CRAIG L232/WARDS GEN-719A

WITH UPD2824C CHIP

The only way to convert these sets without replacing the PLL chip, is to change the X4 mixer Xtal frequency. Use the quad bilateral switch circuit shown on page 71 of this volume.

The following Xtal frequency will give you the channels indicated.

11.2858	Stock channels
11.135	26.515-26.955
11.435	27.415-27.855
11.5868	27.865-28.305

Adjust L18 with the scope at TP10.
Connect TVM to TP9, adjust L13 for 6.5V on channel 40(VCO).
Peak L14 with scope at TP1 on channel 19.
Adjust CT3 for 34.9875MHz on channel 19 USB.
Adjust L20 for 34.9850MHz on channel 10 AM.
Adjust L19 for 34.9825MHz on LSB, channel 19.

At TP3 on channel 19 on mode indicated;

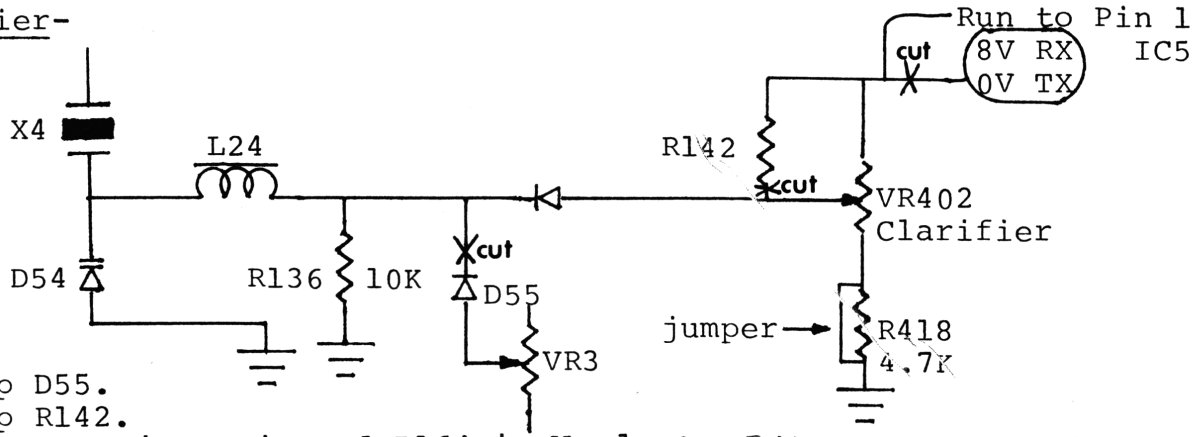
LSB	Adjust CT2 for 7.7975MHz.
USB	Adjust CT1 for 7.8025MHz.
AM, TX	Adjust L17 for 7.800MHz.

Transmitter Alignment-

Put DCma meter in series with TP8. Adjust VR8 for 30ma on channel 19, USB, TX. Put DCma meter in series with TP7, and adjust VR9 for 60ma on channel 19, USB, TX.

Inject a 1KHz tone on USB and peak L26, L27, L28, L29, L36 for Max. VR5; Carrier Null, VR6; AM Power, VR7; SSB ALC, VR10; RF pwr meter.

Clarifier-



1. Clip D55.
2. Clip R142.
3. Jump R418 in Craig and R164 in Wards. Gen-719A
4. Cut wire at top of Clarifier control and run a new wire from clarifier to pin 1 of IC5.
5. Lift anode of D54 and install 5.6uH choke. For more slide, use our Super Clarifier Diode.