

MIDLAND 77-830, "Custom Conversion to 26.435-27.405MHz"  
by J.V.

Quote: "Reason for doing a write-up on this model is that are popping up from ?.... (New-in-the-box)... Had a hunting club bring in 8 for modification."

**A. External Speaker Switch:**

1. Remove Pink, Gray, and Purple wires.
2. Delete Pink wire.
3. Solder Gray and Purple wires together, sleeve.  
(P.A. and Ext. Speaker are now permanently inoperative.)

**B. Filter Switch:**

1. Remove Blue/White and Black wires.
  - a. If no filter is wanted - delete both wires.
  - b. For filter, solder both wires together and sleeve.

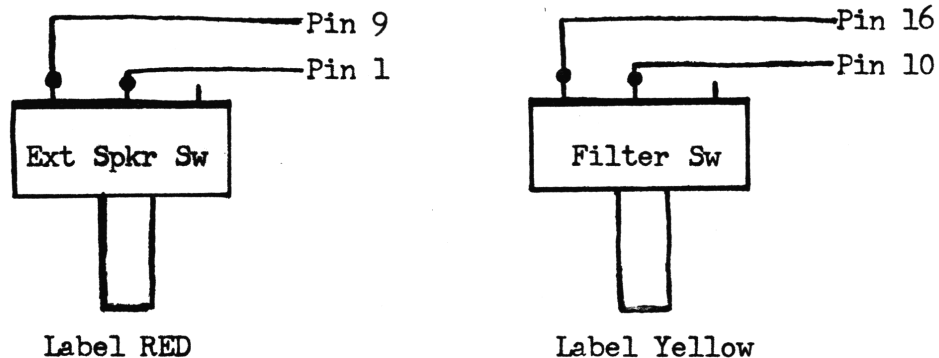
**C. Label switches on front panel:**

Ext. Spkr. Switch - Red; Filter - Yellow (Note: I used paint on end of switches.)

**D. PLL Mod/Switch Wiring:**

1. Cut etch traces to Pins 9 and 10.
2. Bridge the cuts with 4.7K  $\frac{1}{4}$ W 5% resistors.
3. Wire up switches as shown below directly to PLL chip pins. (\*)

Diagram/Wiring-Step D3



(\*) Use Isolated Tip soldering iron...

**E. Alignment:** See Vol. 16 pg. 24 for alignment techniques.

**F.** Red switch enabled - 26.435-26.745MHz, selector pos. 10-38...  
Red & Yellow switch enabled - 26.755-26.955MHz, selector pos 10-27  
26.995MHz, selector pos 31 (3A)  
27.045MHz, selector pos 36 (7A)