

SN J6800A-07A

S E R V I C E N O T E

Supersedes:
SN J6800A-07

J6800A Network Analyzer

Serial Numbers: [0000A00000 / 9999Z99999]

We have determined a root-cause of the Network Analyzer failures involving unstable operation of the acquisition system after being repaired previously.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
5065-9720	Exchange CPU Carrier	1
5065-6274	Host I/O power cable	1
0950-4105	Power supply	1
3050-2187	Washer, Flat	4

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input 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	SERVICE INVENTORY:	RETURN SCRAP <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	RETURN SCRAP <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: DM		AGILENT RESPONSIBLE UNTIL: February 08	
PRODUCT LINE: 2J			
ADDITIONAL INFORMATION:			

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April 5, 2007

Situation:

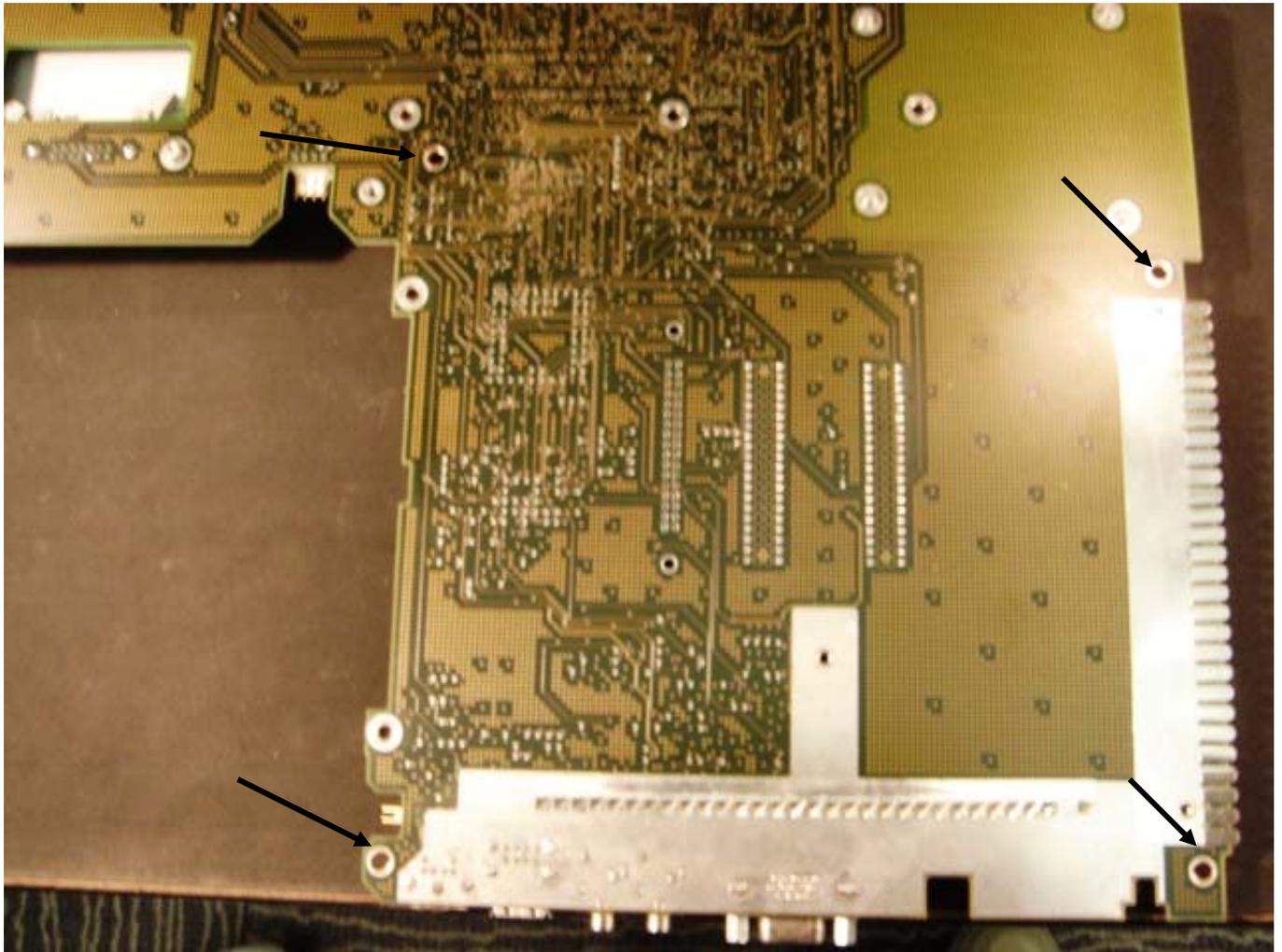
A poor mechanical design in the method used to attach the acquisition system and the CPU carrier card to the bottom chassis of the J6800A can cause multiple failure modes. The most obvious is cold operation seems normal, however as the unit warms up the operation of the acquisition system starts to fail for no apparent reason.

The CPU carrier card has 4 mounting holes that are used to hold the acquisition cards to the chassis. (See photo #1) After some extended period of time, the threads on these screws cuts through the plating of the hole and wears away the PCB material, exposing the copper inner-layers.(See photo #2) These exposed copper layers can short 3.3v or 5.0v to ground. This causes excessive current draw, stressing the power supply and often scorching the Host I/O power connector itself. (See photo #3)

Solution/Action:

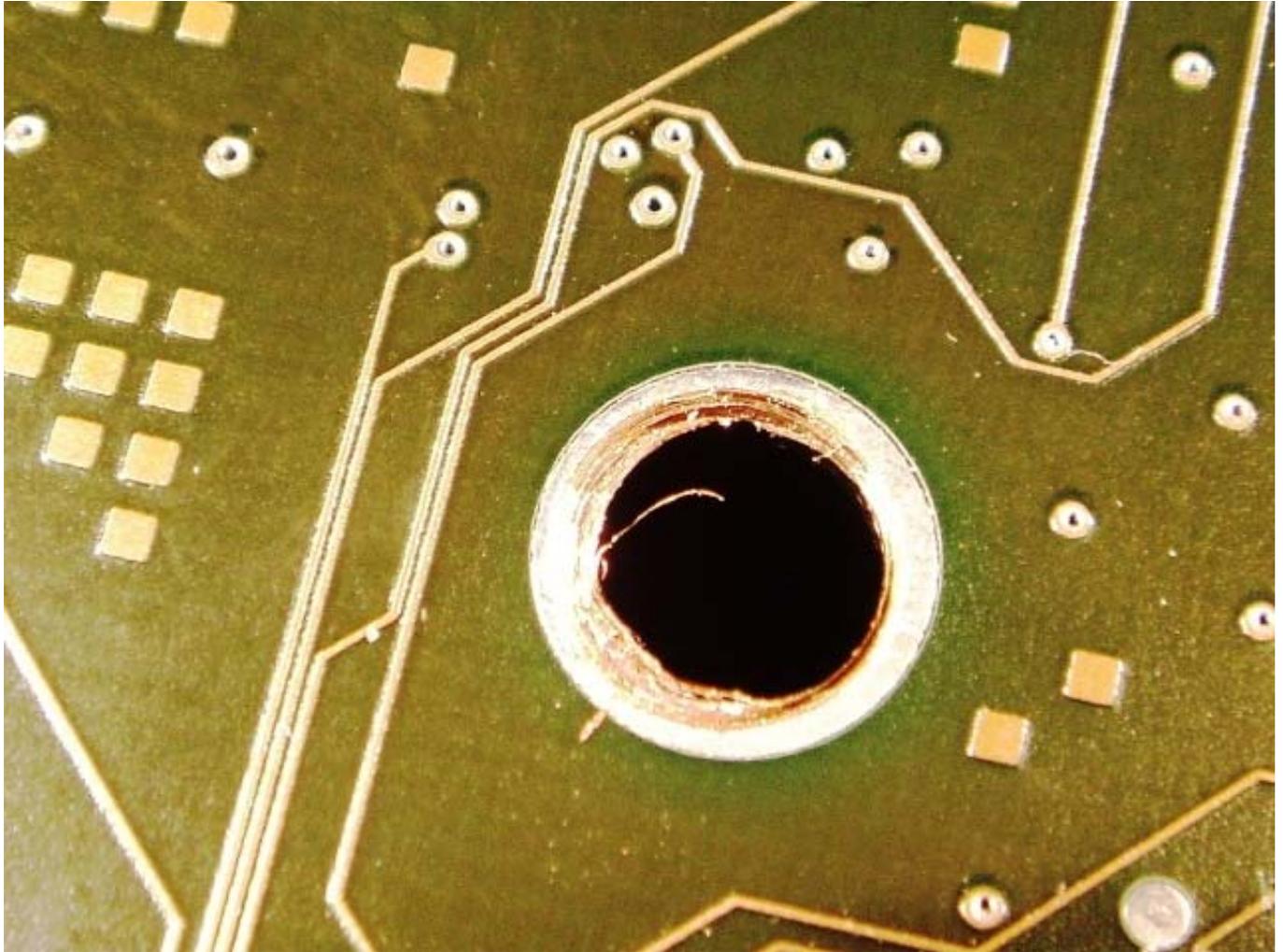
Replace all damaged parts, re-assemble unit using the washers(3050-2187) and test per J6800A service manual.

Photo #1 showing placement of mounting holes (4)



Use washers (3050-2187) with long mounting screws when re-assembling.

Photo #2 Close up of mounting hole showing copper pulled down into hole.



Discolored(burnt) Host I/O cable

