ENTRY POINTS

FROM | ENTER THIS MAP

MAP | ENTRY   PAGE   STEP
NUMBER | POINT   NUMBER   NUMBER

0000 | A   1   001
0000 | B   1   002
0000 | ES   6   048
0000 | LP   3   021

001
(ENTRY POINT A)

THIS IS THE ENTRY POINT FOR PROCESSING
UNIT OR STORAGE REPLACEMENT.

IF YOU WERE SENT HERE TO EXCHANGE A
STORAGE FIELD REPLACEMENT UNIT, ANSWER THE
QUESTION 'YES'.

IF YOU WERE SENT HERE WITH A POSSIBLE
STORAGE PROBLEM, ANSWER THE QUESTION
'YES'.

IF YOU SUSPECT A POSSIBLE STORAGE PROBLEM,
ANSWER THE QUESTION 'YES'.

WERE YOU SENT HERE TO EXCHANGE A STORAGE
FIELD REPLACEMENT UNIT?
Y N
| |
| 002
| (ENTRY POINT B)
|
| - SEE IF THE PROCESSING UNIT CARDS HAVE
| BEEN REPLACED PREVIOUSLY.
|
| HAVE THE PROCESSING UNIT CARDS BEEN
| REPLACED?
| Y N
| | |
| | 003
| | - POWER OFF THE SYSTEM.
| | - REMOVE THE ROS CARD.
| | - INSTALL A NEW ROS CARD.
| | - POWER ON THE SYSTEM.
| |
| | RUN THE SYSTEM TO WHERE THE ORIGINAL
| | FAILURE OCCURS.
| |
| | DID THE SAME FAILURE OCCUR?
| | Y N
| | | |
| | | 004
| | | THE ROS CARD IS BAD.
| | | VERIFY THE REPAIR.
| | |
| | 005
| | - POWER OFF THE SYSTEM.
| | - REMOVE THE DATA CARD.
| | - INSTALL A NEW DATA CARD.
| | - POWER ON THE SYSTEM.
| |
| | RUN THE SYSTEM TO WHERE THE ORIGINAL
| | FAILURE OCCURS.
| |
| | DID THE SAME FAILURE OCCUR?
| | Y N
| | | |
| | | 006
| | | THE DATA CARD IS BAD.
| | | VERIFY THE REPAIR.

EXIT POINTS

EXIT THIS MAP | TO

PAGE   STEP | MAP   ENTRY
NUMBER   NUMBER | NUMBER   POINT
----
  2   009 | 0070   A

DIAGNOSTIC LIST AND DESCRIPTION

02500
    1. PARITY CHECK
    2. MAIN STORAGE TEST
    3. PROCESSING UNIT BASIC
    4. DIAGNOSTIC OPERATION TESTS
02501
    1. REGISTER READ AND CHECK
    2. PROCESSING UNIT BASIC
02502
    1. PROCESSING UNIT BASIC
02503
    1. PROCESSING UNIT BASIC
    2. PROGRAM CHECK
    3. SUPERVISOR CALL
02504
    1. NOT VALID PROCESSING UNIT
       FUNCTIONS TESTED.
    2. PROGRAM LEVEL SETTING
    3. TRACE
02505
    1. TRANSLATOR INSTRUCTIONS
    2. SOFT EXCEPTION TRAP
02506
    1. PROTECT KEYS
    2. OUTER STORAGE

2 2 2
A B C

007
- POWER OFF THE SYSTEM.
- REMOVE THE ADDRESS CARD.
- INSTALL A NEW ADDRESS CARD.
- POWER ON THE SYSTEM.

RUN THE SYSTEM TO WHERE THE ORIGINAL
FAILURE OCCURS.

DID THE SAME FAILURE OCCUR?
Y N

  008
  THE ADDRESS CARD IS BAD.
  VERIFY THE REPAIR.

 009
 GO TO MAP 0070, ENTRY POINT A.

010
THE STORAGE MAY BE SUSPECT.
GO TO PAGE 1, STEP 001,
ENTRY POINT A.

011
- SEE IF MORE THAN ONE (1) STORAGE CARD IS
  INSTALLED.

IS THERE MORE THAN ONE (1) STORAGE CARD
INSTALLED?
Y N

  012
  - POWER OFF THE SYSTEM.
  - REMOVE THE STORAGE CARD.
  - EXCHANGE THE STORAGE CARD.
  - POWER ON THE SYSTEM.

  RUN THE SYSTEM TO WHERE THE ORIGINAL
  FAILURE OCCURS.

  DID THE SAME FAILURE OCCUR?
  Y N

    013
    VERIFY THE REPAIR.

   014
   GO TO PAGE 1, STEP 002,
   ENTRY POINT B.

015
THERE IS MORE THAN ONE (1) STORAGE CARD
INSTALLED.

- SEE IF THE FAILURE WAS AT POWER ON TIME.

DID THE FAILURE SHOW AT POWER ON TIME?
Y N

  016
  - SEE IF THE FAILURE HAS A FAILING
    ADDRESS.

  WAS A FAILING ADDRESS GIVEN?
  Y N

    017
    - SEE IF THE FAILURE HAS A BLOCK
      GIVEN.

    WAS A BLOCK GIVEN?
    Y N

      018
      - SEE IF THE FAILURE WAS IN A 2XXX
        DIAGNOSTIC PROGRAM.

      WAS THE FAILURE AS NOTED ABOVE?
      Y N

6 6 6 5 3
D E F G H

019
(ENTRY POINT ST)

THE FAILURE IS IN SOME DIAGNOSTIC.
SEE THE CHART ------>

- POWER OFF THE SYSTEM.
- SWAP THE STORAGE CARDS SO THAT NO STORAGE CARD IS IN ITS ORIGINAL POSITION, AS SEEN IN THE CHART.

THIS IS DONE TO CHANGE THE FAILURE INDICATION.

- POWER ON THE SYSTEM.
- RUN THE SYSTEM TO WHERE THE ORIGINAL FAILURE OCCURS.

DID THE SAME FAILURE OCCUR?
Y N

    020
    THERE IS A POSSSIBLE STORAGE PROBLEM, WITH A NEW FAILURE INDICATION. USE THIS NEW FAILURE INDICATION IN THE FOLLOWING STEPS.

    - POWER OFF THE SYSTEM.
    - UNSEAT ALL STORAGE CARDS BUT THE STORAGE CARD IN THE FIRST POSITION. (THE STORAGE CARD SEATED NEXT TO THE PROCESSING UNIT IS THE 'FIRST POSITION' STORAGE CARD.)

    - POWER ON THE SYSTEM.
    - RUN THE SYSTEM TO WHERE THE FAILURE OCCURS.

    DID THE SAME FAILURE OCCUR?
    Y N

        021
        (ENTRY POINT LP)

        - POWER OFF THE SYSTEM.
        - LEAVE THE STORAGE CARD(S) INSTALLED.
        - SELECT ONE OF THE REMOVED STORAGE CARD(S) AND SEAT IT IN THE NEXT OPEN POSITION.
        - POWER ON THE SYSTEM.
        - RUN THE SYSTEM TO WHERE THE FAILURE OCCURS.

        DID THE SAME FAILURE OCCUR?
        Y N

            022
            - SEE IF THERE IS A STORAGE CARD NOT INSTALLED.

            IS THERE A STORAGE CARD NOT INSTALLED?
            Y N

                023
                ALL STORAGE CARDS ARE INSTALLED.

                IS THE PROBLEM REPAIRED?
                Y N

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4 4 4 4 4 4
J K L M N P
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+---------------------------------+
| IF FOUR CARDS ARE INSTALLED: |
1 - 2 - 3 - 4
SWAP THEM AS FOLLOWS:
2 - 1 - 4 - 3
DO THE SAME FOR TWO (2) OR
THREE (3) CARDS INSTALLED.
+---------------------------------+

TO ISOLATE TO THE BAD STORAGE FIELD REPLACEMENT UNIT:

SEE THE STORAGE CARD(S) INSTALLED ON THE SYSTEM.
SEE IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE, THEY CAN BE USED TO EXCHANGE WITH A SUSPECT STORAGE CARD.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE NOT THE SAME TYPE, A STORAGE CARD OF THE SAME TYPE AS THE SUSPECT STORAGE CARD MUST BE OBTAINED.

024
GO TO PAGE 6, STEP 048,
ENTRY POINT ES.

025
VERIFY THE REPAIR.

026
GO TO PAGE 3, STEP 021,
ENTRY POINT LP.

027
- EXCHANGE   THE   STORAGE   CARD   LAST
  INSTALLED.
IF NO REPAIR,
GO TO PAGE 6, STEP 048,
ENTRY POINT ES.

028
- EXCHANGE THE STORAGE CARD IN THE FIRST
  POSITION.
IF NO REPAIR,
GO TO PAGE 6, STEP 048,
ENTRY POINT ES.

029
GO TO PAGE 6, STEP 048,
ENTRY POINT ES.

030
- POWER OFF THE SYSTEM.
- UNSEAT ALL STORAGE CARDS BUT THE STORAGE
  CARD IN THE FIRST POSITION.

(THE STORAGE CARD SEATED NEXT TO THE
PROCESSING UNIT IS THE 'FIRST POSITION'
STORAGE CARD.)

- POWER ON THE SYSTEM.
- RUN THE SYSTEM TO WHERE THE FAILURE
  OCCURS.

DID THE SAME FAILURE OCCUR?
Y N

    031
    (ENTRY POINT PL)

    - POWER OFF THE SYSTEM.
    - REMOVE THE STORAGE CARD INSTALLED.
    - SET IT TO ONE SIDE.
    - SELECT ONE OF THE REMOVED STORAGE
      CARD(S) AND SEAT IT IN THE FIRST CARD
      POSITION.
    - POWER ON THE SYSTEM.
    - RUN THE SYSTEM TO WHERE THE FAILURE
      OCCURS.

    DID THE SAME FAILURE OCCUR?
    Y N

        032
        - SEE IF THERE IS A STORAGE CARD NOT
          TESTED.

        IS THERE A STORAGE CARD NOT TESTED?
        Y N

            033
            ALL STORAGE CARDS ARE TESTED.

            IS THE PROBLEM REPAIRED?
            Y N

                034
                - SEAT ALL STORAGE CARDS.
                REMEMBER   TO   CORRECT   THE
                CONFIGURATION TABLE   AFTER   THE
                REPAIR IS COMPLETE.
                GO TO PAGE 6, STEP 048,
                ENTRY POINT ES.

            035
            REMEMBER   TO   CORRECT   THE
            CONFIGURATION TABLE AFTER THE REPAIR
            IS COMPLETE.
            VERIFY THE REPAIR.

        036
        GO TO STEP 031,
        ENTRY POINT PL.

    037
    - EXCHANGE   THE   STORAGE   CARD   LAST
      INSTALLED.
    IF NO REPAIR,
    GO TO PAGE 6, STEP 048,
    ENTRY POINT ES.

038
- POWER OFF THE SYSTEM.
- REMOVE THE STORAGE CARD INSTALLED.
- SET IT TO ONE SIDE.
- SELECT   ONE   OF THE REMOVED STORAGE
  CARD(S) AND SEAT IT IN THE FIRST CARD
  POSITION.
- POWER ON THE SYSTEM.
- RUN THE SYSTEM TO WHERE THE FAILURE
  OCCURS.

DID THE SAME FAILURE OCCUR?
Y N

    039
    THE FIRST STORAGE CARD THAT WAS REMOVED
    IS BAD.
    REMEMBER TO CORRECT THE CONFIGURATION
    TABLE AFTER THE REPAIR IS COMPLETE.
    VERIFY THE REPAIR.

040
GO TO PAGE 6, STEP 048,
ENTRY POINT ES.

THE CONFIGURATION TABLE IS NOT CORRECT,
BECAUSE THE STORAGE SIZE WAS CHANGED BY
YOU WHEN THE CARD(S) WERE UNSEATED OR
REMOVED.
TO CONTINUE, THE TABLE MUST BE CORRECT.
CHANGE THE STORAGE ENTRY TO THE SIZE OF
THE ONE CARD SEATED OR INSTALLED.

REMEMBER TO CORRECT THE   CONFIGURATION
TABLE AFTER THE REPAIR IS COMPLETE.

041
ADD 1 TO THE BLOCK NUMBER GIVEN.

SEE THE NOTE ------->

- POWER OFF THE SYSTEM.
- REMOVE THE STORAGE CARD FOR THE BLOCK+1 GIVEN.
- EXCHANGE THE STORAGE CARD FOR THE BLOCK+1 GIVEN.
- POWER ON THE SYSTEM.

RUN THE SYSTEM TO WHERE THE ORIGINAL FAILURE OCCURS.

DID THE SAME FAILURE OCCUR?
Y N

  042
  EXCHANGE THE STORAGE CARD REMOVED FROM THE BLOCK+1 POSITION.
  VERIFY THE REPAIR.

043
GO TO STEP 048,
ENTRY POINT ES.

044
SEE THE NOTE ------->

- POWER OFF THE SYSTEM.
- REMOVE THE STORAGE CARD FOR THE ADDRESS GIVEN.
- EXCHANGE THE STORAGE CARD FOR THE ADDRESS GIVEN.
- POWER ON THE SYSTEM.

RUN THE SYSTEM TO WHERE THE ORIGINAL FAILURE OCCURS.

DID THE SAME FAILURE OCCUR?
Y N

  045
  EXCHANGE THE STORAGE CARD REMOVED FOR THE ADDRESS GIVEN.
  VERIFY THE REPAIR.

046
GO TO STEP 048,
ENTRY POINT ES.

047
- POWER OFF THE SYSTEM.
- REMOVE THE STORAGE CARD FROM THE FIRST POSITION.
- SELECT ONE OF THE OTHER STORAGE CARD(S) AND MOVE IT TO THE FIRST POSITION.
- POWER ON THE SYSTEM.

DID THE SYSTEM 'POWER ON' CORRECTLY?
Y N

  048
  (ENTRY POINT ES)

  SEE IF A RELOCATION TRANSLATOR CARD IS INSTALLED.

  IS A RELOCATION TRANSLATOR CARD INSTALLED?
  Y N

    049
    SEE IF AN ADDRESS EXPANSION CARD IS INSTALLED.

    IS AN ADDRESS EXPANSION CARD INSTALLED?
    Y N

      050
      GO TO PAGE 1, STEP 002,
      ENTRY POINT B.

7 7 7
Q R S

TO ISOLATE TO THE BAD STORAGE FIELD REPLACEMENT UNIT:

SEE THE STORAGE CARD(S) INSTALLED ON THE SYSTEM.
SEE IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE, THEY CAN BE USED TO EXCHANGE WITH A SUSPECT STORAGE CARD.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE NOT THE SAME TYPE, A STORAGE CARD OF THE SAME TYPE AS THE SUSPECT STORAGE CARD MUST BE OBTAINED.

TO ISOLATE TO THE BAD STORAGE FIELD REPLACEMENT UNIT:

SEE THE STORAGE CARD(S) INSTALLED ON THE SYSTEM.
SEE IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE, THEY CAN BE USED TO EXCHANGE WITH A SUSPECT STORAGE CARD.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE NOT THE SAME TYPE, A STORAGE CARD OF THE SAME TYPE AS THE SUSPECT STORAGE CARD MUST BE OBTAINED.

TO ISOLATE TO THE BAD STORAGE FIELD REPLACEMENT UNIT:

SEE THE STORAGE CARD(S) INSTALLED ON THE SYSTEM.
SEE IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE THE SAME TYPE, THEY CAN BE USED TO EXCHANGE WITH A SUSPECT STORAGE CARD.
IF THE STORAGE CARD(S) INSTALLED ON THE SYSTEM ARE NOT THE SAME TYPE, A STORAGE CARD OF THE SAME TYPE AS THE SUSPECT STORAGE CARD MUST BE OBTAINED.

051
OBTAIN A NEW ADDRESS EXPANSION CARD.

- POWER OFF THE SYSTEM.
- REMOVE THE ADDRESS EXPANSION CARD
  NOW INSTALLED.
- INSTALL THE NEW ADDRESS EXPANSION
  CARD.
- POWER ON THE SYSTEM.

DID THE SYSTEM WORK CORRECTLY?
Y N

  052
  GO TO PAGE 1, STEP 002,
  ENTRY POINT B.

053
THE REMOVED ADDRESS EXPANSION CARD IS
BAD.
VERIFY THE REPAIR.

054
OBTAIN A NEW RELOCATION TRANSLATOR CARD.

- POWER OFF THE SYSTEM.
- REMOVE THE RELOCATION TRANSLATOR CARD
  NOW INSTALLED.
- INSTALL THE NEW RELOCATION TRANSLATOR
  CARD.
- POWER ON THE SYSTEM.

DID THE SYSTEM WORK CORRECTLY?
Y N

  055
  GO TO PAGE 1, STEP 002,
  ENTRY POINT B.

056
THE REMOVED RELOCATION TRANSLATOR CARD
IS BAD.
VERIFY THE REPAIR.

057
EXCHANGE THE CARD THAT WAS REMOVED FROM
THE FIRST POSITION.
VERIFY THE REPAIR.