

WKUSB HV Upgrade Kit – For WKUSB Rev D PC board

Kit Contents

2 - AQW210E or AQW280E Solid State Relays (SSRs)

4 - 1 K ohm 1/8 watt resistors

Upgrade Instructions

- 1) Remove WKUSB cover and examine U1 and U3. They must be either dark color NEC or tan color Toshiba TLP 627-2 parts. If not, then you most likely already have SSRs installed.
- 2) Assuming you have optos, replace U1 and U3 with the SSRs supplied in the kit. Remember to observe pin 1 orientation and to not bend any of the SSR leads which are delicate.
- 3) If the optos you removed are NEC parts then you are finished, go to step 5.
- 4) Otherwise, four resistors (R7, R8, R13 and R16) must be adjusted. This is done by putting a 1K resistor in parallel with each of these resistors to lower their effective value. You can either put them on the top or bottom of the board. The bottom may be easier for you but this means removing the PCB from the enclosure. The picture below is a bottom view.
- 5) Re-assemble keyer, job is complete.

