

MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

E5070B-13

S E R V I C E N O T E

Supersedes:
None

E5070B ENA Series Network Analyzer, 300 kHz to 3 GHz

Serial Numbers: MY42401691 – MY42401916

“PLL Unlock” Error Message due to A21 Analog Interface Board Failure

To Be Performed By: Agilent-Qualified Personnel

Parts Required: See Solution/Action

| P/N | Description | Qty. |
|-------------|----------------------------|------|
| E5070-66521 | A21 ANALOG INTERFACE BOARD | 1 |

ADMINISTRATIVE INFORMATION

| | | | |
|----------------------------------|---|---|---|
| SERVICE NOTE CLASSIFICATION: | | | |
| MODIFICATION RECOMMENDED | | | |
| ACTION CATEGORY: | <input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME | STANDARDS: LABOR: 0.5 Hours | |
| LOCATION CATEGORY: | <input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER | SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT | USED PARTS: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE | AGILENT RESPONSIBLE UNTIL: October, 2008 | |
| AUTHOR: jm PRODUCT LINE: WN | | | |
| ADDITIONAL INFORMATION: | | | |

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Situation:

If “PLL Unlock” was occurred, A1 Source board may be faulty as described in the service manual. But there are some units among the indicated serial numbers that shows “PLL Unlock” because of A21 Analog interface board failure.

Solution/Action:

Confirm whether “PLL Unlock” occurs or not with the following setups. If it occurs with one of them or both of them, it is caused by A21 failure. Replace A21 to new one.

Setup 1. (Start frequency = 1 GHz, Stop frequency = 1.05 GHz, Points = 401)

- 1-1. Press [Preset] Key
- 1-2. Press [Start], [1], and [G/n] key to set the start frequency as 1 GHz.
- 1-3. Press [Stop], and enter 1.05 and press [G/n] key to set the stop frequency as 1.05 GHz.
- 1-4. Press [Sweep Setup] key and “Points” soft key, enter 401 and press [x1] to set the point as 401.

Setup 2. (Span = 0 Hz, Points = 1601)

- 2-1. Press [Preset] key.
- 2-2. Press [Span], [0], [x1] to set the sspan as 0 Hz.
- 2-3. Press [Sweep Setup] key and “Points” soft key, enter 1601 and press [x1] to set the points as 1601.

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