
Technical Information Bulletin

SLM Electronics, Inc. Saint Louis, Missouri, USA

October 11, 2005

#TIB0015

Purpose:

This Technical Information Bulletin (TIB) provides guidelines for modifying the output section of the SVP-CL circuit.

Description:

The SVP-CL has been modified to provide increased output level. This TIB describes the process for performing this modification.

Serial Numbers Affected:

SVPCLa

D5JDQ30001 – D5JDQ79999

SVPCLaJ

D5KJQ30001 – D5KJQ79999

SVPCLaU

D5LUQ30001 – D5LUQ79999

SVPCLaW

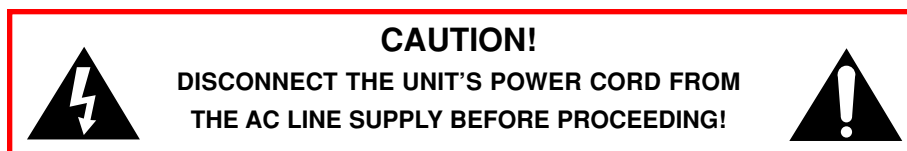
D5MWQ30001 – D5MWQ79999

Parts Needed:

- (1 each) 100k ohm 1/4W 5% resistor (SLME #76-104-01)
- (2 each) 6.81k ohm 1/2W 1% resistor (SLME #77-682-02)
- (1 each) 825 ohm 1/2W 1% resistor (SLME #77-821-02)
- (1 each) 39k ohm 2W 5% resistor (SLME #78A393-21)
- (1 each) 68k ohm 1/4W 5% resistor (SLME #76-683-01)
- (1 each) 250k ohm linear potentiometer (SLME #70-306-70)

Tools Needed:

- #2 phillips screwdriver
- needle nosed pliers
- 3/8", 7/16", 1/2" nut drivers
- soldering iron / solder
- solder wick
- X-Acto knife



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Action:

1) Remove the 10 top cover screws (see Figure 1).



Figure 1: Remove top cover screws

2) Remove the knobs and mounting nuts from the front panel pots. Remove the mounting nut from the input jack (see Figure 2).

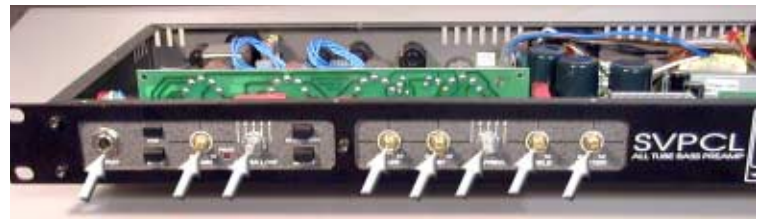


Figure 2: Remove front panel knobs, nuts

3) Disconnect the wiring harnesses from J11, J10, and J14. Remove the four PCB mounting screws (see Figure 3).



Figure 3: Disconnect harnesses, remove PCB screws

5) Locate, unsolder and remove the following components: R57, R72, R70, R65, R64, R68, and P5 (see Figures 4 and 5). Use the X-Acto knife to cut away any RTV shock mount material which may be in the way. ***Remove only enough of the material to allow removal of the affected components!***

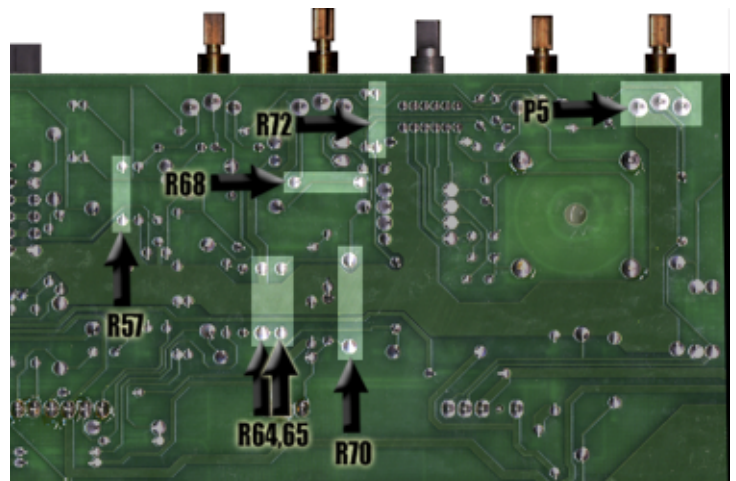


Figure 4: Locations of components to remove - also see figure 5

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6) Install the replacement components in the proper locations as indicated in the chart below. Mount each component as flush to the PCB as possible. Clip and solder all resistor leads. Solder the potentiometer leads.

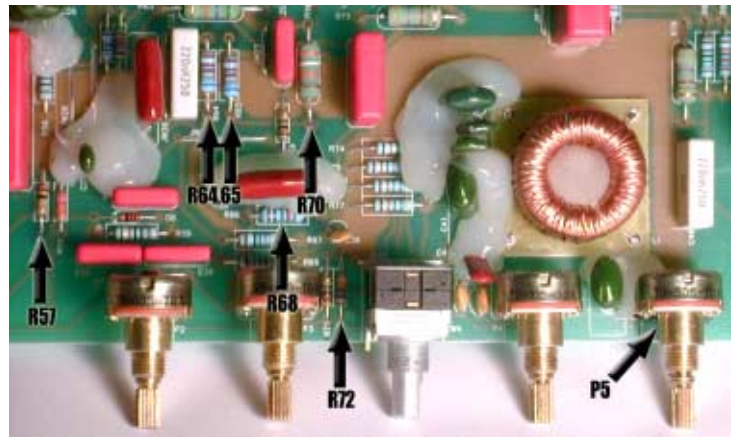


Figure 5: Locations of replacement components - also see Figure 4

LOCATION	DESCRIPTION	SLME PART NUMBER
R57	100K OHM 1/4W RESISTOR	76-104-01
R64	6.81K OHM 1/2W RESISTOR	77-682-02
R65	6.81K OHM 1/2W RESISTOR	77-682-02
R68	825 OHM 1/2W RESISTOR	77-821-02
R70	39K OHM 2W RESISTOR	78A393-21
R72	68K OHM 1/4W RESISTOR	76-683-01
P5	250K OHM LINEAR POTENTIOMETER	70-306-70

7) Reinstall the PCB into the chassis: replace the nylon washers onto SW2 and SW4, replace the lock washer onto the input jack. Align the PCB carefully before replacing the pot and input jack hardware (refer to Figure 2). Install but do not tighten the PCB mounting screws (refer to Figure 4). To assure the PCB is properly reinstalled, tighten the input jack and pot hardware before tightening the PCB mounting screws.

8) Reconnect wiring harnesses J11, J10, and J14.

9) Replace all pot and switch knobs.

10) Reinstall the top cover - the vent holes must go over the tubes, with the foam pad towards the inside of the unit.