

Supplementary Instructions for Switchable RC or LED Cathode Bias

If you have received the kit new, please read this first, before beginning assembly, as some of the original steps in the Assembly Manual have been modified.

If this will be an after-build modification, just follow through these instructions and you will see what needs to be done.

You will need the following items to perform this modification:

- One (1) DPDT toggle switch (the miniature style will work fine)
- Four (4) standard 2V green LEDs: Vishay TLHG5205 or equivalent

Solder two of the LEDs together, anode-to-cathode, to form 2 pair of series strings.

A) Refer to the attached drawing.

1. Install the new DPDT toggle switch. The most convenient location is between the driver tube and the UL/Triode switch, between the two turret boards. The switch can also be installed to the left of the driver tube, or on the front panel. Just extend the wires as necessary, but keep them as short as possible.

B) Refer to steps 10, 11, & 12 on page 21 of the assembly manual and the attached drawing.

1. The yellow wires do not connect to the turret board for this modification.
2. Cut the appropriate lengths of yellow wire to route from the driver tube to the toggle switch.
3. Solder one end of each of the wires to pin 8, & pin 3 of the driver tube as indicated in steps 10 & 12 on page 21 of the assembly manual.
4. Solder the other end of each of the wires to one of the center terminals of the new toggle switch as shown in the attached drawing.

C) Refer to Step 27 on page 26 of the assembly manual and the attached drawing.

1. Only the negative side of the 100uF capacitor along with one end of the 1K resistor will be connected to the turret boards. When these are soldered in place, the positive side of the capacitor and the other resistor lead should point toward the new toggle switch.
2. To the same negative turret terminal as above, solder the negative end (cathode) of the LED strings, also oriented towards the new toggle switch.
3. Solder the positive end (anode) of the LED strings to the new toggle switch as shown in the attached drawing.
4. Solder the positive of the 100uF capacitor along with the remaining 1K resistor lead to the toggle switch as shown in the attached drawing.

OPERATION

1. Do not change the switch position with the amplifier powered on.
2. Power off the amplifier, wait 5 seconds, change the switch position, then power on the amplifier.

With the switch and wiring oriented as shown in the drawing:

LED cathode bias: Toggle switch flipped towards the front of the amplifier.

RC cathode bias: Toggle switch flipped towards the rear of the amplifier.