MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

86130A-07

S E R V I C E N O T E

Supersedes:
NONE

86130A BitAlyzer Error Performance Analyzer

Serial Numbers: US41450732 and earlier.

Intermittent "Whitescreen" display on instrument startup.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
As Available.	#20-guage wire	1cm

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **MODIFICATION RECOMMENDED**			
ACTION CATEGORY:	[ ] IMMEDIATELY [ ] ON SPECIFIED FAILURE X AGREEABLE TIME	STANDARDS: LABOR: 0.75 Hours	
LOCATION CATEGORY:	[ ] CUSTOMER INSTALLABLE [ ] ON-SITE X SERVICE CENTER	SERVICE INVENTORY: [ ] RETURN [ ] SCRAP [ ] SEE TEXT	USED PARTS: [ ] RETURN [ ] SCRAP [ ] SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: End of Support	
AUTHOR: RBS	PRODUCT LINE: 8F		
ADDITIONAL INFORMATION: Factory Reference ECO00015938, PCO 74629			

Agilent Technologies

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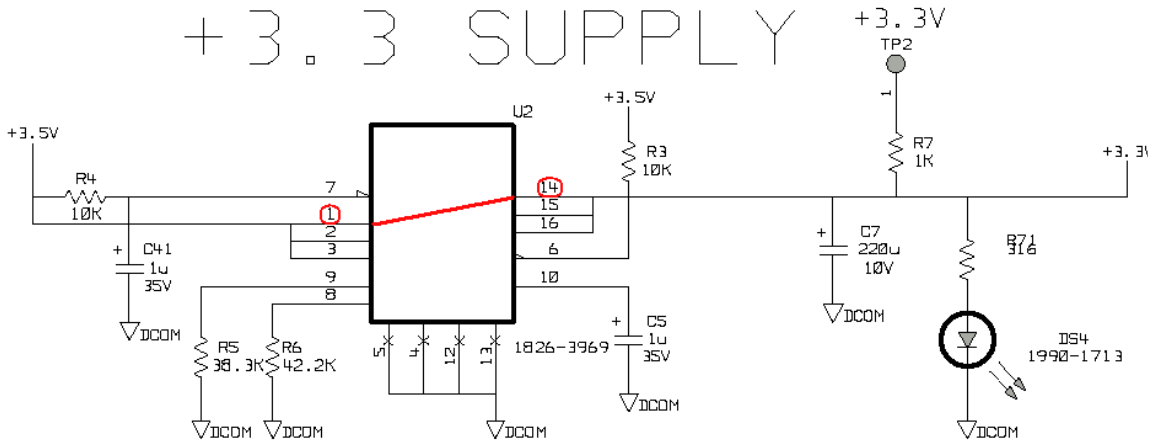
Situation:

On boot-up only, the 86130A instrument display may intermittently appear "white" and will not display any graphics. This can be caused by U2 (+3.3V HotSwap Power Manager PN1826-3969) on the A1A2 Power Distribution Assy (86130-60001 RevA) interrupting the 3.3V supply if transient current exceeds its set limit. It has been determined that the 3.3V breaker to the A5A1 CPU Board is not required since it is not capable of drawing more than 4A of current (per the CPU vendor). On an average unit it never exceeds 3A.

Whether an instrument has this condition depends on the startup current draw which varies slightly from instrument to instrument. The problem occurs on only a small percentage of instruments. However, we recommend performing this service note on all instruments in the serial number range specified.

Solution/Action:

MOD #4 POWER DISTRIBUTION BOARD
(1) Removal of U2
(2) Jumper PIN#1 to PIN#14 (20-guage wire)



1) Use a Agilent approved and verified ESD ground-strap, attached to the 86130A.
2) Place the 86130 in the "powered-off" state.
3) Remove the power cord (this removes the +5v_stby supply)
4) Remove the instrument cover and locate the A1A2 86130-60001 Power-Dist. Assembly.
5) Using side-cutters carefully (as to ***not*** dislodge PCB traces) cut each of the 14 legs on U2 (Agilent PN1826-3969, MFG PN UCC3918) Hot-Swap Manager integrated circuit.
6) Using a soldering iron, carefully remove the remaining legs from the printed-circuit-board assembly.
7) Clean any excess solder off of the remaining fourteen pads of U2.
8) Using a #20-guage wire, bridge the PIN#1-to-PIN#14 pad. Leave no excess wire over the ends of the two pads!
   NOTE: USE THIS SPECIFIC WIRE SIZE !
9) Solder the wire on either end to the two pads.
10) Test this MOD by reinserting the power-plug and powering the BERT to the "powered-on" state.
11) If the instrument powers on and the display comes on then the modification verification was successful. Attach a "MOD 4" label between "Connector P4 and the Lambda DC-DC convertor module".
12) Affix Service Note label 86130-07 to the rear of the instrument near the serial# tag. Instruments upgraded by the factory have label SN86130A-08 or later affixed to the rear.

NOTE: MODs 1-3 may not have been labeled on the A1A2 assy but are superseded by MOD4.
End.