

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**4287A-07**

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

Supersedes:  
None

## 4287A RF LCR Meter

Serial Numbers: JP1KGxxxxx, JP2KGxxxxx, MY432xxxxx, MY43300413 - MY43300672 .

### “PLL unlock” Error Message due to A3 Source Board Failure

To Be Performed By: Agilent-Qualified Personnel

**Parts Required:**

P/N	Description	Qty.
04287-69563	A3 Source Board	1
(or 04287-66563	A3 Source Board	1 )

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR: 4.0 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 checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: July 2008	
AUTHOR: jm	PRODUCT LINE: WN		
ADDITIONAL INFORMATION:			

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**Situation:**

There are some units among the indicated serials that are displayed “PLL unlock” error message because of A3 Source board failure. The failure is depending on the hours of operation.

**Solution/Action:**

When the error message is displayed, firstly check the output signal of A1 REF OSC referring the service manual. If the output signal of A1 is correct, A3 Source board is faulty. Replace the A3 Source board to 04287-69563 or 04287-66563.

New Part-Number	Old Part-Number
04287-66563	04287-66553
or	
04287-69563	04287-69553

**Procedures:**

Perform the post repair procedure referring the service manual.

Adjustments and Correction Constants (CC)

- A3 Local Level Adjustment
- A3 Output AGC Gain Adjustment
- A3 Output Level Adjustment
- A4 Local AGC Gain Adjustment
- A4 Local Level Adjustment
- A4 IF Local AGC Gain Adjustment

Verification

- “To Execute Internal Test” on page 117
- Frequency Accuracy Test
- Power Level Accuracy Test
- Impedance Measurement Accuracy Test

- End of Document -