

S E R V I C E N O T E

SUPERSEDES: 83220E-02A

83220A/E DCS1800/PCS1900 Test Set**Capacitors being operated out of specification on A4 board****Serial Numbers:**

0000A00000 / XXXXXU04061 83220E

0000A00000 / XXXXXU00613 83220A

To Be Performed By: Agilent-Qualified Personnel**Parts Required:**

P/N	Description	Quantity
0180-1746	15uF +/-10% 20V rating	2

Situation:

It has been identified that two capacitors on the 83220-60004 A4 are being operated out of specification. This may result in either of the capacitors going short circuit and the unit will appear dead.

There have only been a small number of instances where the fault has occurred however both capacitors must be replaced to ensure future integrity.

Continued

DATE: June 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☐ ON SPECIFIED FAILURE ☒ AGREEABLE TIME	STANDARDS: LABOR 2.0 Hours	
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ☒ SERVICE CENTER	SERVICE INVENTORY: ☐ RETURN ☒ SCRAP ☐ SEE TEXT	USED PARTS: ☐ RETURN ☒ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: November 1999
AUTHOR: JKR	ENTITY: E600	ADDITIONAL INFORMATION:	

All 83220's with serial numbers of later than stated above will be fitted with the correct capacitors, as will any units that have been returned to the division since September 1998. The defective type of capacitors can be identified by their yellow colour while the correct type are silver in colour. However all capacitors should be checked for the correct rating and if in any doubt replaced. The correct rating should be 20V.

Solution / Action:

- 1) Remove the top and bottom covers.
- 2) Disconnect connectors J1-J10 for 83220E's and J1-J16 for 83220A's.

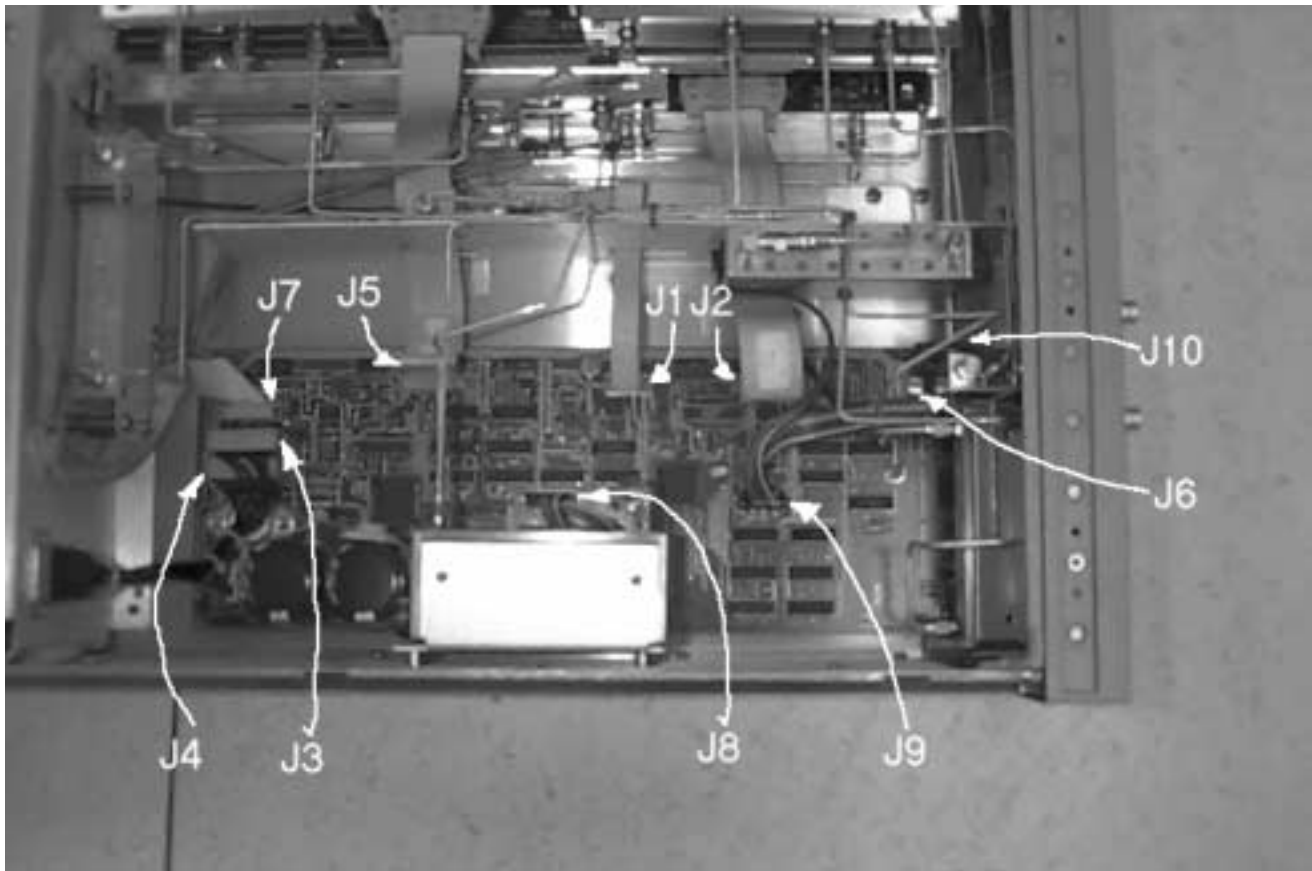


Figure 1. Connectors

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- 3) Disconnect semi-rigids from attenuator.
- 4) Remove four screws holding attenuator to side panel and remove attenuator.
- 5a) Non option 010 units - disconnect all semi-rigids that connect to front panel.
- 5b) Option 010 units - disconnect semi-rigids from A1J2(a), front panel 'Connect to 8922 Aux RF Out'(b) and front panel 'Connect to Aux RF In'(c).

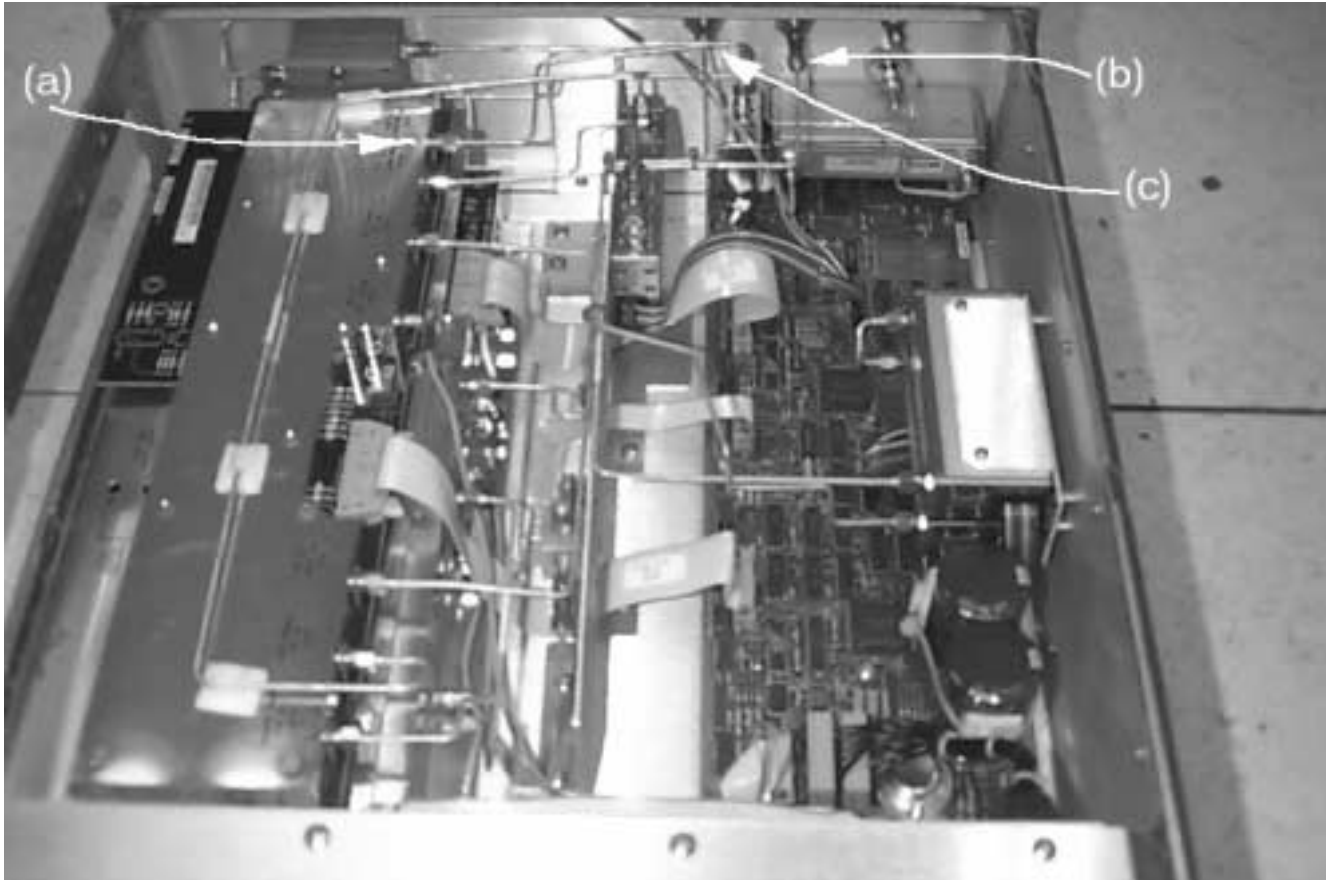


Figure 2. Semirigids

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Remove screws from both ends and underside of front panel, then carefully remove front panel.

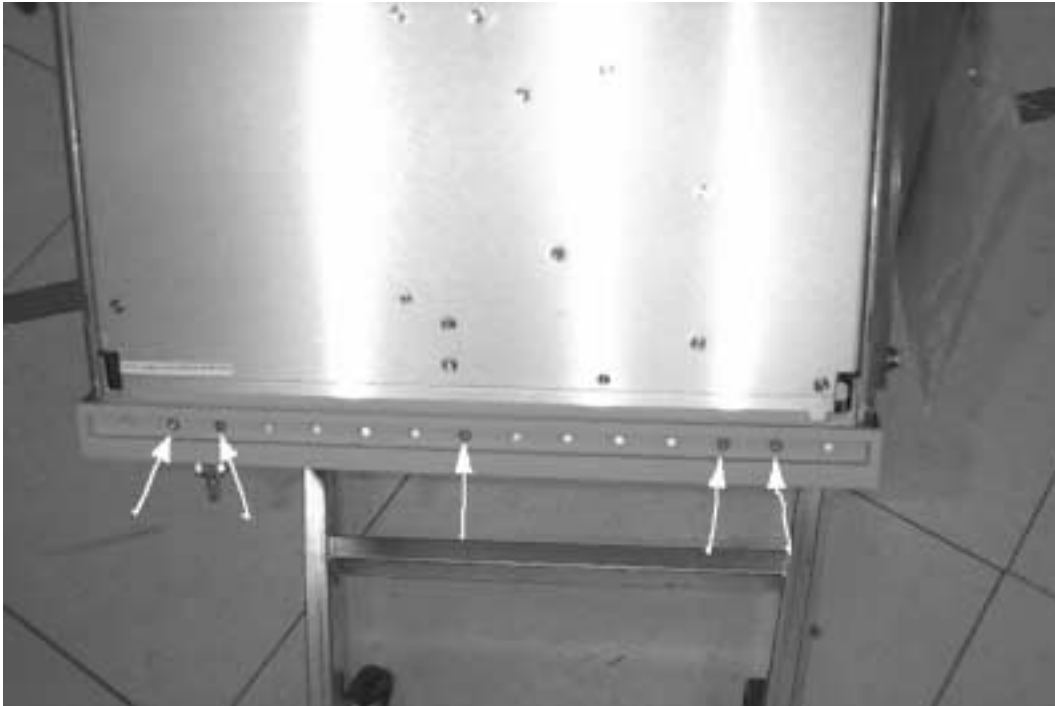


Figure 3. Screw1

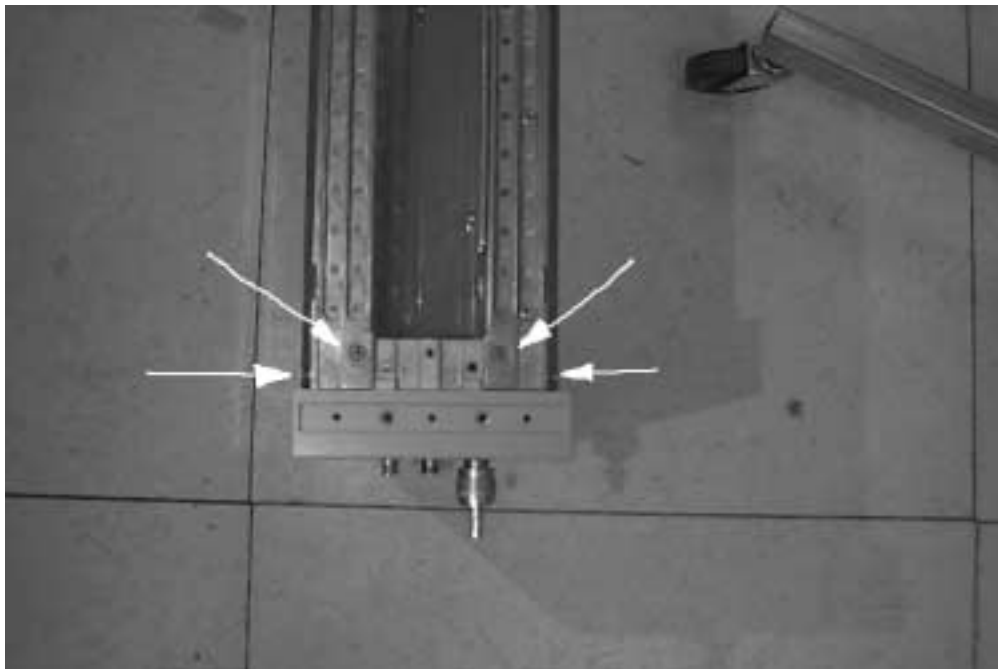


Figure 4. Screw2

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- 6) Remove the five screws holding the A4 in position.
 - 7) Slide the A4 forward then carefully lift out.
 - 8) Replace capacitors C9 and C10 then refitting is a reversal of the procedure.
- Ensure that all semi-rigids are tightened to 6lb-in.



Figure 5. Capacitors

- 9) On completion of the modification the unit should be verified on STE9000.