

Kit-Projects Ubitx AGC

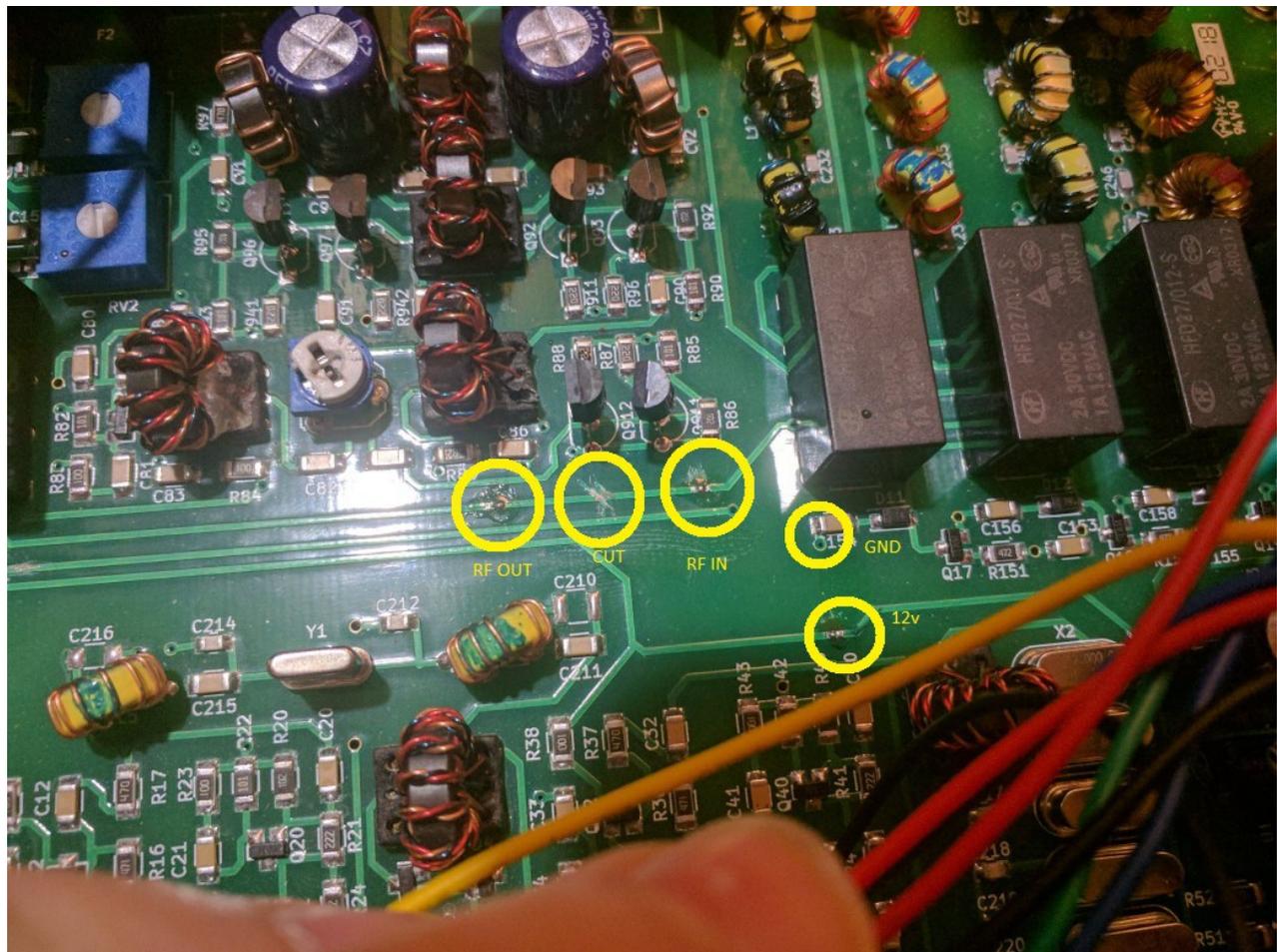
Install:

To install this AGC board you will need to scrape 3 trace points for RF In, RF Out and 12v. You will also have to cut the RX trace under the board somewhere between RF in and out.

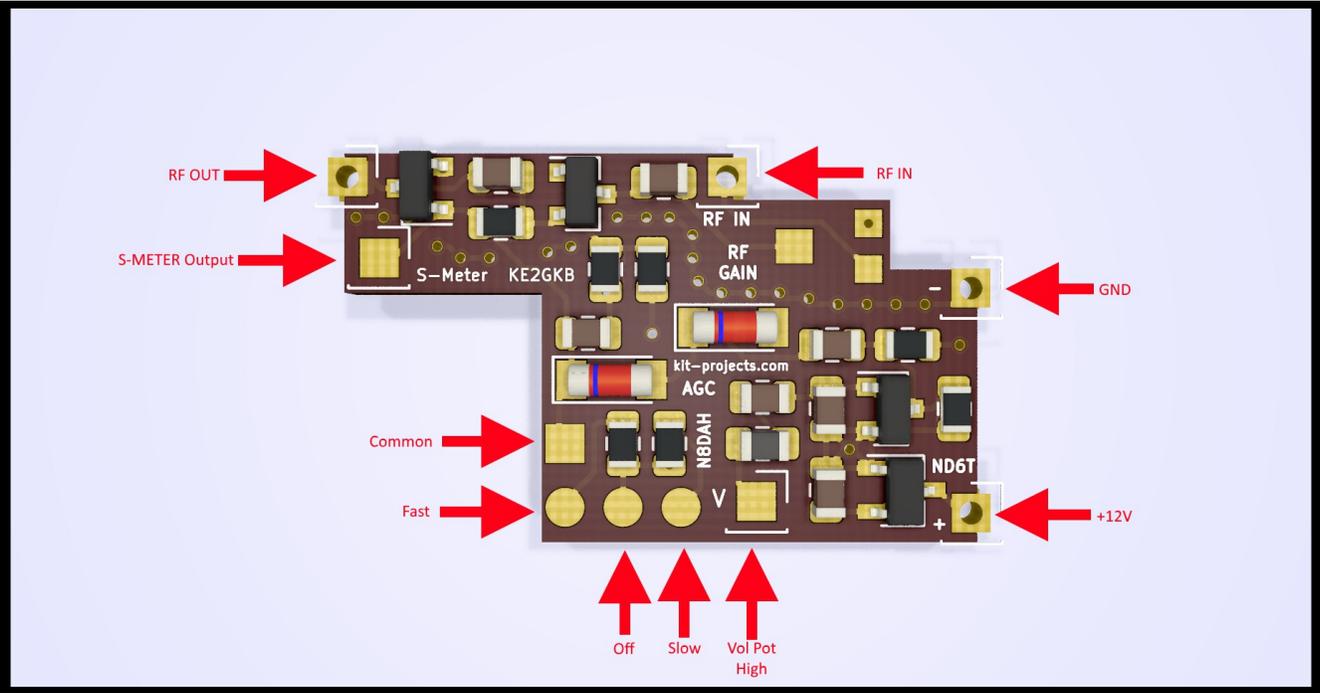
Start off with the board dry fit into place to get an idea of line up as well as where you will need to scrape. Line up the - (GND) with C154, please refer to the pictures to help with proper placement, use a fine marker or pencil to mark you connections.

Before you install the AGC it would be a good time to install the all the wires for switch, s-meter and volume pot.

Another tip is to add Kapton tape or electrical tape (if you use electrical tape be sure you don't melt it when soldering the board in) over the 12v trace under the board to ensure no shorts occur. While we have not had any reports of shorting it never hurts to add something small like this to prevent any.

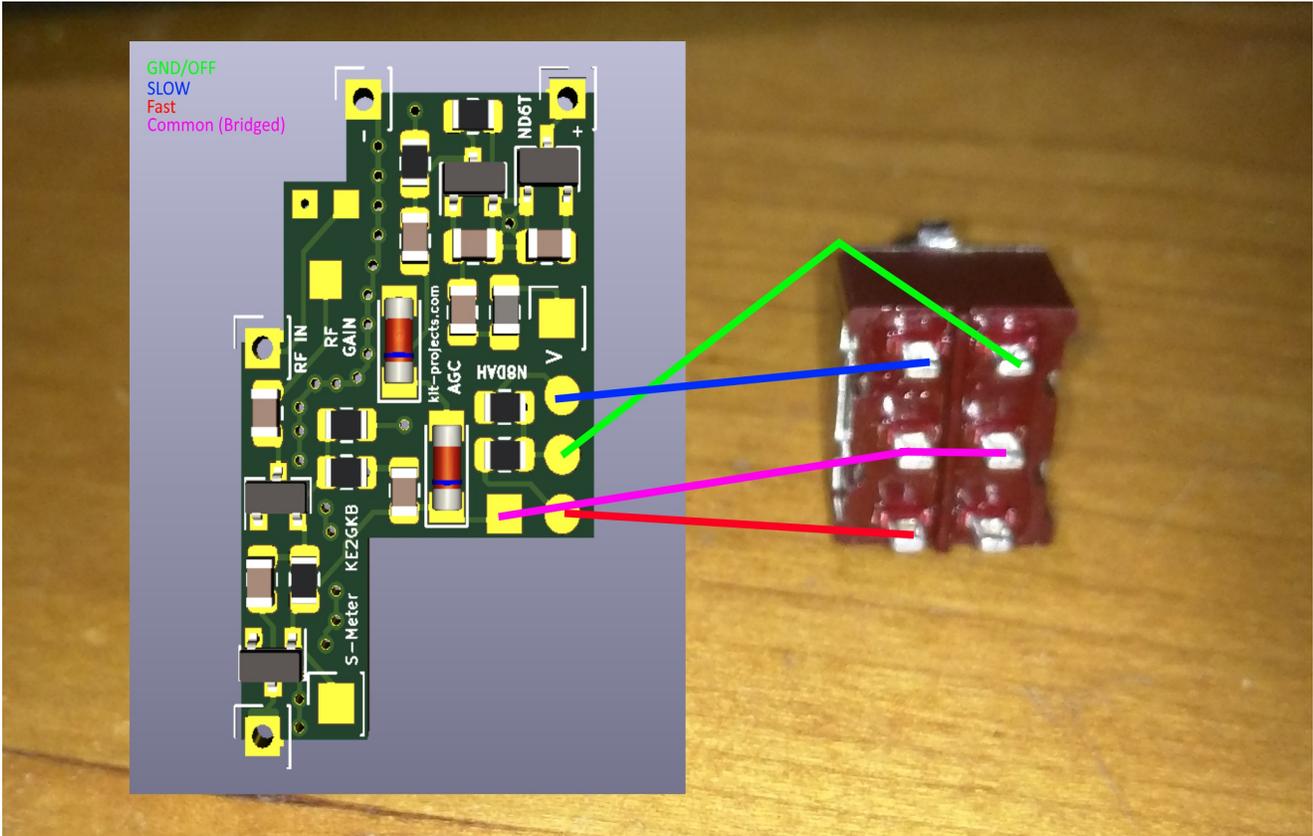


Board layout



Switch

The switch included in this add-on is not a DPDT it is a DP3T and needs to be wired properly to function as a slow/fast/off (Middle= Slow, Up= fast, Down= Off). Below is a diagram of the switch with the back facing you and the locking notch on the front facing up.



Volume Pot wire up

The V marking is connected to the Yellow wire(high side) of the Volume pot.

Gain

The AGC has one adjustment and this is the RF gain pot. You will need to adjust this to your liking before normal operation. It is currently set at its default middle setting, turning counter clockwise will increase the gain. You can also remove this and remote mount a 1k pot for this adjustment.

If you do remote mount this control you must use shielded cable and be as short as possible.

S-Meter Tap

Last but not least is the S-meter. The tap has been tested and setup for the CEC firmware via the A7 pin. If you would like to use a external S-meter some form of calibration circuit will be needed.

This has also been tested and working with the TSW BITeansio via Pin A19.

If you have any questions or comments please e-mail us at: Info@kit-projects.com

Special thanks to Don, ND6T for the design and to Jim, W0EB for some install tips.