Installation Note

HP/Agilent 8922U Option 102

HP/Agilent 8922F to HP/Agilent 8922S Upgrade

Agilent Technologies

HP/Agilent 8922U Option 102 Installation Procedure

This document details the installation of HP/Agilent 8922U Option 102.

NOTE

This upgrade provides the GSM functionality of the HP/Agilent 8922S, while retaining the RF Generator and RF Analyzer operating parameters of the HP/Agilent 8922F.

Introduction

During this procedure you will:

a) Install new ROMs on the A32 GSM Controller Assembly.

b) Install new Host ROMs on the A8 Memory Assembly.

c) Install the new A7 DCU Controller Assembly.

Parts List

Description	Quantity
A7 DCU Controller Assembly	1
GSM ROM SET (set of 4 ROMs), 08922-61896	1
Host ROM Set (set of 8 ROMs), 08922-61895	1
A8 Memory Assembly	1
Agilent 8922M/S GSM Test Set User's Guide	1
Agilent 8922M/S GSM Test Set Programming Reference Guide	1
Agilent 8922 Quick Start Guide	1
"8922U #102" Label	1
"Agilent 8922F ➔ S" Label	1
"Agilent 8922E ➔ S" Label	1

Tools Required

- T-10 Torx screw driver.
- T-15 Torx screw driver.
- 2-pt Posidriv screw driver.
- IC Extraction Tool (32 pin DIL).
- IC Extraction Tool (32 pin PLCC).

Procedure

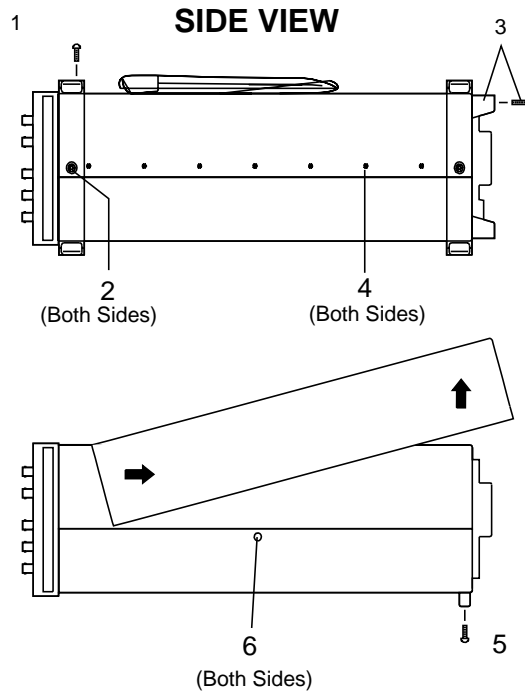|	
CAUTION	Perform the following procedure only at a static safe work station. The printed circuit assemblies and ROMs in this instrument are very sensitive to STATIC ELECTRICITY DAMAGE. Wear an anti-static wrist strap that is connected to ground.

NOTE	A RAM initialize must be carried out before removing any parts. To initialize RAM;

- Select CONFIG screen.
- Select SERVICE screen.
- Then select RAM Initialize and reply to prompts at top of display.

Top Cover Removal

1. Remove four 2-pt. Pozidriv top bumper mounting screws.

2. Remove four 2-pt. Pozidriv side mounting screws and bumpers.

3. Remove two 2-pt. Pozidriv screws and standoffs.

4. Remove fourteen TX-10 screws and top cover.

Remove Internal RF Cover

Covers A and B to be removed using a TX-15 screw driver. Refer to Figure 1 "Internal RF Cover Removal" on page 6.

Replace Host ROMs

Refer to Figure 2 "Board Locations" on page 6 for location of A8 Memory Assembly. Remove the current A8 Memory Assembly (which will be scrapped). Install the new Host ROM Set (08922-61895) into the **new** A8 Memory Assembly, if this has not been done already, ensuring a match between ROMs and ROM locations. Install the completed assembly into the instrument.

Replace GSM ROMs

Refer to Figure 2 "Board Locations" on page 6, remove the A32 GSM Controller Assembly. Remove the four GSM ROMs U15,16,17,18. Install the GSM ROM set (08922-61896).

Re-install the A32 GSM Control Assembly.

Install 08922-60295 DCU Controller Assembly

Remove the A7 DCU Controller Assembly (08920-60307). Install the new A7 DCU Controller Assembly (08922-60295).

NOTE	The calibration ROM is to be extracted from the old A7 assembly and then inserted into the new A7 assembly. Ensure that the calibration ROM is inserted correctly.

Reposition the A7 DCU Control Assembly DIP switches

Refer to Figure 3 "DIP Switch Location" on page 7 for DIP switch settings.

Re-install the A7 DCU Control Assembly.

Verify firmware revisions using the SERVICE screen

The SERVICE screen is used to verify the correct installation of the Host and GSM firmware by checking the datecodes. Datecode are shown in the format YYYYMMDD.

- Power ON the HP/Agilent 8922F.
- The display will show HP 8922S at power ON.
- Using the Cursor Control knob select the **CONFIG** screen.
- Using the Cursor Control knob select the **SERVICE** screen.
- Select RAM Initialize field and reply to the prompts at the top of the display.
- From the **Latch** field select the **host_revision** choice.
- Ensure the datecode, shown in the **Value** field is **19960131** or greater.
- From the **Latch** field select the **g_boot_revision** choice.
- Ensure the datecode, shown in the **Value** field is **19960112** or greater.
- From the **Latch** field select the **gsm_fw_revision** choice.
- Ensure the datecode, shown in the **Value** field is **19960117** or greater.

Replace Internal RF Covers

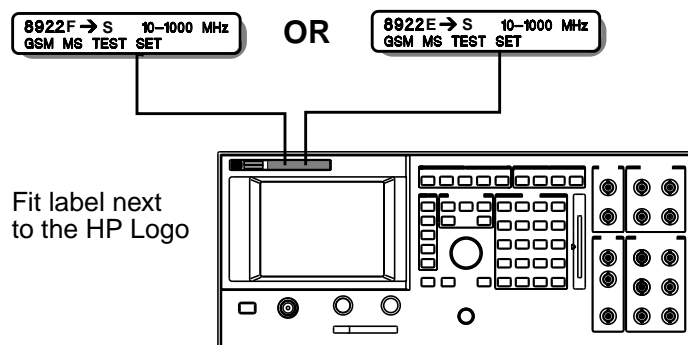### Replace External Covers

Verify Operation

This is not essential, however a simple and effective verification procedure is to make a call using a GSM mobile.

Option label Installation

Remove the backing from the 8922U #102 label and apply neatly to the rear panel of the HP/Agilent 8922F in a position where it can be seen.

Add Model Identification Label

Attach the correct model identification label to the front panel label as shown below.
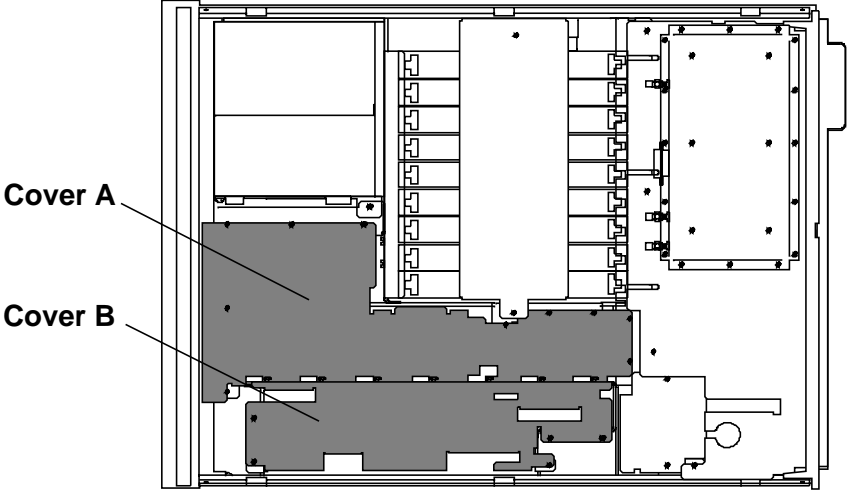
Part Location Diagrams
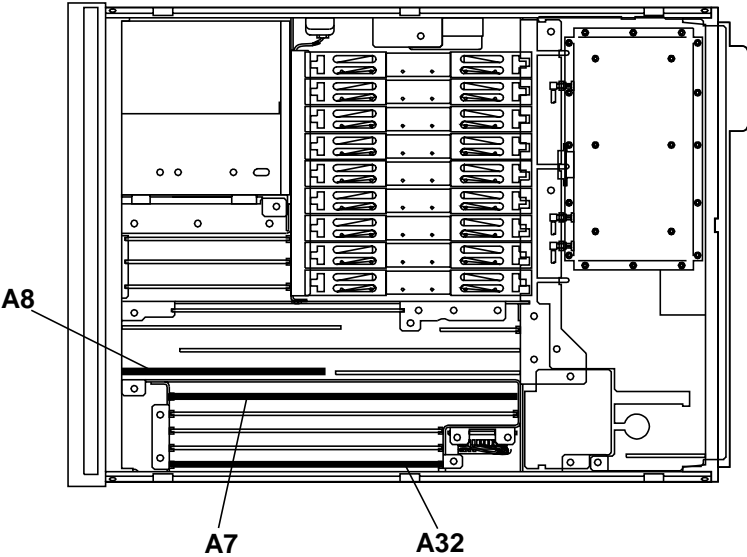

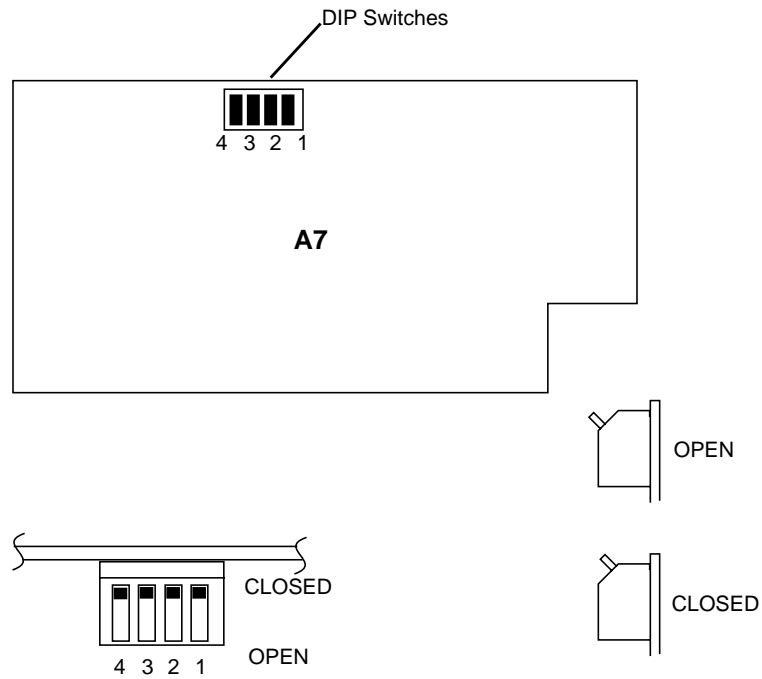**Figure 1**   **Internal RF Cover Removal**

Figure 2   **Board Locations**

DIP Switches

A7

OPEN

CLOSED

OPEN

CLOSED

4 3 2 1

Figure 3   **DIP Switch Location**

Switch	Function	Closed	Open	Position
SW 1	CAL EPROM WRITE	Enable	Disable	CLOSED
SW 2	Smart Card Type	EPSON	PCMCIA	CLOSED
SW 3	HOST Memory Location	A8 OTP	A7 Flash	CLOSED
SW 4	Not Used			Not Applicable

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