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ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
4820	A	1	CC1

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
1	C06	4820	A
1	C08	4880	A
4	C33	4880	A

001
(ENTRY POINT A)

THIS IS AN MDI 'MANUAL MODE' MAP. (SEE DIAGNOSTIC SERVICE GUIDE C5.00.00). 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.

FAILED TO FEAD DESIRED TRACK ADDRESS BECAUSE OF A SEEK TO WRONG TRACK, OR READ ID ERROR OCCURRED AFTER A SEEK TO CORRECT TRACK.

CHECK HEAD/CARRIAGE ASSEMBLY ADJUSTMENT.
SEE MIM PARA. A3.9.1.

CE RESPONSE NECESSARY.
DID STEPPER MOTOR DETENT (LOCK IN) DURING THIS ADJUSTMENT?
MDI=\$QUES
Y N

002
GO TO STEP 007, ENTRY POINT B.
MDI=\$GOTO,TYPE=INTRNL,EP=B

003
CE RESPONSE NECESSARY.
IS HEAD ADJUSTMENT OK?
MDI=\$QUES
Y N

004
DO HEAD/CARRIAGE ADJUSTMENT.
SEE MIM PARA A3.9.2.
VERIFY THE REPAIR.
MDI=\$FIXT

005
CHECK CARRIAGE MOVEMENT BY SEEKING AT LEAST FOUR TRACKS IN EACH DIRECTION. ALSO DO A RECALIBRATE FROM TRACK FOUR SEVERAL TIMES.

CE RESPONSE NECESSARY.
IS THE CARRIAGE MOVEMENT OK?
MDI=\$QUXX,T4854,PIRG=8,FARM=4C/4C/4C
Y N

006
GO TO MAP 4820, ENTRY POINT A.
MDI=\$GOTO,TYPE=INTRNL,MAP=4820,EP=A

007
(ENTRY POINT B)
CHECK '+ 24 VDC' FROM THE SYSTEM.
SEE MLD VOL.1 SF140 FOR TEST POINT.

CE RESPONSE NECESSARY.
IS VOLTAGE CORRECT?
MDI=\$QUES
Y N

008
GO TO MAP 4880, ENTRY POINT A.
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.)

009
PROBE '+ ACCESS 0', '+ ACCESS 1', '+ ACCESS 2', AND '+ACCESS 3' ON DRIVE CONTROL CARD WHILE SEEKING 4 TRACKS.
SEE MLD VOL.1 SF140.

CE RESPONSE NECESSARY.
ARE ALL LINES PULSING?
MDI=\$QUXX,T4854,PLNG=8,PARM=4C/4C/4C
Y N

010
CHECK THE SAME LINES AGAIN EXCEPT AT CABLE TERMINATION CARD. (B05,D04,B06,D10) SEE MIM PARA. 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 ALL LINES PULSING?
MDI=\$QUXX,T4854,PLNG=8,PARM=4C/4C/4C
Y N

011
CHECK CABLES, THEN EXCHANGE THE ATTACHMENT CARD.
VERIFY THE REPAIR.
MDI=\$FIXT

012
CHECK DISKETTE UNIT CABLE ASSEMBLY FOR AN OPEN OR SHORT CIRCUIT OF THE FAILING LINE.

CE RESPONSE NECESSARY.
ARE THERE ANY?
MDI=\$QUES
Y N

013
CHECK DRIVE CONTROL CARD TAB CONNECTOR AND CONNECTOR BLOCK, THEN EXCHANGE DRIVE CONTROL CARD. SEE MIM PARA. A3.14.
VERIFY THE REPAIR.
MDI=\$FIXT

014
EXCHANGE DISKETTE UNIT CABLE ASSEMBLY.
VERIFY THE REPAIR.
MDI=\$FIXT

015
DO A RECALIBRATE TC TRACK 00.
CONTINUE ON 'YES' COLUMN
MDI=\$TUXX,T4852,01,00,EQ,PLNG=2,PARM=00
Y N

016
NO IS NOT VALID, GO TO NEXT STEP.
MDI=\$NVLD

017
USE THE MULTIMETER TO MEASURE VOLTAGE ON DISKETTE DRIVE CONTROL CARD TEST POINTS 'MC-0', 'MC-1', 'MC-2', AND 'MC-3'.
SEE MLD VOL.1 SF140.
CHECK EACH TEST POINT AND COMPARE RESULT TO TABLE AT RIGHT. DCWN LEVEL IS 0 TO .5 VDC AND UP LEVEL IS 21.6 TO 26.4 VDC.

CE RESPONSE NECESSARY.

IS THE RESULT THE SAME FOR TRACK 00 AS TABLE AT RIGHT?
MDI=\$QUES
Y N

018
GO TO PAGE 3, STEP 030, ENTRY POINT C.
MDI=\$GOTO,TYPE=INTRNL,EP=C

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

IF THE PROGRAMMER CCNSOLE 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.)

	TEST POINT			
	MC 0	MC 1	MC 2	MC 3
TRACK 00	DN	UP	UP	UP
TRACK 01	UP	DN	UP	UP
TRACK 02	UP	UP	DN	UP
TRACK 03	UP	UP	UP	DN

B SEEK ERROR MAP

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019
SEEK TO TRACK 01.
CONTINUE ON 'YES' COLUMN
MDI=$TUXX,T4852,01,00,EQ,PLNG=2,PARM=01
Y N

020
NO IS NOT VALID, GO TO NEXT STEP.
MDI=$NVLD

021
NOW MEASURE FOR TRACK 01

*CE RESPONSE NECESSARY.*
IS RESULT THE SAME FOR TRACK 01 AS TABLE AT
ABOVE RIGHT?
MDI=$QUES
Y N

022
GO TO STEP 030, ENTRY POINT C.
MDI=$GOTO,TYPE=INTRNL,EP=C

023
SEEK TO TRACK 02.
CONTINUE ON 'YES' COLUMN
MDI=$TUXX,T4852,01,00,EQ,PLNG=2,PARM=02
Y N

024
NO IS NOT VALID, GO TO NEXT STEP.
MDI=$NVLD

025
NOW MEASURE FOR TRACK 02.

*CE RESPONSE NECESSARY.*
IS THE RESULT THE SAME FOR TRACK 2 AS THE
TABLE AT ABOVE RIGHT?
MDI=$QUES
Y N

026
GO TO STEP 030, ENTRY POINT C.
MDI=$GOTO,TYPE=INTRNL,EP=C

027
SEEK TO TRACK 03.
CONTINUE ON 'YES' COLUMN
MDI=$TUXX,T4852,01,00,EQ,PLNG=2,PARM=03
Y N

028
NO IS NOT VALID, GO TO NEXT STEP.
MDI=$NVLD

029
NOW MEASURE FOR TRACK 03.

*CE RESPONSE NECESSARY.*
IS THE RESULT THE SAME FOR TRACK 3 AS TABLE AT
ABOVE RIGHT?
MDI=$QUES
Y N

030
(ENTRY POINT C)

POWER OFF
REMOVE DISKETTE DRIVE CONTROL CARD. MEASURE
RESISTANCE OF EACH STEPPER MOTOR COIL AT
PINS IN FEED THROUGH CONNECTOR. RESISTANCE
ACROSS EACH COIL TO COMMON SHOULD BE 115-141
OHMS. SEE MIM PARA. A2.8 MEASURE PINS
D03,B02,D04 AND D02 TO COMMON PIN B05.

*CE RESPONSE NECESSARY.*
IS RESISTANCE OF ALL FOUR COILS CORRECT?
MDI=$QUES
Y N

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4 4 4
C D E11JAN80 PN1635309
EC877041 PEC578757
MAP 4840-3

031
EXCHANGE STEPPER MOTOR.
SEE MIM PARA. A3.12.2
VERIFY THE REPAIR.
MDI=\$FIXT

032
POWER ON
CHECK '+ 5 VDC ' AND '- 5 VDC' INPUT
VOLTAGES TO DISKETTE DRIVE CONTROL CARD.
SEE MLD VOL.1 SF140 FCR TEST POINT(S).

CE RESPONSE NECESSARY.
ARE VOLTAGES CORRECT?
MDI=\$QUES
Y N

033
GO TO MAP 4880, ENTRY POINT A.
MDI=\$FIXT

034
EXCHANGE DISKETTE DRIVE CONTROL CARD.
SEE MIM PARA A3.14.
VERIFY THE REPAIR.
MDI=\$FIXT

035
REMOVE DISKETTE DRIVE CONTROL CARD. MEASURE
RESISTANCE OF EACH STEPPER MOTOR COIL AT PINS
IN FEED THROUGH CONNECTOR. RESISTANCE ACROSS
EACH COIL TO COMMON SHOULD BE 115-141 OHMS.
SEE MIM PARA. A2.8 MEASURE PINS D03, B02, D04
AND D02 TO COMMON PIN B05.

CE RESPONSE NECESSARY.
IS RESISTANCE OF ALL FOUR COILS CORRECT?
MDI=\$QUES
Y N

036
EXCHANGE STEPPER MOTOR.
SEE MIM PARA A3.12.2.
VERIFY THE REPAIR.
MDI=\$FIXT

037
CHECK THAT STEPPER PULLEY CLAMP IS TIGHT AND
PULLEY IS TIGHT ON STEPPER MOTOR SHAFT.
SEE MIM PARA A3.12.3 AND A3.12.4.

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

038
ADJUST AND TIGHTEN STEPPER PULLEY.
VERIFY THE REPAIR.
MDI=\$FIXT

039
VISUALLY CHECK STEPPER DRIVE BAND TRACKING.
SEE MIM PARA A3.12.6.

CE RESPONSE NECESSARY.
IS STEPPER DRIVE BAND TRACKING NEAR CENTER OF
IDLER PULLEY?
MDI=\$QUES
Y N

040
ADJUST AND TIGHTEN STEPPER DRIVE BAND OR
EXCHANGE IF BROKEN. SEE MIM PARA
A3.12.7, A3.12.8 AND A3.12.9.
VERIFY THE REPAIR.
MDI=\$FIXT

F
4

SEEK ERROR MAP

MAP 4840-5

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041
CHECK STEPPER DRIVE BAND TO SEE THAT IT IS
FREE OF DAMAGE.
SEE MIM PARA A3.12.6.

CE RESPONSE NECESSARY.
IS STEPPER DRIVE BAND FREE OF DAMAGE?

MDI=\$QUES

Y N

042
EXCHANGE BAND. SEE MIM PARA A3.12.9.
VERIFY THE REPAIR.
MDI=\$FIXT

043
REMOVE SCREWS THAT CLAMP DRIVE BAND TO
CARRIAGE.
SEE MIM PARA A3.12.6.
CHECK TO SEE THAT CARRIAGE WILL MOVE FREELY ON
IT'S GUIDE RCD AT CENTER AND OUTER LIMIT OF
CARRIAGE MOVEMENT.
DOES CARRIAGE MOVE FREELY?

CE RESPONSE NECESSARY.

MDI=\$QUES

Y N

044
CLEAN OR EXCHANGE AS NECESSARY.
VERIFY THE REPAIR.
MDI=\$FIXT

045
REMOVE DRIVE BAND FROM STEPPER PULLEY AND
IDLER.
SEE MIM PARA A3.12.8.

CE RESPONSE NECESSARY.

IS IDLER FREE OF BINDING?

MDI=\$QUES

Y N

046
EXCHANGE IDLER. SEE MIM PARA A3.12.10 AND
A3.12.11
VERIFY THE REPAIR.
MDI=\$FIXT

047
CE RESPONSE NECESSARY.
DOES STEPPER MOTOR BIND WITH PULLEY ATTACHED?

MDI=\$QUES

Y N

048
INSTALL A NEW DRIVE BAND AND ADJUST. SEE
MIM PARA. A3.12.7 THROUGH A3.12.9.
VERIFY THE REPAIR.
MDI=\$FIXT

049
CE RESPONSE NECESSARY.
IS THERE A GAP BETWEEN STEPPER PULLEY AND
CASTING?

SEE MIM PARA A3.12.1 FOR FIGURE OF WHERE TO
OBSERVE GAP.

MDI=\$QUES

Y N

050
ADJUST PULLEY SO THAT THERE IS A GAP AND THE
DRIVE BAND TRACKS CORRECTLY.
SEE MIM PARA A3.12.7.

VERIFY THE REPAIR.

MDI=\$FIXT

051
EXCHANGE STEPPER MOTOR.
SEE MIM PARA A3.12.1.

VERIFY THE REPAIR.

MDI=\$FIXT

11JAN80 PN1635309

EC877041 PEC578757

MAP 4840-5