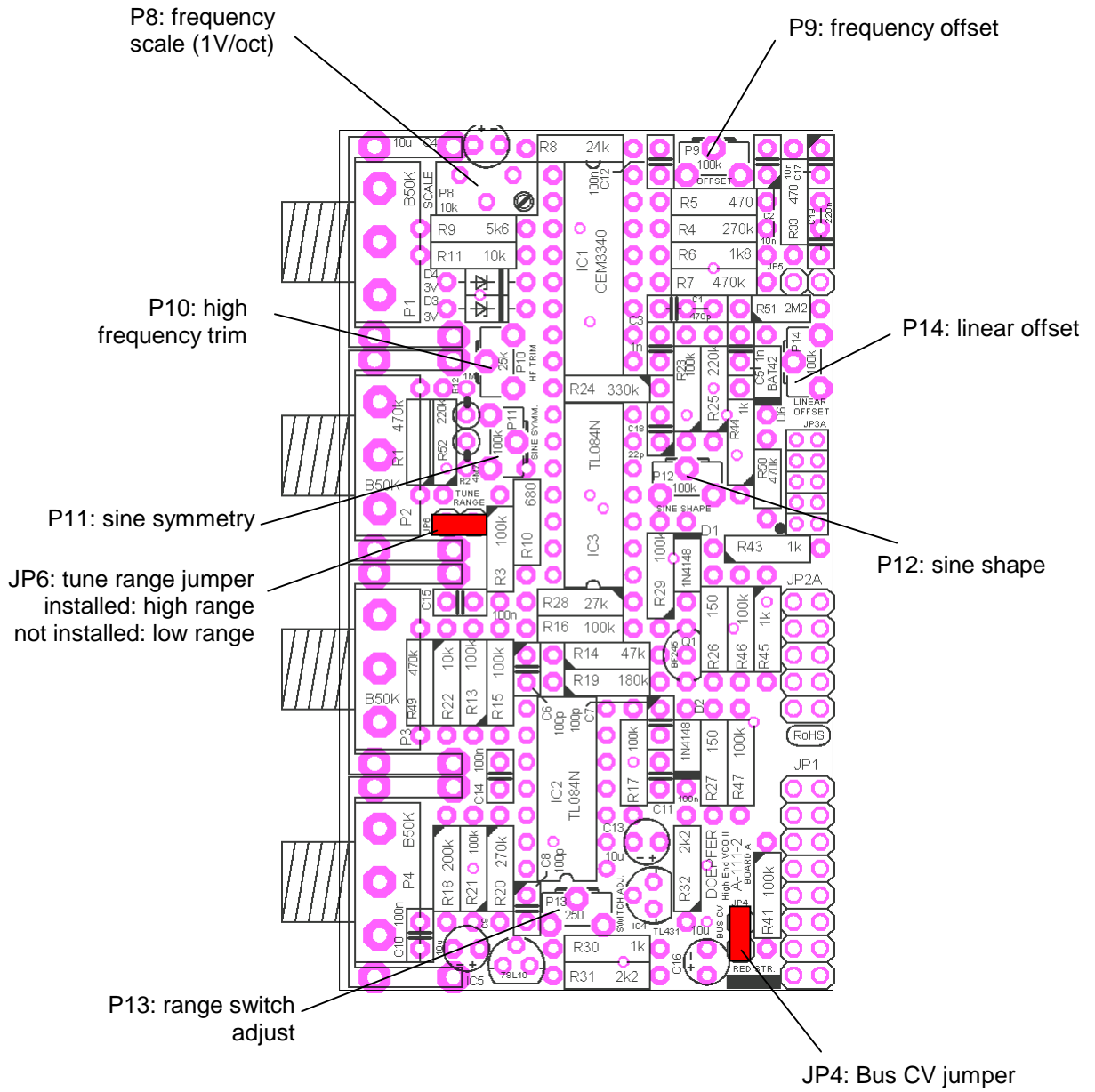


A-111-2 High End VCO II

Position and function of the trimming potentiometers and jumpers



A-111-2 Adjustment procedure (for experts only)

1V/Octave adjustment

- Mode switch to VCO mode, octave switch to position "0", Tune and Fine to center position, LF fully CW, no external modulations, no CV via bus
- Connect the 1V/O socket to a CV source that is able to generate exact 1.00V differences (i.e. 0.00V / +1.00V / +2.00V / +3.00V / +4.00V and so on)
- Connect one of the outputs (e.g. sawtooth) to a frequency meter _____
- Adjust P8 (frequency scale) so that a difference of 1.00V of the applied CV corresponds exactly to one octave intervals (i.e. frequency doubling), the absolute frequencies are not important at this time
- Correct the values - if required - for higher frequencies (beyond about 5kHz) by means of P10 (high end trim)
- the Tune knob may be used to change the absolute frequency if required

Octave switch adjustment

- Adjust P13 (range switch adjust) so that the six positions of the range switch correspond exactly to one octave intervals (i.e. frequency doubling), the absolute frequencies are not important at this time

Frequency offset adjustment

- Octave switch to position "0", Tune and Fine to center position, LF fully CW, no external modulations, no CV via bus
- Adjust P9 (frequency offset) range switch adjust) so that the frequency meter reads 64Hz
- operating the range switch to positions -1 and -2 should change the frequency to about 32Hz (-1) and 16Hz (-2)
- operating the range switch to positions +1, +2 and +3 should change the frequency to 128Hz (+1). 256Hz (+2) and 512Hz (+3)

Sine shape adjustment

- connect the sine output to an oscilloscope
- adjust the shape and symmetry of the sine output by means of P11 and P12

Linear offset adjustment

- connect the triangle to an oscilloscope and frequency meter
- octave switch to position "-2", Tune and Fine fully CCW
- operate LF control from fully CW to fully CCW and adjust P14 (linear offset) so that the frequency does not fall below about 5Hz (the triangle may become already a bit asymmetric with these settings)

If you are not able to do the adjustment please return the unit to the dealer where you purchased it for readjustment.