

**4.1.1 General Procedure Notes**

- a. Set Power OFF before attempting to dismantle the instrument (for dismantling and reassembly instructions consult *Section 3*).
- b. If Top ground/guard assembly is removed subsequent testing with Power On should be completed in less than 5 minutes to avoid overheating.
- c. After servicing ensure that all connections have been made (*Section 3, Fig. 3.6*) and that Top and Bottom shields and covers have been replaced. Leave assembled instrument powered-up for at least 1 hour before carrying out any adjustment.
- d. Although replacement assemblies are set up by the manufacturer, the internal adjustments recommended in *Table 4.1* must be carried out to ensure correct operation. These adjustments need to be carried out when the assembly is in the user's instrument, in order to account for interaction between assemblies.

**WARNING**

**HAZARDOUS ELECTRICAL POTENTIALS  
ARE EXPOSED WHEN THE INSTRUMENT  
COVERS ARE REMOVED.**

**ELECTRIC SHOCK CAN KILL!**

**CAUTION**

AFTER ANY MAINTENANCE OPERATIONS WHICH INCLUDE REMOVAL OF TOP OR BOTTOM GROUND ASSEMBLY, CARRY OUT THE FULL SELF-TEST SEQUENCE (*Section 2.3*) BEFORE RETURNING TO NORMAL USE.

DAMAGE CAUSED BY UNAUTHORISED REPAIRS OR MODIFICATIONS CAN INVALIDATE INSTRUMENT WARRANTY. CHECK THE WARRANTY DETAILED IN THE "TERMS AND CONDITIONS OF SALE". IT APPEARS ON THE INVOICE FOR YOUR INSTRUMENT.

Category C		Adjustment Following Replacement of PCBs		
PCB Assembly	Adjustments	Procedure (Section 4)	Pre-cal (Sect. 1.4)	Routine cal (Sect. 1.2)
Terminal	Capacitive Load Test	4.6	-	Full
Digital	-	-	Full	Full
Reference Divider	-	-	Full	Full
DC	Capacitive Load Test	4.6	-	Full
Sine Source	-	-	-	Full
AC	Capacitive Load Test Sense Amp zeros	4.6 4.10	-	Full
Current/Ohms Assembly	Quiescent Current Compliance Resistance	4.7 4.8 4.4	-	All I ranges All I ranges Ohms
Power Amp	100V PA bias	4.5	-	-
Mother	Common-mode null	4.9	Full	Full
Out-guard PSU	Common-mode null	4.9	-	Full
Heatsinks +ve & -ve	100V PA bias	4.5	-	-
Power supply Current Heatsinks	Quiescent Current	4.7	-	All I ranges
HF or LF Transformer	-	-	-	1kV Range
Mains (line) Transformer	Common-mode null	4.9	-	-

**TABLE 4.1c.**