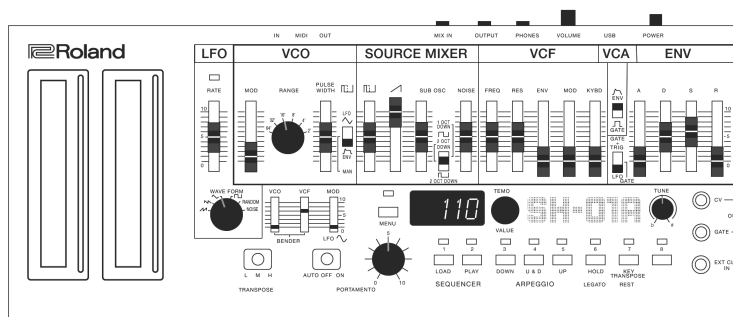


MONOPHONIC / POLYPHONIC / CHORD MACHINE SYNTHESIZER



PATCHの例 PATCH EXAMPLES



**RIBBON
CONTROLLER**
ENTER NOTES
PITCHBEND,
MODULATION
CONTROLLERS

LFO
RATE SELECTION
WAVEFORM SHAPE
OF THE LOW
FREQUENCY
OSCILLATOR

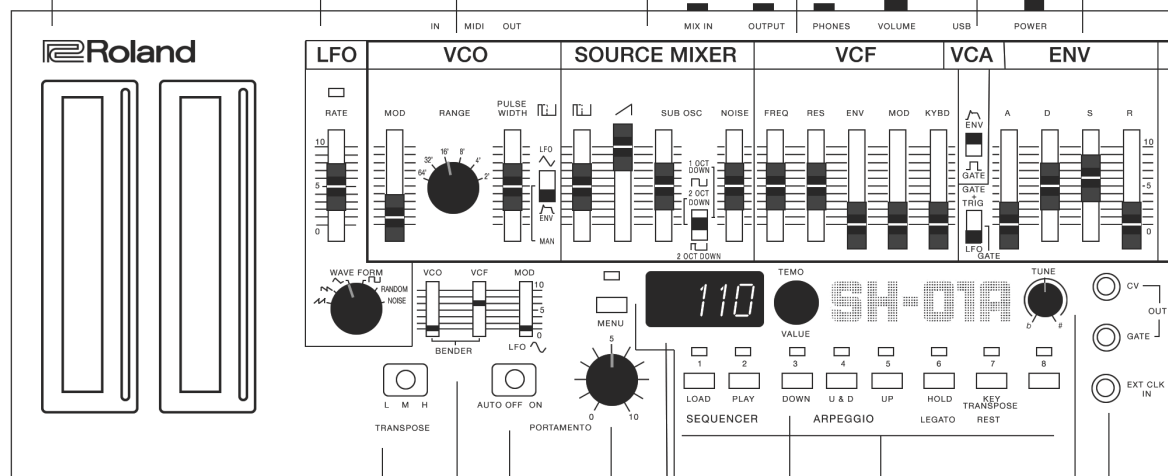
SOURCE MIXER
MIXES PULSE, SAW
SUB AND NOISE
WITH A SUB OCTAVE
SELECTION

VCA
SELECT ENV/
GATE AND
TRIGGER/LFO
AMP SETTINGS

VCO
MODULATION
AMOUNT, RANGE
SELECTOR, AND
PULSE WIDTH
SETTINGS

VCF
FREQUENCY, RESONANCE
ENVELOPE, MODULATION,
AND KEYBOARD AMOUNTS
FOR THE VOLTAGE
CONTROLLED FILTER

ENV
ENVELOPE SHAPE
ADJUSTMENTS FOR
ATTACK, DECAY,
SUSTAIN AND RELEASE



TRANSPOSE
SWITCH PITCH
BETWEEN LOW,
MID AND HI

**PORTAMENTO
AMOUNT**

**PORTAMENTO
SELECTOR**

MOD SELECTOR
ADJUST THE AMOUNT
PITCHBEND/MODULATION
CONTROLS HAVE

DISPLAY

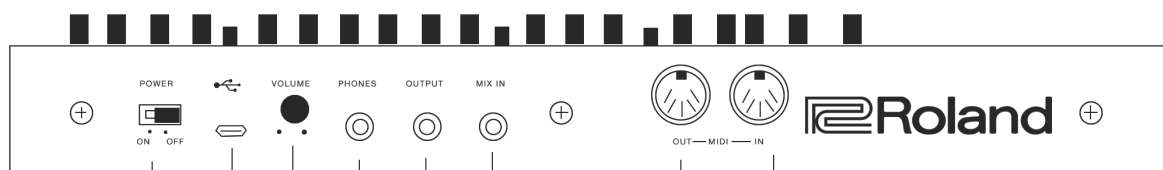
TEMPO
MAIN TEMPO
AND ENCODER
ADJUSTMENT

MENU
ADJUST VARIOUS
VOICE AND
SYSTEM SETTINGS

**SEQUENCER/
ARPEGGIATOR**
STEP SEQUENCER
AND ARPEGGIO
CONTROLS

**CV/GATE
CLOCK OUT**
OUTPUT FOR KEYBOARD
SEQUENCER AND
ARPEGGIO TO
CV/GATE
EXTERNAL CLOCK INPUT

TUNE
MASTER TUNE
ADJUSTMENT



POWER
MAIN POWER
SWITCH

MICRO USB PORT
POWER SUPPLY
CONNECTOR AND
INTERFACE WITH THE
COMPUTER FOR
AUDIO/MIDI
CONNECTION WITH
A DAW

HEADPHONE OUT
CONNECT HEADPHONES

VOLUME
MAIN VOLUME ADJUSTMENT

OUTPUT
MAIN OUTPUT FOR
CONNECTION WITH
A MIXER OR SPEAKERS

MIX IN
INPUT FOR MIXING
EXTERNAL SOURCES
THROUGH THE
SH-01A

MIDI OUT - IN
FOR RECEIVING AND
TRANSMITTING
CONTROL/NOTE
DATA WITH SEQUENCERS
AND KEYBOARD
CONTROLLERS

SH-01A PATCH EXAMPLES

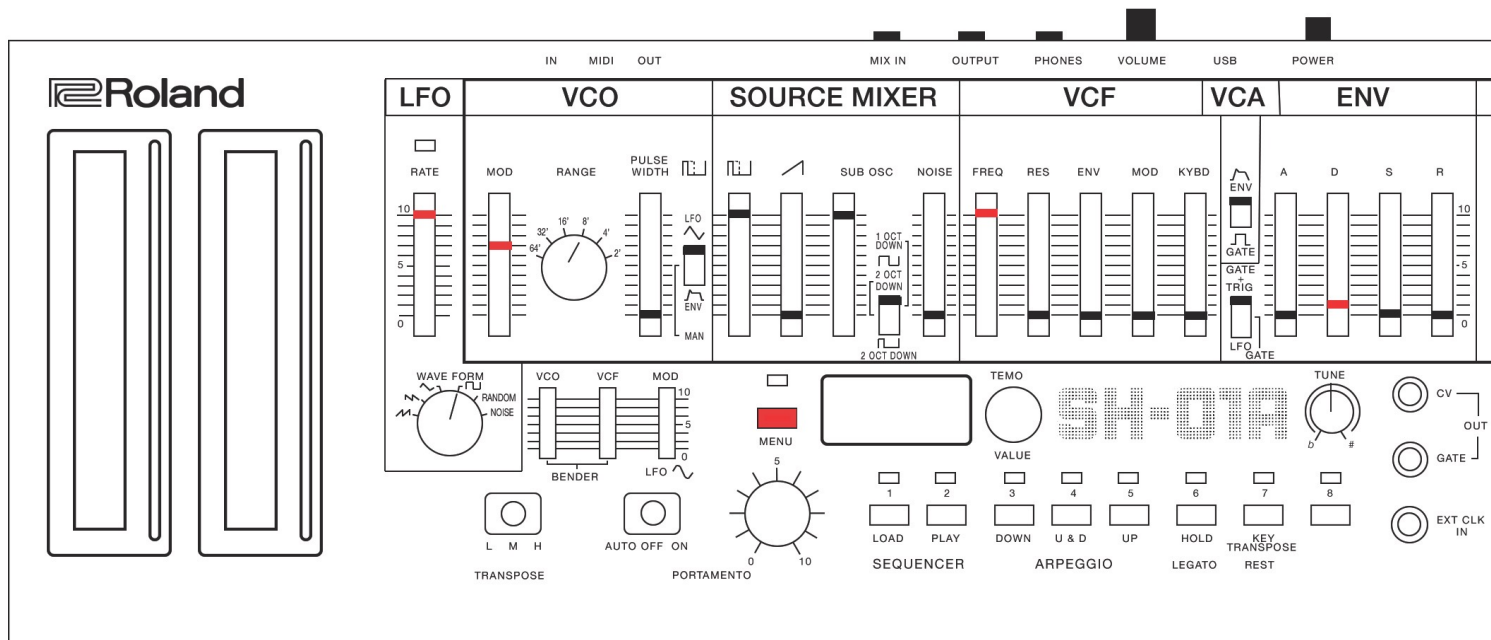
1. FREQUENCY MODULATION (FM)
2. SINE WAVE MODULATION (SWFM)
3. FILTER FREQUENCY MODULATION
4. PULSE WIDTH AUDIO RATE MODULATION
5. AMPLITUDE MODULATION / RING MODULATION
6. KICK DRUM
7. UNISON POLYSYNTH
8. MONOPHONIC BASS

These examples are intended as a companion document for the user's guide to the Roland sh-01A synthesizer. If you happened into this without the manual itself, please navigate your browser to <http://sunshine-jones.com> and select the non-fiction section of the site for a love letter video to the SH-01A as well as a re-written and illustrated manual for the synthesizer.

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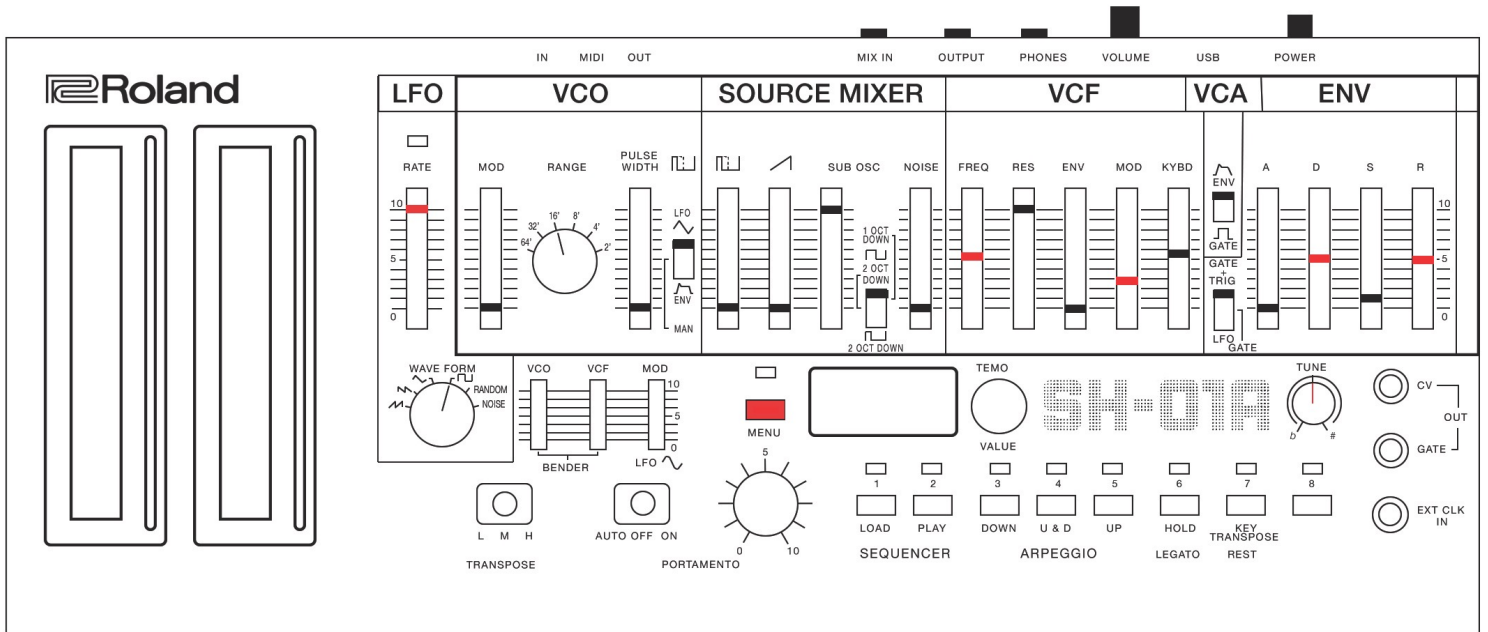
LOVE

Sunshine Jones
November 2017
San Francisco, California



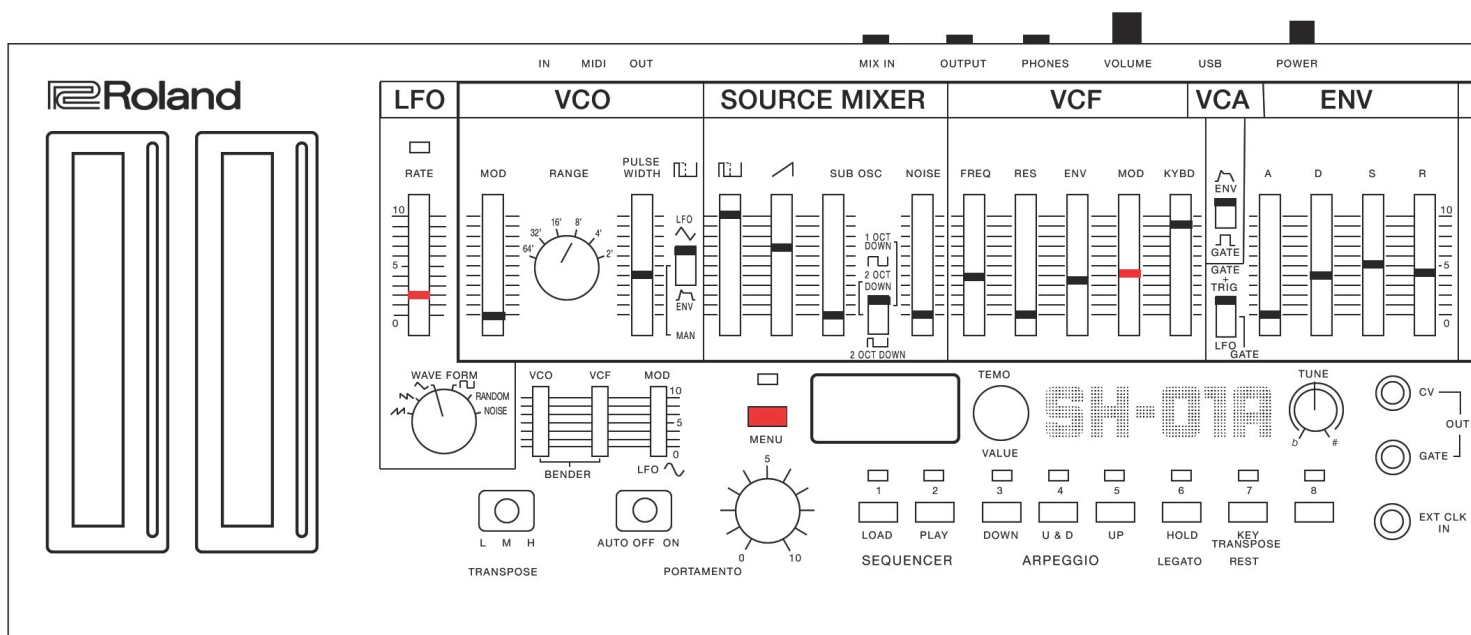
FREQUENCY MODULATION

MENU	PUT THE LFO INTO ADVANCED LFO MODE: MENU - SYSTEM - LFO - ADV
LFO RATE	ADJUST THE LFO RATE TO MAXIMUM FOR AUDIO RATE MODULATION. DECREASE SLIGHTLY DIFFERENT EFFECTS.
VCO MOD	ADJUST TO OPEN A WORLD OF TONAL MODULATION - A LITTLE GOES A LONG WAY HERE
FREQ	ADJUST FILTER TO CUT HIGH FREQUENCIES OR BRING MORE INTO THE SOUND
KYBD	ADJUST TO CONTROL THE AMOUNT OF KEYBOARD/SCALE TUNING
ENV D	ADJUST DECAY AND RELEASE SLIDERS TO SHAPE THE OVERALL SOUND ENVELOPE



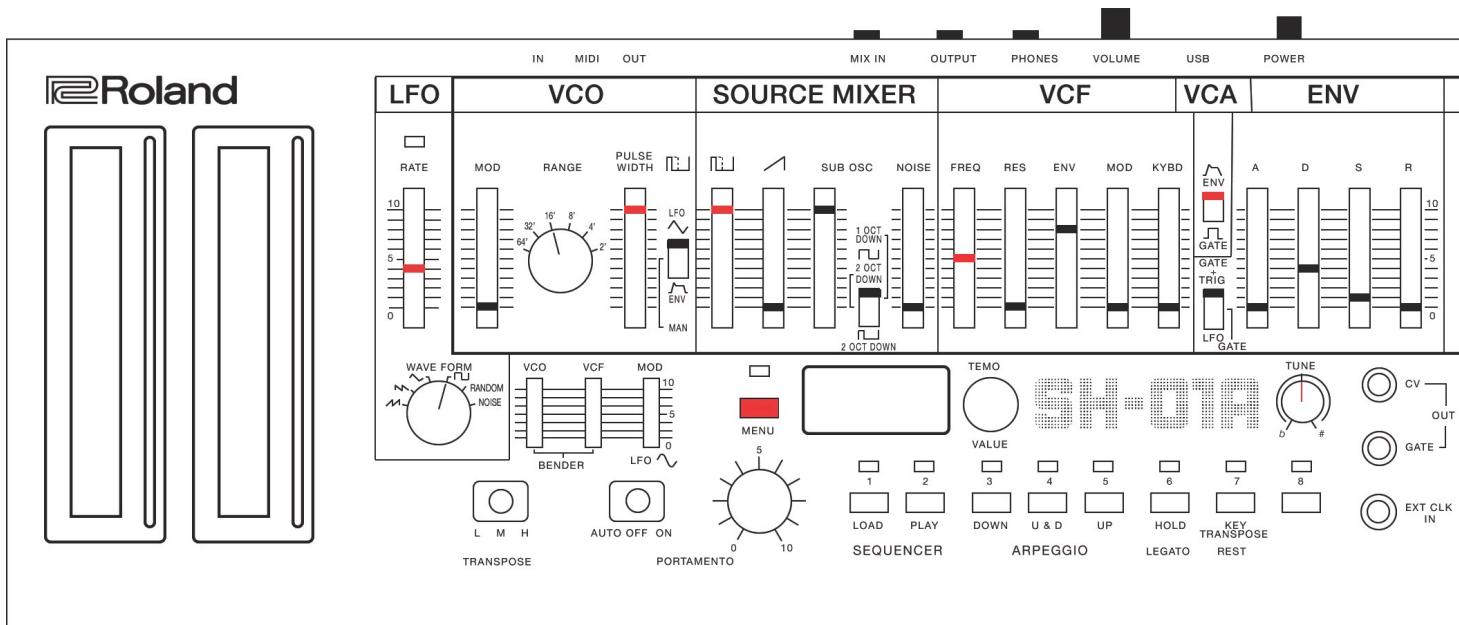
SINE WAVE FM

MENU	PUT THE LFO INTO ADVANCED LFO MODE: MENU - SYSTEM - LFO - ADV ASSIGN VOICE TO POLY MODE
LFO	ADJUST THE LFO RATE TO MAXIMUM FOR AUDIO RATE MODULATION. DECREASE SLIGHTLY FOR TRILL EFFECTS.
FREQ	ADJUST FILTER TO CUT HIGH FREQUENCIES OR BRING MORE INTO THE SOUND
MOD	ADJUST TO TAME OR UNEASH THE FREQUENCY MODULATION EFFECTS
ENV D & R	ADJUST DECAY AND RELEASE SLIDERS TO SHAPE THE OVERALL SOUND ENVELOPE



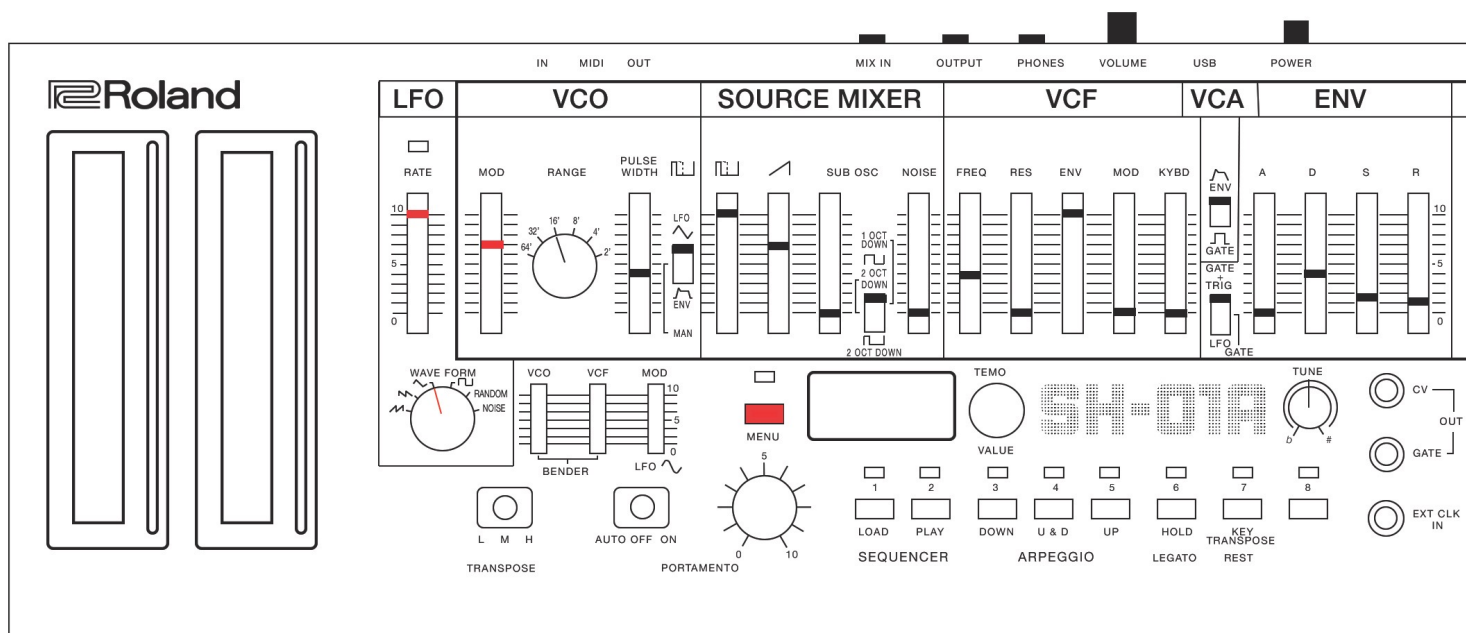
FILTER FREQUENCY MODULATION

MENU	PUT THE LFO INTO ADVANCED LFO MODE: MENU - SYSTEM - LFO - ADV
LFO RATE	ADJUST THE LFO RATE TO CONTROL THE SPEED OF THE MODULATION. COMPARE VERY SLOW MODULATION TO VERY FAST MODULATION - PRETTY COOL, RIGHT?
VCF MOD	ADJUST THE AMOUNT OF MODULATION APPLIED TO THE FILTER. A SMALL AMOUNT ALLOWS THE SOUND TO BE ANIMATED. A LOT CREATES A COMING AND GOING EFFECT



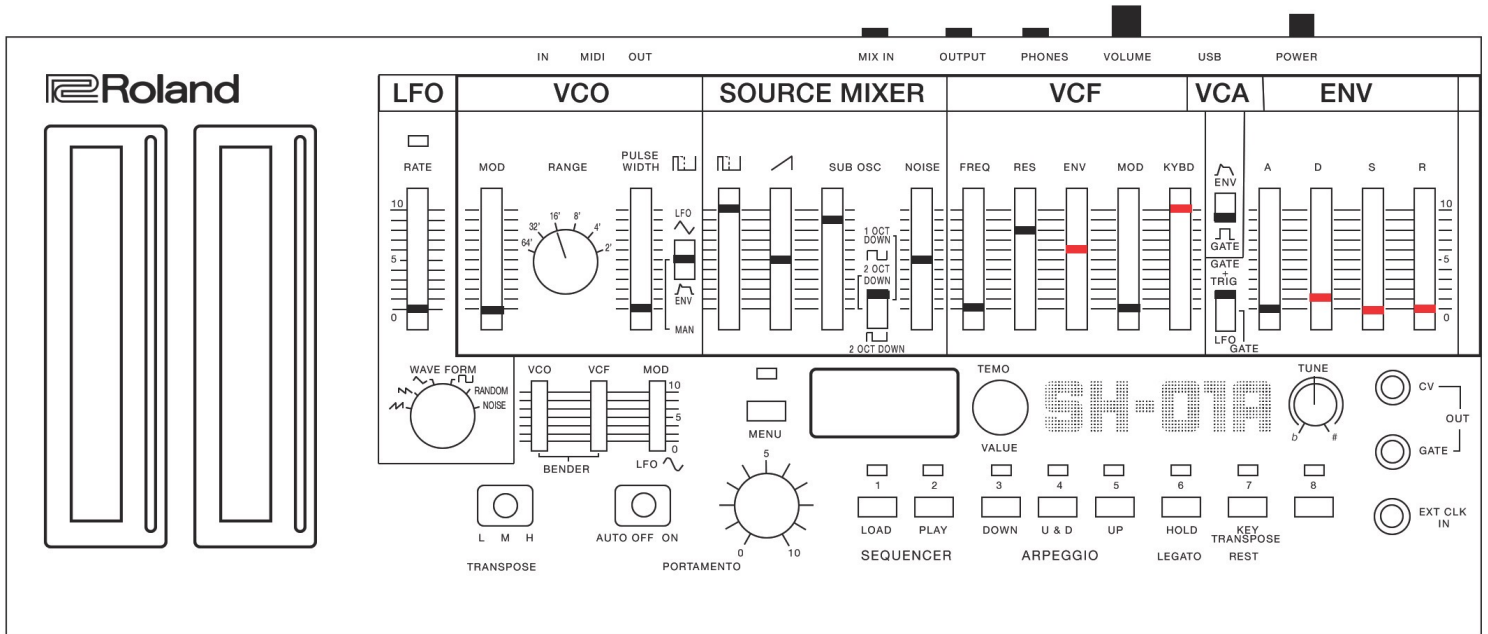
PULSE WIDTH AUDIO RATE MODULATION

MENU	PUT THE LFO INTO ADVANCED LFO MODE: MENU - SYSTEM - LFO - ADV
LFO	ADJUST THE LFO RATE TO INCREASE OR DECREASE HARMONIC CONTENT SPEED
PULSE WIDTH	ADJUST TO ACCESS THE AMOUNT OF HARMONIC CONTENT IS HEARD
PULSE	ADJUST THE PULSE WAVE MIXER ATTENUATOR TO MIX THE AMOUNT OF MODULATED SOUND IN THE OVERALL PATCH
FREQ	ADJUST FILTER TO TASTE OR MODULATE IT FOR MORE HARMONICS
ENV	ADJUST THE TYPE OF ADSR OR GATE TO CONTROL SOUND SHAPES
TUNE	WHEN MODULATING FREQUENCY TUNE BECOMES IMPORTANT FOR ADJUSTING THE TUNE OF THE PATCH TO PLAY WELL WITH OTHER INSTRUMENTS. ADJUST AS NEEDED TO RELATE WELL WITH OTHERS.



AMPLITUDE MODULATION/RING MODULATION

MENU	PUT THE LFO INTO ADVANCED LFO MODE: MENU - SYSTEM - LFO - ADV
LFO RATE	ADJUST THE LFO RATE TO CONTROL THE SPEED OF THE MODULATION. VERY SLIGHT ADJUSTMENTS MAKE BIG CHANGES IN THIS SECTION. COMPARE ALL THE WAY UP, TO JUST SLIGHTLY DOWN.
VCO MOD	ADJUST THE AMOUNT OF MODULATION APPLIED TO THE VOICE. COMPARE ALL THE WAY DOWN TO ALL THE WAY UP NOW COMPARE THOSE TO THE SOUND OF THE FADER SET TO THE MID POINT. WILD MAN. LOTS TO EXPLORE HERE.
WAVEFORM	ADJUST WAVEFORMS TO CREATE DIFFERENT SHAPES. THIS MAY NOT BE IMMEDIATELY IMPRESSIVE, BUT AS YOU EXPLORE, BE SURE AND TRY OUT A FEW DIFFERENT SHAPES TO HEAR THE HARMONIC CONTENT EACH SHAPE HAS TO OFFER.

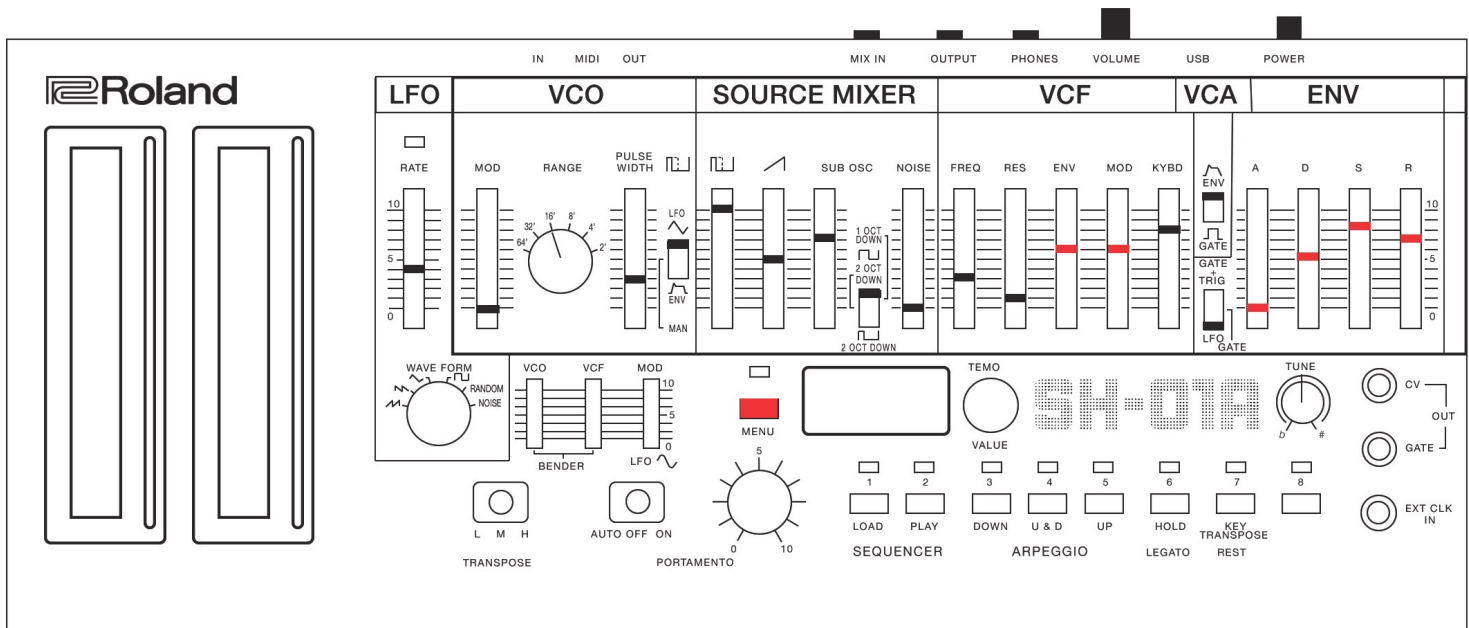


KICK DRUM

VCF ENV ADJUST TO SHAPE THE SHAPE OF THE SOUND. HIGHER VALUES OPEN THE SOUND UP, LOWER VALUES CLOSE THE SOUND.

VCF KYBD ADJUST THE SOUND'S TUNE WITH THE KEYBOARD ATTENUATOR.
NOTE - THE KEY PLAYED ON THE KEYBOARD OR PROGRAMMED INTO A SEQUENCER WILL ALSO PREDICT THE SOUND AND THUS CHANGE HOW THIS SLIDER SHAPES THE PITCH

ENV - D, S & R ADJUSTS THE FINAL SHAPE OF THE SOUND. HIGHER SETTINGS MEAN LONGER, LARGER SOUNDS. SMALLER SETTINGS PRODUCE TIGHTER, MORE RHYTHMICALLY ACCURATE SOUNDS



UNISON POLYSYNTH

MENU

PUT THE SH-01A INTO UNISON MODE: MENU - ASSIGN - UNI

VCF ENV

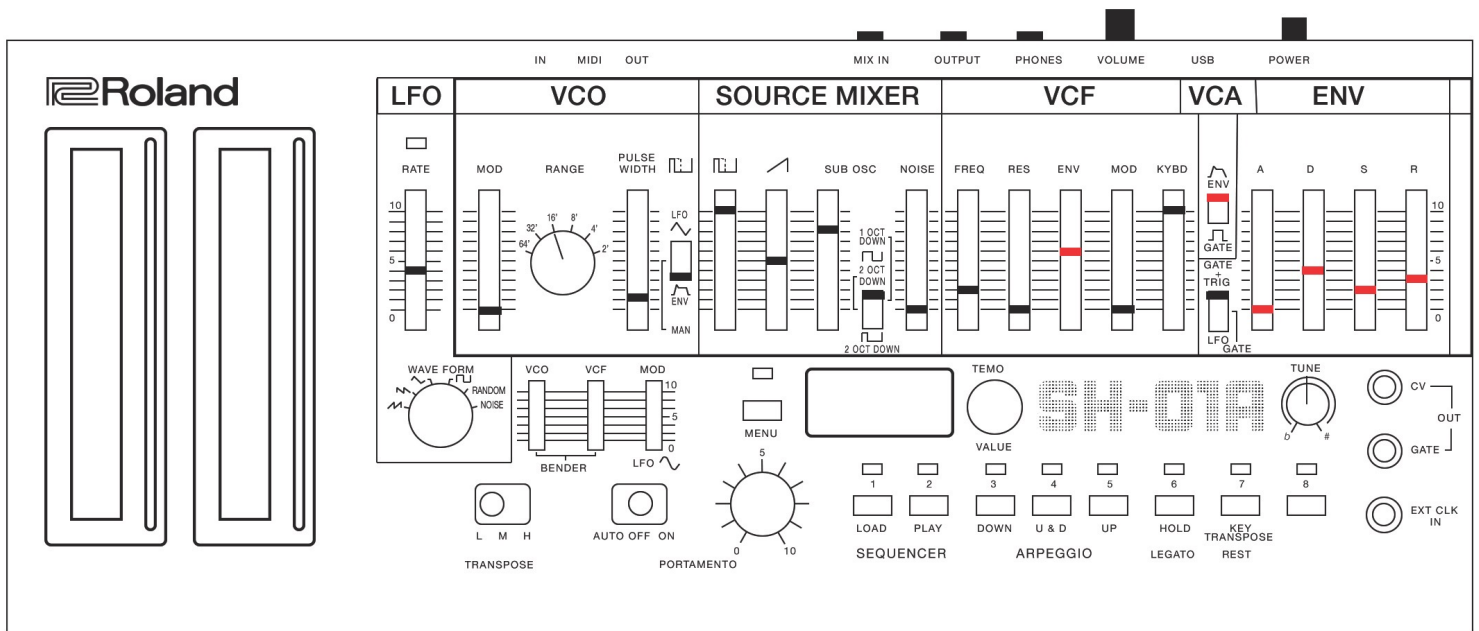
ADJUST THE AMOUNT OF EFFECT THE ENVELOPE HAS ON THE FILTER FREQUENCY.

VCF MOD

ADJUST THE DEPTH OF MODULATION ON THE FILTER FREQUENCY

ENV - A, D, S & R

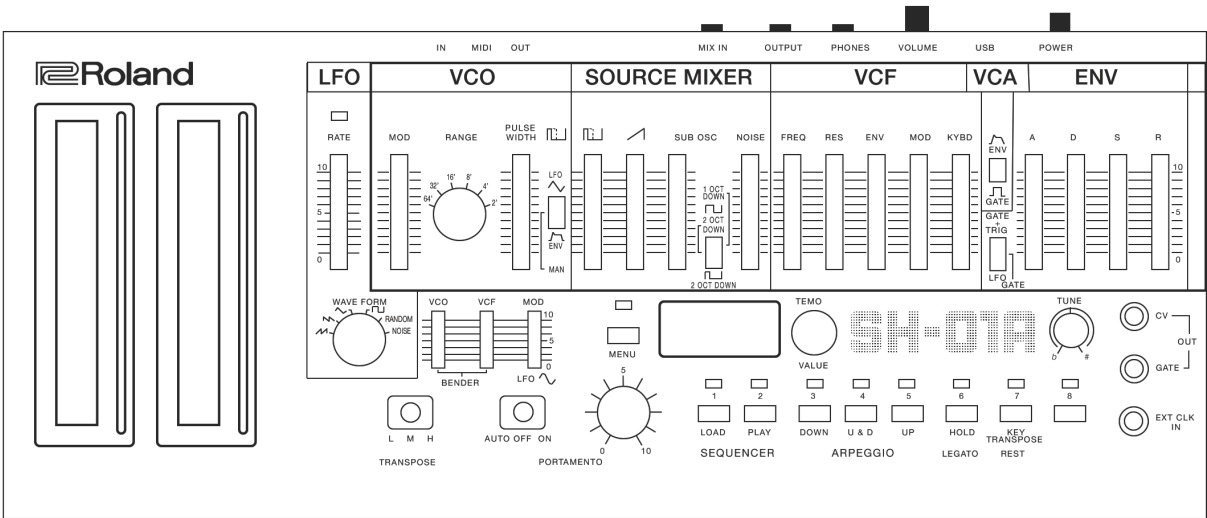
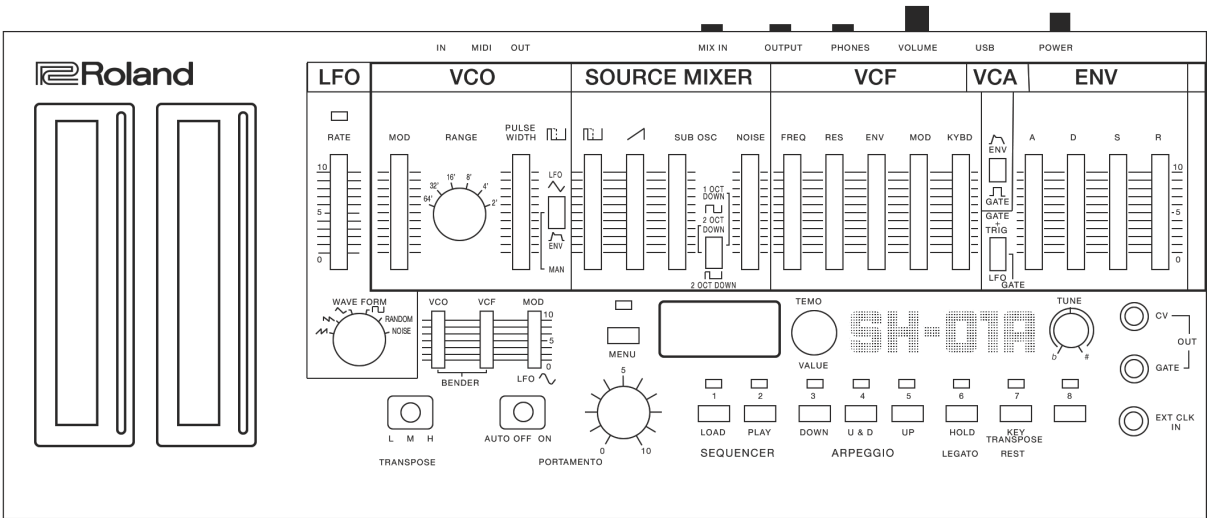
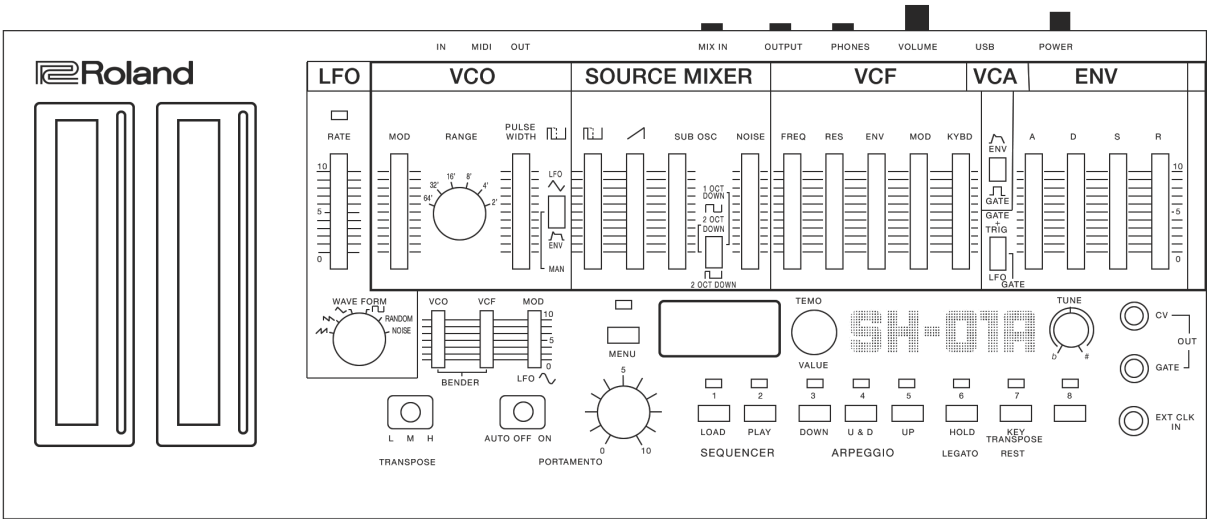
ADJUSTS THE FINAL SHAPE OF THE SOUND.



MONOPHONIC BASS

VCF ENV	ADJUST THE AMOUNT OF CONTROL THE ENVELOPE HAS OVER THE FILTER FREQUENCY.
VCA SHAPE	SWITCH BETWEEN ENVELOPE SHAPE AND GATE SHAPE FOR DIFFERENT ATTACK EFFECTS
ENV - A, D, S & R	SHAPE THE OVERALL CHARACTER OF THE SOUND

SOUND SYNTHESIS MEMO



The diagram illustrates the SH-07A synthesizer's controls and layout. On the left, the VCO, VCF, and MOD sections are shown with their respective frequency sliders (0-10) and a BENDER control. Below these are the TRANSPOSE (L, M, H) and AUTO OFF/ON controls. The PORTAMENTO section features a rotary knob (0-10) and a MENU button. The SEQUENCER section includes buttons for 1 (LOAD), 2 (PLAY), 3 (DOWN), 4 (U & D), 5 (UP), 6 (HOLD), 7 (KEY TRANSPOSE), and 8 (REST). The ARPEGGIO section has a TEMO button and a VALUE display. The LEGATO section has a button. The REST section has a button. The TUNE section features a rotary knob (b, #) and a TUNE display. On the right, the CV, GATE, and EXT CLK IN outputs are shown.

[illegible]

