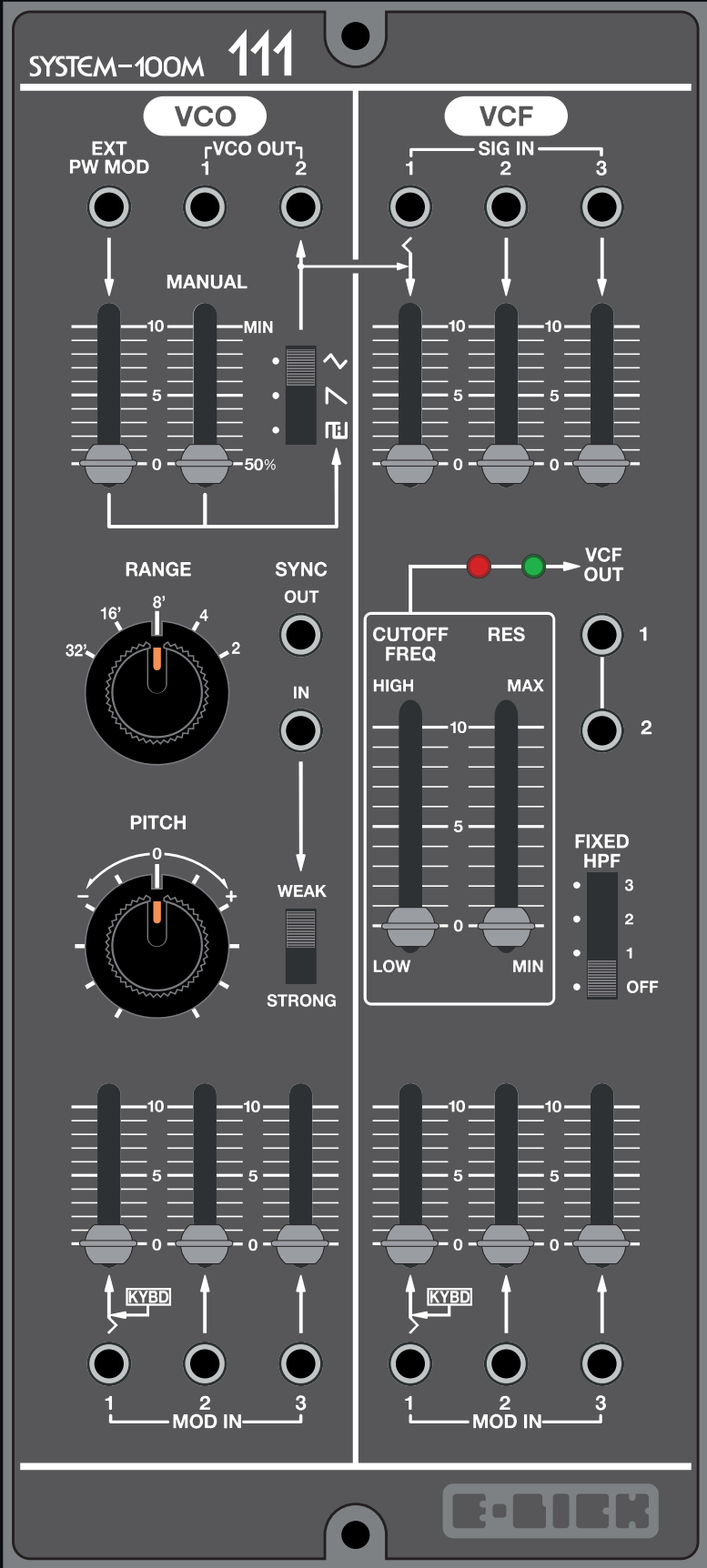


M-111



INTRODUCTION

M-111 is a voltage controlled oscillator combined with a voltage controlled filter

VCO OUT 1, 2 (VCO Output Jack)

Control input of the pulse width with an external control voltage

This slider determines the pulse width.

Control the level of the input voltage coming from the PWM input jack

Select the VCO output waveform

Sync Output

Range selector of the VCO

Sync Input

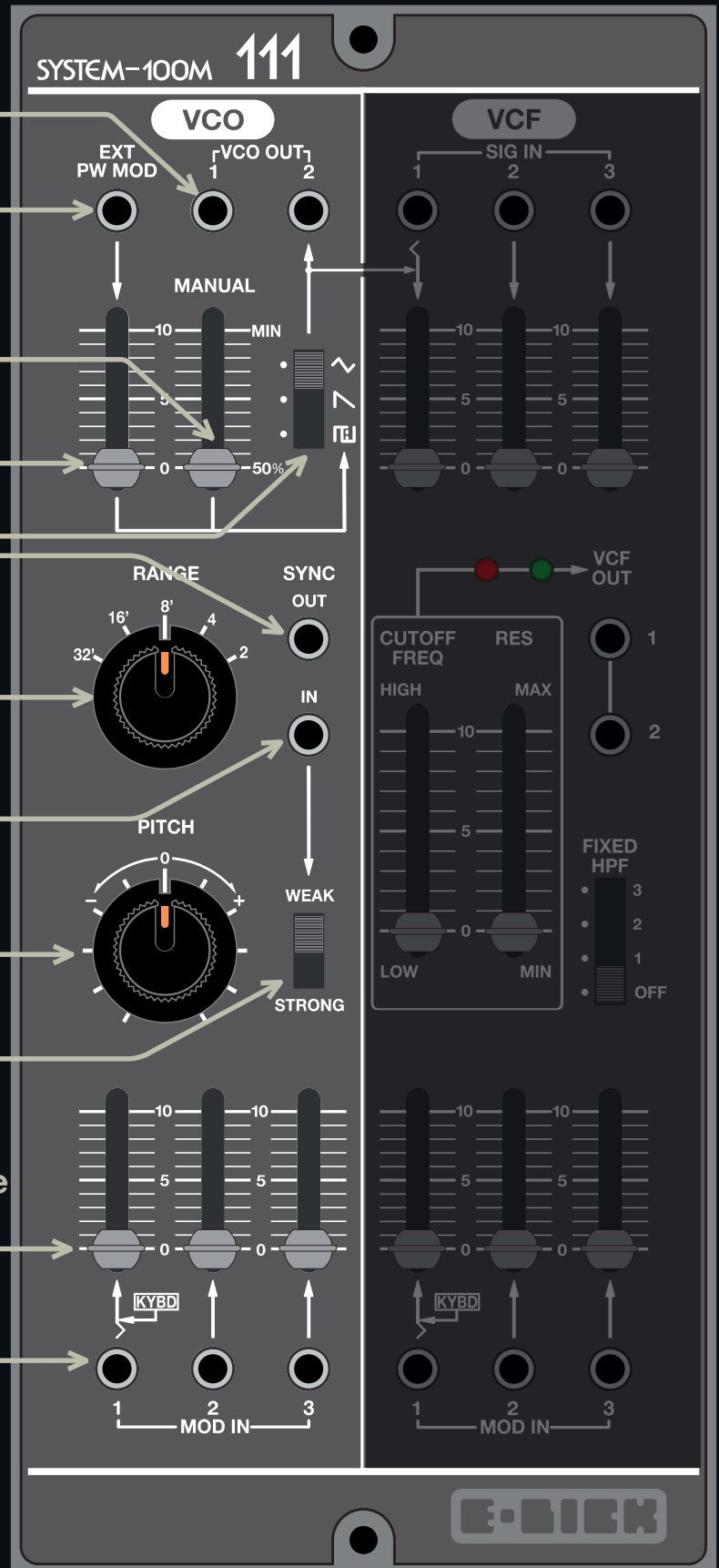
This knob controls the pitch

This switch is for selecting the degree of the synchronisation effect

Controls the level of the input voltage from the MOD IN Jacks

Input jack for the control voltage of the VCO frequency.

*The 1th jack is internally connected with the KYBD CV input.



VCF Section

SIG IN 1, 2, 3 (Audio signal input)
This is the input for audio signal

This slider controls the level of the input signal from the input jack

Indicator: A normal load is indicated with a green lamp and an overload is with a red lamp

VCF output jack

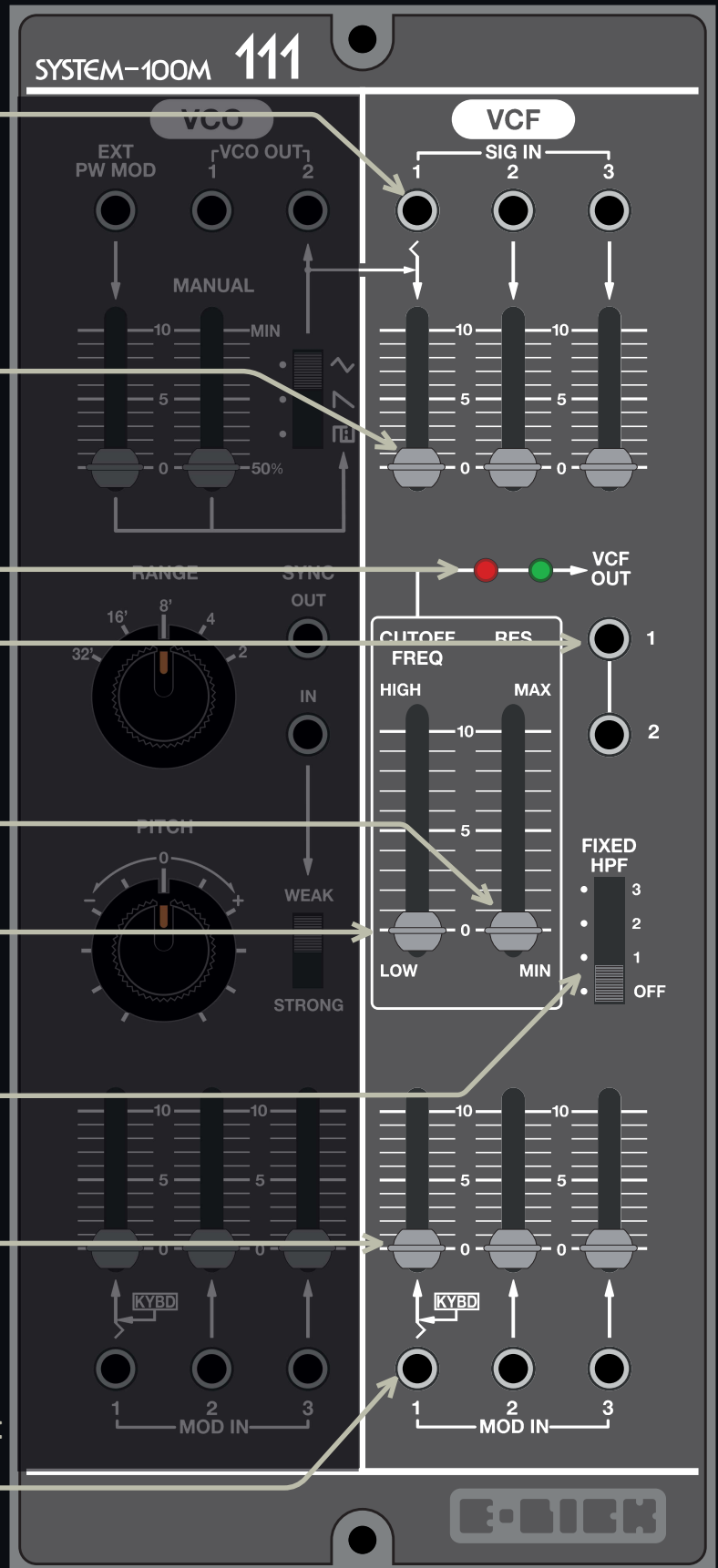
Control of the degree of resonance that accents the frequencies at the cutoff point of the filter

Control the cutoff frequency (LPF)

Fixed high pass filter. When the position is switched 1, 2 or 3, the cutoff frequency is raised

This slider controls the level of the input control voltage from the input

Input jack for the control voltage that controls the VCF cutoff point



SPECIFICATIONS

-CONTROL

***VCO:**

VCO RANGE (32', 16', 8', 4', 2')
PITCH (greater than ± 1000 cent)
WAVEFORM (Triangle, Sawtooth, Square with variable pulse width)
PULSE WIDTH (MIN 50%)
PULSE WIDTH MODULATION
MODULATION (0-1 oct/V)
SYNCHRO (WEAK/STRONG)

***VCF:**

LPF CUTOFF (25 Hz-20kHz, 24dB/oct)
HPF CUTOFF (OFF, 1kHz, 2.2kHz, 5kHz, 6dB/oct)
LPF RESONANCE (0 to Self oscillation)
INPUT SIGNAL
MODULATION (0-1 oct/V)

-CONNECTION JACKS

***VCO**

MODULATION INPUT (Imp: Greater than 50kOhm)
PWM INPUT (Imp: Greater than 50kOhm)
VCO OUTPUT (10 Vp-p, Imp: less than 1kOhm)
SYNCHRO OUTPUT
SYNCHRO INPUT

***VCF**

SIGNAL INPUT (max 15Vp-p, Imp: greater than 50kOhm)
MODULATION INPUT (Imp: Greater than 50kOhm)
VCF OUTPUT (Imp: less than 1kOhm)

-INDICATOR

Normal load (GREEN): 200mVp-p
Overload (RED): 15Vp-p

-POWER CONSUMPTION

+15V $\pm 1\%$ 60mA
-15V $\pm 1\%$ 50mA
+22V $\pm 5\%$ 40mA (for LED's)

-DIMENSIONS

103(W)x230(H)x52(D)mm

-NET WEIGHT

500g



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