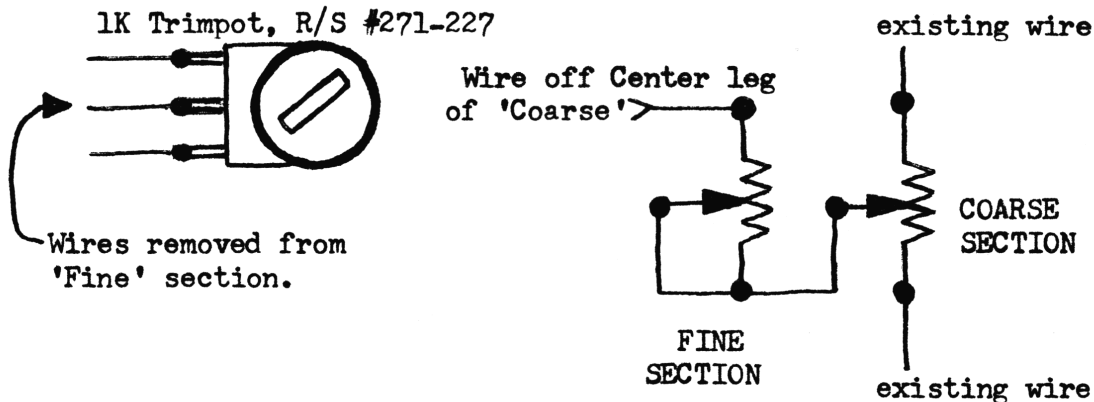


JACKSON: Clarifier Mod.

by G.L.

1. Remove leads from the 'Fine' section of clarifier; (one-by-one); rewire to a R/S #271-227 or equivalent pot. (1K trim pot.)
2. Take the center lead of 'Coarse' control off. Replace on an outer lead of 'Fine' section.
3. Rewire the two remaining leads of 'Fine' section together and run wire to center of 'Coarse' section.
4. Turn both pots dead center, and adjust following for alignment in TX mode (reference: Band D, Ch.10).
 - L14 - AM 27.5250MHz
 - L15 - USB 27.5260
 - L16 - LSB 27.5240
5. The next part is touchy and best tuned with 'known calibrated source'. DO NOT MOVE THE COARSE OR FINE. Make sure that unit is tuned in SSB mode for best audio quality: I used 'On the Air TX' of a Kenwood TS430 and adjusted the 'new' small pot for best audio reception.
6. When finished, tuck/tie the small pot into chassis carefully.
7. Unit now will have 'Fine' adjustment in TX/RX (approx ± 350 Hz), and 'Coarse' will still be the same ± 6 KHz slide.

Use drawing below for amplification of modification:



SPECIFIC TUNE-UP

SuperStar 120, 120 Ch. AM (uPD2816C-PLL)

TX-Peak (double-check across the whole Fo band) L18, L17, L16, L11.
RX-Peak L1, L2, L3, L4, L5. VR1-I.F. Gain, VR2-Rx Mtr., VR3-Sq. Rng.,
VR4-Tx Mtr. Final is 2SC1307, but has the thick white insulator-CHANGE!
No AMC control, disable is C65 - if needed. C39 can be increased in
value to make the noise circuitry more efficient.