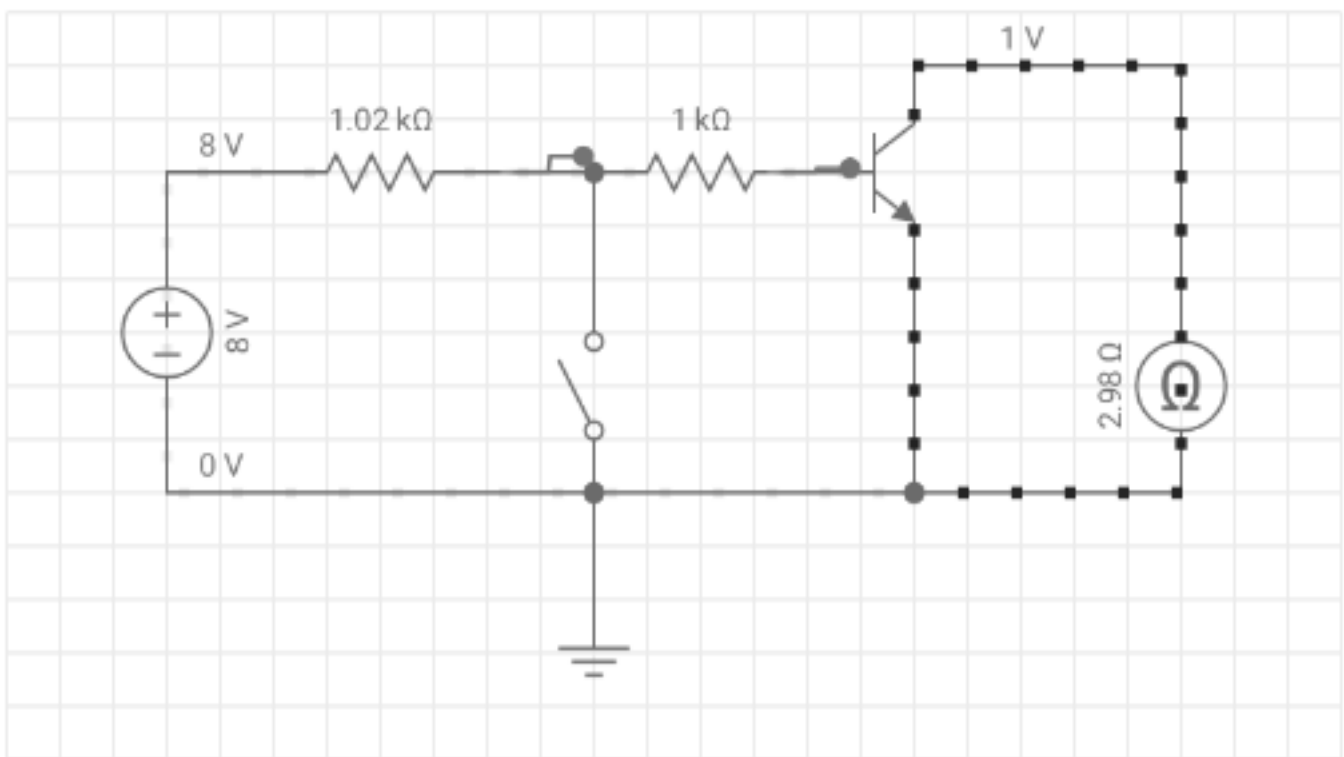


Implementing Icom TX Inhibit via a SteppIR Tuning Relay Interrupt

Prevents all RF transmission (and reception) until the SteppIR Controller Stops Tuning

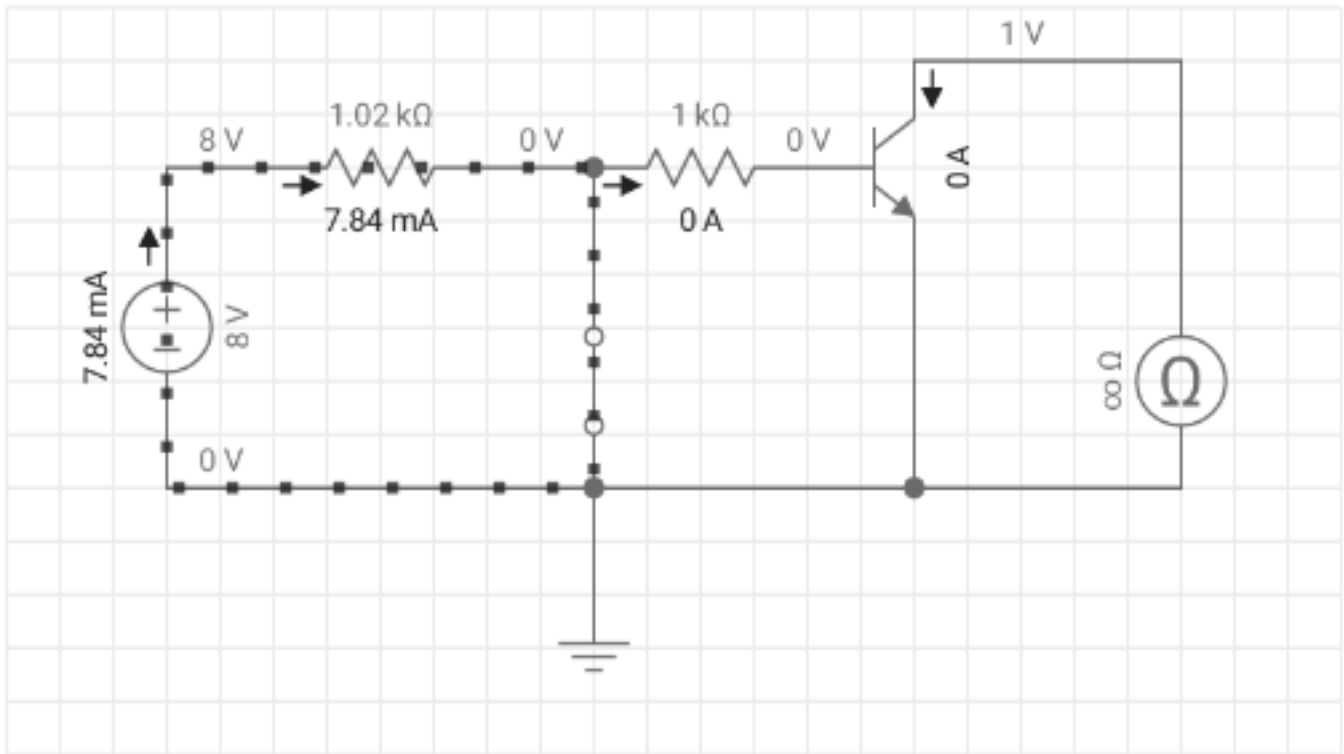
© 2019 N6TV

Schematic showing Tuning Relay Interrupt option **open**, Icom MUTE Line **grounded** by collector of NPN transistor. All RF transmission is inhibited:



Note: Voltage can be 5V to 13.8V, not critical.

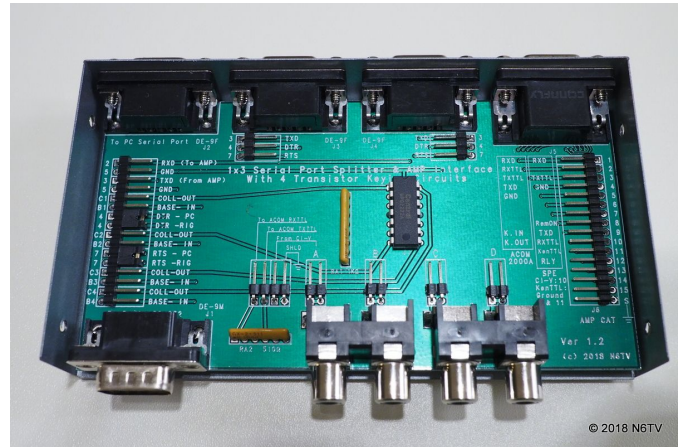
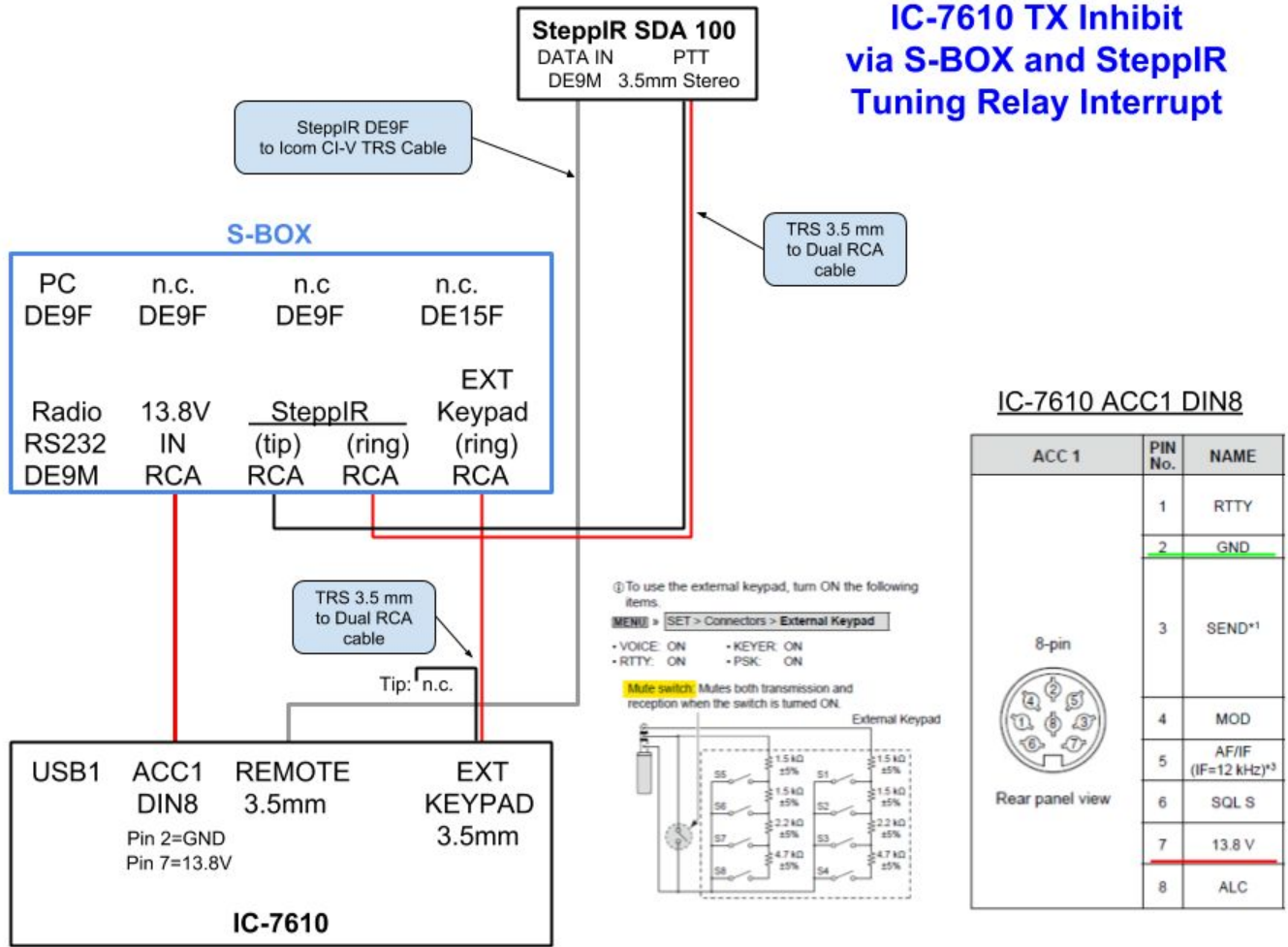
Schematic showing Tuning Relay Interrupt **closed**, Icom MUTE line **open**, RF transmission and reception is normal (not inhibited):



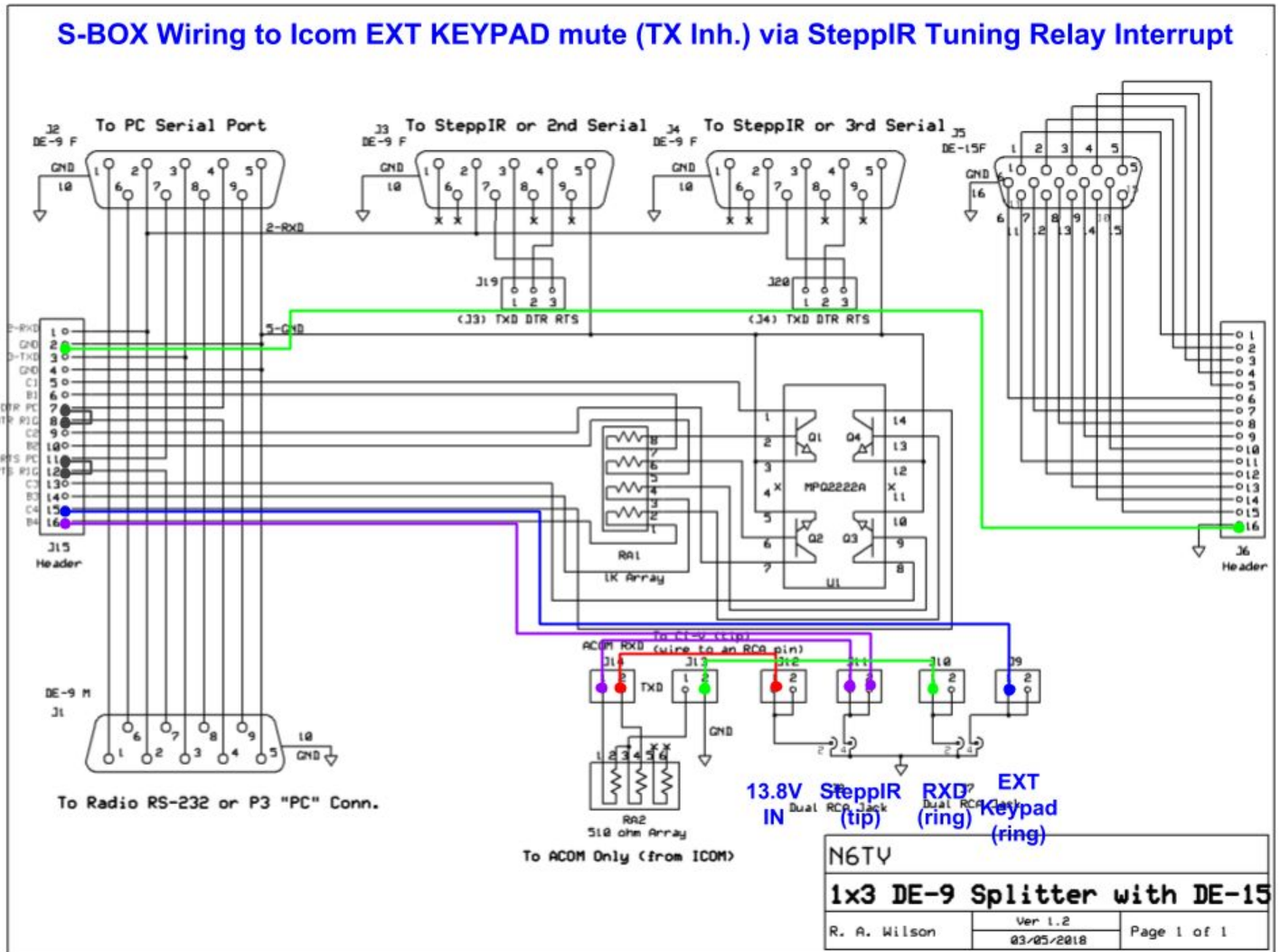
1.02 kΩ resistor can be changed to 10 kΩ to reduce current drain and heat for normal operation.

Block Diagram of Suggested Implementation using S-BOX:

Note: 13.8V input can be 5V to 13.8V from any source, does not have to be wired to ACC1



S-BOX schematic with jumper wires arranged to implement TX Inhibit Circuit



Note: This wires the two 510 ohm resistors inside every S-BOX in series to form the 1.02 kΩ resistor shown in the earlier schematics. A 10 kΩ resistor may be used instead to reduce current draw and heat during normal operation. The 13.8V input is not critical (5V OK).

73,
 Bob, N6TV
n6tv@arrl.net

Rev. 1.2
 9 March 2019