

# Installation Filter Board AL12 Series Ameritron

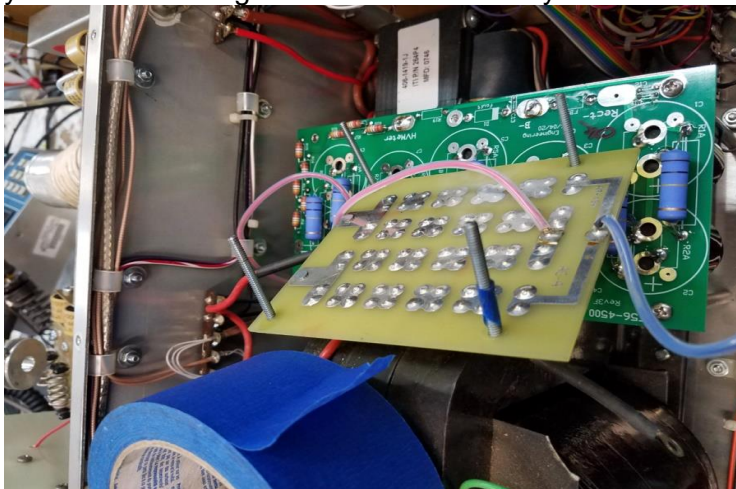
Following a few simple steps board installation is straight forward.

Rev9/21/22

- 1.) Remove the power transformer and set it aside
- 2.) Remove the four long #2 Phillips screws holding the rectifier board
- 3.) Unsolder the black and red from the filter board and set the rectifier board aside
- 4.) Remove the two short Phillips screws holding the filter board
- 5.) Unsolder the red/white HV metering and gray B- leads
- 6.) If your amplifier has an Ameritron GOP or timer board (AL1500) just lay it out of the way
- 7.) Remove the old filter capacitor board

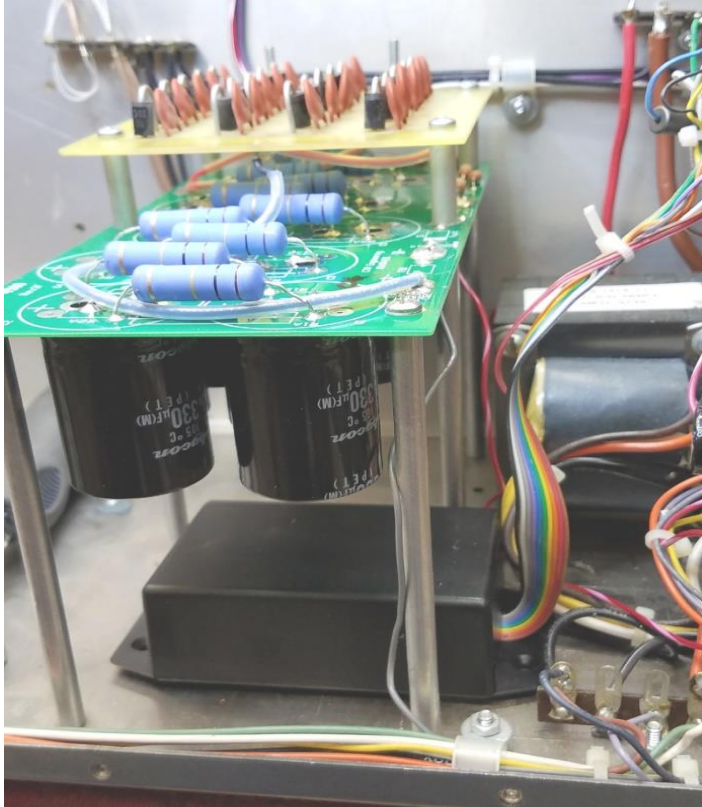
## To install the new board:

- 1.) Make sure the tall spacers for the filter capacitor board are all tight at the chassis bottom end
- 2.) Install the new board with Rect- (negative end) toward the outside
- 3.) Install the two short screws where removed. Also replace the factory timer/GOP board if used. Even though mounting dimensions are exactly the same, the spacers sometimes tilt a little. If the spacers do not line up just push on the spacers to get the screws started
- 4.) Make sure the back four holes line up. You can tweak the spacers slightly by pushing them. They will take a "set" if they are tight like they should be
- 5.) Solder the red HV wire from the tube side and from the diode board on. It doesn't matter which hole is used as long as they both go to "HV+" on the filter board. The rectifier (-) black wire can solder later.
- 6.) Use a few wraps of masking tape to help hold the spacers to the long screws. This will save you some fumbling with this hardware as you bolt the rectifier board down



7.) Reinstall the GOP board if you removed one. It fits as it did before. (See end instructions)

8.) Unlace or untie the gray and red/white from the front spacer. The Red/white should pull back out of the harness. If not, cut the wire ties necessary so it pulls back. The red/white runs up the center front spacer to the HVM pad



9.) The black rectifier negative Rect- and gray B- solder in last. The black rectifier wire can be trimmed to length or dressed around out of the way. Heavy Teflon sleeve protects the black wire and the red wires. The lead dress is not especially critical.

10.) The gray wire is B-. It connects to the B- pad.

Doublecheck wiring and install the transformer. (AL1500 and special notes follow.)

## **1500 Amplifiers, GOP, or QSK Boards**

All accessory boards will fit back in their original locations.

The 1500 timer/overload or GOP boards have a ground connection to make chassis contact via a board mounting pad associated with metal spacer. The shortest and quickest way to ensure a ground is to connect the black wire to a solder lug positioned like this. All other connections are normal to all units.



## QSK Tap Point

The Ameritron QSK board requires a few hundred volts at very low current for bias. This voltage is not critical as long as it does not exceed 450 Vdc. The suitable tap point is at the top (+) positive terminal of C1 or the bottom (unmarked) negative terminal of C2.

