

Keithley 2001 repair - Bug #1185**Repair status for very first 2001 unit**

04/11/2015 09:41 PM - tin

Status:	Closed	Start date:	04/11/2015
Priority:	Normal	Due date:	
Assignee:	tin	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	Keithley 2001 #1		

Description

Analog board A39754
 Digital board A10142 A08

Self-test issues:

Test	A/D input	Required value
309.1		
401.1		+/-1m
402.1		27 - 37 m
403.1		-4m - 6m
405.2		
405.4		
405.6		
405.8		
406.6		

Sometimes

407.1
407.2
407.3
409.6
410.1
411.1
411.2

Recap and clean board

History

#1 - 04/12/2015 04:58 AM - tin

Replaced all caps on analog and digit board
 Replaced avalanche diodes for bootstrap supply (CR109-CR112)
 Desolder U505, U507, U509, clean PCB , solder back.
 U508 soldered new 74F00
 Replaced CR514,CR513
 Replaced Q305 from donor board

Assembled unit, no issues, self-test pass ok.
 Unit require calibration (9.9999961V shows as 9.898215V)

#2 - 04/13/2015 12:27 AM - tin

Update repair article with data in <http://www.eevblog.com/forum/testgear/restoration-glory-of-keithley-2001-dmm/msg650609/#msg650609>

#3 - 06/07/2016 01:20 AM - tin

- Status changed from In Progress to Closed