

S E R V I C E N O T E

SUPERSEDES None

8671B Synthesized CW Generator**Serial Numbers:** 2823A00785/2933A01027

HP 10811-60102 Quartz Oscillator Faulty Thermal Fuse Causes Early Failures

Duplicate Service Notes:

8673B-19A
 8673C-22
 8673H-01
 8673D-23
 8673G-01
 8673E-12
 8672A-24

Improved Reliability**To Be Performed By:** Customer or HP-Qualified Personnel

This note provides ordering information for replacing faulty fuse with Fuse Upgrade Kit, HP 10811-67001 or 08671-60025.

Parts Required:

HP P/N	Description	Qty
10811-67001	Fuse Upgrade Kit	1
OR		
08671-60025	Fuse Upgrade Kit	1

(Which includes 10811-67001 and an instrument-specific installation note)

DATE 01 August 1990

*Continued***ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☒ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR: 1.5 Hours	
LOCATION CATEGORY:	☒ CUSTOMER INSTALLABLE ☐ ON-SITE ☐ HP LOCATION	SERVICE INVENTORY: ☐ RETURN ☐ SCRAP ☒ SEE TEXT	USED PARTS: ☐ RETURN ☒ SCRAP ☒ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	RESPONSIBLE ENTITY: 0400	UNTIL: 01 August 1992
AUTHOR: DH	ENTITY: 0400	ADDITIONAL INFORMATION:	

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Situation:

The HP 8671B has 10811-60102 as its 10 MHz reference oscillator. A thermal fuse in this oscillator is failing prematurely and causing the oscillator's oven circuitry to lose power. These fuses have been observed to fail as early as three months after delivery of the signal generator.

When the fuse fails, the oven cools down and the oscillator drifts off frequency. Indications of this are as follows:

- The OVEN COLD annunciator will come on and remain on. Normally the OVEN COLD annunciator will turn off within 15 minutes of a cold start.
- The signal generator's output frequency will drift in an unstable manner with changes to its internal temperature.
- The nominal frequency of the reference oscillator will drift out of range of FREQUENCY ADJUST.

Solution/Action:

Order kit 10811-67001 if you already have the installation note 08671-90025 which comes in kit 08671-60025. This installation note contains the following instrument-specific instructions:

- How to determine if a faulty fuse exists
- How to disassemble the instrument
- How to replace the fuse
- How to place new labels identifying the upgrade (Instructions in kit 10811-67001 are incorrect for this signal generator. They cause a label to be placed where it cannot be seen.)
- How to test the instrument after the repair (This involves checking that the OVEN COLD annunciator goes out and performing the the output level and flatness tests found in chapter 4 of the instrument's manual.)

If you don't already have a copy of installation note 08671-90025, order kit 08671-60025 or request a copy directly from the factory customer support engineer. Thereafter, save the installation note for future repairs.

Time required to complete the repair/upgrade and testing is about 1.5 hours.