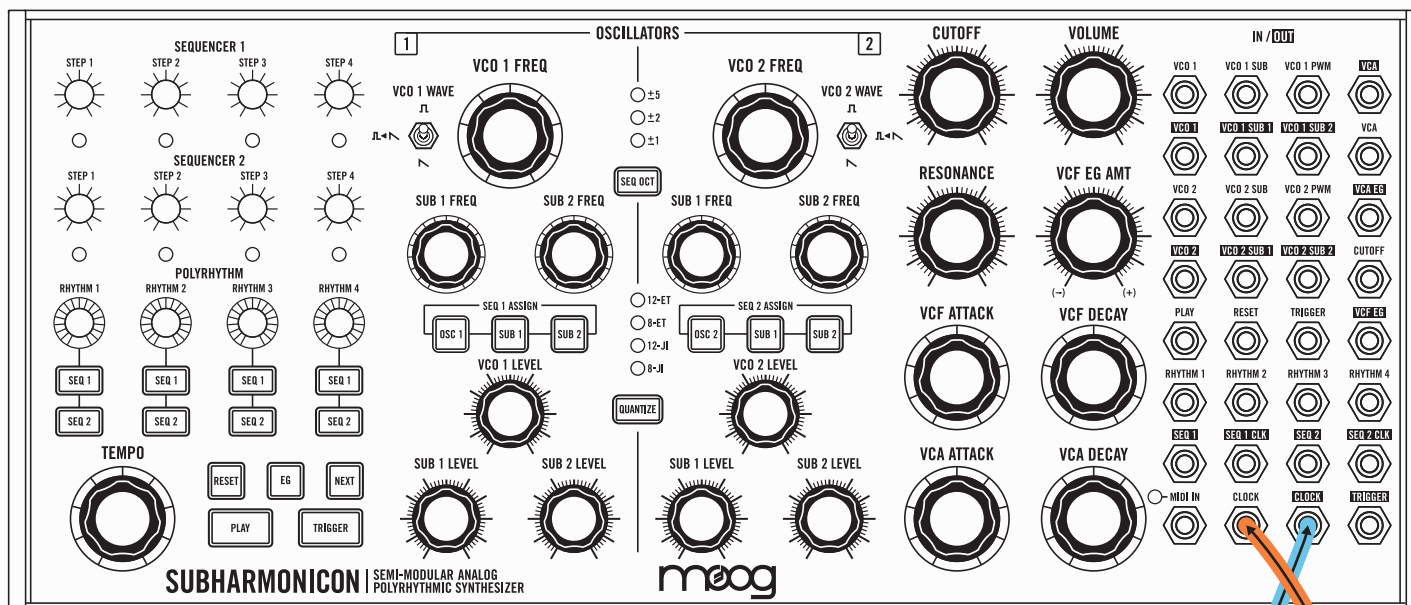
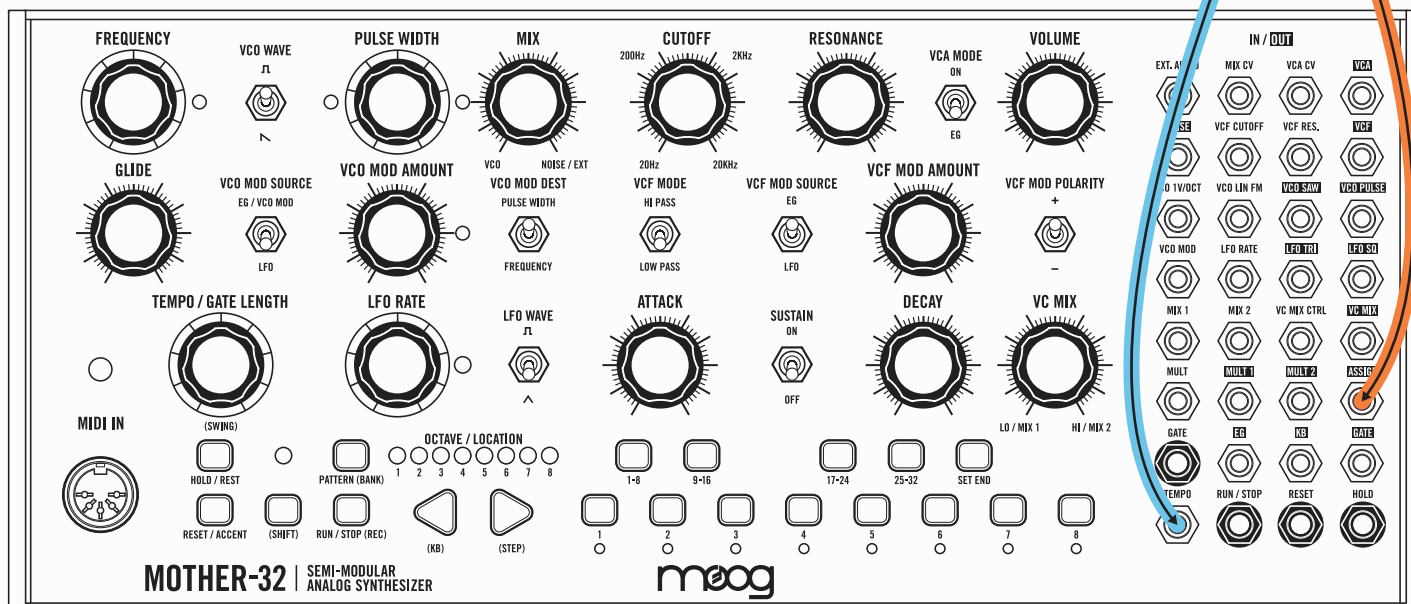


HOW TO CLOCK SYNC: SUBHARMONICON + MOTHER-32



SUBHARMONICON AS MASTER CLOCK

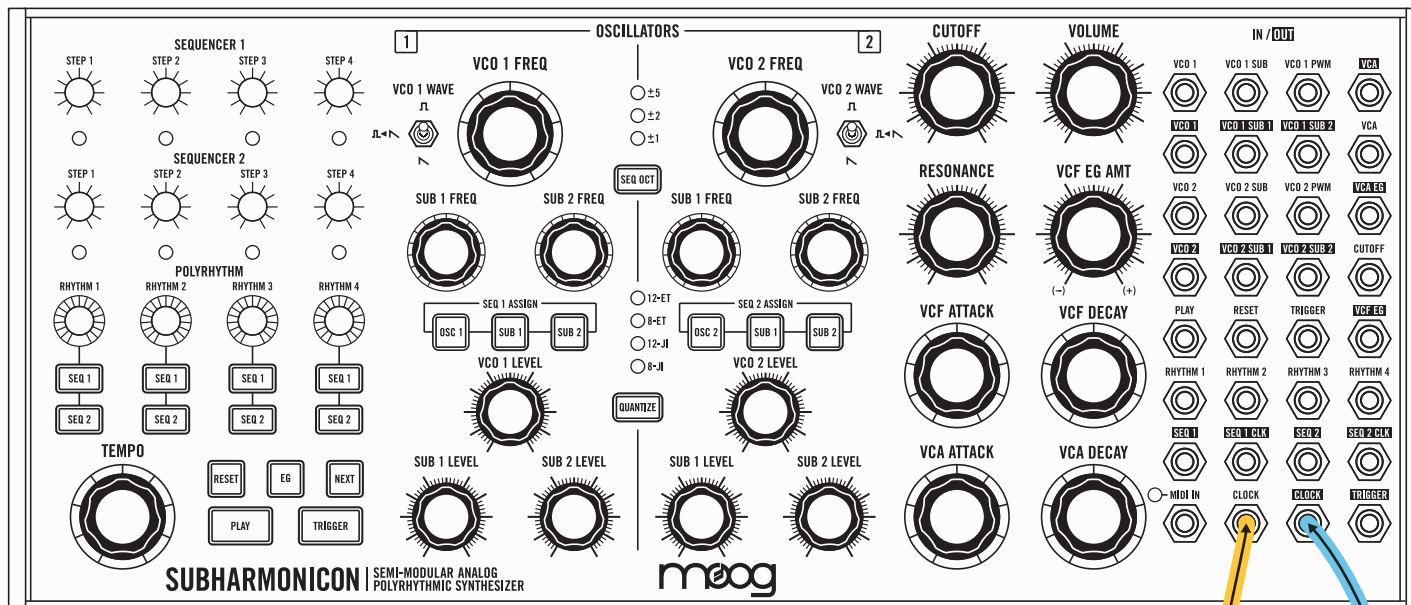
Patch Subharmonic **CLOCK** output to Mother-32 **TEMPO** input.



MOTHER-32 AS MASTER CLOCK

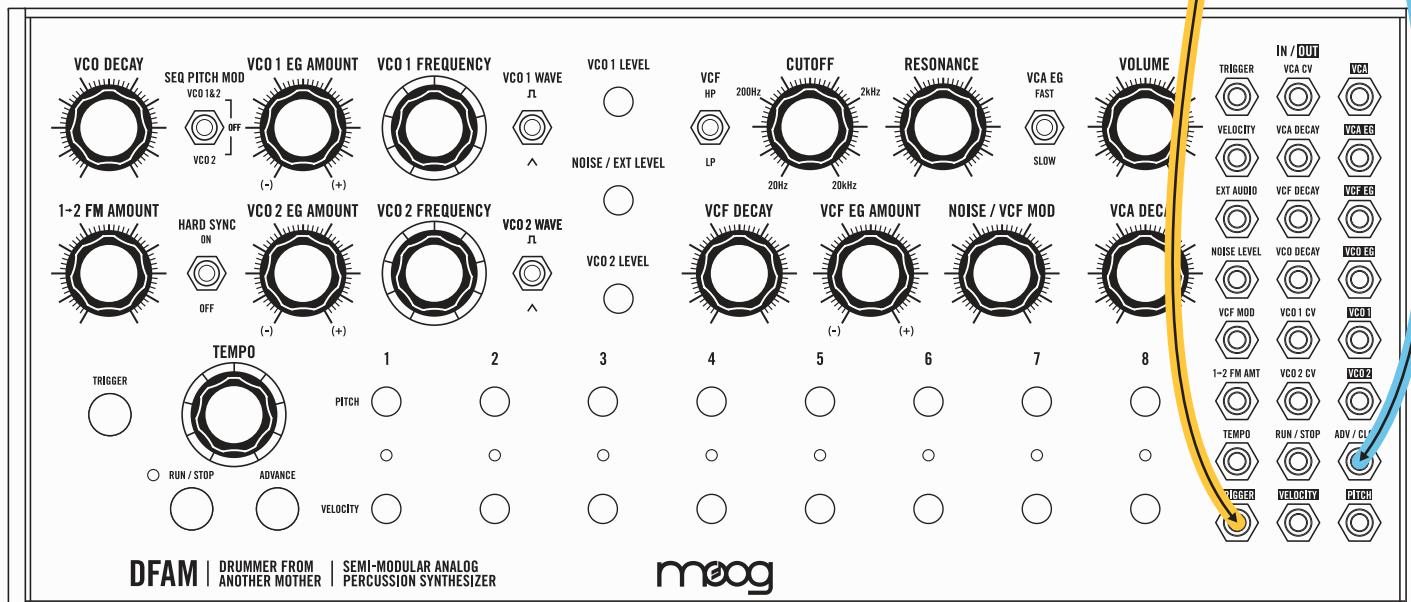
Patch Mother-32 **ASSIGN** output to Subharmonic **CLOCK** input.

HOW TO CLOCK SYNC: SUBHARMONICON + DFAM



SUBHARMONICON AS MASTER CLOCK

Patch Subharmonic **CLOCK** output to DFAM **ADV/CLOCK** input.



DFAM AS MASTER CLOCK

Patch DFAM **TRIGGER** output to Subharmonic **CLOCK** input.

HOW TO CLOCK SYNC: MOTHER-32 AS PRIMARY CLOCK

MOTHER-32 | SEMI-MODULAR ANALOG SYNTHESIZER

The panel includes controls for: FREQUENCY, GLIDE, TEMPO / GATE LENGTH, MIDI IN, VCO WAVE, VCO MOD SOURCE, VCO MOD AMOUNT, LFO RATE, LFO WAVE, MIX, VCO MOD DEST, LFO WAVE, CUTOFF, VCF MODE, ATTACK, SUSTAIN, RESONANCE, VCF MOD SOURCE, DECAY, VCA MODE, VCF MOD AMOUNT, VCF MOD POLARITY, VC MIX, and an IN / OUT section with various jacks and buttons.

Highlighted connections in the IN / OUT section:

- Orange cable: GATE (MOTHER-32) to GATE (IN/OUT)
- Blue cable: TRIGGER (MOTHER-32) to TRIGGER (IN/OUT)
- Yellow cable: TRIGGER (MOTHER-32) to TRIGGER (IN/OUT)

SUBHARMICON | SEMI-MODULAR ANALOG POLYRHYTHMIC SYNTHESIZER

The panel includes controls for: SEQUENCER 1, SEQUENCER 2, POLYRHYTHM, TEMPO, OSCILLATORS (VCO 1 FREQ, VCO 2 FREQ, SUB FREQ, SUB 2 FREQ), CUTOFF, RESONANCE, VCF ATTACK, VCF DECAY, VCA ATTACK, VCA DECAY, and an IN / OUT section.

Highlighted connections in the IN / OUT section:

- Blue cable: TRIGGER (SUBHARMICON) to TRIGGER (IN/OUT)
- Yellow cable: TRIGGER (SUBHARMICON) to TRIGGER (IN/OUT)

DFAM | DRUMMER FROM ANOTHER MOTHER | SEMI-MODULAR ANALOG PERCUSSION SYNTHESIZER

The panel includes controls for: VCO DECAY, VCO 1 EG AMOUNT, VCO 1 FREQUENCY, VCO 1 WAVE, VCO 1 LEVEL, VCF HP, CUTOFF, RESONANCE, VCA FAST, VOLUME, 1-2 FM AMOUNT, HARD SYNC, VCO 2 EG AMOUNT, VCO 2 FREQUENCY, VCO 2 WAVE, VCO 2 LEVEL, VCF DECAY, VCF EG AMOUNT, NOISE / VCF MOD, VCA DECAY, and an IN / OUT section.

Highlighted connections in the IN / OUT section:

- Yellow cable: TRIGGER (DFAM) to TRIGGER (IN/OUT)

HOW TO CLOCK SYNC: DFAM AS PRIMARY CLOCK

DFAM | DRUMMER FROM ANOTHER MOTHER | SEMI-MODULAR ANALOG PERCUSSION SYNTHESIZER

meoog

DFAM module panel features the following controls:

- VCO DECAY**: Knob for VCO 1&2 decay.
- SEQ PITCH MOD**: Knob for VCO 1&2 pitch modulation.
- VCO 1 EG AMOUNT**: Knob for VCO 1 envelope generator amount.
- VCO 1 FREQUENCY**: Knob for VCO 1 frequency.
- VCO 1 WAVE**: Waveform selector for VCO 1.
- VCO 1 LEVEL**: Knob for VCO 1 level.
- VCF HP**: High Pass filter knob.
- CUTOFF**: Knob for VCF cutoff frequency.
- RESONANCE**: Knob for VCF resonance.
- VCA EG FAST**: Knob for VCA envelope generator.
- VOLUME**: Knob for VCA volume.
- 1-2 FM AMOUNT**: Knob for FM amount.
- HARD SYNC**: On/Off switch.
- VCO 2 EG AMOUNT**: Knob for VCO 2 envelope generator amount.
- VCO 2 FREQUENCY**: Knob for VCO 2 frequency.
- VCO 2 WAVE**: Waveform selector for VCO 2.
- VCO 2 LEVEL**: Knob for VCO 2 level.
- VCF DECAY**: Knob for VCF decay.
- VCF EG AMOUNT**: Knob for VCF envelope generator amount.
- NOISE / VCF MOD**: Knob for noise/VCF modulation.
- VCA DECAY**: Knob for VCA decay.
- TRIGGER**: Button for triggering.
- TEMPO**: Knob for tempo.
- PITCH**: Knob for pitch.
- 1-2 FM AMT**: Knob for FM amount.
- TRIGGER**: Button for triggering.
- VELOCITY**: Knob for velocity.
- IN / OUT**: I/O ports for TRIGGER, VCA CV, VCA, VELOCITY, VCA DECAY, VCF EG, EXT AUDIO, VCF DECAY, VCF EG, NOISE LEVEL, VCO DECAY, VCO EG, VCF MOD, VCO 1 CV, VCO 1, 1-2 FM AMT, VCO 2 CV, VCO 2, TEMPO, RUN / STOP, ADV / CLOCK, TRIGGER, VELOCITY, PITCH.

SUBHARMICON | SEMI-MODULAR ANALOG POLYRHYTHMIC SYNTHESIZER

meoog

SUBHARMICON module panel features the following controls:

- SEQUENCER 1**: STEP 1-4 buttons.
- SEQUENCER 2**: STEP 1-4 buttons.
- POLYRHYTHM**: RHYTHM 1-4 buttons.
- TEMPO**: Knob for tempo.
- RESET**, **EG**, **NEXT**, **PLAY**, **TRIGGER**: Buttons.
- OSCILLATORS**: VCO 1 FREQ, VCO 2 FREQ, VCO 1 WAVE, VCO 2 WAVE, 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**: Knobs.
- IN / OUT**: I/O ports for VCO 1 SUB, VCO 1 PWM, VCA, VCO 1 SUB 1, VCO 1 SUB 2, VCA, VCO 2, VCO 2 SUB, VCO 2 PWM, VCF EG, 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 CLK, SEQ 2, SEQ 2 CLK, MOD IN, CLOCK, CLOCK, TRIGGER.

MOTHER-32 | SEMI-MODULAR ANALOG SYNTHESIZER

meoog

MOTHER-32 module panel features the following controls:

- FREQUENCY**, **VCO WAVE**, **PULSE WIDTH**, **MIX**, **CUTOFF**, **RESONANCE**, **VCA MODE**, **VOLUME**: Knobs.
- GLIDE**, **VCO MOD SOURCE**, **VCO MOD AMOUNT**, **VCO MOD DEST**, **VCF MODE**, **VCF MOD SOURCE**, **VCF MOD AMOUNT**, **VCF MOD POLARITY**, **VC MIX**: Knobs.
- TEMPO / GATE LENGTH**, **LFO RATE**, **LFO WAVE**, **ATTACK**, **SUSTAIN**, **DECAY**: Knobs.
- MIDI IN**: Button.
- HOLD / REST**, **RESET / ACCENT**, **PATTERN (BANK)**, **OCTAVE / LOCATION**, **RESET / STOP**, **RESET**, **HOLD**: Buttons.
- IN / OUT**: I/O ports for EXT. AUDIO, CV, VCA CV, VCA, NOISE, VCF CU, VCF RES., VCF, VCO 1V/OCT, VCO LIN FM, VCO SAW, VCO PULSE, VCO MOD, LFO RATE, FDI TRI, LFO SH, VCO MIX, MIX 1, MIX 2, MIX CTRL, VCF MIX, MULT, MULT 1, MULT 2, ASSIGN, GATE, EG, GATE, TEMPO, RUN / STOP, RESET, HOLD.

HOW TO CLOCK SYNC: SUBHARMANICON AS PRIMARY CLOCK

SUBHARMONICON | SEMI-MODULAR ANALOG POLYRHYTHMIC SYNTHESIZER

The Subharmonicon panel features two sequencers (SEQ 1 and SEQ 2) with step 1-4 controls, four rhythm wheels (RHYTHM 1-4), and a tempo knob. The oscillator section includes VCO 1 and VCO 2 with frequency, level, and wave controls, plus sub-oscillators. Filter and envelope sections include resonance, VCF attack/decay, and VCA attack/decay. The I/O section on the right contains numerous jacks and buttons for routing and triggering.

MOTHER-32 | SEMI-MODULAR ANALOG SYNTHESIZER

The Mother-32 panel includes a frequency knob, VCO wave selector, and pulse width/mix controls. It features VCO modulation sources (LFO, EG) and destinations (Pulse Width, Frequency). Filter and envelope sections include cutoff, resonance, VCF modulation, and VCA mode. The I/O section on the right includes a MIDI IN, various audio jacks, and a clock input.

DFAM | DRUMMER FROM ANOTHER MOTHER | SEMI-MODULAR ANALOG PERCUSSION SYNTHESIZER

The DFAM panel features VCO decay and EG amount controls for two oscillators, VCO frequency and wave selection, and VCO level controls. It includes VCF decay and EG amount controls, as well as noise/VCF modulation. The I/O section on the right includes a trigger, velocity, and clock inputs, along with various audio jacks.

