marjan's Mad Mouse Mod Page

I finally found time to make this mods. When I projected my mm deluxe I ended up with lots of pots and switches for various modulation connecting and levels of modulations, so I thought of making all possible ins and outs of mm, put jacks on them, make few (5) attenuators with jacks for in and wiper out (voltage divider configuration), so I'd have 5 max modulation routing, plus few multiples. Thats the idea, to keep mm small, and just to add "field" with jacks (like on ms 20) and attenuators for modulation.

fig1: Added all ins and outs (jacks), include your mods for fine and coarse freq of each vco, and pw/pwm waveforms selectable (not shown), sync (simplified,you don't need that another res in series with switch), lp/hp switch on vcf, eg1 mode to ADSR (without 4016),eg2 mode to have switchable on/off sustain and release (from multimoog) , lfo1 got level control on panel, manual trig (like gnome), lfo1 range lo/normal speed, vcf switch for eg 1/2, vca sw for eg 1/2. Vco 1+2 cv in controls both vcos. All jacks should be in close position (3.5mm mini jacks) for shorter connections.Couple of multiples (3-4 shorted jacks). Maybe add heated vco version. NOTE: on your schematic vcas for lfo and VCA are mixed pins (on pcb 13600 pin 5 is out for lfo vca not audio VCA but schematic is other way around and so for all pins).

List of jacks:

CV IN

GLIDE CV OUT

VCO 1+2 CV IN

VCO 1 CV1 IN

VCO 1 CV2 IN

VCO 2 CV1 IN

VCO 2 CV2 IN

VCO 1 SAW OUT

VCO 2 SAW OUT

VCO 1 SQUARE OUT

VCO 2 SQUARE OUT

VCO 1 PWM IN

VCO 2 PWM IN

VCF AUDIO IN 1

VCF AUDIO IN 2

VCF OUT

VCF CV IN 1

VCF CV IN 2

VCA AUDIO IN

VCA CV IN

ENV 1 OUT

ENV 2 OUT

GATE IN

NOISE OUT

LFO 1 TRI OUT

LFO 1 SQR OUT

LFO 2 TRI OUT

LFO 2 SQR OUT

S/H IN

S/H CLK IN

S/H OUT

SUB IN

SUB 1 OCT OUT

SUB 2 OCT OUT

SUB 2 OCT PULSE OUT

RING MODULATOR OUT

MULTIPLE A 1-2-3

MULTIPLE B 1-2-3

ATTENUATOR 1 IN

ATTENUATOR 1 OUT

ATTENUATOR 2 IN

ATTENUATOR 2 OUT

ATTENUATOR 3 IN

ATTENUATOR 3 OUT

ATTENUATOR 4 IN

ATTENUATOR 4 OUT

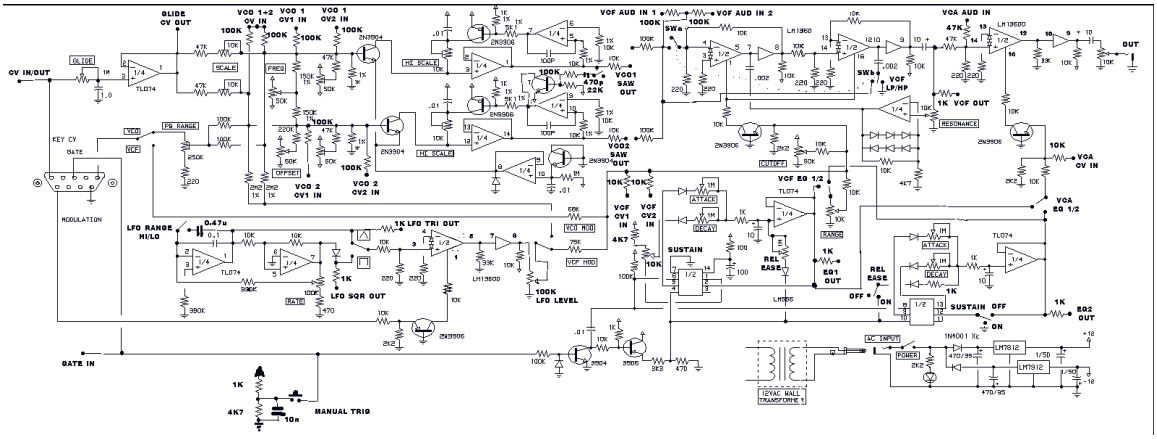
ATTENUATOR 5 IN

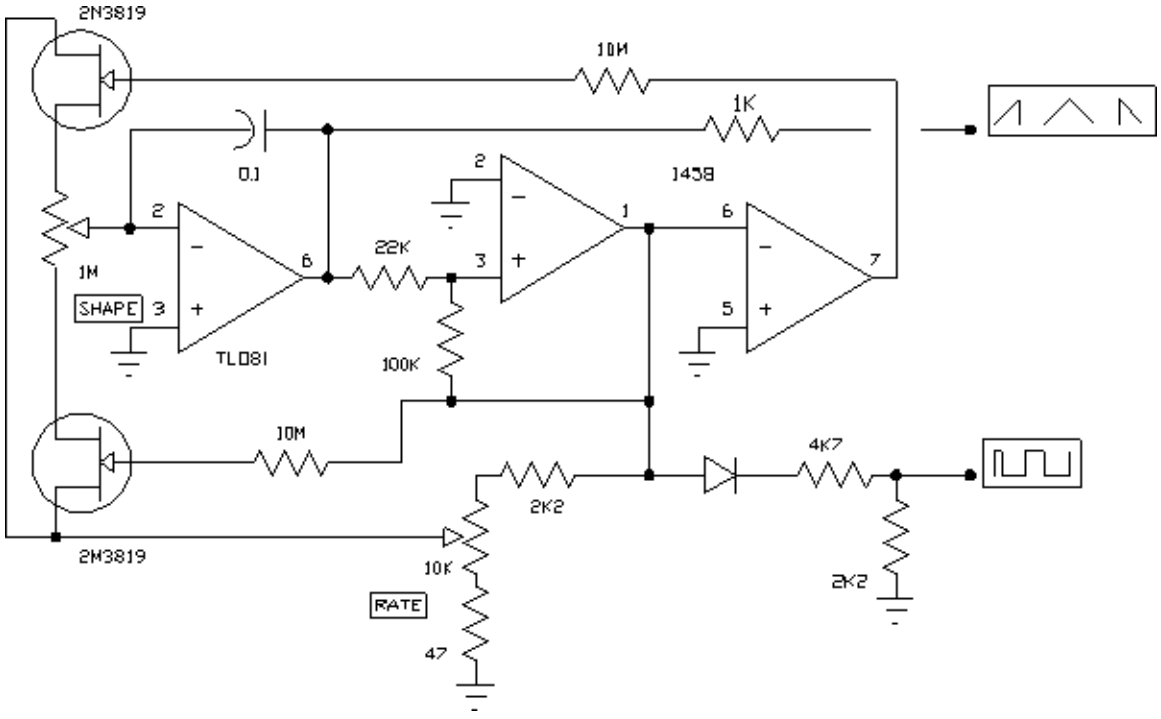
ATTENUATOR 5 OUT

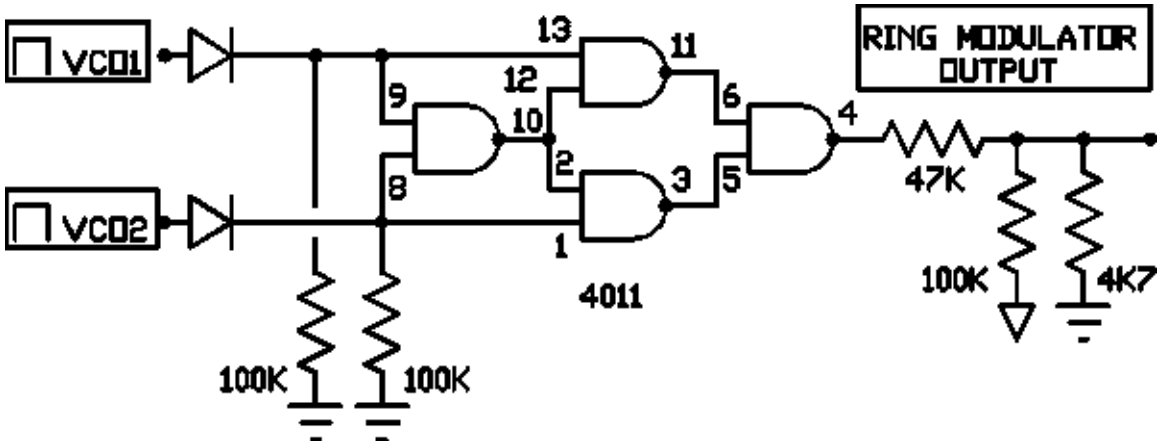
I'd add -simple ringmodulator (XOR) from ms20 for square vco outs, -noise (maybe hardwired to pot for mixing with vcos) -s/h from sh09 (not hardwired to anything) -subdivider from sh101, maybe one or for each vco with 3 outputs 1/2 oct below and 2 oct narrow pulse maybe hardwired for mixing with vcos via selector switch for sub oct and level pot -lfo 2 from ms 20 with continuous change of waveforms -maybe env follower and preamp from your maxx2 -some simple HEADPHONE AMP (crucial for fun!) maybe like in ms20 or something -voltage inverter?

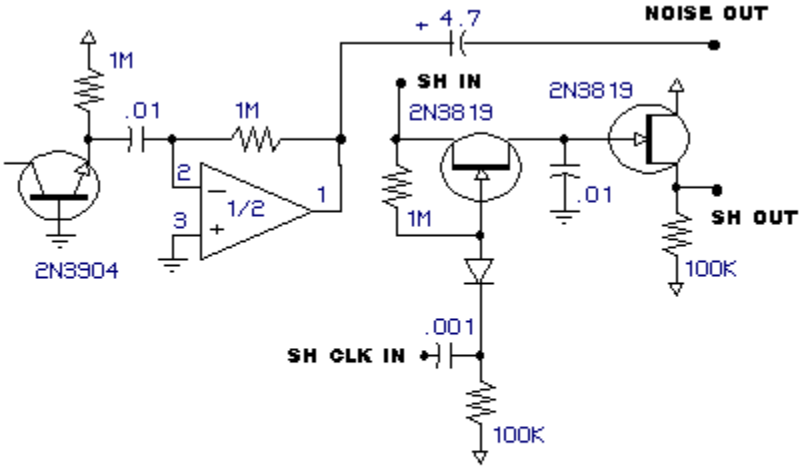
Anyway I think that idea with jacks (cheaper than pots/switch combo) and bunch of attenuators for modulation "patch" save space and cost, making mm minimal modular, compact in size.

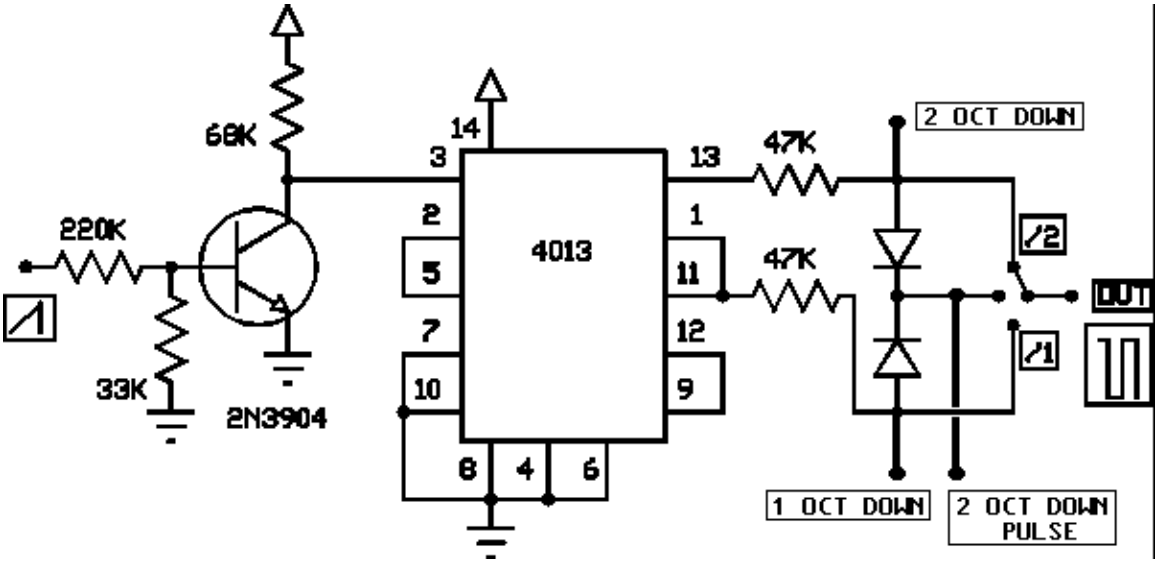
Marjan

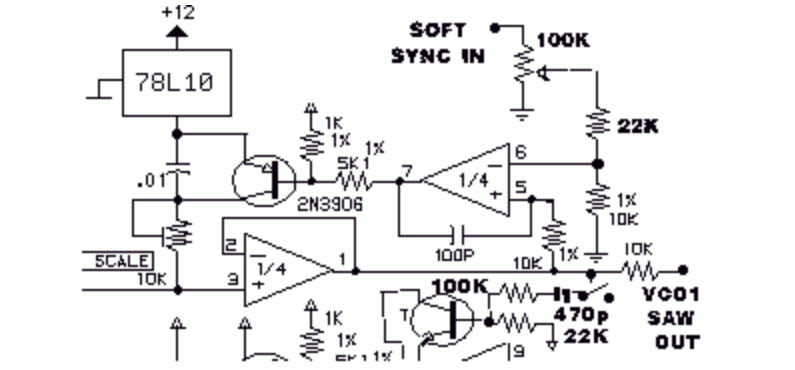



2N3819
10M
1K
0.1
1458
2
1
6
22K
3
1M
SHAPE
3
TL081
100K
5
7
10M
4K7
2K2
2M3819
10K
RATE
47
2K2


VCO1
VCO2
13
11
12
9
10
6
4
2
3
5
8
1
4011
RING MODULATOR OUTPUT
47K
100K
4K7
100K
100K


+ 4.7
NOISE OUT
1M
.01
1M
SH IN
2N3819
2N3819
2
3
1/2
1
.01
SH OUT
1M
100K
2N3904
.001
SH CLK IN
100K


68K
14
3
13
47K
2 OCT DOWN
220K
2
4013
1
/2
5
11
47K
OUT
33K
2N3904
7
12
/1
10
9
8
4
6
1 OCT DOWN
2 OCT DOWN
PULSE


+12
78L10
SOFT
SYNC IN
100K
22K
1K
1%
5K 1%
.01
2N3906
7
1/4
6
5
1%
10K
100P
10K
1%
10K
2
1/4
1
SCALE
10K
3
100K
470p
22K
VCO1
SAW
OUT
1K
1%