

COERA 135XLR (TC5080P Divider-NOT PLL!) - UPDATE

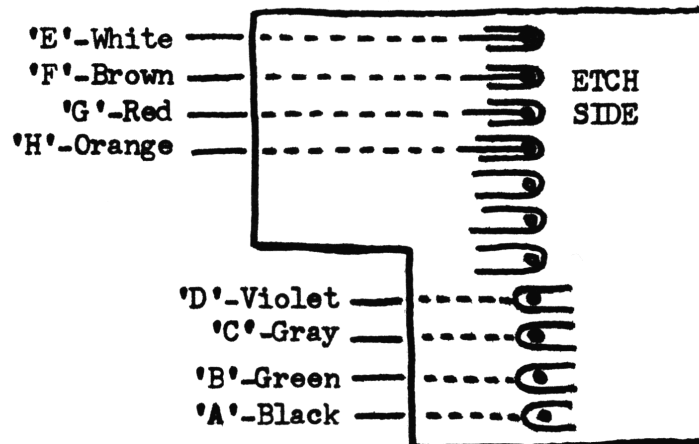
Found this unit at yard sale, as-is for \$20.. Decided to fix/modify and sell, have a very good Zebra which couldn't beat anyway.

After getting into unit found bad Final and Clock, (forget ordering a clock for this unit - \$!)...

TROUBLE: Don't know if Vol. 10 pg. 43 is wrong or there was a production change. Anyway Pin 8 of TC5080P is tied to Pin 13 with etch under the Chip.

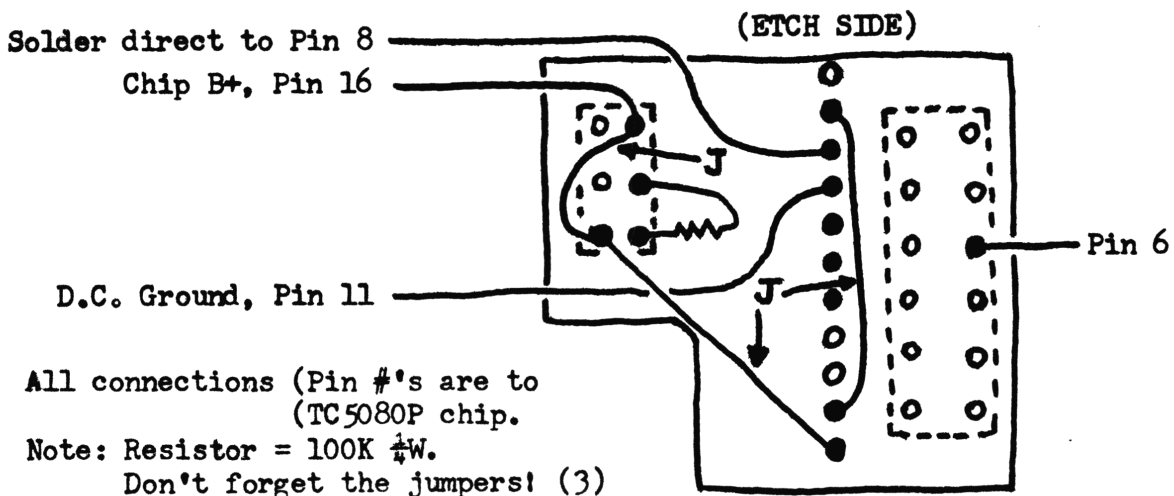
To modify correctly: Push/Pull Pin 8 up to the component side, or remove chip and bend pin 8 up before replacing the chip on PCB.

Following is chip, switch modification - follow to the letter.Use the drawing below for Steps 1-4, clean out all holes on push button assy board.....



1. Remove wires: A, B, C, D, E, F, G, and H; from the push-button assy board.
2. Remove wires A, B, and C from other board, solder wire D to where wire C just removed. (Cut to length, as are 'hard-wiring' the PA/CB to permanently CB.).
3. Remove wires E, F, and G from other board, solder wire H to where wire G just removed. (Cut to length, as are 'hard-wiring' the NB/ANL permanently on.)
4. Turn unit on and double-check to see that you wired everything correctly so far.

Wire up the push-button assembly board exactly as drawn below, wires-1'. Use 4-wire ribbon cable (solid), or any solid wire.



All connections (Pin #'s are to TC5080P chip.

Note: Resistor = 100K $\frac{1}{4}$ W.

Don't forget the jumpers! (3)

COBRA 135XIR (UPDATE)..Cont.

Do slide mod per Vol. 10, Pg. 45...Note: S/N on this unit, 40-088XX.

NB/ANL Button Down - Low Fo's. PA/CB Button Down - High Fo's.
Both down, still the same as the NB/ANL down.

Freq. Chart: LOW

Selector	Frequency
27.....	26.795
28.....	26.805
29.....	26.815
30.....	26.825
31.....	26.835
32.....	26.845
33.....	26.855
34.....	26.865
35.....	26.875
36.....	26.885
37.....	26.895
38.....	26.905
39.....	26.915
40.....	26.925

HIGH

Selector	Frequency
3.....	27.145
7.....	27.195
27.....	27.435
28.....	27.445
29.....	27.455
30.....	27.465
31.....	27.475
32.....	27.485
33.....	27.495
34.....	27.505
35.....	27.515
36.....	27.525
37.....	27.535
38.....	27.545
39.....	27.555
40.....	27.565

LINEAR TIPS — Problem: SQUEAL ON TX.

Radio is good! But when hooked up to linear: SQUEAL!

Try following, as has worked with units:

1. Check grounds on Radio, Linear, and Antenna.
2. Check for NO voltage drop to either unit when keyed up.
This is the main cause of squeal. Voltage/Current limiting!
3. Try different lengths of coax between the radio and linear.
4. Take case off radio, check for a small disc capacitor on the audio chip to CASE GROUND. Remove it, and try again.
- This has worked with the Uniden SSB chassis before -
5. The microphone can also be a source of problem. SQUEAL after all is nothing but RF FEEDBACK. To eliminate if microphone is the problem: Go to straight cable, instead of coiled.
In difficult cases an RF filter in the transmitter audio input is needed. Try the following: Ferrite bead on audio input lead, .001MFD from audio input lead to D.C. Ground, or a filter network on the audio input. See below for two different types:

