

FILE INTERFACE MAP

PAGE 1 OF 7

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
4800	A	2	009
4800	C	5	041
4800	F	7	059
4801	D	6	052

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
5	039	4820	A
6	046	4830	A
6	054	4830	D
3	020	4880	A

001
 THIS IS AN MDI 'MANUAL MODE' MAP. (SEE DIAGNOSTIC SERVICE GUIDE 05.00.00). TO USE IT, LOAD AND EXECUTE THE MAP PROGRAM (BXXXX WHERE XXXX=MAP#). WHEN CE ACTION IS NEEDED DCP HALTS AND WILL DISPLAY MAP # AND STEP #. SEE THE HARD COPY MAP FOR THE CE ACTION.

DID I GET HERE BECAUSE THE DEVICE IS NOT READY?

MDI=\$TUXX,T4801,02,0008,ON
 Y N

002
 DID I GET HERE BECAUSE THE WRONG DISKETTE SIDE WAS SELECTED?

MDI=\$TUXX,T4803,02,0040,ON
 Y N

003
 DID I GET HERE BECAUSE DISK SPEED WAS NOT CORRECT?

MDI=\$TUXX,T4853,02,0001,ON
 Y N

004

DUMMY TEST TC ASSEMBLE SEEK ERROR ENTRY PART OF MAP

MDI=\$TUXX,T3C02,02,0001,ON
 Y N

005
 DID I GET HERE BECAUSE WRAP TEST 1 FAILED?

MDI=\$TUXX,T4853,10,
 0000000000000000000000000000,ON

Y N

IF 'LOOP STEP TO STEP' OPTION IS 'ON' (OPTION BYTE 02, BIT 01), THIS STEP WILL NEED THE PRECEDING STEP FOR SETUP.

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FILE INTERFACE MAP
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006
DID WRAP TEST 2 FAIL?
MDI=\$TUXX,T4853,10,0000C0C00C0000C91FF,OF
Y N

007
INTERNAL
GO TO PAGE 7, STEP 055,
ENTRY POINT E.
MDI=\$GOIC,TYPE=INTRNL,EP=E

008
INTERNAL
GO TO STEP 009, ENTRY POINT A.
MDI=\$GOTO,TYPE=INTRNL,EP=A

009
(ENTRY POINT A)
DIAGNOSTIC WRAP TEST FAILED. EXECUTE A SYSTEM
RESET.
DID SYSTEM RESET EXECUTE OK?
MDI=\$TUXX,T3C00,02,0708,EQ,PLNG=6,PARM=6F00C0
Y N

010
FAILED TO RESET. EXCHANGE THE DISKETTE UNIT
ATTACHMENT CARD.
VERIFY THE REPAIR.
MDI=\$FIXT

011
PROBE THE FOLLOWING VARIABLE FREQUENCY
OSCILLATOR LINES: +IGNORE WINDOW, +FILE DATA
DEGATE, +VARIABLE FREQUENCY OSCILLATOR DATA
SYNC ON THE CABLE TERMINATION CARD (PINS
B12,D07,D12). SEE MIM PARAGRAPH A2.10

VOLTAGE FOR THE GENERAL LOGIC PROBE CAN BE
FOUND ON THE DRIVE CONTROL CARD. THE
MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
VOL.1 SF140.

CE RESPONSE NECESSARY.
ARE THEY ALL AT A DOWN LEVEL (NOT ACTIVE)?
MDI=\$QUES
Y N

012
DISCONNECT ATTACH CABLE AND CHECK FOR
CONTINUITY OF THE FAILING LINE

CE RESPONSE NECESSARY.
IS IT OPEN?
MDI=\$QUES
Y N

013
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO
TO DEVICE POWER SUPPLY MAP, 4880.
MDI=\$FIXT

014
EXCHANGE ATTACH CABLE
VERIFY THE REPAIR.
MDI=\$FIXT

015
PROBE THE REMAINING VARIABLE FREQUENCY
OSCILLATOR LINES: +4F CLOCK PHASE
1, +STANDARDIZED DATA AND +STANDARDIZED CLOCK
ON THE CABLE TERMINATION CARD (PINS
D06,B09,D13). SEE MIM PARAGRAPH A2.10.

VOLTAGE FOR THE GENERAL LOGIC PROBE CAN BE
FOUND ON THE DRIVE CONTROL CARD. THE
MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
VOL.1 SF140.

CE RESPONSE NECESSARY.
ARE THEY ALL PULSING?
MDI=\$QUES
Y N

11JAN80 PN1635079

EC877041 PEC578757

MAP 4813-2

D G H
1 2 2

DISKETTE UNIT ATTACHMENT

MAP 4813-3

FILE INTERFACE MAP

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016
CHECK DISKETTE UNIT DEVICE CABLE ASSEMBLY
AND CABLE FOR CONTINUITY OF FAILING LINE.

CE RESPONSE NECESSARY.

IS IT OPEN?

MDI=\$QUES

Y N

017
EXCHANGE VARIABLE FREQUENCY OSCILLATOR
CARD. IF NO REPAIR EXCHANGE THE
DISKETTE UNIT ATTACH CARD. SEE MIM
PARAGRAPH A3.7
VERIFY THE REPAIR.
MDI=\$FIXT

018
EXCHANGE DISKETTE UNIT DEVICE CABLE
ASSEMBLY
VERIFY THE REPAIR.
MDI=\$FIXT

019
POWER OFF. REMOVE VARIABLE FREQUENCY
OSCILLATOR CARD. POWER ON. PERFORM VOLTAGE
CHECK FOR +24 AND +5 AND GROUND ON THE
TERMINAL BLOCK (PINS D11, D03, D08). SEE MIM
PARAGRAPH A2.3 AND A2.7.

CE RESPONSE NECESSARY.

IS THE VOLTAGE CORRECT?

MDI=\$QUES

Y N

020
CHECK DISKETTE UNIT DEVICE CABLE ASSEMBLY
FOR CONTINUITY. SEE MLD VOL.1 SF136.
IF OK
GO TO MAP 4880, ENTRY POINT A.
MDI=\$FIXT

021
EXCHANGE DISKETTE UNIT ATTACHMENT CARD. IF
NO REPAIR EXCHANGE THE VARIABLE FREQUENCY
OSCILLATOR CARD. SEE MIM PARAGRAPH A2.10.
VERIFY THE REPAIR.
MDI=\$FIXT

022
(ENTRY POINT B)

PROBE +ACCESS LINES 0,1,2,3 (PINS
B05, D04, B06, E10) AT CABLE TERMINATION CARD.
SEE MIM PARAGRAPH A2.10. PULSING SHOULD BE
SEEN ON EACH OF THE 4 LINES
VOLTAGE FOR THE GENERAL LOGIC PFOEE CAN BE
FOUND ON THE DRIVE CONTROL CARD. THE
MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
VOL.1 SF140.

CE RESPONSE NECESSARY.

DO ALL LINES PULSE?

MDI=\$QUXX, T4854, PLNG=8, PARM=4C/4C/C0

Y N

023
CHECK DISKETTE UNIT ATTACH CABLE FOR
CONTINUITY OF THE LINE NOT PULSING.

CE RESPONSE NECESSARY.

IS IT OPEN?

MDI=\$QUES

Y N

024
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24, +5, -5). SEE MLD
VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO
TO DEVICE POWER SUPPLY MAP, 4880.
MDI=\$FIXT

IF THE PROGRAMMER CONSOLE IS THE ACTIVE
CONSOLE:
ENTER '6' TO START THE LOOP, (B), 6, (I), (I).
THE LOOP MAY BE DIFFICULT TO 'INTERRUPT' WHEN
YOU ENTER YOUR ANSWER.
(SEE DIAGNOSTIC SERVICE GUIDE, 07.01.00.)

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MAP 4813-3

3 3

FILE INTERFACE MAP

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025

EXCHANGE DISKETTE UNIT ATTACH CABLE
 VERIFY THE REPAIR.
 MDI=\$FIXT

026

ON THE CABLE TERMINATION CARD +ACCESS LINES 0
 & 1 (B05,DC4) SHOULD BE PLUS WHILE +ACCESS
 LINES 2 & 3 (B06,D10) SHOULD BE MINUS.
 SEE MIM PARAGRAPH A2.10.

CE RESPONSE NECESSARY.

ARE THEY AT THE CORRECT LEVEL?

MDI=\$QUES

Y N

027

CHECK THE VOLTAGES IN THE DEVICE ON THE
 DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
 VOL.1 SF14C. IF THE VOLTAGES ARE CORRECT,
 EXCHANGE ATTACH CARD. IF THEY ARE BAD GO TO
 DEVICE POWER SUPPLY MAP, 4880.
 MDI=\$FIXT

028

PROBE + HEAD ENGAGE (D05) ON THE CABLE
 TERMINATION CARD. SEE MIM PARAGRAPH A2.10.
 VOLTAGE FOR THE GENERAL LOGIC PROBE CAN BE
 FOUND ON THE DRIVE CONTROL CARD. THE
 MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
 PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
 VOL.1 SF140.

IF THE PROGRAMMER CONSOLE IS THE ACTIVE
 CONSOLE:
 ENTER '6' TO START THE LOOP, (B),6,(I),(I).
 THE LOOP MAY BE DIFFICULT TO 'INTERRUPT' WHEN
 YOU ENTER YOUR ANSWER.
 (SEE DIAGNOSTIC SERVICE GUIDE, 07.01.00.)

CE RESPONSE NECESSARY.

IS IT PLUS?

MDI=\$QUXX,T4854,PLNG=8,PARM=4C/4C/CO

Y N

029

CHECK DISKETTE UNIT ATTACHMENT CABLE FOR
 CONTINUITY OF THE LINE NOT PULSING.

CE RESPONSE NECESSARY.

IS IT OPEN?

MDI=\$QUES

Y N

030

CHECK THE VOLTAGES IN THE DEVICE ON THE
 DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
 VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
 EXCHANGE ATTACH CARD. IF THEY ARE BAD GO
 TO DEVICE POWER SUPPLY MAP, 4880.
 MDI=\$FIXT

031

EXCHANGE DISKETTE UNIT ATTACH CABLE.
 VERIFY THE REPAIR.
 MDI=\$FIXT

032

GIVE A RESET

WAS RESET OK?

MDI=\$TUXX,T3C00,02,0708,EQ,PLNG=6,PARM=6F0000

Y N

033

CHECK THE VOLTAGES IN THE DEVICE ON THE
 DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
 VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
 EXCHANGE ATTACH CARD. IF THEY ARE BAD GO TO
 DEVICE POWER SUPPLY MAP, 4880.
 MDI=\$FIXT

034

GIVE A RECALIBRATE COMMAND.

WAS RECALIBRATE OK?

MDI=\$TUXX,T4852,01,00,EQ,PLNG=2,PARM=00

Y N

5 5
L M

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EC877041 PEC578757

MAP 4813-4

035
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO
TO DEVICE POWER SUPPLY MAP, 4880.
MDI=\$FIXT

036
PROBE + HEAD ENGAGE, +FILE DATA DEGATE AND
+SELECT HEAD 1(D05,DC7,B04) ON THE CABLE
TERMINATION CARD. SEE MIM PARAGRAPH A2.10.

CE RESPONSE NECESSARY.
ARE THEY ALL DOWN(NOT ACTIVE)?
MDI=\$QUES
Y N

037
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO
TO DEVICE POWER SUPPLY MAP, 4880.
MDI=\$FIXT

038
PROBE +SELECT HEAD 1(B04) ON THE CABLE
TERMINATION CARD. SEE MIM PARAGRAPH A2.10.

CE RESPONSE NECESSARY.

IS IT ACTIVE (PLUS)?
MDI=\$QUES
Y N

039
EXTERNAL
GO TO MAP 4820, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=4820,EP=A

040
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO TO
DEVICE POWER SUPPLY MAP, 4880.
MDI=\$FIXT

041
(ENTRY POINT C)

ENSURE A DISKETTE IS INSERTED
AND THE FILE DOOR IS COMPLETELY CLOSED.
ALSO CHECK THAT THE FILE CABLE IS NOT LOOSE.
NOW PROBE +INDEX PULSE(B11) AT THE CABLE
TERMINATION CARD. SEE MIM PARAGRAPH A2.10.

CE RESPONSE NECESSARY.
IS IT PULSING?
MDI=\$QUES
Y N

042
POWER DOWN DEVICE. CHECK DISKETTE UNIT
ATTACHMENT CABLE AND DISKETTE UNIT DEVICE
CABLE ASSEMBLY FOR CONTINUITY OF THE LINE
NOT PULSING(B11).

CE RESPONSE NECESSARY.
WAS EITHER CABLE OPEN?
MDI=\$QUES
Y N

043
CE RESPONSE NECESSARY.
WAS EITHER CABLE A SHORT CIRCUIT TO
GROUND(D08)?
MDI=\$QUES
Y N

VOLTAGE FOR THE GENERAL LOGIC PROBE CAN BE
FOUND ON THE DRIVE CONTROL CARD. THE
MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
VOL.1 SF140.

VOLTAGE FOR THE GENERAL LOGIC PROBE CAN BE
FOUND ON THE DRIVE CONTROL CARD. THE
MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
VOL.1 SF140.

VOLTAGE FOR THE GENERAL LOGIC PROBE CAN BE
FOUND ON THE DRIVE CONTROL CARD. THE
MINUS (BLACK WIRE) IS CONNECTED TO GROUND. THE
PLUS (RED WIRE) IS CONNECTED TO +5V. SEE MLD
VOL.1 SF140.

DISKETTE UNIT ATTACHMENT
FILE INTERFACE MAP

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044
EXCHANGE THE DISKETTE UNIT DRIVE
CONTROL CARD. SEE MIM PARAGRAPH
A3.14.
NOW PROBE THE +INDEX (B11) LINE ON THE
CABLE TERMINATION CARD. SEE MIM
PARAGRAPH A2.10.

CE RESPONSE NECESSARY.
IS IT PULSING?
MDI=\$QUES
Y N

045
EXCHANGE THE DISKETTE UNIT
ATTACHMENT CARD.
NOW PROBE THE +INDEX (B11) PULSE ON
THE CABLE TERMINATION CARD. SEE MIM
PARAGRAPH A2.10.

CE RESPONSE NECESSARY.
IS IT PULSING?
MDI=\$QUES
Y N

C46
EXTERNAL
GO TO MAP 4830, ENTRY POINT A.
MDI=\$GCTO,TYPE=XTRNL,MAP=4830,EP=A

047
DISKETTE UNIT ATTACHMENT CARD WAS
BAD.
VERIFY THE REPAIR.
MDI=\$FIXT

048
DISKETTE UNIT DRIVE CONTROL CARD WAS
BAD.
VERIFY THE REPAIR.
MDI=\$FIXT

049
EXCHANGE THE CABLE WITH THE SHORT
CIRCUIT.
VERIFY THE REPAIR.
MDI=\$FIXT

050
EXCHANGE THE OPEN CABLE.
VERIFY THE REPAIR.
MDI=\$FIXT

051
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
VOL.1 SP140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO TO
DEVICE POWER SUPPLY MAP, 4880.
IF TEST STILL FAILS LCAD MAP 4830.
MDI=\$FIXT

052
(ENTRY POINT D)

CE RESPONSE NECESSARY.
IS A DISKETTE2 OR 2A INSERTED?
MDI=\$QUES
Y N

053
INSERT DISKETTE2 OR 2A AND START TEST AGAIN.
MDI=\$FIXT

054
EXTERNAL
GO TO MAP 4830, ENTRY POINT D.
MDI=\$GOTO,TYPE=XTRNL,MAP=4830,EP=D

A
1

DISKETTE UNIT ATTACHMENT
FILE INTERFACE MAP
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MAP 4813-7

055
(ENTRY POINT E)

OBSERVE THE PROGRAMMER CONSOLE DATA LAMPS.

CE RESPONSE NECESSARY.
IS BIT 4 ON AND DOES IT REMAIN CN?
MDI=\$QUXX,T4807
Y N

056
MAKE DEVICE NOT READY BY OPENING DEVICE DOOR

CE RESPONSE NECESSARY.

IS BIT 4 ON AND DOES IT REMAIN CN?
MDI=\$QUXX,T4807
Y N

057
CHECK THE VOLTAGES IN THE DEVICE ON THE
DRIVE CONTROL CARD (+24,+5,-5). SEE MLD
VOL.1 SF140. IF THE VOLTAGES ARE CORRECT,
EXCHANGE ATTACH CARD. IF THEY ARE BAD GO
TO DEVICE POWER SUPPLY MAP, 4880.
MDI=\$FIXT

058
INTERNAL
GO TO STEP 059, ENTRY POINT F.
MDI=\$GOTO,TYPE=INTRNL,EP=F

059
(ENTRY POINT F)

ATTEMPT TO MAKE DEVICE READY I.E., POWER ON
DEVICE, INSERT DISKETTE CORRECTLY, CLOSE DOOR,
CHECK CABLES, ETC.

CE RESPONSE NECESSARY.
IS BIT 4 OFF AND DOES IT REMAIN OFF?
MDI=\$QUXX,T4807
Y N

060
INTERNAL
GO TO PAGE 5, STEP 041, ENTRY POINT C.
MDI=\$GOTO,TYPE=INTRNL,EP=C

061
THIS IS THE END OF MAP 4813. THE READY/NOT
READY TEST IS GOOD.
FOR MORE TESTING EXECUTE MAP 4800.
MDI=\$FIXT

IF THE PROGRAMMER CONSOLE IS THE ACTIVE
CONSOLE:
ENTER '6' TO START THE LOOP, (B),6,(I),(I).
THE LOOP MAY BE DIFFICULT TO 'INTERRUPT' WHEN
YOU ENTER YOUR ANSWER.
(SEE DIAGNOSTIC SERVICE GUIDE, 07.01.00.)

IF THE PROGRAMMER CONSOLE IS THE ACTIVE
CONSOLE:
ENTER '6' TO START THE LOOP, (B),6,(I),(I).
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IF THE PROGRAMMER CONSOLE IS THE ACTIVE
CONSOLE:
ENTER '6' TO START THE LOOP, (B),6,(I),(I).
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YOU ENTER YOUR ANSWER.
(SEE DIAGNOSTIC SERVICE GUIDE, 07.01.00.)