

S E R V I C E N O T E

SUPERSEDES: None

35670A Dynamic Signal Analyzer

Serial Numbers: 0000A00000 / 3431A00933

Firmware upgrade provides new features and defect fixes**To Be Performed By:** Agilent-Qualified Personnel**Parts Required:** See Text**Situation:**

The A.00.15 revision of the 35670A firmware provides several new features and fixes a number of defects that were in the A.00.00 revision shipping since the 35670A was first introduced.

Solution/Action:

Customers wishing to upgrade their 35670A firmware may do so by ordering either upgrade option 35670U #UE2 or upgrade kit 35670-88701. Both packages contain identical items. Reprogram the instruments memory using the two 3.5 discs included in the package, as per installation note instructions.

Continued

DATE: October 1994

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	<input type="checkbox"/> PERFORMANCE ENHANCEMENT <input checked="" type="checkbox"/> SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	AVAILABLE UNTIL: November 1995
AUTHOR: DLC	ENTITY: A100	ADDITIONAL INFORMATION:

Upgrade package contents:

35670-19428 FIRMWARE UPGRADE DISK 1
35670-19429 FIRMWARE UPGRADE DISK 2
35670-90024 OPERATORS MANUAL
35670-90025 GPIB PROGRAMMING MANUAL
35670-90027 INSTALLATION & VERIFICATION MANUAL
35670-90029 INSTALLATION NOTE

New features in revision A.00.15

1. 1600 line FFT.
2. Save data in ASCII format.
3. Time capture file transfer via GPIB.
4. Time capture data transfer via GPIB.
5. Negative skew for waterfall.
6. Integral average times for octave.
7. User selectable short or long power on test.

Revision A.00.15 fixes these revision A.00.00 defects

1. 35670a screen dumps to portable deskjet are too small.
2. Ibasic output to centronics port hangs.
3. Can't load data register with 800 lin FRF data via GPIB.
4. IBASIC output a\$, dround(1,2) doesn't work.
5. No test in progress message for RAM diagnostic.
6. ARBSRC example program listing is wrong.
7. Band Power wrong on Time Capture Trace.
8. 1/12th octave doesn't settle in capture playback.
9. Chirp source has lots of harmonics, affects shakers.
10. INP:REF:DIR needs to accept negative numbers.
11. INP:REF:[POIN|DIR] doesn't update SDF file correctly.
12. ADC test fails on some apparently good 35670A's.
13. Trigger Gate Array self-test fails if input fails.
14. nvram file system corruption with IBASIC program.
15. Sending SYST:KEY <num> followed by LOCAL causes hang up.

16. Sending SYST:KEY 50 causes hang up.
17. Playback data wrong due to correction problem in time capture.
18. Can't turn on fast avg in time avg mode.
19. Units conversion corrupts math and displayed data.
20. Recall of 35665 octave state gives bad frequency scale.
21. IBASIC file copy can cause hang up.
22. AUTO_ST state with capture buff on trace A causes hang up.
23. ord:trac:stat off doesn't work.
24. plotting to HPGL printer gives blank page.
25. Trace math operation trashes Y-axis units.
26. Band Power and RMS Band power are not close.
27. AUTO_BAS programs don't display DISP lines.
28. Plot titles are not plotted when plot is done from IBASIC.
29. Mechanical units not checked when changing meas data.
30. RAM test doesn't test all of RAM.
31. Real-time clock year is off by 4 (years) sometimes.
32. Histogram data wrong when Eng Units are used.
33. Arrow keys don't let hold off time be restored to 0.
34. Adjustment Info Window not cleared on preset.
35. Average time changes in octave without warning user.
36. Keystroke recording gives wrong commands for plot data select.
37. First average is bad in Octave with impulse and linear averaging.
38. OPC hang in order playback when no RPM arm occurs.
39. DISP:VIEW? returns TRAC when measurement state is displayed.
40. Single stepping LOADMATH program causes hang up.
41. Narrow band real-time average faulty when intermediate avgs displayed.
42. Real-time average stops running.
43. Plot of Time Capture re-draws band markers many times.
44. Plotting capture buffer causes hang up.