E5515B-05

S E R V I C E   N O T E

Supersedes:
NONE

E5515B Wireless Communications Test Set (8960 Series)

Serial Numbers: Refer to Appendix 1 for specific instrument (and board) serial numbers

Lockup During Power-up Requires Replacement of Protocol Processor

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
E5515-61850	Protocol Processor Repair Kit	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	IMMEDIATELY X ON SPECIFIED FAILURE X AGREEABLE TIME	STANDARDS: LABOR: 1.0 Hour		
LOCATION CATEGORY:	CUSTOMER INSTALLABLE X ON-SITE X SERVICE CENTER	SERVICE INVENTORY:	X RETURN SCRAP SEE TEXT	USED PARTS: X RETURN SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 1 MAY 2005		
AUTHOR: AS	PRODUCT LINE: 13			
ADDITIONAL INFORMATION: Duplicate Service Notes E5515C-01 and E5515T-04				

Agilent Technologies

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Situation:

The Protocol Processor (Agilent P/N E5515-60359) may cause the test set to lockup during the protocol boot initialization portion of the power-up process or during normal operation. The test set may also restart, depending on the TA (Test Application) version being used. A manufacturing defect caused the socket for the Boot ROM (XU27) to detach from the PC board. An example of a defective board is shown in Figure 1.

The Protocol Processor establishes and maintains the radio link between the test set and mobile station (phone-under-test). It generates forward channel data (for transmission to the mobile via the RF source) and decodes reverse channel protocol streams (for measurement analysis).
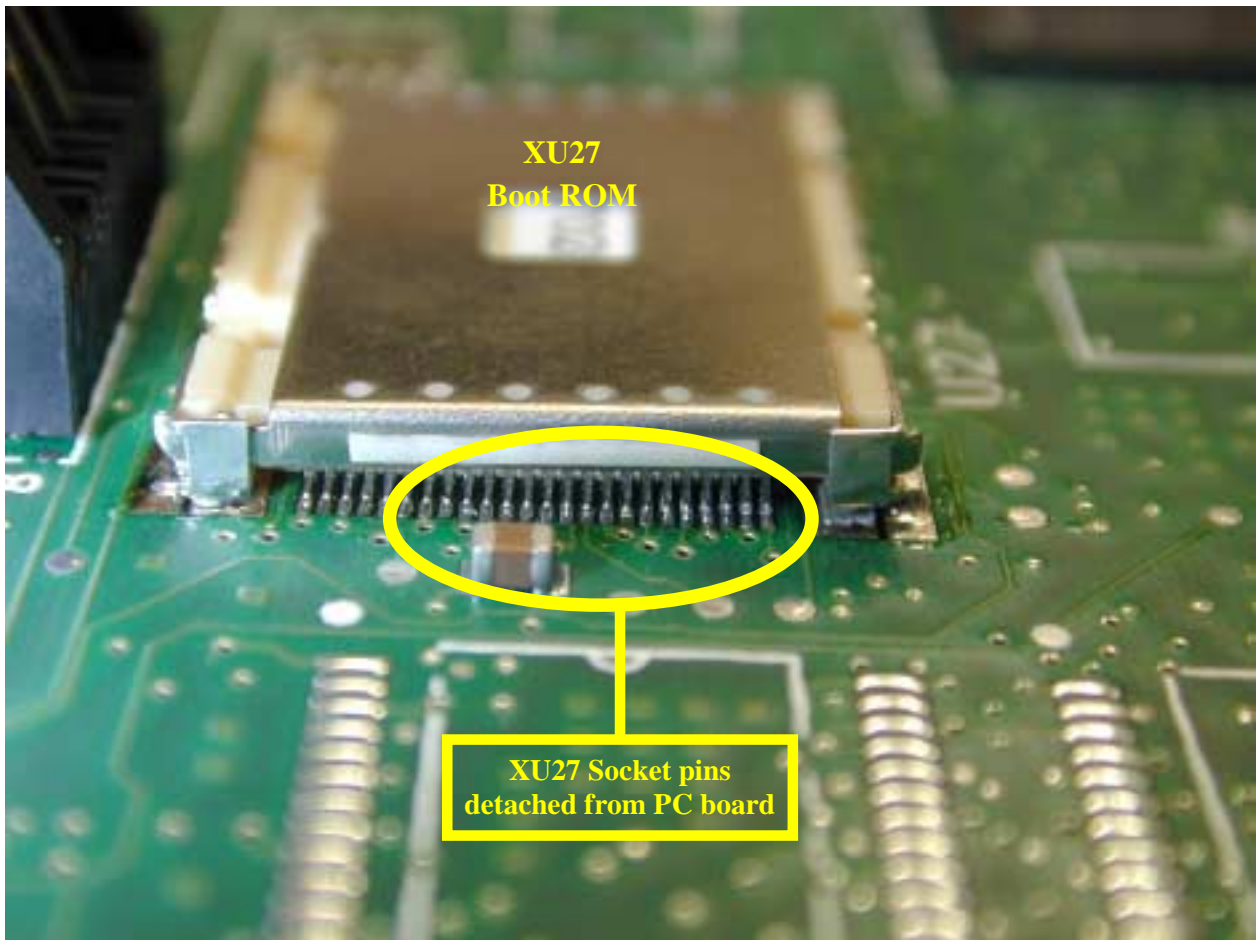

Figure 1

Solution/Action:
If the instrument fails to power-up correctly or locks up during normal operation, verify that the
<u>original</u> Protocol Processor is installed in the test set (refer to Appendix 1 for specific instrument and
board serial numbers). This can be determined by the following methods:

- Test set CSO (service) history.
- Visual inspection of the board's label (see Figure 2).
- Run iconfig (instrument configuration) via LAN:
  o Connect the test set to a LAN (which is also used for TA upgrades).
  o On a PC connected to the same LAN, open an Internet browser window and go to
      "http://xxx.xxx.xxx.xxx/iconfig", where xxx.xxx.xxx.xxx is the test set's IP address.
  o This will return the instrument configuration data. Verify the Protocol Processor's part number
      and serial number.

  NOTE: Early revisions of some TAs may not return data on the three processors (Host,
  Protocol and DSP) within the test set. In this case one of the other methods should be
  used (visual inspection or service history).

Replace the Protocol Processor using Repair Kit E5515-61850 and verify that the test set powers-up
correctly.

Label inspection: Figure 2 shows a label on board part number E5515-60359 with board serial number
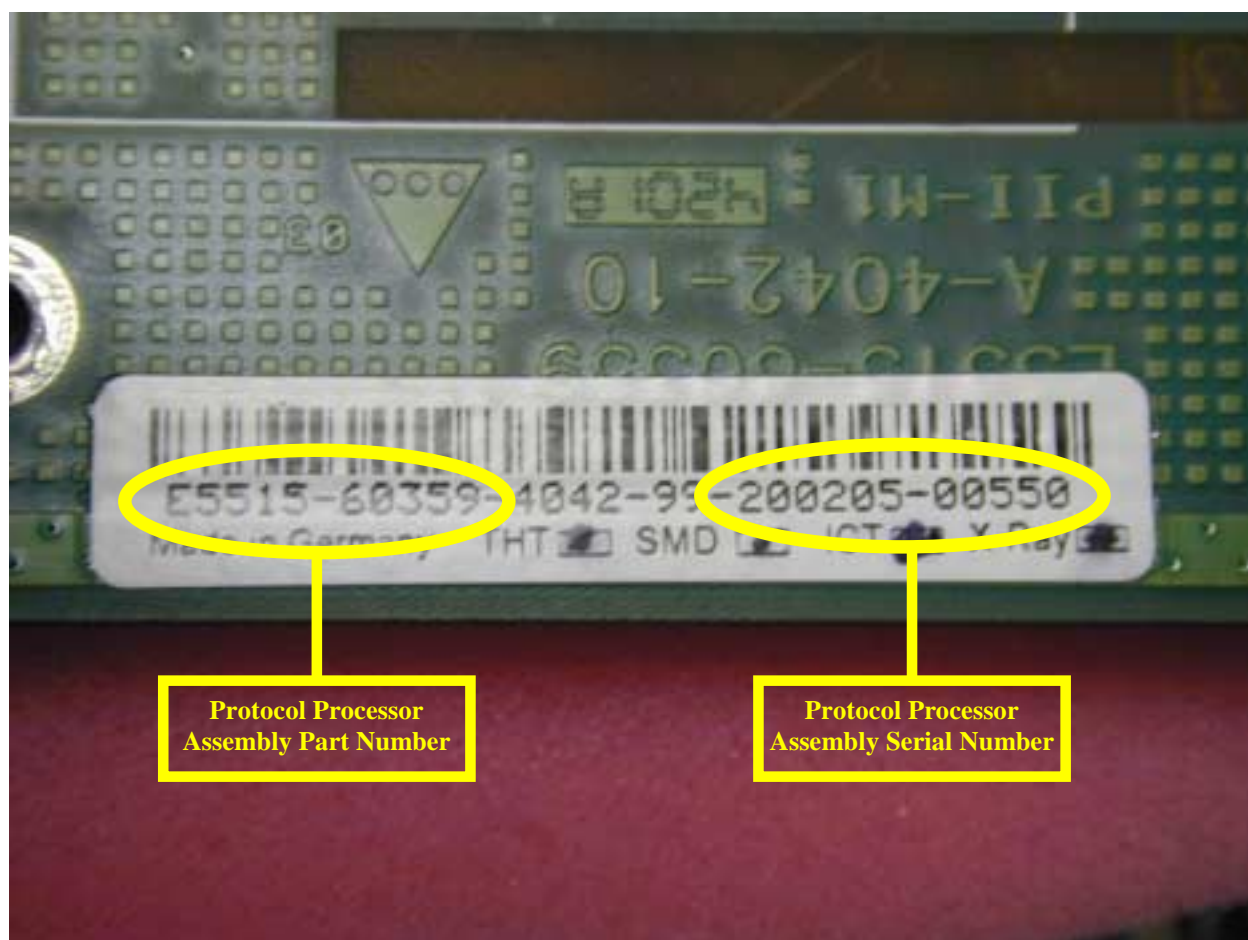200205-00550, which corresponds to year 2002, 5th week, serial number 00550.

Figure 2

Appendix 1:

Model Number	Instrument Serial Number	Protocol Processer S/N
E5515B	US40120013	20010701058
E5515B	US40300232	20010701637