

ENTRY POINTS

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FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
-----			
0170	D	2	014
0171	A	2	012
0174	A	2	012

EXIT POINTS

-----			
EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
-----			
2	013	0173	B
2	011	0174	A
2	015	4880	A

001  
 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.

THIS MAP HAS ASSUMED THAT A FAILURE OCCURRED IN ANOTHER MAP, AND, THEREFORE, WILL ALWAYS IDENTIFY A FAILING FIELD REPLACEABLE UNIT. USE ONLY WHEN INSTRUCTED TO DO SO BY ANOTHER MAP.

NO DATA RECEIVED OR DATA RECEIVED WITH CRC ERROR.

GO TO MAP 0170 ENTRY POINT A AND LOAD HAND ROUTINE 3. RETURN HERE AFTER LOADING IT. PRESS INSTRUCTION STEP AND PRESS RESET. NOW PRESS START FOUR TIMES. PRESS LSR. BITS 0,1,2 CONTAIN CC.

IS THE CC = 3?

Y N

002  
 IS THE CC = 2?

Y N

003  
 CHECK THE PROGRAM AND START AGAIN.

004  
 IS R7 = 80XX?(XX=DEVICE ADDRESS)

Y N

005  
 CHECK THE PROGRAM AND START AGAIN.

006  
 GO TO STEP 007, ENTRY POINT B.

007  
 (ENTRY POINT B)

PRESS START TWICE. THEN DISPLAY STORAGE LOCATION 0482.  
 ARE BOTH BITS 5 & 7 OFF (READ ERRORS)?

Y N

008  
 VISUALLY CHECK CARRIAGE MOVEMENT BY SEEKING ELECTRICALLY SEVERAL TRACKS IN EACH DIRECTION. TO DO THIS GO TO MAP 0170 ENTRY POINT A AND LOAD HAND ROUTINE 4. RETURN HERE AFTER LOADING IT. PRESS INSTRUCTION STEP AND PRESS RESET. NOW PRESS START THREE TIMES. PRESS LSR. BITS 0,1,2 CONTAIN THE CC.

IS THE CC=3?

Y N

009  
 CHECK THE PROGRAM AND START AGAIN.

010  
 PRESS INSTRUCTION STEP & PRESS START. VISUALLY CHECK MOVEMENT.  
 IS IT SEEKING CORRECTLY (SHOULD BE A SMOOTH SEEK.)?

Y N

PAGE 2 OF 5

011  
GO TO MAP 0174, ENTRY POINT A.

012  
(ENTRY POINT A)

PRESS STOP.

SEE DATA FROM STORAGE LOCATION 000C WHICH WAS  
RECORDED ON ENTRY TO DISKETTE UNIT DEVICE MAP  
0171.  
IS IT BETWEEN 5F76 AND 6934?

Y N

013  
GO TO MAP 0173, ENTRY POINT B.

014  
(ENTRY POINT D)

CHECK INPUT VOLTAGES '+ 5VDC', '- 5VDC', AND  
'+ 24VDC'.

SEE MAINTENANCE LOGIC DIAGRAM VOL.1 SF140.  
TOLERANCE IS + OR - 10%.  
ARE VOLTAGES CORRECT?

Y N

015  
CHECK CABLES. IF OK,  
GO TO MAP 4880, ENTRY POINT A.

016  
JUMPER '- HEAD LOAD' TEST POINT ON DISKETTE  
DRIVE CONTROL CARD TO GROUND. THIS SHOULD  
ACTIVATE SOLENOID AND CAUSE BAIL TO LOAD THE  
HEAD.

SEE MAINTENANCE LOGIC DIAGRAM VOL.1 SF140 FOR  
TEST POINT.  
DOES THE HEAD LOAD BAIL MOVE?

Y N

017  
PROBE '+ HEAD ENGAGE' AT DRIVE CONTROL CARD.  
IT SHOULD BE DOWN. SEE MAINTENANCE LOGIC  
DIAGRAM VOL.1 SF140.  
IS IT DOWN?

Y N

018

IS IT UP AT THE CABLE TERMINATION  
CARD(D05)? SEE PARA. A2.10 IN THE  
MAINTENANCE INFORMATION MANUAL.

Y N

019  
CHECK CABLE ASSEMBLY FOR CONTINUITY OF  
THE FAILING LINE.  
IS IT OPEN?

Y N

020  
EXCHANGE DRIVE CONTROL CARD  
SEE A3.14 IN THE MAINTENANCE  
INFORMATION MANUAL.  
VERIFY THE REPAIR.

021  
EXCHANGE CABLE ASSEMBLY  
VERIFY THE REPAIR.

022  
CHECK ATTACH SLT CABLE FOR CONTINUITY THEN  
EXCHANGE ATTACH CARD IF NO OPEN IS FOUND  
VERIFY THE REPAIR.

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  
MAINTENANCE LOGIC DIAGRAM VOL.1 SF140.

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023  
CHECK HEAD LOAD SOLENOID RESISTANCE.  
(J04 TO G05 ON SOLENOID CONNECTOR (A2) ON  
DRIVE CONTROL CARD)

SEE FIGURE ASSOCIATED WITH A3.10.1 IN THE  
MAINTENANCE INFORMATION MANUAL.  
RESISTANCE SHOULD MEASURE 66 TO 74 OHM AT  
NORMAL ROOM TEMPERATURE. IF SOLENOID HAS  
BEEN ACTIVATED AND CASE IS HOT, RESISTANCE  
CAN MEASURE UP TO 140 OHM.  
IS SOLENOID RESISTANCE CORRECT?

Y N

024  
CHECK CABLE AND TAPER PINS THEN REPAIR OR  
EXCHANGE AS NEEDED.  
VERIFY THE REPAIR.  
MEASURE RESISTANCE AT SOLENOID TERMINAL  
BLOCK. SEE FIGURE ASSOCIATED WITH A3.10.4  
IN THE MAINTENANCE INFORMATION MANUAL.  
RESISTANCE STILL NOT CORRECT?

Y N

025  
BAD PINS ON SOLENOID TERMINATION BLOCK,  
OR SOLENOID CABLE.  
THEN VERIFY REPAIR

026  
EXCHANGE SOLENOID, THEN VERIFY REPAIR

027  
REMOVE DISKETTE DRIVE COVER ASSEMBLY. SEE  
A3.4.1 IN IN THE MAINTENANCE INFORMATION  
MANUAL.  
OPERATE BAIL BY HAND.  
CHECK TO SEE THAT SOLENOID AND BAIL ARE NOT  
BINDING.  
CHECK TO SEE THAT BAIL RETURN SPRING IS  
RETURNING BAIL TO IT'S BACKSTOP.  
ARE THEY BINDING?

Y N

028  
EXCHANGE DISKETTE DRIVE CONTROL CARD AND  
CHECK FOR CORRECT OPERATION.

SEE A3.14 IN THE MAINTENANCE INFORMATION  
MANUAL.  
VERIFY THE REPAIR.

029  
REPAIR OR EXCHANGE THE BINDING PART.

SEE A3.10.3 IN THE MAINTENANCE INFORMATION  
MANUAL.  
VERIFY THE REPAIR.

030  
DO HEAD LOAD SOLENOID SERVICE CHECK.

SEE A3.10.1 IN THE MAINTENANCE INFORMATION  
MANUAL.  
IS SERVICE CHECK OK?

Y N

031  
ADJUST OR EXCHANGE AS NEEDED.  
VERIFY THE REPAIR.

032  
CHECK ADJUSTMENT OF HEAD/CARRIAGE ASSEMBLY.

SEE A3.9.1 IN THE MAINTENANCE INFORMATION  
MANUAL.  
IS ADJUSTMENT CORRECT?

Y N

033  
ADJUST HEAD/CARRIAGE ASSEMBLY.  
SEE A3.9.2 IN THE MAINTENANCE INFORMATION  
MANUAL.  
VERIFY THE REPAIR.

F  
3

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034  
IS A OSCILLOSCOPE AVAILABLE?  
Y N

035  
GO TO STEP 040, ENTRY POINT C.

036  
REMOVE VFO (VARIABLE FREQUENCY OSCILLATOR)  
CARD. SEE A3.7 IN THE MAINTENANCE INFORMATION  
MANUAL. PROBE +FILE DATA AT THE INPUT TO THE  
VFO (VARIABLE FREQUENCY OSCILLATOR) CARD (PIN  
B12). SEE MAINTENANCE INFORMATION MANUAL  
PARA. A2.7.  
IS IT PULSING?  
Y N

037  
CHECK CABLE FOR CONTINUITY OF + FILE DATA  
BETWEEN THE VFO (VARIABLE FREQUENCY  
OSCILLATOR) CARD AND THE DRIVE CONTROL CARD.  
IS THERE CONTINUITY BETWEEN THEM?  
Y N

038  
EXCHANGE CONNECTOR OR CABLE ASSEMBLY AS  
NECESSARY  
VERIFY THE REPAIR.

039  
GO TO STEP 040, ENTRY POINT C.

040  
(ENTRY POINT C)

EXCHANGE DISKETTE DRIVE CONTROL CARD. IF NO  
REPAIR EXCHANGE THE VFO (VARIABLE FREQUENCY  
OSCILLATOR) CARD. CHECK FOR CORRECT  
OPERATION. SEE MAINTENANCE INFORMATION MANUAL  
PARA. A3.7.1 AND A3.14.2.  
ANY MORE ERRORS?  
Y N

041  
DISKETTE DRIVE CONTROL CARD WAS BAD.  
VERIFY THE REPAIR.

042  
EXCHANGE HEAD/CARRIAGE ASSEMBLY AND CHECK FOR  
CORRECT OPERATION.

SEE A3.9.3 AND 3.9.4 IN THE MAINTENANCE  
INFORMATION MANUAL.

VERIFY THE REPAIR.  
ANY MORE ERRORS?  
Y N

043  
BAD HEAD/CARRIAGE ASSEMBLY.  
VERIFY THE REPAIR.

044  
EXCHANGE IPL DISKETTE UNIT ATTACHMENT CARD.  
VERIFY THE REPAIR.

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EC375475 PEC755551

MAP 0172-4

A  
1

DISKETTE UNIT READ ERROR MAP

MAP 0172-5

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045

GO TO MAP 0170 ENTRY POINT A. LOAD HAND ROUTINE 3 AND RETURN HERE. EXECUTE ROUTINE IN RUN MODE. PROBE '+HEAD 1 CT' WHILE ROUTINE 3 IS BEING EXECUTED. RECORD IF IT IS UP, DOWN, OR PULSING. IT SHOULD BE AT AN UP LEVEL. PROBE '+ SELECT HEAD 1' AND RECORD THE SAME. THIS LINE SHOULD BE AT AN UP LEVEL.

SEE MAINTENANCE LOGIC DIAGRAM VOL.1 SF140.

STOP ROUTINE 3. GO TO MAP 0170 ENTRY POINT A AND LOAD HAND ROUTINE 3A. RETURN HERE AFTER LOADING IT AND EXECUTE IN RUN MODE. PROBE 'HEAD 0 CT'. RECORD IF IT IS UP, DOWN, OR PULSING. THIS LINE SHOULD BE AT AN UP LEVEL. PROBE '+ SELECT HEAD 1' AND RECORD THE SAME. THIS LINE SHOULD BE AT A DOWN LEVEL. WERE BOTH 'HEAD 1 CT' (FROM ROUTINE 3) AND 'HEAD 0 CT' (FROM ROUTINE 3A) AT THE CORRECT LEVEL (UP)?

Y N

046

WAS '+ SELECT HEAD 1' AT THE CORRECT LEVEL FOR BOTH ROUTINE 3 AND ROUTINE 3A?

Y N

047

CHECK CABLES. THEN REPEAT ROUTINE 3 AND 3A. PROBE '+ SELECT HEAD 1' AT CABLE TERMINATION CARD (B04). SEE MAINTENANCE INFORMATION MANUAL PARA. A2.10.

IS IT CORRECT?

Y N

048

EXCHANGE DISKETTE UNIT CABLE OR CARD. VERIFY THE REPAIR.

049

DISKETTE UNIT CABLE ASSEMBLY PROBLEM.

050

EXCHANGE DISKETTE DRIVE CONTROL CARD AND CHECK FOR CORRECT OPERATION.

SEE A3.14 IN THE MAINTENANCE INFORMATION MANUAL. VERIFY THE REPAIR.

051

DO HEAD LOAD SOLENOID SERVICE CHECK.

SEE A3.10.1 IN THE MAINTENANCE INFORMATION MANUAL. IS SERVICE CHECK OK?

Y N

052

ADJUST OR EXCHANGE AS NEEDED. VERIFY THE REPAIR.

053

CHECK HEAD/CARRIAGE ASSEMBLY ADJUSTMENT. SEE A3.9.1 IN THE MAINTENANCE INFORMATION MANUAL. --- IF ALIGNMENT IS O.K. EXCHANGE VFO (VARIABLE FREQUENCY OSCILLATOR) CARD. SEE A3.7 IN THE MAINTENANCE INFORMATION MANUAL. -- IF NO REPAIR, EXCHANGE HEAD/CARRIAGE ASSEMBLY AND CHECK FOR CORRECT OPERATION.

SEE A3.9.3 AND 3.9.4 IN THE MAINTENANCE INFORMATION MANUAL.

VERIFY THE REPAIR.

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 MAINTENANCE LOGIC DIAGRAM VOL.1 SF140.

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MAP 0172-5