



**Notes:**

1. Not shown: power supplies, compensation capacitors, bypassing, etc.
2. The feedback capacitors (20pf) will probably need to be 'tuned'. This is somewhat layout dependent as well as opamp dependent. Use a square wave generator and adjust each capacitor for best square-wave response.
3. The diff-amp, U4 needs two 20pf capacitors. When 'tuning' the value both capacitors should be the same value.
4. 50k pots are ganged together. Ideally, they would be center tapped. You could also use a multi-position switch instead. Both pots are linear taper.
5. Opamps are NE5532, OP-275, etc.
6. Blocking capacitors are not shown. Use them if this is compatible with your religion.
7. The dual-50k control adjusts the 'stereo-ness' of the output, from mono at one extreme, thru normal stereo in the middle, to super-stereo at the other extreme.
8. It's amazing what you can do with 10k resistors!

Title: M-S Matrix #3  
 Drawn by: Rick Chinn  
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 Last Mod. Date:  
 Comments:  
 Page Number: 1 of 1