

86100C-10B

S E R V I C E N O T E

Supersedes:
86100C-10A

86100C Digital Communications Analyzer

Serial Numbers: (MY47440099, MY47440100, MY47440221 to MY47440645, and SG47440109 - SG47440111, MY47441255, MY47441256, MY47441303, MY47441322-MY47441324, MY47441326-MY47441328, MY47441330, MY47441331, MY47441333, MY47441336-MY47441340)

Low Voltage part loaded in 5 V application causes performance to degrade over time. Inspect for low voltage part and replace.

Parts Required:

P/N	Description	Qty.
1818-7949	Memory IC	1 (preferred) or
86100-69078	exchange acquisition assembly	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS	LABOR: 3.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: EOS	
AUTHOR:	djs	PRODUCT LINE: 8F	
ADDITIONAL INFORMATION: Revision B is an update to include additional serial numbers as indicated in the note below.			

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Situation:

A low voltage part was used in a 5 Volt application. The part will degrade with time and must be replaced. The part is U139 Look Through Memory on the Timebase Acquisition assembly, 86100-68078. There can be various failure symptoms related to the positioning of amplitude samples including module calibration failures, excessive jitter measurements, failure of look through memory self test, and extraneous amplitude samples. The erroneous samples may not appear at all settings of vertical scale and different settings for different mainframes and modules. There is not a screening test for the incorrect parts other than confirmation of the manufacturer's part number.

Note: Revision B of this service note includes the following new serial numbers: MY47441255, MY47441256, MY47441303, MY47441322-MY47441324, MY47441326-MY47441328, MY47441330, MY47441331, MY47441333, MY47441336-MY47441340

Solution/Action:

Inspect all 86100C's that come in to the service center that are within the serial number range listed and replace either U139 on the PCB or replace the entire assembly.

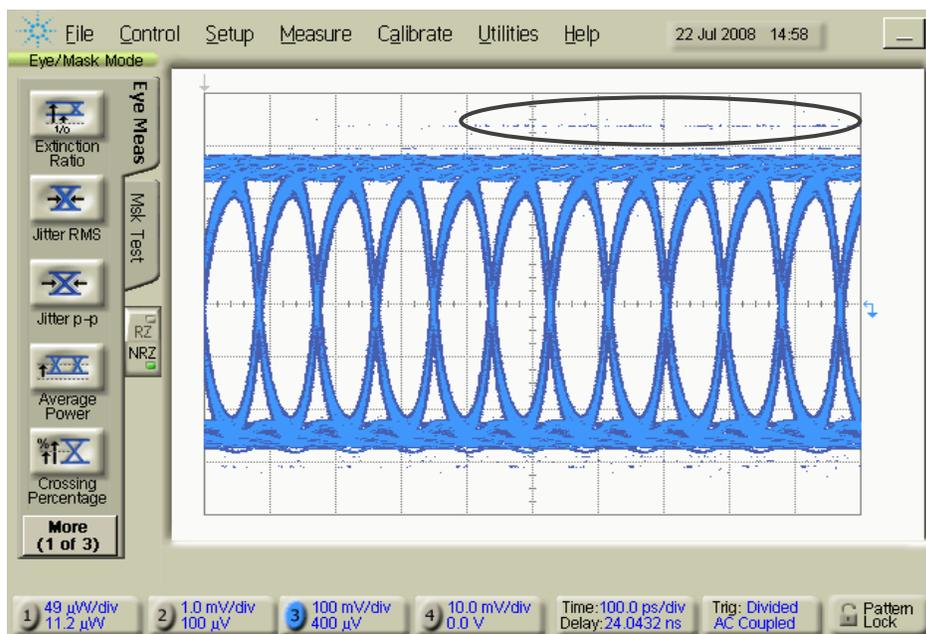
Refer to the attached picture for component location. It is labeled as LK TH MEMORY U139. All parts manufactured by and labeled Samsung are good. Parts manufactured by and labeled ISSI must be identified. The low voltage part number is IS61LV25616AL. These parts must be replaced with the 5 V part, part number IS61C25616AL.

Use a Metcal part SMTC-X148 to remove the part, and STTC-X44 to install the new IC. For the 500 series x=5, 600 series x=0, 700 series x=1, 800 series x=8

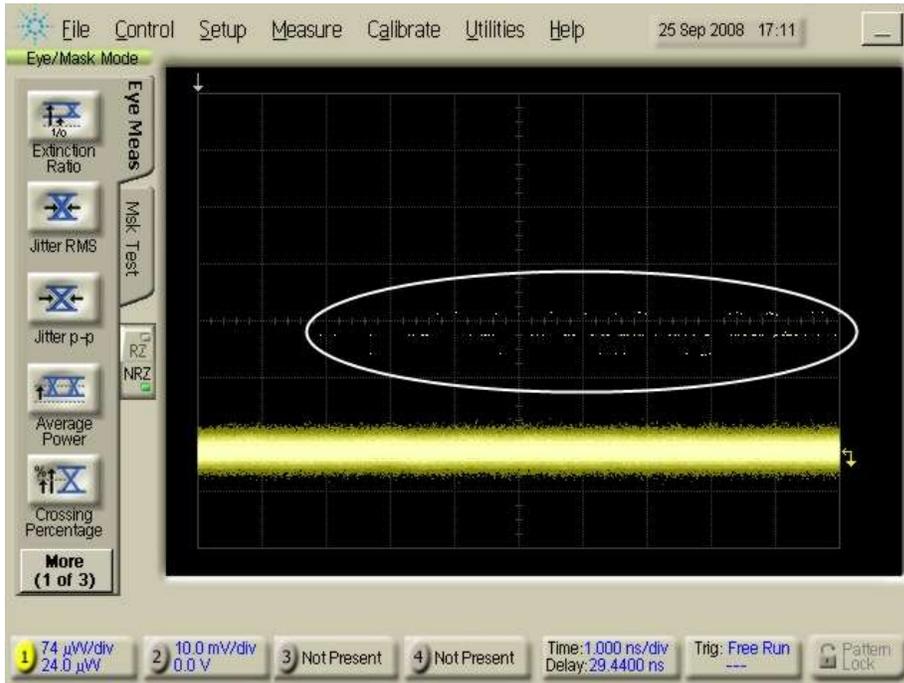
After the inspection or repair, perform the timebase adjustment and a complete calibration including all the verification tests and attach a label to the rear panel indicating "Service Note 86100C-10 Implemented".

Example screen shots of the display of erroneous amplitude samples are included below.

Extraneous data:



Extraneous data:



Incorrect ISSI part:

