

# VCO Control Descriptions

## A Octave Range Switch

Changes the frequency range in 1 octave steps from +0 octaves to +5 octaves.

## B Waveform Selector

Selects the waveform output.

## C Tune Control

Fine tune adjustment from -12 to +12 semitones.

## D Pulse Width Control

With no signal present at the PW MOD input, **G** the knob adjusts the pulse waveform's width from 50% (square wave) up to 5%. At higher frequencies the minimum pulse width will go to 0% (no output).

## E Keyboard Control Input

Input for 1V octave pitch control signal.

## F Sync Input

Input for master synchronization signal.

## G Pulse Width Mod Input

Modulation input for pulse width control. When a signal is present, the Pulse Width Control knob, **D**, sets the depth of the pulse width modulation signal.

## H Frequency Mod Input 1

Input for exponential pitch control signal with logarithmic adjustable depth control.

## I VCO Output

## J Frequency Mod Input 2

Input for exponential pitch control signal with linear adjustable depth control.

## K Sync Type Switch

Sets the synchronization type to Weak (W) or Strong (S). Weak synchronization will force the VCO to lock to interger or fractional multiples of the master frequency, with the reset occurring near the waveform's maximum value. Strong synchronization forces the VCO to reset with every cycle of the master, regardless of where it is in its waveform cycle.

