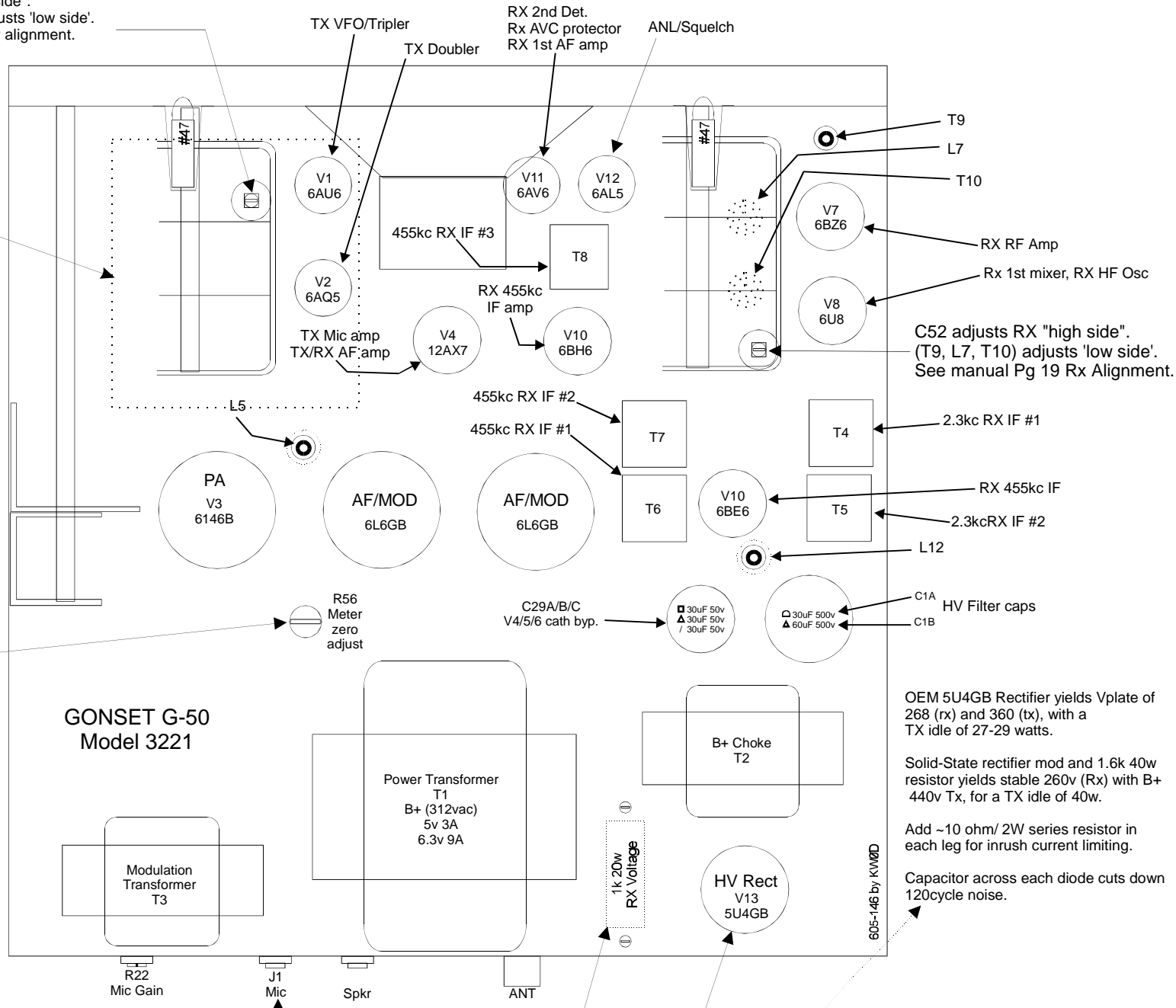
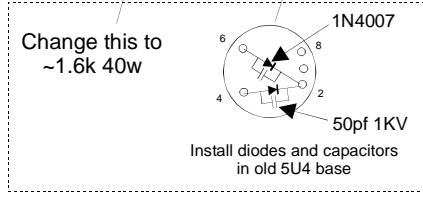


C3 adjusts TX "high side".
Coil slugs in VFO adjusts 'low side'.
See manual pg 20 for alignment.



Check S-meter circuit. If S-meter can be zeroed using POT, all is well.
If not, check voltage divider R40/R41, POT and R57 (4.7k 1w).
Check to see what the S meter reads with a 50 microvolt signal.
(after you set it to "zero" with no antenna connected.) (50 uV is the standard for "S-9")
If the meter doesn't make it to 9 with 50 uV, reduce the value of current limiting resistor R44 (33k) in the receive meter circuit. If higher than 9, increase it.

When using Astatic D104 with Crystal Element, change (R17) 270k up to 3.9Mohm or 4.7Mohm.



Chassis Layout & Adjustments GONSET G-50

If the squelch tends to not 'open up' after a lengthy period of use, check resistance of voltage divider of R65/R66. R65 (680K) tends to drift high, biasing the cathode so high that the diode never conducts. Two 'black beauties' in squelch/AF circuit, they're usually okay. Change if: --high ambient 'hiss' is with squelch open and antenna disconnected. --if popping and crud in RX audio.

OEM 5U4GB Rectifier yields Vplate of 268 (rx) and 360 (tx), with a TX idle of 27-29 watts.
Solid-State rectifier mod and 1.6k 40w resistor yields stable 260v (Rx) with B+ 440v Tx, for a TX idle of 40w.
Add ~10 ohm/ 2W series resistor in each leg for inrush current limiting.
Capacitor across each diode cuts down 120cycle noise.