

ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
F000	A	1	001
F001	A	1	001
F002	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
1	004	F005	A
8	080	F007	A
8	084	F007	A
8	086	F007	A
9	090	F007	A
9	094	F007	A
9	095	F008	A
1	007	1470	A
2	015	1470	A
3	024	1470	A

001
(ENTRY POINT A)

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

IF THE 'LOOP STEP TO STEP' OPTION IS USED IN THIS MAP THE LOOP MUST INCLUDE STEP 001. ALL STEPS NEED STEP 001 FOR SETUP.

SET INTERRUPT POINTER FOR DCP
RESULTS=0?
MDI=\$TUXX,TF053,2,0000,EQ
Y N

002
SET INTERRUPT POINTER ERROR GO TO MAP 0070
MDI=\$FIXT

003
TEST FOR HIGH SPEED ADAPTER
RESULTS=0?
MDI=\$TUXX,TF041,2,0000,EQ,PLNG=4,PARM=0020
Y N

TEST FOR HIGH SPEED ADAPTER

004
HIGH SPEED ADAPTER, GO TO MAP F005
GO TO MAP F005, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,EP=A,MAP=F005

005
RESET DEVICE
RESULTS=4?
MDI=\$TUXX,TF051,2,0004,EQ
Y N

RESET DEVICE

006
CHECK VOLTAGE, SEE CHART

VOLTAGE	PIN
+5V	DC3, J03 P03, U03
GROUND	D08, J08 P08, U08

CE RESPONSE NECESSARY.

VOLTAGE GOOD?
MDI=\$QUES
Y N

007
VOLTAGE MISSING, GO TO POWER MAP
GO TO MAP 1470, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,EP=A,MAP=1470

008
RESET ERROR, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

1

009
 PREPARE TO LEVEL 0
 RESULTS=0?
 MDI=\$TUXX,TF052,2,0000,EQ,PLNG=4,PARM=0001
 Y N

PREPARE TO LEVEL 0

010
 OIO CC ERR, EXCHANGE CARD
 VERIFY THE REPAIR.
 MDI=\$FIXT

011
 TEST INTERRUPT
 RESULTS=0?
 MDI=\$TUXX,TF050,2,0000,EQ
 Y N

TEST INTERRUPT

012
 TEST FOR LOST INTERRUPT
 RESULTS=4?
 MDI=\$TUXX,TF049,2,0004,EQ
 Y N

TEST FOR LOST INTERRUPT

013
 INTERRUPT ERROR, EXCHANGE CARD
 VERIFY THE REPAIR.
 MDI=\$FIXT

014
 CHECK VOLTAGE, SEE CHART

VOLTAGE	PIN
+8.5V	G11
GROUND	D08, J08 P08, U08

CE RESPONSE NECESSARY.

VOLTAGE GOOD?
 MDI=\$QUES
 Y N

015
 VOLTAGE MISSING, GO TO POWER MAP
 GO TO MAP 1470, ENTRY POINT A.
 MDI=\$GOTO,TYPE=XTRNL,EP=A,MAP=1470

016
 NO INTERRUPT, EXCHANGE CARD
 VERIFY THE REPAIR.
 MDI=\$FIXT

READ STATUS

017
 READ STATUS
 RESULTS=0?
 MDI=\$TUXX,TF044,2,0000,EQ
 Y N

018
 CYCLE STEAL STATUS ERROR, EXCHANGE CARD
 VERIFY THE REPAIR.
 MDI=\$FIXT

INSTALL WRAP CONNECTOR

019
 (ENTRY POINT B)
 DISCONNECT THE MODEM END OF THE MODEM CABLE
 AND INSERT THE WRAP CONNECTOR PN 2704136, OR
 IF JAPANESE, PLACE SWITCH TO "WRAP" ON CABLE
 PN 2722052

CE RESPONSE NECESSARY.
 IS WRAP CONNECTOR INSTALLED?
 MDI=\$QUES
 Y N

020
 WRAP CONNECTOR NOT INSTALLED
 GO TO STEP 019, ENTRY POINT B.
 MDI=\$GOTO,TYPE=INTRNL,EP=B

3
 B

16JUL79 PN1635167

EC375465 PEC375135

MAP F003-2

021
 ENABLE TERMINAL
 RESULTS=0?
 MDI=\$TUXX,TF046,2,0000,EQ,PLNG=4,PARM=0003
 Y N

ENABLE TERMINAL

022
 TEST FOR LOST INTERRUPT
 RESULTS=4?
 MDI=\$TUXX,TF049,2,0004,EQ
 Y N

TEST FOR LOST INTERRUPT

023
 CHECK VOLTAGE, SEE CHART

VOLTAGE	PIN
+12V	B11
-12V	B06

CE RESPONSE NECESSARY.

VOLTAGE GOOD?
 MDI=\$QUES
 Y N

024
 VOLTAGE MISSING, GO TO POWER MAP
 GO TO MAP 1470, ENTRY POINT A.
 MDI=\$GOTO,TYPE=XTRNL,EP=A,MAP=1470

025
 ENABLE ERROR,GO CHECK MODEM CABLE
 GO TO PAGE 5, STEP 051,
 ENTRY POINT C.
 MDI=\$GOTO,TYPE=INTRNL,EP=C

026
 LOST INTERRUPT,EXCHANGE CARD
 VERIFY THE REPAIR.
 MDI=\$FIXT

027
 DIAGNOSTIC 2 COMMAND
 RESULTS=0?
 MDI=\$TUXX,TF040,2,0000,EQ
 Y N

028
 TEST FOR LOST INTERRUPT
 RESULTS=4?
 MDI=\$TUXX,TF049,2,0004,EQ
 Y N

TEST FOR LOST INTERRUPT

029
 TEST FOR GOOD DTR/DSR WRAP
 RESULTS=6?
 MDI=\$TUXX,TF049,2,0006,EQ
 Y N

TEST FOR GOOD DTR/DSR WRAP

030
 TEST FOR GOOD RTS/CTS WRAP
 RESULTS=7?
 MDI=\$TUXX,TF049,2,0007,EQ
 Y N

TEST FOR GOOD RTS/CTS WRAP

031
 TEST FOR GOOD DATA WRAP
 RESULTS=8?
 MDI=\$TUXX,TF049,2,0008,EQ
 Y N

TEST FOR GOOD DATA WRAP

032
TEST SET OF BUFFER SERVICE LATCH
RESULTS=9?
MDI=\$TUXX,TF049,2,0009,EQ
Y N

TEST SET OF BUFFER SERVICE LATCH

033
TEST SET OF TRANSMIT MODE LATCH
RESULTS=10?
MDI=\$TUXX,TF049,2,000A,EQ
Y N

TEST SET OF TRANSMIT MODE LATCH

034
TEST FOR BYTE MODE FAILURE
RESULTS=12?
MDI=\$TUXX,TF049,2,000C,EQ
Y N

TEST FOR BYTE MODE FAILURE

035
TEST FOR TRANSMIT/RECEIVE CLOCK FAILURE
RESULTS=13?
MDI=\$TUXX,TF049,2,000D,EQ
Y N

TEST FOR TRANSMIT/RECEIVE CLOCK FAILURE

036
TEST FOR INTERRUPT ERROR
RESULTS=2?
MDI=\$TUXX,TF049,2,0002,EQ
Y N

TEST FOR INTERRUPT ERROR

037
BIT 4 OF DIAGNOSTIC WORD ON WITH NO
CLOCK AVAILABLE, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

038
INTERRUPT ERROR ON DIAGNOSTIC COMMAND,
EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

039
CHECK MODEM CABLE TRANSMIT CLOCK AND
RECEIVE CLOCK LINES FOR CONTINUITY

FROM CARD	TO MODEM	LINE NAME
A06	15	XMIT CLOCK
B06	17	RECEIVE CLOCK
A08	7	GROUND

CE RESPONSE NECESSARY.

IS THE CABLE GOOD?
MDI=\$QUES
Y N

040
TRANSMIT CLOCK/RECEIVE CLOCK FAILURE,
REPAIR/EXCHANGE THE MODEM CABLE
VERIFY THE REPAIR.
MDI=\$FIXT

041
TRANSMIT CLOCK /RECEIVE CLOCK FAILURE,
EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

042
BYTE MODE FAILURE, OR DATA FAILURE,
EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

043
TRANSMIT MODE LATCH DID NOT SET, EXCHANGE
CARD
VERIFY THE REPAIR.
MDI=\$FIXT

044
BUFFER SERVICE LATCH DID NOT SET, EXCHANGE
CARD
VERIFY THE REPAIR.
MDI=\$FIXT

045
CHECK MODEM CABLE TRANSMIT DATA AND
RECEIVE DATA LINES FOR CONTINUITY

CE RESPONSE NECESSARY.

ARE BOTH LINES GOOD?
MDI=\$QUES
Y N

046
TRANSMIT DATA/RECEIVE DATA WRAP
FAILURE, REPAIR/EXCHANGE THE MODEM
CABLE
VERIFY THE REPAIR.
MDI=\$FIXT

047
TRANSMIT DATA/RECEIVE DATA WRAP FAILURE,
EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

048
CHECK MODEM CABLE RTS AND CTS LINES FOR
CONTINUITY

CE RESPONSE NECESSARY.

ARE BOTH LINES GOOD?
MDI=\$QUES
Y N

049
RTS/CTS WRAP FAILURE, REPAIR/EXCHANGE
MODEM CABLE
VERIFY THE REPAIR.
MDI=\$FIXT

050
RTS/CTS WRAP FAILURE, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

051
(ENTRY POINT C)
CHECK MODEM CABLE DTR AND DSR LINES FOR
CONTINUITY

CE RESPONSE NECESSARY.

ARE BOTH LINES GOOD?
MDI=\$QUES
Y N

052
DTR/DSR WRAP FAILURE, REPAIR/EXCHANGE
MODEM CABLE
VERIFY THE REPAIR.
MDI=\$FIXT

053
DTR/DSR WRAP FAILURE, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

054
LOST INTERRUPT, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

FROM CARD	TO MODEM	LINE NAME
A04	2	TRANSMIT DATA
B04	3	RECEIVE DATA
A08	7	GROUND

FROM CARD	TO MODEM	LINE NAME
A03	4	RTS
B03	5	CTS
A08	7	GROUND

FROM CARD	TO MODEM	LINE NAME
A01	20	DTR
B01	6	DSR
A08	7	GROUND

055
TEST FOR MULTIPOINT TRIBUTARY
RESULT=0?
MDI=\$TUXX,TF041,2,0000,EQ,PLNG=4,PARM=0006
Y N

TEST FOR MULTIPOINT

056
(ENTRY POINT D)
REMOVE MULTIPOINT TRIBUTARY JUMPER, SEE
CHART

(CONNECTOR LOCATION 'E60J40C')
. . INTERNAL CLOCK
. . M.P. TRIBUTARY
. . ANSWER TONE
. . RTS
. . DTR
. . NO RING
. . NOT USED
. . NOT USED
. . M.P. ADD BIT 7
. . M.P. ADD BIT 6
. . M.P. ADD BIT 5
. . M.P. ADD BIT 4
. . M.P. ADD BIT 3
. . M.P. ADD BIT 2
. . M.P. ADD BIT 1
. . M.P. ADD BIT 0

CE RESPONSE NECESSARY.

JUMPER REMOVED?
MDI=\$QUES
Y N

057
MULTIPOINT JUMPER INSTALLED
GO TO STEP 056,
ENTRY POINT D.
MDI=\$GOTO,TYPE=INTRNL,EP=D

058
MULTIPOINT JUMPER REMOVED
GO TO STEP 059, ENTRY POINT E.
MDI=\$GOTO,TYPE=INTRNL,EP=E

059
(ENTRY POINT E)
INSTALL OR VERIFY INTERNAL CLOCK JUMPER IF
JAPANESE WRAP CABLE IS NOT USED SEE CHART.
ENTER (Y) TO CONTINUE.

(CONNECTOR LOCATION 'E60J40C')
. . INTERNAL CLOCK
. . M.P. TRIBUTARY
. . ANSWER TONE
. . RTS
. . DTR
. . NO RING
. . NOT USED
. . NOT USED
. . M.P. ADD BIT 7
. . M.P. ADD BIT 6
. . M.P. ADD BIT 5
. . M.P. ADD BIT 4
. . M.P. ADD BIT 3
. . M.P. ADD BIT 2
. . M.P. ADD BIT 1
. . M.P. ADD BIT 0

CE RESPONSE NECESSARY.

JUMPER INSTALLED?
MDI=\$QUES
Y N

060
INTERNAL CLOCK JUMPER NOT INSTALLED
GO TO STEP 059, ENTRY POINT E.
MDI=\$GOTO,TYPE=INTRNL,EP=E

061
ENABLE TERMINAL
RESULTS=0?
MDI=\$TUXX,TF046,2,0000,EQ,PLNG=4,PARM=0003
Y N

ENABLE TERMINAL

062
ENABLE ERROR, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

063
TRANSMIT EBCDIC DATA
RESULT=0?
MDI=\$TUXX,TF042,2,0000,EQ,PLNG=9,
PARM=0003/0004
Y N

TRANSMIT EBCDIC

064
EBCDIC TRANSMIT ERROR, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

TRANSMIT EBCDIC,NO CHANGE OF DIRECTION

065
TRANSMIT EBCDIC DATA NO CHANGE OF DIRECTION
RESULT=0?
MDI=\$TUXX,TF042,2,0000,EQ,PLNG=9,
PARM=0002/0004
Y N

066
EBCDIC TRANSMIT ERROR, EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

067
TRANSMIT TRANSPARENT EBCDIC DATA
RESULT=0?
MDI=\$TUXX,TF042,2,0000,EQ,PLNG=9,
PARM=0003/8004
Y N

TRANSMIT TRANSPARENT EBCDIC DATA

068
TRANSPARENT EBCDIC TRANSMIT ERROR,EXCHANGE
CARD
VERIFY THE REPAIR.
MDI=\$FIXT

069
TRANSMIT TRANSPARENT EBCDIC DATA WITH NO
CHANGE OF DIRECTION
RESULTS=0?
MDI=\$TUXX,TF042,2,0000,EQ,PLNG=9,
PARM=0002/8004
Y N

TRANSMIT TRANSPARENT EBCDIC,NO CHANGE OF
DIRECTION

070
TRANSPARENT EBCDIC TRANSMIT ERROR,EXCHANGE
CARD
VERIFY THE REPAIR.
MDI=\$FIXT

071
ASCII TRANSMIT TEST
RESULT=0?
MDI=\$TUXX,TF042,2,0000,EQ,PLNG=9,
PARM=0003/0044
Y N

TRANSMIT ASCII

072
ASCII TRANSMIT ERROR,EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

073
ASCII TRANSMIT TEST WITH NO CHANGE OF
DIRECTION
RESULT=0?
MDI=\$TUXX,TF042,2,0000,EQ,PLNG=9,
PARM=0002/0044
Y N

TRANSMIT ASCII,NO CHANGE OF DIRECTION

074
ASCII TRANSMIT ERROR,EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

075
RESET DEVICE
RESULTS=4?
MDI=\$TUXX,TF051,2,0004,EQ
Y N

RESET DEVICE

076
RESET ERROR,EXCHANGE CARD
VERIFY THE REPAIR.
MDI=\$FIXT

077
(ENTRY POINT F)
CONNECT COMMUNICATIONS INDICATOR PANEL TO
CONTROLLER CARD AT TOP CARD CONNECTOR J2, AND
SET SWITCHES TO 11100000

CONNECT COMMUNICATIONS INDICATOR PANEL TO
CONTROLLER CARD AT TOP CARD CONNECTOR J2, AND
SET SWITCHES TO 11100000

CE RESPONSE NECESSARY.
PANEL CONNECTED, AND SWITCHES SET?
MDI=\$QUES
Y N

078

GO TO STEP 077, ENTRY POINT F.
MDI=\$GOTO,TYPE=INTRNL,EP=F

079
CHECK INDICATOR PANEL LAMPS

CE RESPONSE NECESSARY.
ARE ALL LAMPS ON?
MDI=\$QUES
Y N

080

LAMPS BAD
GO TO MAP F007, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=F007,EP=A

081
(ENTRY POINT G)
SET INDICATOR PANEL SWITCHES TO 10101010

SET INDICATOR SWITCHES FOR TEST

CE RESPONSE NECESSARY.
SWITCHES SET TO HEXADECIMAL AA?
MDI=\$QUES
Y N

082

GO TO STEP 081, ENTRY POINT G.
MDI=\$GOTO,TYPE=INTRNL,EP=G

083
CHECK INDICATOR PANEL LAMPS

CE RESPONSE NECESSARY.
ARE ALL LAMPS OFF?
MDI=\$QUES
Y N

084

LAMPS BAD
GO TO MAP F007, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=F007,EP=A

085
COMMUNICATIONS INDICATOR PANEL TEST
RESULTS=0?
MDI=\$TUXX,T F026,2,0000,EQ,PLNG=4,PARM=AA00
Y N

TEST SWITCHES = AA

086

GO TO MAP F007, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=F007,EP=A

087
(ENTRY POINT H)
SET INDICATOR PANEL SWITCHES TO 11111111

SET INDICATOR SWITCHES FOR TEST

CE RESPONSE NECESSARY.
SWITCHES SET TO HEXADECIMAL FF?
MDI=\$QUES
Y N

088

GO TO STEP 087, ENTRY POINT H.
MDI=\$GOTO,TYPE=INTRNL,EP=H

M
8

089
COMMUNICATIONS INDICATOR PANEL TEST
RESULTS=0?
MDI=\$TUXX,TF026,2,0000,EQ,PLNG=4,PARM=FF00
Y N

TEST INDICATOR PANEL SWITCHES= FF

090
GO TO MAP F007, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=F007,EP=A

091
(ENTRY POINT J)
SET INDICATOR PANEL SWITCHES TO 00000000

RELEASE SWITCH CONTROL OF DTR

CE RESPONSE NECESSARY.
SWITCHES 00?
MDI=\$QUES
Y N

092
GO TO STEP 091, ENTRY POINT J.
MDI=\$GOTO,TYPE=INTRNL,EP=J

093
COMMUNICATIONS INDICATOR PANEL TEST
RESULTS=0?
MDI=\$TUXX,TF026,2,0000,EQ,PLNG=4,PARM=0000
Y N

TEST SWITCHES ALL 00

094
GO TO MAP F007, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=F007,EP=A

095
GO TO MAP F008, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,MAP=F008,EP=A