

## S E R V I C E N O T E

SUPERSEDES: E3101A-04A

**4071A Semiconductor Parametric Tester**

Serial Numbers: JP10D00101 / JP10D00197

**Optical communication quality improvement**

To Be Performed By: Agilent-Qualified Personnel

**Parts Required:**

P/N	Description	Quantity
E3120-69551	TH CPU BOARD(*)	1
E3160-66542	OPTICAL I/F BOARD	1
E3120-61603	OPT CABLE;A PAIR	1

**Situation:**

The following symptoms may be caused by the bad quality of optical communication interface hardware:

- The following message is displayed on the CONSOLE window or root screen:
  - Slot(x):Fifo(x):Wrong data sequence. wrong(xx) expect(0)
- A warning message telling you the time out occurrence is displayed.
- X windows hangs up.
- CRC error may be occurred when the testhead firmware is updated.

*Continued*

DATE: February 1999

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 1.5 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input checked="" type="checkbox"/> ON-SITE <input type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AUTHOR: ET	ENTITY: 3301	AGILENT RESPONSIBLE UNTIL: February 2001	
ADDITIONAL INFORMATION: Revision bar (   ) shows changes from previous service note			

Since the communication program has re-try capability, a few miss-communications do not result in the error. But too many miss-communications results in these errors.

**Solution / Action:**

CSE visits at the customer and replaces the old OPTICAL I/F BOARD (E3160-66502 or E3160-66512), TH CPU Board (E3120-66501 or E3120-69501), and E3120-61602 OPT CABLE. The necessary parts can be gotten from GSL.

To verify the optical communication quality, you execute the following command:

```
$ ./optcrc      # [loop number]
```

slot#: Slot number where the optical I/F card is installed on the CPU.

loop number: the number how many times the program check the optical communication.

The "optcrc" can be obtained from the HSTD's FTP server as follows:

```
agilent.yidmk.jp.n.agilent.com (15.74.51.51) ~ftp/dist/dc_para/4070/utilities/optif_check/.....
```

After the implementation of this service note, you must discard the old parts except the E3120-66501. The E3120-66501 must be sent to GSL as the exchange part return

If you have any question, please send your message to "HSTD, Svc-Support".