MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

SN J6800A-07

S E R V I C E N O T E

Supersedes:
NONE

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 or Customer

Parts Required:

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

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	[[]] IMMEDIATELY X ON SPECIFIED FAILURE [[]] AGREEABLE TIME	STANDARDS: LABOR: 3.0 Hours	
LOCATION CATEGORY:	[[]] CUSTOMER INSTALLABLE [[]] ON-SITE X SERVICE CENTER	SERVICE INVENTORY: RETURN [[]] SCRAP X SEE TEXT	USED PARTS: RETURN X SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: February 08	
AUTHOR: DM	PRODUCT LINE: 2J		
ADDITIONAL INFORMATION:			

Agilent Technologies

February 23, 2006

Situation:

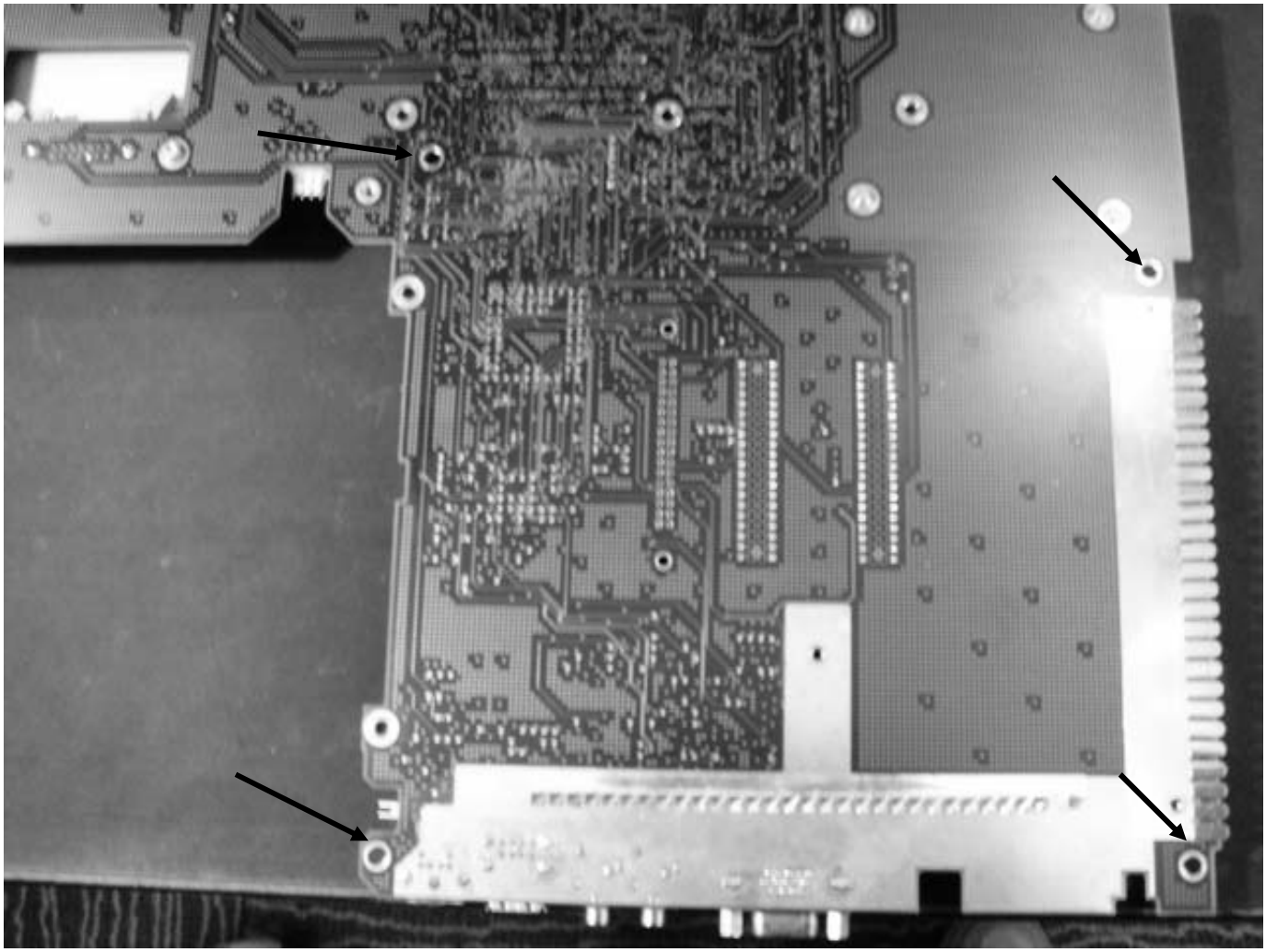
A poor mechanical design in the method used to attach the acquisition system and the CPU carrier card to the bottom chassis of the J6800A can cause multiple failure modes. The most obvious is cold operation seems normal, however as the unit warms up the operation of the acquisition system starts to fail 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:

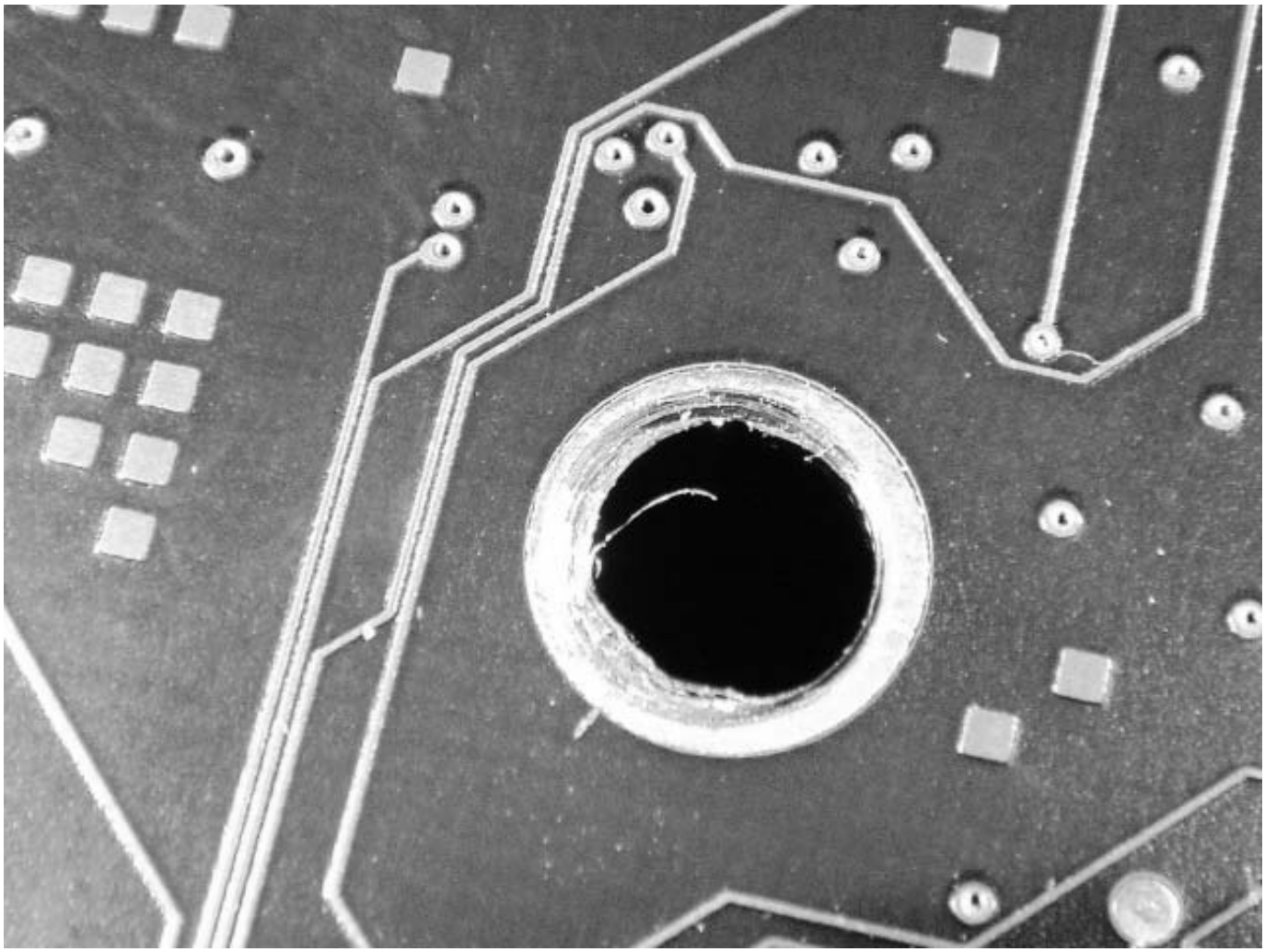
Replace all damaged parts, re-assemble unit using the washers(3050-2187) and test per J6800A service manual.

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