

MOOG MUSIC INC.  
EXPLORATION PATCHBOOK

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SUBHARMONIC ON

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10 patches

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**MOOG MUSIC IS AN  
EMPLOYEE-OWNED COMPANY  
BASED IN ASHEVILLE, NC**

Synthesize Love

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# Music for Washing Dishes

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1 STEP 2 STEP 3 STEP 4

**SEQUENCER 2**  
STEP 1 STEP 2 STEP 3 STEP 4

**POLYRHYTHM**  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

**TEMPO**

**OSCILLATORS**

**VCO 1**  
VCO 1 WAVE  
VCO 1 FREQ  
SUB 1 FREQ SUB 2 FREQ  
VCO 1 LEVEL  
SUB 1 LEVEL SUB 2 LEVEL

**VCO 2**  
VCO 2 WAVE  
VCO 2 FREQ  
SUB 1 FREQ SUB 2 FREQ  
VCO 2 LEVEL  
SUB 1 LEVEL SUB 2 LEVEL

**CUTOFF**

**VOLUME**

**RESONANCE**

**VCF EG AMT**

**VCF ATTACK**

**VCF DECAY**

**VCA ATTACK**

**VCA DECAY**

**IN / OUT**

VCO 1 VCO 1 SUB VCO 1 PWM VCA  
VCO 2 VCO 2 SUB VCO 2 PWM VCA EG  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4  
SEQ 1 SEQ 1 CLK SEQ 2 SEQ 2 CLK  
MIDI IN CLOCK BLOCK TRIGGER

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**NOTES:** Play with VCF ATTACK to add dish soap.

# Shuffled Subs

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1, STEP 2, STEP 3, STEP 4

**SEQUENCER 2**  
STEP 1, STEP 2, STEP 3, STEP 4

**POLYRHYTHM**  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4

**TEMPO**

**OSCILLATORS**  
VCO 1 WAVE, VCO 2 WAVE  
VCO 1 FREQ, VCO 2 FREQ  
SUB 1 FREQ, SUB 2 FREQ  
VCO 1 LEVEL, VCO 2 LEVEL  
SUB 1 LEVEL, SUB 2 LEVEL

**CUTOFF**

**VOLUME**

**RESONANCE**

**VCF EG AMT**

**VCF ATTACK**

**VCF DECAY**

**VCA ATTACK**

**VCA DECAY**

**IN / OUT**  
VCO 1, VCO 1 SUB, VCO 1 PWM, VCA  
VCO 2, VCO 2 SUB, VCO 2 PWM, VCA  
CUTOFF, VCF EG, VCF DECAY, VCA  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4  
SEQ 1, SEQ 2, SEQ 1 CLK, SEQ 2 CLK  
MIDI IN, CLOCK, BLOCK, TRIGGER

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**NOTES:** Tune VCO 1 and VCO 2 together. As sequence plays, adjust bassline with VCO 1's SUB 1 FREQ.

# Nosferatu's Flotation Tank

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1 STEP 2 STEP 3 STEP 4

**SEQUENCER 2**  
STEP 1 STEP 2 STEP 3 STEP 4

**POLYRHYTHM**  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

**TEMPO**

**OSCILLATORS**  
VCO 1 FREQ VCO 2 FREQ  
SUB 1 FREQ SUB 2 FREQ  
VCO 1 WAVE VCO 2 WAVE  
VCO 1 LEVEL VCO 2 LEVEL  
SUB 1 LEVEL SUB 2 LEVEL

**CUTOFF**  
**VOLUME**  
**RESONANCE**  
**VCF EG AMT**  
**VCF ATTACK**  
**VCF DECAY**  
**VCA ATTACK**  
**VCA DECAY**

**IN / OUT**  
VCO 1 VCO 1 SUB VCO 1 PWM VCA  
VCO 2 VCO 2 SUB VCO 2 PWM VCA EG  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4  
MIDI IN CLOCK BLOCK TRIGGER

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**NOTES:** Tune VCO 1 a perfect fourth below VCO 2. Try playing with SEQ buttons in the POLYRHYTHM section for new patterns.



# Transistor Insects

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1 STEP 2 STEP 3 STEP 4

**SEQUENCER 2**  
STEP 1 STEP 2 STEP 3 STEP 4

**POLYRHYTHM**  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

**TEMPO**

**OSCILLATORS**  
VCO 1 WAVE VCO 2 WAVE  
VCO 1 FREQ VCO 2 FREQ  
SUB 1 FREQ SUB 2 FREQ  
SEQ OCT  
OSC 1 SUB 1 SUB 2  
OSC 2 SUB 1 SUB 2  
VCO 1 LEVEL VCO 2 LEVEL  
SUB 1 LEVEL SUB 2 LEVEL  
QUANTIZE

**CUTOFF**  
**RESONANCE**  
**VCF EG AMT**  
**VCF ATTACK**  
**VCF DECAY**  
**VCA ATTACK**  
**VCA DECAY**

**IN / OUT**  
VCO 1 VCO 1 SUB VCO 1 PWM VCA  
VCO 2 VCO 2 SUB VCO 2 PWM VCA  
CUTOFF  
PLAY RESET TRIGGER VCF EG  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4  
SEQ 1 SEQ 1 CLK SEQ 2 SEQ 2 CLK  
MIDI IN CLOCK BLOCK TRIGGER

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**NOTES:** Play with SEQUENCER and POLYRHYTHM settings!

# Neon Cactus Tips Their Cap

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1, STEP 2, STEP 3, STEP 4

**SEQUENCER 2**  
STEP 1, STEP 2, STEP 3, STEP 4

**POLYRHYTHM**  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4

**TEMPO**  
RESET, EG, NEXT, PLAY, TRIGGER

**OSCILLATORS**  
VCO 1 WAVE, VCO 2 WAVE, SEQ OCT, QUANTIZE

**SUBHARMONICON**  
VCO 1 FREQ, VCO 2 FREQ, SUB 1 FREQ, SUB 2 FREQ, VCO 1 LEVEL, VCO 2 LEVEL, SUB 1 LEVEL, SUB 2 LEVEL

**CUTOFF**  
CUTOFF, RESONANCE, VCF ATTACK, VCF DECAY, VCA ATTACK, VCA DECAY

**VOLUME**  
VOLUME, VCF EG AMT

**IN / OUT**

VCO 1	VCO 1 SUB	VCO 1 PWM	VCA
VCO 1	VCO 1 SUB 1	VCO 1 SUB 2	VCA
VCO 2	VCO 2 SUB	VCO 2 PWM	VCA EG
VCO 2	VCO 2 SUB 1	VCO 2 SUB	CUTOFF
PLAY	RESET	TRIGGER	VCF EG
RHYTHM 1	RHYTHM 2	RHYTHM 3	RHYTHM 4
SEQ 1	SEQ 1 CLK	SEQ 2	SEQ 2 CLK
MIDI IN	CLOCK	CLOCK	TRIGGER

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NOTES:

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# Duet for Tone and Wind

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1 STEP 2 STEP 3 STEP 4

**SEQUENCER 2**  
STEP 1 STEP 2 STEP 3 STEP 4

**POLYRHYTHM**  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

**TEMPO**

**OSCILLATORS**

VCO 1 WAVE VCO 2 WAVE

VCO 1 FREQ VCO 2 FREQ

SUB 1 FREQ SUB 2 FREQ

OSC 1 SUB 1 SUB 2 OSC 2 SUB 1 SUB 2

VCO 1 LEVEL VCO 2 LEVEL

SUB 1 LEVEL SUB 2 LEVEL

SEQ OCT

QUANTIZE

**CUTOFF**

**VOLUME**

**RESONANCE**

**VCF EG AMT**

**VCF ATTACK**

**VCF DECAY**

**VCA ATTACK**

**VCA DECAY**

**IN / OUT**

VCO 1 VCO 1 SUB VCO 1 PWM VCA  
VCO 1 VCO 1 SUB 1 VCO 1 SUB 2 VCA  
VCO 2 VCO 2 SUB VCO 2 PWM VCA EG  
VCO 2 VCO 2 SUB 1 VCO 2 SUB 2 CUTOFF  
PLAY RESET TRIGGER VCF EG  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4  
SEQ 1 SEQ 1 SEQ 2 SEQ 2 CLK  
MIDI IN CLOCK BLOCK TRIGGER

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**NOTES:** Play with VCF ATTACK, RHYTHM 1, and RHYTHM 2 to find new patterns in wind sound.



# Touchtone Wiretap

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1 STEP 2 STEP 3 STEP 4

**SEQUENCER 2**  
STEP 1 STEP 2 STEP 3 STEP 4

**POLYRHYTHM**  
RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

**TEMPO**

**OSCILLATORS**

VCO 1 WAVE VCO 2 WAVE

VCO 1 FREQ VCO 2 FREQ

SUB 1 FREQ SUB 2 FREQ

SEQ 1 ASSIGN SEQ 2 ASSIGN

VCO 1 LEVEL VCO 2 LEVEL

SUB 1 LEVEL SUB 2 LEVEL

**CUTOFF**

**VOLUME**

**RESONANCE**

**VCF EG AMT**

**VCF ATTACK**

**VCF DECAY**

**VCA ATTACK**

**VCA DECAY**

**IN / OUT**

VCO 1 VCO 1 SUB VCO 1 PWM VCA

VCO 2 VCO 2 SUB VCO 2 PWM VCA EG

CUTOFF VCF EG

PLAY RESET TRIGGER VCF EG

RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

SEQ 1 SEQ 1 CLK SEQ 2 SEQ 2 CLK

MIDI IN CLOCK BLOCK TRIGGER

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**NOTES:** Adjust VCO 1's SUB 1 FREQ to change rhythm.

# Ant Parade

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1, STEP 2, STEP 3, STEP 4

**SEQUENCER 2**  
STEP 1, STEP 2, STEP 3, STEP 4

**POLYRHYTHM**  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4

**TEMPO**

**OSCILLATORS**  
VCO 1 WAVE, VCO 2 WAVE  
VCO 1 FREQ, VCO 2 FREQ  
SUB 1 FREQ, SUB 2 FREQ  
VCO 1 LEVEL, VCO 2 LEVEL  
SUB 1 LEVEL, SUB 2 LEVEL

**CUTOFF**

**VOLUME**

**RESONANCE**

**VCF EG AMT**

**VCF ATTACK**

**VCF DECAY**

**VCA ATTACK**

**VCA DECAY**

**IN / OUT**  
VCO 1, VCO 1 SUB, VCO 1 PWM, VCA  
VCO 2, VCO 2 SUB, VCO 2 PWM, VCA  
VCO 2 SUB 1, VCO 2 SUB 2  
PLAY, RESET, TRIGGER  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4  
SEQ 1, SEQ 2, SEQ 1 CLK, SEQ 2 CLK  
MIDI IN, BLOCK, TRIGGER

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**NOTES:** Fade in VCO 2's SUB 1+2 for extra low end. Play with VCF ATTACK, VCF DECAY, and both sequencers to explore ant marching patterns.

# Octave Fuzz

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**SEQUENCER 1**  
STEP 1, STEP 2, STEP 3, STEP 4

**SEQUENCER 2**  
STEP 1, STEP 2, STEP 3, STEP 4

**POLYRHYTHM**  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4

**TEMPO**  
RESET, EG, NEXT, PLAY, TRIGGER

**OSCILLATORS**  
VCO 1 WAVE, VCO 2 WAVE  
VCO 1 FREQ, VCO 2 FREQ  
SUB 1 FREQ, SUB 2 FREQ  
VCO 1 LEVEL, VCO 2 LEVEL  
SUB 1 LEVEL, SUB 2 LEVEL  
SEQ OCT, SEQ ASSIGN, QUANTIZE

**CUTOFF**  
RESONANCE  
VCF ATTACK  
VCA ATTACK

**VOLUME**  
VCF EG AMT  
VCF DECAY  
VCA DECAY

**IN / OUT**  
VCO 1, VCO 1 SUB, VCO 1 PWM, VCA  
VCO 2, VCO 2 SUB, VCO 2 PWM, VCA  
PLAY, RESET, TRIGGER, EG  
RHYTHM 1, RHYTHM 2, RHYTHM 3, RHYTHM 4  
SEQ 1, SEQ 1 CLK, SEQ 2, SEQ 2 CLK  
MIDI IN, CLOCK, BLOCK, TRIGGER

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**NOTES:** SEQ 2 shifts SEQ 1 by  $\pm 1$  octave.

# Aliased Wind Chimes

MATCH ALL KNOBS, SWITCHES, AND PATCH LOCATIONS TO THE GRAPHICS BELOW.

**OSCILLATORS**

**1** VCO 1 WAVE (Sawtooth) VCO 1 FREQ VCO 1 SUB 1 FREQ VCO 1 SUB 2 FREQ VCO 1 LEVEL

**2** VCO 2 WAVE (Square) VCO 2 FREQ VCO 2 SUB 1 FREQ VCO 2 SUB 2 FREQ VCO 2 LEVEL

**CUTOFF** **VOLUME** **RESONANCE** **VCF EG AMT** **VCF ATTACK** **VCF DECAY** **VCA ATTACK** **VCA DECAY**

**IN / OUT**

**SEQUENCER 1** STEP 1 STEP 2 STEP 3 STEP 4

**SEQUENCER 2** STEP 1 STEP 2 STEP 3 STEP 4

**POLYRHYTHM** RHYTHM 1 RHYTHM 2 RHYTHM 3 RHYTHM 4

**TEMPO** RESET EG NEXT PLAY TRIGGER

**OSC OCT** **SEQ ASSIGN** **QUANTIZE**

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## NOTES:

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