

Dynaco PAS 2, 3 & 3X Selenium Filament Rectifier Replacement Instructions

PAS Preamplifier PC-6 Rev 0

This document describes the specific instructions and steps associated with the removal and replacement of the original selenium rectifier used to rectify and provide a source of DC voltage to power the system's tube filaments. This document is applicable to Dynaco PAS series of vacuum tube preamplifiers (PAS 2, 3 & 3X).

This procedure requires basic soldering skills and tools outlined in the following documents (available from our web page www.curcioaudio.com):

- a. Soldering Tutorial (CAE Tech Note # 2)
- b. Recommended Tools & Test Instruments (CAE Tech Note # 3)

Please take the time to familiarize yourself with all of these documents in particular Tech Note # 2.

Refer to figure 1 and proceed with the following steps.

- 1. Disconnect your PAS preamplifier from the AC mains and allow the internal voltages possibly stored in the electrolytic capacitor to discharge over a 20 minute period.
- 2. Remove the four screws holding the top cover and remove the top cover.
- 3. Next remove the bottom plate exposing the foil side of both printed circuit cards (PC-5 & PC-6).

We will first remove the original selenium rectifier. Referring to figure 1, the selenium rectifier is the large (approximately 1-1/2") square device located towards the rear of the preamplifier and mounted into place using one long 8-32 machine screw atop two cylindrical capacitors.

- 4. Referring to figure 1, first remove all of the wires connected to terminals labeled 1 through 4. As you remove each wire, label it according to its associated terminal number. NOTE For clarity <u>not all of the original wires are shown</u> nonetheless, you should label each wire removed with its associated label number.
- 5. Loosen the 8-32 nut that secures the 1 pin terminal and the selenium rectifier and remove and discard both items. You will be retaining the two capacitors and securing bracket.
- 6. Locate the new 5 pin terminal strip (Radio Shack # 274-688 or equiv) and mount as shown in figure 2. NOTE It will probably be necessary to drill out the mounting hole for this bracket to clear the 8-32 screw.
- 7. Obtain and install the two new 1N4006 diodes (Radio Shack # 276-1003 or equiv) as shown in figure 2. NOTE these diodes are polar so be sure to observe the correct orientation as shown in figure 2.
- 8. Re-connect each of the original wires to the corresponding terminal numbers as shown in figure 2.
- 9. Replace the bottom plate and top cover and secure with the four screws.



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