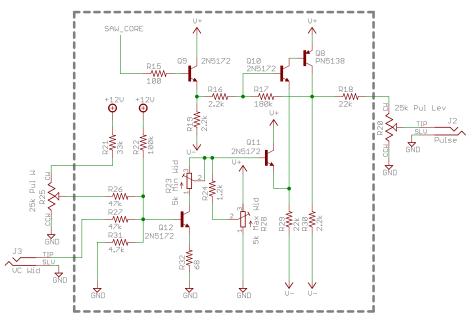


The VCO uses all the power connections. Use 150u electrolytics and 22 ohm resistors on the Power PCB as noted.

. 10

Copyright 1976, 2010 Nyle Steiner and Analoogue Realities. All rights reserved

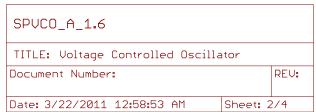
SPUCO_A_1.6	
TITLE: Voltage Controlled Oscillat	or
Document Number:	REV:
Date: 3/22/2011 12:58:53 AM	Sheet: 1/4



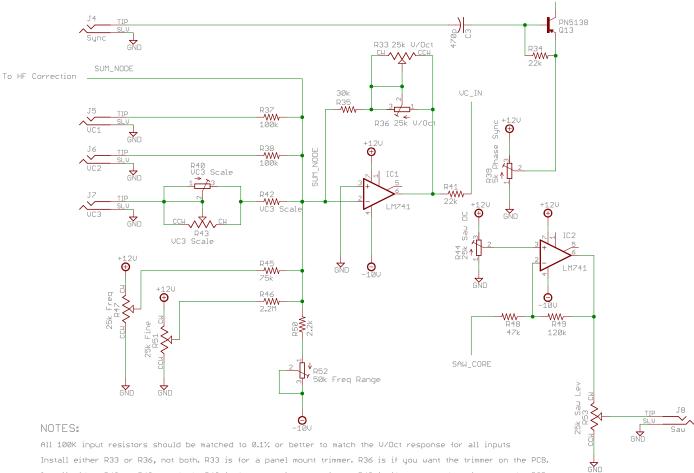
Set min/max wid:

- 1. Turn PW full CCW. (Make sure Q12 is off. Short base to emitter if you want to be sure).
- 2. Adjust R28 towards the positive supply (CW) until a minimum pulse width is achieved
- 3. PW knob full CW, (unshort Q12 if needed). Adjust R23 for minimum width

Changed R21 from 68k to 33k to put 5 Volts on wiper when full CW.



Copyright 1976, 2010 Nyle Steiner and Analoogue Realities. All rights reserved



All 100K input resistors should be matched to 0.1% or better to match the V/Oct response for all inputs

Install either R33 or R36, not both. R33 is for a panel mount trimmer. R36 is if you want the trimmer on the PCB.

Install either R40 or R43, not both. R43 is for a panel mount trimmer. R40 is if you want the trimmer on the PCB.

R40 or R43, and R42 are selected as wanted. R42=22k and R40 or R43 = 200k are a starting point. Choose these values to allow this input to tune to the desired scale with respect to the other two inputs.

If you don't want a variable scale on UC3, install a matched 100k resistor in R42 and jumper either R40 or R43.

TITLE: Voltage Controlled Oscillator

Document Number: REV:

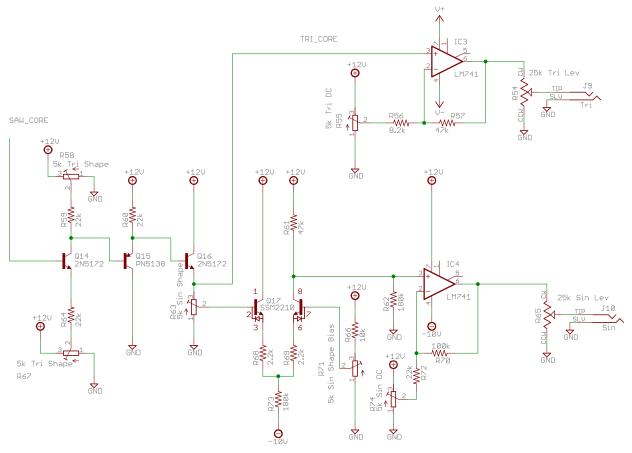
Realities. All rights reserved

Date: 3/22/2011 12:58:53 AM Sheet: 3/4

SPVCO_A_1.6

SYNC

Copyright 1976, 2010 Nyle Steiner and Analoogue Realities. All rights reserved



For normal building, install R58 and do not install R67 (trimmers). Install a jumper between pins 1 and 2 on R67's footprint.

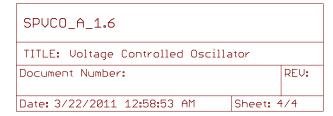
That is, R64 should connect to ground in a normal build.

If triangle shape can't be adjusted with R58, uninstall R58 and install a jumper between pins 2 and 3.

That is, R59 should connect to +12V

Uninstall the jumper at R67 and install R67 instead. Adjust the triangle shape with R67.

Q17 can be a monolithic pair like SSM2210 or matched/unmatched NPNs



Copyright 1976, 2010 Nyle Steiner and Analoogue Realities. All rights reserved