

# UNIDEN 8719 PLL CHIP FREQUENCY CONVERSION

FOR COBRA 140, 142GTL, etc.

1. Refer to Secret CB Volume 4, page 50 for power output, modulation, and clarifier modifications.
2. Obtain seven crystals: 10.300, 10.550, 10.700, 10.850, 11.000, 11.250, and a 11.400.
3. Secure a crystal box or a rotary switch.
4. Install the new crystals in the crystal box or on the rotary switch along with the original crystal. Keep leads short as possible.
5. Acquire an extra VCO block.
6. Install the original VCO block (L13) and the second VCO block on a switch (toggle or slide) or on a small piece of perf-board with a relay.
7. Tune one VCO block at 25.685. Check the unit at 24.825 and at 26.545 to be sure it is transmitting on frequency.
8. Tune the second VCO block at 27.405. Check the unit at 26.555 and at 28.265 to be sure it is transmitting on frequency.
9. Realign transmit section of unit at 26.545. Refer to Secret CB, Volume 4 for transmitter realignment instructions.
10. The receiver section may be realigned by adjusting L3, L4, L5, L6, L7, L8, L9, and L10.

## PHASE LOCK LOOP CRYSTALS

COBRA 148GTL, COURIER GALAXY, PRESIDENT GRANT, TRAM D80, TRAM D300, and all other 40 channel radios with a Uniden 8719 chip and an 11.325 or an 11.3258 xtal. Replaces 11.325 or 11.3258 xtal.

XTAL	11.000	. . .	25.995	thru	26.435MHz
	11.050	. . .	26.145	thru	26.585
	11.150	. . .	26.445	thru	26.885
	11.200	. . .	26.595	thru	27.035
	11.450	. . .	27.345	thru	27.785
	11.495	. . .	27.475	thru	27.915
	11.500	. . .	27.495	thru	27.935
	11.505	. . .	27.505	thru	27.945
	11.600	. . .	27.795	thru	28.235
	11.640	. . .	27.915	thru	28.355
	11.650	. . .	27.945	thru	28.385