

S E R V I C E N O T E

SUPERSEDES: None

4194A Impedance/Gain-Phase Analyzer**Serial Numbers:** 0000A00000 / 9999Z99999**Duplicate Service Notes:** None**Instructions on repairing A20, A23 and A24 board****To Be Performed By:** Agilent-Qualified Personnel**Parts Required:** None**Situation:**

It is reported that almost 80% of failures on A20, A23 and A24 boards are caused by the breakdown of the protective diode.

Solution/Action:

Shown below is protective diodes on each board. When repaired the A20, A23 and A24 boards, it's recommended that these diodes should be checked at first.

Continued

DATE: 04 June 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:

ENTITY:

ADDITIONAL INFORMATION:

MT

3355



Board No.	Protective Diodes
A20	CR1, CR2, CR3, CR4, CR5, CR6, CR14, CR15, CR19, CR20, CR21, CR22
A23	CR34, CR35, CR36, CR37
A24	CR9, CR10, CR15, CR16

1. Remove one lead of diode and check the reverse dc resistance. If it's only a few ohms, replace it.
2. If all diodes are ok and the 4194A still has a problem, perform troubleshooting for each board with referring to a troubleshooting flow.

Replacing diodes doesn't take a long time. Try it at first. This makes an average repair cost lower than replacing the whole board.