

S E R V I C E N O T E

SUPERSEDES: None

**8904A Multifunction Synthesizer**

**Procedure For Restoring RAM Data**

**Parts Required:** None

**Situation:**

The A2 Digital Assembly in the 8904A Multifunction Synthesizer contains RAM memory that requires battery backup. If the battery fails, the contents of RAM will be lost which will cause the unit to fail on power up. To prevent this from occurring, it is very important to have your customer replace the battery in the 8904A every five years by carefully following the battery replacement procedure described in the 8904A Service Manual, P/N 08904-90008. Failure to correctly follow the battery replacement procedure could also interrupt the contents of RAM, causing an 8904A failure.

If a battery failure occurs, use the following procedure to restore RAM data on the A2 assembly. This procedure can only be performed by a qualified Agilent Service Center.

After the battery is replaced, apply a generic adhesive label to the 8904A rear panel with "Replace Battery MM-YY" on it, where MM (month) YY (year) is today's date plus 5 years. For example, if a battery was replaced 10-93 the label should read "Replace Battery 10-98".

*Continued*

DATE: 24 September 1993

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:		
<b>INFORMATION ONLY</b>		
AUTHOR:  LHL	ENTITY:  1000	ADDITIONAL INFORMATION:

**Solution/Action:**

The following is a process to recover from an 8904A battery failure. This process accesses RAM addresses and as a result, may cause instrument failure if used improperly.

- Turn the 8904A OFF
- Turn the 8904A ON
- Press the following keys in the EXACT order given. If an error is made, turn the 8904A OFF and start over again.
  - SHIFT, SERVICE, SHIFT, f4, 0, 9, 2, 4, 4, 8, SHIFT, SERVICE
  - NEXT, NEXT, NEXT, f1, 4, 0, 0, 0
  - Press (DOWN) arrow until Addr=3FFD (3 strokes)
  - f2, 0, A
  - Press (UP) arrow until Addr=3FFE (1 stroke)
  - A, E
  - Press (UP) arrow until Addr=3FFF (1 stroke)
- 6, 0, f4, f4
- Turn the 8904A OFF
- Turn the 8904A ON
- Restore 8904A Serial Number per instructions given in 8904A Service Manual: "HOW TO RESTORE THE SERIAL NUMBER IN A REPLACEMENT A2 DIGITAL ASSEMBLY".
- Restore 8904A Options per instructions given in 8904A Service Manual: "HOW TO RESTORE OPTIONS 001, 003, AND 005 IN A REPLACEMENT A2 DIGITAL ASSY".