MATRIARCH™

EXPLORATION PATCHBOOK

MOOG MUSIC IS AN

EMPLOYEE-OWNED COMPANY

BASED IN ASHEVILLE, NC

Synthesize Love

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MATRIARCH SEQUENCER

CREATE A SEQUENCE

RECORD A SEQUENCE:

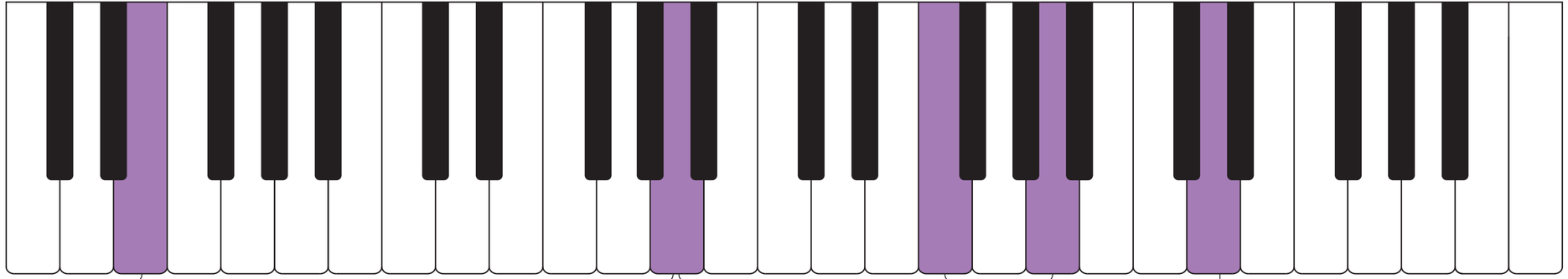
- Follow steps 1-7 under the keyboard illustration.

PLAYBACK YOUR SEQUENCE:

- Set the **MODE** switch to the **SEQ** position.
- Press the **PLAY** button (located on the left-hand controller), then press and hold down any note to playback your sequence.
- Press the **HOLD** button to allow the sequence to continue playing after your hand is lifted from the keyboard.
- The Arp/Seq **RATE** knob adjusts the playback speed.

NOTE: *You may transpose your sequence by playing a new note.*

NOTE: *This will arm Sequence 1.*



1. ARM THE SEQUENCER

To arm the Sequencer for recording, set the **MODE** switch to the **REC** position.

NOTE: *Matriarch provides a total of 12 sequence locations, which are accessible by using the four-position **SEQUENCE** knob and the **OCT/ BANK** switch.*

2. PLAY A NOTE

This is the first note of your sequence.

NOTE: *With the **VOICE MODE** switch set to **2** or **4** (paraphonic mode), you can record up to four notes simultaneously on a single step.*

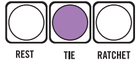
3. ADD A REST

NOTE: *During playback, this step will be silent.*

4. ADD A NOTE

This is the second note of your sequence.

5. ADD A TIE



Press the **TIE** button and play the same note (from Step 4) again.

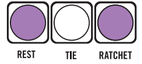
6. ADD A TIE (LEGATO)

Press and hold a new note. While holding that note, press another note.

NOTE: *During playback, the transition between these two notes will be smooth, without a break.*

This method of adding a tie between notes will only work in 1-Voice monophonic mode.

7. ADD A REST + NOTE + RATCHET



Finally, press the **REST** button, play a note, and then press the **RATCHET** button a few times. To listen to your recording, follow the steps under **PLAYBACK YOUR SEQUENCE.**

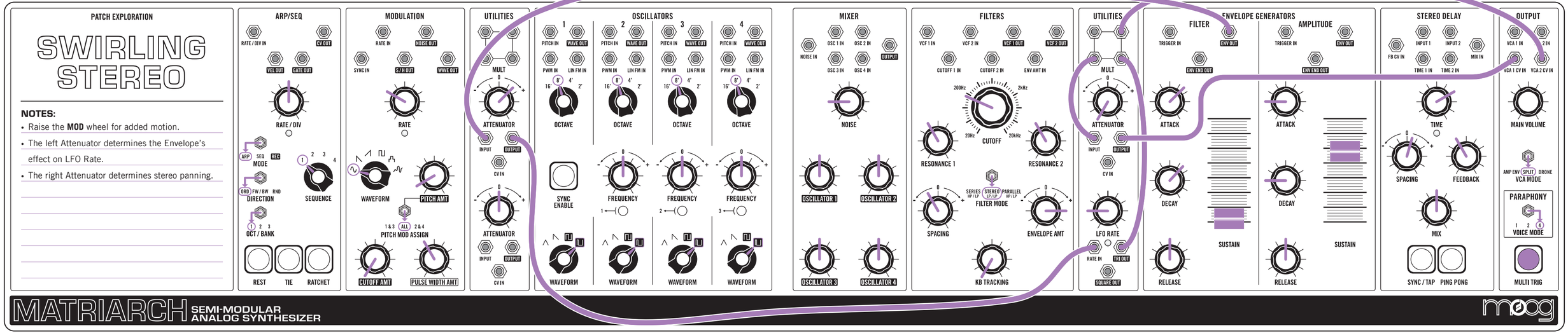
NOTE: *Pressing the **RATCHET** button multiple times will add that number of Ratchets (up to 8) to a single step.*

PATCH EXPLORATION

SWIRLING STEREO

NOTES:

- Raise the **MOD** wheel for added motion.
- The left Attenuator determines the Envelope's effect on LFO Rate.
- The right Attenuator determines stereo panning.

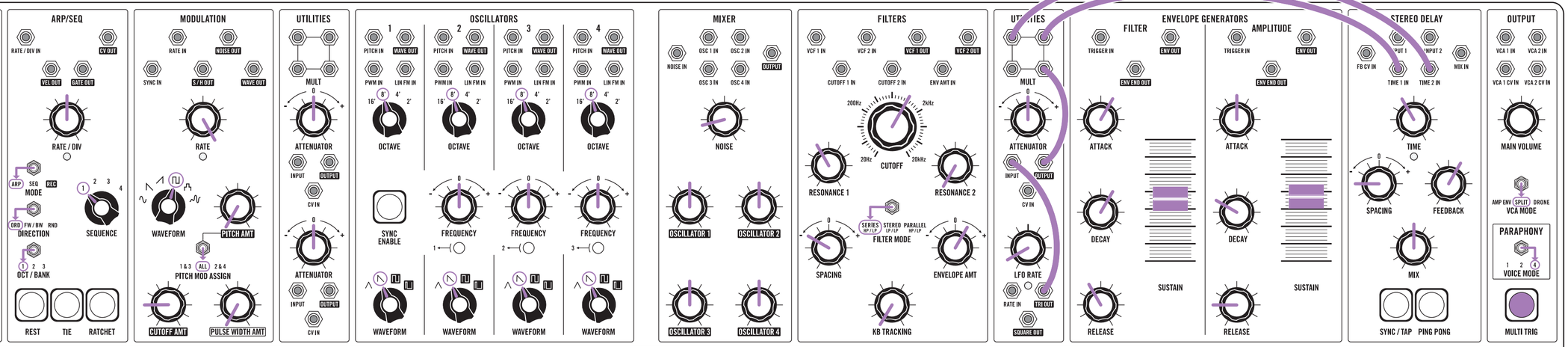


PATCH EXPLORATION

ROBOT DESTRUCTION

NOTES:

- Raise the **MOD** wheel all the way up.
- Fast modulation of the Filter Cutoff creates a robotic voice. Subtle modulation of the Stereo Delay creates space and choral motion.



PATCH TO REAR PANEL

KB CV OUT

PATCH EXPLORATION

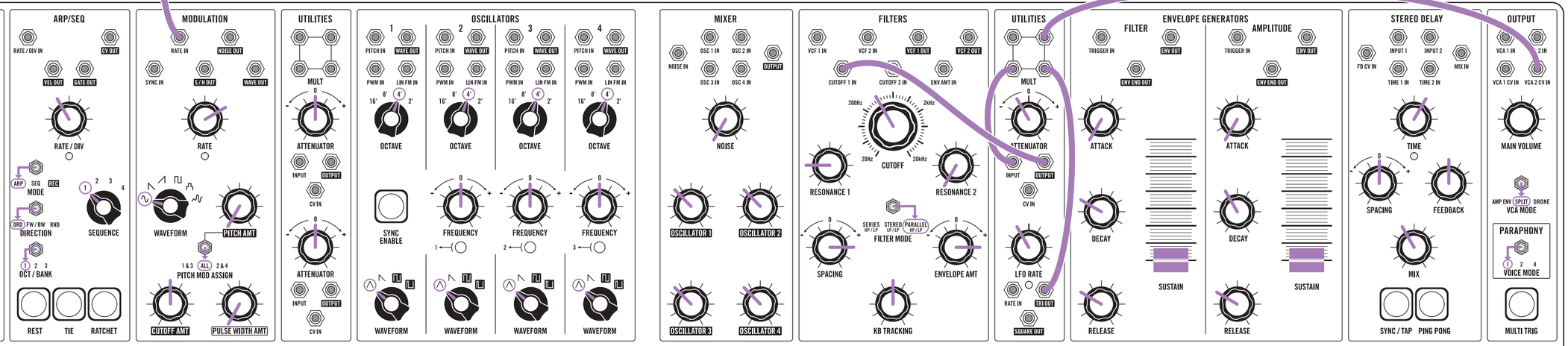
DANCING BELLS

NOTES:

- This patch uses Filter FM to create a bell-like tone blended with a pure lead sound.
- Raise the **MOD** wheel.
- Try turning up the **FREQUENCY** knob on Oscillator 4.
- Lower mixer levels will keep the sound cleaner.
- Add a little Noise in the mixer to open up the sound a bit.

TRY THIS:

- Adjust the Modulation **RATE** knob to change the tone of the bells.



MATRIARCH SEMI-MODULAR ANALOG SYNTHESIZER

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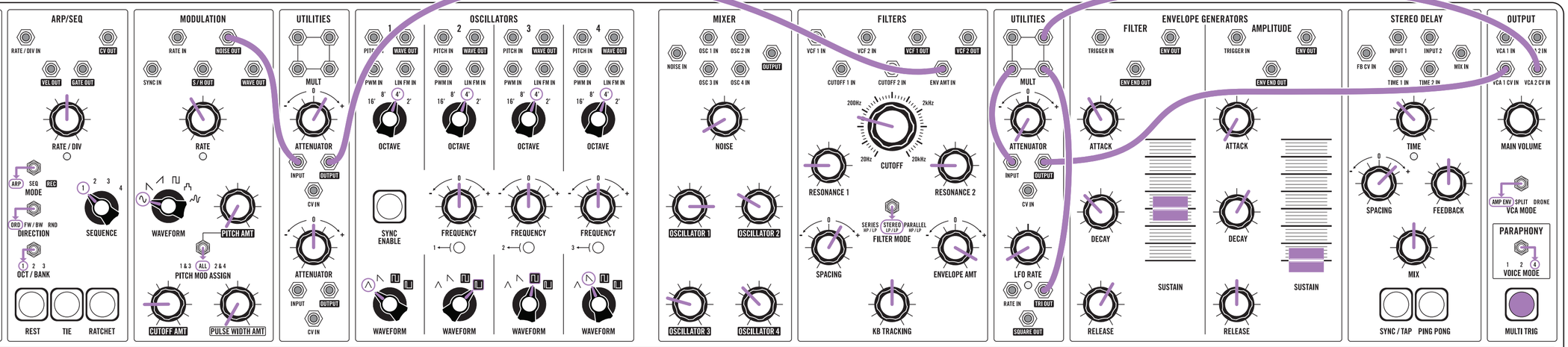
PATCH EXPLORATION

DREAM SWIRLS

NOTES:

- Hold one note. It will be warm and round. While holding that note, tap other single notes and listen to how the sound of each changes as Matriarch cycles through Oscillators 2, 3, and 4 while Oscillator 1 stays steady.
- The first new note you play after releasing all notes will consistently be played by Oscillator 1.
- Raise the **MOD** wheel to add motion.



MATRIARCH SEMI-MODULAR ANALOG SYNTHESIZER

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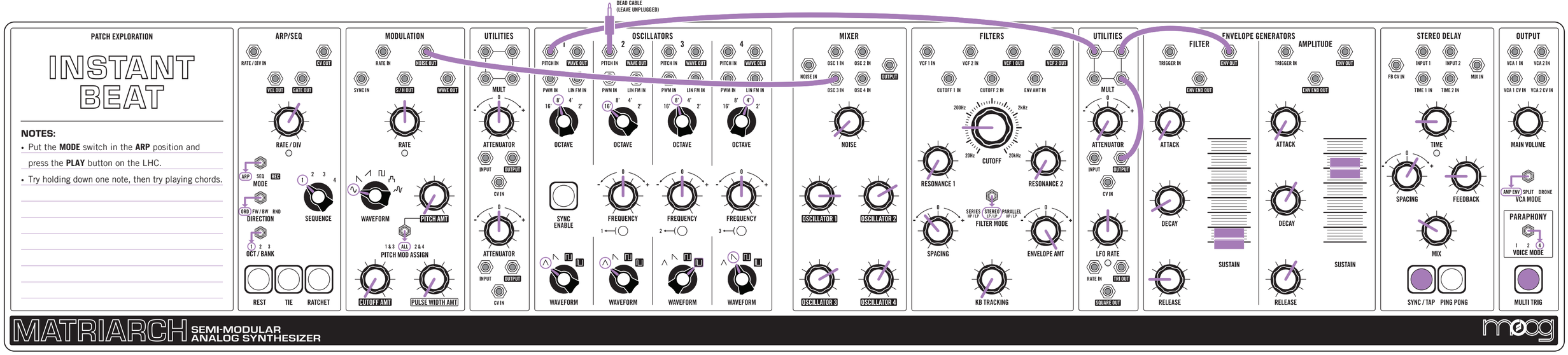
DEAD CABLE
(LEAVE UNPLUGGED)
PATCH EXPLORATION
INSTANT BEAT
NOTES:
• Put the MODE switch in the ARP position and press the PLAY button on the LHC.
• Try holding down one note, then try playing chords.
ARP/SEQ
RATE / DIV IN
CV OUT
VEL OUT
GATE OUT
RATE / DIV
ARP
SEQ
REC
MODE
ORD
FW / BW
RND
DIRECTION
SEQUENCE
OCT / BANK
REST
TIE
RATCHET
MODULATION
RATE IN
NOISE OUT
SYNC IN
S/H OUT
WAVE OUT
RATE
WAVEFORM
PITCH AMT
PITCH MOD ASSIGN
CUTOFF AMT
PULSE WIDTH AMT
UTILITIES
MULT
ATTENUATOR
INPUT
OUTPUT
CV IN
OSCILLATORS
PITCH IN
WAVE OUT
PWM IN
LIN FM IN
OCTAVE
SYNC ENABLE
FREQUENCY
WAVEFORM
MIXER
OSC 1 IN
OSC 2 IN
NOISE IN
OUTPUT
OSC 3 IN
OSC 4 IN
NOISE
OSCILLATOR 1
OSCILLATOR 2
OSCILLATOR 3
OSCILLATOR 4
FILTERS
VCF 1 IN
VCF 2 IN
VCF 1 OUT
VCF 2 OUT
CUTOFF 1 IN
CUTOFF 2 IN
ENV AMT IN
CUTOFF
RESONANCE 1
RESONANCE 2
SERIES
STEREO
PARALLEL
FILTER MODE
SPACING
ENVELOPE AMT
KB TRACKING
UTILITIES
MULT
ATTENUATOR
INPUT
OUTPUT
CV IN
LFO RATE
RATE IN
TRI OUT
SQUARE OUT
ENVELOPE GENERATORS
FILTER
TRIGGER IN
ENV OUT
ENV END OUT
ATTACK
DECAY
SUSTAIN
RELEASE
AMPLITUDE
STEREO DELAY
INPUT 1
INPUT 2
MIX IN
FB CV IN
TIME 1 IN
TIME 2 IN
TIME
SPACING
FEEDBACK
MIX
SYNC / TAP
PING PONG
OUTPUT
VCA 1 IN
VCA 2 IN
VCA 1 CV IN
VCA 2 CV IN
MAIN VOLUME
AMP ENV
SPLIT
DRONE
VCA MODE
PARAPHONY
VOICE MODE
MULTI TRIG
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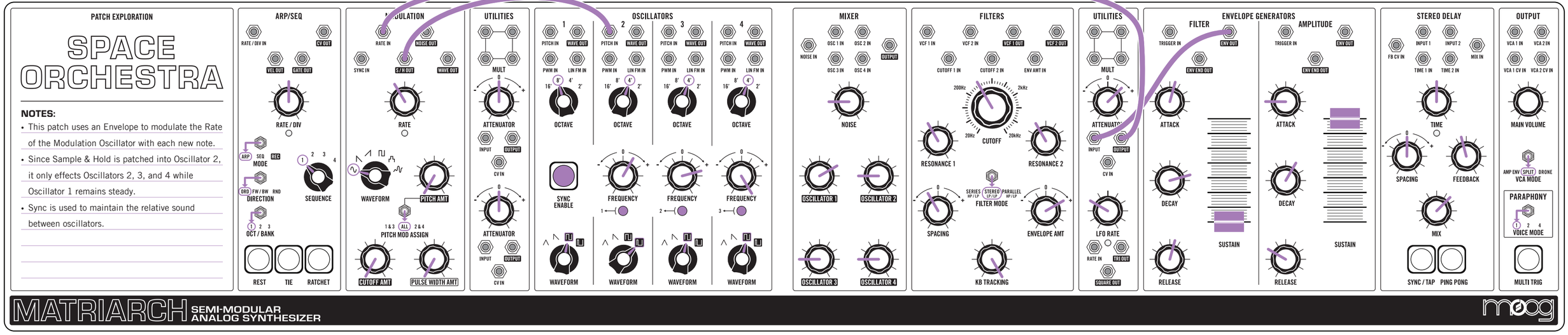
PATCH EXPLORATION

SPACE ORCHESTRA

NOTES:

- This patch uses an Envelope to modulate the Rate of the Modulation Oscillator with each new note.
- Since Sample & Hold is patched into Oscillator 2, it only effects Oscillators 2, 3, and 4 while Oscillator 1 remains steady.
- Sync is used to maintain the relative sound between oscillators.

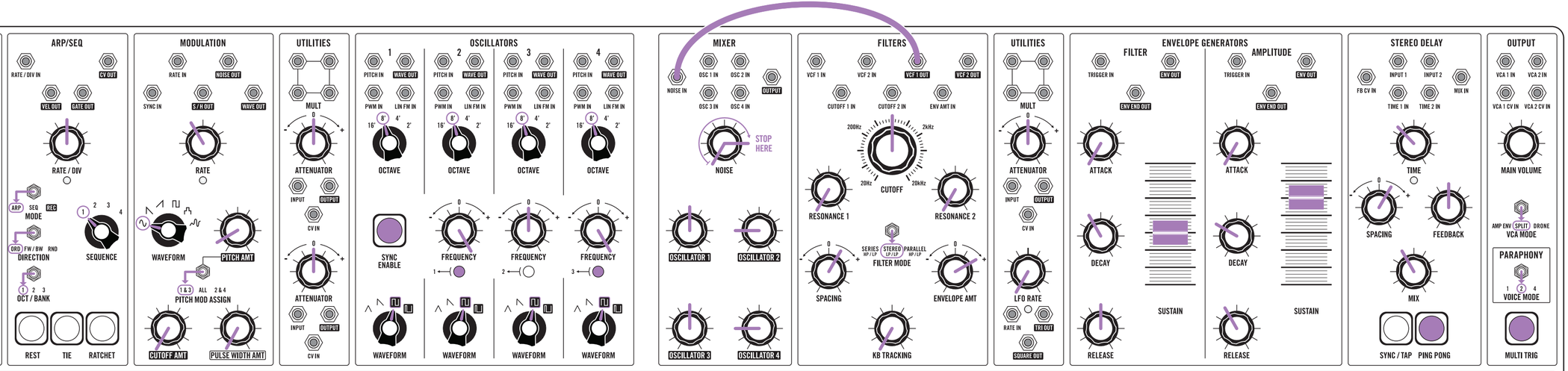


PATCH EXPLORATION

DIRTY DUO

NOTES:

- Raise the **MOD** wheel.
- Turn up the **NOISE** knob to drive the mixer.



MATRIARCH SEMI-MODULAR ANALOG SYNTHESIZER

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PATCH EXPLORATION

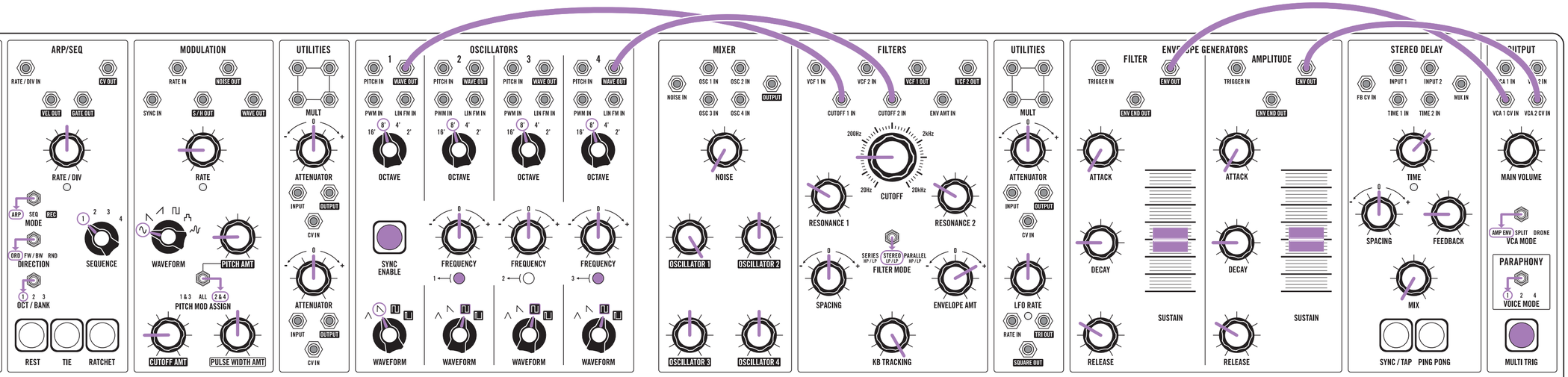
WIDE FM BASS

NOTES:

- Raise the **MOD** wheel to add motion.
- Patching the Envelopes into the **VCA CV** inputs drives them harder and makes the sound punchier.

TRY THIS:

- Lower the Octave for a deeper bass sound.



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PATCH EXPLORATION

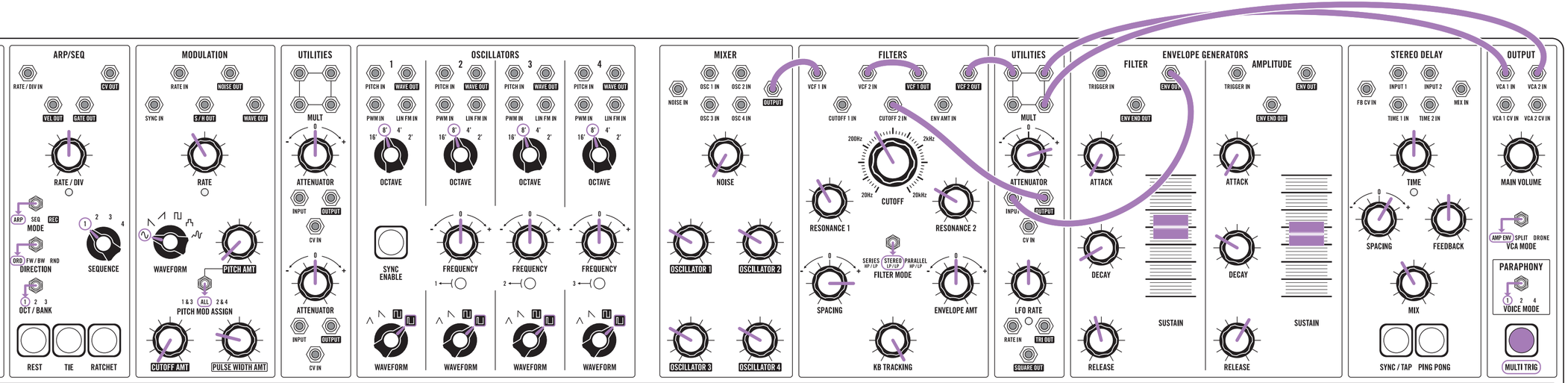
DIGITAL GUITAR

NOTES:

- This patch allows one resonant low pass filter to be fed through another to create a more defined, mid-focused sound similar to a guitar.
- Keyboard Tracking is used on the Filters to make low notes darker, and high notes brighter.

TRY THIS:

- Slightly detune one of the Oscillators for a chorus effect.
- Raise the **MOD** wheel for vibrato.



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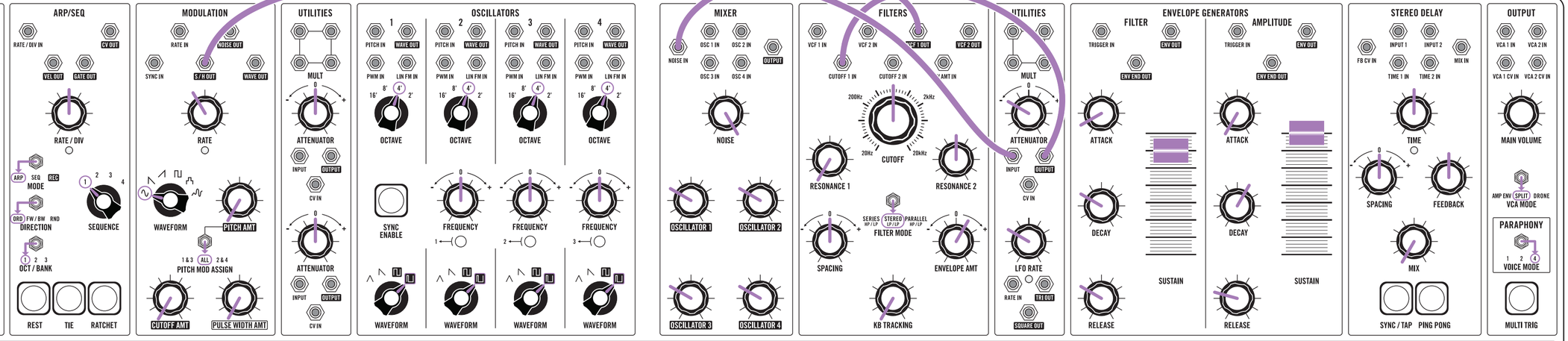
PATCH EXPLORATION

FREE SAMPLE

NOTES:

- This patch uses Sample & Hold to create random motion, and Filter feedback into the mixer to create a thin, mid-range sound.



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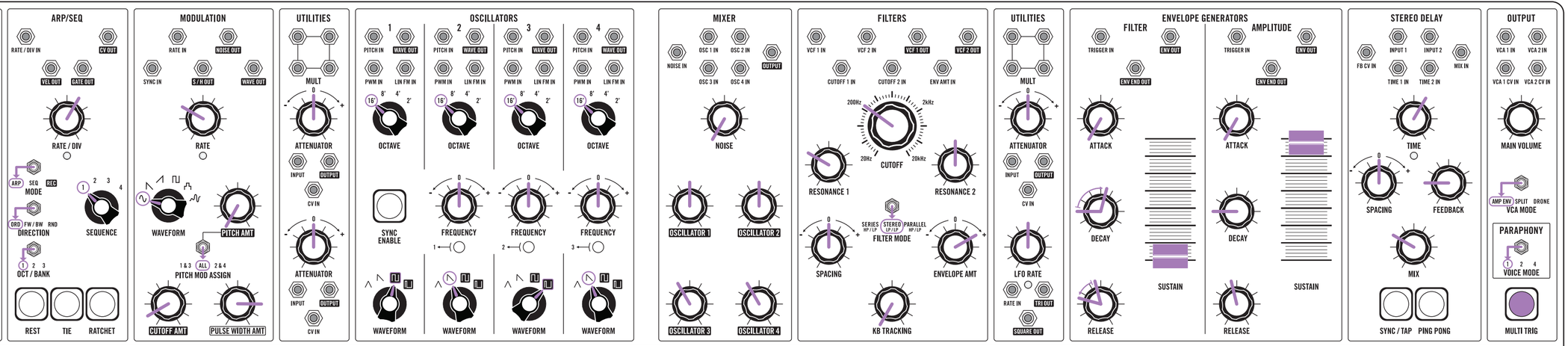
PATCH EXPLORATION

RUBBER BASS

NOTES:

- Raise the **MOD** wheel.
- Add **GLIDE** for more motion.

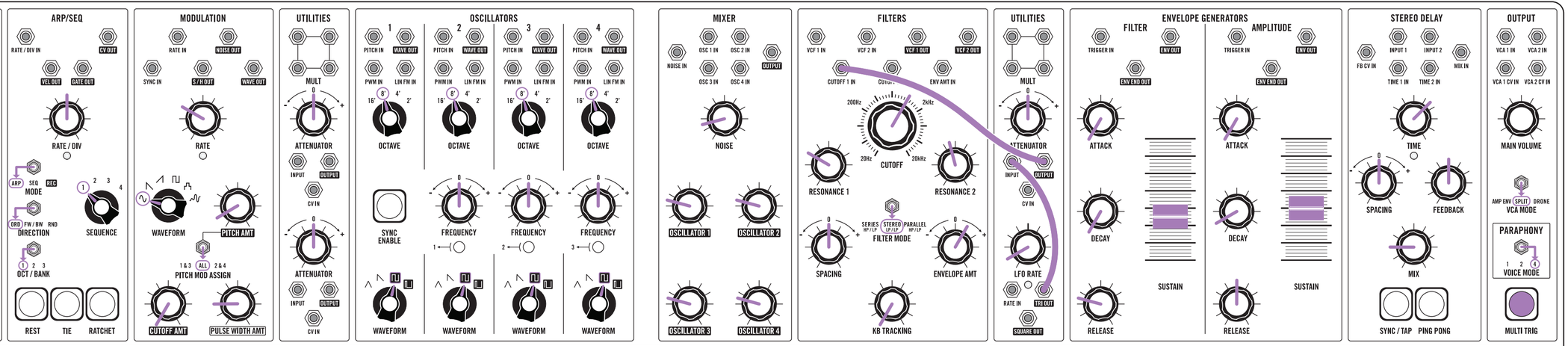


PATCH EXPLORATION

BENDY ORGAN

NOTES:

- Push the **MOD** wheel up all the way.
- Use the **ENVELOPE AMT** knob to adjust click level.
- Patch out of the **VCF 1** jack into the **NOISE IN** jack and turn the **NOISE** level knob all the way up for overdrive.



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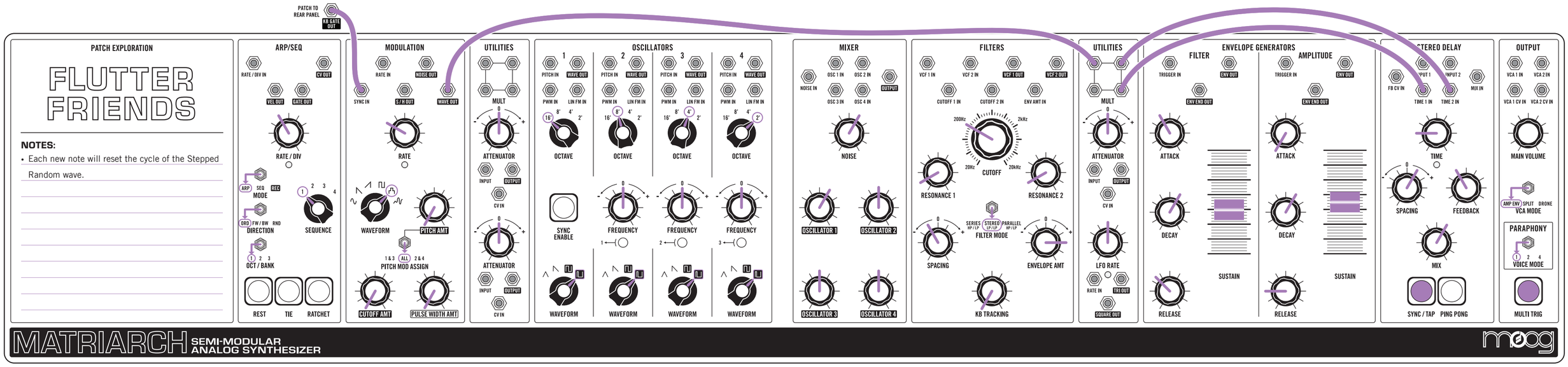
PATCH TO REAR PANEL
KB GATE OUT
PATCH EXPLORATION
FLUTTER FRIENDS
NOTES:
• Each new note will reset the cycle of the Stepped Random wave.
ARP/SEQ
RATE / DIV IN
CV OUT
VEL OUT
GATE OUT
RATE / DIV
ARP
SEQ
REC
MODE
ORD
FW / BW
RND
DIRECTION
SEQUENCE
OCT / BANK
REST
TIE
RATCHET
MODULATION
RATE IN
NOISE OUT
SYNC IN
S / H OUT
WAVE OUT
RATE
WAVEFORM
PITCH AMT
1 & 3
ALL
2 & 4
PITCH MOD ASSIGN
CUTOFF AMT
PULSE WIDTH AMT
UTILITIES
MULT
ATTENUATOR
INPUT
OUTPUT
CV IN
OSCILLATORS
PITCH IN
WAVE OUT
PWM IN
LIN FM IN
OCTAVE
SYNC ENABLE
FREQUENCY
WAVEFORM
MIXER
OSC 1 IN
OSC 2 IN
OUTPUT
NOISE IN
OSC 3 IN
OSC 4 IN
NOISE
OSCILLATOR 1
OSCILLATOR 2
OSCILLATOR 3
OSCILLATOR 4
FILTERS
VCF 1 IN
VCF 2 IN
VCF 1 OUT
VCF 2 OUT
CUTOFF 1 IN
CUTOFF 2 IN
ENV AMT IN
200Hz
2kHz
20Hz
20kHz
CUTOFF
RESONANCE 1
RESONANCE 2
SERIES
STEREO
PARALLEL
HP / LP
FILTER MODE
SPACING
ENVELOPE AMT
KB TRACKING
UTILITIES
MULT
ATTENUATOR
INPUT
OUTPUT
CV IN
LFO RATE
RATE IN
TRI OUT
SQUARE OUT
ENVELOPE GENERATORS
FILTER
TRIGGER IN
ENV OUT
ENV END OUT
ATTACK
DECAY
SUSTAIN
RELEASE
AMPLITUDE
STEREO DELAY
FB CV IN
INPUT 1
INPUT 2
MIX IN
TIME 1 IN
TIME 2 IN
VCA 1 CV IN
VCA 2 CV IN
TIME
SPACING
FEEDBACK
MIX
SYNC / TAP
PING PONG
OUTPUT
VCA 1 IN
VCA 2 IN
MAIN VOLUME
AMP ENV
SPLIT
DRONE
VCA MODE
PARAPHONY
VOICE MODE
MULTI TRIG
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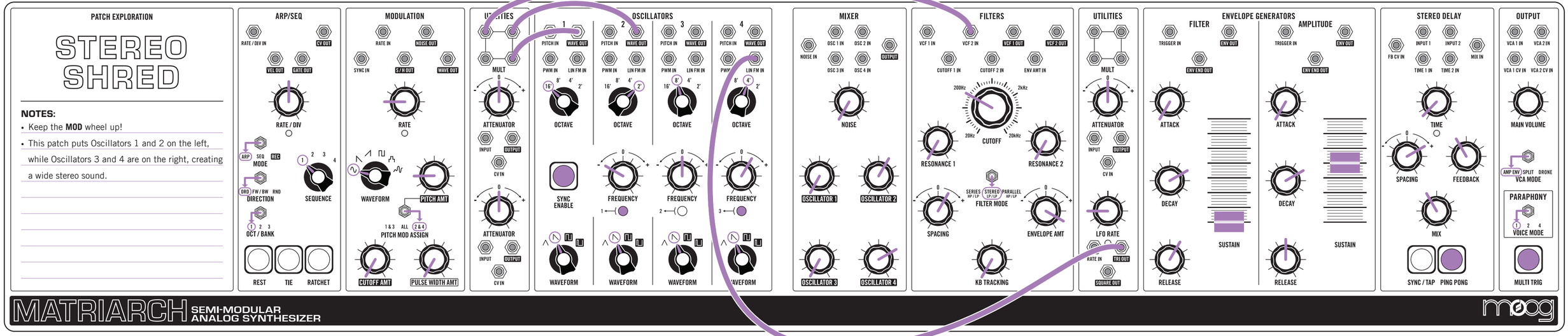
PATCH EXPLORATION

STEREO SHRED

NOTES:

- Keep the **MOD** wheel up!
- This patch puts Oscillators 1 and 2 on the left, while Oscillators 3 and 4 are on the right, creating a wide stereo sound.



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