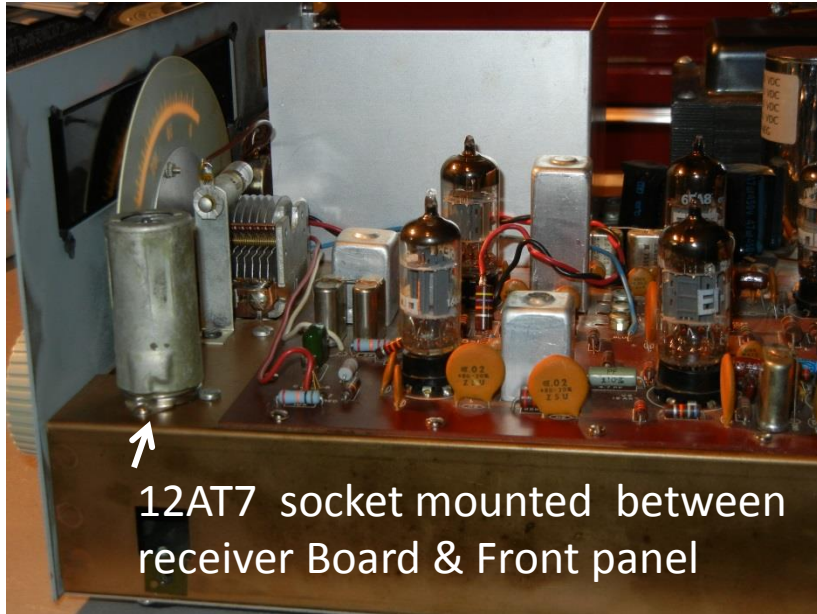
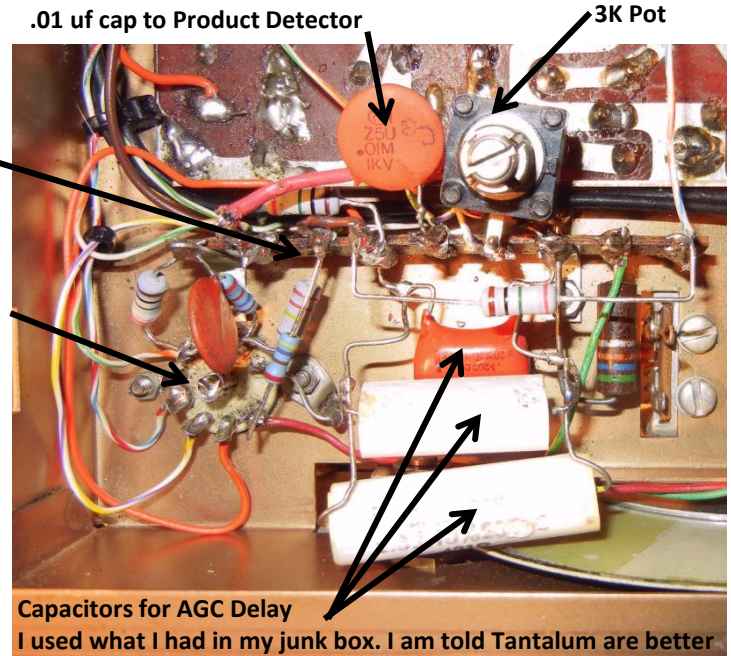


# HW-16 AGC Modification



12AT7 socket mounted between receiver Board & Front panel



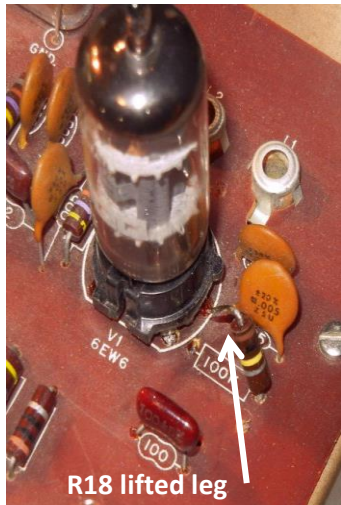
Terminal strip  
12AT7 Tube socket

.01 uf cap to Product Detector  
3K Pot

I'm still not sure if I want to add a hole in the front panel for the AGC switch. To the right I have them paralleled to give me slow AGC.

Capacitors for AGC Delay  
I used what I had in my junk box. I am told Tantalum are better

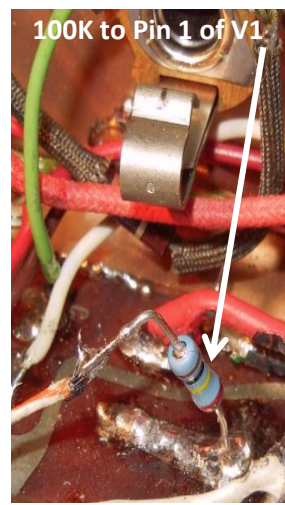
Thanks to Jim Inglis (WA1BOQ) who lead me to try this circuit and I'm glad I did. I've been waiting a long time to do this. I hope it works for you like it does for me. Please see sheet 2 for schematic and instructions.



R18 lifted leg



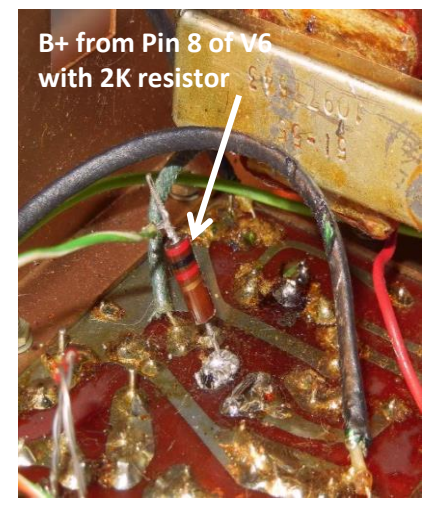
R39 lifted leg



100K to Pin 1 of V1



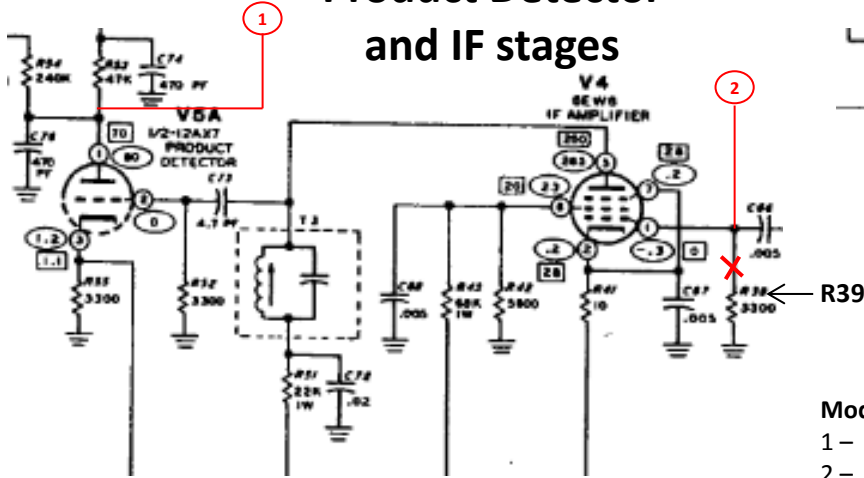
100K to Pin 1 of V4



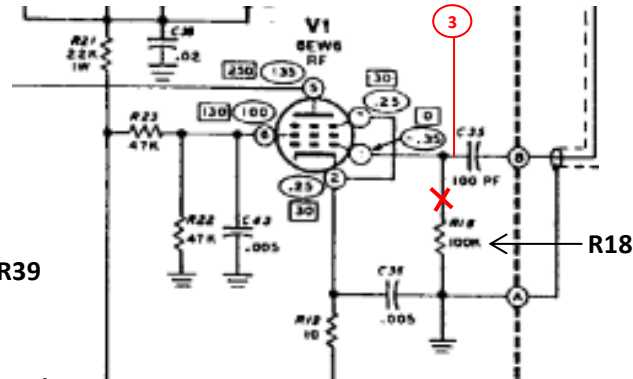
B+ from Pin 8 of V6 with 2K resistor

# HW-16 AGC Modification

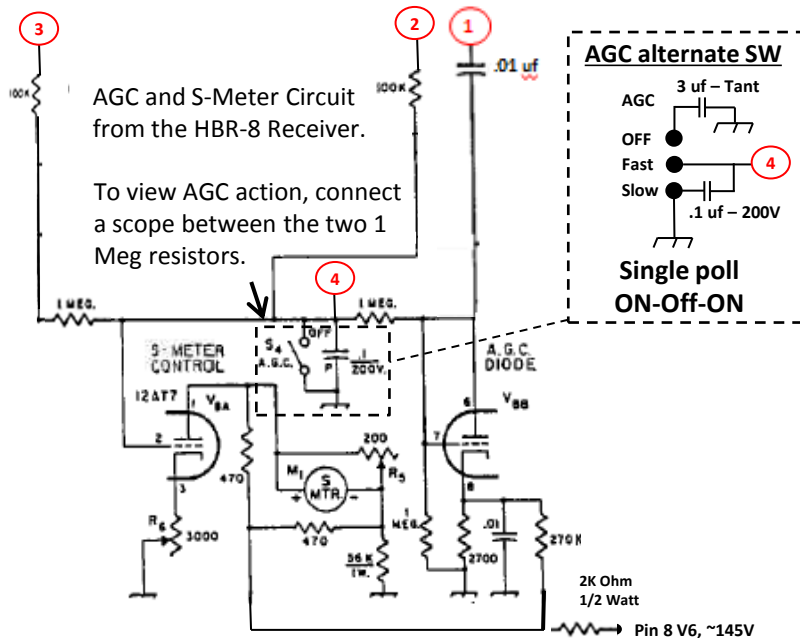
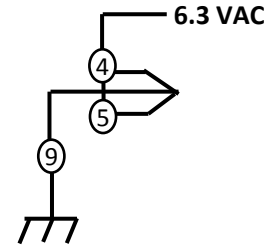
## Product Detector and IF stages



## RF Amplifier stage



## Filaments



### Mods:

- 1 – First Install the 12AT7 socket and a terminal strip towards the front of the chassis.
- 2 – Next mount the two 1 Meg Ohm resistors and 3K to 5K pot on the terminal strip.
- 3 – Start wiring the **AGC Diode** side of the 12AT7 and terminal strip.
- 4 – On the bottom side of the board, connect a .01 uF capacitor to pin 1 of the V5A **Product Detector**. Connector a wire from the other side of the .01 cap to the side of the 1 Meg ohm resistor that connects to pins 6 & 7 of the **AGC Diode** side of the 12AT7. See schematic connection **(1)**.
- 6 – On the **RF Amplifier V1**, remove the leg of **R18** from the Grid, Pin 1. You can leave the other side connected to the board. See Pictures.
- 7 – Connect a 100K Ohm 1/2 watt resistor on the bottom side of the board to pin 1 of V1. Connect a wire from the other side of the 100K ohm resistor to the 1 meg ohm resistor in the AGC circuit. See schematic connection **(3)**. See Pictures.
- 8 – On the **IF Amplifier V4**, remove the leg of **R39** from the Grid, Pin 1. You can leave the other side connected to the board.
- 9 – Connect a 100K Ohm 1/2 watt resistor on the bottom side of the board to pin 1 of V4. Connect a wire from the other side of the 100K ohm resistor to the 1 meg ohm resistor in the AGC circuit which is connected to pin 2 of the 12AT7. **(2)** See Picture.
- 10 – You don't have to add the S-Meter for the AGC to work, but you need to connect the 470 ohm and the 3K to 5K pot to the circuit. Plus connect pin 2 of the 12AT7 to the circuit as shown.
- 11 – Power is taken from Pin 8 of V6, with a 2K resistor to drop the voltage a little. Picture
- 12 – Connect the .1 uF, 200 volt capacitor in the circuit for starters. This will give a fast AGC response. See alternate switch setup for No/Fast/Slow AGC. See Pictures.