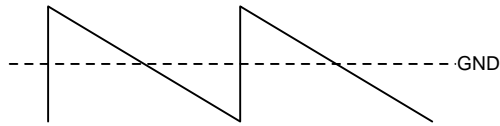


RJWSOft Voltage Controlled Oscillator Adjustments

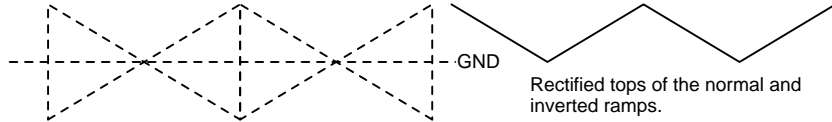
Sawtooth Wave Adjustment

Use R5 to center the sawtooth at the output of U4-A about ground.



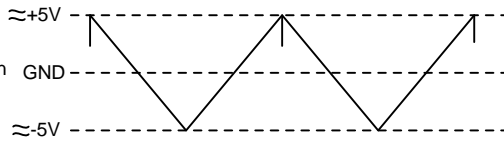
Triangle Wave Generation and Adjustment

Superimposed normal and inverted ramp waves. The positive excursions are rectified by D2 and D3 to form the triangle waveform.



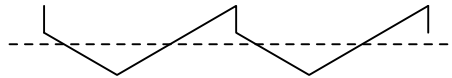
Triangle wave output at pin 8 of U4-C

R5 trimmed properly for triangle shape and R7 adjusted to position triangle wave about ground.

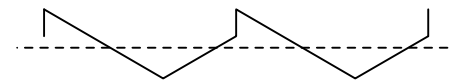


The teensy glitches at the top of each triangle wave are the transition artifacts which result from the edges of the RAW ramp wave from which this waveform is generated. They are inaudible. C14 reduces them considerably.

Improperly trimmed R5

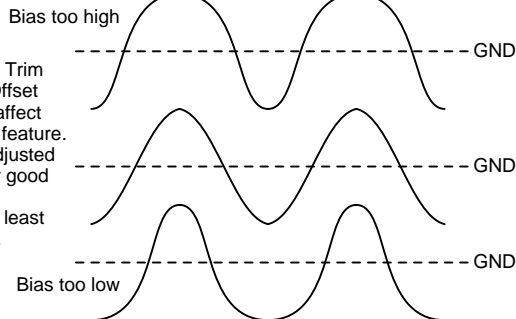


Improperly trimmed R5

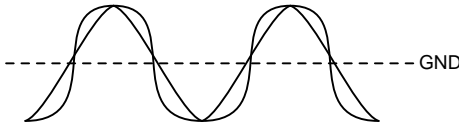


Sine Wave Adjustment

R60 Sine Bias Trim
Note! R7 Tri Offset Trim will also affect this waveform feature. It should be adjusted first. Adjust for good top to bottom symmetry and least sine distortion.



R64 Sine Shape Trim
adjusts between too square and too triangular. Adjust for least sine distortion.



R59 Sine Level Trim
adjust for +/- 5 volts.

