SERVICE NOTE

SUPERSEDES

E1405A C-Size VXI Command Module E1405B C-Size VXI Command Module

Serial Numbers: 3002A00101 through 3126A01556

Modification to allow an E1405A/B to work with the HP 75000 Series 90 Modular SONET/SDH Analyzer VXI Systems.

Situation:

E1405A/B Command Modules within the listed serial number range, and having a motherboard with an ERC less than 3217, are incompatible with the HP Series 90 Systems without modification. Series 90 Systems may include the following:

Bundled Systems:

E1650A, E1652A

Modules:

E1661/2/3A, E1671/2/3/4A, E1679A, E1681/2/3/4A.

Software:

E1651A

A modification of the E1405A/B Command Module will allow it to work with the Series 90 Systems. The modification described in this service note should only be performed on E1405A/B Command Modules that contain motherboards (part number E1405-66501) that are Revision C or greater and that have an Engineering Revision Code (ERC) of less than 3217. Motherboards with an ERC equal to 3217 or greater have been modified at the factory.

Continued

DATE:12 May 1992

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	PERFORMANCE ENHANCEMENT SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE☐ ON-SITE☐ HP LOCATION	AVAILABLE UNTIL: End of Support Life
AUTHOR: KD	ENTITY: 0900	ADDITIONAL INFORMATION: Reference PCO 09-28748

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1 of 4

Revision A or B motherboards may not be modifiable. Contact "VXI Product Support" at Hewlett-Packard Company, (303) 679-2423, for instructions on modifying revision A or B motherboards.

Note

An ERC is in the form YYWW and is usually found on a small white label on the motherboard.

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Where:
YY = YEAR-1960 (Example: If YY=32, the year is 1992
[1992-1960=32])
WW = WEEK (Example: If WW=17, it indicates the 17th
week of YY)
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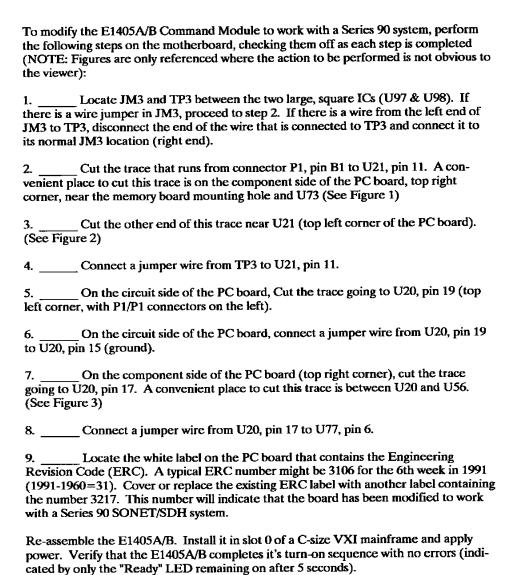
This modification will not affect normal operations of the E1405A/B Command Module with any other HP VXI module. The E1405A/B will also continue to work with any other vendor's VXI products as long as they are compatible with the VXI Specification, Revision 1.3 or greater.

Action:

To disassemble the E1405A/B Command Module in preparation for modification, first read, and then perform, all of the following steps:

- 1. At a static-safe workstation, remove the top cover/shield from the E1405A/B (8 screws, TORX size 10) following the instructions on the cover. Front panel hardware must be loosened first before the cover can be removed. The battery is attached to the cover, so be careful to disconnect the battery cable from the motherboard before completely separating the top cover.
- 2. Remove the remaining two screws holding the piggy-back memory board to the motherboard. Remove the memory board and set it aside, since it will not be modified.
- 3. Orient the motherboard with the P1/P2 connectors to the right.
- 4. Inspect the motherboard to determine both the ERC and the revision letter of the PC board. The ERC is on a white label in the middle of the PC board near the front panel. The PC board revision letter is printed on the PC board near the board part number (E1405-66501), located near the middle of the bottom edge of the PC board.
- 5. If the PC board revision letter is A or B, contact the factory for further instructions as noted at the beginning of this service note. If the ERC is 3217 or greater, the PC board has already been modified for use with an HP Series 90 System.
- 6. If you are going to continue with the modification, unscrew the four memory board standoffs and remove the bottom shield from the motherboard.

Service Note E1405A/B-01 Page 3



Send the "*TST?" command to the E1405A/B SYSTEM instrument and read back the self-test results. The results should be 0.

Here is a sample BASIC program that can be sent over HP-IB to the E1405A/B to perform the self-test:

OUTPUT 70900;"*TST?" ENTER 70900;A PRINT A END

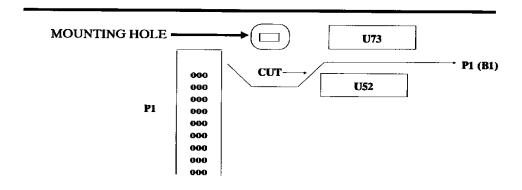


Figure 1

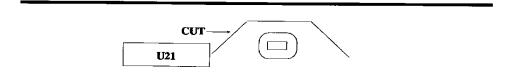


Figure 2

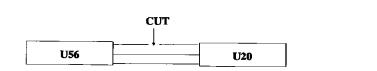


Figure 3