

S E R V I C E N O T E

SUPERSEDES: None

8970B Noise Figure Meter**Serial Numbers:** 3043U02000 / 3446U03600**Ground Wiring Error****To Be Performed By:** Agilent-Qualified Personnel**Situation:**

The ground wire which connects to the shell of the “DET” BNC connector (cathode of diode VR1) has incorrectly been wired to chassis ground (anode of diode VR1).

The connections are shown schematically on Service Sheet 5 of the 8970B Service Manual.

The problem will show up as noise on dc level from the “DET” connector on the rear panel. This can only be found if there is no ground connection on the mating connector i.e. a floating measurement is being made.

Solution/Action:

The fault can be confirmed by measuring the resistance from the shell of the “DET” BNC connector to the shell of the “IF” BNC connector. These are both in the “OUTPUT” group on the rear of the 8970B.

If this measures open circuit then the ground wire has been incorrectly wired.

Desolder the wire from the anode of VR1 and solder it to the cathode of VR1.

DATE: January 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☒ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 1.0 Hour	
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ☒ SERVICE CENTER	SERVICE INVENTORY: ☐ RETURN ☐ SCRAP ☒ SEE TEXT	USED PARTS: ☐ RETURN ☐ SCRAP ☒ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: January 1998
AUTHOR: PN	ENTITY: E600	ADDITIONAL INFORMATION:	

