

IBM 3705-80 MACHINE INSTALLATION INSTRUCTIONS

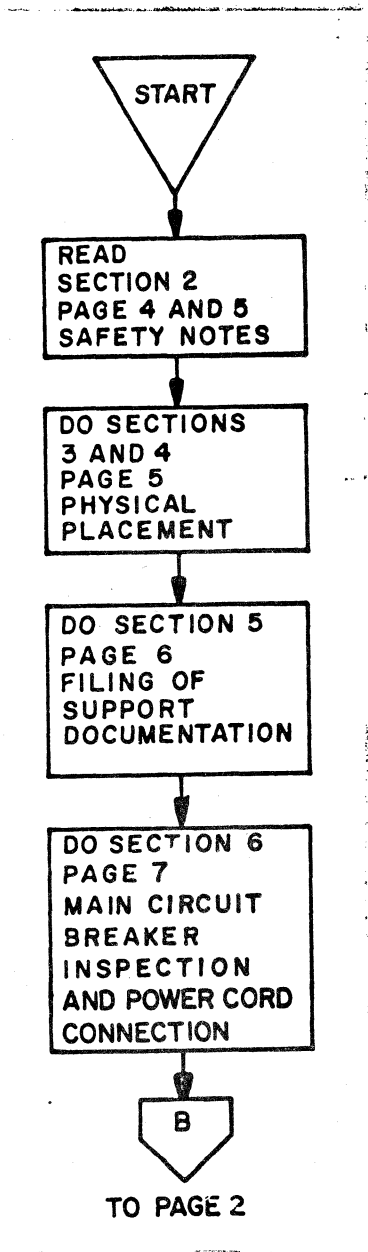
THE YZ800 PAGES PROVIDE INSTRUCTIONS FOR INSTALLING A 3705-80 SUBSYSTEM AND INCLUDE ONLY THOSE ITEMS WHICH ARE NOT PREINSTALLED BY THE FACTORY. PRIOR TO INSTALLATION OF THE 3705-80, THE SYSTEM/360 OR SYSTEM/370 SYSTEMS INSTALLATION INSTRUCTIONS ISSUED FOR THE PARTICULAR SYSTEM SHOULD BE CONSULTED. THE 3705-80 COMMUNICATIONS CONTROLLER THEORY-MAINTENANCE MANUAL, VOLUME I (FORM NUMBER SY27-0208), PROVIDES INFORMATION FOR CONFIGURING AND OPERATING THE 3705-80 DIAGNOSTIC PROGRAMS AND 3705-80 PROBLEM DETERMINATION MAPS. READ THE NOTES BELOW AND THEN PROCEED WITH THE INSTALLATION, PER THE FLOW CHART BELOW.

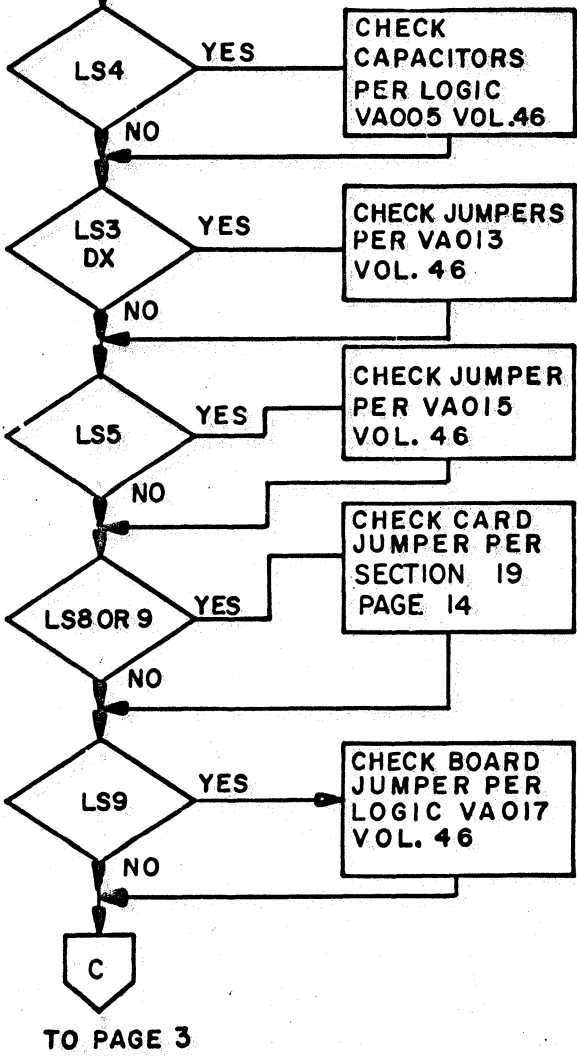
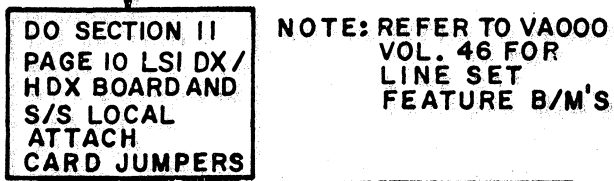
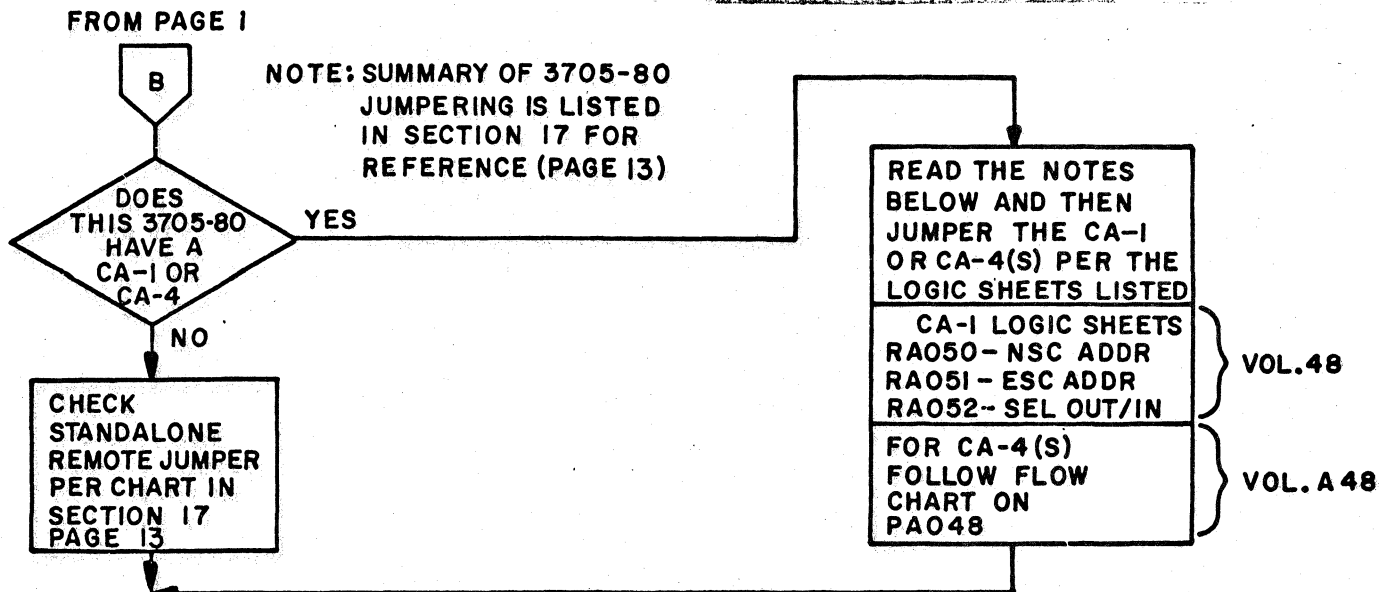
NOTE 1: FOR DOMESTIC AND EMEA COUNTRIES A PREPUNCHED CDS IS INCLUDED IN THE SHIPPING GROUP FOR A 3705-80 WITH A CA-1 OR CA-4. SOME ADDITIONAL INFORMATION MUST BE PUNCHED INTO THE DECK, PER THESE MACHINE INSTALLATION INSTRUCTIONS.

NOTE 2: THE DIAGNOSTICS MUST BE AT RELEASE LEVEL 12.2 OR HIGHER IF CA-1 FACTORY B/M 1856419 IS INSTALLED ON THIS 3705-80 OR RELEASE LEVEL 12.4 OR HIGHER IF CA-4 FACTORY FEATURE B/M 5153914 IS INSTALLED. A DIAGNOSTIC TAPE AND MLM VOL. I (SY27-0208) HAVE BEEN INCLUDED WITH THE SHIP GROUP, IF THE DIAGNOSTIC RELEASE LEVEL REQUIRED IS NOT YET AVAILABLE.

NOTE 3: A REFERENCE DRAWING FOR WORLD TRADE DELTA TO WYE FIELD VOLTAGE CONVERSIONS IS INCLUDED ON PAGE 15 AND FOR WYE TO DELTA CONVERSIONS ON PAGE 16.

1.0 INSTALLATION FLOW CHART:





CA FEATURE B/M'S

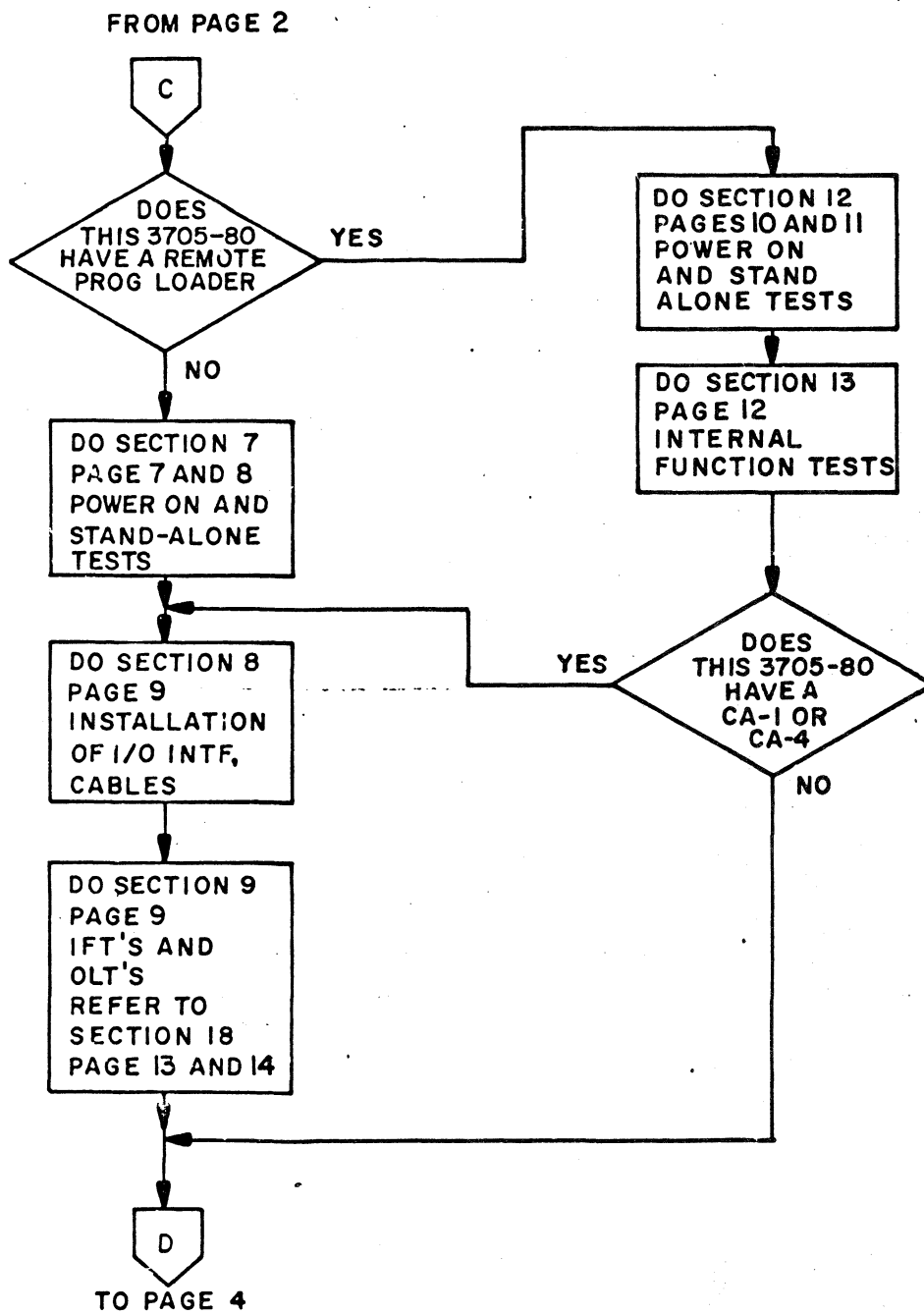
FEAT	3705-80		BOARD
	INTF. A	INTF. B	
CA1	1856419	5993351	O1A-A4
CA4	5153914	1648351	O1A-A4
CA4	5153915	N/A	O1A-B1

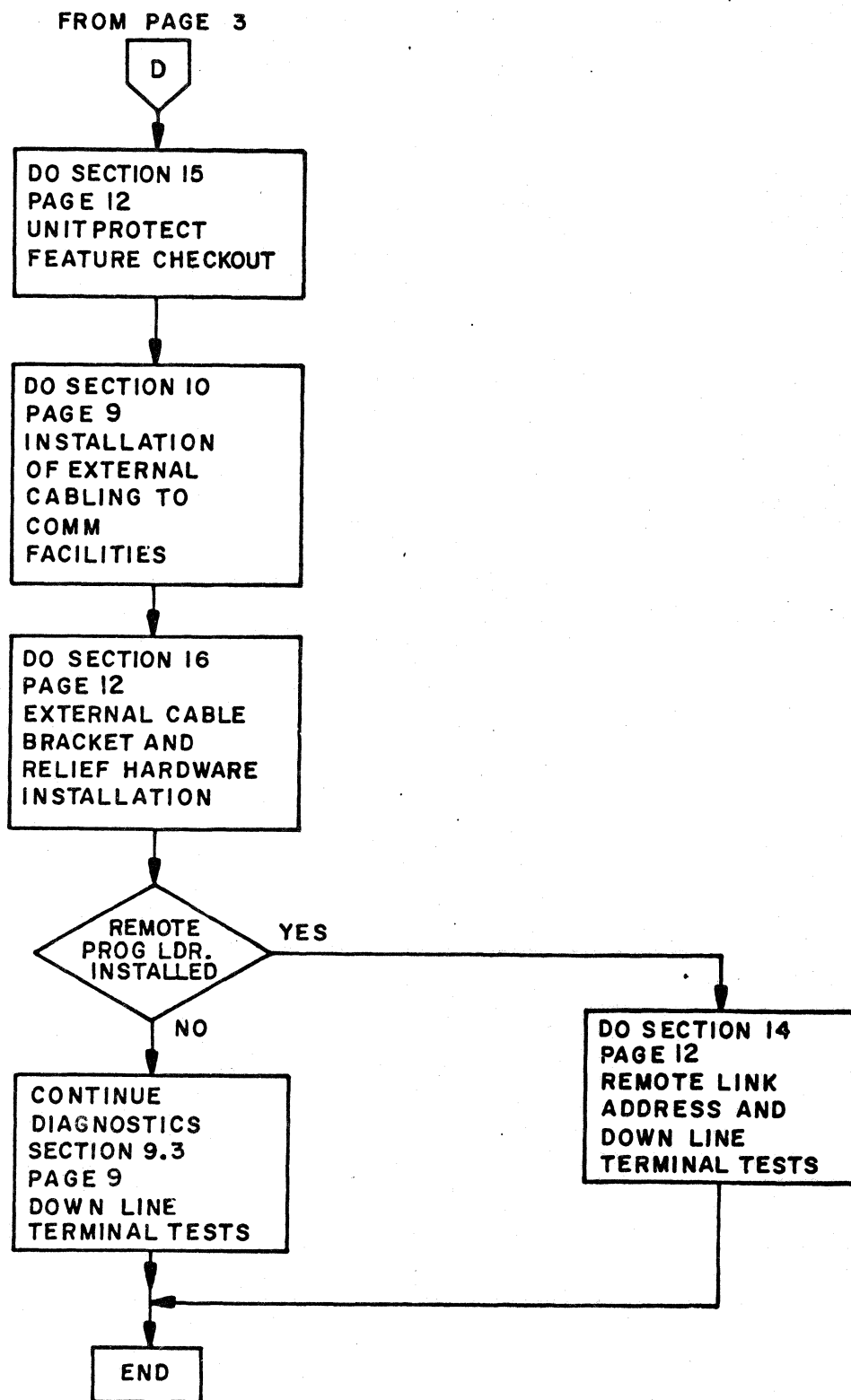
CHANNEL ADAPTER GENERAL NOTES

1. THE FACTORY JUMPERING OF THE NSC AND ESC ADDRESSES MAY NOT MATCH YOUR MACHINE REQUIREMENTS. REJUMPER THE NSC ADDRESS, AS REQUIRED, AND TO PREVENT MISJUMPERING, REMOVE ALL ESC ADDRESS JUMPERS PRESENTLY INSTALLED AND REJUMPER THE ESC RANGE ACCORDING TO THE APPLICABLE CA-1 OR CA-4 LOGIC SHEET.

AN EXAMPLE OF NSC JUMPERING:

NSC ADDRESS 48: NO JUMPER FOR BITS 2, 4 AND P, JUMPER REMAINING BITS.
2. ALL 3705-80 CHANNEL ADAPTER ADDRESSES MUST BE PLUGGED AS UNSHARED UCW'S AT THE HOST PROCESSOR.
3. WHEN COMPUTING THE ESC ADDRESS RANGE, ALL LINES DO NOT REQUIRE TWO ADDRESSES. SEE 3705-80 FETMM PAGE C-000 (MLM VOL. II) FOR DETAILS.
4. IF NCP WILL BE THE ONLY 3705-80 PROGRAM (EP/PEP NOT BEING USED), JUMPER THE ESC ADDRESS RANGE AS FOLLOWS: LOW=HEX 'C0', HIGH=HEX '53'.
5. THE CA-1 OR CA-4 BOARD(S) ARE FACTORY WIRED TO TRAP ON SELECT-OUT. THE BOARD WIRING MUST BE CHANGED, IF TRAPPING ON SELECT-IN IS REQUIRED.
6. USE JUMPER STRIP, 5159491, AS REQUIRED.





2.0 SAFETY NOTES:

ALL CE'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 3705-80 MACHINE WHICH MAY CONSTITUTE A HAZARD TO MAINTENANCE PERSONNEL. A COPY OF 229-1264 IS SHOWN IN THE FRONT OF MLM VOL. II (FORM NUMBER SY27-0209).

2.1 GENERALLY, THE FOLLOWING SHOULD BE PRACTICED:

- 2.1.1 NO C.E. SHOULD WORK ALONE WHEN PERFORMING MAINTENANCE OR REPAIR WORK. AT LEAST TWO PEOPLE 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 CO-2 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.

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2.1.5 ALWAYS USE A RELIABLE VOLTMETER TO VERIFY 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 3705-80, THE FOLLOWING SHOULD BE WATCHED:

MAKE SURE ALL EXTERNAL CABLES AND ALL POWER CABLES ARE NOT CONNECTED BEFORE STARTING INSTALLATION.

3.0 UNLOADING AND MOVEMENT:

THE SIZE OF THE 3705-80 COMMUNICATIONS CONTROLLER IS SUCH THAT THE UNIT WILL EASILY PASS THROUGH AN AVERAGE DOORWAY. THE BASIC UNIT 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, TILTING IS PERMISSABLE BUT THE UNIT MUST NOT BE LAID ON ITS' END OR SIDE AND ANY SUDDEN SHIFTS, STOPS, OR DROPPING OF THE UNIT MUST BE AVOIDED.

4.0 PHYSICAL PLACEMENT:

4.1 CASTERS ARE INSTALLED ON THE UNIT AT SHIPMENT TO FACILITATE MOVING IT AFTER IT HAS BEEN UNPACKED. ONCE UNPACKED, THE UNIT CAN BE WHEELED TO THE INSTALLATION AREA IN THE CUSTOMER'S OFFICE. WHEN THE UNIT IS IN POSITION, INSTALL CASTER LOCKS, P/N 184886 (4), AT EACH CORNER OF THE UNIT. FIGURE 4.1 ILLUSTRATES THE APPROXIMATE POSITIONING OF THE CASTERS AND CASTER LOCKS.

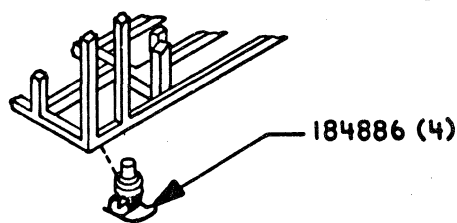


FIGURE 4.1
INSTALLATION OF CASTER LOCKS

4.2 THE DOORS SHOULD BE ALIGNED TO CLOSE PROPERLY SO THAT THE CATCHES RETAIN THE DOOR IN A CLOSED POSITION. CHECK THAT ELECTROSTATIC FINGER STOCK IS MAKING GOOD CONTACT WITH THE FRAME.

5.0 FILING OF SUPPORT DOCUMENTATION:

NOTE: IF THE FOLLOWING SUPPORT DOCUMENTATION HAS NOT YET BEEN INSERTED INTO THE VOLUMES INDICATED, FILE THAT DOCUMENTATION PER THE INSTRUCTIONS BELOW:

5.1 IF REMOTE PROGRAM LOADER FACTORY FEATURE B/M 1863323 IS INSTALLED ON THIS 3705-80, STORE THE INDIVIDUAL VERSION 081 LOGIC SHEETS, INCLUDED WITH REMOTE SHIP GROUP B/M 8496482, INTO THE VOLUMES INDICATED BELOW. REMOVE THE LOGIC SHEETS PRESENTLY IN THE AFFECTED VOLUMES.

<u>LOGIC SHEET</u>	<u>VOLUME</u>	<u>VERSION 081 LOGIC SHEET P/N</u>
AA005	42	5153976
AJ001	42	5153977
CU009	42	5153978
CU010	42	8550139
CU012	42	8550140
CU013	42	4499512
CU016	42	5153982
CW001	A42	5153929
CW002	A42	5153930
CW011	A42	5153979
CW013	A42	4499511
DW001	43	5153980
DZ002	43	5153981

5.2 INDIVIDUALLY INSERT THE THREE 3705-80 MLM TABS INTO THE THREE BINDERS INCLUDED WITH THE SHIP GROUP.

5.3 INSERT VOLUME I OF THE MAINTENANCE MANUAL (FORM NUMBER SY27-0208) INTO MLM VOLUME 1, SECTIONALIZING VOLUME I WITH THE DIVIDER TABS PROVIDED (FORM NUMBER SY27-0214). FORM NUMBER SY27-0214 IS SUPPLIED BY THE SHIP GROUP. FORM NUMBER SY27-0208 IS SUPPLIED WITH:

- A. THE DIAGNOSTIC TAPE RECEIVED FROM PID OR
- B. WAS INCLUDED WITH THE SHIP GROUP OR
- C. REMOTE PROGRAM LOADER SHIP GROUP, IF A REMOTE PROGRAM LOADER IS INSTALLED.

NOTE: IF THIS 3705-80 HAS BOTH A CHANNEL AND A REMOTE PROGRAM LOADER INSTALLED, TWO OF FORM NUMBER SY27-0208 MAY HAVE BEEN RECEIVED. IF TWO OF THE MANUALS HAVE BEEN RECEIVED, CHECK THE LEVEL OF THE MANUALS AND RETAIN ONLY ONE OF THEM.

5.4 INSERT THE FOLLOWING DOCUMENTATION INTO THE VOLUME LISTED, REMOVING ANY STAPLES FROM VOLUMES II AND III OF THE MAINTENANCE MANUALS AND SECTIONALIZING THEM WITH THE DIVIDER TABS PROVIDED (FORM NUMBER SY27-0214):

VOLUME II OF THE MAINTENANCE MANUAL (FORM NUMBER SY27-0209) INTO MLM VOLUME 2.
VOLUME III OF THE MAINTENANCE MANUAL (FORM NUMBER SY27-0209) INTO MLM VOLUME 3.
PARTS CATALOG (FORM NUMBER S131-0077) INTO MLM VOLUME 3

5.5 OP PANEL GUIDE (FORM NUMBER GA27-0209) IS INCLUDED WITH THE SHIP GROUP FOR GENERAL REFERENCE.

5.6 FILE THE LOGICS INCLUDED WITH THIS 3705-80. THE LOGICS WILL BE REFERENCED DURING THE INSTALLATION.

6.0 MAIN CIRCUIT BREAKER CHECK AND POWER CORD CONNECTION:

6.1 THE 3705-80 MAIN CIRCUIT BREAKER (CB1) IS A 15 AMP CIRCUIT BREAKER FOR ALL INSTALLATIONS: CHECK THAT CB1 IS OFF.

6.2 FOR MAIN FRAME POWER CORD CONNECTION (THE CORD IS SHIPPED INSIDE THE FRAME UNCONNECTED), THE PRIME POWER BOX MUST BE OPENED AND THE WIRES CONNECTED TO THE 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 ϕ 50HZ	
BK (FL2-L1)	BLUE (380/408V SYSTEMS ONLY)	FL1-L1
WHITE (FL3-L1)	BROWN	FL2-L1
RED (FL4-L1)	BROWN (UNITED KINGDOM ONLY)	FL3-L1
GN/YEL (G - \oplus)	BLACK (W.T. EXCEPT U.K.)	FL3-L1
SHIELD (GND)	BROWN (UNITED KINGDOM ONLY)	FL4-L1
	BLACK (W.T. EXCEPT U.K.)	FL4-L1
	GN/YEL	G - \oplus
	SHIELD	GND

7.0 POWER ON AND STANDALONE TESTS:

NOTE 1: IN ORDER TO BRING POWER-ON INDEPENDENT OF THE CPU(S) EMERGENCY POWER-OFF (EPO) CABLE, A DUMMY EPO PLUG, P/N 5182923, MUST BE PLACED IN ANY ONE OF THE CPU EPO RECEPTACLES, J1 THRU J4 SHOWN IN FIGURE 7.0 BELOW, IN THE 3705-80. IT IS EXTREMELY IMPORTANT THAT THE EPO PLUG BE REMOVED WHEN LEFT UNATTENDED AND WHEN THE CPU(S) EPO CABLE HAS BEEN ATTACHED.

NOTE 2: REMOVE THE UNIT PROTECT KEY FROM THE PACKING ENVELOPE TAPED TO THE 3705-80 PANEL, INSERT THE KEY AND TURN THE KEY TO THE PANEL ENABLE POSITION. THE KEY CANNOT BE REMOVED WHEN IN THIS POSITION.

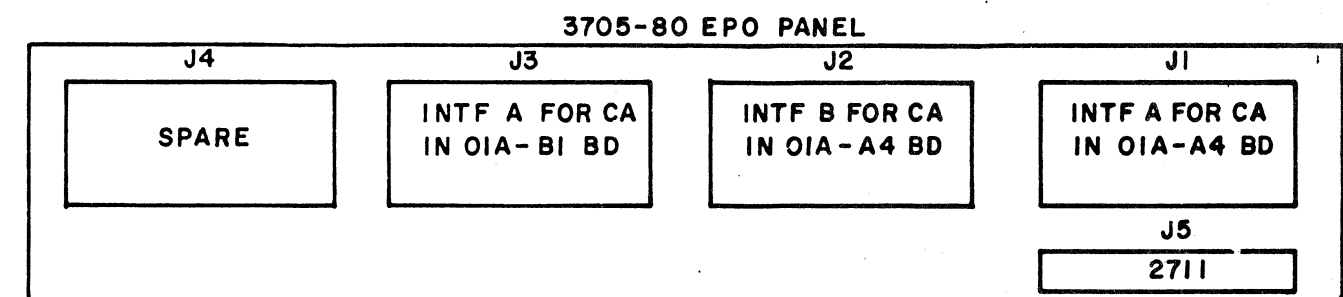


FIG. 7.0

7.1 POWER ON MEASUREMENTS

POWER SUPPLY MEASUREMENT (AND ADJUSTMENTS, IF NECESSARY) PROCEDURES SHOULD BE PERFORMED AS SPECIFIED IN THE 3705-80 FETMM (MLM VOL. III, SHEET D580, D.C. VOLTAGE MEASUREMENTS).

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7.2 STAND-ALONE HARDWARE CHECK-OUT

THIS TEST IS A VERY SIMPLE CHECKPOINT TO VERIFY THAT THE 3705-80 PROCESSING UNIT IS AT A FUNDAMENTAL OPERATING LEVEL BEFORE CONTINUING THE INSTALLATION OR GOING "ON-LINE" TO THE SYSTEM I/O CHANNEL.

NOTE: IF ANY OF THE SELF TESTS BELOW ARE UNSUCCESSFUL, REFER TO MLM VOL. I FOR SYSTEMATIC TROUBLESHOOTING PROCEDURES.

- 7.2.1 PLACE THE CHANNEL ENABLE/DISABLE SWITCH(ES) IN THE DISABLE POSITION, MODE SELECT SWITCH TO PROCESS, DISPLAY/FUNCTION SELECT SWITCH TO STATUS, AND THE DIAGNOSTIC CONTROL SWITCH TO THE PROCESS POSITION.
- 7.2.2 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.
- 7.2.3 IF THE SELF-TEST WAS SUCCESSFUL, THE FOLLOWING LIST WILL REPRESENT THE STATE OF KEY INDICATORS. THE NUMBER IN () REPRESENTS THE NUMBER OF LIGHTS TO BE CHECKED.

<u>INDICATOR</u>	<u>STATE</u>	<u>INDICATOR</u>	<u>STATE</u>
POWER CHECK	OFF	CS CYCLE	OFF
CHAN 1 INTF A ENABLED OR		I CYCLE	ON
CHAN 1 ENABLED	OFF	CYCLE TIME (2)	ON
CHAN 1 INTF B ENABLED OR		IPL PHASE (2)	ON
CHAN 2 ENABLED	OFF	ADAPTER CHECK	OFF
CC CHECK	OFF	IN/OUT CHECK	OFF
PANEL ACTIVE	ON	ADDRESS EXCEPT	OFF
POWER ON	ON	PROTECT CHECK	OFF
HARD STOP	OFF	INVALID OP	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		

- 7.2.4 DEPRESS STOP.
- 7.2.5 SET THE DIAGNOSTIC CONTROL SWITCH TO STORAGE TEST PATTERN.
- 7.2.6 SET THE FOUR STORAGE DATA SWITCHES TO HEX 'XAAAA'.
- 7.2.7 SET THE DISPLAY/FUNCTION SELECT SWITCH TO THE STORAGE ADDRESS POSITION AND DEPRESS START.
- 7.2.8 IF THE CC CHECK INDICATOR IS OFF, THE TEST WAS SUCCESSFUL.
- 7.2.9 DEPRESS RESET.
- 7.2.10 SET THE DIAGNOSTIC CONTROL SWITCH TO STORAGE SCAN.
- 7.2.11 DEPRESS START.
- 7.2.12 IF THE CC CHECK INDICATOR IS OFF, THE TEST IS SUCCESSFUL.
- 7.2.13 REPEAT 7.2.5 THRU 7.2.12, USING HEX 'X0000', 'XFFFF', 'X5555', 'X8001' AND 'XFFFE' IN STEP 7.2.6.
- 7.2.14 REDO 7.2.1 THRU 7.2.3.

8.0 INSTALLATION OF CHANNEL ADDRESS LABELS AND EXTERNAL CABLES:

INSTALL THE EXTERNAL I/O CHANNEL INTERFACE CABLES PER FIG 8.0 BELOW. STICK-ON HEX LABELS, P/N 1770838, ARE PROVIDED IN THE SHIPPING GROUP FOR THE CHANNEL ADDRESS(ES) TO BE PLACED NEAR THE APPROPRIATE CHANNEL ENABLE/DISABLE SWITCH(ES) ON THE FRONT PANEL, IF THE CUSTOMER DESIRES THAT THE ADDRESS(ES) BE INDICATED ON THE PANEL.

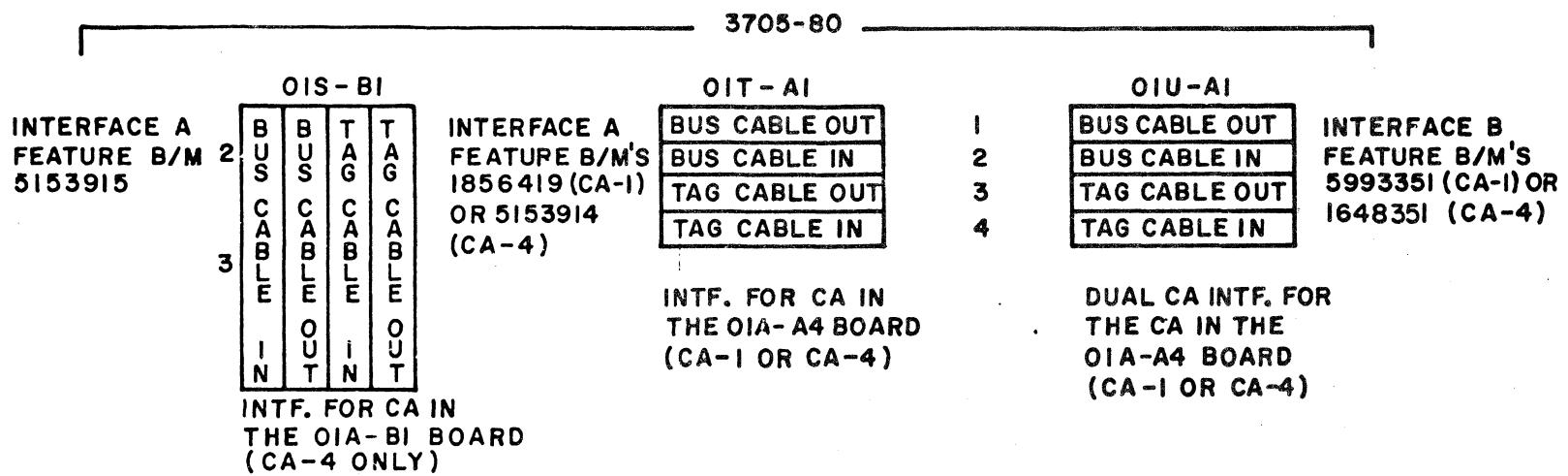


FIG. 8.0

9.0 IFT'S AND OLT'S:

NOTE: THE FOLLOWING HARDWARE HAS BEEN SUPPLIED FOR EXTERNALLY WRAPPING THE 3705-80 LINE INTERFACES:

- P/N 6835406 (2)-EIA RS232C/V.24 WRAP BLOCKS.
- P/N 1770812 (2)-WITH A 3705-80 MODEL 84 FOR WRAPPING THE LINE SET 8'S IN PARTITIONS 5, 6 AND 7 OR AN OPTIONAL LINE SET IN PARTITION 1.
- P/N 1770812 (2)-WITH A 3705-80 MODEL 81 OR 82, IF AN OPTIONAL LINE SET 2 HDX, 3 HDX, 5 OR 8 IS INSTALLED IN PARTITION 1.
- P/N 1770812 (1)-WITH A 3705-80 MODEL 81 OR 82, IF AN OPTIONAL LINE SET 2 DX, 3 DX OR 9 IS INSTALLED IN PARTITION 1.
- P/N 1770810 (3)-Y JUMPER AND P/N 1770811 (10)-JUMPER.

9.1 IF IT IS POSSIBLE TO OBTAIN THE HOST PROCESSOR AT THIS POINT, THE FOLLOWING 3705-80 DIAGNOSTICS SHOULD BE CONFIGURED AND RUN BEFORE CONTINUING WITH THE HARDWARE INSTALLATION (SEE MLM VOL. I). ALSO SEE SECTION 18.1 FOR ADDITIONAL CDS INFORMATION THAT WILL HAVE TO BE ENTERED INTO THE CDS DECK BEFORE TESTING.

CHANNEL ADAPTER TYPE 1 OLT'S, T3705AA-AE, (IF APPLICABLE).
CHANNEL ADAPTER TYPE 4 OLT'S, T3705AA-AI, (IF APPLICABLE).
IFT LOADER T3705A, WITH INITIAL TEST AND WITH ALL INTERNAL FUNCTIONAL TESTS (CFT'S).

9.2 CONTINUE THE HARDWARE INSTALLATION BEFORE COMPLETING THE DIAGNOSTIC DOWN LINE TERMINAL TESTS.

9.3 RUN THE DOWN LINE TERMINAL TESTS.

10.0 INSTALLATION OF COMMUNICATION LINE EXTERNAL CABLING TO FACILITIES:

A CUSTOMIZED LINE SET CONFIGURATION CHART IS PROVIDED WITH EACH INITIAL 3705-80 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 FIRST CORRELATED WITH PHYSICAL CABLE PLANNING DATA (AT SITE) FOR CABLE CODE VERSUS LINE SET TYPE RELATIONSHIPS. USE THE APPLICABLE FIGURE IN MLM VOL. III SHEETS C140 AND C150, TO DETERMINE TAILGATE POSITIONS VERSUS LINE ADDRESSES WHILE INSTALLING THE EXTERNAL CABLES, NOTING THAT AN OPTIONAL LINE SET 2 DX, 3 DX OR 9 (USED IN DX MODE) WILL USE ADDRESSES 022/0844 INSTEAD OF 021/0842 INDICATED IN THE APPLICABLE FIGURE, EVEN THOUGH THE CONNECTOR IS PHYSICALLY INSTALLED AT 019-A2R2/R3.

11.0 LINE SET 1 DUPLEX/HALF DUPLEX AND START/STOP LOCAL ATTACH JUMPERING:

11.1 THE RS232C/V.24 INTERFACES (LINE SET 1'S) ARE JUMPERED AT THE FACTORY FOR DUPLEX/HALF DUPLEX OPERATION ACCORDING TO THE CUSTOMER ORDER. A BOARD JUMPER MUST BE INSTALLED AT THE LINE INTERFACE CARD LOCATION THAT WILL BE LOGICALLY ATTACHED TO A DUPLEX DCE OR LOCAL ATTACH DEVICE. FOR HALF DUPLEX OPERATION THE BOARD JUMPER MUST NOT BE PRESENT. VERIFY THAT THE RS232C/V.24 INTERFACES MATCH THE MODE OF THE ATTACHED DCE'S OR LOCAL ATTACH DEVICES AND IF NOT, ADD OR REMOVE THE APPLICABLE JUMPER(S), USING THE CHART BELOW TO DETERMINE LINE ADDRESS VERSUS BOARD JUMPERING POSITIONS. FOR ANY HALF DUPLEX TO DUPLEX JUMPERING, USE JUMPER STRIP, P/N 5159491.

NOTE 1: IF ANY RS232C/V.24 INTERFACE IS TO BE CHANGED FROM HALF DUPLEX TO DUPLEX OR DUPLEX TO HALF DUPLEX, THE CDS MUST BE UPDATED PER SECTION 18.2 TO REFLECT THE MODE CHANGE.

NOTE 2: THE CHART BELOW SHOWS ALL POSSIBLE RS232C/V.24 SYSGEN ADDRESS POSITIONS ON THE 3705-80 SERIES OF MACHINES. DEPENDENT UPON YOUR 3705-80 MODEL, ALL OF THE ADDRESS POSITIONS LISTED MAY NOT BE PHYSICALLY INSTALLED. THE PHYSICALLY INSTALLED ADDRESSES ARE LISTED BELOW BY MODEL. HALF DUPLEX OPERATION USES ONLY THE EVEN ADDRESS.

MODEL 81-ADDRESSES 024/025, 026/027, 028/029, 02A/02B
 MODEL 82-ADDRESSES 024/025, 026/027, 028/029, 02A/02B, 030/031
 032/033, 034/035, 036/037, 038/039, 03A/03B
 MODEL 83-ADDRESSES 020/021, 022/023, 024/025, 026/027, 028/029, 02A/02B,
 02C/02D, 02E/02F, 030/031, 032/033, 034/035, 036/037,
 038/039, 03A/03B, 03C/03D, 03E/03F
 MODEL 84-ADDRESSES 024/025, 026/027, 028/029, 02A/02B

<u>SYSGEN ADDRESS(ES)</u>	<u>BOARD</u>	<u>BOARD PINS</u>	<u>DESCRIPTION</u>
020/021	01A-A2	B2P06 TO P08	LIB A LINE 0 PARTITION=1
022/023	01A-A2	C2P06 TO P08	LIB A LINE 1 PARTITION=1
024/025	01A-A2	D2P06 TO P08	LIB A LINE 2 PARTITION=2
026/027	01A-A2	E2P06 TO P08	LIB A LINE 3 PARTITION=2
028/029	01A-A2	H2P06 TO P08	LIB A LINE 4 PARTITION=3
02A/02B	01A-A2	J2P06 TO P08	LIB A LINE 5 PARTITION=3
02C/02D	01A-A2	K2P06 TO P08	LIB A LINE 6 PARTITION=4
02E/02F	01A-A2	L2P06 TO P08	LIB A LINE 7 PARTITION=4
030/031	01A-A1	B2P06 TO P08	LIB B LINE 0 PARTITION=5
032/033	01A-A1	C2P06 TO P08	LIB B LINE 1 PARTITION=5
034/035	01A-A1	D2P06 TO P08	LIB B LINE 2 PARTITION=6
036/037	01A-A1	E2P06 TO P08	LIB B LINE 3 PARTITION=6
038/039	01A-A1	H2P06 TO P08	LIB B LINE 4 PARTITION=7
03A/03B	01A-A1	J2P06 TO P08	LIB B LINE 5 PARTITION=7
03C/03D	01A-A1	K2P06 TO P08	LIB B LINE 6 PARTITION=8
03E/03F	01A-A1	L2P06 TO P08	LIB B LINE 7 PARTITION=8

11.2 IF A START/STOP LOCAL ATTACH DEVICE IS TO CONNECT TO THE 3705-80, THE LINE INTERFACE CARD LOGICALLY ATTACHED TO THAT DEVICE MUST BE REJUMPERED ACCORDING TO LOGIC SHEET VA004 (VOL. 46). IF APPLICABLE, USE THE CHART ABOVE TO DETERMINE THE CARD AFFECTED, WHICH IS DEPENDENT UPON THE SYSGEN ADDRESS(ES) OF THE START/STOP LOCAL ATTACH DEVICE.

12.0 POWER AND STANDALONE TESTS WITH A REMOTE PROGRAM LOADER FEATURE INSTALLED:

NOTE 1: IN ORDER TO BRING POWER-ON INDEPENDENT OF A CPU(S) EMERGENCY POWER-OFF (EPO) CABLE, A DUMMY EPO PLUG, P/N 5182923, MUST BE PLACED IN ANY ONE OF THE CPU EPO RECEPTACLES, J1 THRU J4 (SEE FIG 7.0, PAGE 7), IN THE 3705-80. IT IS EXTREMELY IMPORTANT THAT THE EPO PLUG BE REMOVED, WHEN LEFT UNATTENDED DURING INSTALLATION OR IF A CA-1 OR CA-4 IS INSTALLED IN THIS 3705-80 AND THE CPU(S) EPO CABLE HAS BEEN ATTACHED.

NOTE 2: REMOVE THE UNIT PROTECT KEY FROM THE PACKING ENVELOPE TAPED TO THE 3705-80 PANEL, INSERT THE KEY AND TURN THE KEY TO THE PANEL ENABLE POSITION. THE KEY CANNOT BE REMOVED WHEN IN THIS POSITION.

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

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12.2 POWER ON MEASUREMENTS

POWER SUPPLY MEASUREMENT (AND ADJUSTMENTS, IF NECESSARY) PROCEDURES SHOULD BE PERFORMED AS SPECIFIED IN THE 3705-80 FETMM (MLM VOL. III, SHEET D580, D.C. VOLTAGE MEASUREMENTS).

12.3 REMOTE HARDWARE CHECKOUT

THIS TEST IS A CHECKPOINT TO VERIFY THAT THE REMOTE 3705-80 IS AT A FUNDAMENTAL OPERATING LEVEL BEFORE CONTINUING THE INSTALLATION OR INSTALLING THE COMMUNICATIONS FACILITIES.

NOTE: IF ANY OF THE SELF TESTS BELOW ARE UNSUCCESSFUL, REFER TO MLM VOL. I FOR SYSTEMATIC TROUBLESHOOTING PROCEDURES.

12.3.1 IF A CHANNEL ADAPTER ENABLE/DISABLE SWITCH IS PRESENT, PLACE THE SWITCH IN THE DISABLE POSITION.

12.3.2 PLACE THE PANEL MODE SELECT SWITCH TO PROCESS.

12.3.3 PLACE THE DISPLAY/FUNCTION SELECT SWITCH TO STATUS.

12.3.4 PLACE IN THE ROTARY ADDRESS/DATA SWITCHES A THROUGH E THE VALUE X'0DDDD'.

12.3.5 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 AND THEN INTERRUPT PUSHBUTTONS.

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.

12.3.6 IF THE SELF TEST WAS SUCCESSFUL, THE FOLLOWING LIST WILL REPRESENT THE STATE OF KEY INDICATORS WITH THE DISPLAY/FUNCTION SELECT SWITCH IN THE STATUS POSITION. THE NUMBER IN () REPRESENTS THE NUMBER OF LIGHTS TO BE CHECKED.

<u>INDICATOR</u>	<u>STATE</u>	<u>INDICATOR</u>	<u>STATE</u>
POWER CHECK	OFF	CS CYCLE	OFF
CHAN 1 INTF A ENABLED (IF PRESENT)	OFF	I CYCLE	OFF
CHAN 1 INTF B ENABLED (IF PRESENT)	OFF	CYCLE TIME (2)	ON
CC CHECK	OFF	IPL PHASE (2)	OFF
PANEL ACTIVE	ON	ADAPTER CHECK	OFF
POWER ON	ON	IN/OUT CHECK	OFF
HARD STOP	ON	ADDRESS EXCEPT	OFF
TEST	ON	PROTECT CHECK	OFF
WAIT	ON	INVALID OP	OFF
PROGRAM STOP	ON	PROGRAM LEVEL 1	OFF
LOAD	OFF	PROGRAM LEVEL 2	OFF
CC CHECKS (9)	OFF	PROGRAM LEVEL 3	OFF
ADDRESS COMPARE	OFF	PROGRAM LEVEL 4	ON
		C LATCH	OFF
		Z LATCH	ON

12.3.7 PLACE THE DISPLAY/FUNCTION SELECT SWITCH IN THE STORAGE ADDRESS POSITION: IF THE TEST WAS SUCCESSFUL, BYTE 0 AND BYTE 1 OF DISPLAY A AND B WILL CONTAIN HEX 'XFFFF'.

12.3.8 UPON SUCCESSFUL COMPLETION OF SECTIONS 12.3.1 THROUGH 12.3.7, PERFORM THE FOLLOWING STORAGE TEST PATTERN.

12.3.8.1 SET THE DIAGNOSTIC CONTROL SWITCH TO STORAGE TEST PATTERN.

12.3.8.2 SET THE FOUR STORAGE DATA SWITCHES TO HEX 'XAAAA'.

12.3.8.3 SET THE DISPLAY/FUNCTION SELECT SWITCH TO THE STORAGE ADDRESS POSITION AND DEPRESS START.

12.3.8.4 IF THE CC CHECK INDICATOR IS OFF, THE TEST WAS SUCCESSFUL.

12.3.8.5 DEPRESS RESET.

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12.3.8.6 SET THE DIAGNOSTIC CONTROL SWITCH TO STORAGE SCAN.

12.3.8.7 DEPRESS START.

12.3.8.8 IF THE CC CHECK INDICATOR IS OFF, THE TEST IS SUCCESSFUL.

12.3.8.9 REPEAT 12.3.8.1 THRU 12.3.8.8, USING HEX 'X0000', 'XFFFF', 'X5555',
'X8001 AND 'XFFFE' IN STEP 12.3.8.2.

13.0 INTERNAL FUNCTIONAL TESTS:

NOTE: THE FOLLOWING HARDWARE HAS BEEN SUPPLIED FOR EXTERNALLY WRAPPING THE 3705-80 LINE INTERFACES:

P/N 6835406 (2)-EIA RS232C/V.24 WRAP BLOCKS.
P/N 1770812 (2)-WITH A 3705-80 MODEL 84 FOR WRAPPING THE LINE SET 8'S IN PARTITIONS
5, 6 AND 7 OR AN OPTIONAL LINE SET IN PARTITION 1.
P/N 1770812 (2)-WITH A 3705-80 MODEL 81 OR 82, IF AN OPTIONAL LINE SET 2 HDX, 3 HDX,
5 OR 8 IS INSTALLED IN PARTITION 1.
P/N 1770812 (1)-WITH A 3705-80 MODEL 81 OR 82, IF AN OPTIONAL LINE SET 2 DX, 3 DX OR
9 IS INSTALLED IN PARTITION 1.
P/N 1770810 (3)-Y JUMPER.
P/N 1770811 (10)-JUMPER.

13.1 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 DISKETTES AT THE PLANT IS REQUIRED. REFER TO MLM VOL. I (FORM NUMBER SY27-0208) FOR AN EXPLANATION OF THIS PROCEDURE. ALSO REFER TO SECTION 18.2, IF ANY EIA RS232C/V.24 LINE INTERFACES HAVE BEEN CHANGED FROM HALF DUPLEX TO DUPLEX OR DUPLEX TO HALF DUPLEX.

13.2 RUN THE IFT'S FOR THE REMOTE 3705-80 AS EXPLAINED IN MLM VOL. I.

14.0 DEFINE THE LINE ADDRESS FOR THE REMOTE LINK AND CONTINUE DOWN LINE TESTS:

14.1 BEFORE A COMMUNICATION LINK IS ESTABLISHED BETWEEN THE REMOTE 3705-80 AND A LOCAL 3704/5, THE LINE ADDRESS FOR THIS LINK MUST BE DEFINED AND CONFIGURED ON THE DISK. REFER TO MLM VOL. I, FOR AN EXPLANATION OF THIS PROCEDURE.

14.2 COMPLETE DIAGNOSTIC TESTING OF THE REMOTE 3705-80 BY RUNNING THE DOWN LINE TERMINAL TESTS.

15.0 CHECKOUT OF UNIT PROTECT FEATURE:

TURN THE UNIT PROTECT KEY IN THE DISABLE POSITION AND NOTE THAT AT THIS POINT THE PANEL ACTIVE INDICATOR WILL TURN OFF. WITH THE UNIT PROTECT KEY IN THE DISABLE POSITION, THE DEPRESSION OF ANY OTHER PANEL PUSHBUTTON OR SWITCH (EXCEPT POWER ON/OFF, CHANNEL ENABLE/DISABLE AND DISPLAY/FUNCTION SELECT) WILL NOT HAVE AN AFFECT ON MACHINE OPERATION. AFTER COMPLETING THE UNIT PROTECT CHECKOUT, TURN THE KEY TO THE PANEL ENABLE POSITION.

16.0 EXTERNAL CABLE RELIEF HARDWARE INSTALLATION:

16.1 INSTALL THE 3705-80 EXTERNAL CABLE RELIEF HARDWARE LISTED BELOW PER REFERENCE DRAWING P/N 1862319.

CABLE RELIEF P/N 1770764, USING SCREW P/N 186890 (2)
CABLE RELIEF P/N 1770785, USING SCREW P/N 19852 (2)
CABLE RELIEF P/N 1770765, USING SCREW P/N 3690 (2)
CABLE RELIEF P/N 5182943, USING SCREW P/N 3690 (2)

16.2 INSTALL EXTERNAL CABLE BRACKET, P/N 1770782, USING SCREW P/N 28413 (4), ONTO THE 01S GATE, PER REFERENCE DRAWING P/N 1862310.

17.0 3705-80 JUMPERING AND CARD REFERENCE INFORMATION:

LOGIC REFERENCE				
FEATURE	BOARD JUMPERS	CARD JUMPERS ²	TERMINATOR CARDS	SOCKET LISTING
CHANNEL ADAPTERS CA-1 CA-4	RA052 PA048	RA050-RA051 PA048	RA001 PA001	RA000 PA000
STANDALONE REMOTE (NO CA'S INSTALLED)	(SEE ¹)			
COMMUNICATIONS SCANNER CS2			TA000	TA000
LIBS	VA00X X:REFER	VA00X TO SPECIFIC	VA001 LINESET TYPE	VA000
CCU	AJ001A			DZ001- DZ002
STORAGE				MM010
REMOTE PROGRAM LOADER				GE000
POWER CONTROL				YZ844

- ¹ JUMPER B4T2B11 TO B4T2D08 (SEE AJ001 - SIGNAL NAME "FORCE ALT")
² USE JUMPER STRIP P/N 5159491 AS REQUIRED.

	LOGIC REF
PRIME POWER JUMPERS	YZ824 YZ830

18.0 CDS REFERENCE:

18.1 FOR DOMESTIC AND EMEA COUNTRIES A PREPUNCHED CDS IS INCLUDED IN THE SHIPPING GROUP FOR 3705-80'S WITH A CA-1 OR CA-4. SOME ADDITIONAL INFORMATION MUST BE PUNCHED INTO THE DECK BEFORE IT CAN BE USED. THIS DECK SHOULD BE DUPLICATED FOR EACH CHANNEL INTERFACE THAT HAS A DIFFERENT NSC ADDRESS. THE FOLLOWING INFORMATION MUST BE ADDED TO THE DECK(S):

CARD	CARD COLUMN(S)	CONTENTS/DESCRIPTION
1	10-17	NATIVE SUBCHANNEL ADDRESS IN HEX RIGHT JUSTIFIED (EX. 0000010A)
1	20-21	= 20 IF THIS 3705-80 HAS A TYPE 4 CHANNEL INSTALLED; OTHERWISE 00.
1	31	= 4 IF A CA-1 OR CA-4 TWO CHANNEL SWITCH IS INSTALLED; OTHERWISE 0
1	36-39	ESC UNIT ADDRESS IN HEX OF LOWEST EMULATOR LINE ADDRESS (EX. 0010). LEAVE BLANK IF MACHINE USES NCP ONLY.
1	40-41	HEX NUMBER OF EMULATOR LINE ADDRESSES.
1	52-67	HEX REPRESENTATION OF THE SYMBOLIC NAME OF THE NCP. LEAVE BLANK IF NCP IS NOT USED.
3	36-37	NSC ADDRESS INTF A FOR THE FIRST CA. MAY BE CA-1 OR CA-4.
3	44-45	NSC ADDRESS FOR THE SECOND CA IF TWO CA-4'S ARE INSTALLED.

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18.2 IF ANY RS232C/V.24 LINE SET 1 INTERFACE(S) HAVE BEEN CHANGED FROM DUPLEX TO HALF DUPLEX OR FROM HALF DUPLEX TO DUPLEX, UPDATE THE CDS TO ACCURATELY REFLECT THE MODE JUMPERING OF THOSE INTERFACE(S), PER THE CHART BELOW:

CARD	CARD COLUMN	CARD PUNCH	CDS BYTE LOCATION	MODE	SYSGEN ADDRESS(ES)	DESCRIPTION
4	24-25	04	0F5A	HDX	020	LIB A LINE 0 PARTITION=1
4	24-25	08	0F5A	DX	020/021	LIB A LINE 0 PARTITION=1
4	26-27	04	0F5B	HDX	022	LIB A LINE 1 PARTITION=1
4	26-27	08	0F5B	DX	022/023	LIB A LINE 1 PARTITION=1
4	28-29	04	0F5C	HDX	024	LIB A LINE 2 PARTITION=2
4	28-29	08	0F5C	DX	024/025	LIB A LINE 2 PARTITION=2
4	30-31	04	0F5D	HDX	026	LIB A LINE 3 PARTITION=2
4	30-31	08	0F5D	DX	026/027	LIB A LINE 3 PARTITION=2
4	32-33	04	0F5E	HDX	028	LIB A LINE 4 PARTITION=3
4	32-33	08	0F5E	DX	028/029	LIB A LINE 4 PARTITION=3
4	34-35	04	0F5F	HDX	02A	LIB A LINE 5 PARTITION=3
4	34-35	08	0F5F	DX	02A/02B	LIB A LINE 5 PARTITION=3
4	36-37	04	0F60	HDX	02C	LIB A LINE 6 PARTITION=4
4	36-37	08	0F60	DX	02C/02D	LIB A LINE 6 PARTITION=4
4	38-39	04	0F61	HDX	02E	LIB A LINE 7 PARTITION=4
4	38-39	08	0F61	DX	02E/02F	LIB A LINE 7 PARTITION=4
4	40-41	04	0F62	HDX	030	LIB B LINE 0 PARTITION=5
4	40-41	08	0F62	DX	030/031	LIB B LINE 0 PARTITION=5
4	42-43	04	0F63	HDX	032	LIB B LINE 1 PARTITION=5
4	42-43	08	0F63	DX	032/033	LIB B LINE 1 PARTITION=5
4	44-45	04	0F64	HDX	034	LIB B LINE 2 PARTITION=6
4	44-45	08	0F64	DX	034/035	LIB B LINE 2 PARTITION=6
4	46-47	04	0F65	HDX	036	LIB B LINE 3 PARTITION=6
4	46-47	08	0F65	DX	036/037	LIB B LINE 3 PARTITION=6
4	48-49	04	0F66	HDX	038	LIB B LINE 4 PARTITION=7
4	48-49	08	0F66	DX	038/039	LIB B LINE 4 PARTITION=7
4	50-51	04	0F67	HDX	03A	LIB B LINE 5 PARTITION=7
4	50-51	08	0F67	DX	03A/03B	LIB B LINE 5 PARTITION=7
4	52-53	04	0F68	HDX	03C	LIB B LINE 6 PARTITION=8
4	52-53	08	0F68	DX	03C/03D	LIB B LINE 6 PARTITION=8
4	54-55	04	0F69	HDX	03E	LIB B LINE 7 PARTITION=8
4	54-55	08	0F69	DX	03E/03F	LIB B LINE 7 PARTITION=8

18.3 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 PREPUNCHED CONFIGURATION DATA SET IS REQUIRED. REFER TO MLM VOL. I (FORM NUMBER SY27-0208), FOR AN EXPLANATION OF THIS PROCEDURE.

19.0 LS-8 OR 9 SWITCHED/NON SWITCHED MODE JUMPERING:

ANY X.21 INTERFACES INSTALLED IN THIS 3705-80 WERE JUMPERED AT THE FACTORY FOR SWITCHED/NON SWITCHED OPERATION ACCORDING TO THE CUSTOMER ORDER. ENSURE THAT ANY X.21 LS-8 OR 9 INTERFACE AND CONTROL CARDS ARE JUMPERED COMPATIBLE WITH THE DCE THAT THEY WILL LOGICALLY BE ATTACHED TO (REFERENCE VA017, SHEET 2). THE CHART BELOW SHOWS THE POSSIBLE LS-8 OR 9 INTERFACES THAT MAY BE INSTALLED. LS-8 HDX OPERATION USES ONLY THE EVEN SYSGEN ADDRESS. LS-9 HDX OPERATION USES ONLY ADDRESS 20.

NOTE 1: NO CDS CHANGE IS REQUIRED IF AN X.21 SWITCHED TO NON SWITCHED OR NON SWITCHED TO SWITCHED MODE CHANGE IS REQUIRED.

NOTE 2: A DESCRIPTION FOR CHANGING THE MODE JUMPERING ON LS-8 OR 9 CARDS IS INCLUDED IN THE VA000A PAGES. AS REQUIRED, THE FOLLOWING SECTIONS OF THE VA000A PAGES CAN BE REFERRED TO:

- SECTION 7.0 CHANGE THE MODE OF AN X.21 LS-9 INTERFACE FROM SWITCHED TO NON SWITCHED.
- SECTION 8.0 CHANGE THE MODE OF AN X.21 LS-9 INTERFACE FROM NON SWITCHED TO SWITCHED.
- SECTION 9.0 CHANGE THE MODE OF AN X.21 LS-8 INTERFACE FROM SWITCHED TO NON SWITCHED.
- SECTION 10.0 CHANGE THE MODE OF AN X.21 LS-8 INTERFACE FROM NON SWITCHED TO SWITCHED.

SYSGEN ADDRESS(ES)	INTERFACE CARD	CONTROL CARD	DESCRIPTION
020/022	01A-A2B2	01A-A2M2	LIB A LINE 0 PARTITION=1 (OPTIONAL LS-9 INTERFACE)
020/021	01A-A2B2	01A-A2M2	LIB A LINE 0 PARTITION=1 (OPTIONAL LS-8 INTERFACE)
022/023	01A-A2C2	01A-A2M4	LIB A LINE 1 PARTITION=1 (OPTIONAL LS-8 INTERFACE)
030/031	01A-A1B2	01A-A1M2	LIB B LINE 0 PARTITION=5 (LS-8 INTERFACE-MOD 84 ONLY)
032/033	01A-A1C2	01A-A1M4	LIB B LINE 1 PARTITION=5 (LS-8 INTERFACE-MOD 84 ONLY)
034/035	01A-A1D2	01A-A1N2	LIB B LINE 2 PARTITION=6 (LS-8 INTERFACE-MOD 84 ONLY)
036/037	01A-A1E2	01A-A1N4	LIB B LINE 3 PARTITION=6 (LS-8 INTERFACE-MOD 84 ONLY)
038/039	01A-A1H2	01A-A1P2	LIB B LINE 4 PARTITION=7 (LS-8 INTERFACE-MOD 84 ONLY)
03A/03B	01A-A1J2	01A-A1P4	LIB B LINE 5 PARTITION=7 (LS-8 INTERFACE-MOD 84 ONLY)

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DATE OF CHANGE: NOV 80 MAR 81 JUN 81 DEC 81

20.0 CONVERT-DELTA (220/235V) TO WYE (380/408V) 50 HZ

REPLACE CBI WITH P/N SHOWN:

		3705-80
I FRAME	CBI	5182907

ACTION	DESCRIPTION	CABLE- JUMPER P/N	FROM	TO			LOGIC REFERENCE	
					380V	408V		
REMOVE	PLATE	1770816	FL-I POSITION			X	X	YZ886 (SH 13)
ADD	FL-I	1770797		FL-I POSITION		X	X	YZ886 (SH 13)
ADD	WIRES # 1 & 2	1770861	FL-I-T1	PPB-CBI-L4		X	X	YZ806
REPLACE	AC CORD	5182964				X	X	YZ806
RELOCATE	WIRE #3	1649102	PPB-TB3-7	PPB-TB3-12		X	X	YZ806
RELOCATE	JUMPER	1757911	PPB-TB3-7	PPB-TB3-12		X	X	YZ806
ADD	JUMPER	596458	PPB-TB3-11	PPB-TB3-12		X	X	YZ806
RELOCATE	WIRE #10	1649102	PPB-K2-L1	PPB-K2-2A		X	X	YZ808
ADD	JUMPER	1757910	PPB-TB1-4	T3-TB1-9			X	YZ808
ADD	JUMPER	1757910	PPB-TB1-4	T3-TB1-10		X		YZ808
<input type="checkbox"/>	RELOCATE	WIRE #5	PPB-T2-TB4-5	PPB-T2-TB4-4		X		YZ824
<input type="checkbox"/>	RELOCATE	WIRE #5	PPB-T2-TB4-4	PPB-T2-TB4-5			X	YZ824
MAIN TRANSFORMER T3-TB1:								
RELOCATE	JUMPER		4 & 5 OR 4 & 6	2 & 6		X		YZ830
RELOCATE	JUMPER		8 & 9 OR 8 & 10	6 & 10		X		YZ830
RELOCATE	JUMPER		4 & 5 OR 4 & 6	1 & 5			X	YZ830
RELOCATE	JUMPER		8 & 9 OR 8 & 10	5 & 9			X	YZ830
REMOVE	JUMPER	1757912	1 & 12 OR 2 & 12			X	X	YZ830
ADD	FEATURE CODE							

NOTE

WIRE MAY BE ON TERMINAL SPECIFIED.

REFERENCE ONLY

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DATE OF CHANGE: NOV 80 MAR 81 JUN 81 DEC 81

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21.0 CONVERT-WYE (380/408V) TO DELTA (220/235V) 50 HZ

REPLACE CBI WITH P/N SHOWN:

	3 4	3705-80
I FRAME	CBI	5719454

ACTION	DESCRIPTION	CABLE- JMPR P/N	FROM	TO			LOGIC REFERENCE
					220V	235V	
REPLACE	AC CORD	5182961			X	X	YZ806
REMOVE	WIRES #1 & 2	1770861	FL-1-T1	PPB-CBI-L4	X	X	YZ806
REMOVE	WIRES #1 & 2	1770861	FL-1-T1	PPB-TB3-10 & 11	X	X	YZ806
REMOVE	FL-1	1770797	FL-1 POSITION		X	X	YZ886(SH 13)
ADD	PLATE 1	1770816		FL-1 POSITION	X	X	YZ886(SH 13)
RELOCATE	WIRE #3	1649102	PPB-TB3-12	PPB-TB3-7	X	X	YZ806
RELOCATE	JUMPER	1757911	PPB-TB3-12	PPB-TB3-7	X	X	YZ806
REMOVE	JUMPER	596458	PPB-TB3-11	PPB-TB3-12	X	X	YZ806
RELOCATE	WIRE #10	1649102	PPB-K2-2A	PPB-K2-L1	X	X	YZ808
REMOVE	JUMPER	1757910	PPB-TB1-4	T3-TB1-9 OR 10	X	X	YZ808
2	RELOCATE	WIRE #5	PPB-T2-TB4-5	PPB-T2-TB4-4	X		YZ824
2	RELOCATE	WIRE #5	PPB-T2-TB4-4	PPB-T2-TB4-5		X	YZ824
MAIN TRANSFORMER T3-TB1:							
RELOCATE	JUMPER	————	2 & 6 OR 1 & 5	4 & 6	X		YZ830
RELOCATE	JUMPER	————	6 & 10 OR 5 & 9	8 & 10	X		YZ830
RELOCATE	JUMPER	————	2 & 6 OR 1 & 5	4 & 5		X	YZ830
RELOCATE	JUMPER	————	6 & 10 OR 5 & 9	8 & 9		X	YZ830
ADD	JUMPER	1757912	————	2 & 12	X		YZ830
ADD	JUMPER	1757912	————	1 & 2		X	YZ830
ADD	FEATURE CODE						

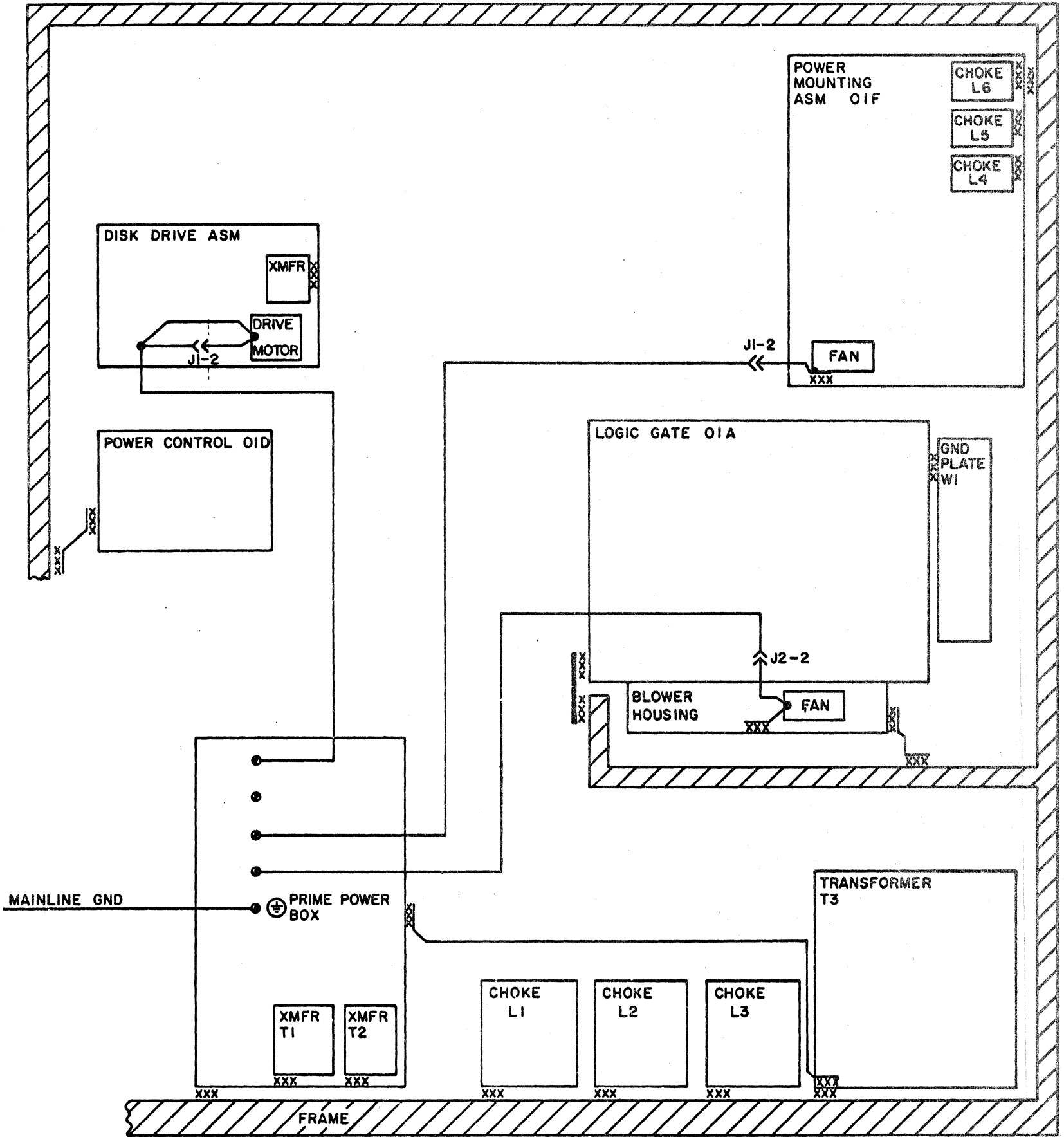
NOTES:

- 1 USE SCREW P/N 10170 (2) AND LOCK WASHER P/N 62031 (2) TO INSTALL PLATE.
- 2 WIRE MAY BE ON THE TERMINAL SPECIFIED.
- 3 CBI IS MOUNTED USING BRACKET P/N 5171863 AND 2 SCREWS P/N 381002.
- 4 ADD PATCH PANEL P/N 5182974 USING 2 SCREWS P/N 10170.

REFERENCE ONLY

2730493 C

PART NO 2730493 LOGIC PG NO YZ801



NOTES

- 1 SAFETY GROUND WIRING IS GREEN/YELLOW
- 2 EXTERNAL TOOTH STARWASHERS INSTALLED BETWEEN TERMINAL AND FRAME

LEGEND: XXX = EXTERNAL TOOTH STARWASHER

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	GROUND SCHEMATIC			REL	MAR 81		
DESIGN	JJS	JAN 81	SHT 1 OF 1				
DETAIL	RTS	JAN 81					
CHECK	CDN	JAN 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	MTL	JAN 81	JJS JAN 81				YZ801

2730493 C

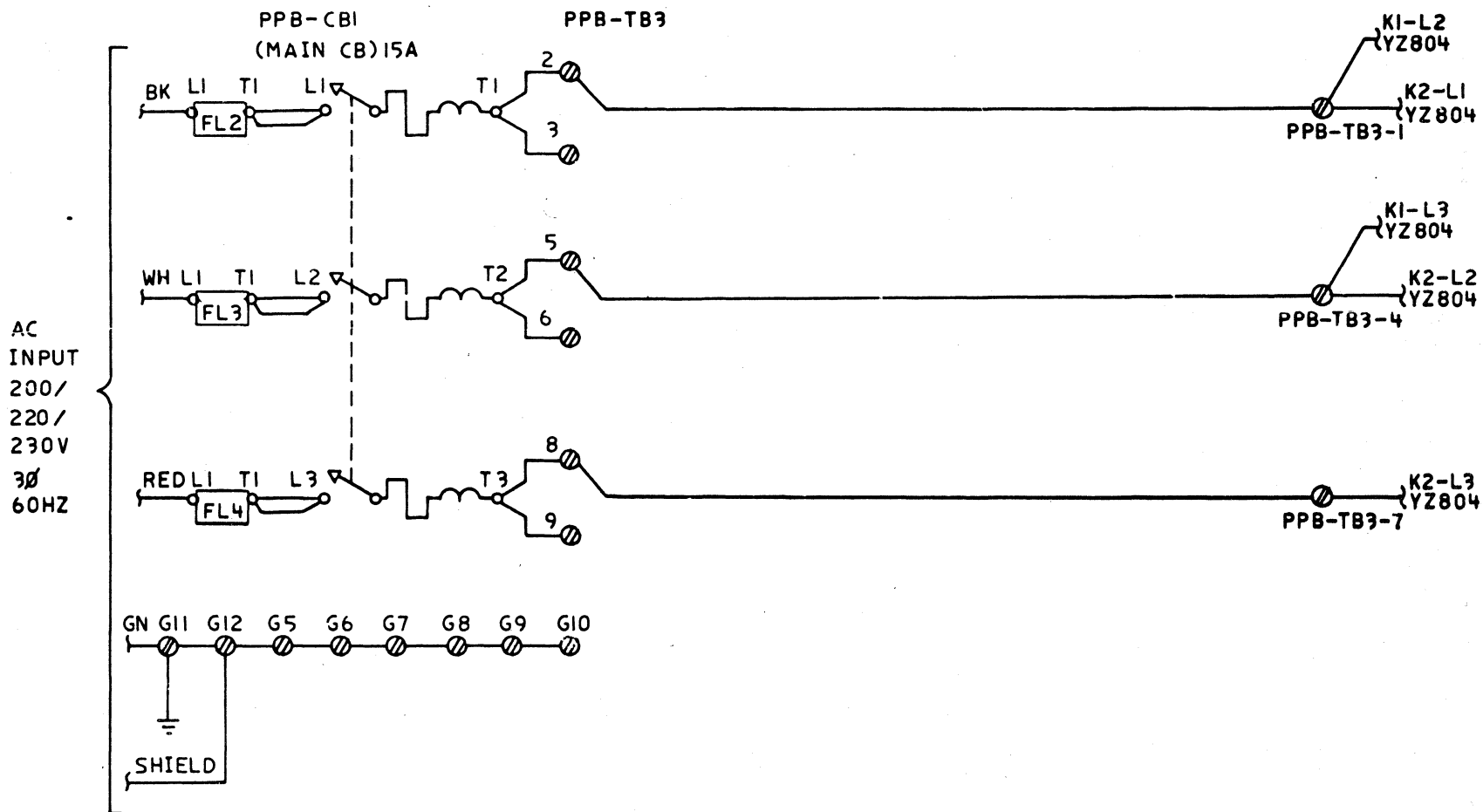
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1762940

PART NO
1762940

LOGIC PG NO
YZ802

208/230 60HZ



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	208/230 V 60 HZ (DOM)			MAR 80	322328		
				MAY 80	322331		
DESIGN	RD	DEC 79	SHT OF	OCT 80	344268		
DETAIL	LK	DEC 79		MAR 81	344614		
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO	
						YZ 802	

1762940

C

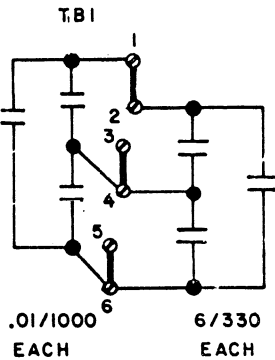
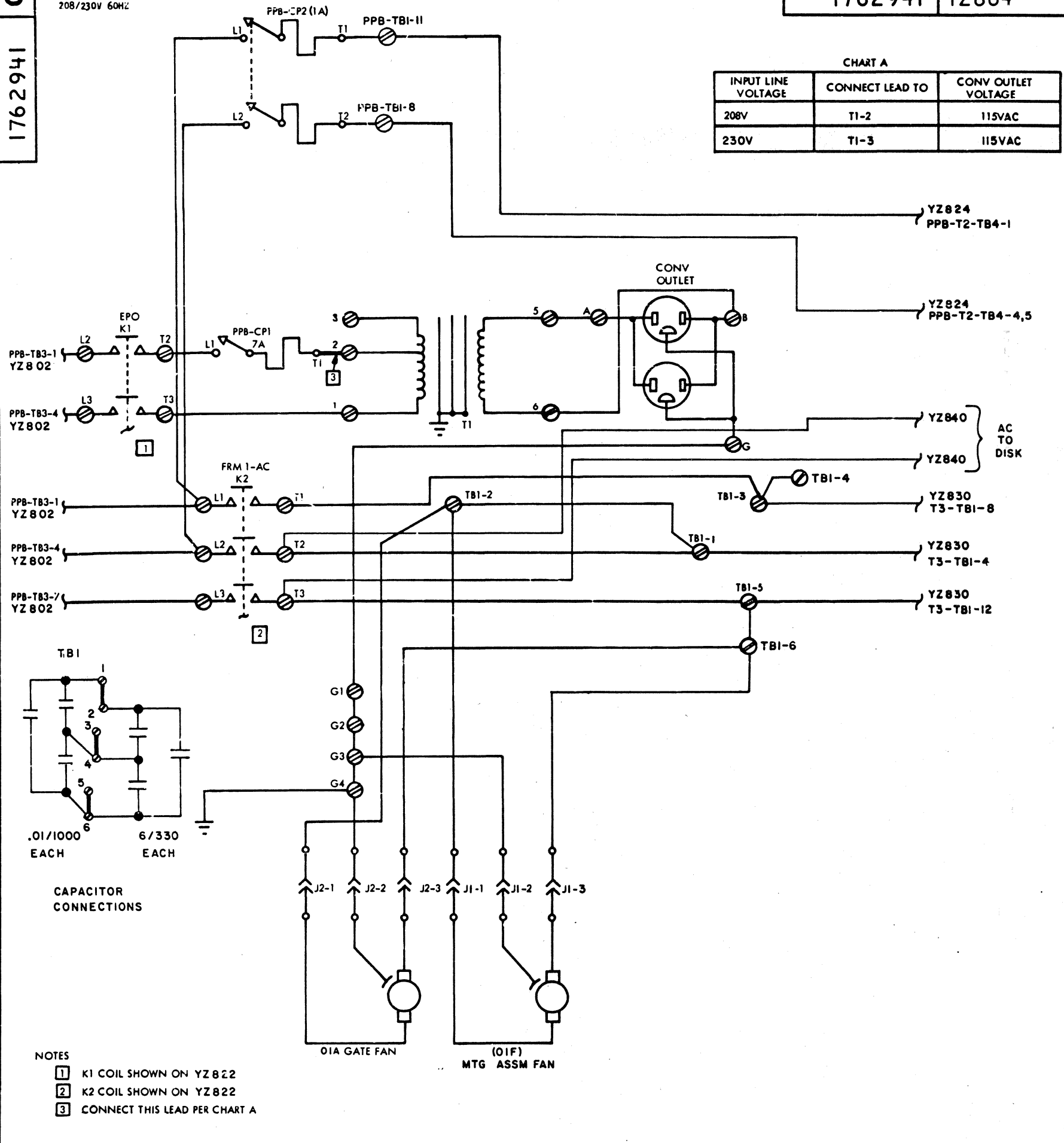
C
1762941

208/230V 60HZ

PART NO 1762941 LOGIC PG NO YZ804

CHART A

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



- NOTES
- 1 K1 COIL SHOWN ON YZ 822
 - 2 K2 COIL SHOWN ON YZ 822
 - 3 CONNECT THIS LEAD PER CHART A

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	208/230V 60 HZ (DOM)			MAR 80	322328		
				OCT 80	344268		
DESIGN	RD	DEC 79	SHT 1 OF 1	MAR 81	344614		
DETAIL	LK	DEC 79		JUN 81	344860		
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO YZ804	

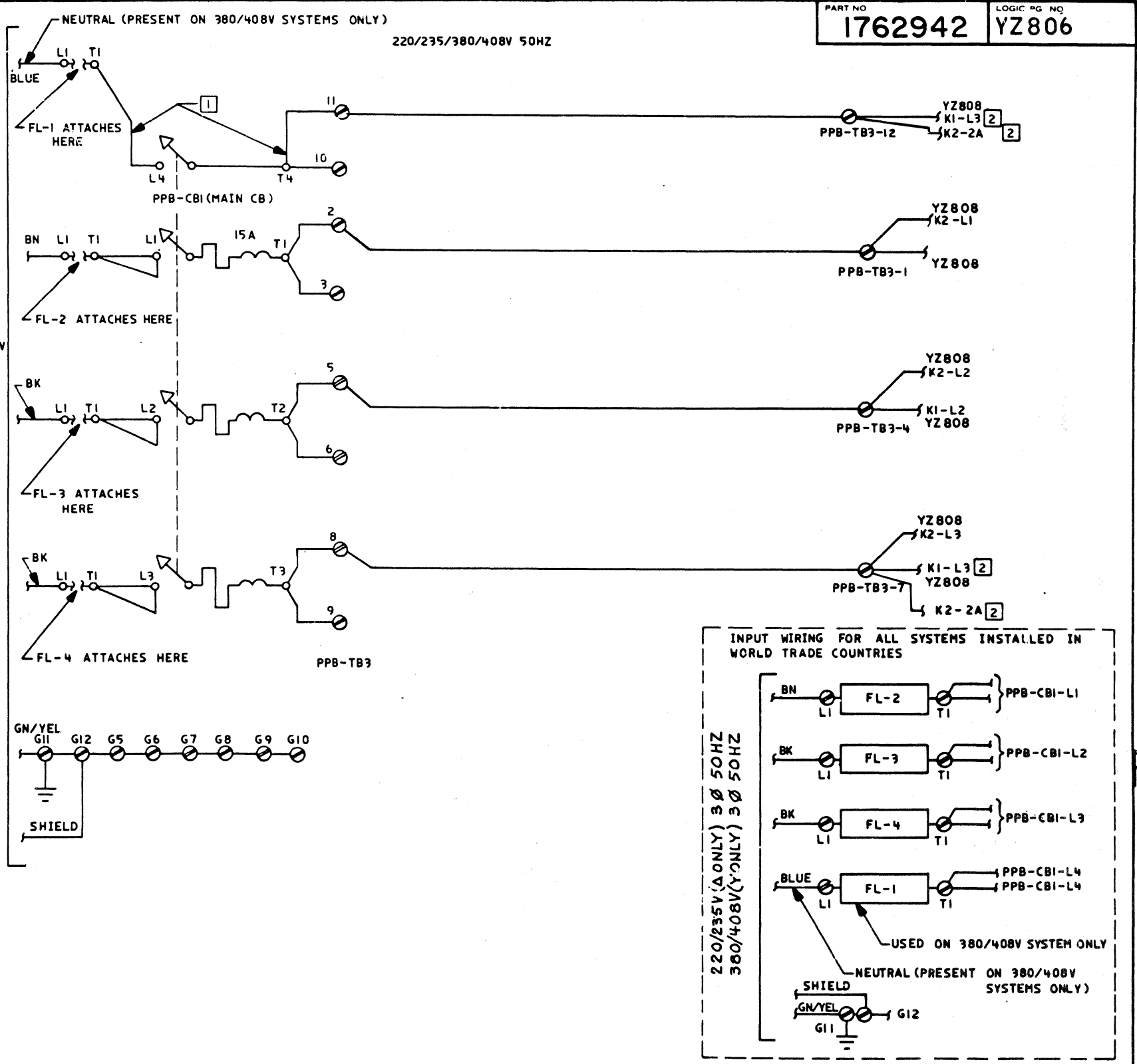
1762941
C

KSF 2-12-80 01037

1762942

C

PART NO **1762942** LOGIC PG NO **YZ806**



- NOTES
- 1 FOR 380/408 V SYSTEMS A FOUR POLE CIRCUIT BREAKER IS USED TO INTERRUPT THE NEUTRAL
 - 2 WIRE CONNECTS TO PPB-TB3-12 FOR ALL 380/408V MACHINES OR TO PPB-TB3-7 FOR ALL 220/235V 'A' MACHINES

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IBM				DATE	CHANGE NO	DATE	CHANGE NO	1762942
NAME				MAR 80	322328			
220 / 235 / 380 / 408 V 50 HZ				OCT 80	344268			
DESIGN	RD	DEC 79	SHT OF	MAR 81	344614			
DETAIL	LK	DEC 79						
CHECK	RD	JAN 80	CLASSIFIED BY	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO		
APPRO	AAM	JAN 80				YZ806		

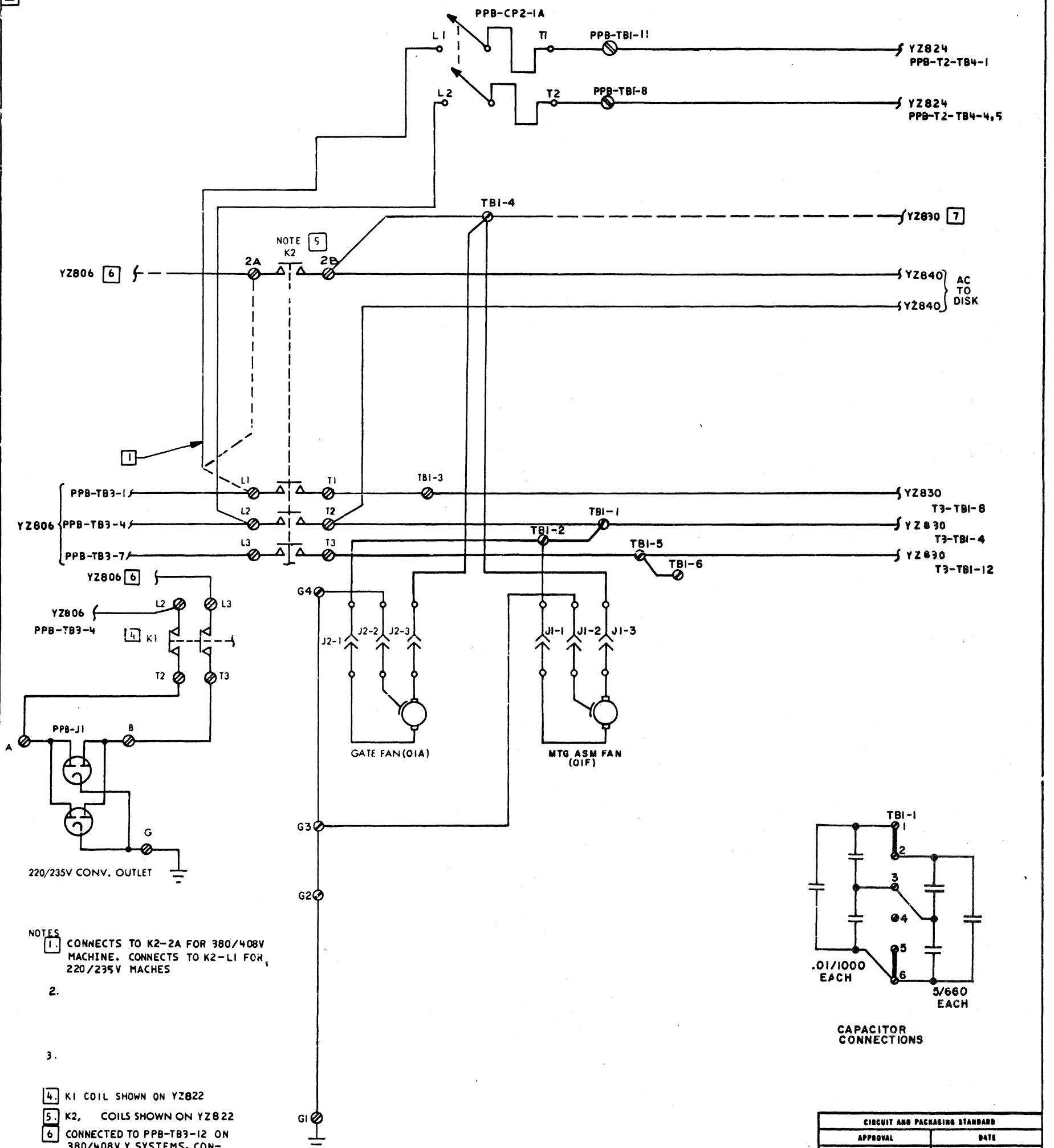
1762943

STANDARD CODE

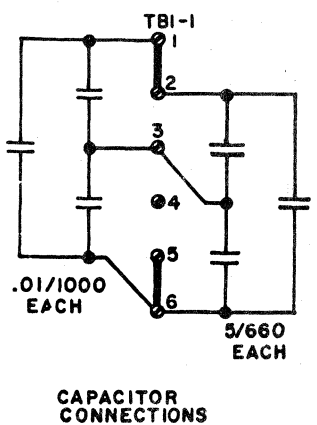
CARD CODE
1762943

YZ808

220V/235V/380V/408V 50 HZ



- NOTES
1. CONNECTS TO K2-2A FOR 380/408V MACHINE. CONNECTS TO K2-L1 FOR 220/235V MACHES
 - 2.
 - 3.
 4. K1 COIL SHOWN ON YZ822
 5. K2, COILS SHOWN ON YZ822
 6. CONNECTED TO PPB-TB3-12 ON 380/408V Y SYSTEMS, CONNECTED TO PPB-TB3-7 ON 220/235V A SYSTEMS
 7. THIS WIRE PRESENT ON 380/408V Y CONNECTED SYSTEMS ONLY. IT IS CONNECTED TO T3-TBI-10 ON 380V SYSTEM AND TO T3-TBI-9 ON 408V SYSTEMS



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	220/235/380/408V 50HZ			MAR 80	322328					
DESIGN	RD	DEC79	MODEL	MAY80	322331					
DETAIL	LK	DEC79	SCALE	DEC80	344268					
CHECK	RD	JAN80	DRAW	MAR81	344614					
APPRO	AAM	JAN80	CHECK	JUN81	344860					YZ808

455 2-12-80 21037

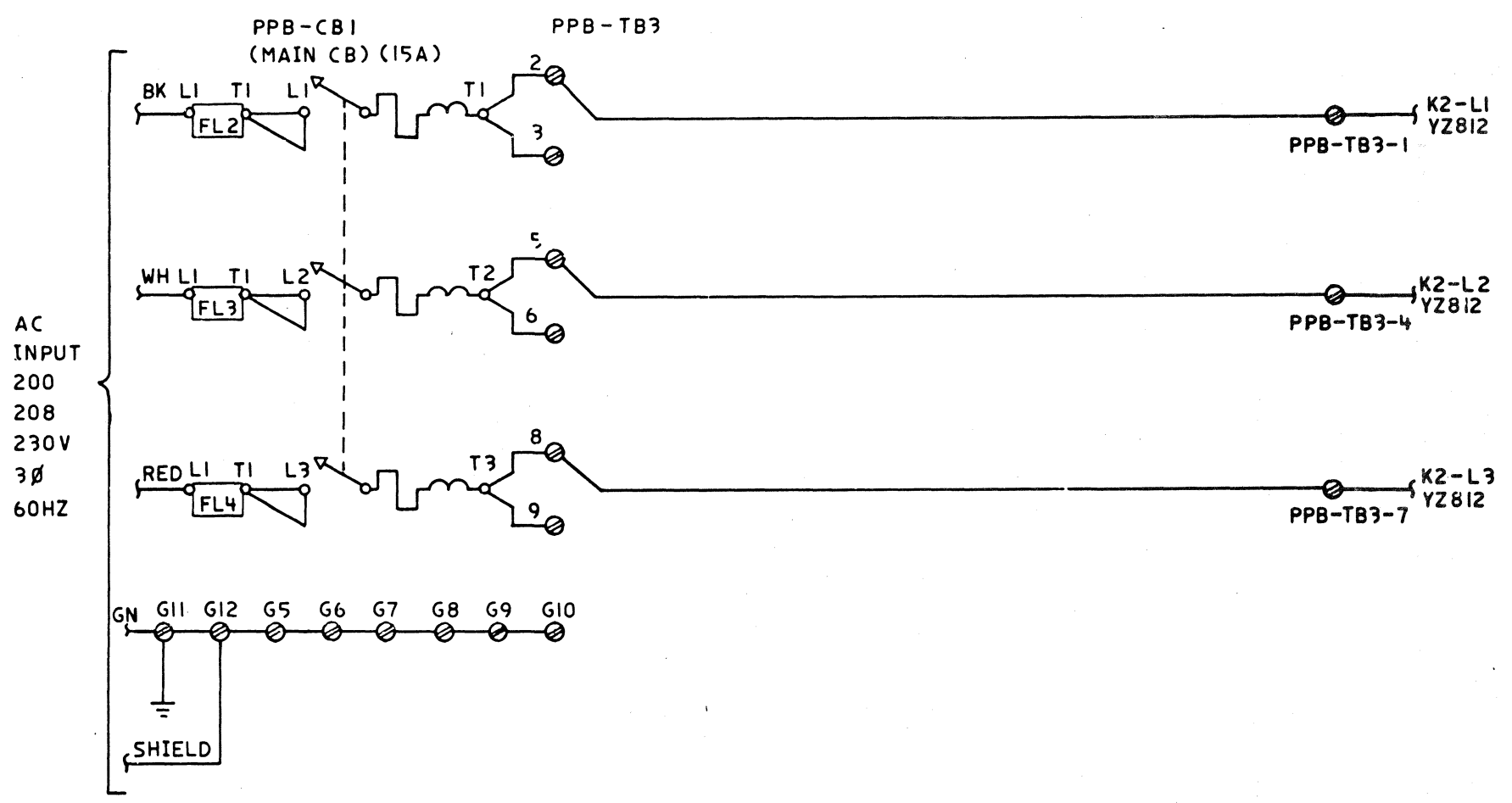
C

1762943

C
1762944

PART NO
1762944
LOGIC PG NO
YZ810

200V 60HZ JAPAN
208/230V/60HZ WTC



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	200 V 60 HZ JAPAN, 208/230 V			MAR 80	322328		
	60 HZ WTC			MAY80	322331		
DESIGN	RD	DEC 79	SHT 1 OF 1	OCT80	344268		
DETAIL	LK	DEC 79		MAR81	344614		
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	AAM	JAN80					YZ810

1762945

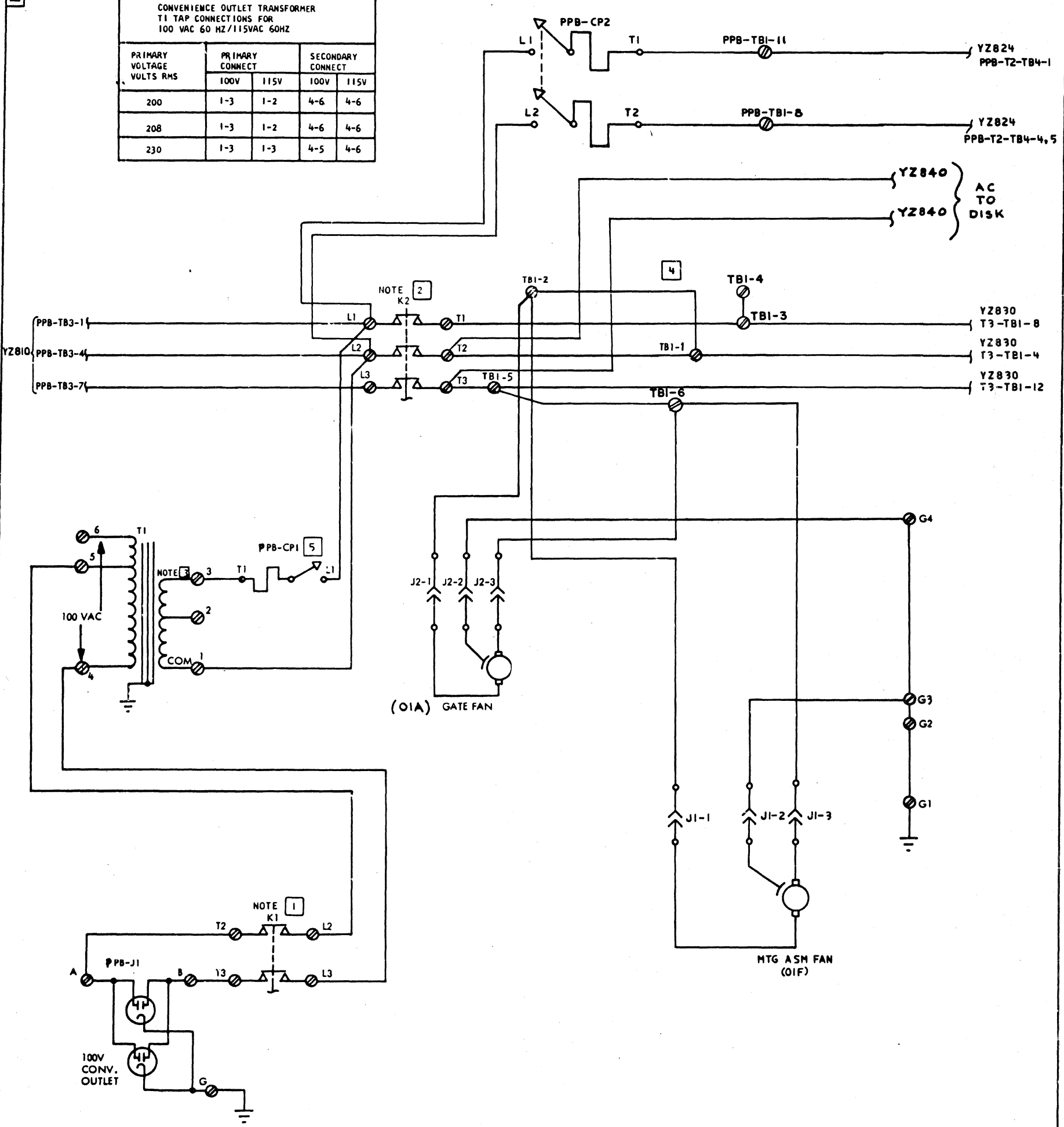
STANDARD CODE

CARD CODE YZ812
1762945

200V 60HZ JAPAN
208/230V 60HZ W.T.C.

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



- NOTES:
- 1. K1 COIL SHOWN ON YZ822
 - 2. K2 COIL SHOWN ON YZ822
 - 3. REFER TO CHART A FOR T1 TAP CONNECTIONS
 - 4. SEE YZ804 FOR TBI CAPACITOR CONNECTIONS
 - 5. 3A FOR 200V, 7A FOR 208/230V

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.				MAR 80	322328					
DESIGN RD DEC 79 MODEL				OCT 80	344268					
DETAIL L K DEC 80 SCALE				MAR 81	344614					
CHECK RD JAN 80 DRAW				JUN 81	344860					
APPRO AAM JAN 80 CHECK										YZ812

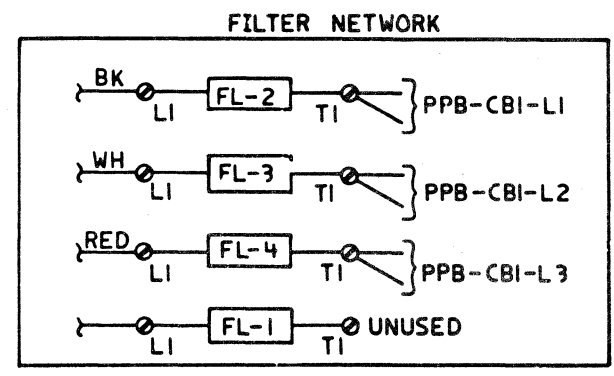
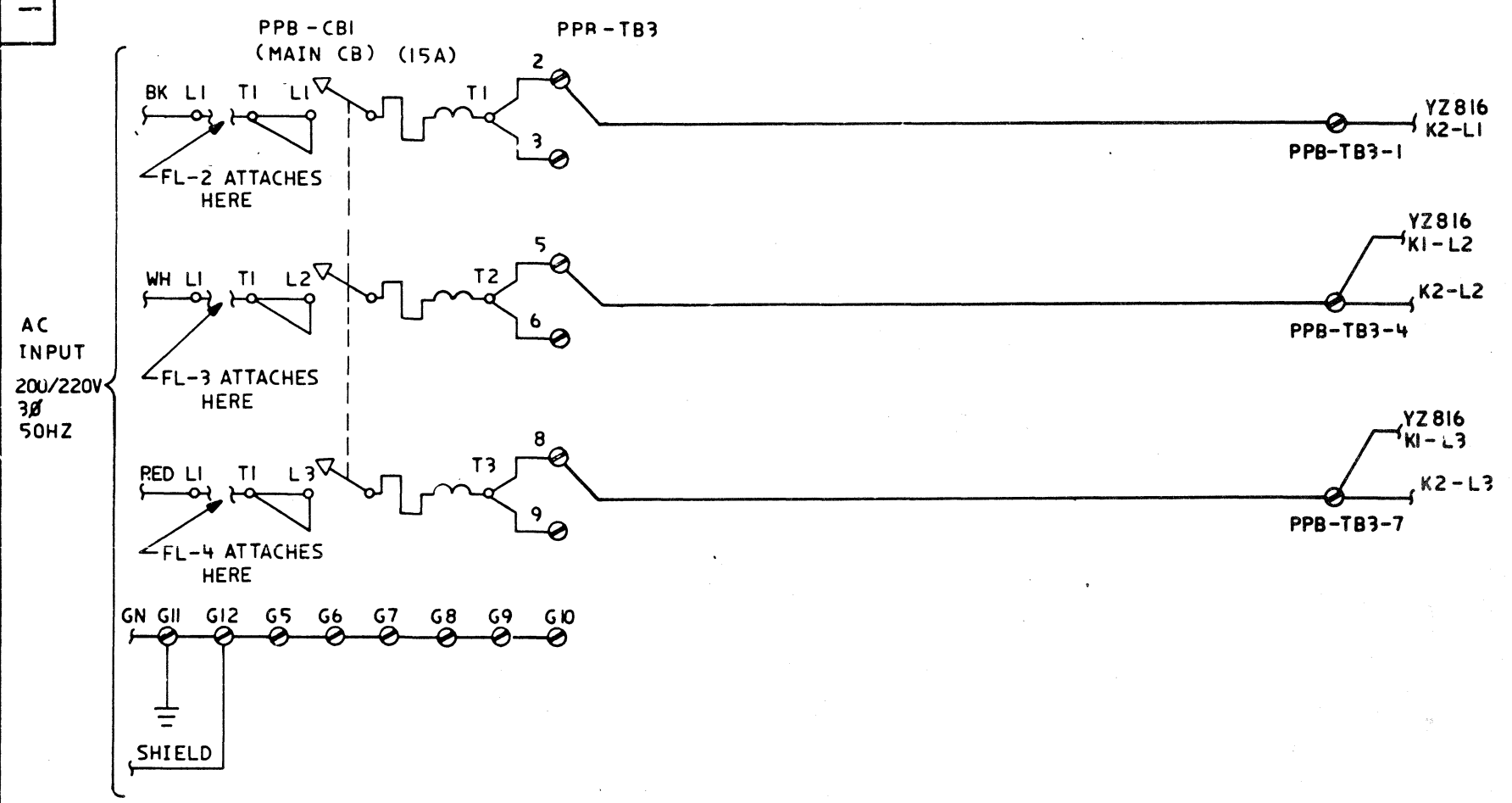
KSF 3-12 C. P1037

C

1762946
C

PART NO 1762946 LOGIC PG NO YZ814

200/220V 50HZ JAPAN

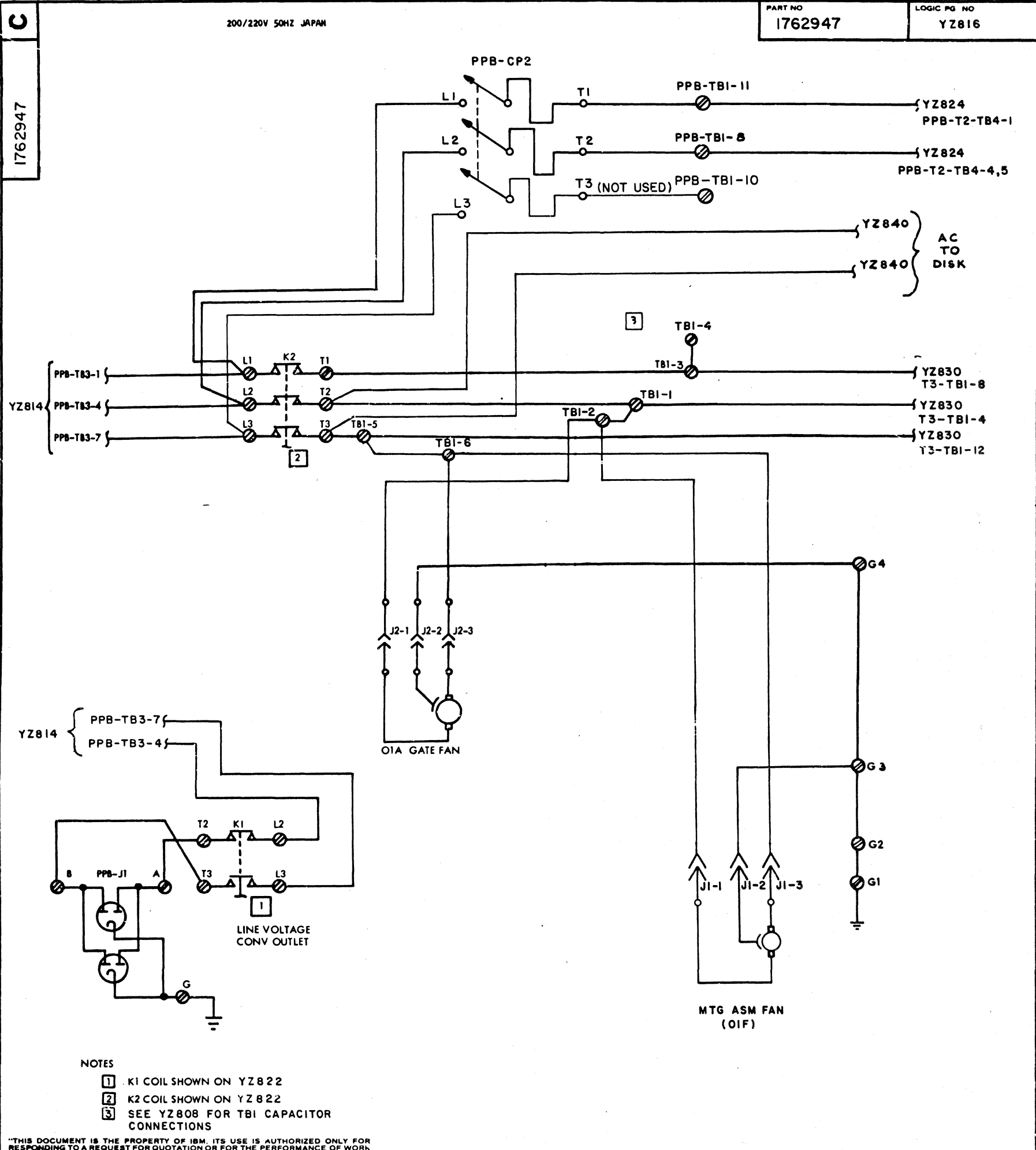


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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	200/220V 50HZ JAPAN			MAR 80	322328		
				OCT 80	344268		
DESIGN	RD	DEC 79	SHT OF	MAR 81	344614		
DETAIL	LK	DEC 79					
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO	
						YZ814	

1762946
C

KSF 3-12-80 21037



- NOTES
- 1 K1 COIL SHOWN ON YZ822
 - 2 K2 COIL SHOWN ON YZ822
 - 3 SEE YZ808 FOR TBI CAPACITOR CONNECTIONS

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IBM				DATE	CHANGE NO	DATE	CHANGE NO	1762947
NAME		200/220V 50 HZ JAPAN		MAR 80	322328			
				OCT80	344268			
DESIGN	RD	DEC 79	SHT 1 OF 1	MAR81	344614			
DETAIL	LK	DEC 79		JUN81	344860			
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO		LOGIC PG NO
APPRO	AAM	JAN 80						YZ 816

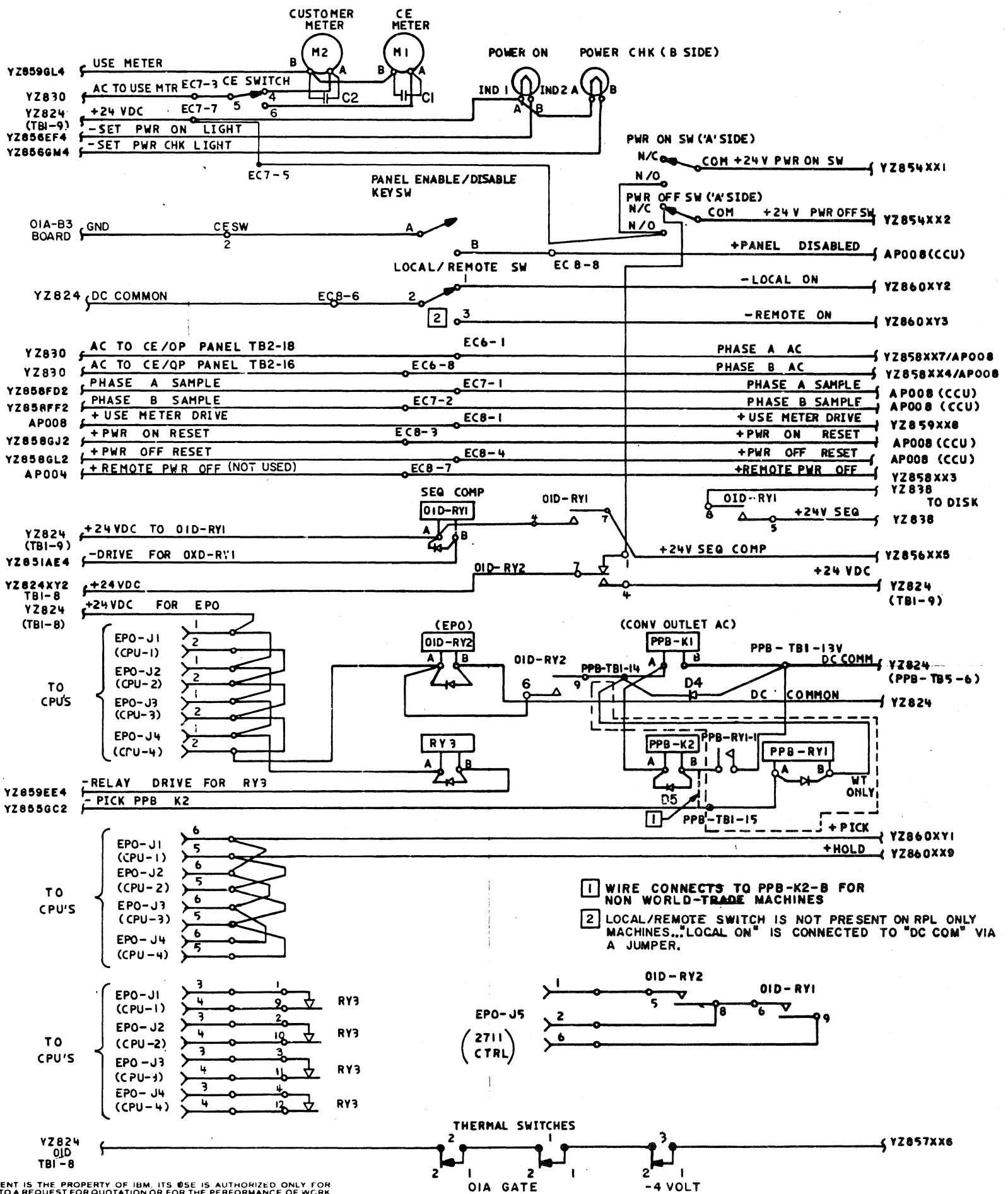
1. KSF 3-12-80 #1237

1762948 C

PART NO
1762948

LOGIC PG NO
YZ822

CE/OP PANEL, METER, RELAYS AND EPO WIRING



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				MAR80	322328	JUN81	344860
AND EPO WIRING				MAY80	322331	JAN82	344836
DESIGN	RD	DEC 79	SHEET OF 1	OCT80	344268		
DETAIL	LK	DEC 79		MAR81	344614		
CHECK	RD	JAN 80		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO	
						YZ822	

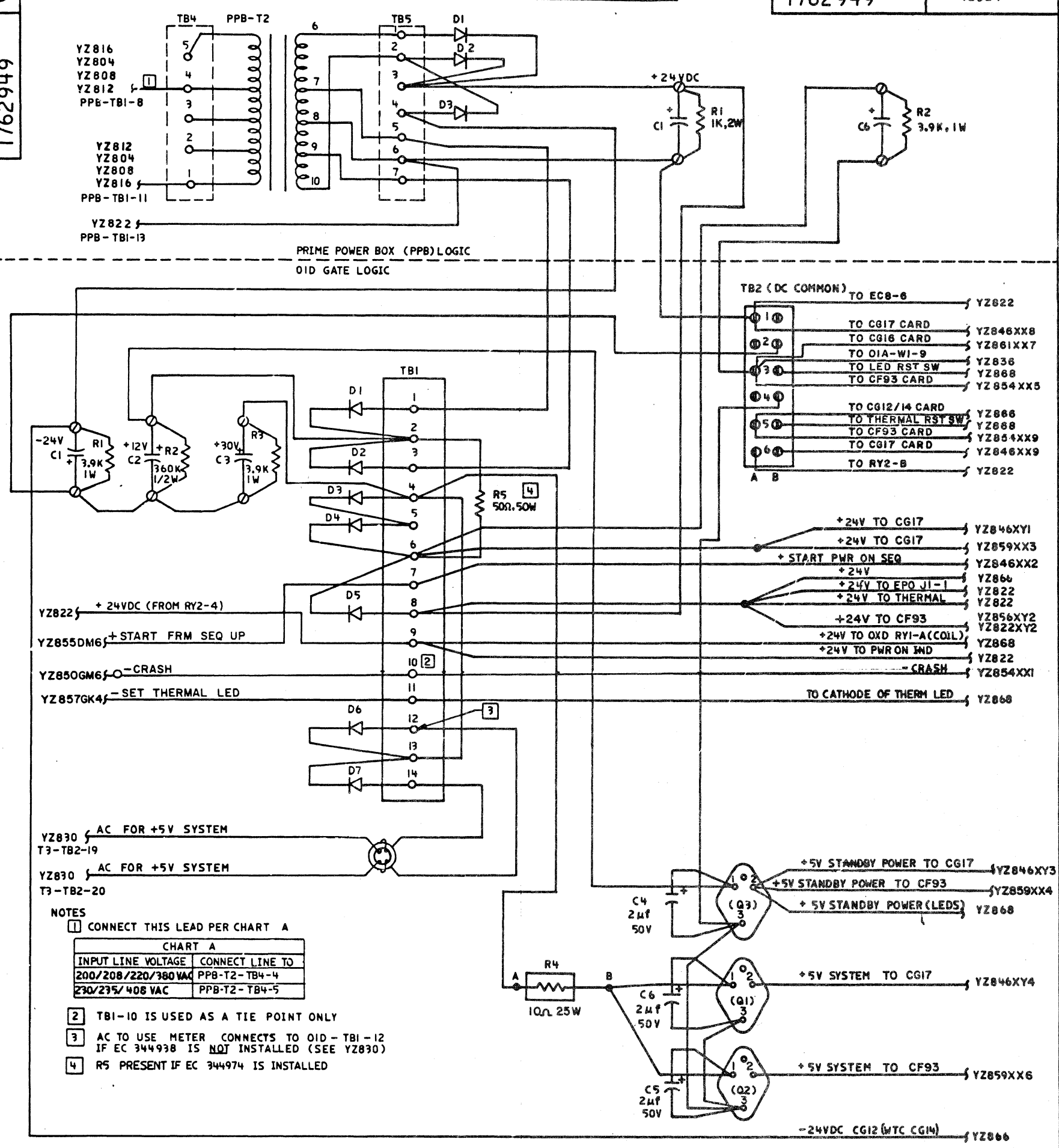
1762948 C

KSF 3-12-80 21337

C
1762949

BIAS AND STANDBY POWER SUPPLIES

PART NO: 1762949
LOGIC PG NO: YZ824



NOTES

- 1 CONNECT THIS LEAD PER CHART A
- | CHART A | |
|---------------------|-----------------|
| INPUT LINE VOLTAGE | CONNECT LINE TO |
| 200/208/220/380 VAC | PPB-T2-TB4-4 |
| 230/235/408 VAC | PPB-T2-TB4-5 |
- 2 TBI-10 IS USED AS A TIE POINT ONLY
 - 3 AC TO USE METER CONNECTS TO OID-TBI-12 IF EC 344938 IS NOT INSTALLED (SEE YZ830)
 - 4 R5 PRESENT IF EC 344974 IS INSTALLED

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				MAR80	322328	JUL81	344860
BIAS AND STANDBY POWER SUPPLIES				MAY80	322331	FEB82	344836
DESIGN	RD	DEC79	SHT OF 1	OCT80	344268		
DETAIL	LK	DEC79		MAR81	344614		
CHECK	RD	JAN80		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN80				LOGIC PG NO	
						YZ824	

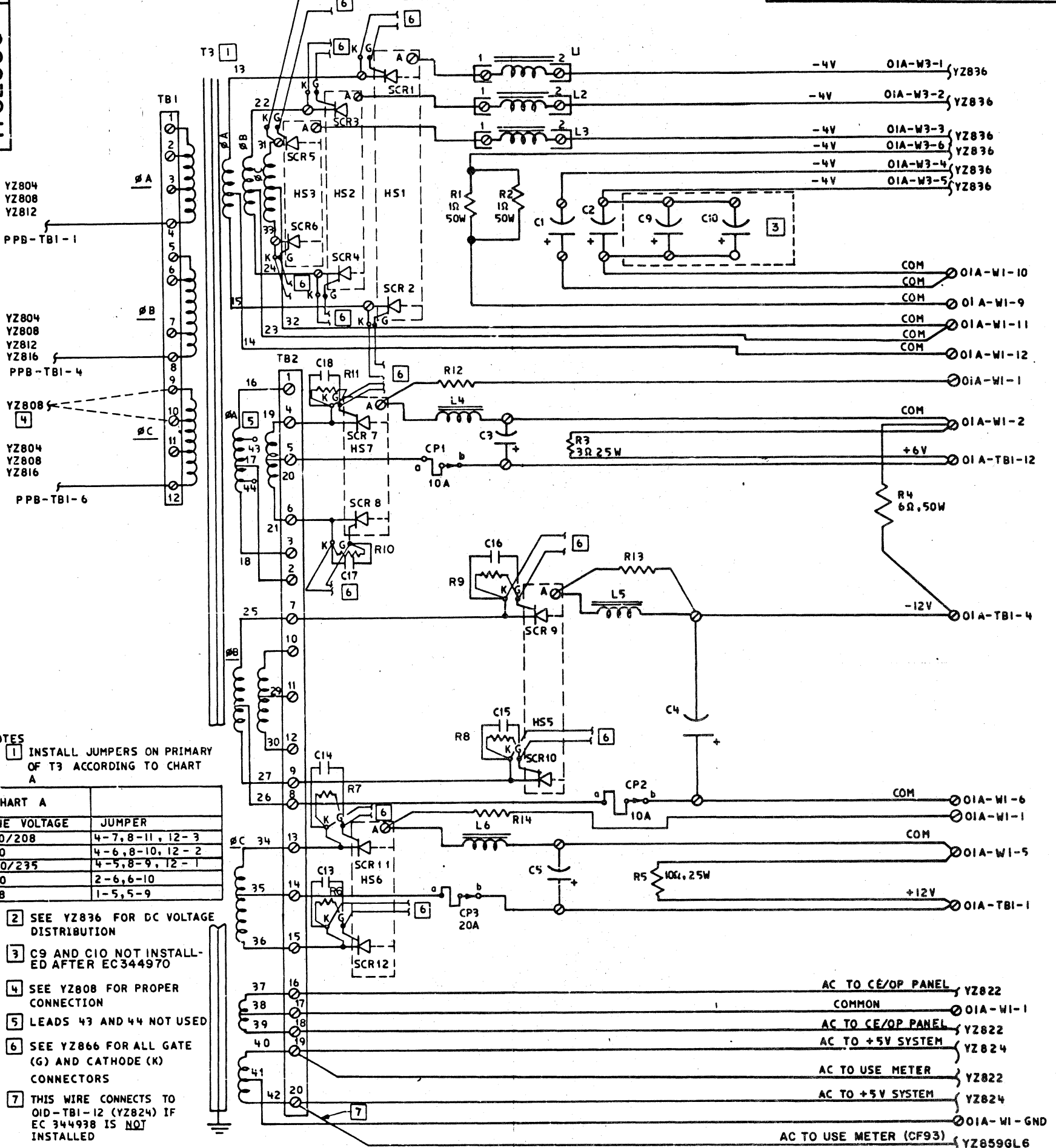
1762949
C

KSF 3-12-80 1737

1762950

PART NO. 1762950 LOGIC PG. NO. YZ830

DC POWER SUPPLIES



NOTES
 1 INSTALL JUMPERS ON PRIMARY OF T3 ACCORDING TO CHART A

LINE VOLTAGE	JUMPER
200/208	4-7, 8-11, 12-3
220	4-6, 8-10, 12-2
230/235	4-5, 8-9, 12-1
380	2-6, 6-10
408	1-5, 5-9

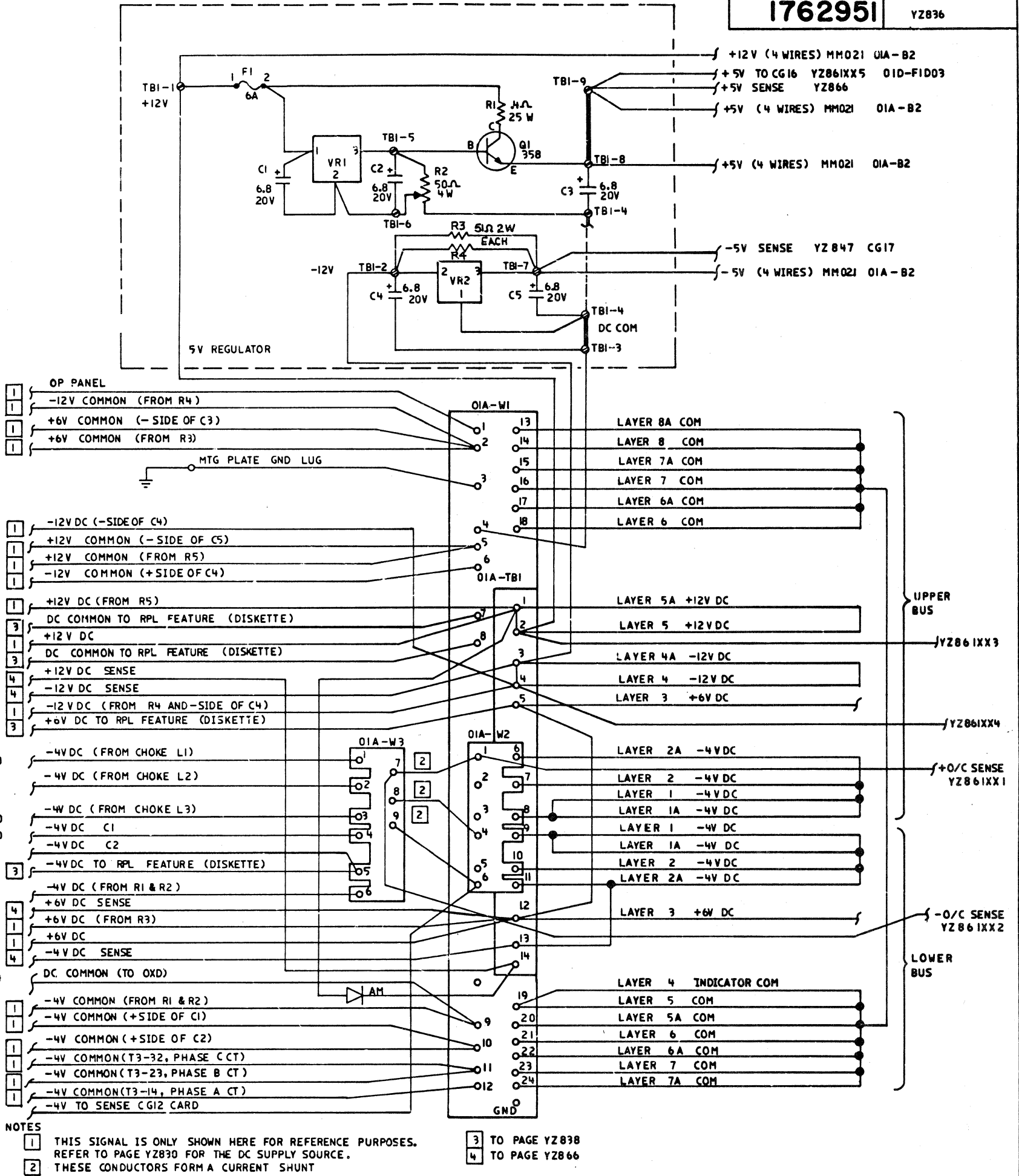
- 2 SEE YZ836 FOR DC VOLTAGE DISTRIBUTION
- 3 C9 AND C10 NOT INSTALLED AFTER EC344970
- 4 SEE YZ808 FOR PROPER CONNECTION
- 5 LEADS 43 AND 44 NOT USED
- 6 SEE YZ866 FOR ALL GATE (G) AND CATHODE (K) CONNECTORS
- 7 THIS WIRE CONNECTS TO OIA-TBI-12 (YZ824) IF EC 344938 IS NOT INSTALLED

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				DATE	CHANGE NO	DATE	CHANGE NO	1762950
NAME	DC POWER SUPPLIES:			MAR 80	322328	JAN82	344836	C
	-4, ±12, +6.			OCT80	344268			
DESIGN	RD	DEC 79	SHT 1 OF 1	MAR81	344614			
DETAIL	LK	DEC79		JUL81	344860			
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO		
APPRO	AAM	JAN 80	TS NOV79			LOGIC PG NO		
							YZ830	

1762951 C

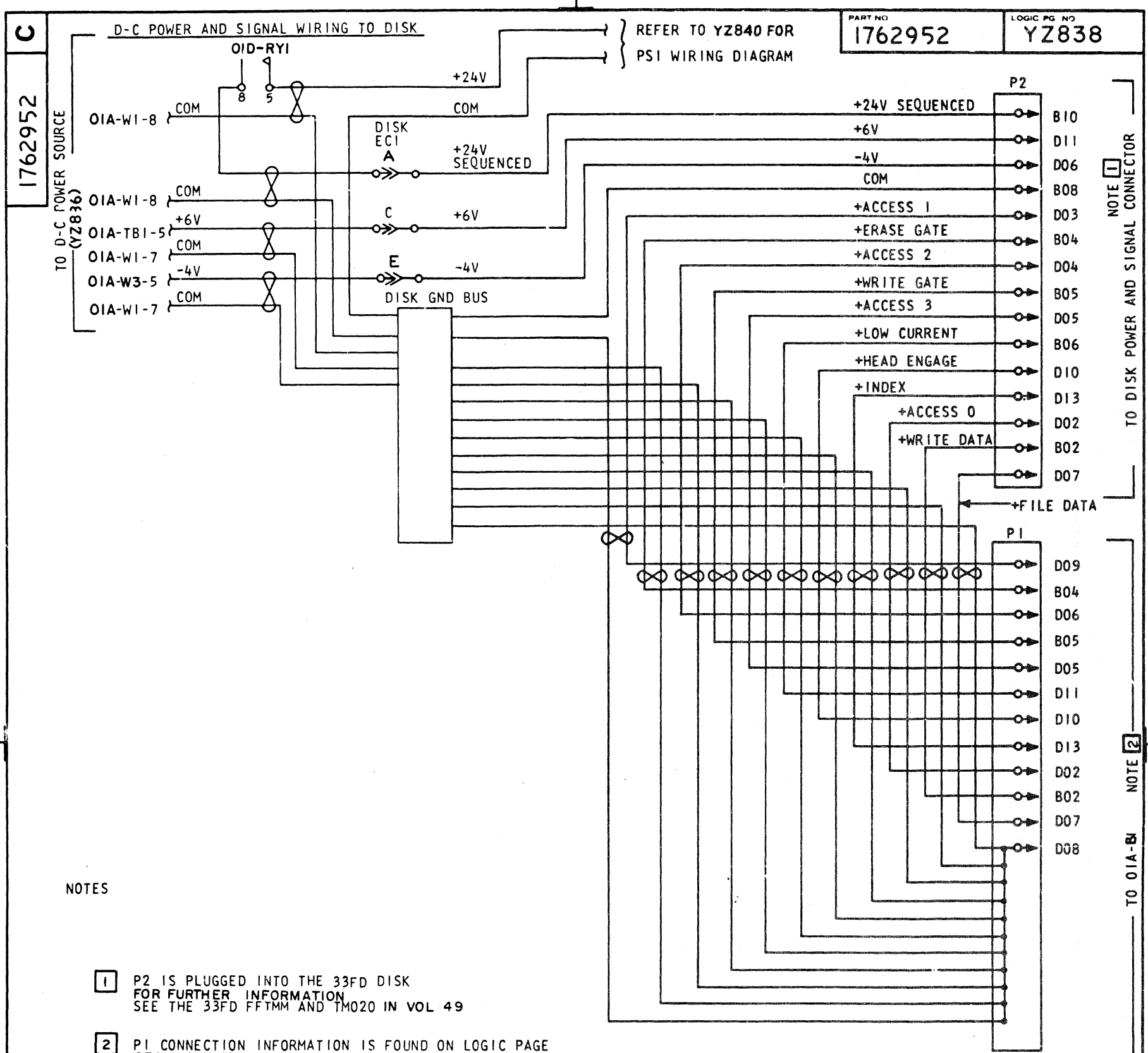
PART NO: **1762951** LOGIC PG. NO: **YZ836**



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME DC DISTRIBUTION				SEE EC HISTORY			
				JUN 81	344860		
DESIGN	RD	DEC 79	SHT 1 OF 1	RED	FEB 82	344836	
DETAIL	GT	FEB 82					
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	AAM	JAN 80	RD DEC 79				YZ836

1762951 C



NOTES

- 1 P2 IS PLUGGED INTO THE 33FD DISK FOR FURTHER INFORMATION SEE THE 33FD FFTMM AND TM020 IN VOL. 49
- 2 P1 CONNECTION INFORMATION IS FOUND ON LOGIC PAGE GEO30 IN VOL. 49

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IBM				DATE	CHANGE NO.	DATE	CHANGE NO.
NAME				MAR 80	322328		
WIRING TO DISK				OCT 80	344268		
DESIGN	RD	DEC 79	SHT 1 OF 1	MAR 81	344614		
DETAIL	LK	DEC 79		JUN 81	344860		
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	AAM	JAN 80					YZ838

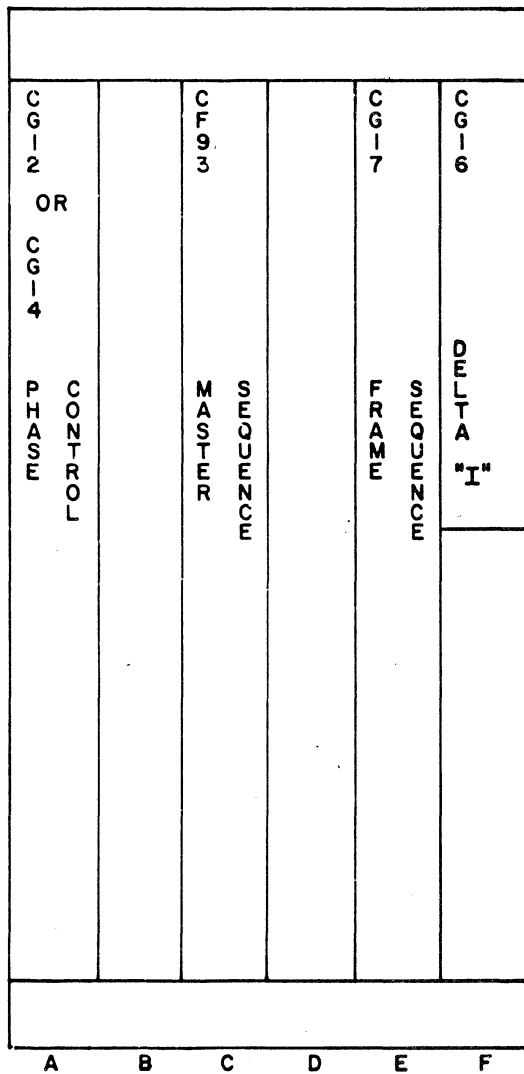
C

1762953

PART NO
1762953

LOGIC PG NO
YZ844

TYPE	CARD P/N	SOCKET	LOGIC REFERENCE
CG12 60HZ	6173426	AI	YZ866
OR CG14 50HZ	6173425	AI	YZ866
CF93	8254648	CI 1	YZ854 - YZ860
CG17	6173290	EI 2	YZ846 - YZ853
CG16	8254653	FI	YZ861 - YZ863



CAUTION
TURN OFF PPB-CBI BEFORE
REPLACING CARDS IN THE
OID GATE

NOTE
1 P/N 6173592 AFTER EC 344958
2 P/N 6173694 AFTER EC 344344

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SOCKET LISTING FOR			MAR80	322328	JAN82	344836
OID GATE				OCT80	344268		
DESIGN	RD	DEC 79	SHT 1 OF 1	MAR81	344614		
DETAIL	LK	DEC 79		JUN81	344860		
CHECK	RD	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO	
						YZ844	

1762953

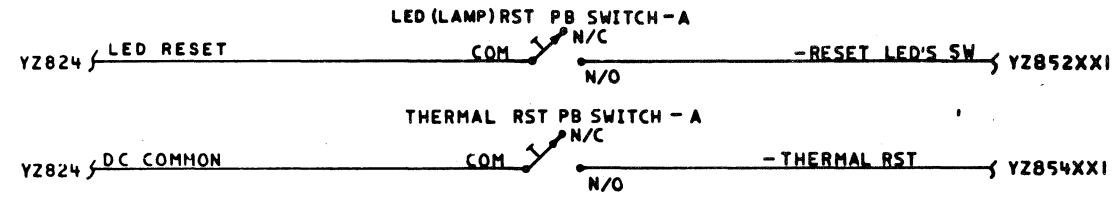
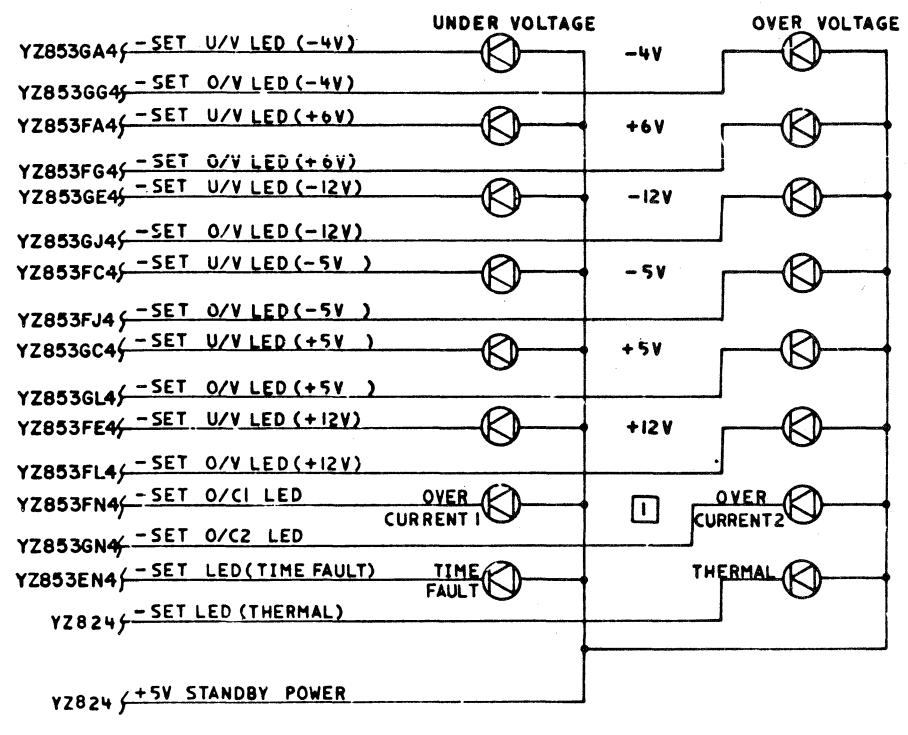
C

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1762954

PART NO
1762954

LOGIC PG NO
YZ868

OID PANEL LED'S AND SWITCHES



NOTE
□ NOT USED

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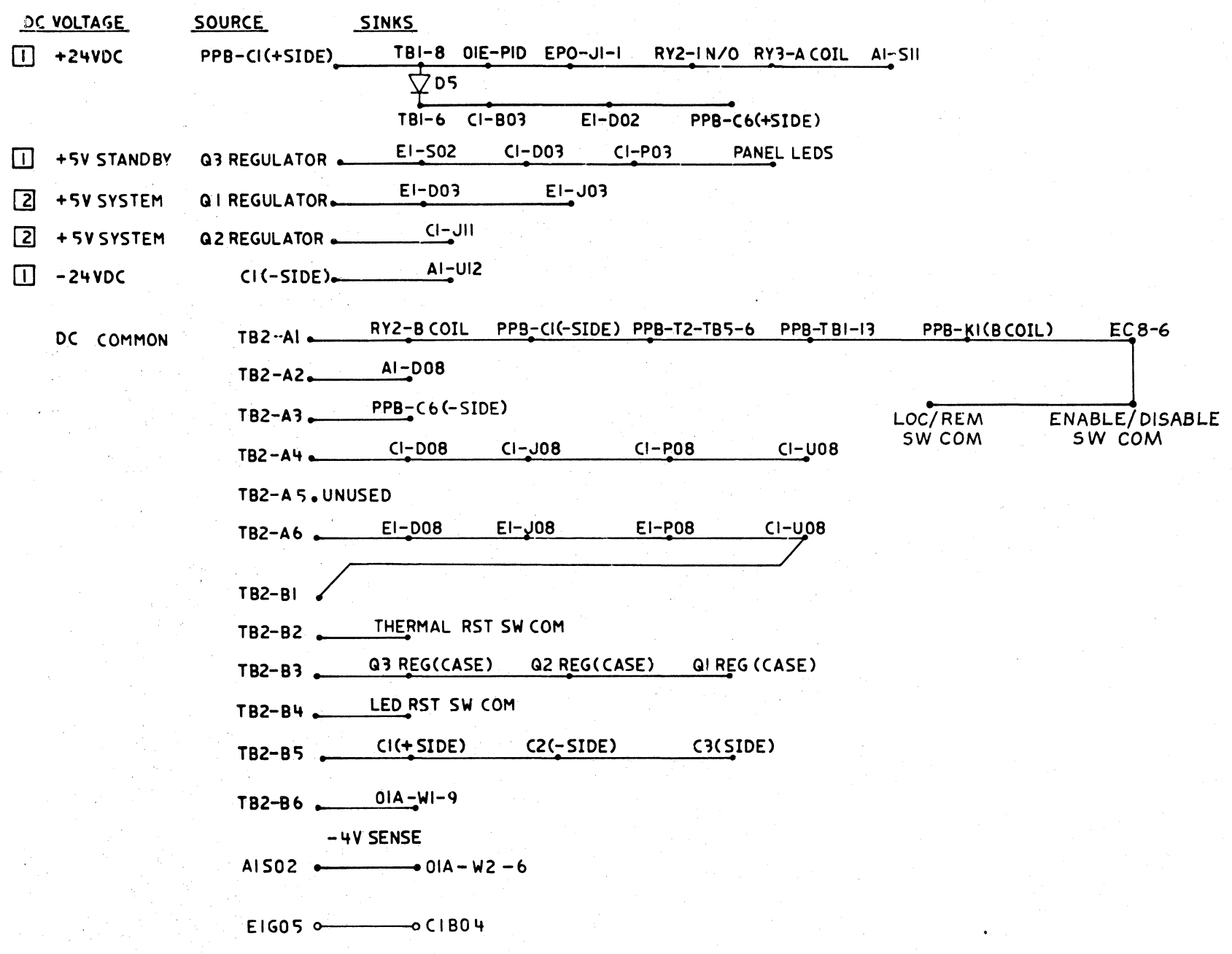
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	OID PANEL LED LAMPS			MAR 80	322328		
	AND SWITCHES			OCT80	344268		
DESIGN	RD	DEC 79	SHEET OF 1	MAR81	344614		
DETAIL	LK	DEC 79					
CHECK	RD	JAN 80		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO	
						YZ868	

1762954
C

KSF 3-12-80 D1737

1762955

OID-GATE

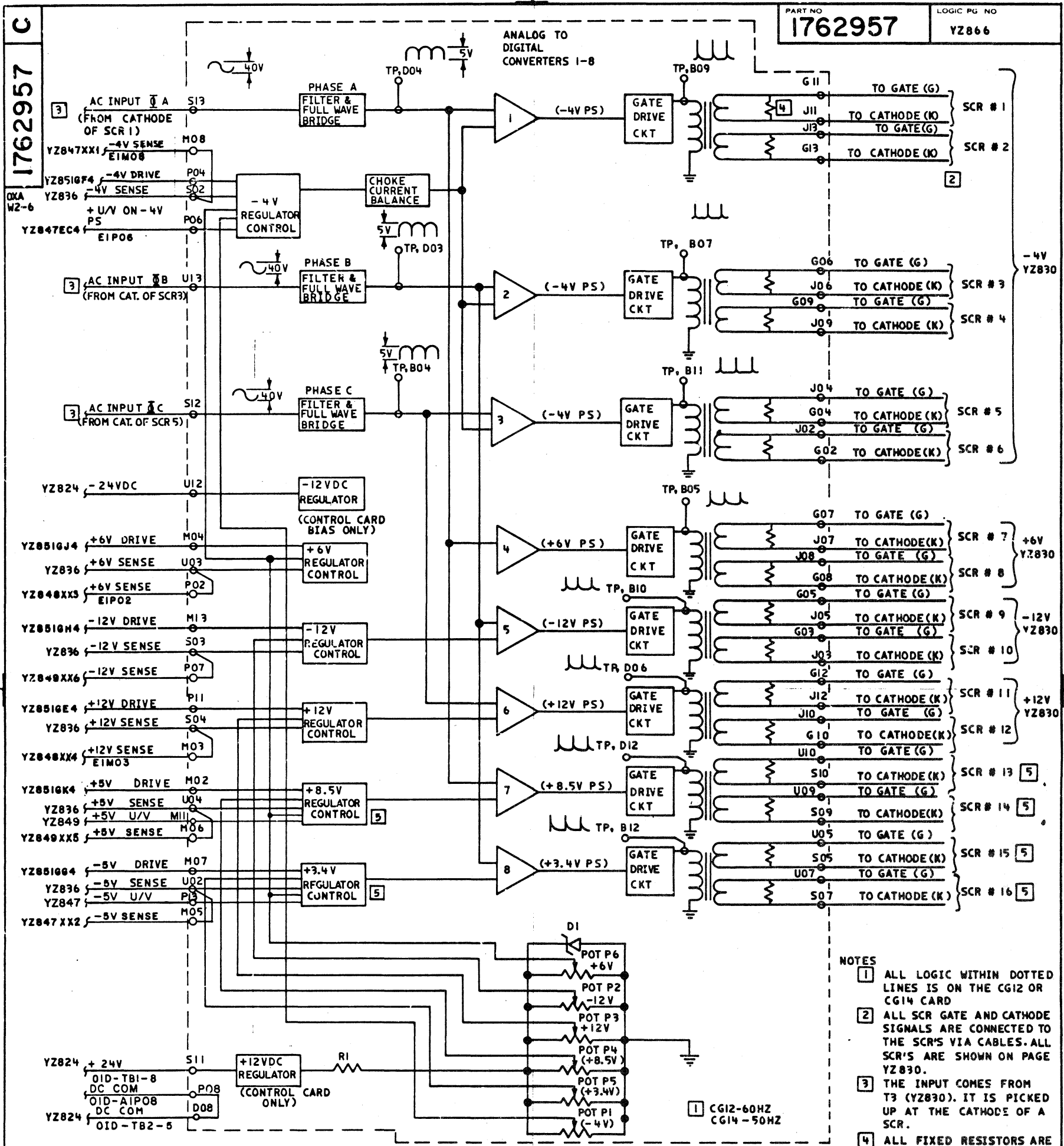


- NOTES**
- 1 THIS VOLTAGE IS AVAILABLE ANYTIME THAT CBI IS NOT TRIPPED. IT IS AVAILABLE EVEN WHEN THE 3705 IS POWERED DOWN.
 - 2 THIS VOLTAGE IS AVAILABLE ONLY AFTER THE POWER-ON PUSH BUTTON HAS BEEN DEPRESSED. IT IS NOT AVAILABLE WHEN THE 3705 IS NOT POWERED UP.

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NAME		DATE	CHANGE NO.	DATE	CHANGE NO.
OID GATE D.C.		MAR 80	322328		
VOLTAGE NETS LIST		OCT 80	344268		
DESIGN	RD	DEC 79			
DETAIL	LK	DEC 79			
CHECK	RD	JAN 80			
APPROV	AAM	JAN 80			
			DEVELOPMENT NO.	LOGIC PG NO.	
				YZ870	

1762955
C



- NOTES
- 1 ALL LOGIC WITHIN DOTTED LINES IS ON THE CG12 OR CG14 CARD
 - 2 ALL SCR GATE AND CATHODE SIGNALS ARE CONNECTED TO THE SCR'S VIA CABLES. ALL SCR'S ARE SHOWN ON PAGE YZ830.
 - 3 THE INPUT COMES FROM T3 (YZ830). IT IS PICKED UP AT THE CATHODE OF A SCR.
 - 4 ALL FIXED RESISTORS ARE 200Ω.
 - 5 NOT USED IN THIS MODEL

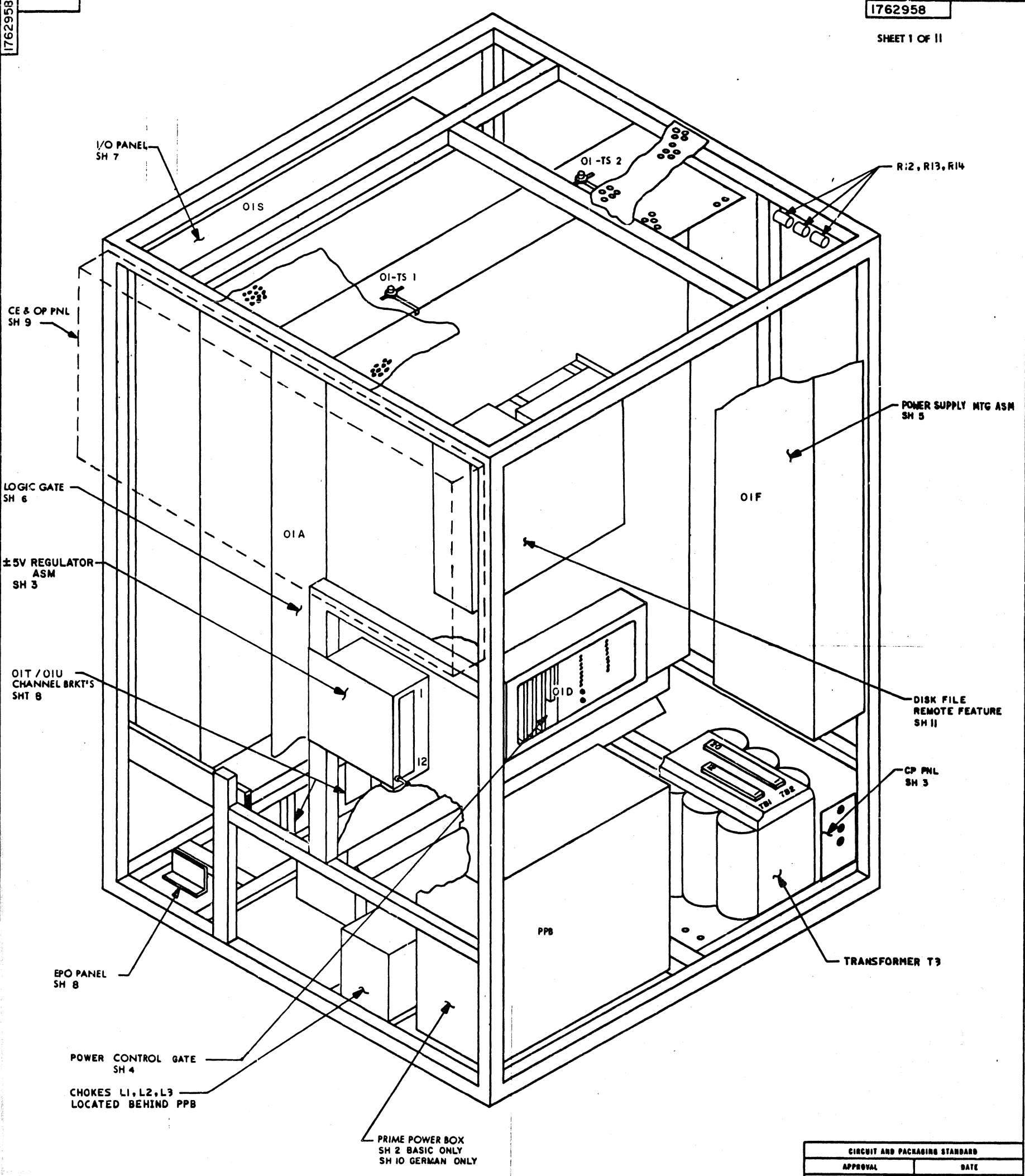
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IBM				DATE	CHANGE NO	DATE	CHANGE NO	1762957 C
NAME				MAR 80	322328	FEB 82	344836	
CARD OI D AI AI				OCT 80	344268			
DESIGN	RD	DEC 79	SHT 1 OF 1	MAR 81	344614			
DETAIL	LK	DEC 79		JUN 81	344860			
CHECK	RD	JAN 80		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO	
APPRO	AAM	JAN 80					YZ866	

K-S-F 3-12-80 21237

STANDARD CODE
1762958

CARD CODE YZ886
1762958
SHEET 1 OF 11



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAR80	322328		JAN82	344836		
COMPONENT LOCATION				MAY80	322331					
DESIGN	AAM	JAN80		OCT80	344268					
DETAIL	JVB	JAN80	SCALE NONE	MAR81	344614					
CHECK	AAM	JAN80	DRAW	JUN81	344860					YZ886
APPRO	AAM	JAN80	CHECK							

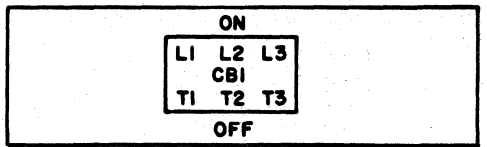
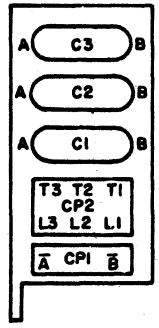
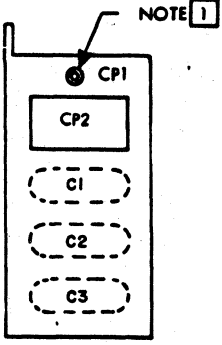
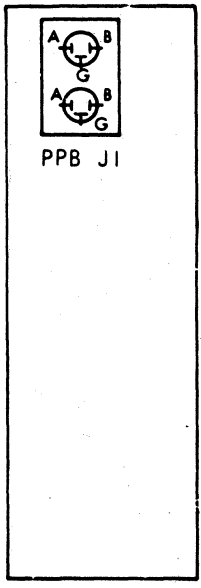
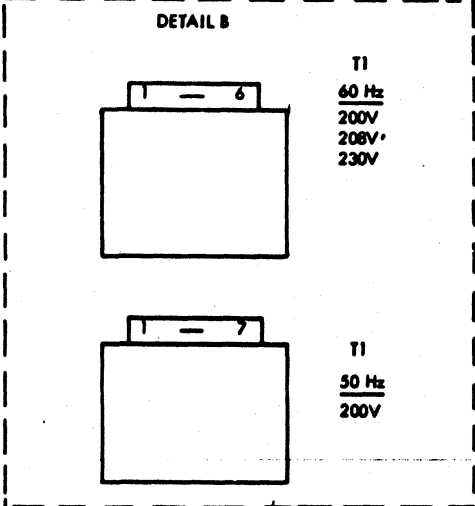
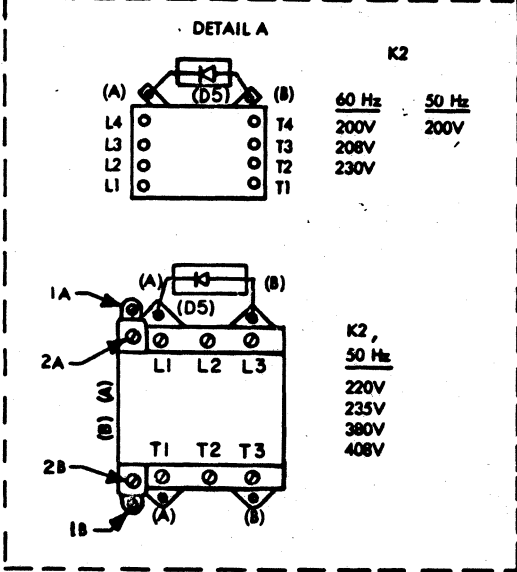
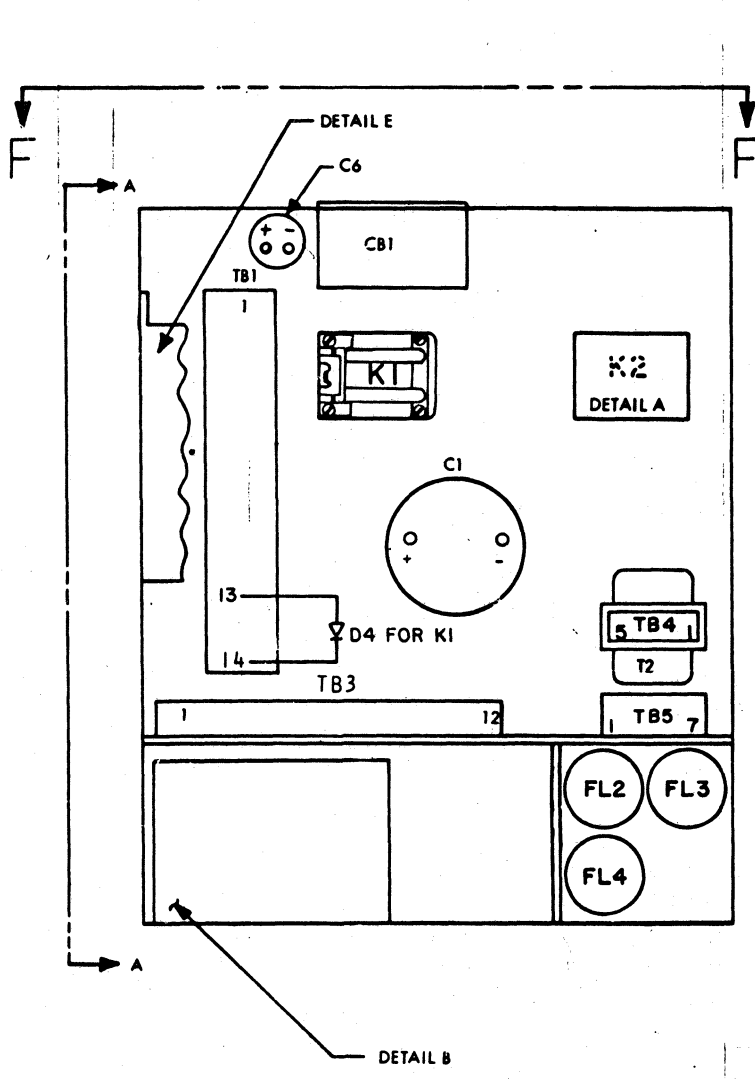
C

1762958
STANDARD CODE

CARD CODE
1762958
YZ886

PRIME POWER BOX (PPB)
(DOMESTIC)

SHEET 2 OF 11



VIEW F-F

DETAIL E

VIEW A-A

NOTES

1. PRESENT FOR 60 Hz 200V, 208V, 230V.

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAR80	322328		JAN82	344836		
COMPONENT LOCATION				MAY80	322331					
DESIGN	AAM	JAN80	MODEL	OCT80	344268					
DETAIL	JVB	JAN80	SCALE	MAR81	344614					
CHECK	AAM	JAN80	DRAWN	JUN81	344860					
APPROV	AAM	JAN80	CHECK							YZ886

1762958

C

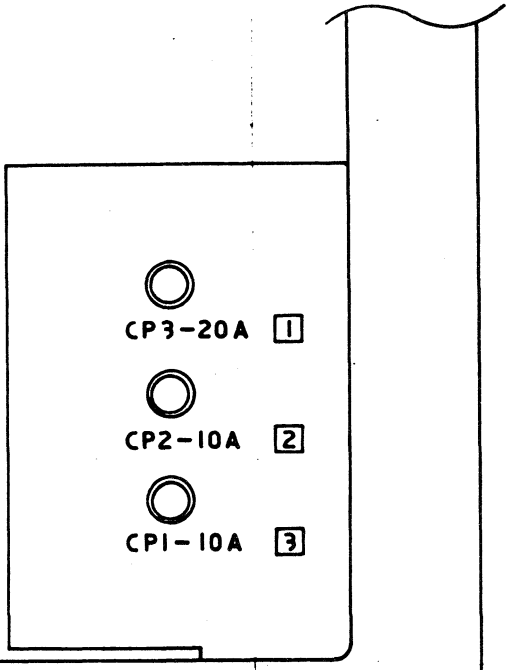
1762958 C

PART NO
1762958

LOGIC PG NO
YZ886

SHEET 3 OF 11

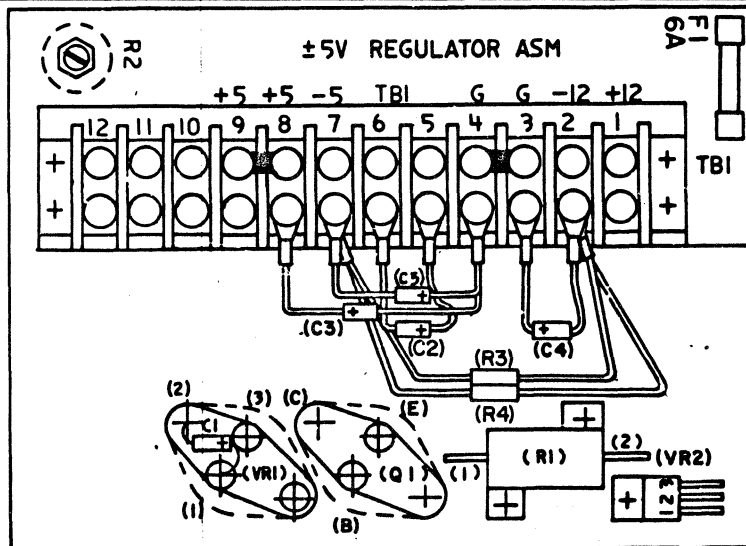
T3
TRANSFORMER



LOWER RIGHT CORNER OF 370X FRAME

NOTES

- 1 FOR + 12V PS
- 2 FOR - 12V PS
- 3 FOR + 6V PS



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM			MAR80	322328	JUN81	344860
COMPONENT LOCATION				MAY80	322331	JAN82	344836
DESIGN	AAM	JAN80	SHT 3 OF 11	OCT80	344268		
DETAIL	JVB	JAN80		MAR81	344614		
CHECK	AAM	JAN80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO YZ886	

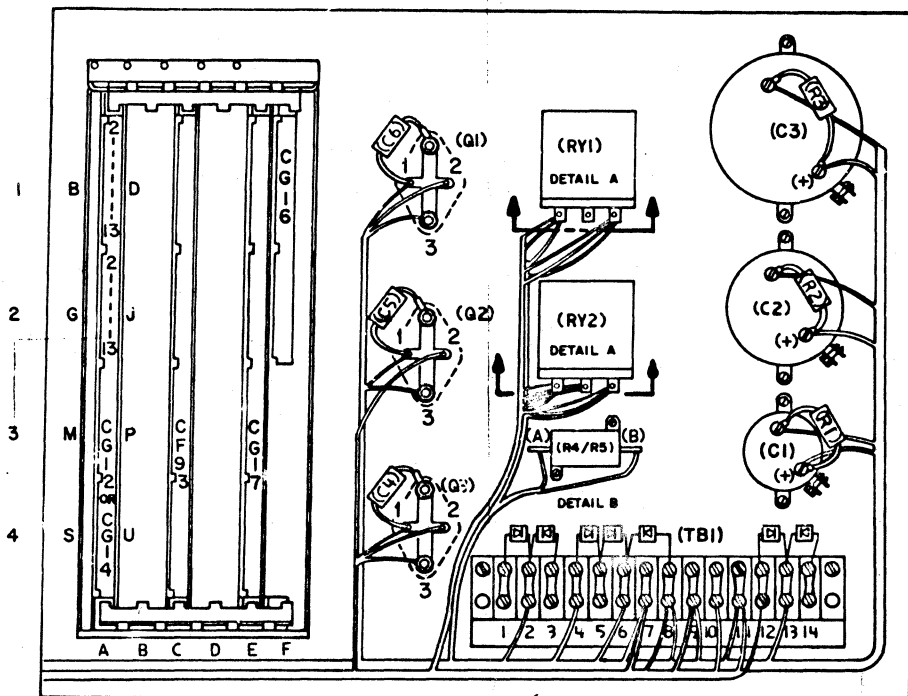
1762958 C

1762958 C

PART NO. **1762958** LOGIC PG NO. **YZ886**

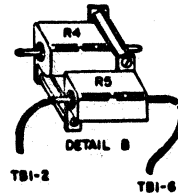
SHEET 4 OF 11

**OID GATE
CARD SIDE**

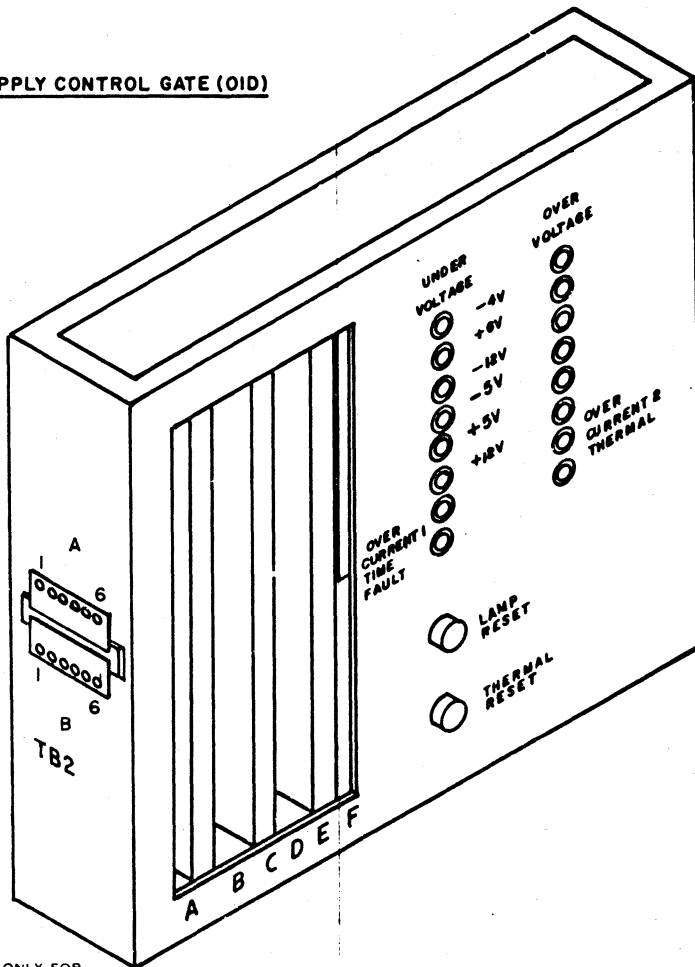


N/C	1	2	3
N/O	4	5	6
COM	7	8	9
COIL	A		B

**RY1/RY2
DETAIL A**



POWER SUPPLY CONTROL GATE (OID)



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM	DIAGRAM	COMPTENT	MAR80	322328	JUN81	344860
LOCATION				MAY80	322331	JAN82	344876
DESIGN	AAM	JAN80	SHT 4 OF 11	OCT80	344268		
DETAIL	JVB	JAN80		MAR81	344614		
CHECK	AAM	JAN80		MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN80				LOGIC PG NO	
						YZ886	

1762958 C

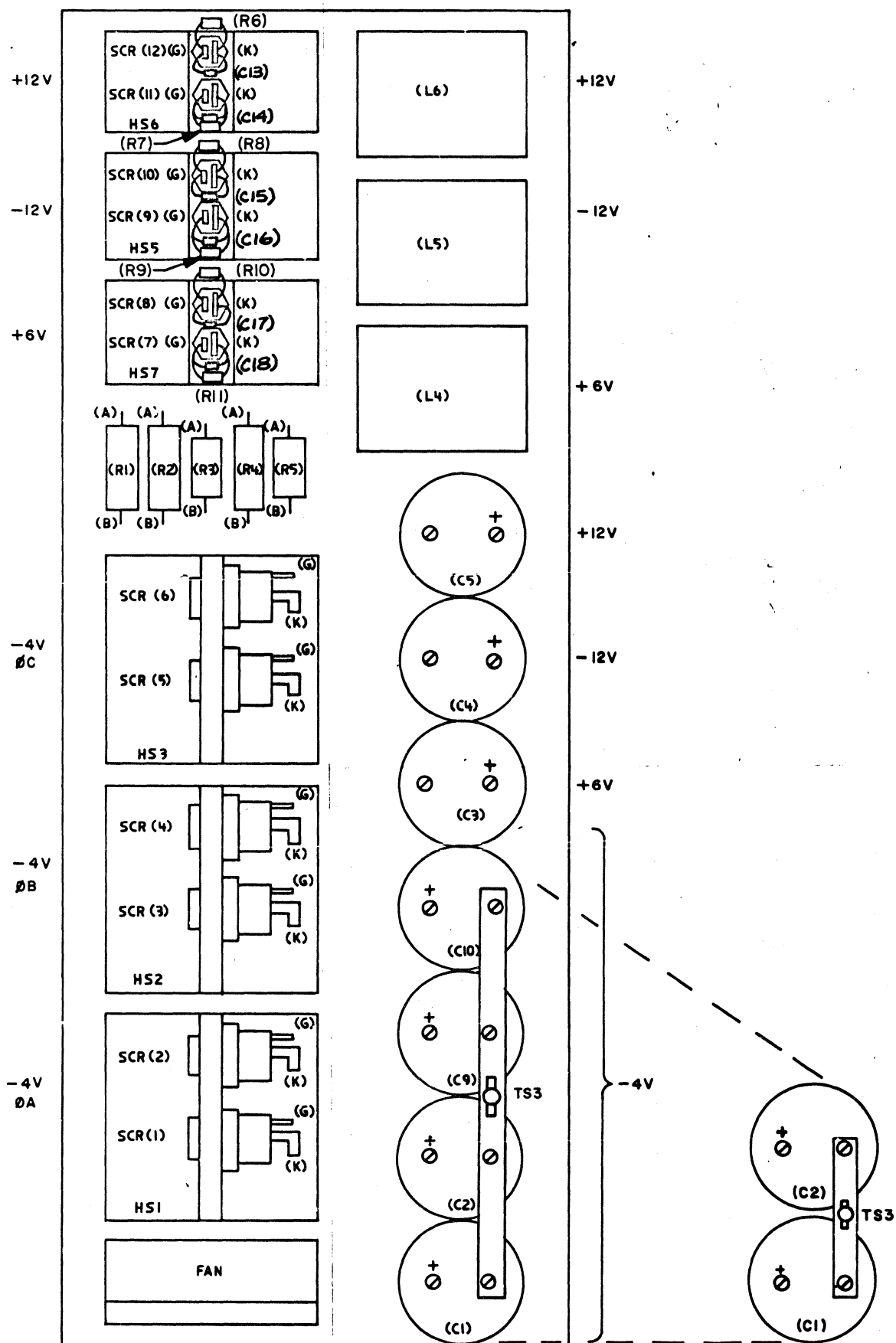
1762958 C

1762958

LOGIC PG NO
YZ886

POWER SUPPLY MTG ASSEMBLY (QIF)

SHEET 5 OF 11



ONLY TWO -4V CAPACITORS
(C9 AND C10 NOT INSTALLED)
AFTER EC 344970

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM COMPONENT			MAR 80	322328	JUN 81	344860
LOCATION				MAY 80	322331	JAN 82	344836
DESIGN	AAM	JAN 80	SHT 5 OF 11	OCT 80	344268		
DETAIL	JVB	JAN 80		MAR 81	344614		
CHECK	AAM	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	AAM	JAN 80				LOGIC PG NO YZ886	

1762958 C

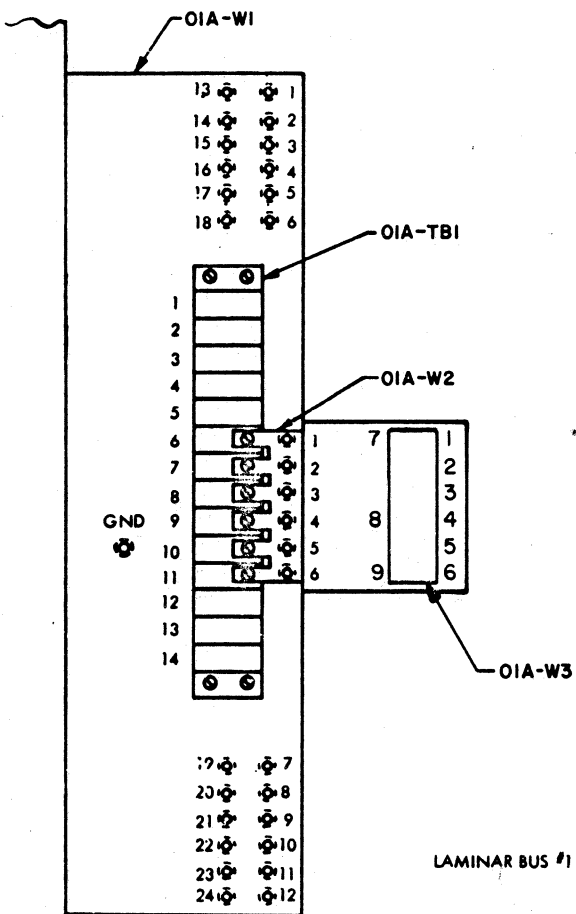
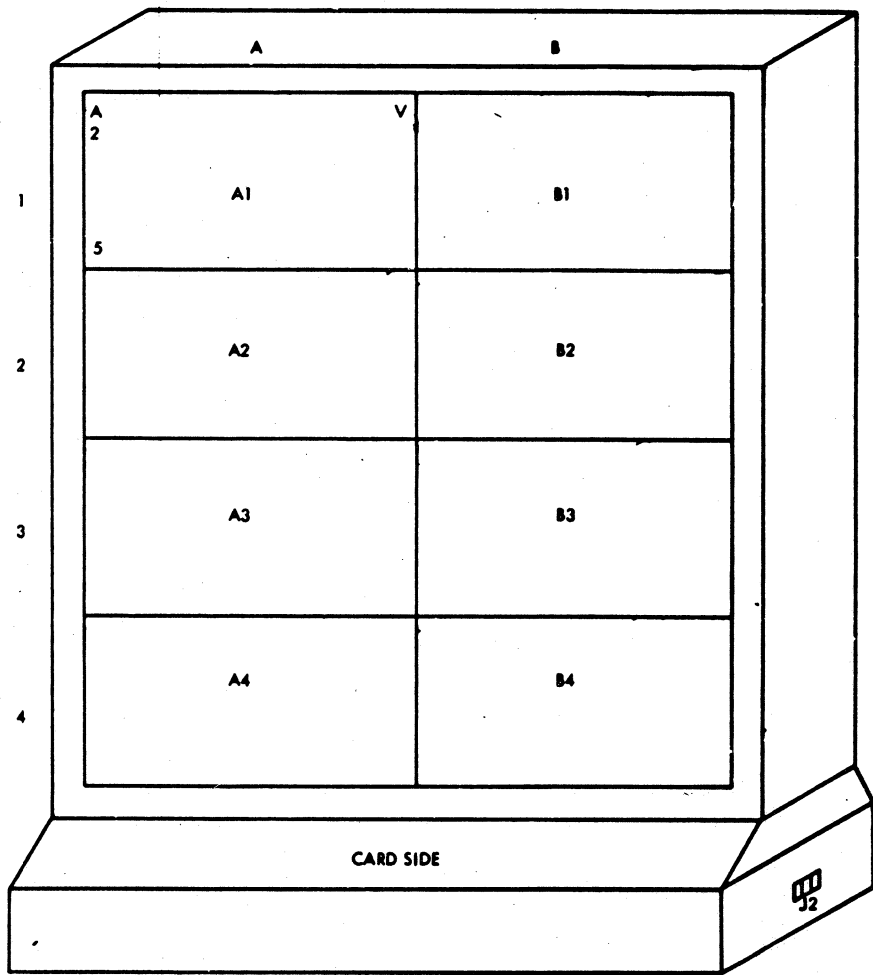
1762958

STANDARDS
CODE

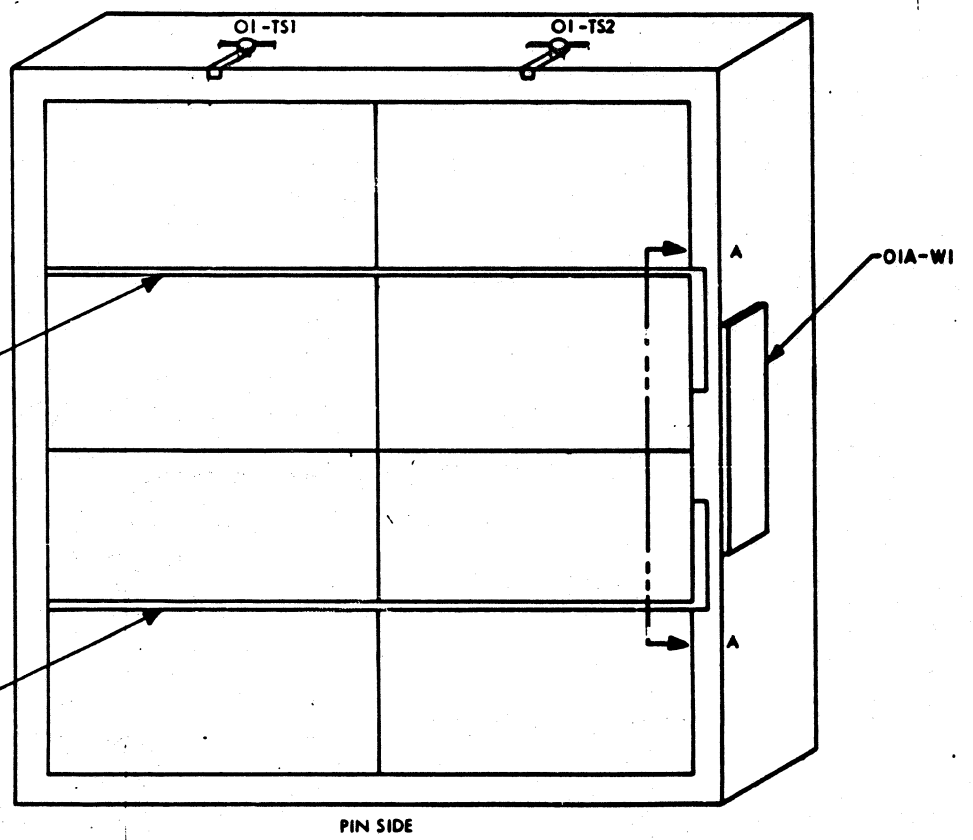
CARD CODE YZ886
1762958

SHEET 6 OF 11

LOGIC GATE - OIA



VIEW A-A



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAR80	322328		JAN82	344836		1762958
DESIGN	AAM	JAN80	INVOLE	MAY80	322331					
DETAIL	JVB	JAN80	SCALE	OCT80	344268					
CHECK	AAM	JAN80	URAM	MAR81	344614					
APPRO	AAM	JAN80	CHECK	JUN81	344860					
										YZ886

C

1762958

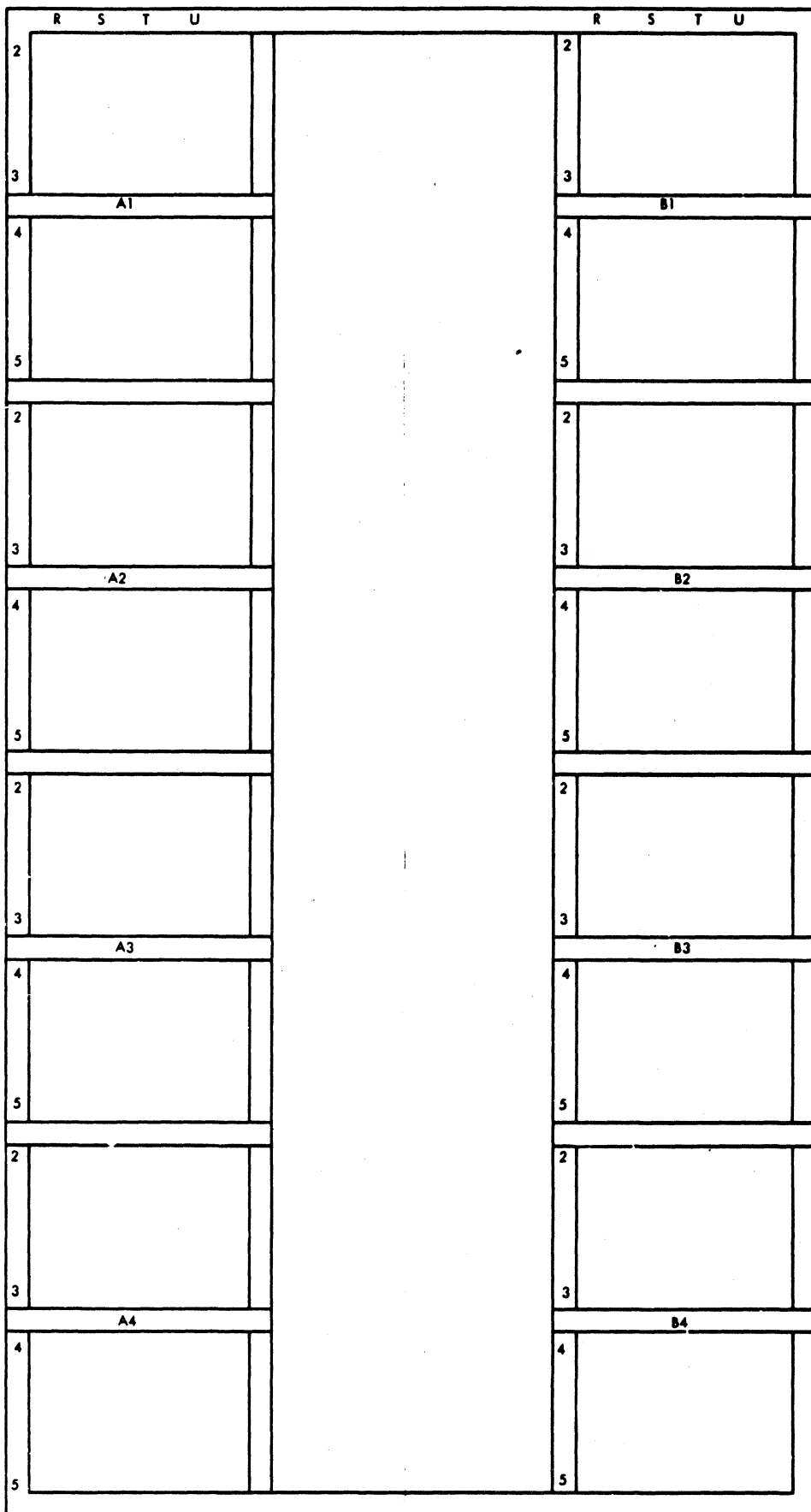
STANDARD CODE

OIS (I/O PANEL)

1762958

YZ886

SHEET 7 OF 11



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			MAR80	322328		JAN82	344836		1762958
	COMPONENT LOCATION			MAY80	322331					
DESIGN	AAM	JAN80	MODEL	OCT80	344268					
DETAIL	JVB	JAN80	SCALE	MAR81	344614					
CHECK	AAM	JAN80	DEWIT	JUN81	344860					
APPROV	AAM	JAN80	CHECK							YZ886

C

1762958

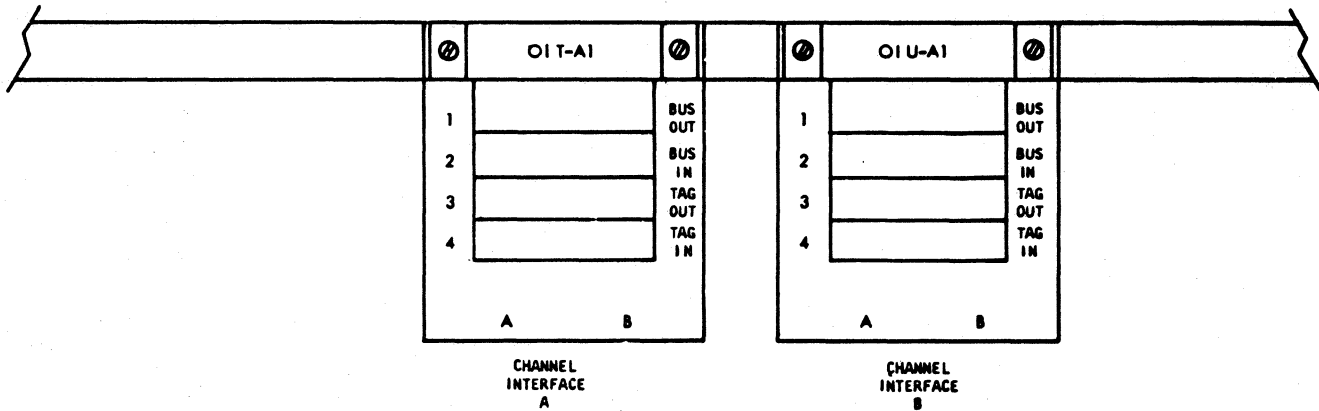
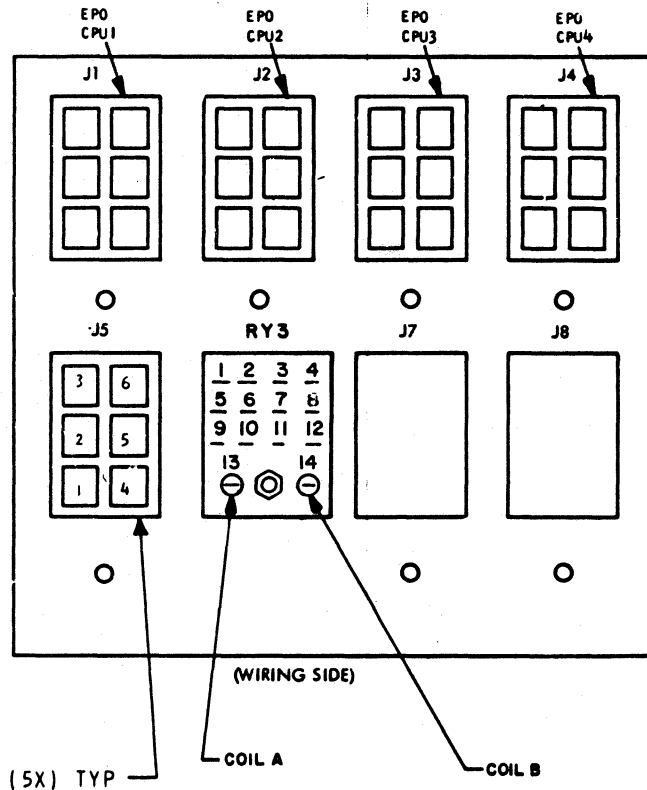
STANDARD
EGGE

CARD CODE
1762958

YZ 886

SHEET 8 OF 11

EPO AND REMOTE ENABLE/DISABLE PANEL



CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME				MAR80	322328		JAN82	344836		1762958
COMPONENT LOCATION				MAY80	322331					
DESIGN	AAM	JANBO	MODEL	OCT80	344268					
DETAIL	JVB	JANBO	SCALE	MAR81	344614					
CHECK	AAM	JANBO	DRAWN	JUN81	344860				YZ 886	
APPROV	AAM	JANBO	CHECK							

C

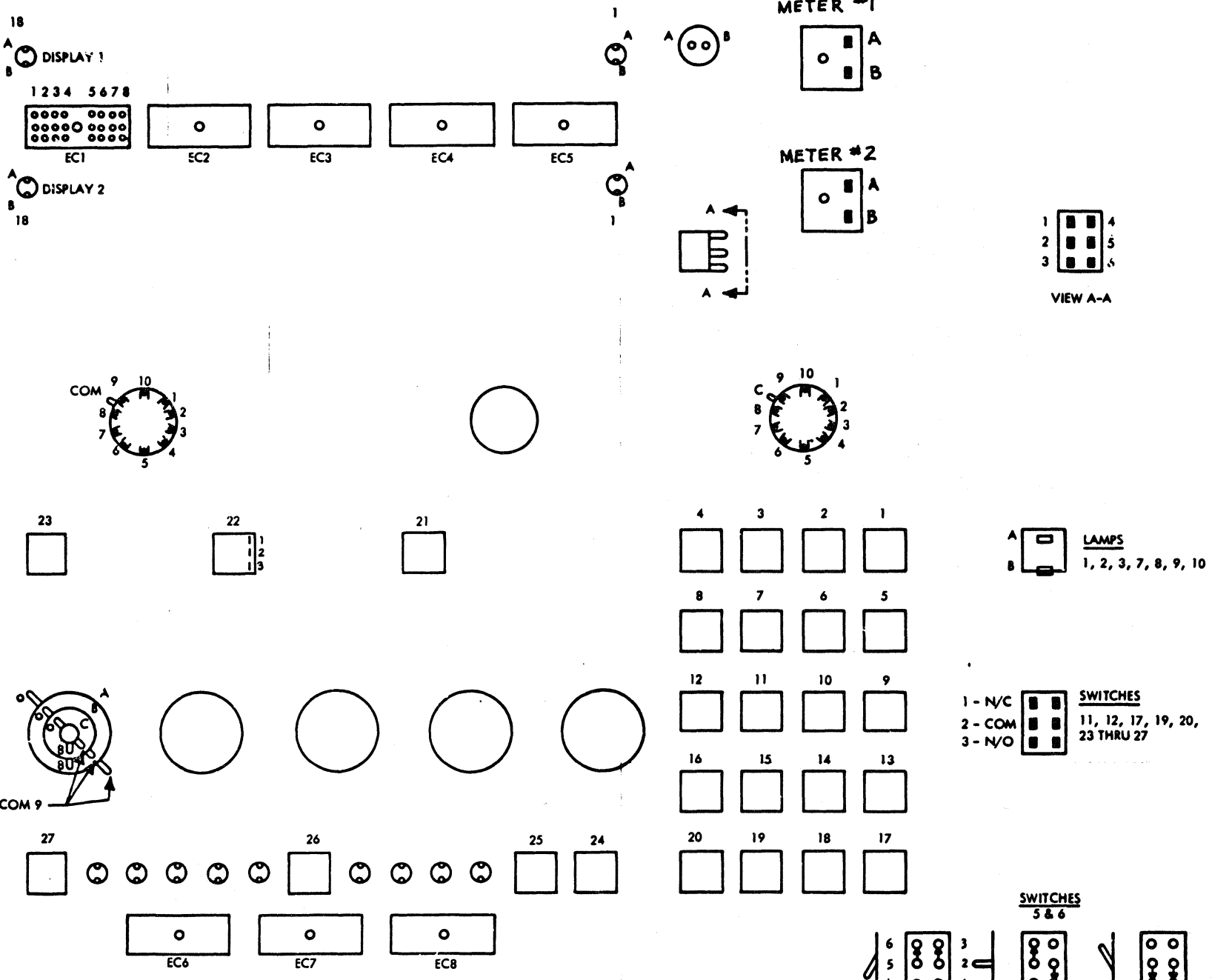
1762958

STANDARD CODE

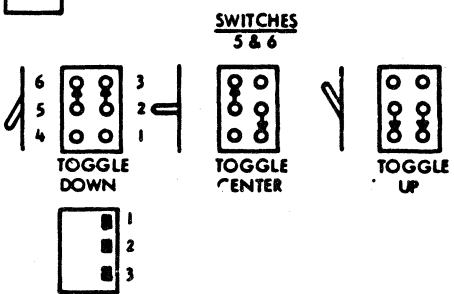
CE AND OP PANEL - WIRING SIDE

CARD CODE YZ 886
1762958

SHEET 9 OF 11



SWITCHES
1 - N/C
2 - COM
3 - N/O
11, 12, 17, 19, 20,
23 THRU 27



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	CHARGE NO.	APPROVAL	DATE	CHARGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEM DIAGRAM			MAR80	322328		JAN82	344836		1762958
COMPONENT LOCATION				MAY80	322331					
DESIGN	AAM	JANBO	MODEL	OCT80	344268					
DETAIL	JVB	JANBO	SCALE	MAR81	344614					
CHECK	AAM	JANBO	DRAW	JUN81	344860				YZ 886	
APPRO	AAM	JANBO	CHECK							

1762958

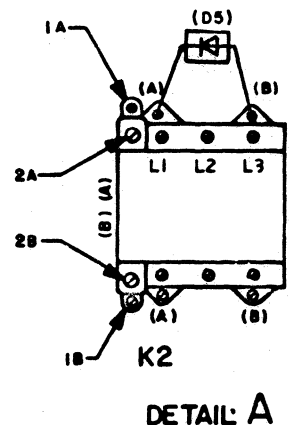
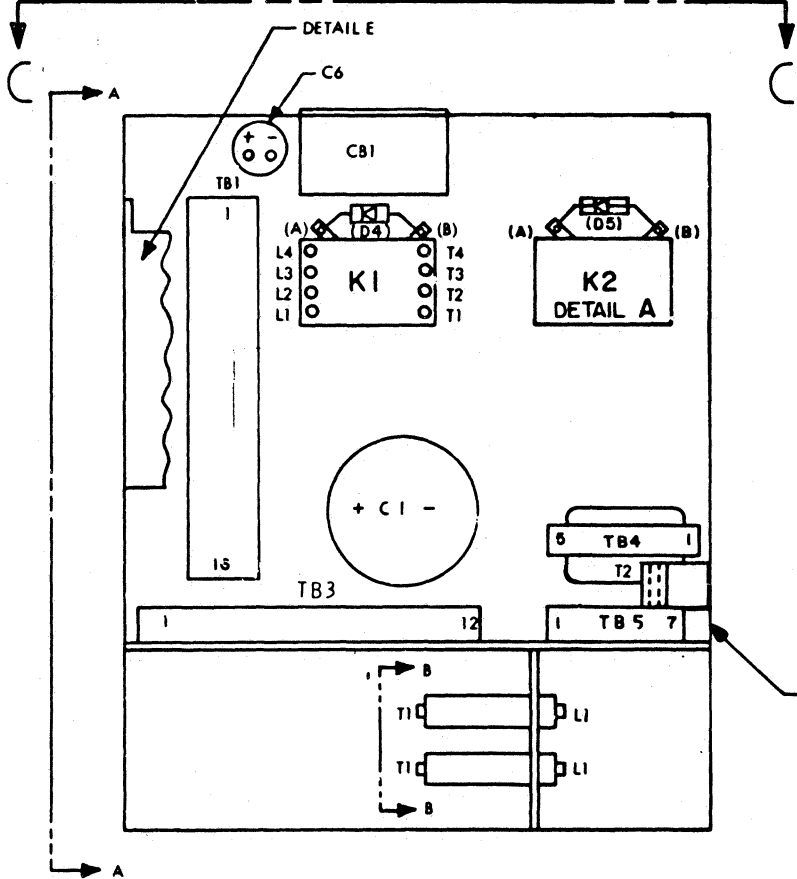
STANDARD CODE

CARD CODE
1762958

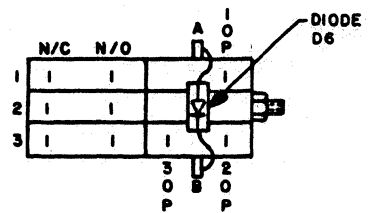
Y2886

SHEET 10 OF 11

PRIME POWER BOX (PPB)
220/235V, 380/408V (50 HZ, WTC)

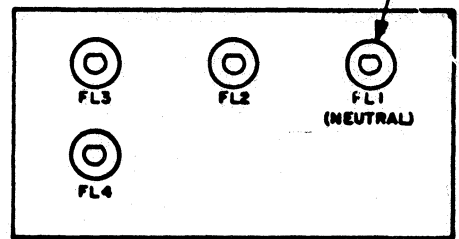


DETAIL A

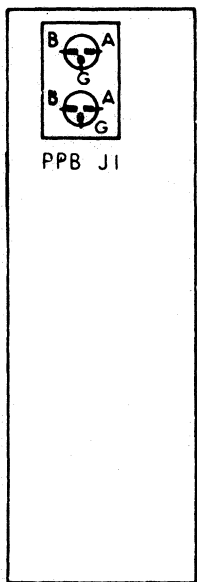


DETAIL F

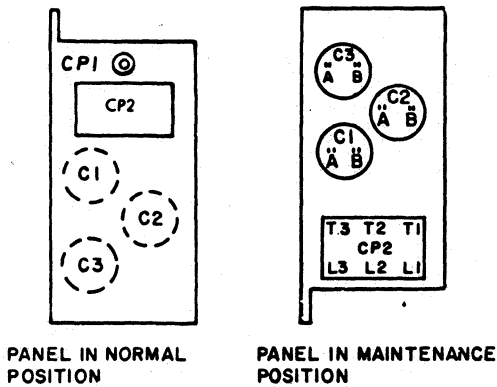
NOTE [1]



VIEW B-B



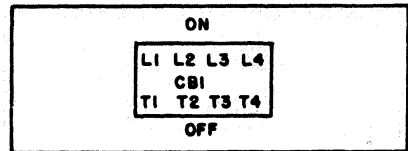
VIEW A-A



PANEL IN NORMAL POSITION

PANEL IN MAINTENANCE POSITION

DETAIL E



VIEW C-C

NOTES

[1] USED ONLY FOR 50 Hz 380V AND 408V.

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME SYSTEM DIAGRAM	MAR80	322328		JAN82	344836		
COMPONENT LOCATION	MAY80	322331					
DESIGN AAM JAN80 MODEL	OCT80	344268					
DETAIL JVB JANGO SCALE	MAR81	344614					
CHECK AAM JANGO DRAW	JUN81	344860					Y2886
APPROV AAM JAN80 CHECK							

1762958

C

GRAPHIC CONTROLS CORPORATION

1762958 C

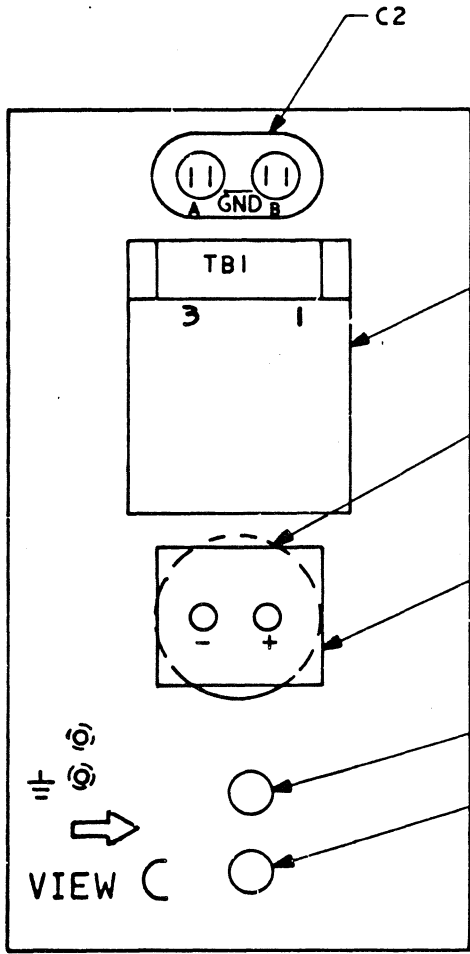
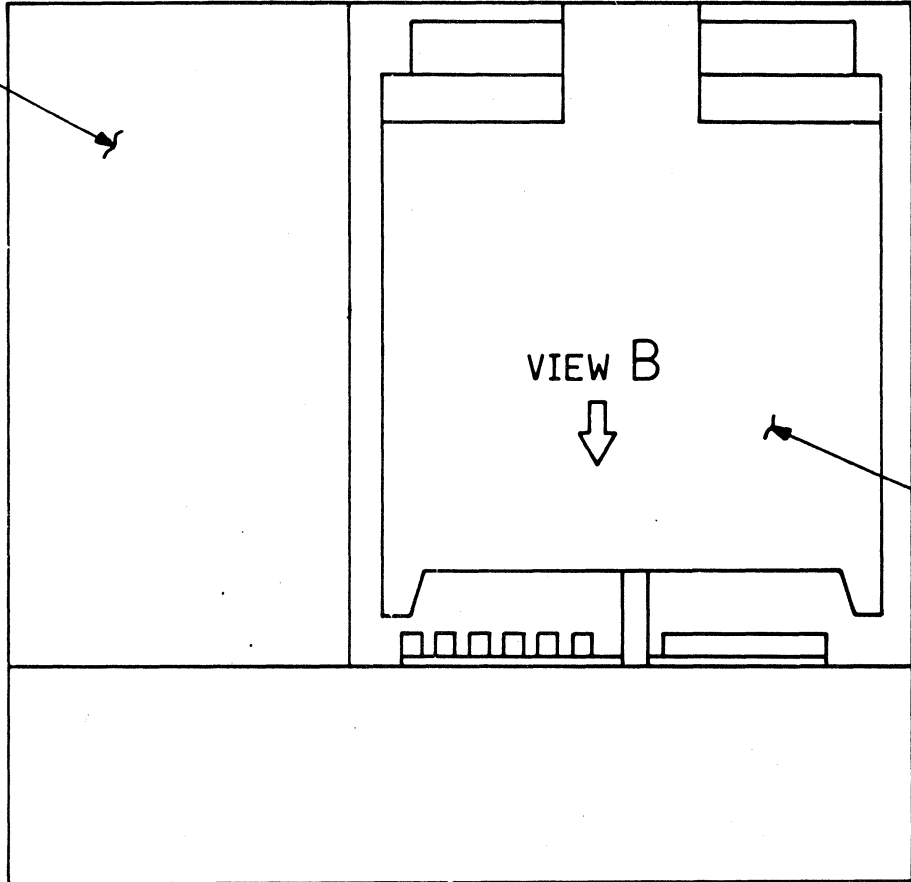
DISK FILE - 50/60HZ

PART NO
1762958

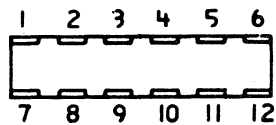
LOGIC PG NO
YZ886

SHEET 11 OF 11

PSI-POWER SUPPLY
SEE DETAIL A

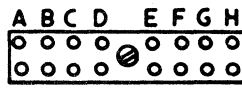


DETAIL A
PSI POWER SUPPLY



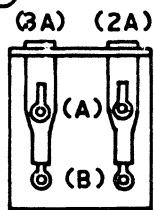
DISK GND BUS

VIEW B

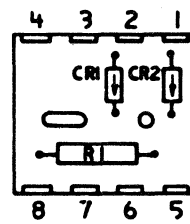


EC 1

PCI
SEE DETAIL D



VIEW C



DETAIL D

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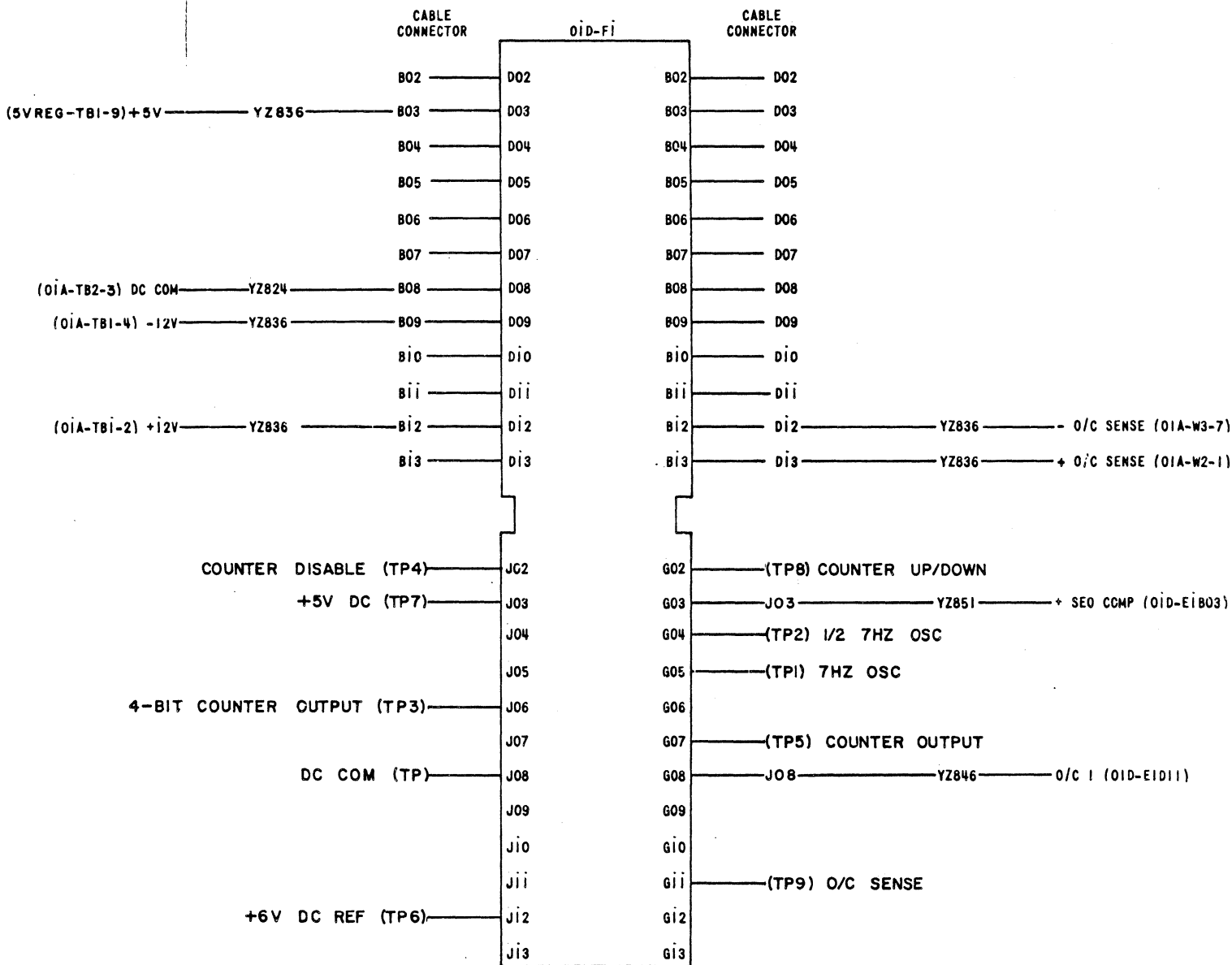
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	SYSTEM DIAGRAM			MAR 80	322328	JUN 81	344860
COMPONENT LOCATION				MAY 80	322331	JAN 82	344836
DESIGN	AAM	JAN 80	SHT 11 OF 11	OCT 80	344268		
DETAIL	JVB	JAN 80		MAR 81	344614		
CHECK	AAM	JAN 80	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	AAM	JAN 80					YZ8 86

1762958 C

1762959 C

PART NO 1762959 LOGIC PG NO YZ83i

CURRENT MONITOR CARD



CARD TYPE CG16

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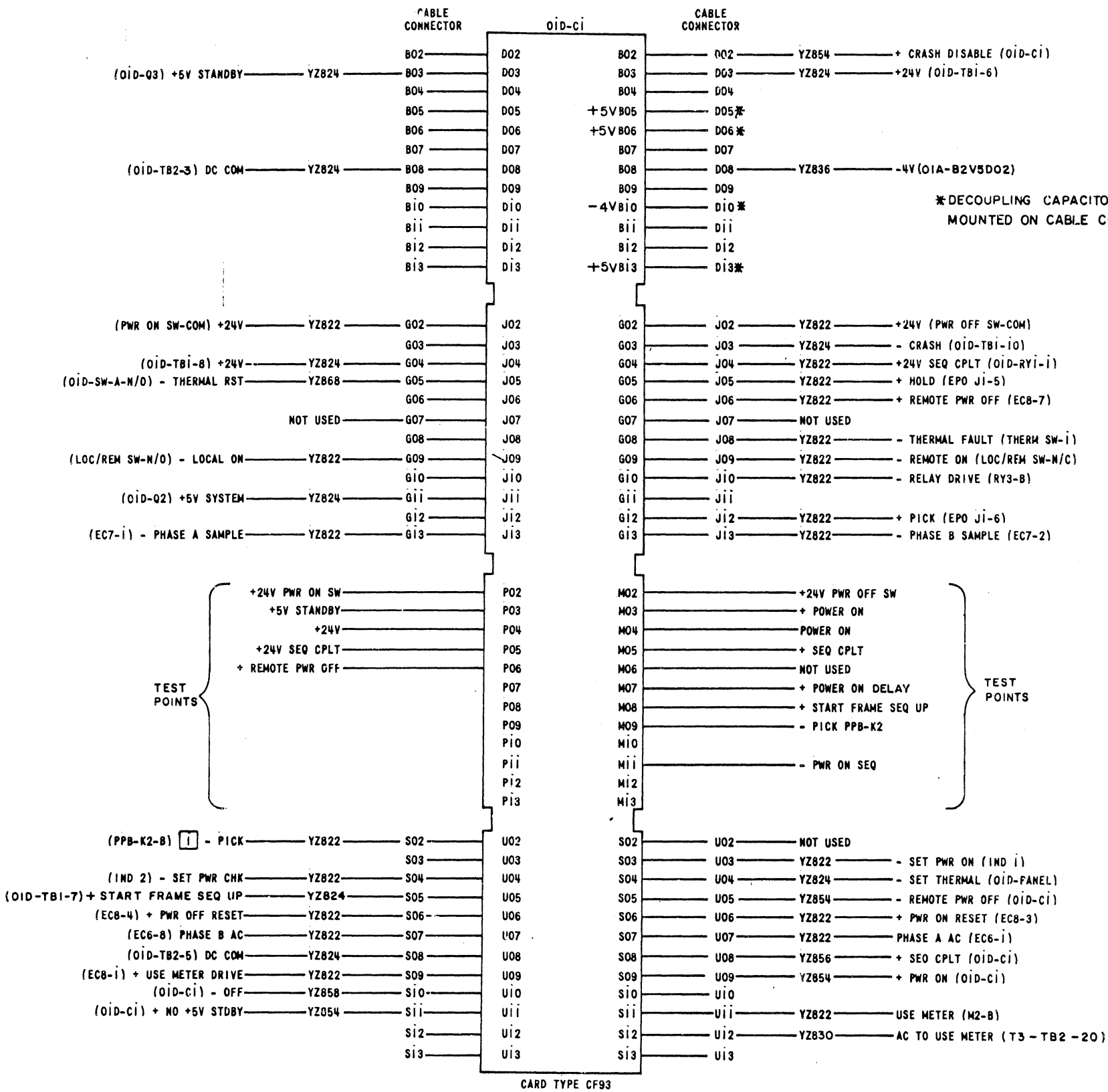
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	CURRENT MONITOR CARD			JAN81	344268		
	AND CABLE CONNECTIONS			MAR81	344614		
DESIGN	JJS	JAN81	SHT 1 OF 1	JUN81	344860		
DETAIL	TS	JAN81		FEB82	344836		
CHECK	CDN	JAN81	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	MTL	JAN81	JJS JAN81			LOGIC PG NO	
						YZ83i	

1762959 C

1762960 C

PART NO **1762960** LOGIC PG NO
YZ829

MASTER SEQUENCE CARD



TEST POINTS

TEST POINTS

1 GOES TO PPB-TB1-15 FOR WORLD TRADE.

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME				JAN81	344268		
AND CABLE CONNECTIONS				MAR81	344614		
DESIGN	JJS	JAN81	SHT 1 OF 1	JUL81	344860		
DETAIL	TS	JAN81		FEB82	344836		
CHECK	CPM	JAN81	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	MTL	JAN81	JJS	JAN81		LOGIC PG NO	
						YZ829	

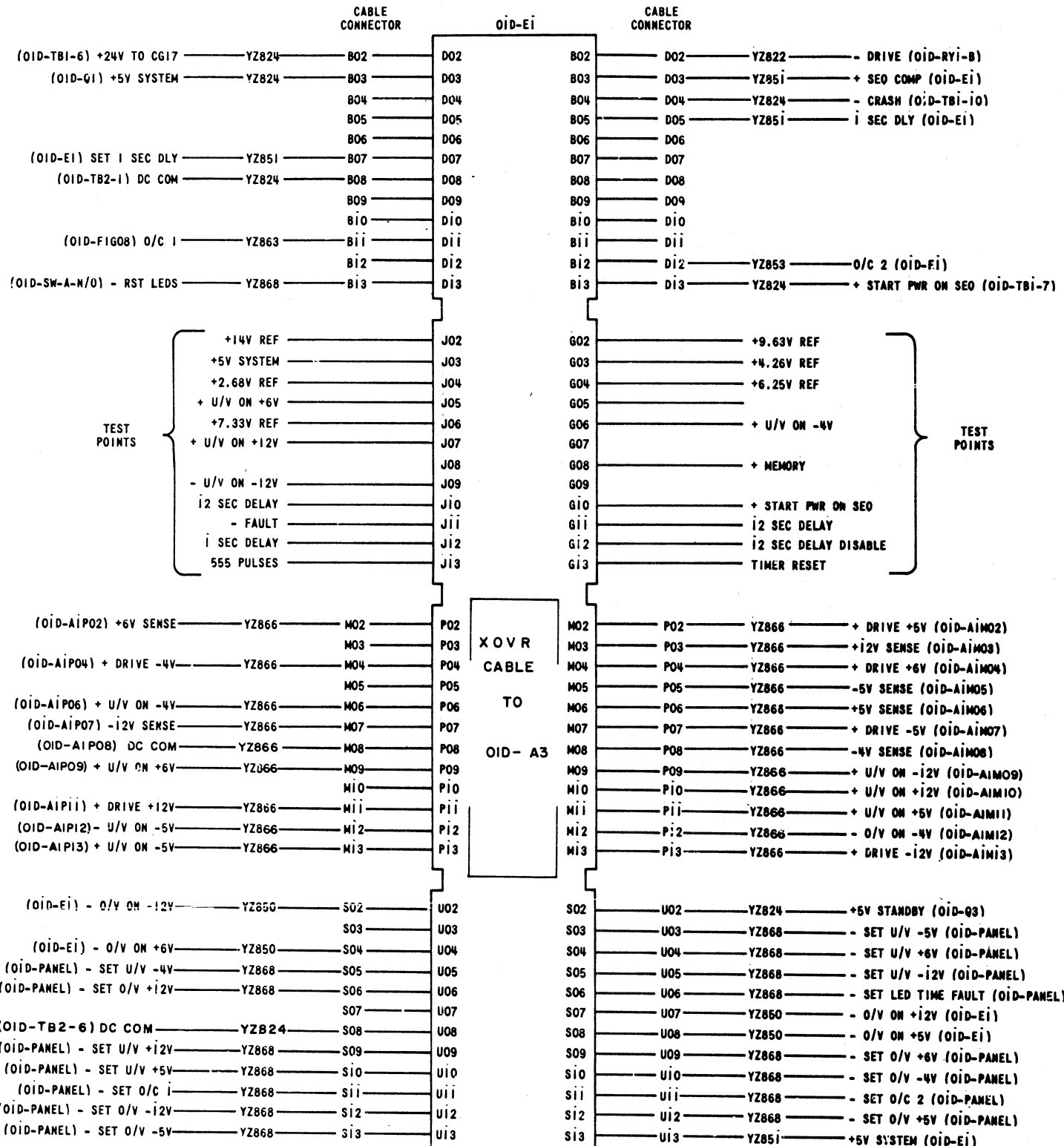
1762960 C

1762961 C

PART NO
1762961

LOGIC PG NO
YZ827

FRAME SEQUENCE CARD

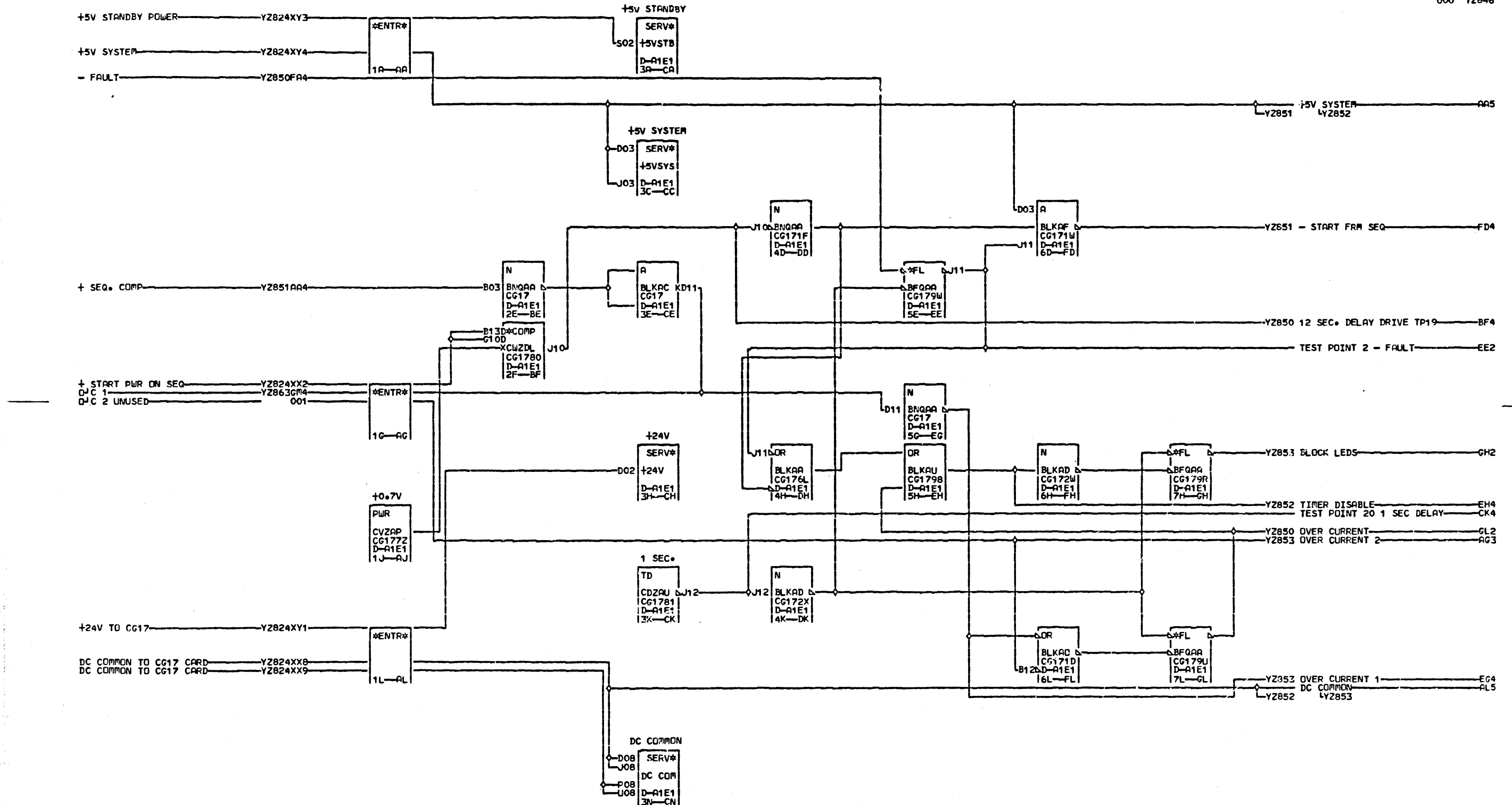


CARD TYPE CG17

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	FRAME SEQUENCE CARD			JAN81	344268		
AND CABLE CONNECTIONS				JUN81	344860		
DESIGN	JJS	JAN81	CHT 1 OF 1	FEB82	344836		
DETAIL	TS	JAN81					
CHECK	CDN	JAN81	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	MTL	JAN81	JJS JAN81			LOGIC PG NO	
						YZ827	

1762961 C

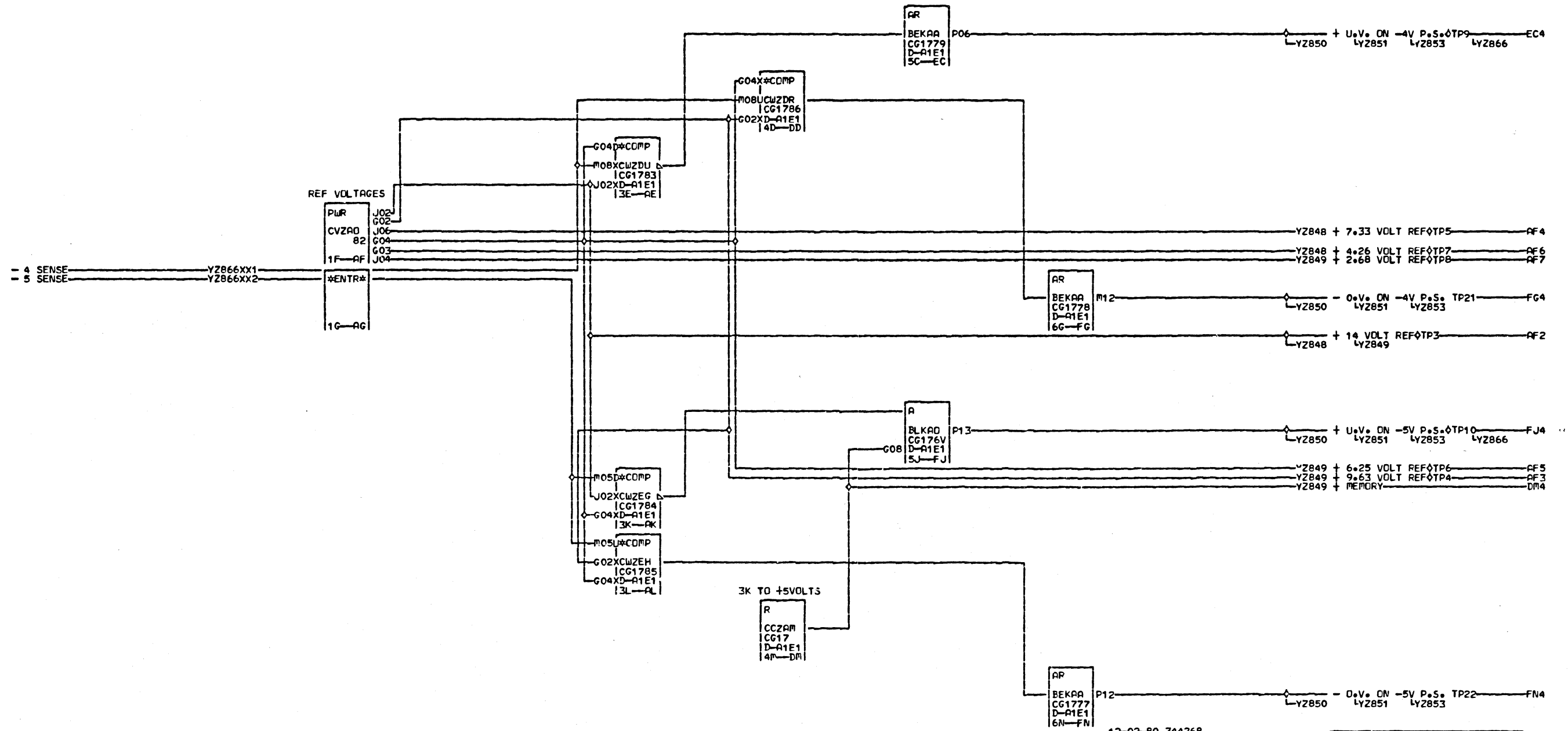


Y
Z
8
4
6
000

12-02-80 344268
03-31-80 344614
06-12-81 344860
02-15-82 344836

POWER ON AND OVER CURRENTS			
DATE	02-16-82	FACH.	3705
LOG	448	FRAME	01
P.N.		1857280	
IBM CORP.	SCD BLK.	GP	000

Y
Z
8
4
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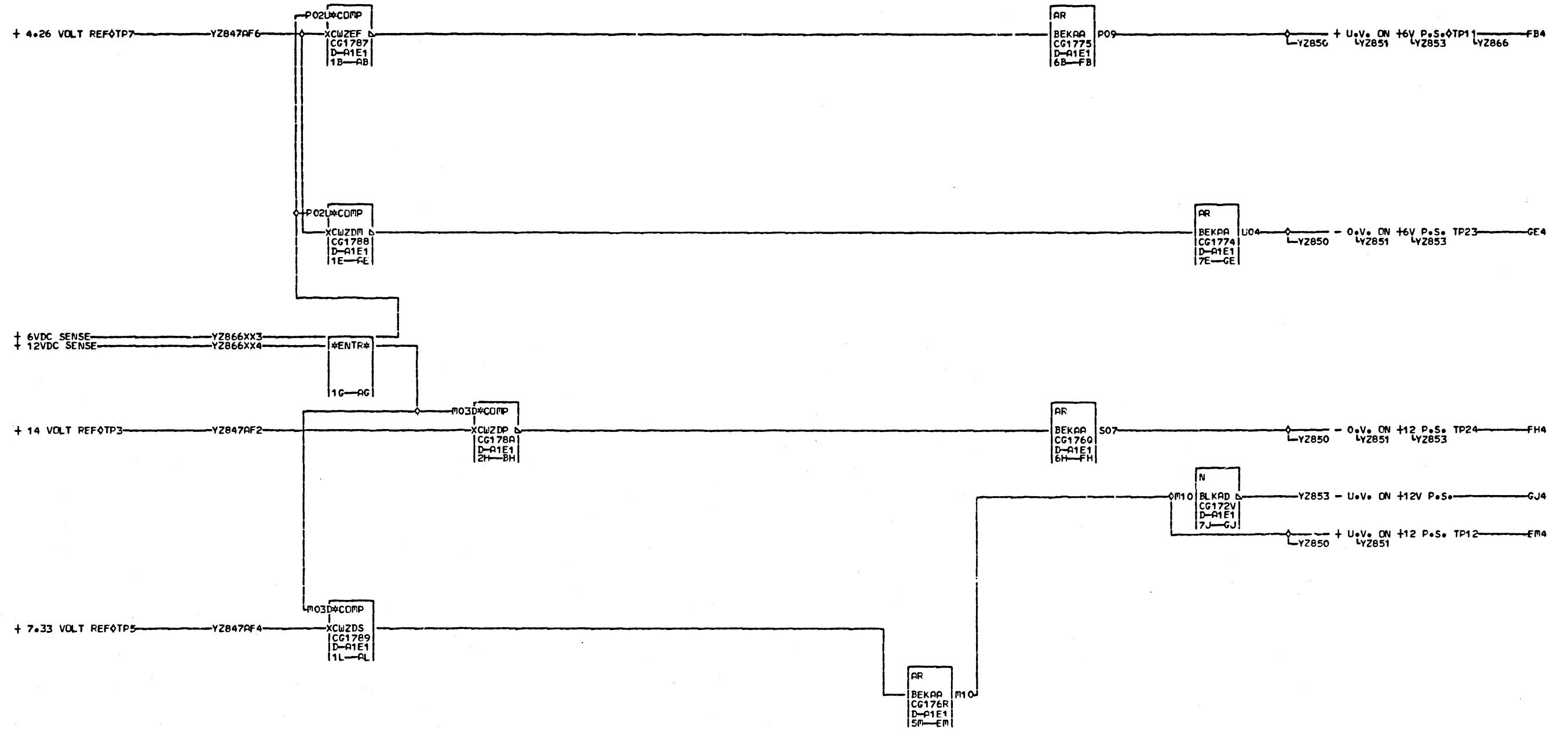


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12-02-80 344268
06-12-81 344860

+3.4C-4 OV AND LV			
DATE	C7-06-81	MACH.	3705
LOG	282	FRAME	01
		P.N.	1857281
IBM CCFP.	SCD BLK.	GP	000

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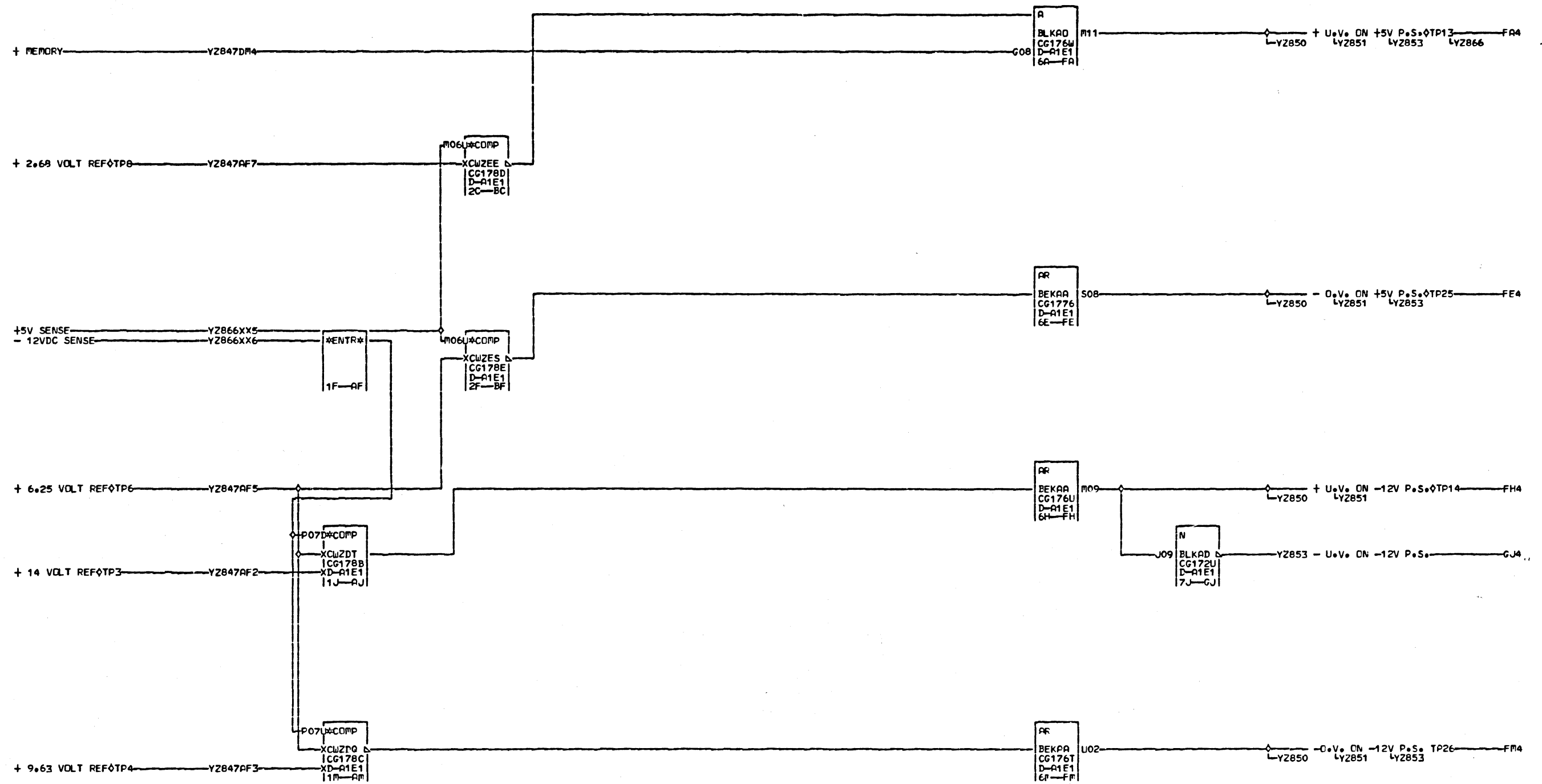


Y
Z
8
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8
000

12-02-80 344268
06-12-81 344860

+60+12 CV AND UV		
DATE	07-06-81	MACH. 3705
LOG	282	FRAME 01
P.N. 1857282		
IEP CCRF.	SCD BLK.	GN

Y
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8
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8
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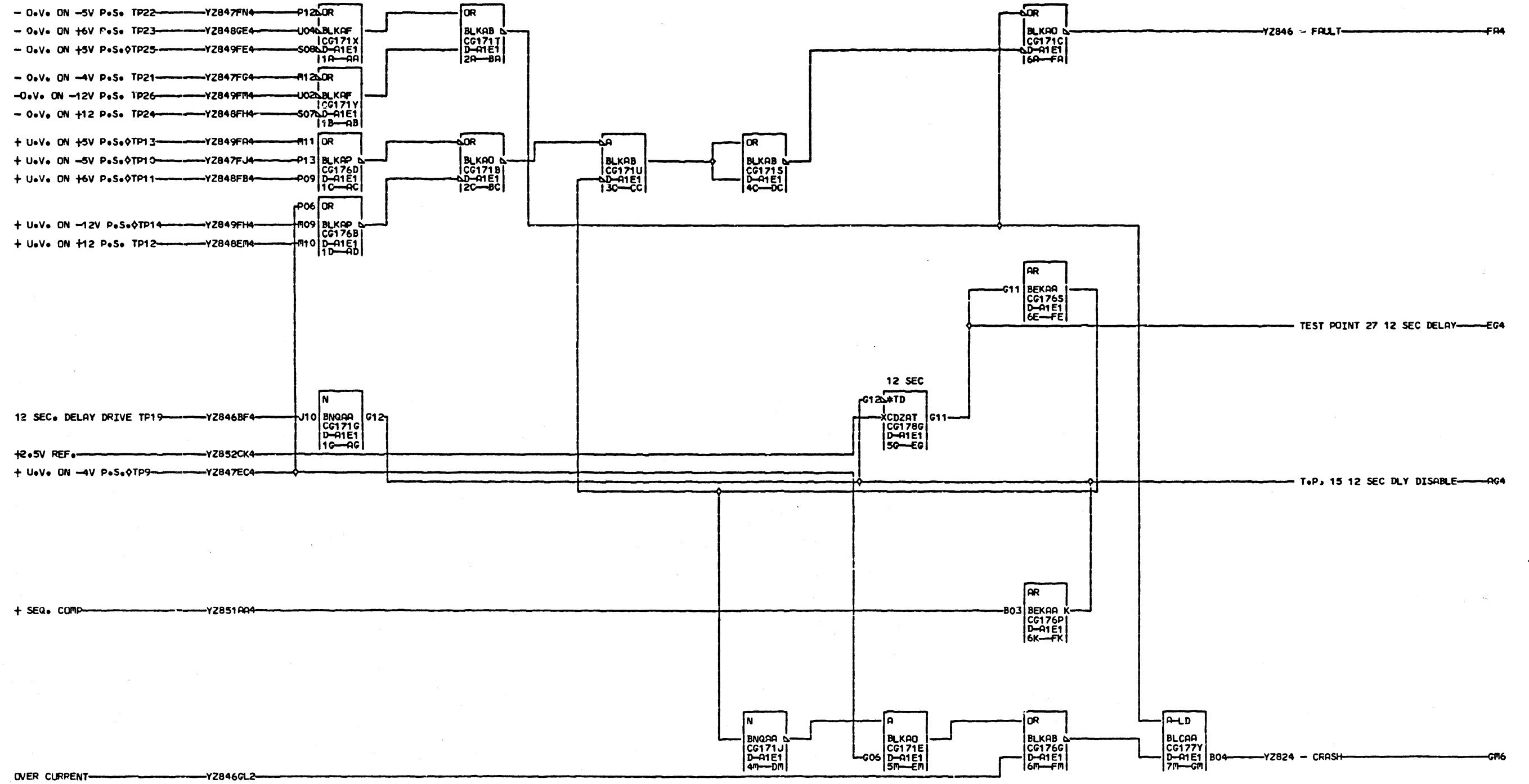


Y
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8
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9
000

12-02-80 344268
06-12-81 344860

-12(+8.5 CV AND U _o V)		
DATE	07-06-81	MACH. 3705
LDG	282	FRAME 01
P.N. 1857283		
IBM CCFP.	SCD BLK.	GF

Y
Z
8
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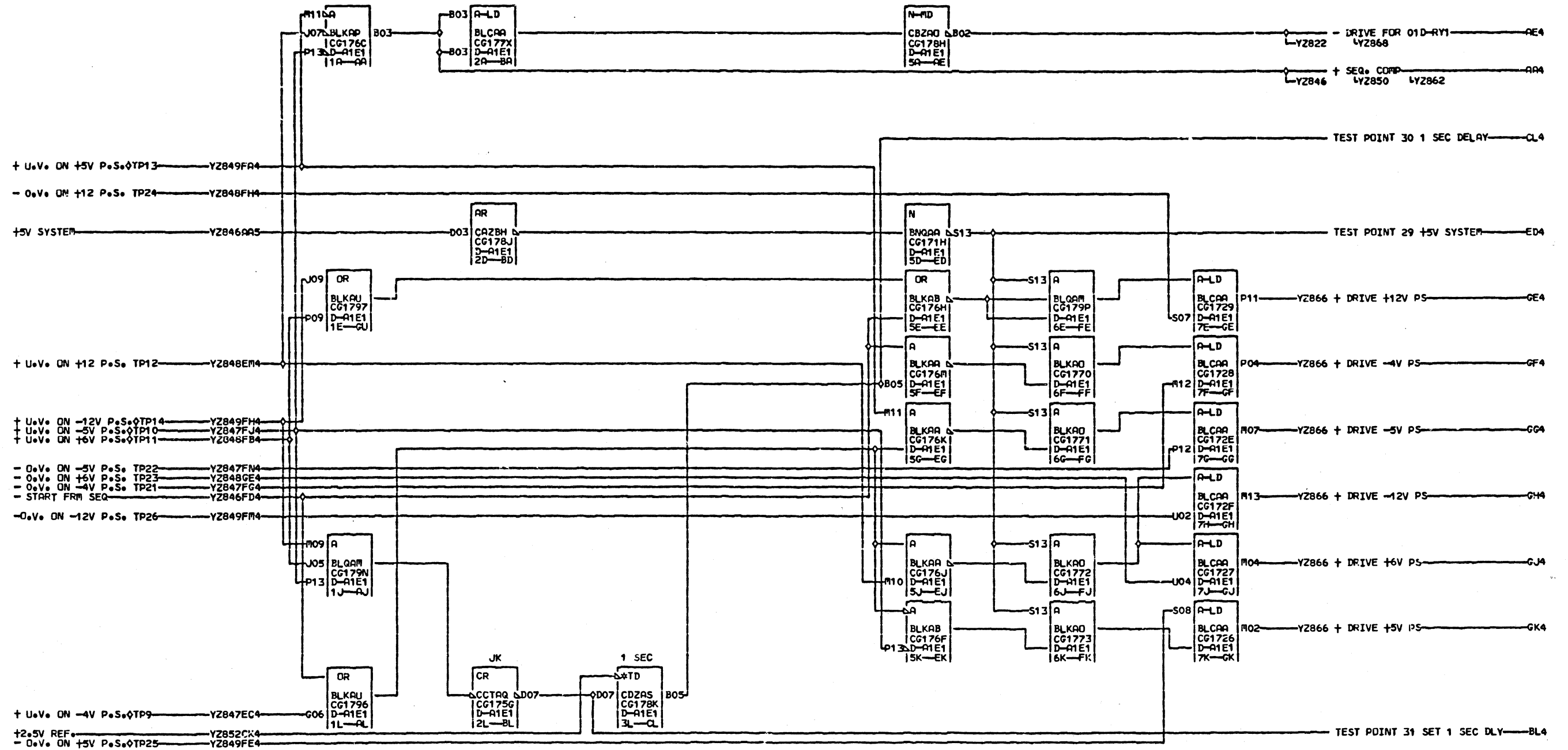


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12-02-80 344268
03-31-80 344614

12 SECOND FAULT DISABLE			
DATE	03-27-81	MACH.	3705
LOG	187	FRAME	01
		P.N.	1857284
IBI' COMP.	SCD BLK.		CN

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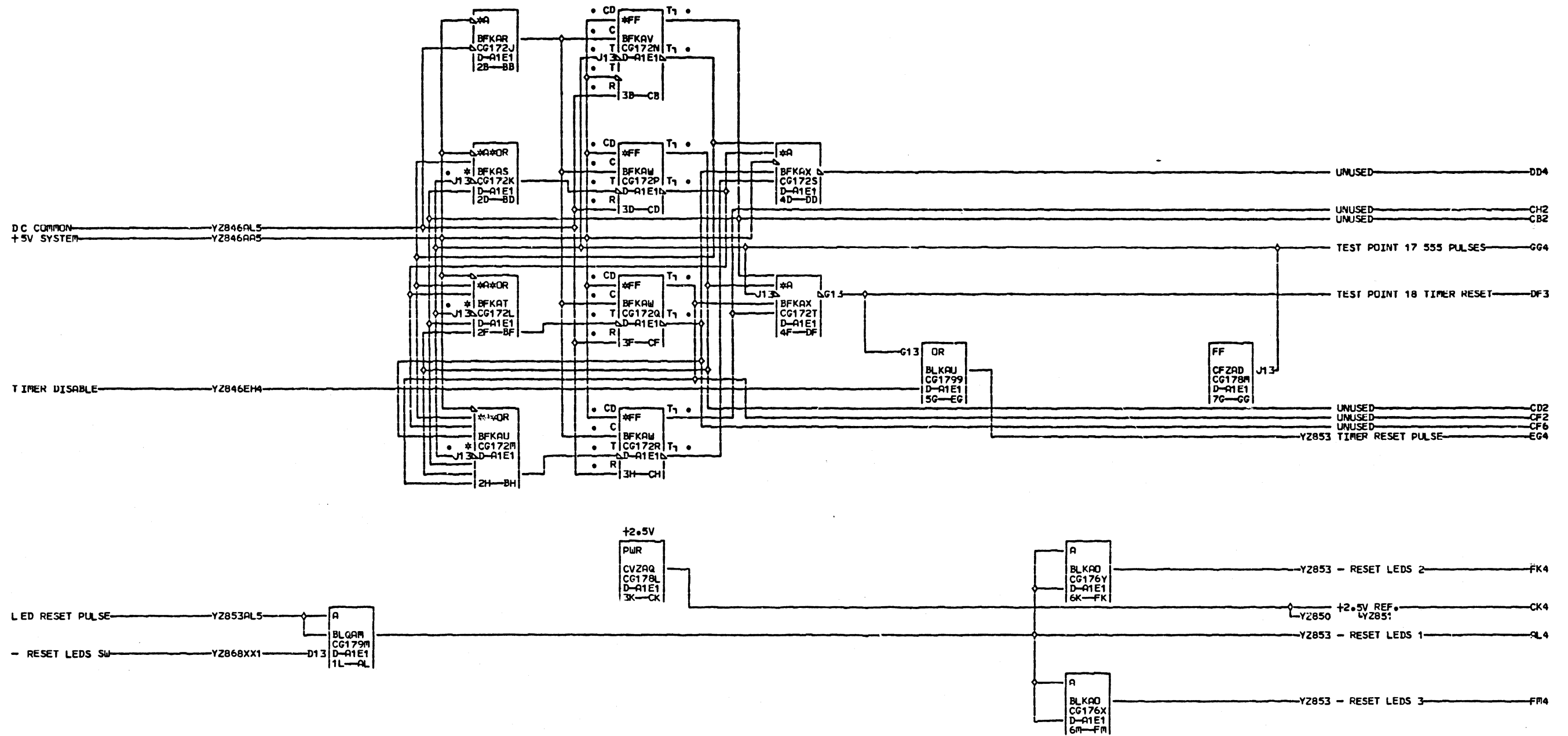


12-02-80 344268
 03-31-80 344614
 02-15-82 344836

VOLTAGE DRIVE SIGNALS			
DATE	01-18-82	MACH.	3705
LOG	407	FRAME	01
		P.N.	1857285
IBM CORP.	SCD	BLK.	GV

Y
Z
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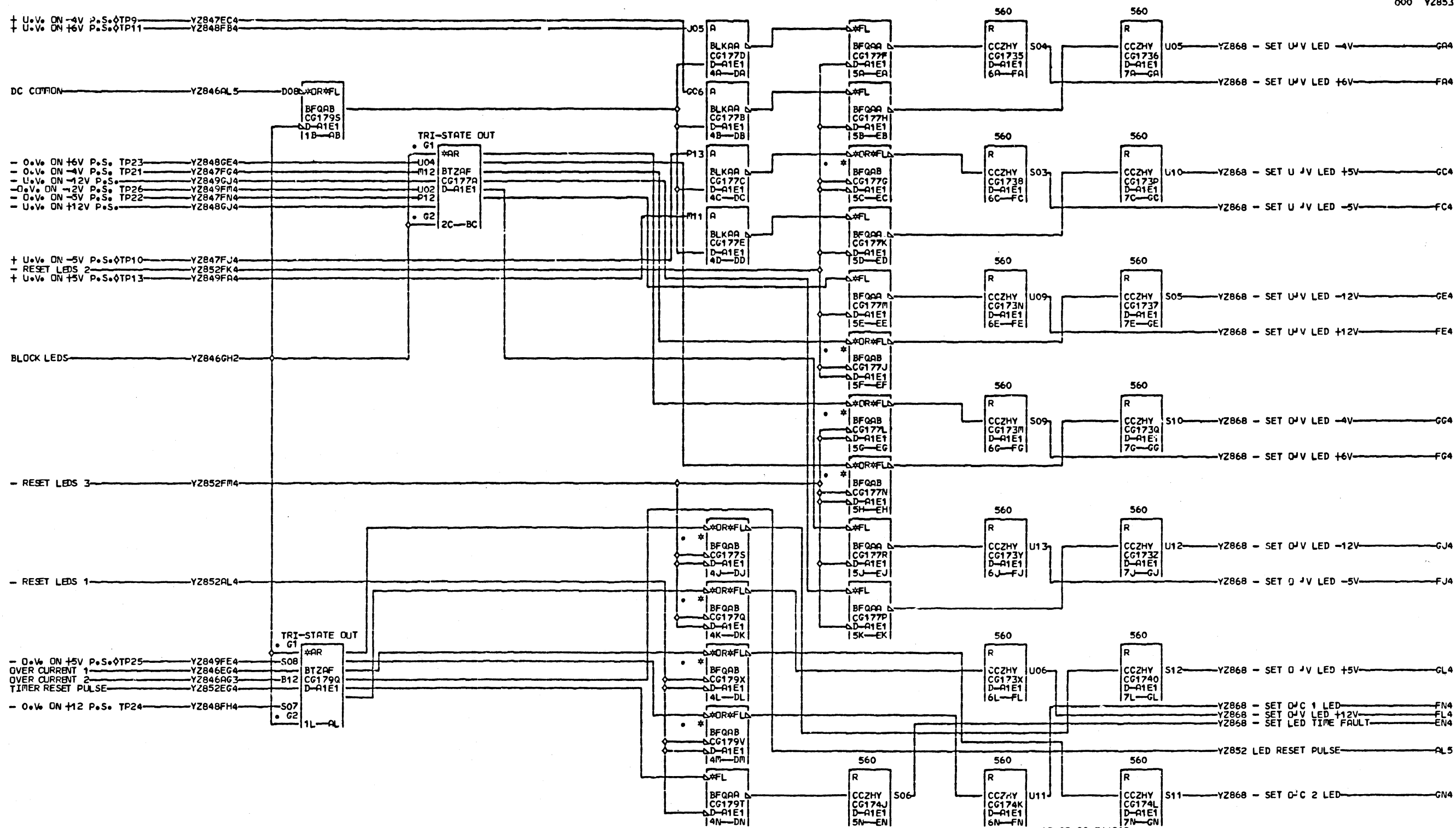


Y
2
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12-02-80 344268
03-31-80 344614

LED RESET SWITCH AND TIMER			
DATE	03-27-81	MACH.	3705
LOG	187	FRAME	01
		P.No.	1857286
IBM CCKP.	SCD	BLK.	GN

Y
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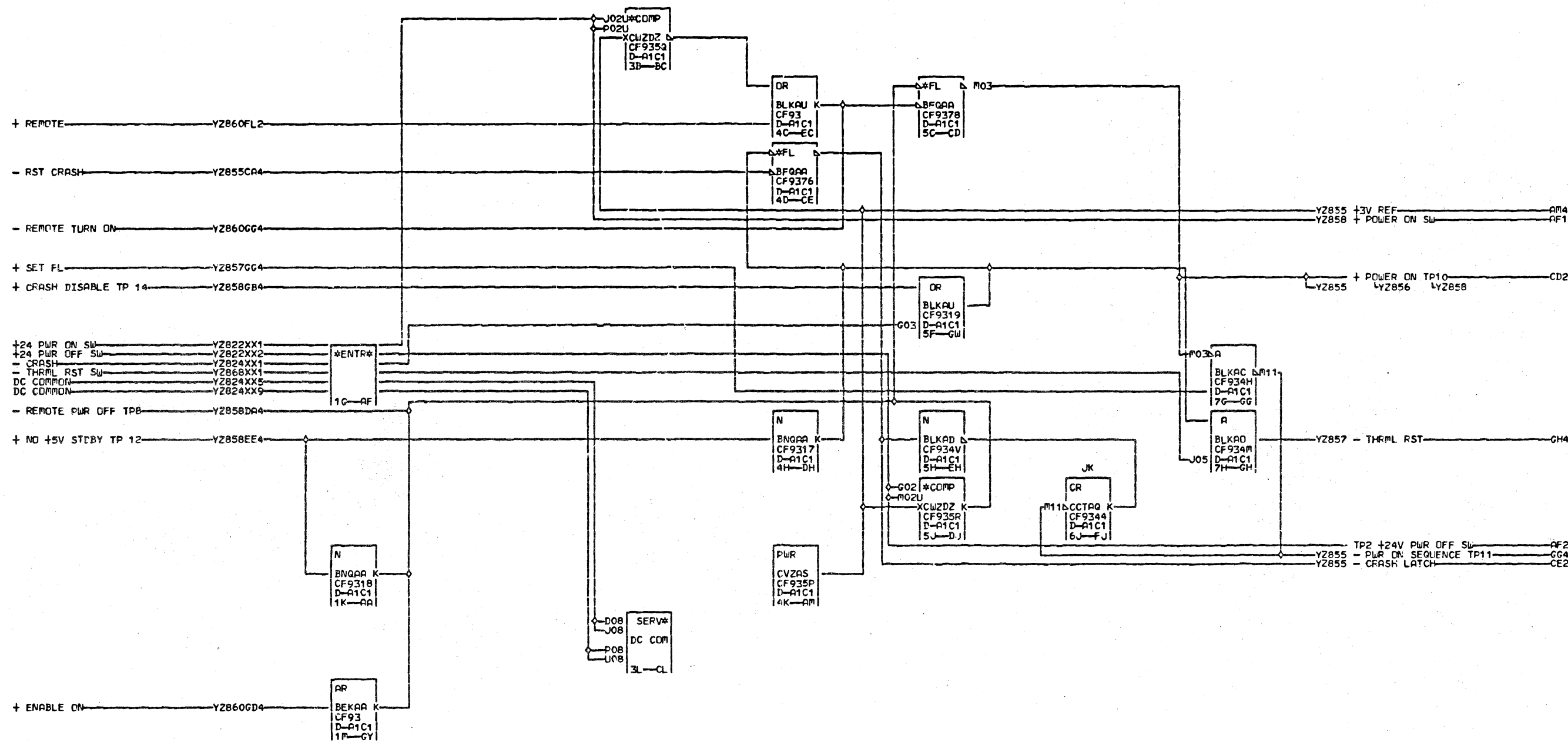


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12-02-80 344268

LED INDICATOR DRIVES			
DATE	01-16-81	MACH.	3705
LOG	989	FRAME	01
		P.N.	1857287
IBM CORP.	SCD	BLK.	GP

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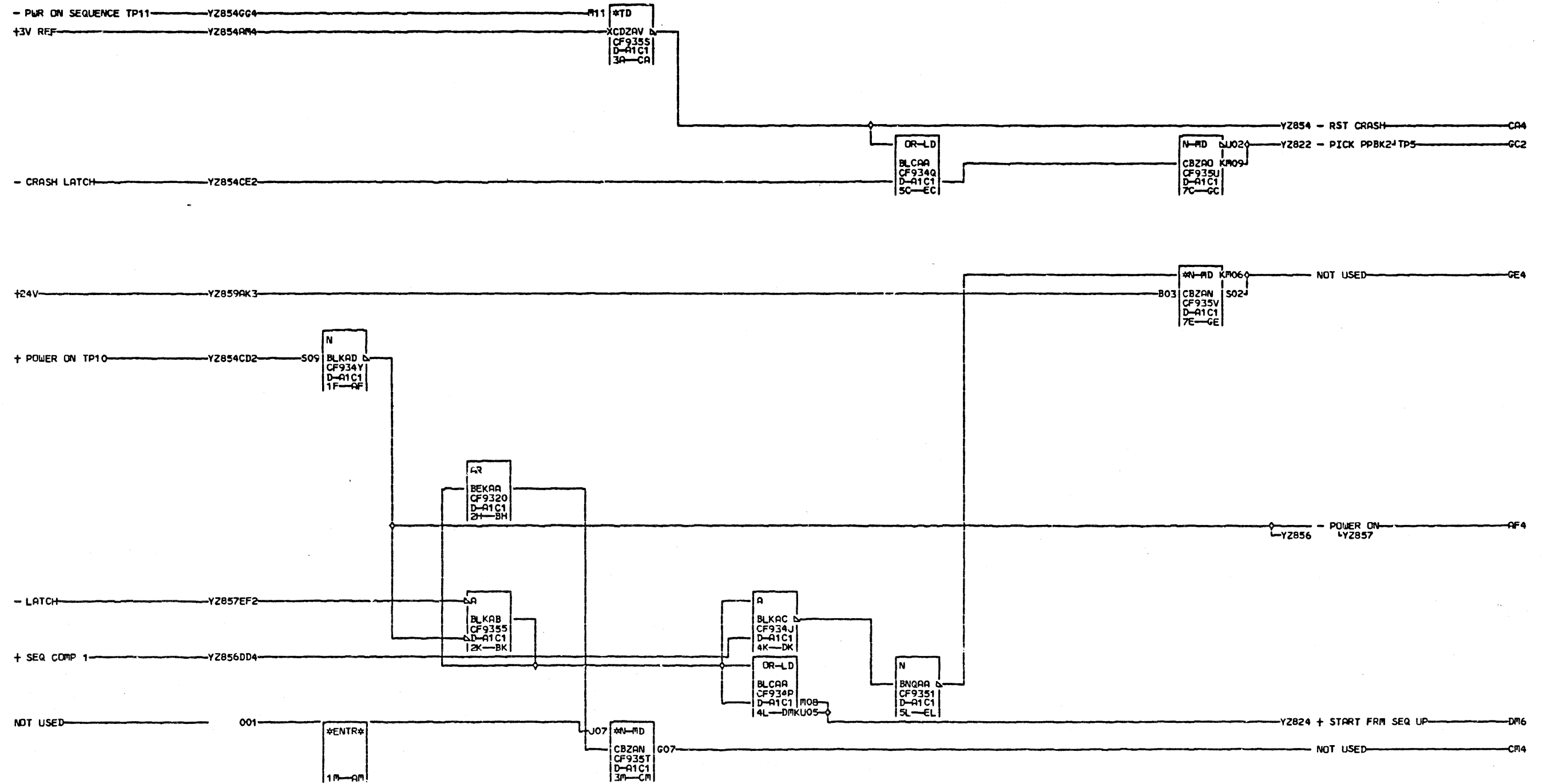


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12-02-80 344268
03-31-80 344614
06-12-81 344860

+24VCLTS DETECTION CIRCUIT		
DATE	07-06-81	MACH. 3705
LCG	282	FRAME C1
		P.N. 185728B
IBM COFF.	SCD BLK.	GZ

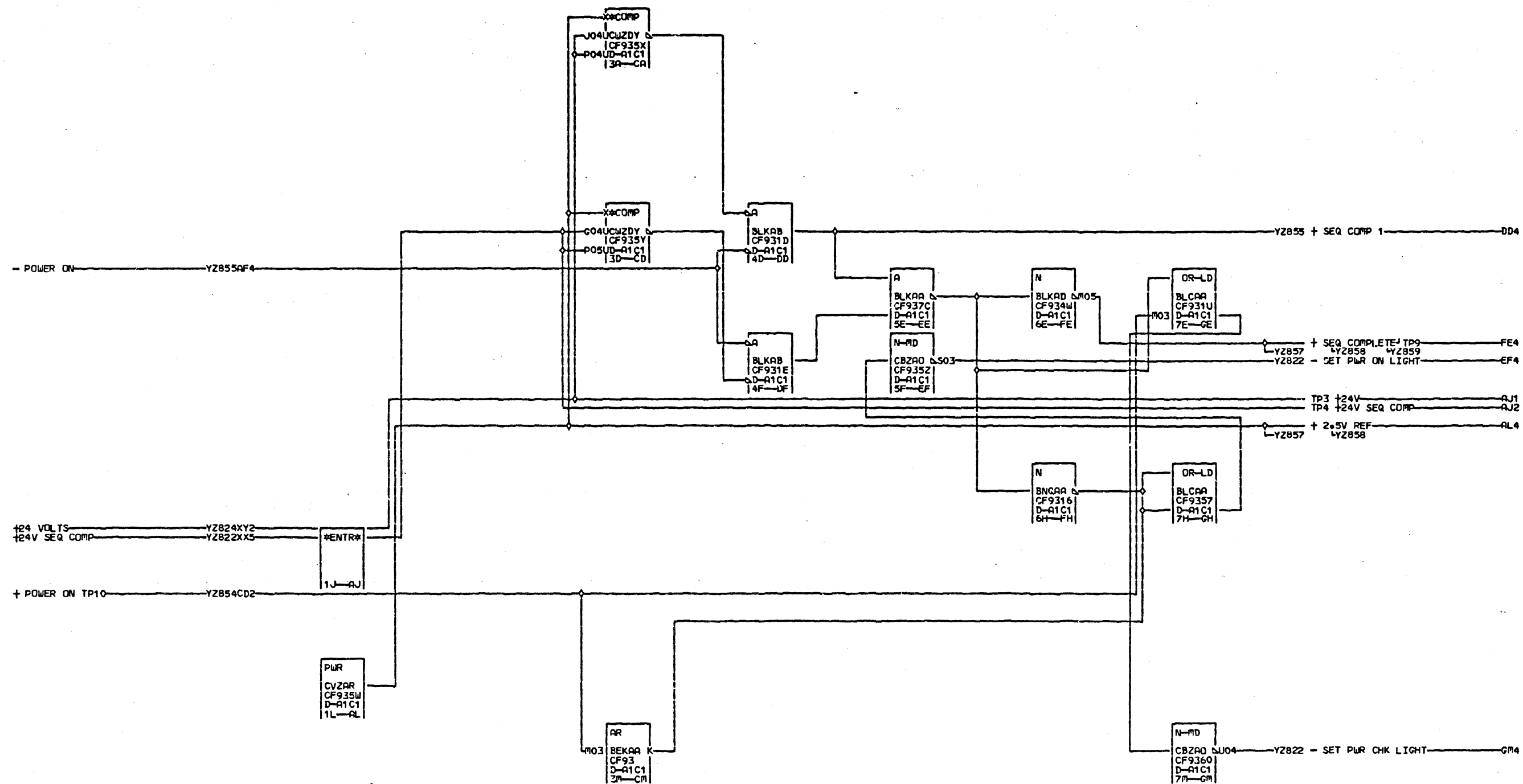
Y
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12-02-80 344268
03-31-80 344614

PPBK2 CONTACTOR AND HD1 RELAY PICK CONTROL CIRCUITS			
DATE 03-27-81 MACH. 3705			
LOG	187 FRAME	01	5
P.N. 1857289			000
IBM CORP.	SCD BLK.	GP	

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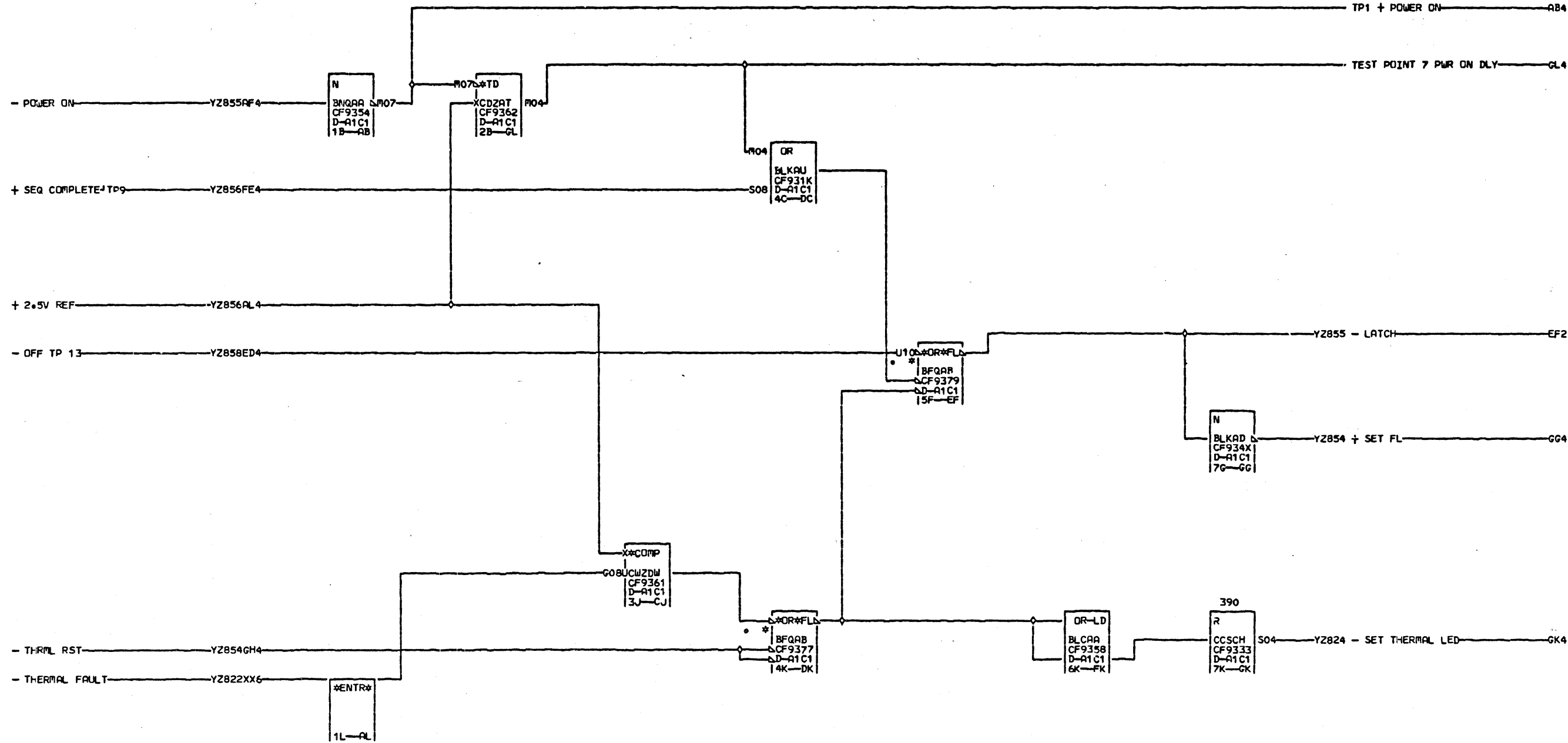


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12-02-80 344268
03-31-80 344614

POWER ON AND POWER CHECK INDICATOR CIRCUITS			
DATE	03-27-81	MACH.	3705
LOG	187	FRAME	01
P.N.		1857290	
IBM CORP.	SCD	BLK.	GN

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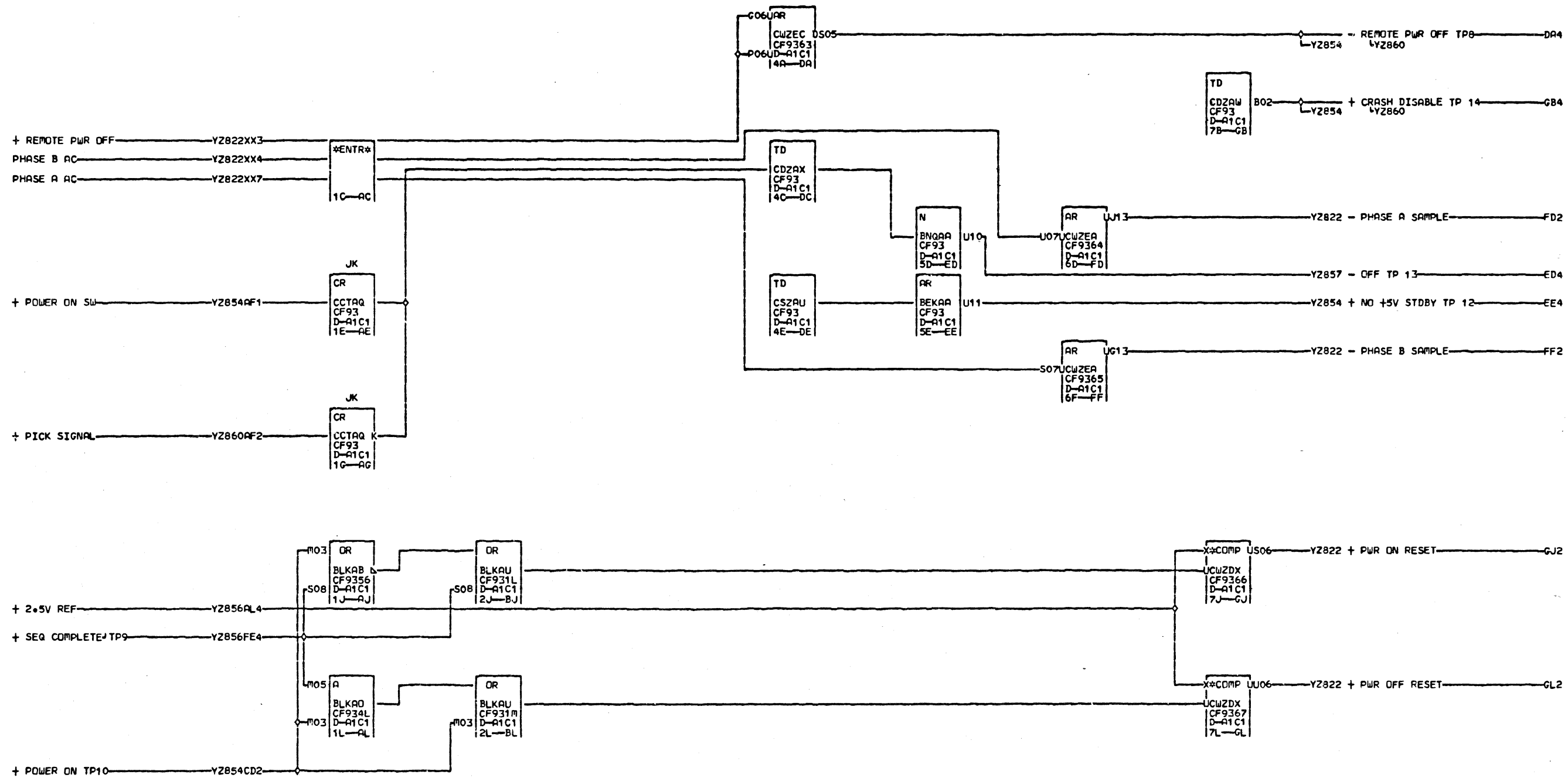


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12-02-80 344268
03-31-80 344614

SEQUENCE UP AND THERMAL LED CIRCUITRY			
DATE	03-27-81	MACH.	3705
LOG	187	FRAME	01
		P.N.	1857291
IBR CORP.	SCR BLK.		GM

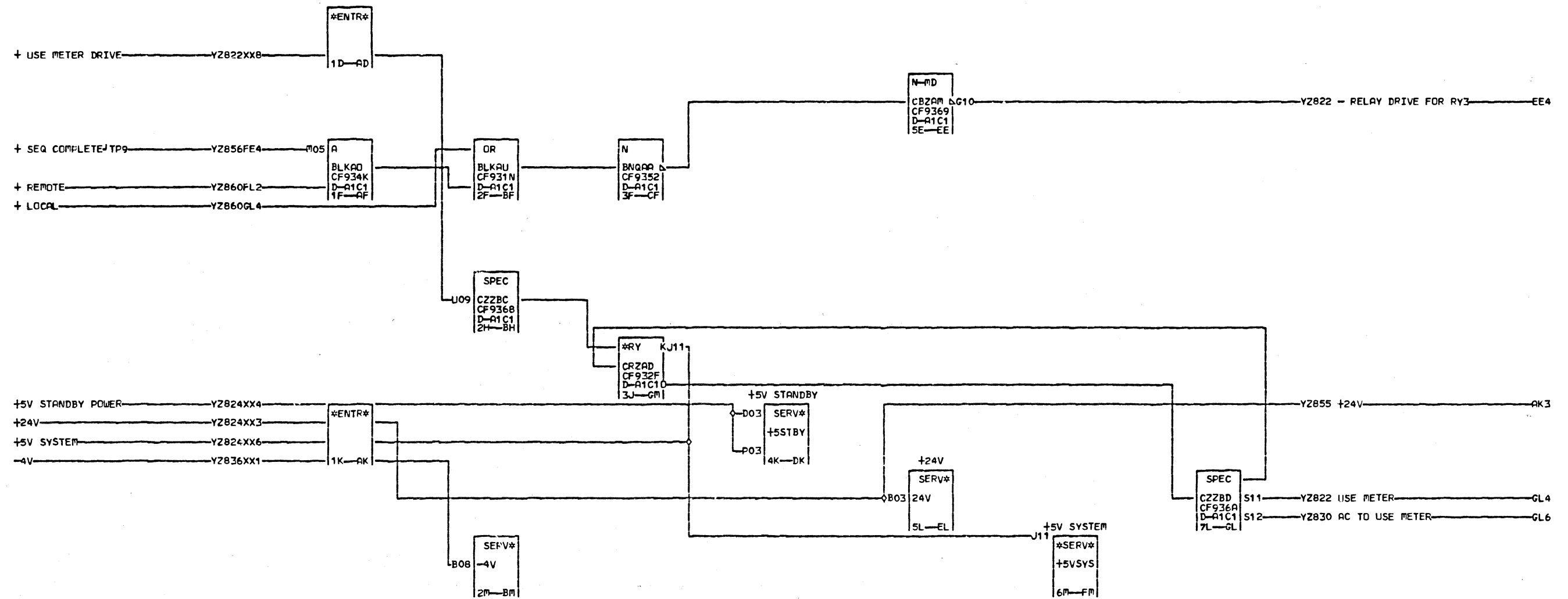
Y
Z
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12-02-80 344268

Y
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PHASE A/B SAMPLE CIRCUITRY AND				Y
PWR ON/OFF RESET CIRCUITRY				
DATE	01-16-81	MACH.	3705	Z
LOG	989	FRAME	01	5
		P.N.	1857292	8
IBM CORP.	SCD BLK.	GP		000

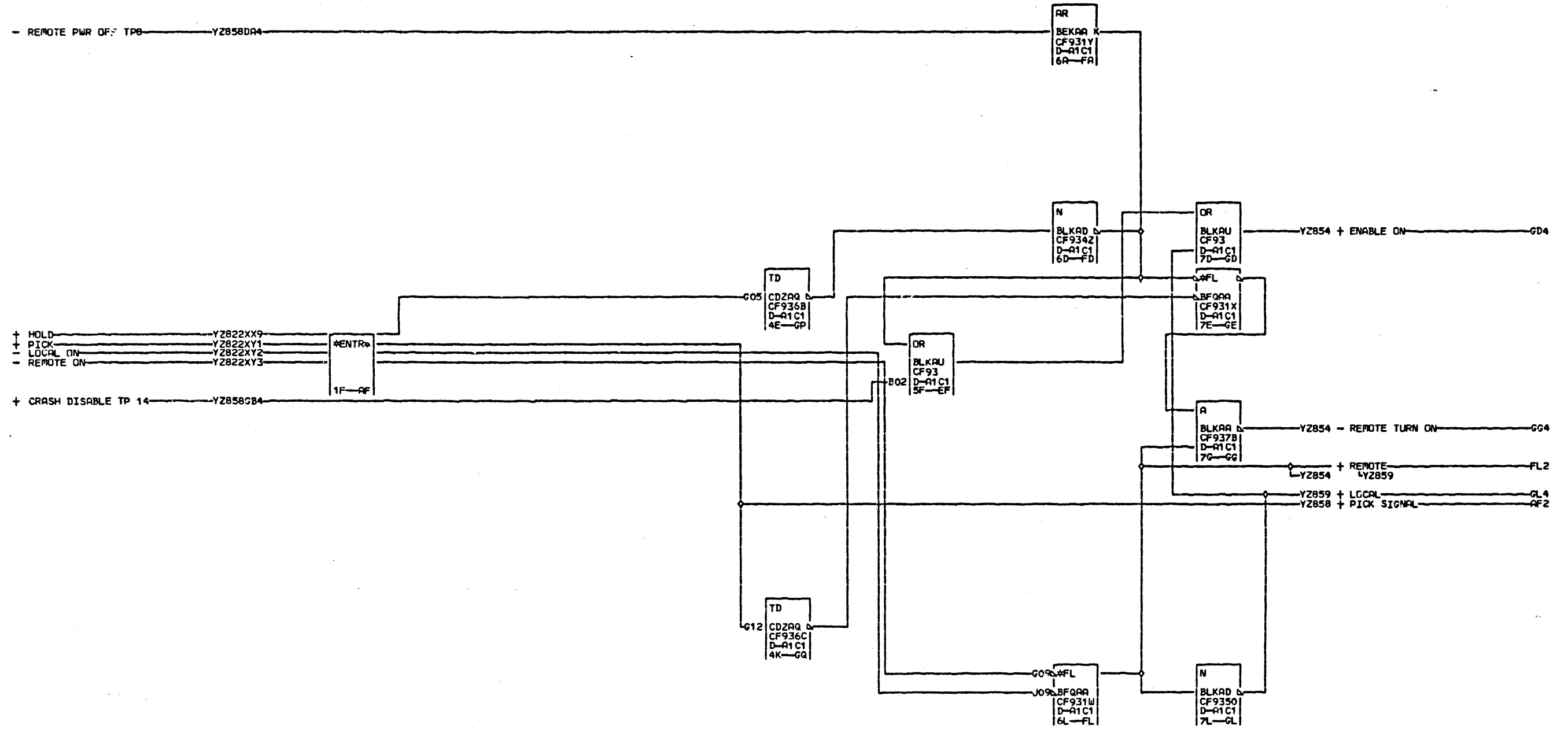


12-02-80 344268
07-22-81 344860

USAGE METER AND EPO CTRL CIRCUITS		
DATE	07-22-81	MACH. 3705
LOG	319	FRAME 01
	P.N. 1857293	
IBM CORP.	SCD BLK.	GN

000

000



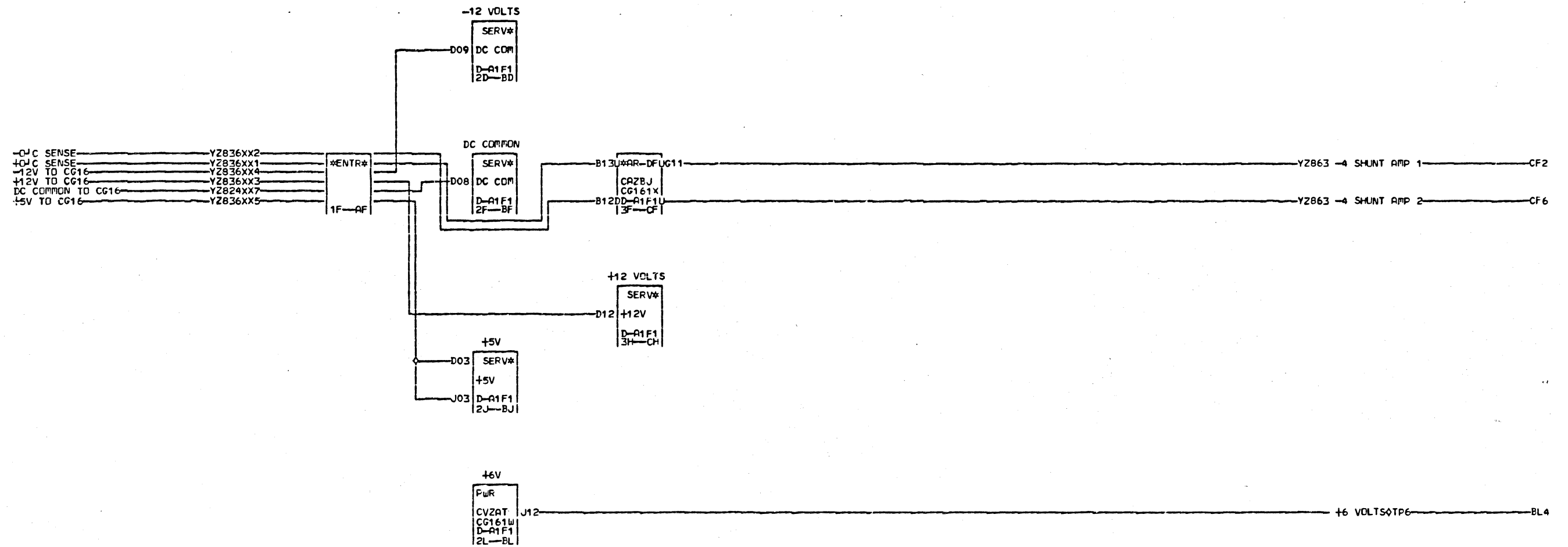
+ HOLD — YZ822XX9
 + PICK — YZ822XY1
 - LOCAL ON — YZ822XY2
 - REMOTE ON — YZ822XY3
 + CRASH DISABLE TP 14 — YZ858CB4

LOCAL AND REMOTE POWER CTRL
 DATE 03-27-81 PACH. 3705
 LOG 187 FRAME 01
 P.N. 1857294
 IBA CORP. SCD BLK. GR

12-02-80 344268
 03-31-80 344614

YZ860
 000

YZ860
 000

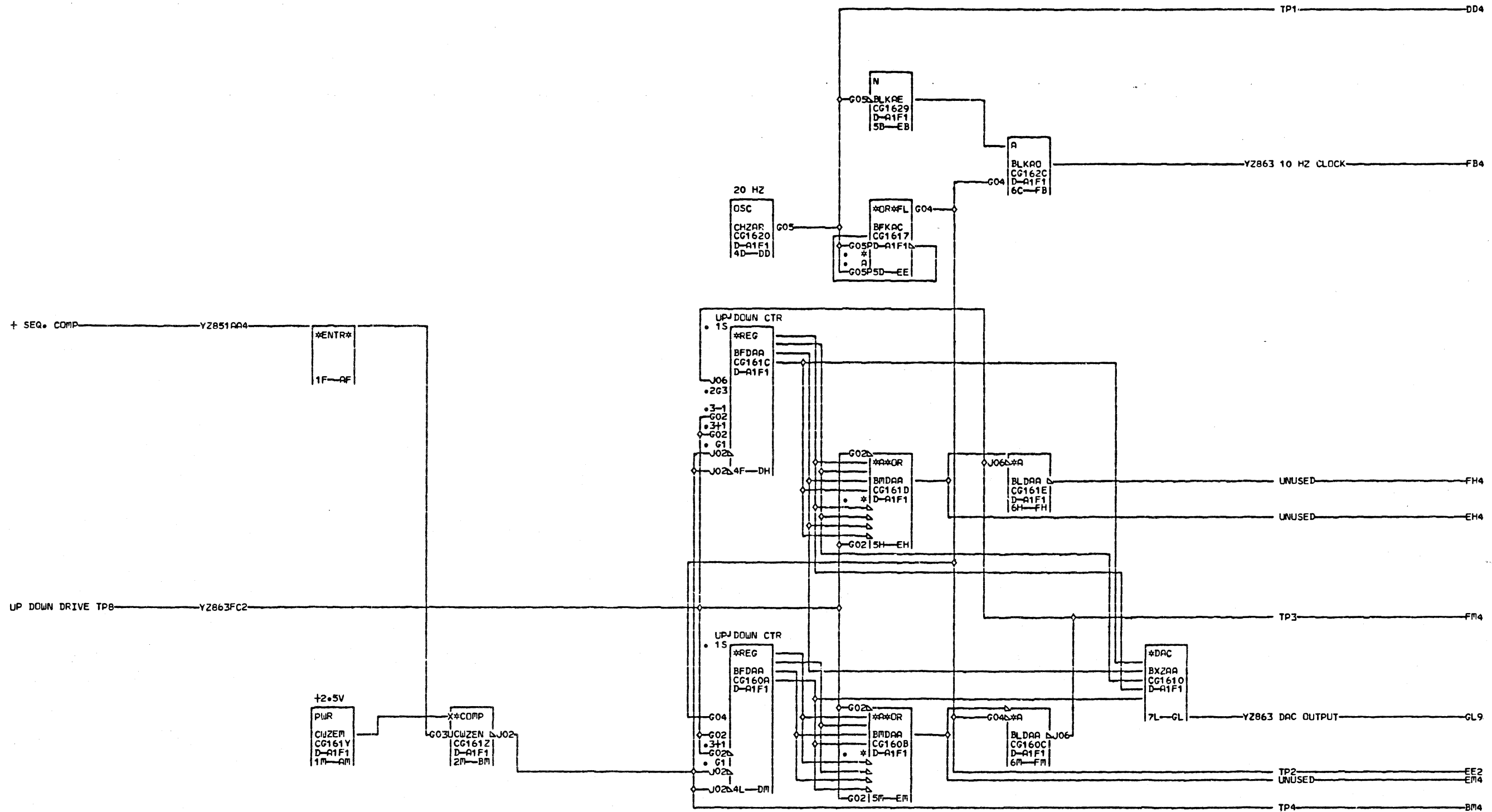


Y
Z
8
6
1
000

12-02-80 344268
03-31-81 344614
06-12-81 344860

OVER CURRENT SENSING			
DATE	07-06-81	PAGE	3705
LOG	282	FRAME	01
		P.N.	1857295
IBF COFF.	SCD BLK.	GN	

Y
Z
8
6
1
000



+ SEQ. COMP YZ851AA4

ENTR
1F-AF

UP DOWN DRIVE TP8 YZ863FC2

+2.5V
PIWR
CG161Y
D-A1F1
1M-AM

*COMP
CG161Z
D-A1F1
2M-BM

UP DOWN CTR
*REG
BFDAA
CG161C
D-A1F1
J06
• 2G3
• 3-1
• 3+1
• G02
• G1
J02
J02-4F-DH

UP DOWN CTR
*REG
BFDAA
CG160A
D-A1F1
G04
• G02
• 3+1
• G02
• G1
J02
J02-4L-DM

*A#OR
BMDAA
CG161D
D-A1F1
G02
• *
G02-5H-EH

*A#OR
BMDAA
CG160B
D-A1F1
G02
• *
G02-5F-EM

N
BLKAE
CG1629
D-A1F1
5D-EB
G05

*OR#FL
BFKAC
CG1617
D-A1F1
G04
• *
• A
G05P5D-EE

A
BLKAO
CG162C
D-A1F1
6C-FB
G04

*A
BLDAA
CG161E
D-A1F1
6H-FH
J06

*A
BLDAA
CG160C
D-A1F1
6M-FM
J06

*DAC
BX2AA
CG1610
D-A1F1
7L-GL

TP1 DD4

YZ863 10 HZ CLOCK FB4

UNUSED FH4

UNUSED EH4

TP3 FM4

YZ863 DAC OUTPUT GL9

TP2 EE2

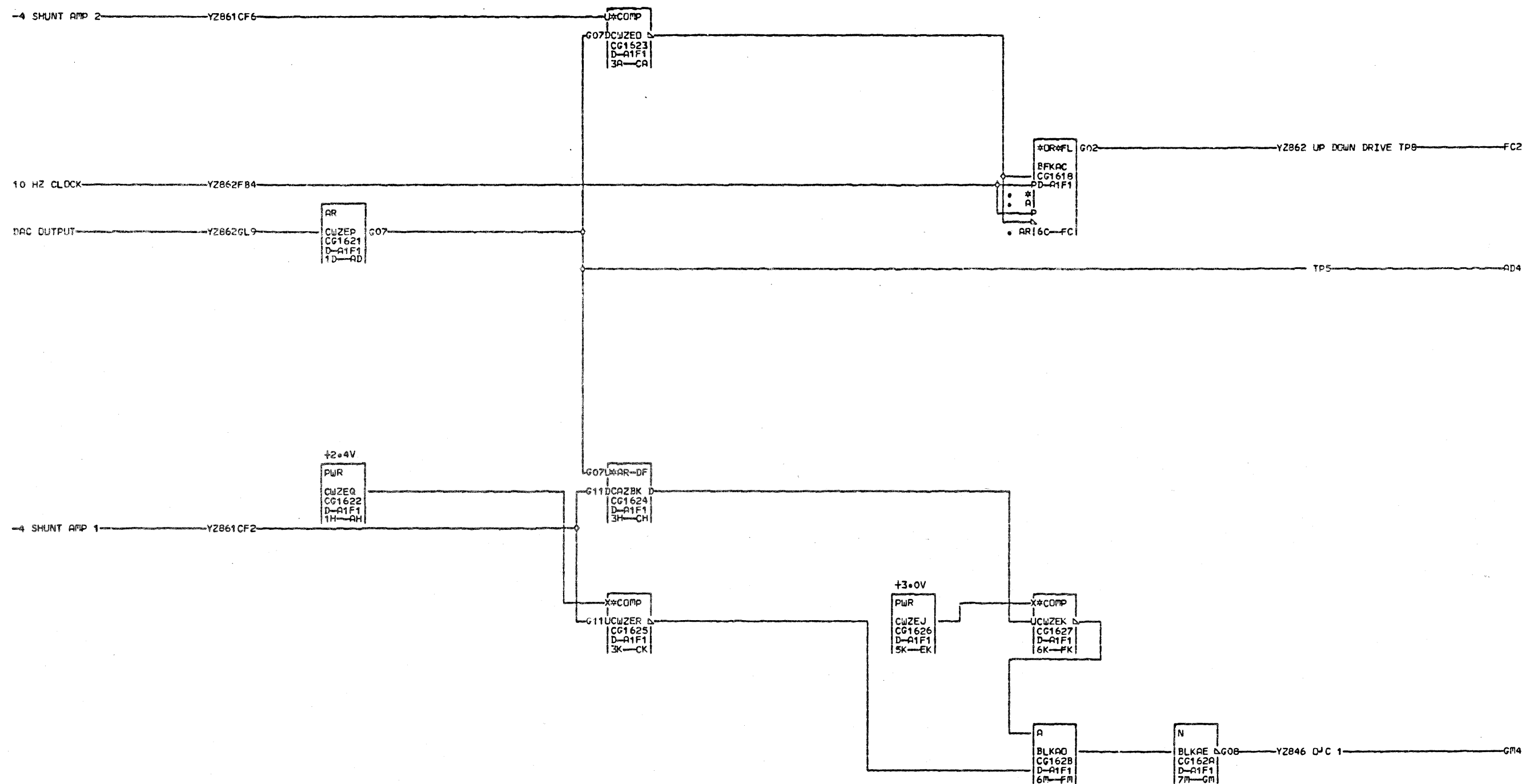
UNUSED EM4

TP4 BM4

12-02-80 344268

20HZ CLOCK AND DAC			
DATE	01-16-81	MACH.	3705
LOG	991	FRAME	01
		P.N.	1857296
IBM CORP.	BLK.	CM	000

Y
Z
8
6
2
000



000

12-02-80 344268

GROSS AND DELTA OVER CURRENT			
DATE	01-16-81	MACH.	3705
LOG	989	FRAME	01
		PoN.	1857297
IBM CORP.	SCD	BLK.	GN

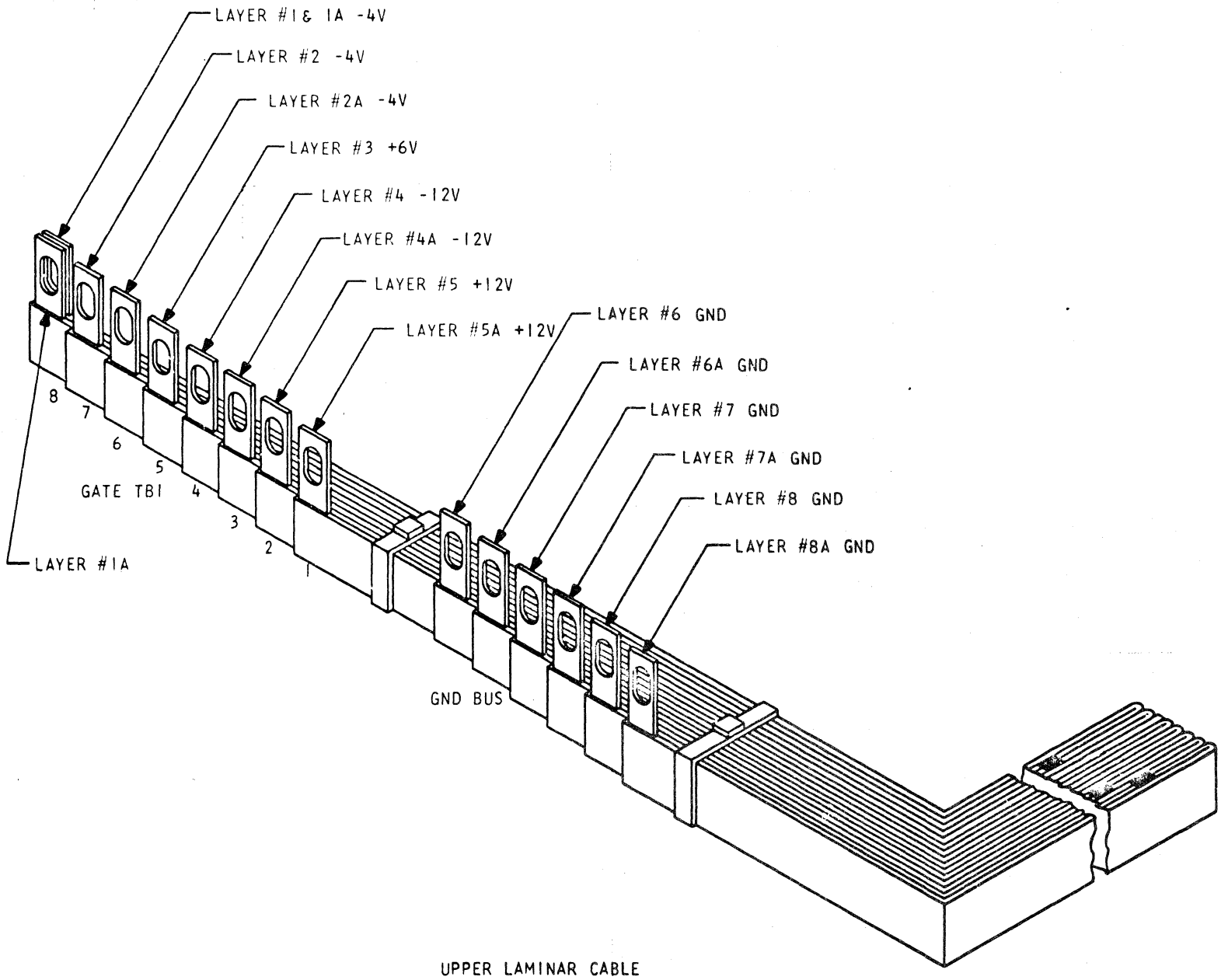
YZ863

C
1857596

PART NO
1857596

LOGIC PG NO
YZ 880

SHEET 1 OF 4



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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			JAN82	344836		
	3705-80						
DESIGN	JJS	AUG 81	SHT 1 OF 4				
DETAIL							
CHECK	CDN	AUG 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	MTL	AUG 81				YZ 880	

1857596

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1857596

PART NO
1857596

LOGIC PG NO
YZ 880

LAMINAR PLUG CHART

SHEET 3 OF 4

LAYER NO.	TERM	WIRE NO'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
6	25	25	A2	S1 C10	GND	BLACK	5182916
		25		S1 D13			
2A	26	26	A1	S6 C05	-4	WHITE	5182920
		26		S6 D02			
8A	27	27	A1	S6 C02	GND	BLACK	5182916
		27		S6 D05			
1A	28	28	B2	D1 B13	-4	WHITE	5182920
		28		D1 C10			
6A	29	29	B2	D1 B10	GND	BLACK	5182916
		29		D1 C13			
2	30	30	B1	D6 B05	-4	WHITE	5182920
		30		D6 C02			
8	31	31	B1	D6 B02	GND	BLACK	5182916
		31		D6 C05			
1A	32	32	B2	G1 C13	-4	WHITE	5182920
		32		G1 D10			
6A	33	33	B2	G1 C10	GND	BLACK	5182916
		33		G1 D13			
2	34	34	B1	G6 C05	-4	WHITE	5182920
		34		G6 D02			
8	35	35	B1	G6 C02	GND	BLACK	5182916
		35		G6 D05			
1A	36	36	B2	K1 E13	-4	WHITE	5182920
		36		L1 A10			
6A	37	37	B2	K1 E10	GND	BLACK	5182916
		37		L1 A13			
2	38	38	B1	K6 E05	-4	WHITE	5182920
		38		L6 A02			
8	39	39	B1	K6 E02	GND	BLACK	5182916
		39		L6 A05			
3	40	40	B1	L6 D04	+6	ORANGE	5182917
		40		L1 D11			
5	41	41	B2	M1 B11	+12	GRAY	5182919
		41		M1 C11			
5A	42	42	B1	M6 B04	+12	GRAY	5182919
		42		M6 C04			
5	43	43	B2	M1 D11	+12	GRAY	5182919
		43		N1 A11			
5A	44	44	B1	M6 E04	+12	GRAY	5182919
		44		N6 A04			
4	45	45	B2	N1 C11	-12	VIOLET	5182918
		45		N1 E11			
8	46	46	B1	P6 B02	GND	BLACK	5182916
		46		P6 C05			
1A	47	47	B2	P1 B13	-4	WHITE	5182920
		47		P1 C10			
4A	48	48	B1	N6 D04	-12	VIOLET	5182918
		48		N6 E04			

NOTES:

- 1 NOT USED FOR CA4 OR RPL FEATURE
- 2 FOR CA4 FEATURE WIRE NO. 40 TERMINATES AT PIN LOCATION O1A-B14B11
- 3 FOR RPL FEATURE IN O1A-B1 LOCATION WIRE # 46 TERMINATES AT PIN LOCATION O1A-B1U2B11 OR O1A-B1L6004.

2 3

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE	JAN82	344836		
3705-80					
DESIGN	JJS	AUG 81	SHT 3 OF 4		
DETAIL					
CHECK	C DN	AUG 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO
APPRO	MTL	AUG 81			LOGIC PG NO
					YZ 880

1857596

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1857596

PART NO
1857596

LOGIC PG NO
YZ 880

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 D13			

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

12

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IBM		DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE	JAN82	344836		
	3705-80				
DESIGN	JJS	AUG 81	SHT 4 OF 4		
DETAIL					
CHECK	CDN	AUG 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO
APPRO	MTL	AUG 81			LOGIC PG NO
					YZ 880

1857596

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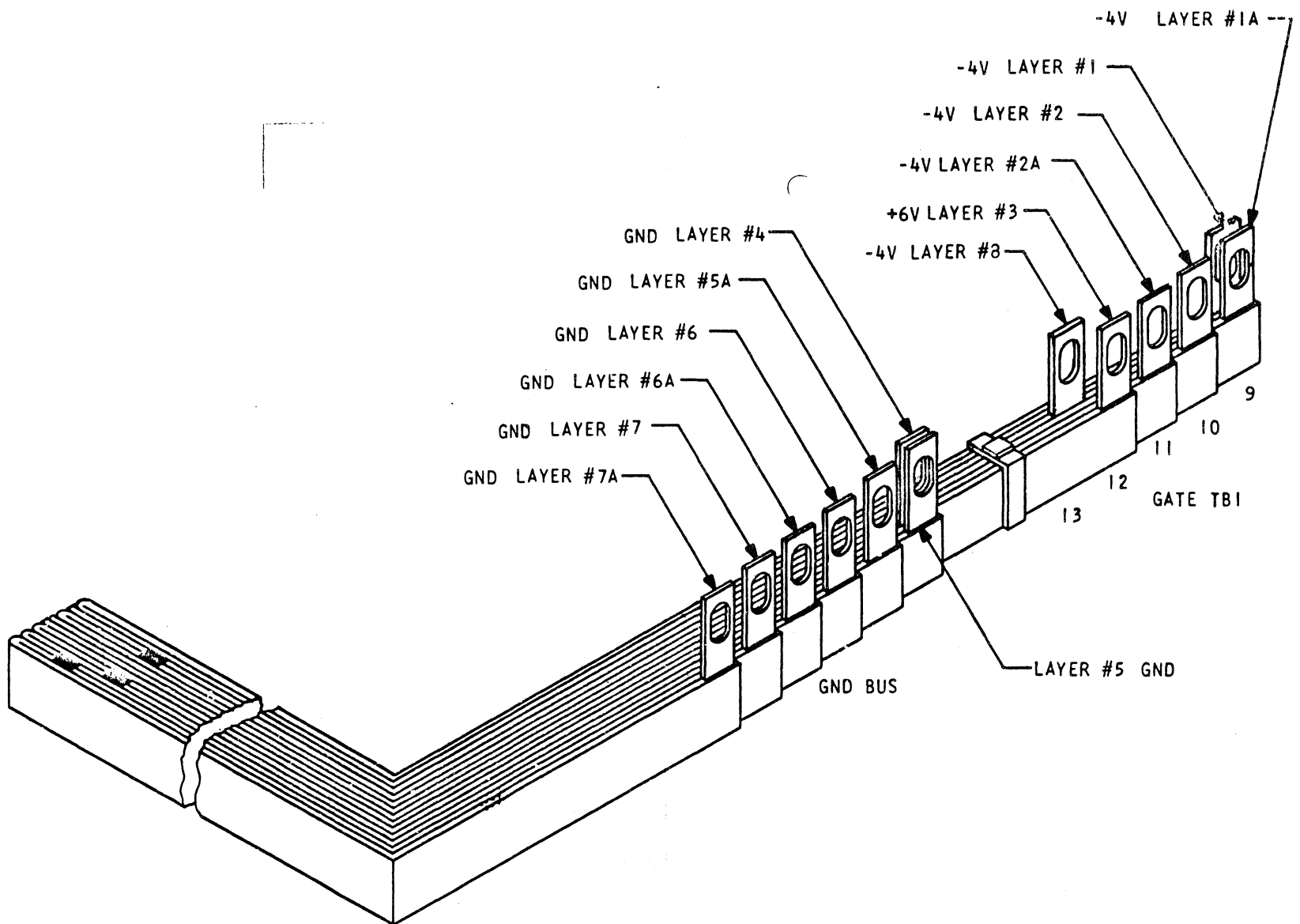
PART NO
1857597

LOGIC PG NO
YZ 882

SHEET 1 OF 3

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1857597



LOWER LAMINAR CABLE

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			JAN82	344836		
	3705-80						
DESIGN	JJS	AUG 81	SHT 1 OF 3				
DETAIL							
CHECK	CDN	AUG 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	MTL	AUG 81				YZ 882	

1857597

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PART NO
1857597

LOGIC PG NO
YZ 882

LAMINAR PLUG CHART

SHEET 2 OF 3

1857597

LAYER NO.	TERM	WIRE NO.'S	BD	PIN LOC	VOLTAGE	COLOR	JUMPER ASM
7A	1	1	A4	DI B10	GND	BLACK	5182916
		1		DI C13			
2A	2	2	A4	DI B13	-4	WHITE	5182920
		2		DI 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 E13	-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	DI B10	GND	BLACK	5182916
		23		DI C13			
2	24	24	B4	DI B13	-4	WHITE	5182920
		24		DI C10			

* IF CA 1 OR CA 4
WIRE 18 TO Q2B11
WIRE 21 TO T4B11
WIRE 21 TO S2B11
RPL FEATURE IF IS IN
OIA-A4 LOCATION
WIRE 21 TO U2B11
TIE BACK WIRE 18
TIE BACK WIRE 21

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IBM			DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE		JAN82	344836		
	3705-80					
DESIGN	JJS	AUG 81	SHT 2 OF 3			
DETAIL						
CHECK	CDN	AUG 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO
APPRO	MTL	AUG 81				YZ 882

1857597

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1857597

PART NO
1857597

LOGIC PG NO
YZ 882

LAMINAR PLUG CHART

SHEET 3 OF 3

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			
	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		U3 B12			1750347
		45	B3	C5 B12			

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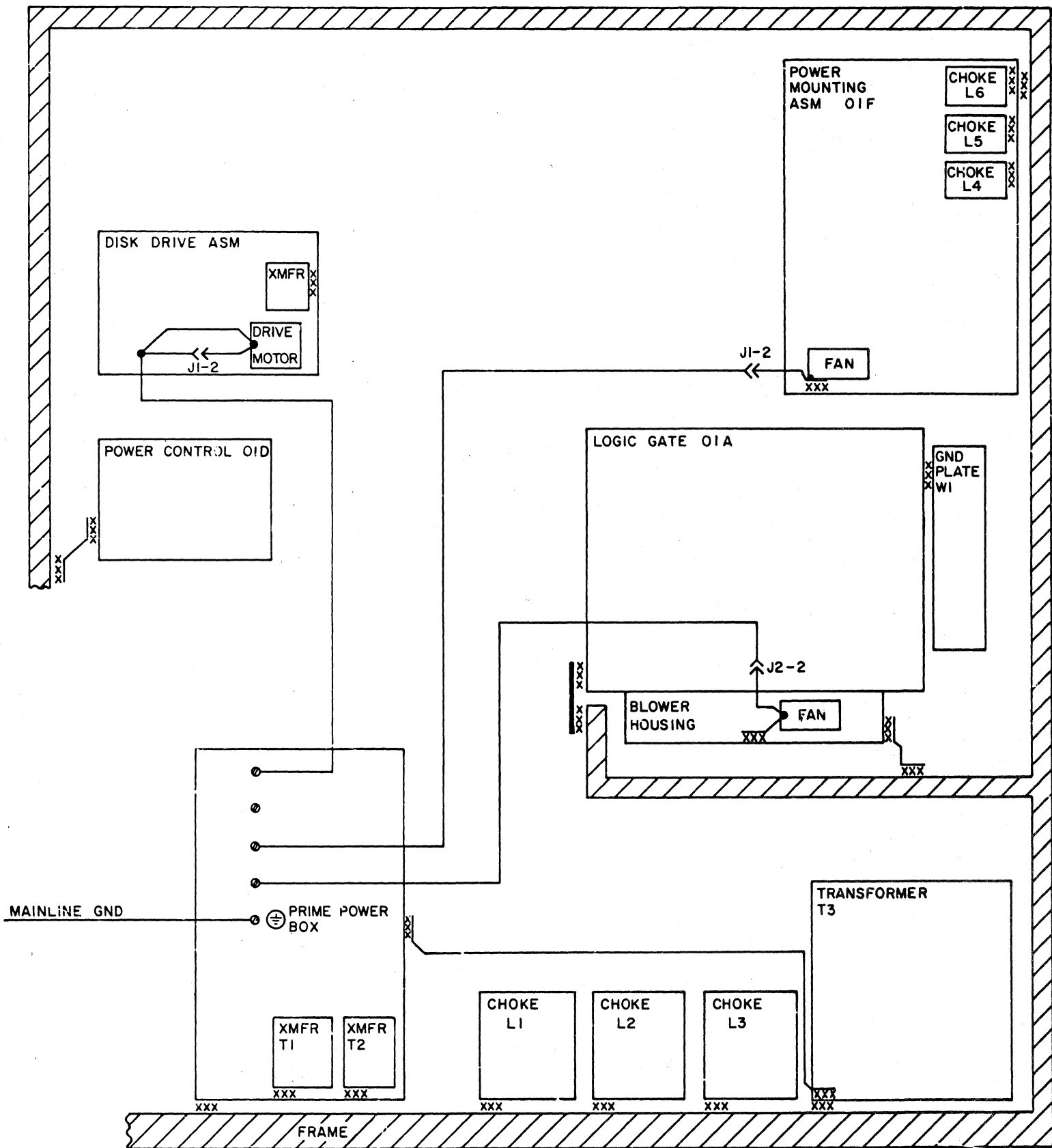
IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	LAMINAR BUS CABLE			JAN82	344836		
	3705-80						
DESIGN	JJS	AUG 81	SHT 3 OF 3				
DETAIL							
CHECK	CDN	AUG 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	MTL	AUG 81				YZ 882	

1857597

C

2730493 C

PART NO 2730493 LOGIC PG NO YZ801



NOTES

- 1 SAFETY GROUND WIRING IS GREEN/YELLOW
- 2 EXTERNAL TOOTH STARWASHERS INSTALLED BETWEEN TERMINAL AND FRAME

LEGEND: XXX = EXTERNAL TOOTH STARWASHER

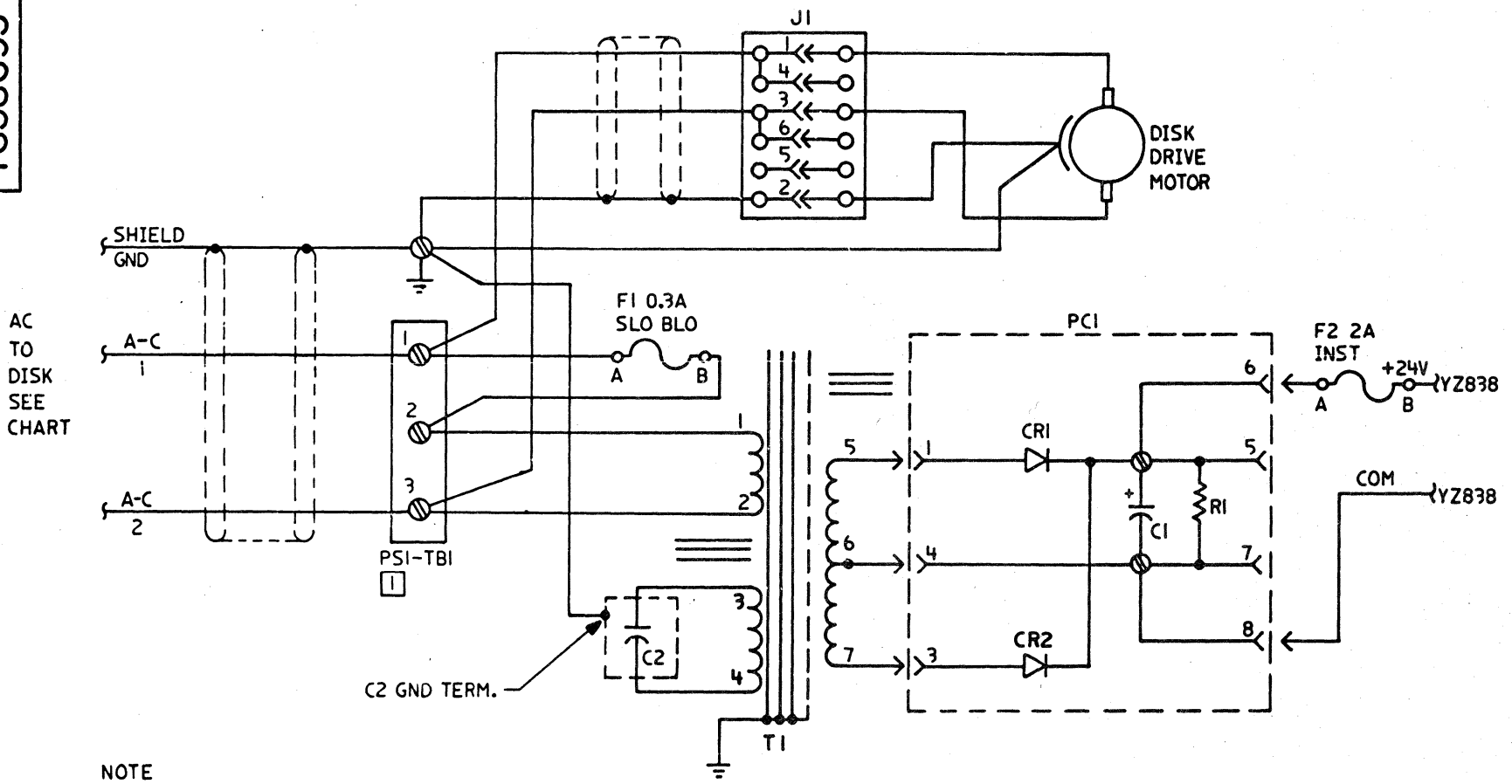
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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	GROUND SCHEMATIC			REL	MAR 81	344614	
DESIGN	JJS	JAN 81	SHT 1 OF 1				
DETAIL	RTS	JAN 81					
CHECK	CDN	JAN 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	LOGIC PG NO
APPRO	MTL	JAN 81	JJS JAN 81				YZ801

2730493 C

7838693
C

PART NO 7838693 LOGIC PG NO YZ840



NOTE
 [1] PSI-TBI IS PART OF TRANSFORMER ASM (T1)

COMPONENT LIST		
C1	5214366	CAPACITOR, 24000 μF, 30V DC
C2	5252850	CAPACITOR, 2.0 μF, 660V AC-50 Hz
OR C2	5252837	CAPACITOR, 1.5 μF, 660V AC-60 Hz
CR1, CR2	1149212	RECTIFIER, 3A
F1	78998	FUSE, 0.3A SLO BLO 250V
F2	855231	FUSE, 2A INST 250V
J1	725557	CONNECTOR, 3 POSITION
PCI	1851948	PC BOARD ASSEMBLY
R1	303653	RESISTOR, 200 Ω ±5%, 10W
T1	1770778	FERRO ASM, 50 Hz, 24VA
OR T1	1770779	FERRO ASM, 60 Hz, 24VA

PRIMARY POWER BOX CONNECTION CHART			
DISK LOCATION	CONNECT A-C1 TO:	CONNECT A-C2 TO:	CONNECT GND AND SHIELD TO:
60 Hz MAIN FRAME (SEE YZ804)	K2 - T2	K2 - T3	FRAME GND (K2 MOUNTING BRKT)
50 Hz WT MAIN FRAME (SEE YZ808)	K2 - T2	K2 - 2B	FRAME GND (K2 MOUNTING BRKT)
200V 60 Hz JAPAN MAIN FRAME (SEE YZ812)	K2 - T2	K2 - T3	FRAME GND (K2 MOUNTING BRKT)
50 Hz JAPAN MAIN FRAME (SEE YZ816)	K2 - T2	K2 - T3	FRAME GND (K2 MOUNTING BRKT)

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	AC POWER TO DISK			MAR81	344614		
				JAN82	344836		
DESIGN	JJS	MAR81	SHT 1 OF 1				
DETAIL	TS	MAR81					
CHECK	CDN	MAR81	CLASSIFICATION	MUST CONFORM TO ENG SPEC		DEVELOPMENT NO	
APPRO	MTL	MAR81	JJS MAR81			LOGIC PG NO	
						YZ840	

7838693
C

7838744 C

CAPACITORS				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
01D-C1	YZ824	500UF, 50V	2175473	
01D-C2	YZ824	3600UF, 20V	5475847	
01D-C3	YZ824	6000UF, 55V	2158757	
01D-C4	YZ824	2UF, 50V	1643863	
01D-C5	YZ824	2UF, 50V	1643863	
01D-C6	YZ824	2UF, 50V	1643863	
01F-C1	YZ830	120KUF, 15V	5796393	1
01F-C2	YZ830	120KUF, 15V	5796393	1
01F-C3	YZ830	150KUF, 10V	1864291	2
01F-C4	YZ830	120KUF, 15V	5796393	
01F-C5	YZ830	120KUF, 15V	5796393	
01F-C9	YZ830	120KUF, 15V	5796393	3
01F-C10	YZ830	120KUF, 15V	5796393	3
01F-C13	YZ830	.01UF, 100V	491228	ON ASM 1785390
01F-C14	YZ830	.01UF, 100V	491228	ON ASM 1785390
01F-C15	YZ830	.01UF, 100V	491228	ON ASM 1785390
01F-C16	YZ830	.01UF, 100V	491228	ON ASM 1785390
01F-C17	YZ830	.01UF, 100V	491228	ON ASM 1785390
01F-C18	YZ830	.01UF, 100V	491228	ON ASM 1785390
PPB-TB1	YZ804	.01UF, 1000V AC	1643861	ASM WITH 3 CAPS
PPB-CP-C1	YZ804	6UF, 330V AC	5252807	60HZ
PPB-CP-C2	YZ804	6UF, 330V AC	5252807	60HZ
PPB-CP-C3	YZ804	6UF, 330V AC	5252807	60HZ
PPB-CP-C1	YZ808	5UF, 660V AC	4120825	50HZ
PPB-CP-C2	YZ808	5UF, 660V AC	4120825	50HZ
PPB-CP-C3	YZ808	5UF, 660V AC	4120825	50HZ
PPB-C1	YZ824	18,000UF, 55V	5239119	
PPB-C6	YZ824	1500UF, 50V	2181753	
OP PNL-C1	YZ822	.22UF, 200V	2396888	ACROSS CE METER
OP PNL-C2	YZ822	.22UF, 200V	2396888	ACROSS CUST METER
5V PS-C1	YZ836	6.8UF, 20V	222088	PART OF ASM 1856417
5V PS-C2	YZ836	6.8UF, 20V	222088	ASM 1856424
5V PS-C3	YZ836	6.8UF, 20V	222088	ASM 1856424
5V PS-C4	YZ836	6.8UF, 20V	222088	ASM 1856424
5V PS-C5	YZ836	6.8UF, 20V	222088	ASM 1856424

CIRCUIT BREAKERS 50HZ				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
PPB-CB1		3 POLE, 15A	5719454	200/220V JAPAN 220/235 V & WT
PPB-CB1		4 POLE, 15A	5182907	380/408V
PPB-CP2		1A	5998403	200/220V JAPAN
PPB-CP2		1A	4113264	WT EXCEPT JAPAN
CP ASM-CP1		10A	2218599	} ALL SYSTEMS
CP ASM-CP2		10A	2218599	
CP ASM-CP3		20A	5180400	

RESISTORS				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
01D-R1,R2	YZ824	3.9KΩ, 1W	1643856	
01D-R3	YZ824	360KΩ, 1/2W	1643857	
01D-R4	YZ824	10Ω, 25W	5261815	
01D-R5	YZ824	50Ω, 50W	5240461	ASM 1851853
01F-R1,R2	YZ830	1Ω, 50W	2195636	
01F-R3	YZ830	3Ω, 25W	5700287	
01F-R4	YZ830	6Ω, 50W	2410187	
01F-R5	YZ830	10Ω, 25W	5261815	
01F-R6	YZ830	200Ω, 1/4W	492615	
THRU R11	(PART OF	ASM'S 1772396	OR 1785390)	
01F-R12	YZ830	250Ω, 25W	2102582	MOUNTED ON TOP
THRU R14	(PART OF	ASM'S 8566058	OR 8566072)	SCREEN
PPB-R1	YZ824	1KΩ, 2W	1843872	
PPB-R2	YZ824	3.9KΩ, 1W	1643856	
5V PS-R1	YZ836	.4Ω, 25W	2449171	PART OF ASM 1856417
5V PS-R2	YZ836	50Ω, 4W, POT	8496449	
5V PS-R3	YZ836	51Ω, 2W	472580	} ASM 1757913
5V PS-R4	YZ836	51Ω, 2W	472580	

CIRCUIT BREAKERS 60HZ				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
PPB-CB1	YZ802,810	3 POLE, 15A	5719454	
PPB-CP1	YZ804,812	7A	2229542	208/230V
PPB-CP1	YZ812	3A	2494128	200V
PPB-CP2	YZ804,812	1A	5998403	
CP ASM-CP1	YZ830	10A	2218599	
CP ASM-CP2	YZ830	10A	2218599	
CP ASM-CP3	YZ830	20A	5180400	

LINE FILTERS			
LOCATION	LOGIC PAGE	P/N	NOTES
PPB-FL1-4	YZ802,6,8,10,14	1770797	FL-4 IN 380/408V 50HZ ONLY
PPB-FL1-4	YZ808	4236662	W/RES P/N 5318934 IN FRANCE

MISC				
LOCATION	LOGIC PAGE	DESCRIPTION	P/N	NOTES
AC TO OXD	YZ824	TOROIDAL CORE	825468	
5V PS-F1	YZ836	FUSE 6A	303679	
GATE ASM	YZ822	THERMAL SW	5257518	(155°F)
-4V BUS	YZ822	THERMAL SW	5213442	(190°F)

- NOTES
- 1 CHANGED TO 450KμF, 6.3V, P/N 5616823 AFTER EC 344970
 - 2 CHANGED TO 300KμF, 7.5V, P/N 165686, AFTER EC 344970
 - 3 NOT INSTALLED AFTER EC 344970

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	COMPONENTS CROSS REFERENCE			JUN81	344860		
	3705-80			JAN82	344836		
DESIGN	JJS	JUN 81	SHT 1 OF 2				
DETAIL	TS	JUN 81					
CHECK	CDN	JUN 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	MTL	JUN 81				YZ890	

7838744 C

7838744 C

PART NO
7838744

LOGIC PG. NO
YZ890

SHEET 2 OF 2

VOLTAGE REGULATORS				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
OID-Q1,Q3	YZ824	5V REG	2709759	
OID-Q2	YZ824	5V REG	2709759	
OIF-SCRI-6	YZ830	-4V	4429934	
OIF-SCR7-12	YZ830	+6V, -12V,+12V	595256	+12V
5V PS-VR1	YZ836	5V REG	2709759	
5V PS-VR2	YZ836	5V REG	8278911	PART OF ASM 1856417
5V PS-Q1	YZ836	T-358	2391346	

DIODES				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
OID-D1 THRU D7	YZ824	RK	1643855	
PPB-D1 THRU D3	YZ824	RK	1643855	
PPB-D4,D5	YZ822	AM	5270652	
PPB-D6	YZ822	ACROSS RY1	2111232	WT ONLY

TRANSFORMERS				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
PPB-T1	YZ804/12	200/208/230V WT	1859339	
PPB-T1	YZ804	208/230V DOM	826102	
PPB-T2	YZ824	STANDBY POWER	1643911	
BASE-T3	YZ830	PRIMARY	1643926	

CHOKES				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
BASE-L1 THRU L3	YZ830	-4V	1643924	
OIF-L4,L5 L6	YZ830	+6V, +12V,-12V	1643925	

CONTACTORS/RELAYS				
LOCATION	LOGIC PAGE	VALUE	P/N	NOTES
OID-RY1	YZ822	SEQ CMPLT	2278766	
OID-RY2	YZ822	EPO	2278766	
EPO PANEL RY3	YZ822	SEQ CMPLT TO CPU	2278519	
PPB-K1	YZ822	60HZ	1589254	
PPB-K1	YZ822	50HZ	5351162	
PPB-K2	YZ822	60HZ DOM, 50HZ JAPAN	5351162	
PPB-K2	YZ822	50HZ WT	5214578	
PPB-RY1	YZ822	ON ASM 8498447	2145046	WT ONLY

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IBM				DATE	CHANGE NO	DATE	CHANGE NO
NAME	COMPONENTS CROSS REFERENCE			JUN 81	344860		
	3705-80			JAN82	344836		
DESIGN	JJS	JUN 81	SHT 2 OF 2				
DETAIL	TS	JUN 81					
CHECK	CDN	JUN 81	CLASSIFICATION	MUST CONFORM TO ENG SPEC	DEVELOPMENT NO	LOGIC PG NO	
APPRO	MTL	JUN 81				YZ890	

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