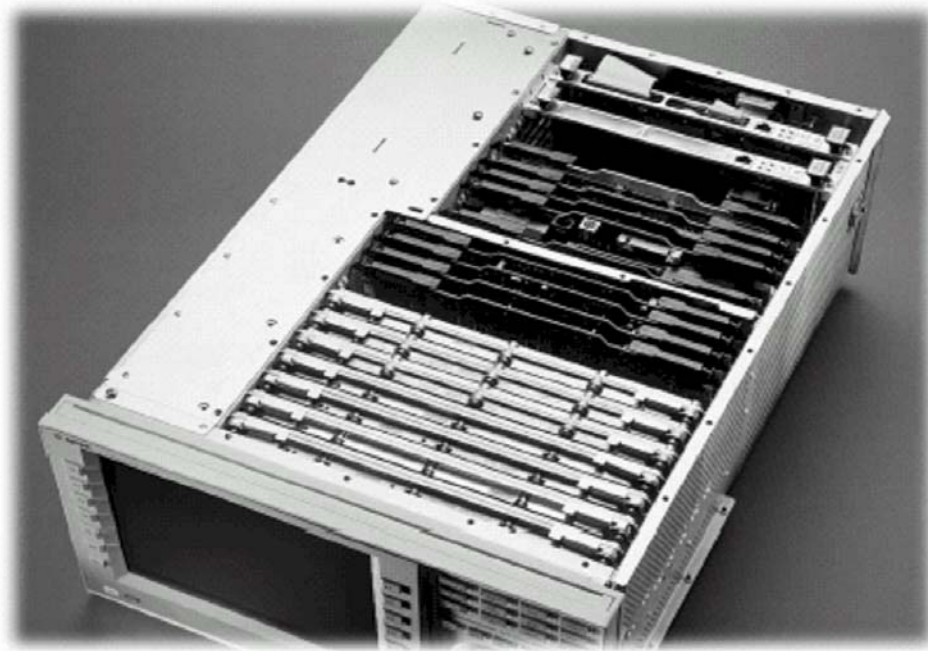# Installation Note

Agilent Technologies 8960 Wireless Communication Test Set
Rear Panel Upgrade 3
Kit Part Number: E5515CU-515

Notice:
The information contained in this document is subject to change without notice.

Agilent Technologies makes no warranty of any kind with regard to this material, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Agilent Technologies shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

⋰⋱ Agilent Technologies

Agilent Technologies 8960 Wireless Communication Test Set
Rear Panel Upgrade 3
Kit Part Number: E5515CU-515

Product Affected:	E5515C
Replaces Board:	E5515-60437 or below
Applications Supported:	All current applications
To Be Performed By:	(X) Agilent Technologies Service Center
	(X) Personnel Qualified by Agilent Technologies
Estimated Installation Time:	1.0 hours
Estimated Verification Time:	0.5 hours

Introduction

This kit provides the instructions for installing the E5515CU-515 Rear Panel into the E5515 Wireless Test Set. The rear panel is required to allow rear panel data bus access to the high speed Protocol Processor (E5515-60759).

NOTE: It is assumed that the E5515 is fully operational prior to a HW upgrade. Installing HW upgrades in a non-operational instrument may complicate a successful installation and verification process.

If this kit is one of several HW options being installed, the following installation sequence is recommended. The actual installation will depend on the specific HW option kit(s) being installed:
   1) Bottom section RF modules (RFIO, Attenuators)
   2) Top section RF modules (Vector, Synth Doubler, BBG)
   3) Digital modules (ADC, DSP, RTI, LSS, Protocol)
   4) Rear section modules (HDD, Host Processor, Rear Panel)

Installation Kit Parts List

Item	Qty	Description
1	1	Rear Panel Assembly
2	1	Installation Instructions (this document)

Tools Required

- TORX T-20 drivers
- 9/16" socket
- Torque Wrench Ratchet (9-21 in-lbs.)

Safety Considerations

WARNING   Before you disassemble the test set, turn the power switch off and unplug the power cord. Failure to unplug the test set can result in personal injury.

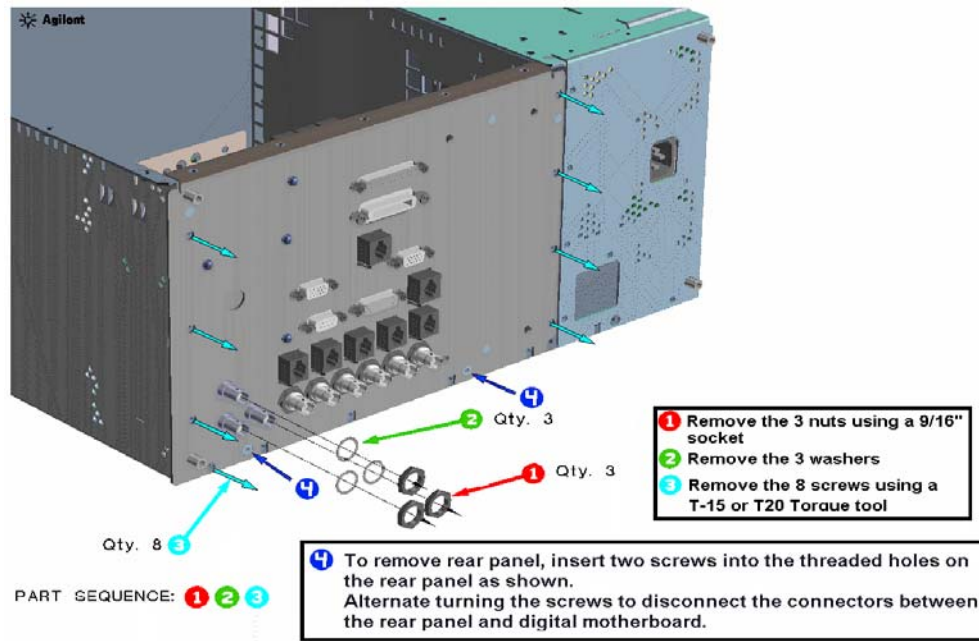| CAUTION	Electrostatic discharge (ESD) can damage or destroy electronic components. All work on electronic assemblies should be performed at a static-safe workstation.

Disassembly:

Remove outer cover and top cover for the 8960

1. Remove handles and rear bumpers.
2. Remove the screws on the Rear Panel holding outer cover.
3. Slide outer cover off.
4. Remove the 26 screws holding the top cover on and remove the cover.

Remove Rear Panel

1. Disconnect the Hard Drive ribbon cable from the Host Processor.
2. Note where the two RJ-45 cables connect to the Rear Panel. Disconnect both RJ-45 cables from the Rear Panel **(if applicable)**.
3. Remove the nuts from the following BNC connectors: COUNTER IN MAX, 10 MHZ REF IN and 10 MHZ REF OUT. (See Figure 1)
4. Remove the 8 screws holding the Rear Panel sheet metal to the chassis.
5. Disconnect the LAN cable from J29 of the Rear Panel board.
6. If the test set has option 004 disconnect the CA-ASSY FLAT RIBBON 7.5 IN LG cable from the Rear Panel board. (See Figure 1)
7. Remove the Rear Panel from the chassis and disconnect the green cable from the Time Base.
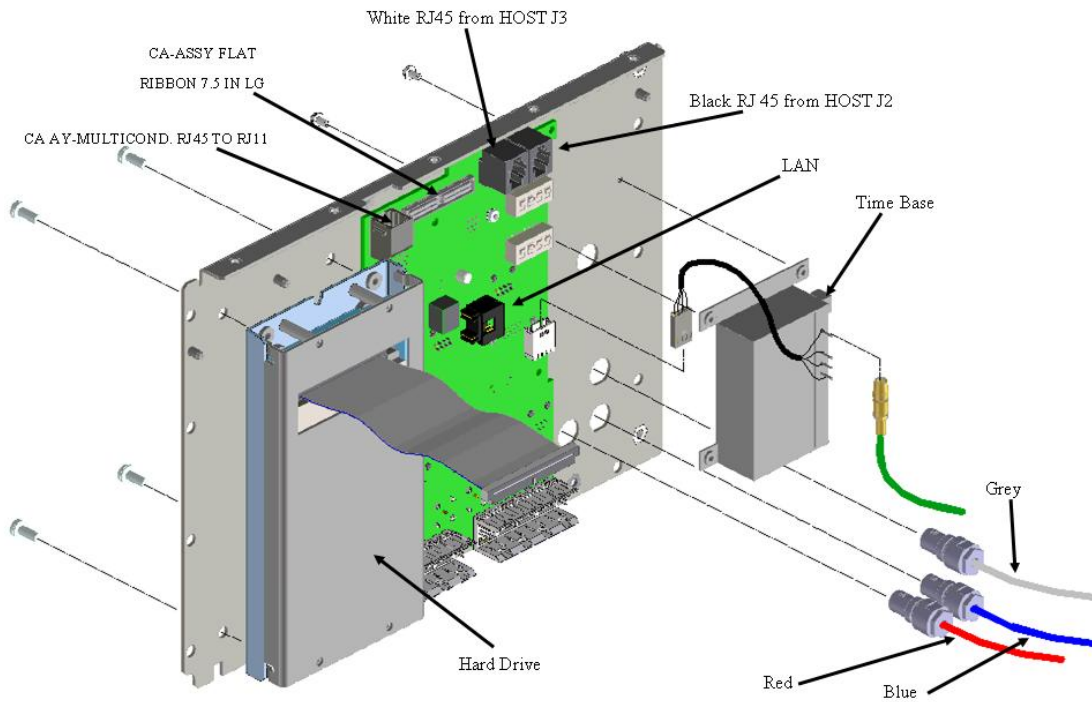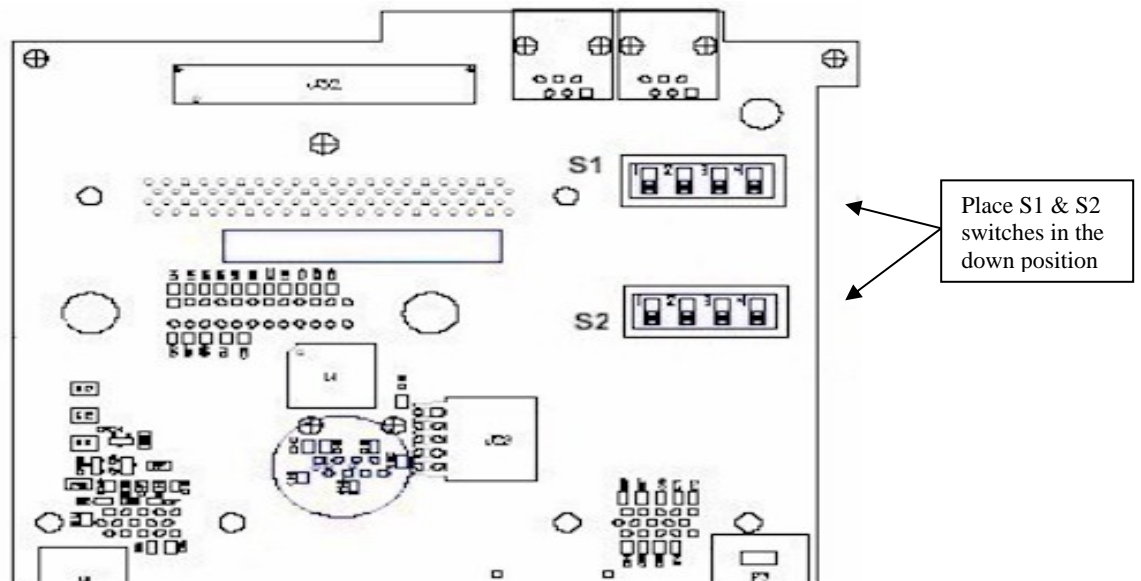8. The Hard Drive and the Time Base will be moved to the new Rear Panel.

Figure 1

Assembly:

Replace Rear Panel

1. Remove the Hard Drive and Time Base from the old Rear Panel.
2. Reinstall the Hard Drive to the new Rear Panel. (see Figure 2)
3. Reinstall the Time Base to the new Rear Panel.
4. Attach the three BNC cables (Grey, Red, and Blue) to the Rear Panel.
5. Connect the green time base cable to the Time Base.
6. Connect the LAN cable to J29 on the Rear Panel Board.
7. If the test set has option 004, connect the CA-ASSY FLAT RIBBON 7.5 IN LG cable from the BBIO board to the Rear Panel board. (See Figure 2)
8. Attach the new Rear Panel to the test set.
9. Reconnect the Hard Drive to the Host Processor with the ribbon cable.
10. Reconnect the RJ-45 cable from the Host Processor to the Rear Panel (if Applicable).
11. Connect the CA AY-MULTICOND. RJ45 TO RJ11 cable between the Protocol and the Rear Panel LAN 2 Port.
12. Check that switches S1 and S2 on the Rear Panel are all positioned in the down position. See Figure 3.

CA-ASSY FLAT
RIBBON 7.5 IN LG

White RJ45 from HOST J3

CA AY-MULTICOND. RJ45 TO RJ11

Black RJ 45 from HOST J2

LAN

Time Base

Grey

Red

Blue

Hard Drive

Figure 2

S1

S2

Place S1 & S2
switches in the
down position

Figure 3

Printed in Malaysia
                                          Revision Date: August 26, 2008

Replace covers

1. Replace the top cover and secure it with the 26 screws.
2. Install the outer cover on.
3. Replace the outer cover screws on the Rear Panel.
4. Attach the rear bumpers and handles.

Verification Test after all HW Upgrades are Installed

1. Turn on the E5515.
2. Check for boot up and/or error messages. If any error message are displayed, re-check installation process for errors.