Installation Note
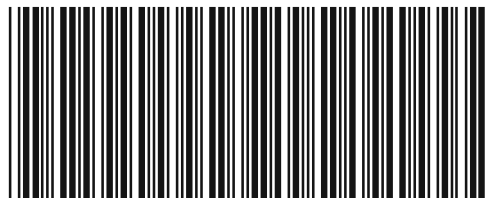
**Agilent Technologies 8510 / 8360 Series
Installation Instructions for
Front-Panel Emulator Kit 08510-60022**

08510-90268

Notice.

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Agilent 08510-60022

Product Affected:	8510 / 8360 Series
Compatibilities:	Any of the dedicated 8510C systems with 8360 source models without front panel keyboard display.
To Be Performed By:	(X) Personnel Qualified by Agilent (X) Customer

Introduction

This kit includes parts and instructions to install a front-panel overlay. This overlay allows you to emulate the front-panel key of an 8360A series source with a blank front-panel on the 8510C keyboard and CRT/LCD display.

Installation Kit Parts List

Table 1-1   Parts Kit 08510-60022 Contents

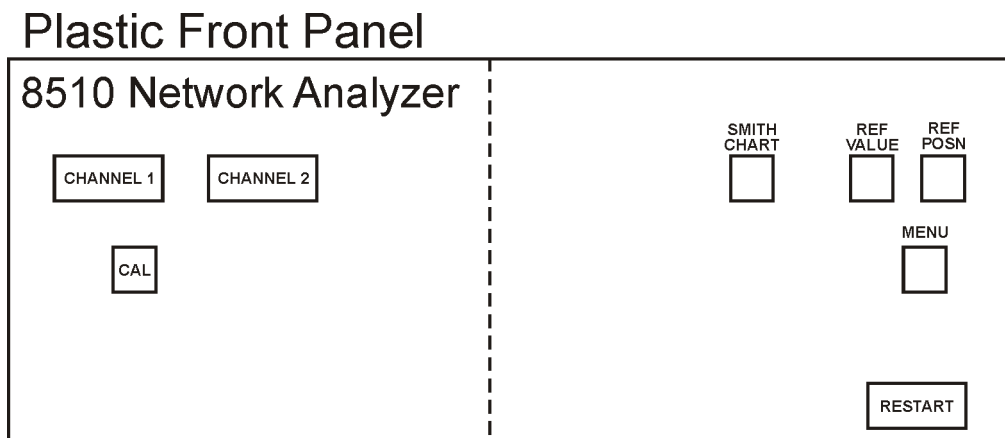| Quantity	Description	Part Number
1	Plastic Front Panel (keyboard overlay for the 85102B)	85102-80115
1	Installation Note	08510-90268

Document Typeface Conventions

- Hardkeys on the instrument box are shown in **bold** typeface within square brackets, e.g. **[=MARKER]**

- Softkey menu items are shown in **bold** typeface within braces, e.g, **{SERVICE FUNCTIONS}**.

Procedure

In all of the following procedures:

— The 85101 is the instrument with the display (top box of an 8510 system).

— The 85102 is the instrument marked 8510C Network Analyzer (bottom box of an 8510 system).

— TMSL language is similar to SCPI.

• Install the plastic front-panel keyboard overlay over the existing 85102B (bottom box) front panel. Press the plastic front panel firmly into place using your finger tips. Once the panel is installed, do not press the unused keys, as this will cause the panel to come loose.

Figure 1-1   Front Panel Attachment Positions

ds401a

CAUTION   If you run the 8360 series self tests, do not stop them in the middle and go back to network analyzer mode as this will cause the system to lock up.

Emulation Process for an 8510C System

NOTE   At this point in the procedure, it is assumed that the 8510 operating system firmware has been installed.

Refer to the *8510C Network Analyzer On-Site Service Manual* for more information about these procedures.

1. Check that the 8510 system is cabled and installed properly and that the 8360 series language switch is set to network analyzer language (001). Turn on the power of the system in the following order:

    a. Source
    b. Test Set
    c. 8510C

2. To activate the 8360 series front-panel emulator on the 85101C (top box of the 8510C), press:

    {MORE}

    {SERVICE FUNCTION}

    {TEST MENU}

    [2] [2] [=MARKER]   This will take you to the 8510 service program menu.

    [4] [=MARKER]   This will take you to the 8360 service program menu. This menu accesses the menus and corresponding functions resident in the 8360 series sources. This is done by communicating with the source over the GPIB, sending commands to and receiving responses from the source.

GPIB (HP-IB) Test.. 1	Tests the communication between the 85101C GPIB interface and the 8360 source GPIB interface. The 85101C sends a command to the 8360 source asking for identification and the source sends back its identifying string if the communication is successful.
Front Panel Emulator.. 2	Primarily used to access the menus resident in 836X1 sources that do not have a front panel. It is used to perform diagnostics and calibration of the source. This is done by using a combination of the softkeys on the 85101C and hardkeys on the 85102. A front-panel overlay for the 85102 shows the location and function of the keys on the 85102 that access the menus and control the various source functions.
Change GPIB (HP-IB) Address (default is 19).. 3	Allows you to select the source within a system to be addressed by the front panel emulator. This is used if the system has multiple sources (i.e, RF and LO) or an RF source at a different GPIB address than the default. Make sure that the dip switches on the desired source are set the same as this selection. The default address for an RF source in an 8510 system is 19. The default address for an LO source is 18.

    Press: **[2] [=MARKER]**   This will take you to the front panel emulator.

To exit the front panel emulator and return to the 8510 TEST MENU, you must:

- On the 85101C (top box of the 8510C), press:

  [=MARKER]

  [X1] Pressing this key will convert the 8360 series source back to the GPIB network analyzer language. If you do not do this, the 8360 will stay in TMSL language and will hang up the 8510C analyzer.

  [.] (F) [=MARKER]

  [.] (F) [=MARKER]

  [15] [=MARKER] This returns you to normal 8510 operation.