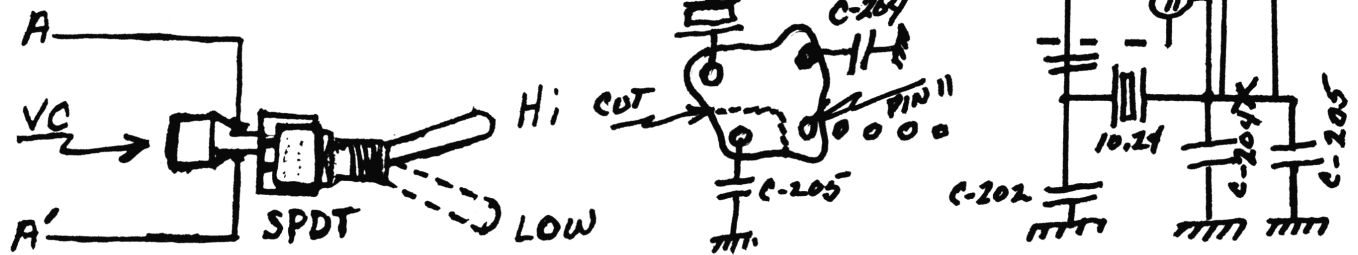


5K OFFSET



1. Wire up the SPDT switch and the variable capacitor(supplied) as shown above.
2. Remove C-205, Move C-204 to where C-205 was.
3. Cut the printed circuit trace as shown while making sure the 10.24 crystal and pin 11 of the PLL chip are connected.
4. Solder the two wires from the SPDT switch across this cut.
5. With the unit on channel 10, and the SPDT switch in low position, apply power to the unit. Check the TX frequency for a reading of 27.075. If it is too high add a small capacitor across C-205 on the circuit side of the board. If it is too low change C-205 to a smaller value capacitor.

Note: 1pf change in value will shift the frequency approx. 200HZ. If your reading is within 500HZ it is well within tolerance.

6. Switch the SPDT switch to Hi. position and adjust VC for a TX frequency reading of 27.080.

Note: On the Colt 355 we suggest that the existing switch be used for the 5K Offset.

CHANNEL CONVERSION - COBRA 19XS, MIDLAND 103M, COLT 355

1. Remove CF-1 (10.7 ceramic filter). Solder cable #1 in its place. Put the white or yellow wire on the side that is connected to L-103.
2. Remove the jumper connected to pin 20 of the PLL chip. You will find it just under the notched end of the chip.
3. Separate the three wires in cable #2. Connect the orange wire to pin 20 of the PLL chip and the brown wire to the other point where the jumper was removed.
4. Connect the red wire to pin 18 of the PLL chip.
5. With the channel selector on ch. 10, the SPDT switch in low position and the epoxy pack switch in normal, apply power to the unit. Peak the receiver in your normal manner. Mark the setting of L-103.
6. Switch the epoxy pack switch to low position. Inject a low signal level of 26.620 or use a previously modified unit, same settings. Now repeak the receiver using L-103 only. Note the amount and direction of adjustment needed. When you have achieved peak, back the adjustment off by $\frac{1}{2}$ of the signal level increase.
7. Mount the epoxy pack using the mounting hints.

Note: The Midland-103M has a plastic cover.
Drilling is suggested.

