

**N8974A-07**

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

Supersedes:  
None

**N8974A NFA Noise Figure Analyzer**

Serial Numbers: [MY45270310 / MY45270346]

**N4000A & N4001A Smart Noise Source Excessive Noise Ratio (ENR) data may not properly download.**

**Parts Required:**

P/N	Description	Qty.
N8972-60021	Noise Figure 2 <sup>nd</sup> Interface Bus Board	1

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:	
<b>MODIFICATION AVAILABLE</b>	
ACTION CATEGORY:: ON SPECIFIED FAILURE	<input type="checkbox"/> PERFORMANCE ENHANCEMENT <input checked="" type="checkbox"/> SERVICE / RELIABILITY ENHANCEMENT
LOCATION CATEGORY: X CUSTOMER INSTALLABLE X ON-SITE X SERVICE CENTER X CHANNEL PARTNERS	AVAILABILITY: August 1, 2009 - August 1, 2010
AUTHOR: BAD	PRODUCT LINE: PL12
ADDITIONAL INFORMATION:	

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**Situation:**

When connecting an N4000A or an N4001A, SNS Series Noise Source to the affected instruments, a constant message of “Reading SNS noise source data. Do not remove connector” may appear on the analyzer display. When this message stays on screen, the ENR data will not download into the Noise Figure 2<sup>nd</sup> Interface Bus board.

The N4002A does not have the issue, nor does the 346 series of noise sources.

**Solution/Action:**

If the message “Reading SNS noise source data. Do not remove connector” appears and stays on the analyzer display when using an N4000A or an N4001A, this is the specified failure. If this failure occurs, verify the following two items to make sure the Noise Figure SIB is the cause:

1. The instrument serial number **must** be within the range stated above.
2. The serial number of the Noise Figure SIB board **must** be within the starting range of 790833 to 790915 or 798330 to 799150. Using figure 1 below as an example, the instrument serial number **and** the Noise Figure SIB are within the affected range.

If the analyzer is within the instrument serial number range, the Noise Figure SIB board is within the serial number range and the message, “Reading SNS noise source data. Do not remove connector” stays on the analyzer display; the Noise Figure SIB board should be replaced with item number N8972-60021 at no charge.

**Figure 1**

Agilent 23:29:44 Jul 10, 2009 R T					Hardware
NFA Series Noise Figure Analyzer					
Product Number: N8973A					
Serial Number: MY45270929					
Firmware Revision: A.01.12 Date: Nov 26 2004 13:20:53					
Bootrom Revision: 500 ROM Size: 8388608 RAM Size: 16777216					
Assembly Name	Part #	Serial #	Rev	HW ID	
Power Supply Cnt	E440160172	01053017862	01 C	7	
Noise Figure RF	N897260101	79903000031	01 A	112	
Front Panel Card	N897260007	23073800009	99 B	12	
50Ω 3 GHz Input	E440360107	23084400083	05 A	82	
1D5: Hi Stability Freq Ref	E440360053	23084600026	00 B	81	
Processor	N897460009	23083800167	00 E	4	
Noise Figure SIB	N897260021	79084400508	01 A	114	
Noise Figure IF	N897260002	79084801325	03 C	113	
140 Watt Power Supply	E440160222	53053017862	00 D	7	
3.5" Floppy Disk					
GPIB & Parallel					
LO GPIB & RS-232					
Narrow BW DSP					