

8648B-03

S E R V I C E N O T E

Supersedes:
NONE

8648B Signal Generator

Serial Numbers: ALL

**Ensuring the correct motherboard part number is entered when using the
Motherboard Repair Utility.**

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: INFORMATION ONLY	
AUTHOR: PY	PRODUCT LINE: 15
ADDITIONAL INFORMATION:	

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Situation:

After replacement of the motherboard, you will be required to use the 8648 Motherboards Utility which will download information into the controller portion of motherboard. Motherboard part number is 08648-60314 (for serial number prefix < 3836A/3836U) and 08648-60614 (for serial number prefix => 3836A/3836U). Currently 08648-60614 board is ordered with part number 08648-60053. Entering the motherboard part number to **0053** as the last 4 digit of the motherboard part number in the Motherboard Repair Utility will cause the instrument AM modulation not functioning below 1GHz.

Solution/Action:

After opening the Motherboard Repair Utility, you are required to enter the correct instrument serial number, model number and ensure the options installed are correct. For the 8648B/C/D models, enter the last 4 digits of the A11 attenuator serial number.

On the A3 Motherboard ID number portion, use the following guide below when entering the last 4 digits of part number

For serial number prefix < 3836A/3836U, the last 4 digits is “**0314**”

For serial number prefix => 3836A/3836U, the last 4 digits is “**0614**” (do not enter 0053 as the last 4 digits or else the AM modulation function below 1GHz will not work)

The screenshot shows the '8648 Motherboard Repair Utility' window. It has a title bar with the text '8648 Motherboard Repair Utility'. The main area is divided into several sections:

- Please enter the GP-IB address to establish communication with the DUT:**
 - Enter the DUT current address:
 - Enter the desired Serial Number:
- Enter the desired A11 Attenuator Numbers:**
 - Last 4 digits of part number:
 - 5 digit Serial number:
- Enter the desired A3 Motherboard ID Number (highlighted with a red box):**
 - Last 4 digits of part number:
 - 5 digit Serial number:
- Select the desired Model:**
 - 8648A
 - 8648B
 - 8648C
 - 8648D
 - Unknown
- Select the installed Options:**
 - 1E5 - HIGH STABILITY TIMEBASE
 - 1E6 - PULSE MODULATION
 - 1EA - HIGH POWER
 - 1EP - PAGER/ENCODER
 - HO1 - RF REMAINS IN SAME STATE
 - 1E2 - AUDIO OSCILLATOR
- Progress Indicator:**

At the bottom, there are three buttons: **Get Data**, **Send Data**, and **Cancel**.

For more information, you can refer to Chapter 7 of the Service Guide, in the ‘Motherboard Repair Utility’ section. (this is a big file, will take awhile to download)

<http://cp.literature.agilent.com/litweb/pdf/08648-90048.pdf>