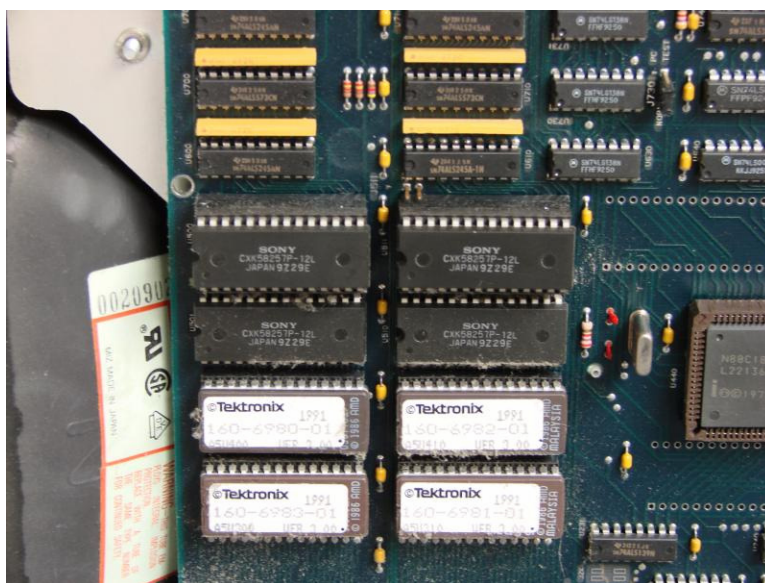


## Tek 11801 Timebase Errors

Tektronix 11801, 11802, and CSA803 sampling scopes eventually fail with an E5622 timebase error.

If you remove the bottom panel, you'll see a cluster of sram chips...



Two of them are plugged into Dallas "smart socket" battery backup things, which in turn are plugged into the board. Likely the tiny batteries have died.

You can replace the Dallas things, which is the Dallas/Maxim (discontinued!) part number DS1213. Or you can chuck the rams and the Dallas widgets and plug in two ST Micro part number M48Z35-70PC1, which is a battery-backed SRAM module. Digikey has them.

After you do this, you'll need to power cycle two or three times until it works.

There are coin-cell batteries on other boards in the main cardcage, but they seem to last a long time.

Any other tips on 11801 or sampling head repair would be appreciated. Tek never published schematics or other service info beyond board swapping.

The eeprom chips in the sampling heads seem to fail fairly often, and it would be interesting to find a way to replace them.

John Larkin      Highland Technology Inc      [jjlarkin@highlandtechnology.com](mailto:jjlarkin@highlandtechnology.com)