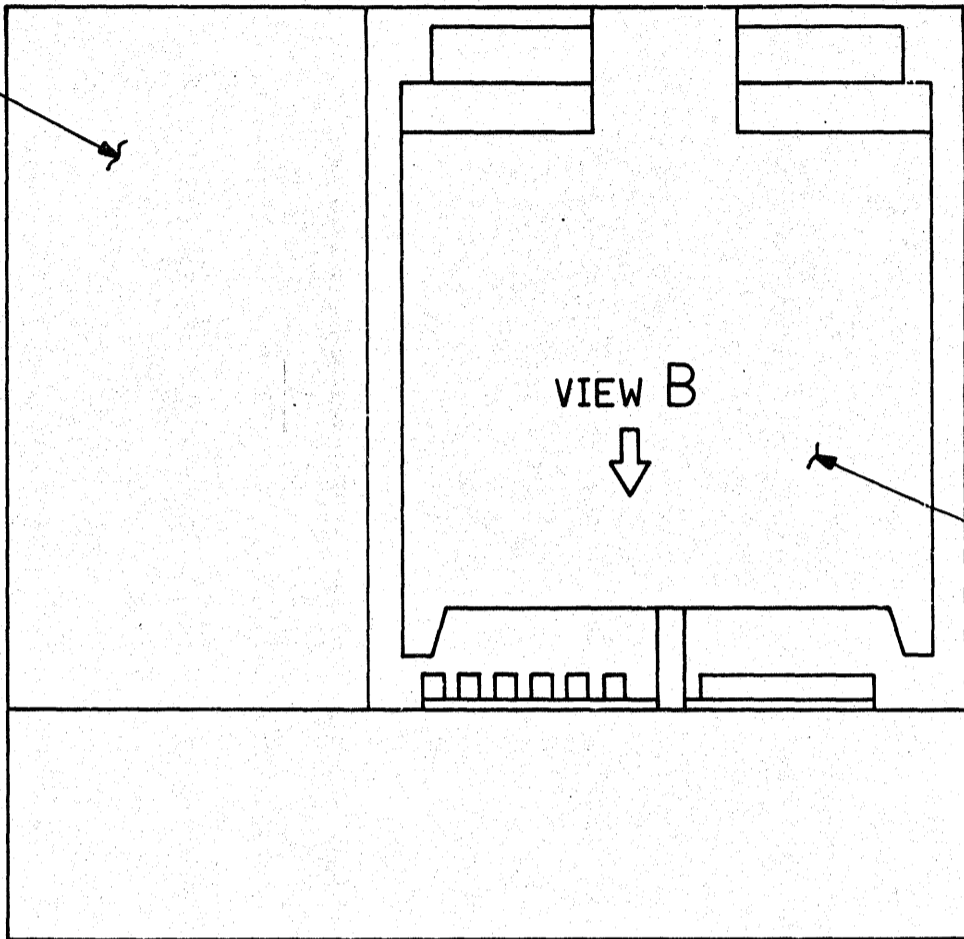
DISK FILE - 50/60HZ

PART NO
1750284

LOGIC PG NO
YZ-301

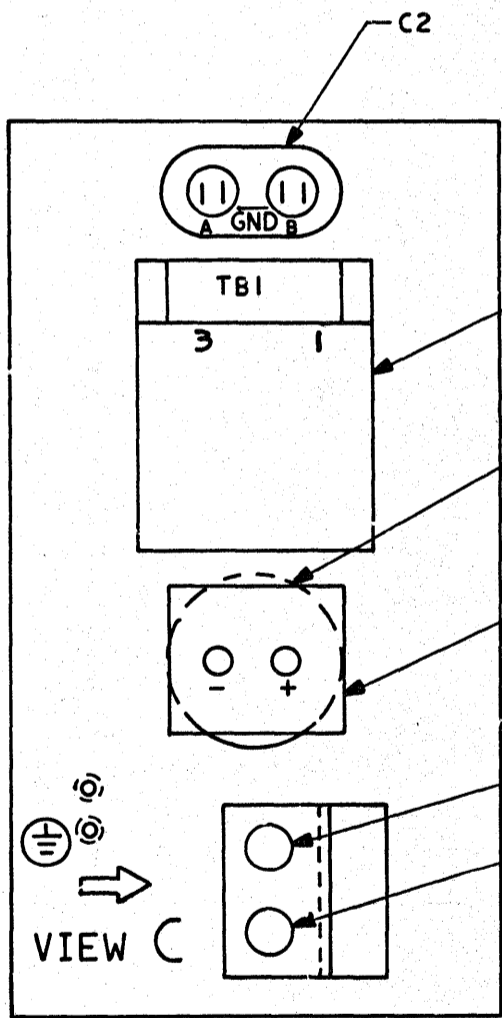
SHEET 17 OF 17

PSI-POWER SUPPLY
SEE DETAIL A

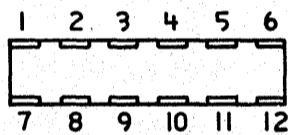


VIEW B
↓

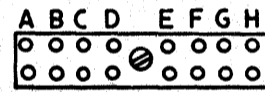
DISK FILE



DETAIL A
PSI POWER SUPPLY

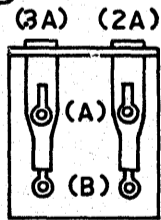


DISK GND BUS
VIEW B

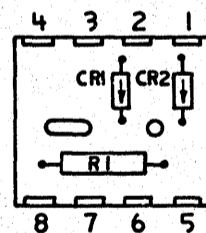


ECI

PCI
SEE DETAIL D



VIEW C



PCI
DETAIL D

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM			NOV 76	315621		
COMPONENT LOCATION				JUL 77	316710		
DESIGN	WJK	JUL76	SHT 17 OF 17	JAN 79	318589		
DETAIL	TS	AUG76					
CHECK	WJK	JUL76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	RW	JUL76	WJK JUL76			LOGIC PG NO	
						YZ-301	

1750284 C

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PART NO 1750282 LOGIC PG NO YZ321

CAPACITORS (CONTINUED ON SHEET 3)			
	LOGIC PAGE	VALUE	P/N
O1E-C1	YZ053	100UF.. 50V DC	223075
O1E-C2	YZ051	500UF.. 50V DC	2175473
O1E-C3	YZ055	3000UF.. 50V DC	5214162
O1E-C4	YZ056	100UF.. 50V	223075
	LOGIC PAGE	VALUE	P/N
OXF-C1	YZ071	120.000UF.. 15V	5796393
OXF-C2		120.000UF.. 15V	5796393
OXF-C3		120.000UF.. 15V	5796393
OXF-C4		120.000UF.. 15V	5796393
OXF-C5	YZ071	60.000UF.. 8V	5261247
OXF-C6		60.000UF.. 8V	5261247
OXF-C7	YZ071	120.000UF.. 15V	5796393
OXF-C8		60.000UF.. 8V	5261247
OXF-C9		60.000UF.. 8V	5261247
OXF-C12	YZ071	60.000UF.. 8V	5261247
OXF-C16	YZ073	100.000UF.. 6V	5709381
OXF-C17	YZ073	100.000UF.. 6V	5709381
OXF-C18			
OXF-C19	YZ073	100.000UF.. 6V	5709381
OXF-C20			
OXF-C21	YZ073	100.000UF.. 6V	5709381
O1A-C1	YZ075	15UF.. 35V	MOUNTED ON W-1
	LOGIC PAGE (S)	VALUE	P/N
PPB-C1	YZ051	18000UF	5239119
PPB-C2	YZ001.011.021.031	LINE FILTER, .01UF	5214060
PPB-C3	YZ001.011.021.031	LINE FILTER, .01UF	5214060
PPB-C4	YZ001.011.021.031	LINE FILTER, .01UF	5214060
PPB-C5	YZ011	LINE FILTER, .01UF (W.T. ONLY)	5214060
PPB-C6	YZ051	1500UF	2181753

EMC FILTERS			
	LOGIC PAGE	VALUE	P/N
FL-1, FL-2, FL-3, FL-4	YZ011	EMC FILTER, 50 AMP (GERMAN ONLY)	1770797

CIRCUIT BREAKERS/CIRCUIT PROTECTORS		
3705	LOGIC PAGES	REMARKS
PPB-CB1	YZ001.011.021.031	REFER TO CHART ON APPROPRIATE PAGE FOR VALUES OF THESE COMPONENTS
PPB-CB2	YZ001.011.021.031	
PPB-CP1	YZ003.013.023	
PPB-CP2	YZ003.013.023.033	
PPB-CP3	YZ003.013.023.033	
PPB-CP4	YZ003.013.023.033	
O1H-CP1	YZ075	5180999 (60HZ) 1.5A, 5180238 (50HZ) 2.0A

ALL FRAMES	LOGIC PAGE	RATING	P/N	REMARKS
OXF-CP2	YZ071	10A	2218599	-12 VOLT SUPPLY
OXF-CP3	YZ071	30A	5993191	+12 VOLT SUPPLY
OXF-CP4	YZ071	10A	2218599	+6 VOLT SUPPLY

CHOKES - TRANSFORMERS				
	LOCATION	PAGE	P/N	REMARKS
L1	BASE *	YZ073	5993112	-4V FILTER
L2	OXF	YZ071	5993113	+6V FILTER
L3	OXF	YZ071	5993113	-12V FILTER
L5	OXF	YZ071	5993180	+12V FILTER
L6	OXF	YZ073	5993114	-4V FILTER
T1	O1H	YZ075	4119631	+3.4V REGULATOR 50HZ
T1	O1H	YZ075	5708922	+3.4V REGULATOR 50HZ
T1	PPB	YZ003	826102	CONV. OUTLET - 60HZ. DOMESTIC
T1	PPB	YZ023	1859339	CONV. OUTLET - 60HZ. JAPAN
T2	PPB	YZ051	5993116	SEQUENCING CONTROL VOLTAGES
T3	BASE *	YZ071	5993111	+6, +12, -12, -30 VOLTS/LOGIC
T4	BASE *	YZ073	5993110	-4V LOGIC; AC-REF; USE-METER

* REFER TO YZ301, SHEET 1, FOR PHYSICAL LOCATION

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CONNECTORS - EDGE									
	a	b	c	d	e	f	g	h	
O1E-EC1	054	056	053	055	056	054	054	056	P/N 302090
O1E-EC2	055	055	053	056	055	053	056	056	P/N 302090
O1E-EC3	051	051	051	057	051	051	051	051	P/N 302090
O1E-EC4	054	054	054	057	054	054	054	057	P/N 302090
	1	2	3	4	5	6	7	8	(SEE YZ301 SHEET 13)
OP.PNL-EC1									P/N 302090
OP.PNL EC2									
OP.PNL EC3									
OP.PNL EC4									
OP.PNL EC5									
OP.PNL EC6									
OP.PNL EC7					051		051		
OP.PNL EC8			054	054		051	053	051	P/N 302090
	a	b	c	d	e	f	g	h	
OXG-EC1	071	071	071	071	073	073	055	073	P/N 302090
OXG-EC1		073		073	073	073	073	073	P/N 302090
OXG-EC2		073		073	073	073	073	073	P/N 302090
OXG-EC3		073		073	073	073	073	073	P/N 302090

NOTE: OP-PNL EDGE CONNECTORS ON AP-XXX LOGIC PAGES

CONNECTORS - EPO						
	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
EPOJ1-4	051	051	053	053	053	053
EPOJ-5	051	051				051

CONNECTORS - SHS O1E GATE									
CONNECTOR	1	2	3	4	5	6	7	8	"J" OR "K"
PIN A	056	056	056	056	051	057	051	053	
B	052	052	052	052	057	051	051	053	
C	052	052	052	052	053		051	055	
D	056	056	056	056	053	057		055	
E	056	056	056	056	054	051		055	
F	053	053	053	053	054	051		055	
G	056	056	056	056	053	053		055	
H	056	056	056	056	053	053		055	
J	056	056	056	056	053	053		055	
K	056	056	056	056	054	053		055	
L	056	056	056	056	054	053		053	
M	056	056	056	056	057	053		056	
N	055	055	055	055	053	053		055	
P	055	055	055	055	054	053		056	
Q	054	054	054	054	053	053		056	
R	054	054	054	054	053	053		055	

CONTACTORS			
60HZ/50HZ JAPAN (FOR 50HZ WT, SEE BELOW)			
MAIN FRAME (3705)		COIL ON	P/N
CONTACTS ON PAGES:			
PPB-K1	YZ003, 023, 033, 052	YZ051	5351162 EPO
PPB-K2	YZ003, 023, 033, 052	YZ052	5351162 FRM I A-C

CONTACTORS 50HZ WT			
MAIN FRAME (3705)		COIL ON	P/N
CONTACTS ON PAGES:			
PPB-K1	YZ013, 052	YZ 051	5351162 EPO
PPB-K2	YZ013, 052	YZ 052	5214578 FRM I A-C
PPB-K3	YZ013, 052	YZ 052	5214578 FRM I A-C

NOTES 1. ALL 3-DIGIT LOCATIONS SHOULD HAVE A "YZ-" PREFIX UNLESS OTHERWISE NOTES

IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	COMPONENTS - CROSS-REFERENCE -			MAY76	314419	AUG 77	313977
3705 II BASE FRAME				JUL76	315605	OCT 78	318894
DESIGN	TS	MAY76	SHT 1 OF 4	AUG76	315608		
DETAIL				NOV76	315621		
CHECK	TS	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TS	MAY76				LOGIC PG NO	
						YZ321	

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PART NO 1750282 LOGIC PG NO YZ321

DIODES/RECTIFIERS/TRANSISTORS (CONT ON SHEET 3)				
	LOGIC PAGE	IBM TYPE	P/N	REMARKS
O1E-D1	YZ053	AM	615354	O1E-RY6
O1E-D2	YZ055	AM	↑	OXF-HD1
O1E-D3	YZ056	AM	↑	O1E-RY2
O1E-D4	YZ055	AM	↑	OXF-HD2
O1E-D5	YZ056	AM	↑	O1E-RY12
O1E-D6	YZ054	AM	↑	O1E-RY11
O1E-D7	YZ054	AM	↑	O1E-RY10
O1E-D8	YZ051	AM	↑	O1E-RY9
O1E-D9	YZ053	AM	615354	
O1E-D10	YZ051	GB	369680	
O1E-D11	YZ056	AM	615354	
O1E-D12	YZ054	JB	2391158	
O1E-D13	YZ054	JB	2391158	
O1E-D17	YZ053	AM	615354	O1E-RY15 [2]
PPB-D1	YZ051	AM	5270652	3705 FRAME
PPB-D2	YZ052	AM	5270652	3705 FRAME
O1H-D5A78	YZ075		(2X)1749582	2 DIODES PER ASM
O1A-D1	YZ075		5214179	ON O1A-WI DIST. PNL
O1H-D1	YZ075		127324	
O1H-D2	YZ075		127324	
O1H-D3	YZ075		127324	
O1H-D4	YZ075		127324	
O1H-SCR1	YZ075		208975	
OXF-SCR7	YZ073		1770790	-4V
OXF-SCR8	YZ073		1770790	-4V
OXF-SCR9	YZ071		208975	+6V
OXF-SCR10	↑		↑	↑
OXF-SCR11	↑		↑	↑
OXF-SCR12	↑		↑	↑
OXF-SCR13	↑		↑	↑
OXF-SCR14	YZ071		208975	+6V
OXF-SCR15	YZ073		1770790	-4V
OXF-SCR16	YZ073		1770790	-4V
OXF-SCR17	YZ071		**208975/ 595256	-12V
OXF-SCR18	↑		↑	↑
OXF-SCR19	↑		↑	↑
OXF-SCR20	↑		↑	↑
OXF-SCR21	↑		↑	↑
OXF-SCR22	YZ071		**208975/ 595256	-12V
OXF-SCR23	YZ073		1770790	-4V
OXF-SCR24	YZ073		1770790	-4V
OXF-SCR25	YZ071		**5214104/ 595256	+12V
OXF-SCR26	↑		↑	↑
OXF-SCR27	↑		↑	↑
OXF-SCR28	↑		↑	↑
OXF-SCR29	↑		↑	↑
OXF-SCR30	YZ071		**5214104/ 595256	+12V
O1E-Q1	YZ051	108	369214	-6V POWER CONTROL
O1E-Q2	YZ053	188	369696	REMOTE PWR OFF [2]
O1E-DC1	YZ053	DIODE-CAPACITOR	1753436	O1E-RY6 SEE NOTE [3]

** ALWAYS USE PART NUMBER 595256 FOR REPLACEMENTS

RELAYS - WIRE CONTACT														
	COIL	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	P/N
O1E-RY-1	YZ056	054	054	055	055									769011
RY-2	YZ056	056	054	055	055									769011
RY-3	YZ053	054	053	054	053	053	053	053	053	053	055	054		769027
RY-6	YZ053	054	055	053	051	056	056	053						769017
RY-9	YZ051	053		053	053	053	053							769017
RY-10	YZ054		053	054	053									769011
RY-11	YZ054		054	053	053									769011
RY-12	YZ056	056	054	053	055									769011
RY-13	YZ055	055	054											769011
RY-15	YZ053	053	053											769011

RELAYS - HEAVY DUTY										
	COIL	-1	-2	-3	-4	-5	-6	-7		P/N
O1E-HD1	YZ055	052		051						2145046
OXF-HD1	YZ055	071	071	073						2145046
OXF-HD2	YZ055	071								2145046
O1H-HD1	YZ075					075	075			441092
O1H-HD2	YZ075				075		075			441092

RESISTORS (CONT ON SHEET 3)				
	LOGIC PAGE(S)	VALUE	P/N	REMARKS
O1A-R1	YZ075/077	3n, 25W	1770799	ASM WITH O1A-C1
OPS-R1	YZ073	330.1/2W	733693	EC7-3 TO EC7-6
O1E-R1	YZ054	100n, 25W	507142	
O1E-R2	YZ053	5.1K, 1/2W	317024	
O1E-R3	YZ053	25n, 5W	1770801	
O1E-R4	YZ051	10n, 10W	253181	
O1E-R5	YZ051	270n, 10W	2102582	
O1E-R6	YZ055	25n, 5W	1770801	
O1E-R7	YZ054	5.1K, 1/2W	317024	
O1E-R8	YZ054	5.1K, 1/2W	317024	
O1E-R9	YZ053	820n, 1/4W	217082	[2]
OX-R1	YZ071	4n, 25W	591465	SEE YZ301 SHEET 1
OX-R2	YZ071	25n, 25W	4117273	SEE YZ301 SHEET 1
OX-R3	YZ071	25n, 50W	4117273	SEE YZ301 SHEET 1
OXF-R6	YZ071	30n, 2W	589764	SEE YZ301 SHEET 6
OXF-R8	YZ073	30n, 2W	589764	
OXF-R9	YZ073	20n, 10W	124695	
OXF-R11	YZ071	30n, 2W	589764	
OXF-R12	YZ071	30n, 2W	589764	
OXF-R13	YZ071	30n, 2W	589764	
OXF-R14	YZ071	30n, 2W	589764	SEE YZ301 SHEET 6
PPB-R1				
PPB-R2	YZ001,011,021,031	1Mn, 1W	5318934	LINE FILTER
PPB-R3	YZ001,011,021,031	1Mn, 1W	5318934	LINE FILTER
PPB-R4	YZ001,011,021,031	1Mn, 1W	5318934	LINE FILTER
PPB-R5	YZ011	1Mn, 1W	5318934	LINE FILTER
PPB-R6	YZ051	50n, 50W	801615	SEE NOTE [7] ON YZ051
PPB-R7	YZ051	50n, 50W	801615	SEE NOTE [8] ON YZ051
PPB-R7	YZ051	250n, 25W	5261946	SEE NOTE [8] ON YZ051

NOTES: [1] NOT USED IN 3705 REMOTE
 [2] USED IN SYSTEMS WITH REMOTE POWER OFF FEATURE
 [3] O1E-DC1 REPLACES O1E-D1 ON 3705 II IN WORLD TRADE

MOTORS/BLOWERS				
	LOCATION	PAGE	P/N	VOLTAGE
DISK MOTOR	REMOTE HOUSING	YZ037		200/208/230V, 60HZ 200/240V, 50HZ
GATE FAN	OXA	YZ003, 005	2590224	208/230V, 60HZ DOMESTIC
GATE FAN	OXA	YZ013, 015	2590703	220/235/380/408V, 50HZ - W.T.
GATE FAN	OXA	YZ023, 025	2590224	200V, 60HZ, JAPAN
GATE FAN	OXA	YZ033, 035	2590703	200V, 50HZ, JAPAN
FET MEMORY FANS	O1B	YZ003	5357050	208/230V, 60HZ DOMESTIC
	O1B	YZ013	5357050	200V, 60HZ JAPAN
	O1B	YZ023	4120172	220/235/380/408V 50HZ W.T.
	O1B	YZ033	4120172	200V., 50HZ, JAPAN
HEAT SINK (2 EACH)	OXG	YZ003		208/230V, 60HZ, DOMESTIC
	OXG	YZ013		220/235/380/408V, 50HZ, W.T.
	OXG	YZ023		200V., 60HZ, JAPAN
	OXG	YZ033	5357050	200V., 50HZ, JAPAN
3.4V POWER	O1H	YZ075	1749636	ALL VOLTAGES

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	COMPONENTS - CROSS REFERENCE -			MAY 76	314419	AUG 77	313977
3705 II BASE FRAME				JUL 76	315605	OCT 78	318894
DESIGN	TES	MAY 76	SHT 2 OF 4	AUG 76	315608		
DETAIL				RAC	NOV 76	315621	
CHECK	TES	MAY 76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	TES	MAY 76				LOGIC PG NO	
						YZ321	

PART NO
1750282

LOGIC PG NO
YZ321

1750282 C

01D-AIA2

CABLE P/N 5993206

SOURCE	PIN	WIRE #	CIRCUIT	LOGIC PAGE
01-T4-TB2-4	B02	16	PHASE A - REF 1	YZ1118C1
01-T4-TB2-1	B03	17	PHASE A - REF C.T.	YZ1118C3
	B04	18	SPARE	
	B05	19	SPARE	
01-T4-TB2-6	B07	20	PHASE B - REF 1	YZ1118C5
01-T4-TB2-2	B08	21	PHASE B - REF C.T.	YZ1118C7
	B09	22	SPARE	
01-T4-TB2-13	B10	23	USE METER TRANSFORMER	YZ111FF2
OX-R1-C	B12	5	-4V SHUNT - LINE	YZ171AF2
OX-R1-D	B13	11	-4V SHUNT - LOAD	YZ171AF4
EC-7-1	D02	1	PHASE A SAMPLE PULSE	YZ111DE3
EC-7-2	D04	2	PHASE B SAMPLE PULSE	YZ111DE1
EC-8-1	D05	3	DRIVE METER	YZ111AH4
	D06	4	SPARE	
EC-7-4	D07	6	USE METER RETURN	YZ111FH6
EC-6-1	D09	7	PHASE B - INDICATORS	YZ111BD7
EC-6-8	D10	8	PHASE A - INDICATORS	YZ111BD5
01-T4-TB2-17	D11	13	PHASE C - REF 1	YZ111BD1
01-T4-TB2-3	D12	14	PHASE C - REF C.T.	YZ111BD3
	D13	15	SPARE	

01D-AID5

CABLE P/N 5993287

POS	PIN	WIRE #	CIRCUIT	LOGIC PAGE
01E-EC4-a	B02	13	POWER-OFF SW-B N/O	YZ171AG4
01E-EC3-a	B03	24	-6V DC (DISTRIBUTION)	YZ191AC4
01E-EC4-e	B04	15	POWER ON RESET CONTROLLED	YZ171AG2
	B05			
	B07			
	B08			
	B09			
01E-PI-F	B10	6	GND ON O/V O/C FAULT	YZ171BJ2
01E-PI-K	B12	9	RR1-1 SERIES STRING	YZ101GE4
01E-PI-L	B13	10	+24V 01E-J4L	YZ101BL2
01E-PI-M	D02	1	RR2-1 COMMON	YZ101EJ4
01E-PI-D	D04	2	RR2-2/RR3-2 COMMON	YZ101FL4
01E-PI-A	D05	3	+6V SENSE, RR3-2 PARALLEL	YZ101BL6
01E-PI-E	D06	4	-30V SENSE, RR2-2 PARALLEL	YZ101BL3
	D07			
01E-PI-G	D09	5	+24V 01E-J4G	YZ101BL5
01E-PI-H	D10	7	RR3-1 COMMON	YZ101EL4
01E-PI-J	D11	8	+24V 01E-J4J	YZ101BJ4
01E-EC3-e	D12	22	+30V INPUT TO +20V REGULATOR	YZ101AB2
01E-EC3-e	D13	23	+30V INPUT TO +20V REGULATOR	YZ101AB4
01E-EC1-H	D08	26	DC COMMON	YZ056

01D-AIE5

CABLE P/N 1749624

FROM	TO	CIRCUIT	LOGIC PAGE
01D-AIE5 D09	01B-AIV2 D09	* +E, +6.5 UV	YZ101
B06	B06	+E, -4 UV MAIN	YZ101
D10	D10	+E, -4 ± 12 UV	YZ101
D03	D03	GND FOR +12 SEQ. .	YZ161
B09	B09	GND FOR +6 SEQ. .	YZ195
D04	D04	** -E, +3.4 UV	YZ195
D05	D05	+E, 3.4 OV	YZ171
B04	B04	+E, SEQUENCING ERROR	YZ171
B08	B08	+E, +3.4 UV	YZ171
B02	B02	*E, -4 UV (IN 01B OR 01D)	YZ195
D06	D06	-E, +8.5 OV	YZ171
D07	D07	+E, +8.5 OV	YZ195
B05	B05	+E, ANY OV	YZ171
B07	B07	-6VDC	YZ191
B03	B03	+20 V DIST. TO 01B	YZ101
		* +E = +ERROR	
		** -E = -ERROR	

01D-AIA5

CABLE P/N 1749581

POS	PIN	WIRE #	CIRCUIT	LOGIC PAGE
	B02	1	-12V SENSE 01A-TB1-3	YZ101AH2
	B03			
	B04	2	-SCR17 CATHODE	YZ131FD2
	B05	3	-SCR18 CATHODE	YZ131FF2
	B07	4	-SCR19 CATHODE	YZ131FH2
	B08			
	B09	5	-SCR20 CATHODE	YZ131FH4
	B10	6	-SCR21 CATHODE	YZ131FF4
	B12	7	-SCR22 CATHODE	YZ131FD4
	B13			
	D02	T1	-12V COMMON 01A-W1-B	YZ101AH4
	D04	T2	+SCR17 CONTROL GATE	YZ131FD1
	D05	T3	+SCR18 CONTROL GATE	YZ131FF1
	D06			
	D07	T4	+SCR19 CONTROL GATE	YZ131FH1
	D09	T5	+SCR20 CONTROL GATE	YZ131FH3
	D10	T6	+SCR21 CONTROL GATE	YZ131FF3
	D11			
	D12	T7	+SCR22 CONTROL GATE	YZ131FD3
	D13			
			(7 TWISTED-PAIRS IN THIS CABLE)	

CAPACITORS (CONTINUED FROM SHEET 1)

	LOGIC PAGE	VALUE	P/N
OPS-C1	YZ073	.1UF	1770787
OPS-C2	YZ073	.1UF	1770787
01H-C1	YZ075	120,000 UF, 15V	5796393
01H-C2	YZ075	120,000 UF, 15V	5796393
01H-C3	YZ075	3,000 UF	1863157
01H-C4	YZ075	30 UF, 330 VAC	525817
01B-C1	YZ075	.850 UF	1749564
01B-C2	YZ075	.018 UF	1749627

DIODES/RECTIFIERS/TRANSISTORS (CONT. FROM SHEET 2)

01B-Q1	YZ075	380	2396629	
01H-Q1	YZ075	358	2391346	
01H-Q2	YZ075	358	2391346	
01H-Q3	YZ075	358	2391346	
01H-Q4	YZ075	358	2391346	

RESISTORS (CONT. FROM SHEET 2)

01H-R1	YZ075	.10n 12.5W	5214466	SEE YZ301 SHEET 16
01H-R2	YZ075	.10n 12.5W	5214466	
01H-R3	YZ075	.10n 12.5W	5214466	
01H-R4	YZ075	.10n 12.5W	5214466	
01H-R5	YZ075	430n .25W	216437	
01H-R6	YZ075	50n 5W	626577	SEE YZ301 SHEET 16

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	3705 II BASE FRAME	CABLE CROSS REF		MAY76	314419	AUG 77	313977
				JUL76	315605	OCT78	318894
DESIGN	YES	MAY76	SHT 3 OF 4	AUG76	315608		
DETAIL				NOV76	315621		
CHECK	YES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	YES	MAY76				LOGIC PG NO	
						YZ321	

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PART NO
1750282

LOGIC PG NO
YZ321

01D-A1B4
CABLE P/N 1749581

POS	PIN	WIRE #	CIRCUIT	LOGIC PAGE
	B02	8	-4V SENSE 01A-TB1-13	YZ101AD2
	B03			
HS-EC1-d	B04	9	-SCR7 CATHODE	YZ121FD2
HS-EC2-d	B05	10	-SCR15 CATHODE	YZ121FF2
HS-EC3-d	B07	11	-SCR23 CATHODE	YZ121FH2
	B08			
HS-EC1-f	B09	12	-SCR8 CATHODE	YZ121FD4
HS-EC2-f	B10	13	SCR16 CATHODE	YZ121FF4
HS-EC3-f	B12	14	-SCR24 CATHODE	YZ121FH4
	B13			
	D02	T8	-4V COMMON 01A-W1-B	YZ101AD4
HS-EC1-b	D04	T9	+SCR7 CONTROL GATE	YZ121FD1
HS-EC2-b	D05	T10	+SCR15 CONTROL GATE	YZ121FF1
	D06			
HS-EC3-b	D07	T11	+SCR23 CONTROL GATE	YZ121FH1
HS-EC1-e	D09	T12	+SCR8 CONTROL GATE	YZ121FD3
HS-EC2-e	D10	T13	+SCR16 CONTROL GATE	YZ121FF3
	D11			
HS-EC3-e	D12	T14	+SCR24 CONTROL GATE	YZ121FH3
	D13			
(7 TWISTED - PAIRS IN THIS CABLE)				

01D-A1B5
CABLE P/N 1749581

POS	PIN	WIRE #	CIRCUIT	LOGIC PAGE
OXF-EC1-e	B02	15	-4V 0/V SENSE CHOKE L6	YZ121AD4
	B03			
EC1-d	B04	16	+6V 0/V SENSE OXF-EC1-D	YZ151AF2
EC1-c	B05	17	+12V 0/V SENSE CHOKE L5	YZ161AF2
EC1-b	B07	18	-12V 0/V SENSE OXF-EC1-B	YZ131AD2
	B08			
	B09			
	B10			
	B12	19	+6V SENSE MEM TB1-12	YZ101AM2
	B13			
	D02	T15	-4V 0/V SENSE RETURN OXF-EC1-E	YZ121AD6
	D04	T16	+6V 0/V SENSE RETURN OXF-EC1-F	YZ151AF4
	D05	T17	+12V 0/V SENSE RETURN OXF-EC1-G	YZ161AF4
	D06			
	D07	T18	-12V 0/V SENSE RETURN OXF-EC1-H	YZ131AD4
	D09	T19	-30V 0/V SENSE RETURN OXF-EC1-H	YZ141AD4
	D10			
	D11			
	D12			
	D13			
(5 TWISTED - PAIRS IN THIS CABLE)				

01D-A1C4
CABLE P/N 1749581

POS	PIN	WIRE #	CIRCUIT	LOGIC PAGE
	B02	20	+6V SENSE MEM. TB1-12	YZ101AK2
	B03			
	B04	21	-SCR9 CATHODE	YZ151FD2
	B05	22	-SCR10 CATHODE	YZ151FF2
	B07	23	-SCR11 CATHODE	YZ151FH2
	B08			
	B09	24	-SCR12 CATHODE	YZ151FH4
	B10	25	-SCR13 CATHODE	YZ151FF4
	B12	26	-SCR14 CATHODE	YZ151FD4
	B13			
	D02	T20	W1-5	YZ101AK4
	D04	T21	+SCR9 CONTROL GATE	YZ151FD1
	D05	T22	+SCR10 CONTROL GATE	YZ151FF1
	D06			
	D07	T23	+SCR11 CONTROL GATE	YZ151FH1
	D09	T24	+SCR12 CONTROL GATE	YZ151FH3
	D10	T25	+SCR13 CONTROL GATE	YZ151FF3
	D11			
	D12	T26	+SCR14 CONTROL GATE	YZ151FD3
	D13			
(7 TWISTED - PAIRS IN THIS CABLE)				

01D-A1C5
CABLE P/N 1749581

POS	PIN	WIRE #	CIRCUIT	LOGIC PAGE
	B02	27	+12V SENSE 01A-TB1-14	YZ101AF2
	B03			
	B04	28	-SCR25 CATHODE	YZ161FD2
	B05	29	-SCR26 CATHODE	YZ161FF2
	B07	30	-SCR27 CATHODE	YZ161FH2
	B08			
	B09	31	-SCR28 CATHODE	YZ161FH4
	B10	32	-SCR29 CATHODE	YZ161FF4
	B12	33	-SCR30 CATHODE	YZ161FD4
	B13			
	D02	T27	+12V COMMON 01A-W1-B	YZ101AF4
	D04	T28	+SCR25 CONTROL GATE	YZ161FD1
	D05	T29	+SCR26 CONTROL GATE	YZ161FF1
	D06			
	D07	T30	+SCR27 CONTROL GATE	YZ161FH1
	D09	T31	+SCR28 CONTROL GATE	YZ161FH3
	D10	T32	+SCR29 CONTROL GATE	YZ161FF3
	D11			
	D12	T33	+SCR30 CONTROL GATE	YZ161FD3
	D13			
(7 TWISTED - PAIRS IN THIS CABLE)				

DC SIGNAL GROUND TO FRAME GROUND JUMPERS FOR BOARDS OXA-A1,A2,A3,A4,B1.		
B2,B3,B4 ON EACH FRAME		
FROM	TO	PART NUMBER
A2 D08	FRAME	1770813
A5 D08	FRAME	1770813
F1 D13	FRAME	1770813
Q1 E13	FRAME	1770813
V2 D08	FRAME	1770813
V5 D08	FRAME	1770813
Q6 B02	FRAME	1770813
F6 I02	FRAME	1770813

DC SIGNAL GROUND TO FRAME GROUND JUMPERS FOR 01B (FET) BOARD		
FROM	TO	PART NUMBER
A2 - D08	FRAME GND	1770813
A5 - D08	↑	↑
F1 - D13	↑	↑
Q1 - E13	↑	↑
Q6 - B02	↑	↑
F6 - E02	↑	↑
U1 - A13	↓	↓
T6 - C02	FRAME GND	1770813

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	CABLE CROSS REF			MAY76	314419	AUG 77	313977
	3705 II BASE FRAME			JUL 76	315605	OCT 78	318894
DESIGN	YES	MAY76	SHT 4 OF 4	AUG 76	315608		
DETAIL				NOV 76	316621		
CHECK	YES	MAY76	CLASSIFICATION	MUST CONFORM TO ENG SPEC		LOGIC PG NO	
APPRO	YES	MAY76				YZ321	

1750282

C

1750285 C

INSTRUCTIONS FOR MACHINE FEATURE CONFIGURATION CHART

THE PURPOSE OF THE MACHINE FEATURE CONFIGURATION CHART IS TO PROVIDE A MEANS OF RECORDING A DETAILED 3705 CONFIGURATION FOR USE BY THE CE, AND FOR SUBMISSION WITH A MES ORDER TO INDICATE BOTH THE CURRENT MACHINE CONFIGURATION AND THE NEW MES'D CONFIGURATION. TO FACILITATE ITS USE, THE CHART IS DIVIDED AT THE MIDDLE AND CAN BE REPRODUCED IN TWO PASSES THROUGH A 8 1/2 x 11 COPIER.

THE SHADED AREAS ARE PRIMARILY FOR USE OF THE PLANT MES DEPARTMENT. THE CROSSED-OUT AREAS INDICATE AN INVALID ENTRY AREA. ONLY THE INSTALLED COLUMN SHOULD BE USED - THE CURRENT ROW WILL INDICATE THE CURRENT MACHINE CONFIGURATION; THE NEW ROW CAN BE USED BY THE DP MARKETING REPRESENTATIVE TO INDICATE THE NEW CONFIGURATION AFTER AN MES.

SPECIFY CODES (FOUR DIGIT NUMBER STARTING WITH A 9) ARE USED TO IDENTIFY ITEMS SUCH AS COLOR AND VOLTAGE AND TO SHOW BOTH TYPE AND LOCATION IN THE LIB TYPE SECTION. THE LINE SET TYPE (E.G., IA, 4B) IS ENTERED IN THE LINE SET SECTION IN THE APPROPRIATE PARTITION BLOCK. THE NECESSARY SPECIFY CODES AND OTHER INFORMATION ARE GIVEN BELOW. THE LINE SET FEATURE CODES ARE GIVEN FOR REFERENCE.

MODEL NUMBER AND MEMORY SIZES

3705-I		3705-II	
MODEL	CORE STORAGE	MODEL	FET STORAGE
A1, B1, C1, D1	16K	E1, F1, G1, H1	32K
A2, B2, C2, D2	48K	E2, F2, G2, H2	64K
B3, C3, D3	80K	E3, F3, G3, H3	96K
B4, C4, D4	112K	E4, F4, G4, H4	128K
C5, D5	144K	E5, F5, G5, H5	160K
C6, D6	176K	E6, F6, G6, H6	192K
D7	208K	E7, F7, G7, H7	224K
D8	240K	E8, F8, G8, H8	256K

VOLTAGE - SPECIFY CODE

208V	9903
230V	9905

COLOR - SPECIFY CODE

RED	9041
YELLOW	9042
BLUE	9043
GREY	9045
WHITE	9046

ADDRESS SUBSTITUTION/HIGH SPEED SELECT-SPECIFY CODE

	ADDRESS SUBSTITUTION	HIGH SPEED SELECT
BLOCK INSTALLATION OF LINE SET IN PARTITION 1		9011
BLOCK INSTALLATION OF LINE SET IN PARTITION 2		9012
BLOCK INSTALLATION OF LINE SET IN PARTITION 3		9013
BLOCK INSTALLATION OF LINE SET IN PARTITION 4		9014
BLOCK INSTALLATION OF LINE SET IN PARTITION 5	9004	9015
BLOCK INSTALLATION OF LINE SET IN PARTITION 6	9003	9016
BLOCK INSTALLATION OF LINE SET IN PARTITION 7	9002	9017
BLOCK INSTALLATION OF LINE SET IN PARTITION 8	9001	9018

BUSINESS MACHINE CLOCK - SPECIFY CODE

SPEED BPS	
45.5	9601
50.0	9613
56.8	9602
74.2	9603
75.0	9604
110.0	9605
134.5	9606
150.0	9611
300.0	9612
600.0	9607
950.0	9614
1200.0	9608
2000.0	9609
2400.0	9610
150,600,1200	9615 (CS-3 ONLY)

LIB TYPE/POSITION - SPECIFY CODE

LIB TYPE	POSITION					
	1	2	3	4	5	6
1	9311	9312	9313	9314	9315	9316
2	9321	9322	9323	9324	9325	9326
3	9331	9332	9333	9334	9335	9336
4	9341	9342	9343	9344	9345	9346
5	9351	9352	9353	9354	---	---
6	9361	9362	9363	9364	9365	9366
7	9371	9372	9373	9374	9375	9376
8	9381	9382	9383	9384	9385	9386
9	9391	9392	9393	9394	9395	9396
10	9401	9402	9403	9404	9405	9406
11	9411	9412	9413	9414	---	---
12	9421	9422	9423	9424	9425	9426

LINE SET TYPES AND FEATURE CODES

LINE SET	FEATURE CODE	LINE SET	FEATURE CODE
IA	4711	4A	4741
IB	4712	4B	4742
IC	4713	4C	4743
ID	4714	5A	4751
IE	4715	5B	4752
IF	4716	6A	4761
IG	4717	8A	4781
IH	4718	8B	4782
IJ	4719	9A	4791
IK	2944	10A	4784
IS	4720	11A	4754
IT	4725	11B	4755
IU	4726	12A	4785
2A	4721	12B	4786
3A	4731		
3B	4732		

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				JUN 76	314419		
INSTRUCTIONS				NOV76	315621		
DESIGN	J V	JUN 76	SHT 1 OF 1				
DETAIL							
CHECK	WJK	JUN 76	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	BJ	JUN 76				YZ996	

1750285 C

MES # SERIAL OR ORDER #		FRAME 1				FRAME 2				FRAME 3				FRAME 4			
VOLTAGE SPECIFY _____ COLOR SPECIFY _____ MODEL # MEMORY SIZE _____ CURRENT _____ NEW _____		INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN
REMOTE POWER OFF	6250					X	X	X		X	X	X		X	X	X	
REMOTE PROGRAM LOAD	6260																
EXTENDED ENVIRONMENT	3620																
INTERNAL AIR CIRCULATION	4670																
	4671																
UNIT PROTECTION	8510					X	X	X		X	X	X		X	X	X	
CHAN ADAPT TYPE 1	1541					X	X	X		X	X	X		X	X	X	
TYPE 2	1542																
TYPE 3	1543																
TYPE 4	1544																
TWO CHANNEL SWITCH	8002																
COMM SCANNER TYPE 1	1641					X	X	X		X	X	X		X	X	X	
TYPE 2	1642																
TYPE 3	1643																
ATTACHMENT BASE TYPE 1	1301					X	X	X		X	X	X		X	X	X	
TYPE 2	1302																
ADDR SUB/HI SPD SEL-SPECIFY CODE																	
BUSINESS MACHINE CLOCK	4650	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4
(ENTER SPECIFY) CURRENT CODE NEW																	
LIB TYPE *		FRAME 1				FRAME 2				FRAME 3				FRAME 4			
LIB POSITION 1 CURRENT NEW		INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN
(ENTER SPECIFY) CODE 2 CURRENT NEW																	
3 CURRENT NEW																	
4 CURRENT NEW																	
5 CURRENT NEW		X	X	X													
6 CURRENT NEW		X	X	X													
* SEE MAXIMUM LIB RESTRICTIONS FOR COMM SCANNER TYPES IN SALES MANUAL LINE SETS		PART 0-1	PART 2-3	PART 4-5	PART 6-7	PART 8-9	PART A-B	PART C-D	PART E-F	PART 0-1	PART 2-3	PART 4-5	PART 6-7	PART 8-9	PART A-B	PART C-D	PART E-F
LIB POSITION 1 CURRENT NEW																	
(ENTER LINE) SET TYPE 2 CURRENT NEW																	
3 CURRENT NEW																	
4 CURRENT NEW																	
5 CURRENT NEW		X	X	X	X												
6 CURRENT NEW		X	X	X	X												
LIST RPQ NUMBERS INSTALLED																	
		DATE OF LAST ENTRY _____															

MES # _____ SERIAL OR ORDER # _____																
VOLTAGE SPECIFY _____ COLOR SPECIFY _____ MODEL # _____ MEMORY SIZE _____ CURRENT _____ NEW _____	FRAME 1				FRAME 2				FRAME 3				FRAME 4			
	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN
REMOTE POWER OFF 6250																
REMOTE PROGRAM LOAD 6260																
EXTENDED ENVIRONMENT 3620																
INTERNAL AIR CIRCULATION 4670																
UNIT PROTECTION 8510																
CHAN ADAPT TYPE 1 1541																
TYPE 2 1542																
TYPE 3 1543																
TYPE 4 1544																
TWO CHANNEL SWITCH 8002																
COMM SCANNER TYPE 1 1641																
TYPE 2 1642																
TYPE 3 1643																
ATTACHMENT BASE TYPE 1 1301																
TYPE 2 1302																
ADDR SUB/HI SPD SEL-SPECIFY CODE																
BUSINESS MACHINE CLOCK 4650	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4
(ENTER SPECIFY) CURRENT NEW																
LIB TYPE *	FRAME 1				FRAME 2				FRAME 3				FRAME 4			
	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN
LIB POSITION 1 CURRENT NEW																
(ENTER SPECIFY) CODE 2 CURRENT NEW																
3 CURRENT NEW																
4 CURRENT NEW																
5 CURRENT NEW																
6 CURRENT NEW																
* SEE MAXIMUM LIB RESTRICTIONS FOR COMM SCANNER TYPES IN SALES MANUAL LINE SETS	PART 0-1	PART 2-3	PART 4-5	PART 6-7	PART 8-9	PART A-B	PART C-D	PART E-F	PART 0-1	PART 2-3	PART 4-5	PART 6-7	PART 8-9	PART A-B	PART C-D	PART E-F
LIB POSITION 1 CURRENT NEW																
(ENTER LINE) SET TYPE 2 CURRENT NEW																
3 CURRENT NEW																
4 CURRENT NEW																
5 CURRENT NEW																
6 CURRENT NEW																
LIST RPQ NUMBERS INSTALLED																
	DATE OF LAST ENTRY _____															

MES # _____ SERIAL OR ORDER # _____		FRAME 1				FRAME 2				FRAME 3				FRAME 4			
VOLTAGE SPECIFY _____ COLOR SPECIFY _____ MODEL # _____ MEMORY SIZE _____ CURRENT _____ NEW _____		INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN
REMOTE POWER OFF	6250					X	X	X		X	X	X		X	X	X	
REMOTE PROGRAM LOAD	6260																
EXTENDED ENVIRONMENT	3620																
INTERNAL AIR CIRCULATION	4670																
	4671																
UNIT PROTECTION	8510					X	X	X		X	X	X		X	X	X	
CHAN ADAPT TYPE 1	1541					X	X	X		X	X	X		X	X	X	
TYPE 2	1542																
TYPE 3	1543																
TYPE 4	1544																
TWO CHANNEL SWITCH	8002																
COMM SCANNER TYPE 1	1641					X	X	X		X	X	X		X	X	X	
TYPE 2	1642																
TYPE 3	1643																
ATTACHMENT BASE TYPE 1	1301					X	X	X		X	X	X		X	X	X	
TYPE 2	1302																
ADDR SUB/HI SPD SEL-SPECIFY CODE																	
BUSINESS MACHINE CLOCK	4650	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4	OSC1	OSC2	OSC3	OSC4
(ENTER SPECIFY) CURRENT CODE NEW																	
LIB TYPE *		FRAME 1				FRAME 2				FRAME 3				FRAME 4			
LIB POSITION 1 CURRENT NEW		INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN	INSTALLED	ADD	REMOVE	DO NOT USE THIS COLUMN
(ENTER SPECIFY) CODE 2 CURRENT NEW																	
3 CURRENT NEW																	
4 CURRENT NEW																	
5 CURRENT NEW		X	X	X													
6 CURRENT NEW		X	X	X													
* SEE MAXIMUM LIB RESTRICTIONS FOR COMM SCANNER TYPES IN SALES MANUAL LINE SETS		PART 0-1	PART 2-3	PART 4-5	PART 6-7	PART 8-9	PART A-B	PART C-D	PART E-F	PART 0-1	PART 2-3	PART 4-5	PART 6-7	PART 8-9	PART A-B	PART C-D	PART E-F
LIB POSITION 1 CURRENT NEW																	
(ENTER LINE) SET TYPE 2 CURRENT NEW																	
3 CURRENT NEW																	
4 CURRENT NEW																	
5 CURRENT NEW		X	X	X													
6 CURRENT NEW		X	X	X													
RPQ NUMBERS INSTALLED		DATE OF LAST ENTRY _____															