

S E R V I C E N O T E

SUPERSEDES: None

8563A Portable Spectrum Analyzer**Serial Numbers:** 0000A00000 / 3120A00661**Duplicate Service Notes:** 8560A-16, 8561A-29, 8561B-18, 8562A-60, 8562B-58,
and 8563A-12**Preventing Negative Peak Detector Latchup****Parts Required:** 1 ea. 1901-1098 diode**Situation:**

An intermittent problem can occur at turn-on or at cold temperature where the displayed noise floor jumps to the top of the screen. This is caused by a latchup mechanism in the Negative Peak Detector circuitry.

Solution/Action:

The diode is added from the drain of A3Q306A to ground with the cathode of the diode connected to the transistor. Refer to the section in the Service manual on Assembly Replacement and remove the top and bottom Peak Detector shields from the A3 assembly. Keeping the leads as short as possible, install the diode on the bottom (circuit) side of the board. Solder the cathode (banded) end of the diode to pin 2 of A3Q306 and the anode end to pin 4. Lay the diode down as close as possible to the board to allow room for the shield.

DATE: 16 May 1991

ADMINISTRATIVE INFORMATION

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| SERVICE NOTE CLASSIFICATION: | | | | | |
| MODIFICATION RECOMMENDED | | | | | |
| ACTION CATEGORY: | <input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME | STANDARDS: | Labor 1.0 Hour | | |
| LOCATION CATEGORY: | <input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER | SERVICE INVENTORY: | <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT | USED PARTS: | <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE | | AGILENT RESPONSIBLE UNTIL: June 1993 | | |
| AUTHOR: GPB | ENTITY: 5300 | ADDITIONAL INFORMATION: | | | |