

S E R V I C E N O T E

SUPERSEDES:

HP 8568B Spectrum Analyzer
HP 85680B RF Section

Serial Numbers:

2841A04340/3001A04941

Oven Oscillator Thermal Fuse Failure**Parts Required:**

Thermal Fuse Kit, HP part number 10811-67001

Situation:

The thermal fuse (HP part number 2110-0801) in the Oven Oscillator (HP part number 10811-60111) of the A27 Frequency Standard (HP part number 5062-1916) will fail after the oscillator has been in operation 3 months to 2 years.

The defective fuses are in Oven Oscillators with serial prefix 2850A. The serial number label is located under the top isolation mount on the oscillator and cannot be seen without removing the isolation mount. Therefore, use the instrument serial number to identify units with defective fuses.

DATE: 10 April 1990

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		MODIFICATION RECOMMENDED	
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY	LABOR	
	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS: 1.0 Hour	
	<input checked="" type="checkbox"/> AGREEABLE TIME	SERVICE INVENTORY:	USED PARTS:
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE	<input type="checkbox"/> RETURN	<input type="checkbox"/> RETURN
	<input type="checkbox"/> ON-SITE	<input type="checkbox"/> SCRAP	<input checked="" type="checkbox"/> SCRAP
	<input checked="" type="checkbox"/> HP LOCATION	<input checked="" type="checkbox"/> SEE TEXT	<input type="checkbox"/> SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE	RESPONSIBLE ENTITY: 5300 UNTIL: 1 May 1992		
AUTHOR: BS	ENTITY: 5300	ADDITIONAL INFORMATION: Refer to Service Note 10811A/B-03	

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8568A-27

Symptoms of an open fuse are as follows:

- OVEN COLD error message appears on screen
- Frequency drift
- Decrease in Center Frequency accuracy
- Unable to adjust the frequency standard within specifications

Solution:

Any HP 8568B within the serial number range listed above and all Frequency Standards in Service Stock having Oven Oscillators with serial prefix 2850A should have the fuse replaced with HP part number 10811-80008. For convenience all parts required to replace the fuse are included in the Thermal Fuse Kit (HP part number 10811-67001).

This service note and Service Note 10811A/B-03 describe how to identify modified oscillators and instruments.

Repair and Recalibration Procedure

1. Turn the HP 8568B over to access the bottom of the instrument.
2. Remove the power cord, two bottom rear feet, bottom cover, carrying handle and side cover.
3. Remove the A27 Frequency Standard by removing the two top mount screws on the side rail and disconnecting the coax cable (red or grey with red band) at A16J1.
4. Service Note 10811A/B-03 describes how to replace the defective fuse once the Frequency Standard has been removed from the instrument.
5. Reinstall the Frequency Standard.
6. Replace the power cord, two bottom rear feet, bottom cover, carrying handle and side cover.
7. Allow the instrument to warm up for at least 30 minutes.
8. Perform the Center Frequency Readout Accuracy Test. Use HP part number 5010-4670 Performance Test part 2 software.
9. If the Center Frequency Readout Test fails, the Time Base Adjustment should be performed.

A recommended method for further identification of instruments with replaced fuses is to use a label (HP part number 9320-5559). Type or print the service note number (8568B-27) in the space above "PSSN Installed". Attach the label to the rear panel of the instrument near the serial number label.