

Model 181 Addendum

INTRODUCTION

The following information is supplied as a supplement to this manual in order to provide the user with the latest improvements and corrections in the shortest possible time. It is recommended that this information be incorporated into the Service Manual immediately.

The following changes to the Model 181 Digital Nanovoltmeter have been made to eliminate possible radio frequency interference (RFI) related problems. These changes include the addition of aluminum shields to the instrument to limit RFI effects.

IEEE-488 interface cables with shielded connectors should be used with the Model 181. Two types are available from Keithley: Model 7007-1 (1m/3.3 ft.) and Model 7007-2 (2m/6.6 ft.).

In addition, the nanovoltmeter preamp board has been modified to maintain input resistance of $>10^9\Omega$ with up to 2.2V on mV ranges.

Table 1. Parts List Additions

Circuit Desig.	Description	Schematic Dwg. No. and Location	PC Board Item No./Location	Keithley Part No.
—	Front Panel Shield	—	—	181-303
—	Top Cover Shield	—	—	617-322
—	Ground Clip	—	—	181-304
—	RFI Label ("RFI Shielding Installed")	—	—	MC-410
L301	Choke (Rear Panel Assembly)	30585/A1	PC-529	CH-29
FL101	Line Filter	30583/A4	—	LF-2
L102	Choke	30583/D5	PC-531:224/G6	CH-29
J1011	Pin	30585/A1	PC-529:129/B1	CS-357
J1012	Pin	30585/A2	PC-529:130/A1	CS-463
—	Connector	30586	PC-526:34/C3	CS-339-3
VR405	Zener Diode	30586/A1	PC-526:120/D3	DZ-67
VR406	Zener Diode	30586/A2	PC-526:121/D3	DZ-67
U404	Integrated Circuit	30586/D1	PC-526:110/C3	30154
U406	Integrated Circuit	30586/D5	PC-526:112/C3	30167

Also attached is Figure 5-23, an exploded view of the Model 181. This drawing should go at the end of the Maintenance Section.

