

# AL811(and H) Proper Installation TPS3 and TPS4

Rev011/22 W8Jl

Parasitic suppressor board installation in the AL811 series is simple but requires care. There is very high voltage and modest current in that board. Be careful!

The TPS3 and TPS4 replacement boards update earlier Ameritron AL811 amplifiers. It is also an improvement over MFJ/Ameritron boards.

The early Ameritron 811 series used a stamped brass strip and simple traditional inductor-over-resistor suppressors using carbon composition resistors. With enough inductance to be stable these suppressors ran hot on 10 meters. The earliest AL811 did not use a solder lug on the plate choke's top. The blocking capacitor and choke lead wrapped and soldered to the brass strip. They both must be unsoldered.

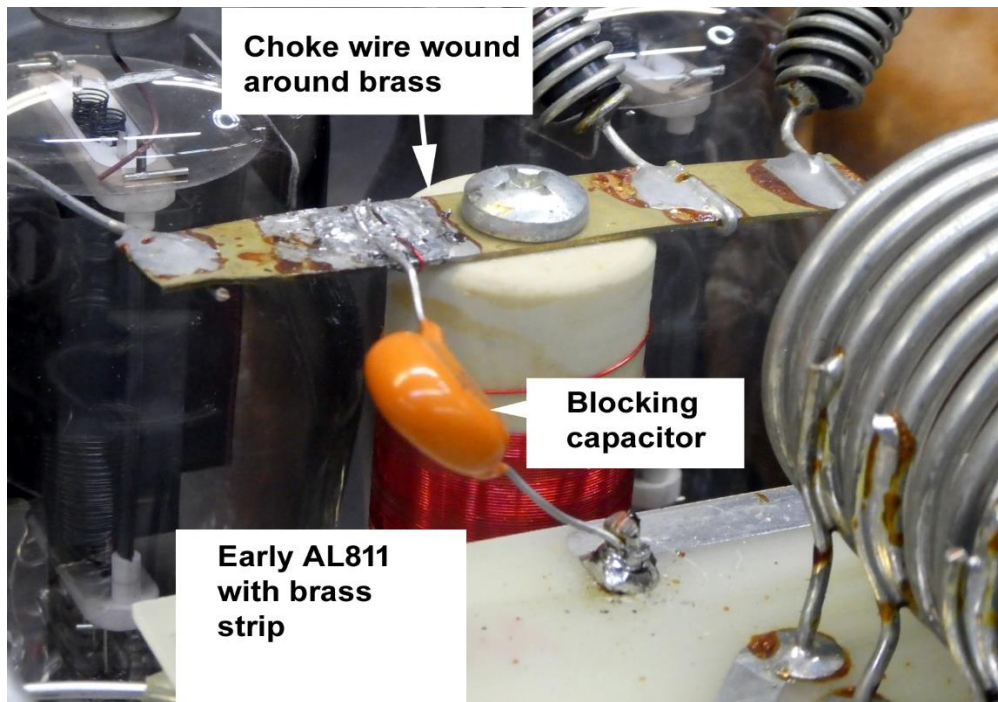
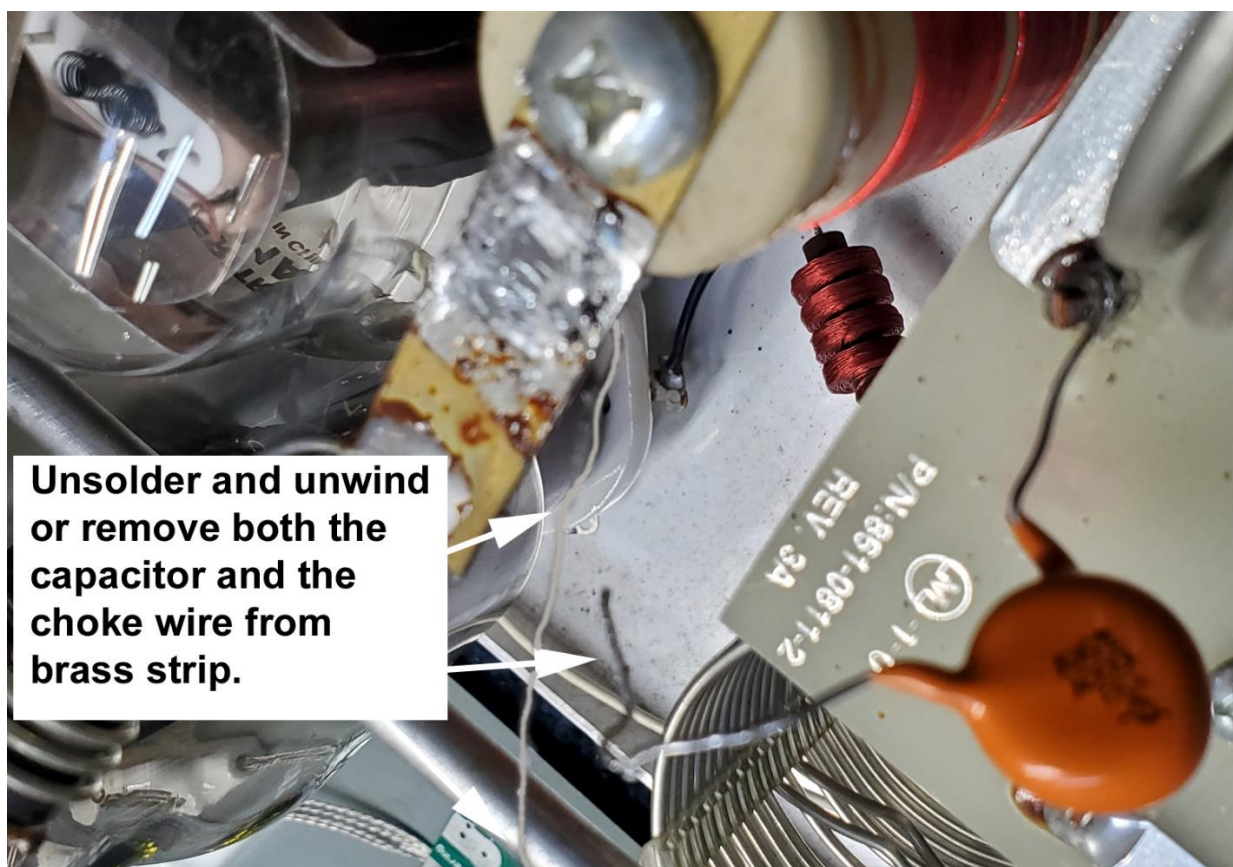
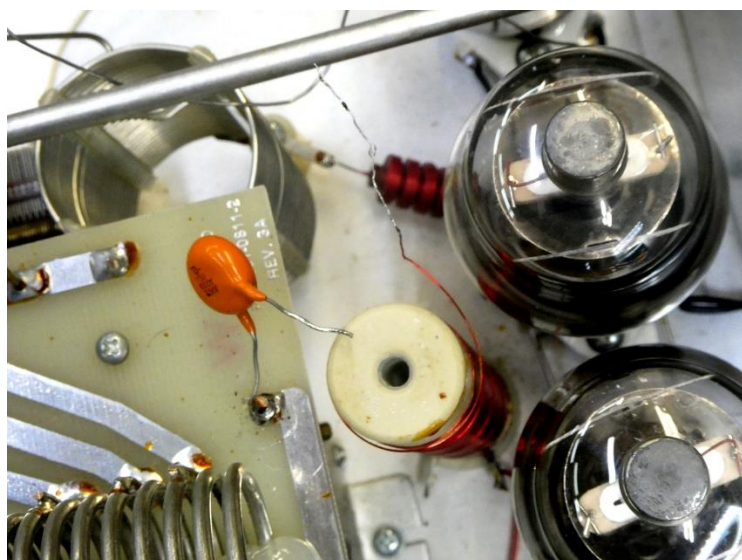


Figure 1 early 811 no lug

Using a large soldering iron or gun, carefully unsolder and straighten the capacitor and the thin choke wire.

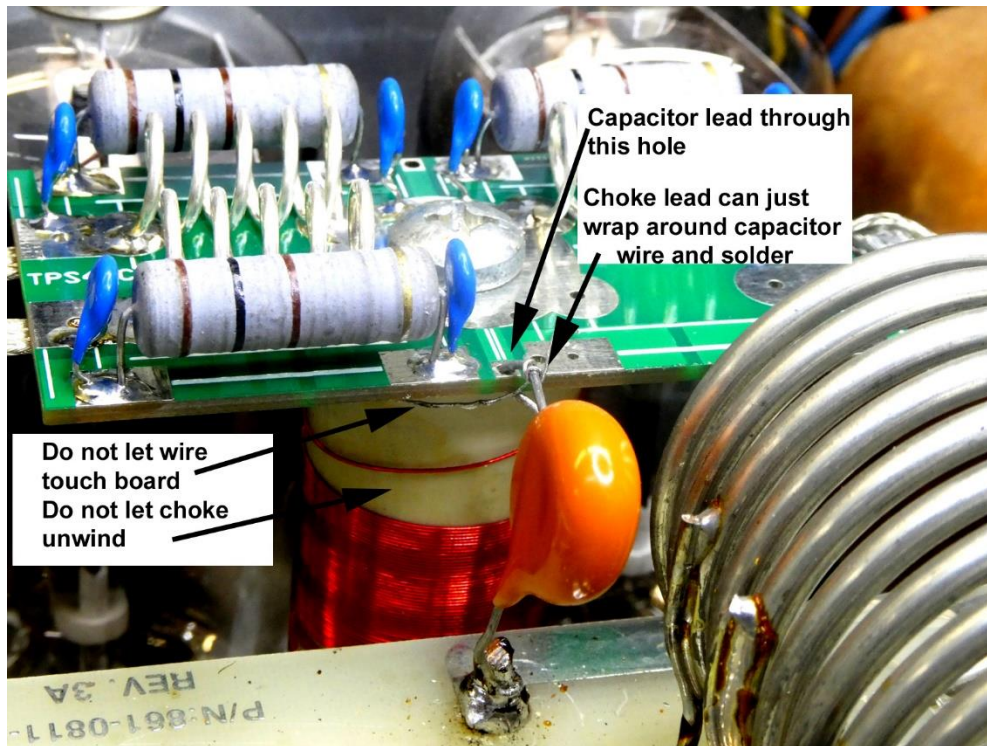


Prepped AL811 (early) ready for new TPS3:

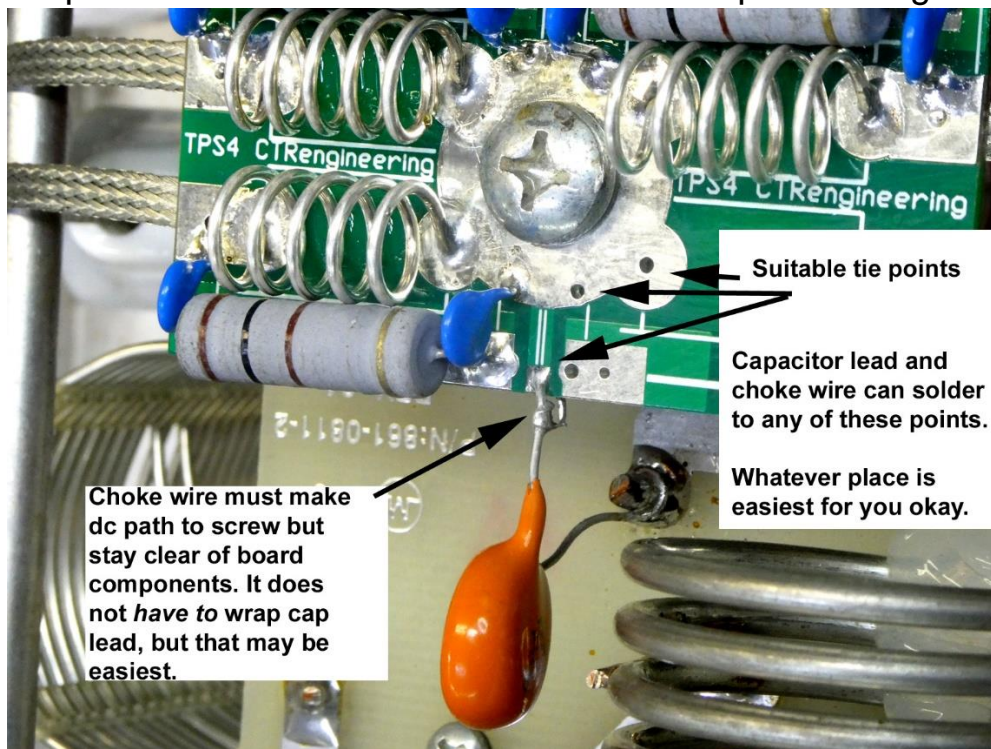




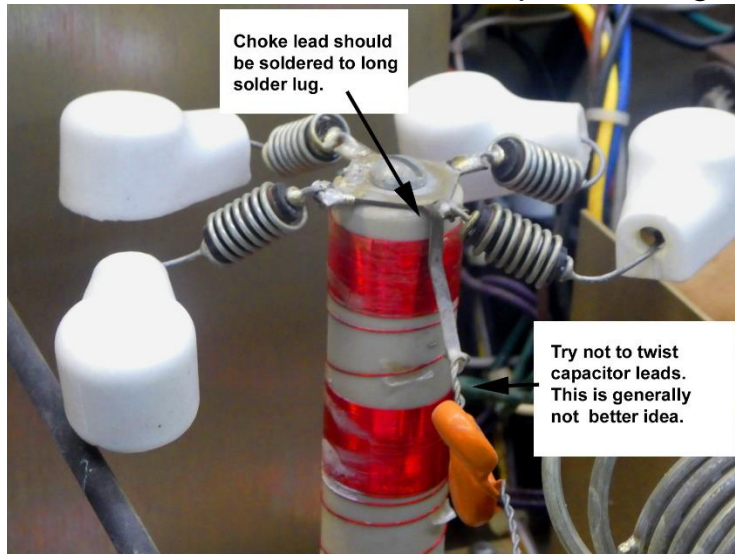
The TPS3AC provides a few places that can be used for blocking capacitor and choke connections:



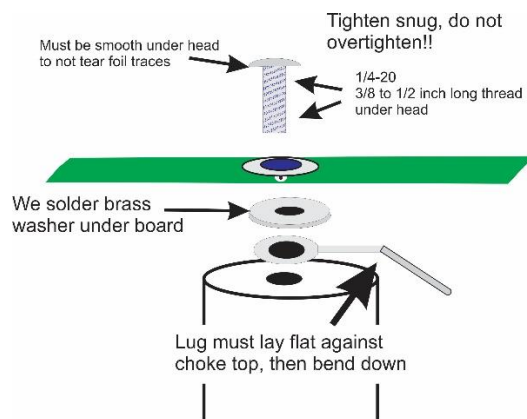
Proper connections AL811 units without a top solder lug:



Almost all other units used a top solder lug. These units are easy:



Leave the lug and choke wire intact and just mount the new TPS board:



or a picture:



