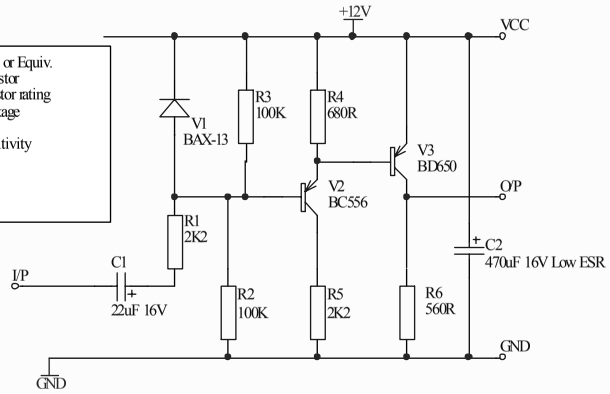
V1 - generic signal diode - 1N4148 or Equiv.
V2 - generic PNP TO-92 AF transistor
V3 - generic PNP AF power transistor rating
>3A, 40V, 20W TO-220 package

R1 may be adjusted to change sensitivity

Connect to Freq Gen
or PC sound card



Instructions for Uniden 510
Find and remove diode D7 - top left corner of large transformer - T1
Connect the driver circuit output to + end of D7.
Find and remove C7 - 0.47uF Electro - next to D7.
Find and remove diode D14.
Removef C51 - 470uF 25V adjacent to lower-right T1.
Drill a 2mm hole adjacent to pads for power wires to pass through.

Disable the audio input from the mic by:
Lift one end of R89
Lift one end of R93
Connect the driver circuit input to the junction of R89 & R93.

Circuit Description.
V1 used to fix the bias of the input capacitor with signal.
V2 is normally on with no signal.
V3 is biased on by V2 therefore the output is at +VCC and the modulation is maximum
This assists with the starting of the tube and tuning of the antenna matching.

When the input goes to "1" then V2 turns off,
removing the drive from V3. V3 output goes to GND.
With Semoia Freq Gen at 10khz rise and fall times are <=1uS.

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