

PAGE 1 OF 8

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
4800	A	1	001
4810	A	1	001
4820	A	1	001
4830	A	1	001
4840	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
1	002	7885	A

001
(ENTRY POINT A)

THIS IS A PAPER ONLY MAP. THERE IS NO ASSOCIATED MAP PROGRAM. (SEE DIAGNOSTIC SERVICE GUIDE 05.00.00).
GO TO THE ENTRY POINT AND FOLLOW THE MAP.

DISKETTE UNIT POWER SUPPLY MAP.

IS THIS A 4964 DISKETTE UNIT?

Y N

002
GO TO MAP 7885, ENTRY POINT A.

003
POWER OFF.
WAS THERE A BURNED SMELL OR SMOKE?

Y N

004
INSPECT AND RESEAT ANY LOOSE CONNECTIONS ON THE POWER SUPPLY PC BOARD.
TIGHTEN CAPACITOR MOUNTING SCREWS ON THE POWER SUPPLY PC BOARD.
ADJUST THE CE METER FOR RESISTANCE.
REMOVE THE FUSE.
MEASURE IT'S RESISTANCE WITH THE MULTIMETER.
EXCHANGE BAD FUSE. SEE MAINTENANCE INFORMATION MANUAL PARAGRAPH A3.6.1.

POWER ON.

IF A BAD FUSE OR LOOSE CONNECTION WAS FOUND IPL AND RUN AUTO MAPS.
IS POWER ON INDICATOR ON?

Y N

005
MEASURE VOLTAGE AT POWER ON INDICATOR CONNECTOR. VOLTAGE SHOULD MEASURE 1.4 TO 1.9 VDC BETWEEN WIRES ON INDICATOR.
IS VOLTAGE OUTSIDE SPECIFIED LIMIT?

Y N

006
EXCHANGE POWER ON INDICATOR LED. SEE MAINTENANCE INFORMATION MANUAL PARA A3.6.2. THE YELLOW WIRE IN CONNECTOR WILL GO TO LONGEST WIRE ON LED.
VERIFY THE REPAIR.

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DISKETTE UNIT POWER SUPPLY MAP

MAP 4880-2

PAGE 2 OF 8

007
POWER OFF.

DISCONNECT THE DISKETTE UNIT POWER CABLE.

REMOVE COVER AT THE POWER SWITCH.
REMOVE THE POWER SWITCH MOUNTING SCREWS, AND
PULL THE SWITCH OUT OF THE POWER BOX.
PLUG IN THE DISKETTE UNIT POWER CABLE.

CAUTION

CONNECT METER WIRE(S) TO POWER SWITCH OUTPUT
TERMINALS 1 AND 4.

POWER ON.

MEASURE FOR LINE VOLTAGE.

IS LINE VOLTAGE PRESENT AT POWER SWITCH OUTPUT
TERMINALS 1 AND 4?

Y N

008
POWER OFF.

DISCONNECT THE DISKETTE UNIT POWER CABLE.
CHECK FOR AC LINE VOLTAGE AT THE AC OUTLET.
IS AC LINE VOLTAGE PRESENT?

Y N

009
INFORM THE CUSTOMER THAT THE FAILURE IS IN
HIS POWER SERVICE.

010
POWER OFF.

DISCONNECT THE DISKETTE UNIT POWER CABLE.

TURN POWER SWITCH TO THE ON POSITION AND
MEASURE RESISTANCE BETWEEN TERMINALS 1 AND 2
AND BETWEEN 4 AND 5 ON THE POWER SWITCH.
IS LESS THAN 5 OHMS MEASURED?

Y N

011
EXCHANGE THE POWER ON SWITCH. SEE
MAINTENANCE INFORMATION MANUAL PARA
A3.6.3.
VERIFY THE REPAIR.

012
DISCONNECT THE AC LINE FILTER FROM TERMINALS
2 AND 5 OF THE POWER SWITCH. MEASURE THE
RESISTANCE BETWEEN THE AC LINE CABLE
CONNECTIONS.
IS LESS THAN 5 OHMS MEASURED?

Y N

013
EXCHANGE THE AC LINE FILTER. SEE
MAINTENANCE INFORMATION MANUAL PARA
A3.6.4.
REINSTALL THE COVER FOR POWER ON SWITCH.
VERIFY THE REPAIR.

014
EXCHANGE THE POWER CABLE.
RECONNECT AC LINE FILTER TO TERMINALS 2 AND
5 OF THE POWER SWITCH.
REINSTALL COVER ON POWER SWITCH.
VERIFY THE REPAIR.

015
MEASURE RESISTANCE OF FUSE AND EXCHANGE IF
OPEN.
WAS FUSE OPEN?

Y N

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11JAN80 PN1635313
EC877041 PEC375475
MAP 4880-2

016
POWER ON.

MEASURE FOR LINE VOLTAGE BETWEEN TB1
TERMINALS USED FOR LINE VOLTAGE. SEE MLD
VOL.1 SF13C.
IS LINE VOLTAGE PRESENT AT TRANSFORMER
PRIMARY?
Y N

017
REPAIR OR EXCHANGE CABLE FROM POWER ON
SWITCH TO TB1.
REINSTALL COVER FOR POWER ON SWITCH.
VERIFY THE REPAIR.

018
GO TO PAGE 4, STEP 030, ENTRY POINT B.

019
DISCONNECT THE PLUG OF THE DC DISTRIBUTION
CABLE FROM THE PRINTED CIRCUIT BOARD .

POWER ON.

POWER OFF.

CHECK FUSE.
IS FUSE OK?
Y N

020
EXCHANGE FUSE.

DISCONNECT AC CAPACITOR (SEE MAINTENANCE
INFORMATION MANUAL PARA. A3.15.8) AND
ENSURE THAT THE WIRE(S) DO NOT TOUCH EACH
OTHER OR THE FRAME IN THE FOLLOWING TEST
(WRAP WITH TAPE IF AVAILABLE).

DANGER ----- 500 VOLTS AC PRESENT.

POWER ON.

POWER OFF.

CHECK FUSE.
IS FUSE OK?
Y N

021
REINSTALL AC CAPACITOR.
EXCHANGE FUSE.
DISCONNECT THE TRANSFORMER PLUG FROM THE
POWER SUPPLY PC BOARD.
CHECK FOR A SHORT CIRCUIT BETWEEN EVERY
COMBINATION OF TRANSFORMER INPUT PINS ON
THE PC BOARD.
WAS ANOTHER SHORT CIRCUIT OBSERVED?
Y N

022
EXCHANGE THE TRANSFORMER. SEE
MAINTENANCE INFORMATION MANUAL PARA
A3.15.7.
VERIFY THE REPAIR.

023
EXCHANGE THE POWER SUPPLY PC BOARD. SEE
MAINTENANCE INFORMATION MANUAL PARA.
A3.15.5.
VERIFY THE REPAIR.

024
EXCHANGE AC CAPACITOR.
NOTE: DO NOT ATTEMPT TO OPERATE WITHOUT THE
AC CAPACITOR.
SEE MAINTENANCE INFORMATION MANUAL PARA
A3.15.9.
VERIFY THE REPAIR.

025
TRACE OUT SHORT CIRCUIT IN THE DC LOAD OR DC
DISTRIBUTION CABLE.

026
OBSERVE THE FAN MOTOR WHILE POWERING ON.

POWER ON.
DID THE FAN MOTOR RUN AT POWER ON?

Y N

027
POWER OFF.

DISCONNECT CABLE LEAD(S) AT AC FAN.

CHECK FOR AC LINE VOLTAGE BETWEEN THE
LEAD(S) IN THE POWER CABLE GOING TO THE AC
FAN.

IS AC LINE VOLTAGE PRESENT?

Y N

028
CHECK THE CABLE FROM THE POWER ON SWITCH
TO THE AC FAN.
REPAIR OR EXCHANGE.
VERIFY THE REPAIR.

029
EXCHANGE THE FAN.
VERIFY THE REPAIR.

030
(ENTRY POINT B)

MEASURE THE DC VOLT. AT THE POWER SUPPLY PC
BOARD OUTPUT PLUG WITH REFERENCE TO FRAME
GROUND. SEE CHART ON RIGHT AND MLD VOL.1
SF130.

PLUG PIN	MEASURE
PIN 1	+4.5 TO +5.5 VDC
PIN 2	GROUND
PIN 3	+21.1 TO +26.7 VDC
PIN 4	-4.5 TO -5.5 VDC
PIN 5	GROUND

ARE THE DC VOLTAGES CORRECT?

Y N

031
MEASURE THE AC VOLTAGES AT THE POWER SUPPLY
PC BOARD OUTPUT PLUG (SEE LIST 1 AT RIGHT).
NOTE WHICH VOLTAGES ARE INSIDE THE LIMIT.
SEE MAINTENANCE INFORMATION MANUAL
PARA.A3.15.

* LIST 1 *

VAC	BETWEEN PINS	LIMIT
24.0	1 AND 2	23.0 TO 27.0
24.0	2 AND 3	23.0 TO 27.0
5.0	4 AND 5	5.0 TO 7.0
5.0	5 AND 6	5.0 TO 7.0
5.0	7 AND 8	5.0 TO 7.0
5.0	8 AND 9	5.0 TO 7.0

RECORD VOLTAGES (TO BE USED LATER)

ARE ALL AC VOLTAGES INSIDE THE LIMIT?

Y N

032
ARE ANY AC VOLTAGES ZERO IN EARLIER LIST?

Y N

033
POWER OFF.

CHECK FOR AC LINE VOLTAGE VALUE.
CHECK IF TERMINALS ARE SET FOR CORRECT
VOLTAGE ON TB1.
IS THE TRANSFORMER SET CORRECTLY?

Y N

034
POWER OFF.

CONNECT LINE VOLTAGE TO THE CORRECT
TERMINAL.
VERIFY THE REPAIR.

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DISKETTE UNIT POWER SUPPLY MAP

MAP 4880-5

PAGE 5 OF 8

035
POWER ON.

CHECK THAT LINE VOLTAGE AT THE TRANSFORMER
BETWEEN TERMINALS CN TB1 ARE + OR - 10 % OF
NORMAL.

IS THE LINE VOLTAGE INSIDE THE LIMIT?

Y N

036
POWER OFF.

DISCONNECT THE DISKETTE UNIT POWER CABLE.
CHECK FOR LINE VOLTAGE AT THE CUSTOMER'S
OUTLET.

IS THE LINE VOLTAGE INSIDE THE LIMIT?

Y N

037
INFORM THE CUSTOMER THAT THE PROBLEM IS IN
HIS POWER SERVICE.

038
REMOVE METAL CASE AT POWER SWITCH.
PLUG IN THE DISKETTE UNIT POWER CABLE.
CHECK FOR LINE VOLTAGE BETWEEN TERMINALS 2
AND 5 AT THE POWER SWITCH.

IS LINE VOLTAGE INSIDE THE LIMIT?

Y N

039
POWER OFF.

DISCONNECT THE DISKETTE UNIT POWER CABLE.
REMOVE THE AC LINE FILTER.
MEASURE THE RESISTANCE OF THE AC LINE
CABLE BETWEEN THE PLUG AND THE CONNECTIONS
TO THE AC LINE FILTER.

IS LESS THAN 5 OHMS MEASURED?

Y N

040
EXCHANGE THE POWER CABLE.
REINSTALL THE COVER ON THE POWER SWITCH.
REINSTALL LINE FILTER.
VERIFY THE REPAIR.

041
EXCHANGE THE AC LINE FILTER. SEE
MAINTENANCE INFORMATION MANUAL PARA
A3.6.4.

REINSTALL COVER FOR POWER ON SWITCH.
VERIFY THE REPAIR.

042
DISCONNECT THE DISKETTE UNIT POWER CABLE.

TURN POWER SWITCH TO THE ON POSITION.
MEASURE THE RESISTANCE OF EACH SIDE OF THE
POWER SWITCH.

IS LESS THAN 5 OHMS MEASURED ON EACH SIDE?

Y N

043
EXCHANGE POWER ON SWITCH. SEE MAINTENANCE
INFORMATION MANUAL PARA A3.6.3.
VERIFY THE REPAIR.

044
REPAIR OR EXCHANGE CABLE FROM TB1 TO THE
POWER SWITCH.
VERIFY THE REPAIR.

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11JAN80 PN1635313
EC877041 PEC375475
MAP 4880-5

045
DANGER ----- 500 VOLTS AC. USE CAUTION.
POWER OFF.

REMOVE PLASTIC TOP FROM AC CAPACITOR.
SET CE METER TO 500 VCLT AC.
PUT METER LEAD(S) ON AC CAPACITOR.

POWER ON.
MEASURE AND RECORD VOLTAGE AT AC CAPACITOR.

POWER OFF.
WAS MORE THAN 200 VOLTS AC MEASURED?
Y N

046
DANGER ----- 500 VOLTS AC. USE CAUTION.

REMOVE THE LEAD(S) FROM THE AC CAPACITOR
ENSURING THEY DO NOT TOUCH WHEN MEASURING.
PUT METER LEAD(S) ON TRANSFORMER LEAD(S)
JUST REMOVED.

POWER ON.

MEASURE AND RECORD VOLTAGE BETWEEN LEAD(S).
NOTE: DO NOT ATTEMPT TO OPERATE WITHOUT THE
AC CAPACITOR.

POWER OFF.
WAS MORE THAN 200 VOLTS AC MEASURED?
Y N

047
EXCHANGE THE TRANSFORMER. SEE MAINTENANCE
INFORMATION MANUAL PARA A3.15.7.
VERIFY THE REPAIR.

048
EXCHANGE THE AC CAPACITOR.
NOTE: DO NOT ATTEMPT TO OPERATE WITHOUT THE
AC CAPACITOR. SEE MAINTENANCE INFORMATION
MANUAL PARA A3.15.9.
VERIFY THE REPAIR.

049
DANGER ----- 500 VOLTS AC. USE CAUTION.

REMOVE THE TRANSFORMER LEAD(S) FROM THE AC
CAPACITOR ENSURING THAT THEY DO NOT TOUCH WHEN
MEASURING.
PUT METER LEAD(S) ON TRANSFORMER LEAD(S) JUST
REMOVED.

POWER ON.

THE VOLTAGE MEASURED SHOULD BE LOWER THAN THE
LAST TIME IF THE CAPACITOR IS GOOD.
NOTE: DO NOT ATTEMPT TO OPERATE WITHOUT THE AC
CAPACITOR.
MEASURE AND RECORD THE VOLTAGE ON THE LEAD(S).

POWER OFF.
DID THE VOLTAGE DECREASE 40 VOLTS OR MORE?
Y N

050
EXCHANGE THE AC CAPACITOR.
NOTE: DO NOT ATTEMPT TO OPERATE WITHOUT THE
AC CAPACITOR. SEE MAINTENANCE INFORMATION
MANUAL PARA A3.15.9.
VERIFY THE REPAIR.

051
REINSTALL THE AC CAPACITOR.
WERE ANY VOLTAGES IN LIST 1, WHICH WAS
RECORDED EARLIER, INSIDE THE LIMIT WHEN
MEASURED?
Y N

PAGE 7 OF 8

052
POWER OFF.

EXCHANGE THE TRANSFORMER. SEE
MAINTENANCE INFORMATION MANUAL PARA
A3.15.7.
VERIFY THE REPAIR.

053
SEE EARLIER RECORDED OUT OF LIMIT
VOLTAGES FROM LIST 1. REMOVE FROM PC
BOARD THE AC INPUT CONNECTOR LEAD(S)
THAT WERE OUTSIDE OF THE LIMIT.

POWER ON.

MEASURE THE AC VOLTAGES AT THE
TRANSFORMER LEAD(S) WHICH HAVE BEEN
DISCONNECTED.
IS THE FAILING AC VOLTAGE INSIDE THE
LIMIT WHEN THEIR IS NO LOAD?
Y N

054
POWER OFF.

CHECK CRIMP CONNECTION ON
AFFECTED TRANSFORMER LEAD(S) BEFORE
EXCHANGING TRANSFORMER.
VERIFY THE REPAIR.

055
EXCHANGE THE POWER SUPPLY PC BOARD. SEE
MAINTENANCE INFORMATION MANUAL PARA.
A3.15.5.
VERIFY THE REPAIR.

056
POWER OFF.

DISCONNECT THE TRANSFORMER LEAD PLUG FROM
THE PC BOARD.
CHECK FOR A SHORT CIRCUIT BETWEEN EVERY
COMBINATION OF TRANSFORMER INPUT PINS ON
THE PC BOARD. SEE MLD VOL. 1 SF130.
DID YOU OBSERVE A SHORT CIRCUIT OTHER THAN
BETWEEN PINS 2,5 AND 8?
Y N

057
EXCHANGE THE TRANSFORMER. SEE
MAINTENANCE INFORMATION MANUAL PARA
A3.15.7.
VERIFY THE REPAIR.

058
EXCHANGE THE POWER SUPPLY PC BOARD. SEE
MAINTENANCE INFORMATION MANUAL PARA.
A3.15.5.
VERIFY THE REPAIR.

059
EXCHANGE THE POWER SUPPLY PC BOARD. SEE
MAINTENANCE INFORMATION MANUAL PARA.
A3.15.5.
VERIFY THE REPAIR.

060
POWER ON.

MEASURE THE '+ 5 VDC', '- 5 VDC', AND '+ 24
VDC' VOLTAGE TEST POINT(S) ARE ON THE DRIVE
CONTROL CARD. SEE MLD VOL. 1 SF140. THE LIMIT
IS + OR - 10%.
ARE ALL DC VOLTAGES INSIDE THE LIMIT?
Y N

061
POWER OFF.

REPAIR OR EXCHANGE THE POWER DISTRIBUTION
CABLE.
VERIFY THE REPAIR.

PAGE 8 OF 8

062
INTERMITTENT PROBLEM MAY BE CAUSED BY BAD
REGULATOR OR OVER HEATING. CHECK FOR A
LOOSE DISCRETE PART ON POWER SUPPLY PC
BOARD. EXCHANGE THE POWER SUPPLY PC BOARD.
VERIFY THE REPAIR.

063
CHECK THE POWER SUPPLY FOR A BURNED SMELL OR
SMOKE OR AN OVER HEATED PART.
IS THE POWER SUPPLY OK?
Y N

064
ADJUST THE C.E. METER FOR RESISTANCE.
CHECK THE TRANSFORMER PRIMARY AND SECONDARY
WINDING FOR A SHORT CIRCUIT BETWEEN THEM.
WAS THERE A SHORT CIRCUIT?
Y N

065
EXCHANGE THE POWER SUPPLY PC BOARD. SEE
MAINTENANCE INFORMATION MANUAL PARA.
A3.15.5.
VERIFY THE REPAIR.

066
EXCHANGE THE POWER SUPPLY PC BOARD.
EXCHANGE THE TRANSFORMER. VERIFY REPAIR.

067
CHECK THE OTHER UNIT(S) FOR BURNED SMELL OR
SMOKE.