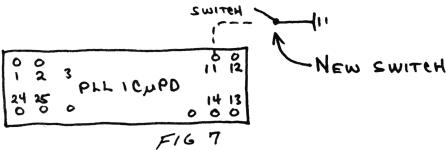
1. Channel Expansion

You can get more channels 27.420 to 27.860 by modifing. This modification needs one SW.



- 2. To make the claifier more effective both in mode TX and RX proceed as follows.
 - A. Remove two wires (Model 850 two blue wires, Model 1400 Red and White wires) from tap of clarifier volume. Two wires must be connected together after removed and then insulated where connected.
 - B. Connect a wire between +8V and the vacant tap where two wires were removed.
 - C. Disconnect (Model 850 the brown wire on TX-RX control, Model 1400 -two yellow wires on TX-RX control and connect them together), which are located in the front part of the PLL Unit.
 - D. Remove 15pF disc capacitor (C-8) located next to CV1 variable capacitor. (C-8 is marked as C-9 on a circuit board on Model 850).
 - E. Set clarifier control to center range. Adjust CV1 by using a frequency counter for center frequency on a selected channel.
- 3. 5KHz down of expanded channel

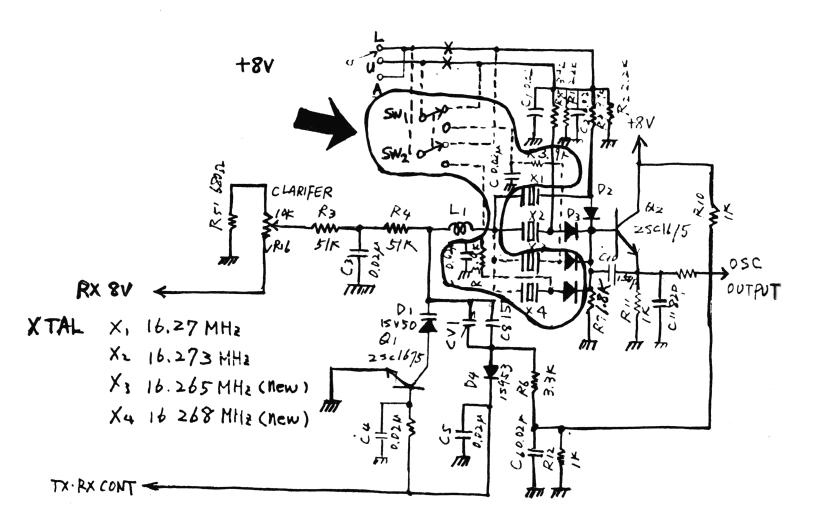
If you want to bring expanded channel frequency (27.420 to 27,860) down to 5KHz (27.415 to 27.855) you need the following:

Two contact double switches
Two resistors 3.9K Ohm
Two capacitors 0.02u
Two crystals 16.265, 16.268
Two diodes (any kind of RF diode)

The instructions for installation is shown on the following page.

Expanding channels from 27.415 to 27.855 MHz can be done by the attached instruction.

- 1. Three switches to be added.
- 2. Two resisters to be added.
- 3. Two capacitors to be added.
- 4. Two X-tals to be added.
- 5. Two diodes to be added.



CHANNE L		CHANNEL	EXP.	
DIAL	FREQUENCY	DIAL	CHANNEL	FREQUENCY
1	26.965	21		27.215
2	26.975	22		27.215
3	26.985	22A	23	27.235
4	27.005	ZZA	23	21.233
5	27.005	23	25	27 255
6		9	26	27.255
7	27.025			27.265
	27.035	10	27	27.275
8	27.055	11	28	27.285
9	27.065	12	30	27.305
10	27.075	13	31	27.315
11	27.085	14	32	27.325
12	27.105	15	33	27.335
13	2 7. 115	16	3 5	27.355
14	27.125	17	36	27.365
15	2 7. 135	18	37	27.37 5
16	27 . 155	19	38	2 7. 385
17	2 7. 165	20	40	27.405
18	27 . 1 7 5	21	41	27.415
19	27.185	22	42	27.425
20	27.205	,	43	27.435
		23	45	27.455
				27 (133
			•	

CHANNEL MISSING		PARTS		
24 29 34 39 44	27.245 27.295 27.345 27.395 27.445	3 - IN 60 Diodes 1 - S/N 7493 IC Approx. Conversion Time .55 40 min. not including un- packing, opening, testing, closing, and repacking.		