

## KIT #146 - DATA SHEET (UPDATE)

THIS KIT IS INTENDED TO EXPAND RECEIVE FREQUENCIES ONLY. WE ASSUME NO RESPONSIBILITY FOR MODIFICATIONS TO TRANSMITTERS RESULTING IN ILLEGAL OPERATION ON UNAUTHORIZED FREQUENCIES..

### INSTALLATION INSTRUCTIONS FOR THE DIGITAL PROCESSOR

The following pin numbers refer to the 2824 PLL chip.

1. Isolate pin 10 by removing the jumper (JP41) located between IC2 and D33 on the component side of the board.
2. Solder the Brown wire to ground (Pin 21)
3. Solder the Red wire to 5 volts (Pin 11)
4. Solder the Orange wire to Pin 14
5. Solder the Yellow wire to pin 10 in the hole where the jumper JP41 was.
6. Solder the Green wire to the other hole where the jumper JP41 was - next to C72..
7. Carefully remove C72 and save, clean out hole and solder the lpf capacitor that comes with kit in place.
8. Remove C73, replace with the capacitor you took out of C72 position.
9. Change R106 (100 ohm to a 47 ohm) provided in kit; located by L18/X1.

### ALIGNMENT

- A. With switch in the center position, check for regular 1-40 channel operation..
- B. With switch in DOWN position, adjust the tripler L13 for 27.285 on channel 1. (If installed according to  $F_o$  chart drawing.)
- C. With switch in UP position, check for 27.605-28.045. The VCO (L14) may have to be adjusted.

NOTE: The tuning is very critical but, with a little patience, can be adjusted for full range.

### CLARIFIER MODIFICATION

1. Lift the Anode of D30 and connect the Super Slide in series.

This gives 5KHz slide.  
(For 13KHz slide, change D30 to a Super Clarifier Diode)..

2. Connect control to 8V source. Ground other end.
3. Remove D32...

