

ENTRY POINTS

```

-----
FROM      | ENTER THIS MAP
-----+-----
MAP      | ENTRY  PAGE  STEP
NUMBER  | POINT  NUMBER NUMBER
-----+-----
0020    |   A      1     001
    
```

EXIT POINTS

```

-----
EXIT THIS MAP | TO
-----+-----
PAGE  STEP  | MAP  ENTRY
NUMBER NUMBER | NUMBER POINT
-----+-----
9     045  | EA01  A
7     030  | EA10  A
9     042  | EA10  A
6     027  | EA15  A
8     039  | EA15  A
6     028  | EA20  A
6     029  | EA20  A
7     032  | EA20  A
7     034  | EA20  A
9     040  | EA20  A
9     041  | EA20  A
2     002  | EA40  A
    
```

001
(ENTRY POINT A)

THIS IS AN MDI 'AUTO MODE' MAP (SEE DIAGNOSTIC SERVICE GUIDE 05.00.00).
 TO USE IT IN MANUAL MODE: LOAD AND EXECUTE THE MAP PROGRAM (BXXXX WHERE XXXX=MAP#).
 NO CE RESPONSE IS NEEDED. IF A FAILURE IS FOUND THE PROGRAM IDENTIFIES THE FAILING FIELD REPLACEMENT UNIT(S) OR LOADS ONE OR MORE 'MANUAL MODE' MAPS AND EXECUTES UNTIL A FIELD REPLACEMENT UNIT(S) CAN BE IDENTIFIED, OR UNTIL CE ACTION IS NEEDED. (SEE DIAGNOSTIC SERVICE GUIDE 05.01.00).

IF THE 'LOOP STEP TO STEP' OPTION (STEP 001 CONTINUES)

LOAD ENGINEERING CHANGES, INFORM MAP EA40 RETURN TO MAP EA00

(STEP 001 CONTINUED)
 IS USED IN THIS MAP THE LOOP MUST
 INCLUDE STEP 001. ALL STEPS NEED
 STEP 001 FOR SETUP.

MDI WILL ALWAYS TAKE THE 'NO' LEG
 TO LOAD ENGINEERING CHANGES INTO
 THE FPMLC CONTROL STORAGE
 MDI=\$TUXX,TEA04,2,000F,EQ,PLNG=4,
 PARM=EA00

Y N
 |
 | 002
 |
 | GO TO MAP EA40, ENTRY POINT A.
 | MDI=\$GOTO,TYPE=XTRNL,EP=A,
 | MAP=EA40
 |
 003
 (ENTRY POINT B)

CONNECT INTERRUPT POINTER FOR DCP
 RESULT=0?
 MDI=\$TUXX,TEA0F,2,0000,EQ

Y N
 |
 | 004
 | GO TO MAP 0070
 | MDI=\$FIXT
 |

005
 DEVICE RESET TO ATTACHED DEVICES
 RESULT= 0?
 MDI=\$TUXX,TEA01,2,0000,EQ

DEVICE RESET TO ATTACHED DEVICES

Y N
 |
 | 006
 | EXCHANGE CONTROLLER CARD
 | VERIFY THE REPAIR.
 | MDI=\$FIXT
 |
 |
 |
 |

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007 READ ID COMMAND TO ATTACHED DEVICES READ ID COMMAND TO ATTACHED DEVICES

ID= 2X16?
RESULT= 0?
MDI=\$TUXX,TEA02,2,0000,EQ,PLNG=4,
PARM=2016
Y N

| 008
| ENSURE THE ID JUMPERS ARE
| CORRECT, EXCHANGE CONTROLLER
| CARD
| VERIFY THE REPAIR.
| MDI=\$FIXT

009 PREPARE WITH I BIT OFF ALL ATTACHED DEVICES PREPARE THE FPMLC ATTACHMENT WITH THE I BIT OFF

RESULT= 0?
MDI=\$TUXX,TEA03,2,0000,EQ,PLNG=4,
PARM=0000
Y N

| 010
| EXCHANGE CONTROLLER CARD
| VERIFY THE REPAIR.
| MDI=\$FIXT

011 DEVICE RESET TO ATTACHED DEVICES DEVICE RESET TO ATTACHED DEVICES

RESULT= 0?
MDI=\$TUXX,TEA01,2,0000,EQ
Y N

| 012
| EXCHANGE CONTROLLER CARD
| VERIFY THE REPAIR.
| MDI=\$FIXT

B
3

FPMLC ENTRY MAP

MAP EA00-4

FEAT #2095/2096

PAGE 4 OF 9

|
|
|
|
|
|
013
READ 0
RESULT= 1?
MDI=\$TUXX,TEA08,2,0001,EQ,PLNG=4,
PARM=0000

Y N

|
| 014
| EXCHANGE CONTROLLER CARD
| VERIFY THE REPAIR.
| MDI=\$FIXT

|
015
READ STATUS WITH MODIFIER /000F
RESULT= 1?
MDI=\$TUXX,TEA09,2,0001,EQ

Y N

|
| 016
| EXCHANGE CONTROLLER CARD
| VERIFY THE REPAIR.
| MDI=\$FIXT

|
017
CONTROL WITH A MODIFIER OF 1
SHOULD RECEIVE INPUT/OUTPUT
CONDITION CODE OF 3.
RESULT= 1?
MDI=\$TUXX,TEA0C,2,0001,EQ,PLNG=4,
PARM=0001

Y N

|
| 018
| EXCHANGE CONTROLLER CARD
| VERIFY THE REPAIR.
| MDI=\$FIXT

5
C

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MAP EA00-4

C
4

FPMLC ENTRY MAP

MAP EA00-5

FEAT #2095/2096

PAGE 5 OF 9

019

DEVICE RESET TO ATTACHED DEVICES
RESULT= 0?

MDI=\$TUXX,TEA01,2,0000,EQ

Y N

DEVICE RESET TO ATTACHED DEVICES

020

EXCHANGE CONTROLLER CARD
VERIFY THE REPAIR.

MDI=\$FIXT

021

PREPARE LEVEL 2 ALL ATTACHED
DEVICES

RESULT= 0?

MDI=\$TUXX,TEA03,2,0000,EQ,PLNG=4,

PARM=0021

Y N

NO INTERRUPT SHOULD OCCUR

022

PREPARE LEVEL 2 ERROR, EXCHANGE
CONTROLLER CARD

VERIFY THE REPAIR.

MDI=\$FIXT

023

DIAGNOSTIC 1 TO ALL DEVICES

RESULT= 0?

MDI=\$TUXX,TEA1C,2,0000,EQ

Y N

DIAGNOSTIC 1 TEST EACH DEVICE
ADDRESS

024

DID ONE FPMLC LINE FAIL?

RESULT= 1?

MDI=\$TUXX,TEA00,2,0001,EQ

Y N

DIAGNOSTIC ERROR ON SINGLE LINE?

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7 7 6

D E F

MAP EA00-5

F
5

FPMLC ENTRY MAP

MAP EA00-6

FEAT #2095/2096

PAGE 6 OF 9

025

WAS THERE MORE THAN ONE ERROR ON
ONE CARD?

RESULT= 2?

MDI=\$TUXX,TEA00,2,0002,EQ

Y N

DIAGNOSTIC ERROR ON MORE THAN 1
BUT LESS THAN 4?

026

DID ALL LINES ON ONE CARD FAIL?

RESULT= 3?

MDI=\$TUXX,TEA00,2,0003,EQ

Y N

DIAGNOSTIC ERROR ON ALL LINES ON
ONE CARD?

027

MORE THAN 4 ERRORS

GO TO MAP EA15

GO TO MAP EA15,

ENTRY POINT A.

MDI=\$CALL,TYPE=XTRNL,

MAP=EA15,EP=A

028

ALL LINES FAILED

GO TO MAP EA20

GO TO MAP EA20, ENTRY POINT A.

MDI=\$CALL,TYPE=XTRNL,MAP=EA20,

EP=A

029

MORE THAN 1 LESS THAN 4 ERROR

GO TO MAP EA20

GO TO MAP EA20, ENTRY POINT A.

MDI=\$CALL,TYPE=XTRNL,MAP=EA20,

EP=A

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MAP EA00-6

D E
5 5

FPMLC ENTRY MAP

MAP EA00-7

FEAT #2095/2096

PAGE 7 OF 9

|
|
|
|
| 030
| SINGLE LINE ERROR
| GO TO MAP EA10
| GO TO MAP EA10, ENTRY POINT A.
| MDI=\$CALL,TYPE=XTRNL,MAP=EA10,
| EP=A
|

031
SET CONTROL/SET MODE

SET CONTROL 8 DATA 2 STOP NO
PARITY TO ALL ATTACHED DEVICES

RESULT= 0?
MDI=\$TUXX,TEA05,2,0000,EQ,
PLNG=19,PARM=0003/0007/001D/0700
Y N

|
| 032
| GO TO MAP EA20
| GO TO MAP EA20, ENTRY POINT A.
| MDI=\$CALL,TYPE=XTRNL,EP=A,
| MAP=EA20
|

033
SET CONTROL/SET MODE

SET MODE 8 DATA, 2 STOP, ODD TO
ALL ATTACHED DEVICES

RESULT= 0?
MDI=\$TUXX,TEA05,2,0000,EQ,
PLNG=19,PARM=0003/0007/00BC/0700
Y N

|
| 034
| GO TO MAP EA20
| GO TO MAP EA20, ENTRY POINT A.
| MDI=\$CALL,TYPE=XTRNL,EP=A,
| MAP=EA20
|

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8
G

MAP EA00-7

G
7

FPMLC ENTRY MAP

MAP EA00-8

FEAT #2095/2096

PAGE 8 OF 9

035

DTR ENABLE

TEST DTR ENABLE, THE DATA SET
READY BIT MAY OR MAY NOT BE ON IF
A SWITCHED LINE

RESULT= 0?

MDI=\$TUXX,TEA14,2,0000,EQ,PLNG=9,
PARM=0008/0333

Y N

036

DID ONE FPMLC LINE FAIL?

RESULT= 1?

MDI=\$TUXX,TEA00,2,0001,EQ

Y N

DTR ENABLE ERROR ON SINGLE LINE?

037

WAS THERE MORE THAN ONE ERROR
ON ONE CARD?

RESULT= 2?

MDI=\$TUXX,TEA00,2,0002,EQ

Y N

DTR ENABLE ERROR ON MORE THAN 1
BUT LESS THAN 4?

038

DID ALL LINES ON ONE CARD
FAIL?

RESULT= 3?

MDI=\$TUXX,TEA00,2,0003,EQ

Y N

DTR ENABLE ERROR ON ALL LINES ON
ONE CARD?

039

MORE THAN 4 ERRORS

GO TO MAP EA15

GO TO MAP EA15,

ENTRY POINT A.

MDI=\$CALL,TYPE=XTRNL,

MAP=EA15,EP=A

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9 9 9 9

H J K L

MAP EA00-8

H J K L FPMLC ENTRY MAP
8 8 8 8

MAP EA00-9

FEAT #2095/2096

PAGE 9 OF 9

040

ALL LINES FAILED
GO TO MAP EA20
GO TO MAP EA20,
ENTRY POINT A.
MDI=\$CALL,TYPE=XTRNL,
MAP=EA20,EP=A

041

MORE THAN 1 LESS THAN 4 ERROR
GO TO MAP EA20
GO TO MAP EA20,
ENTRY POINT A.
MDI=\$CALL,TYPE=XTRNL,
MAP=EA20,EP=A

042

SINGLE LINE ERROR
GO TO MAP EA10
GO TO MAP EA10, ENTRY POINT A.
MDI=\$CALL,TYPE=XTRNL,MAP=EA10,
EP=A

043

DTR ENABLE WITH TIME-OUT BIT SET
RESULT= 0?
MDI=\$TUXX,TEA14,2,0000,EQ,PLNG=9,
PARM=0009/0333

Y N

044

DATA TERMINAL READY WITH
TIME-OUT ERROR
EXCHANGE CONTROLLER CARD
VERIFY THE REPAIR.
MDI=\$FIXT

045

GO TO MAP EA01, ENTRY POINT A.
MDI=\$GOTO,TYPE=XTRNL,EP=A,
MAP=EA01

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MAP EA00-9