

S E R V I C E N O T E

SUPERSEDES: None

**37724A SDH Test Set**

**Serial Numbers:** SEE SITUATION BELOW.

**Modification corrects 155 Mb/s Clock Wander**

**To Be Performed By:** Agilent-Qualified Personnel

**Parts Required:**

| Part No.  | Description      | Ref. Designator  |
|-----------|------------------|--|
| 0160-0128 | Capacitor, 2.2uF | 37724-60008 Std Clock Generator Assy<br>37724-60003 Freq Offset Assy<br>37724-60073 Freq Offset/Clock Assy |

**Situation:**

A limited number of instruments have shipped with capacitors loaded on the above assemblies which cause higher than acceptable levels of intrinsic wander on the 155 Mb/s clock (can be 3UI instead of a typical 0.3UI). The capacitor supplier was changed before the extent of the wander was realized (this is not a specific parameter) and so there is no serial number range to quote. (This will only be found in serial numbers less than or equal to 3305U.)

*Continued*

DATE: August 1994

ADMINISTRATIVE INFORMATION

|                                 |   |  |  |
|---------------------------------|---|--|--|
| SERVICE NOTE CLASSIFICATION:    |   |  |  |
| <b>MODIFICATION RECOMMENDED</b> |   |  |  |
| ACTION CATEGORY:                | <input type="checkbox"/> IMMEDIATELY<br><input checked="" type="checkbox"/> ON SPECIFIED FAILURE<br><input type="checkbox"/> AGREEABLE TIME | STANDARDS:                             | Labor 1.0 Hour   |
| LOCATION CATEGORY:              | <input type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER     | SERVICE INVENTORY:                     | <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT |
| AVAILABILITY:                   | PRODUCT'S SUPPORT LIFE  | USED PARTS:                            | <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT |
| AUTHOR: ER                      | ENTITY: 1400  | AGILENT RESPONSIBLE UNTIL: August 1996 |  |
|                                 |   | ADDITIONAL INFORMATION:                |  |

**Action:**

In the event of a customer complaint concerning the above situation, access and view the assembly concerned (see list above). On the assembly, if there are 2 x 1cm square through hole capacitors marked 225M 1H TDK, loaded vertically and blue in colour then replace with P/N 0160-0128.

Note: There are only 2 x 1cm square capacitors loaded on the assembly. The replacement capacitors should be marked AVX 2.2M 305C and be yellow in colour. If the capacitor parts received through the parts system are the same as the type being replaced then contact QTO Product Support, quoting this service note, for parts issue.

Once the replacement has been done, perform a Self Test to verify instrument operation (contained in Service Manual P/N 37724-90000).