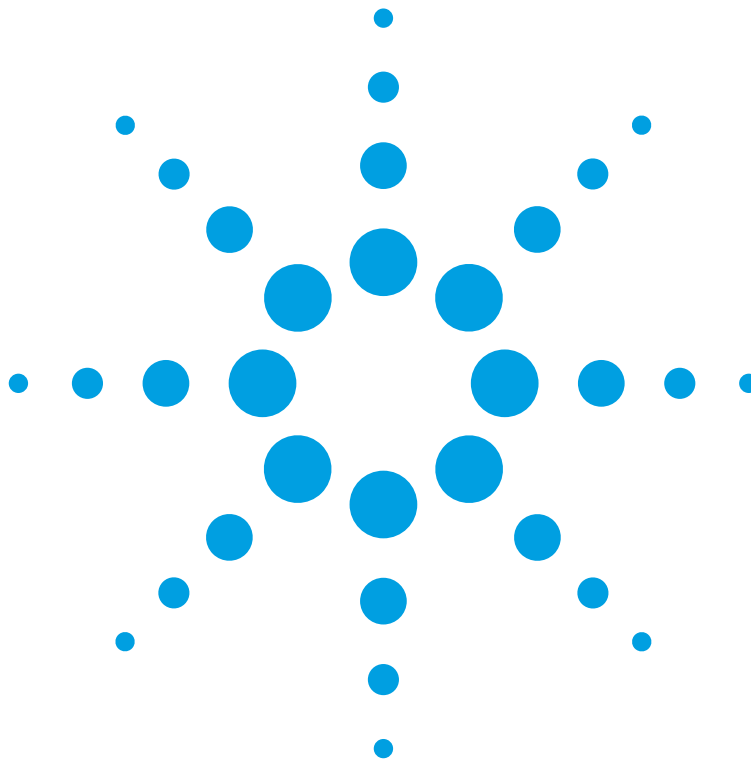


Agilent 54754A
Option 002
Installation Note



Agilent Technologies

Notices

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CAUTION

Caution denotes a hazard. It calls attention to a procedure which, if not correctly performed or adhered to, could result in damage to or destruction of the product. Do not proceed beyond a caution sign until the indicated conditions are fully understood and met.

WARNING

Warning denotes a hazard. It calls attention to a procedure which, if not correctly performed or adhered to, could result in injury or loss of life. Do not proceed beyond a warning sign until the indicated conditions are fully understood and met.

Description and New Features

The Option 002 gives the 54750A mainframe the ability to use the 83481A, 83484A/B, 83485A/B, and 54752A/B plug-in modules purchased separately. Before you can use an 54753A or an 54754A plug-in module, you must purchase and install the 54755A system firmware upgrade.

A new feature is available after installing the Option 002, Best Flatness Variable Bandwidth Limit. The samplers used in the 54750A and 83480A systems have a certain amount of passive feed through. This feed through is corrected by a compensation circuit. A small amount of feed through does remain after compensation and this causes slight non-flatness in a step response. Since averaging implies single-valued waveforms, the Best Flatness control takes advantage of this to further improve flatness. This is done by taking a sample with the samplers turned on and then with the samplers turned off. The two results are then subtracted thereby removing the residual non-flatness.

Installation Instructions

Use the following instructions to install the Agilent 54754A Option 002 system firmware.

- 1** Insert the Option 002 disk in the floppy disk drive.
- 2** Press the SYSTEM Utility front panel key.
- 3** Press the System config ...softkey.
- 4** Press the Update system firmware softkey.
- 5** Press the Continue softkey.
- 6** Wait for the installation to complete.
- 7** Remove the disk from the floppy disk drive.

Check the Utility Service menu to see if any of the plug-in modules in the mainframe require initialization and calibration by performing the following steps.

NOTE

It is NOT necessary to initialize optical plug-ins such as the 83481A and the 83485A/B.

- 1** Press the SYSTEM Utility front panel key.
- 2** Press the Service softkey.

Installation Instructions

In the bottom portion of the display is a section labeled Plug-ins. In this section, all plug-in modules in the mainframe are identified. If any of these plug-in modules has known as their Model number, then these plug-in modules must be initialized and calibrated as follows.

CAUTION

Do NOT initialize a plug-in that has an optical input. Initializing an optical plug-in will erase the optical calibration and the plug-in will have to be returned for recalibration.

- 1** Press the Plug-in ...softkey.
- 2** Press the Plug-in softkey to select the number of the plug-in to be initialized.
- 3** Press the Initialize plug-in memory softkey.
- 4** Press the SYSTEM Utility front panel key.
- 5** Press the Calibrate ...softkey
- 6** Press the Calibrate plug-in ...softkey.
- 7** Press the Plug-in softkey to select the plug-in to be calibrated.
- 8** Press the Start cal softkey and follow the directions that will appear on the top line of the display.

Contacting Agilent

Call the Agilent Technologies Contact Center at (800) 829-4444, visit the Web for Online assistance: www.agilent.com/find/assist, or call one of the numbers listed below.

Table 1. Agilent Technologies Service Numbers

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Installation Guide

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