

MODIFICATION RECOMMENDED

86100C-10A

S E R V I C E N O T E

Supersedes:
86100C-10

86100C Digital Communications Analyzer

Serial Numbers: [MY47440099, MY47440100, MY47440221 to MY47440645, and SG47440109 - SG47440111}

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 or
86100-69078	exchange acquisition assembly	1 or
86100-68078	new 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'S SUPPORT LIFE NO CHARGE AVAILABLE UNTIL: EOS		
AUTHOR: bmh	PRODUCT LINE: 8F		
ADDITIONAL INFORMATION:			

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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, like 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 screen for the bad parts other than the manufacturer's part number. Attached are screen shots of examples of the display of erroneous amplitude samples.

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 that includes all the verification tests.

After the inspection and repair, if necessary, is complete, please attach a label to the rear panel near the serial number, indicating Service Note 86100C-10A implemented, so we will not duplicate the inspection.



