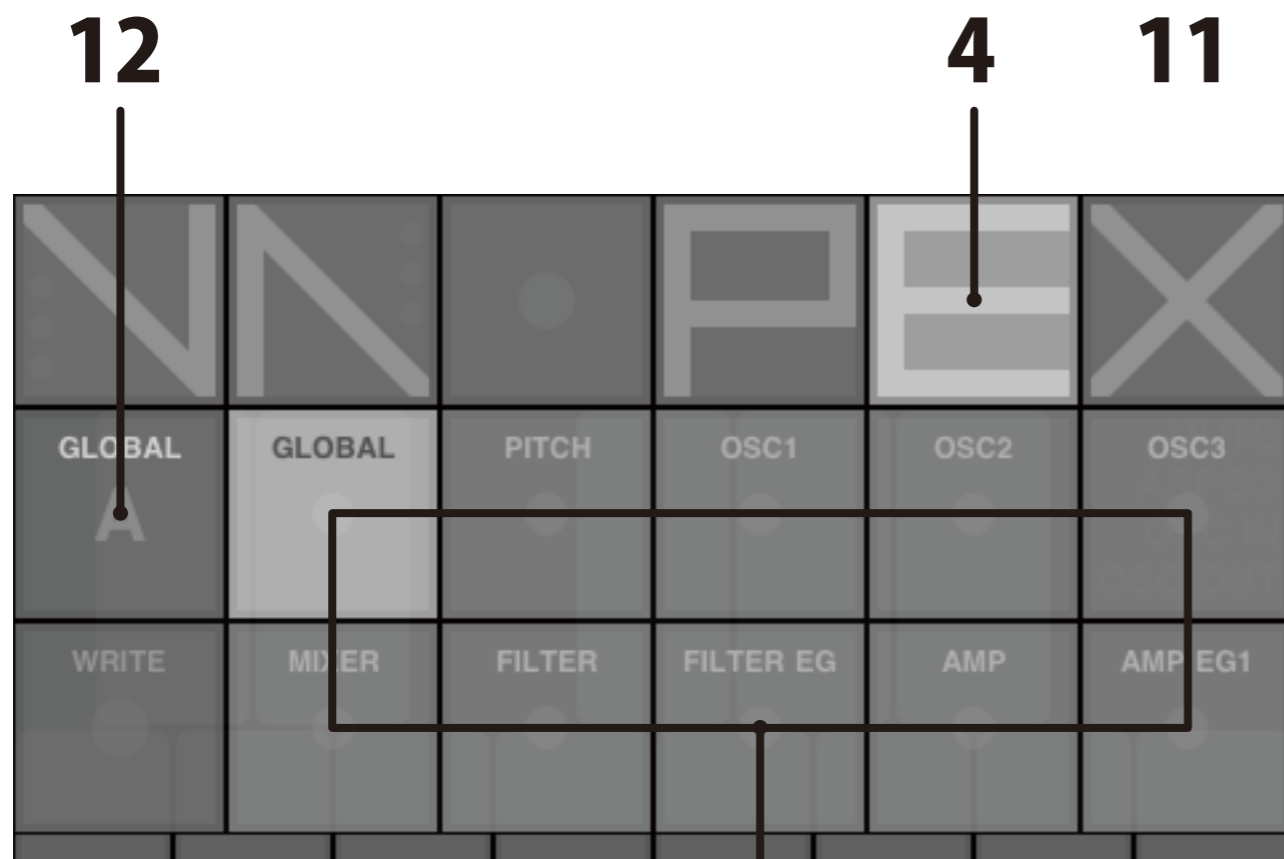
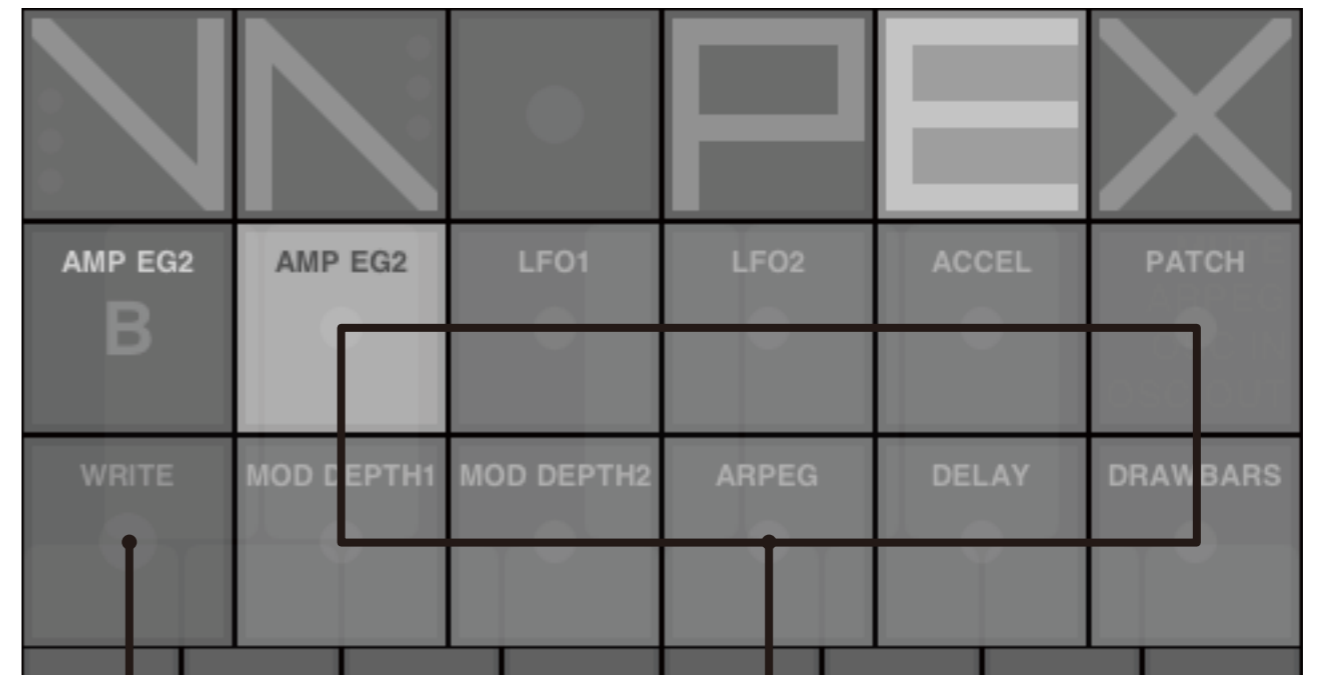
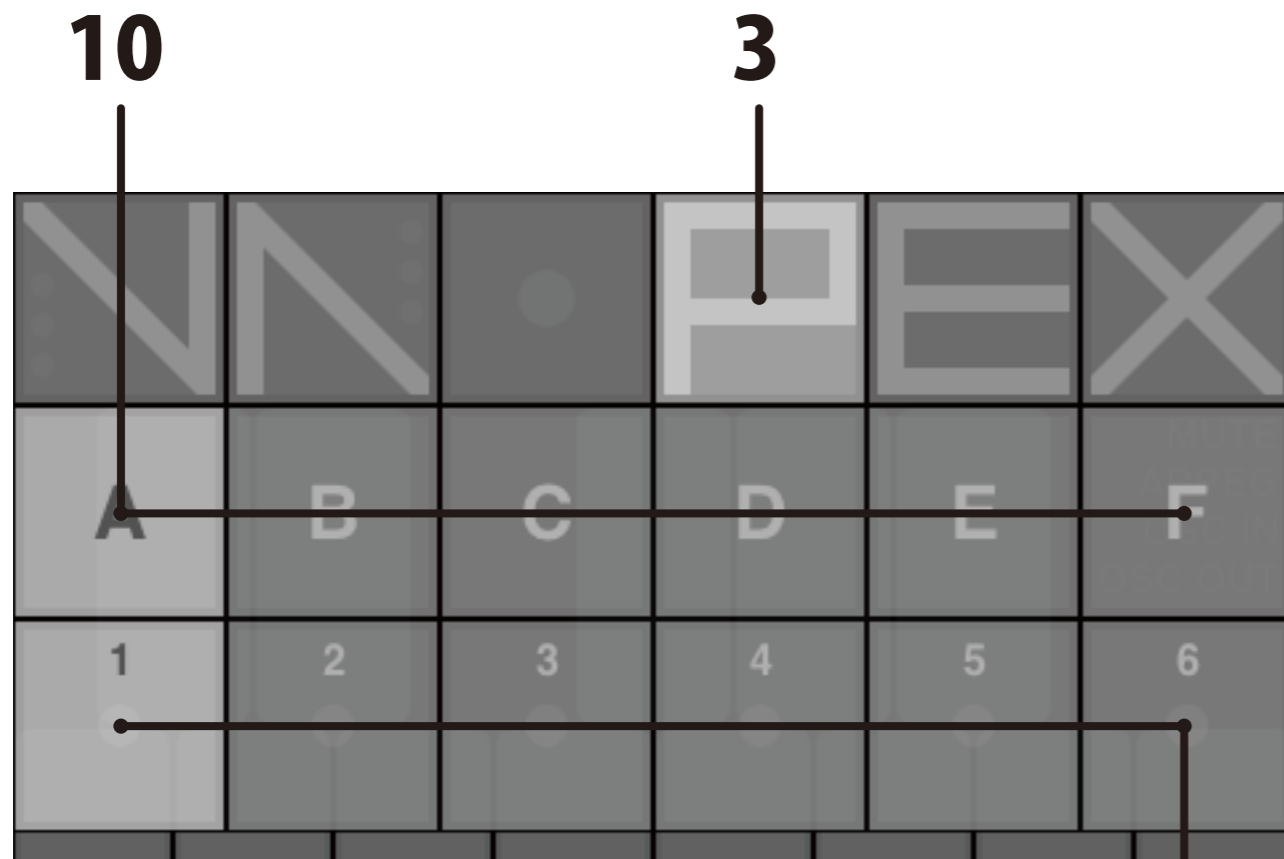


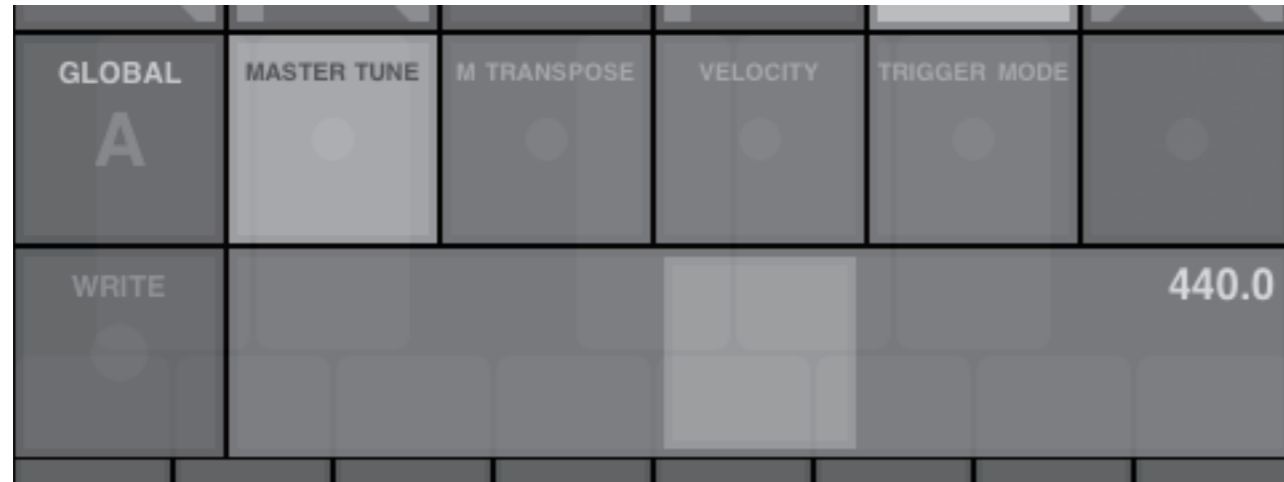
- 1 OCTAVE SHIFT UP, DOWN BUTTON**
- 2 SOUND MENU CHANGE BUTTON**
- 3 MASTER VOLUME PANEL DISPLAY BUTTON**
- 4 ARPEGGIAOR ON/OFF BUTTON**
- 5 PROGRAM PANEL DISPLAY BUTTON**
- 6 EDIT PANEL DISPLAY BUTTON**
- 7 MAIN NEMU DISPLAY BUTTON**
- 8 MUTE ON/OFF BUTTON**
- 9 VOLUME ADJUSTMENT SLIDER**



- 10 PROGRAM BANK SELECT BUTTONS (A ~ F)**
- 11 PROGRAM SOUND SELECT BUTTONS (1 ~ 6)**
- 12 EDIT PANEL A/B CHANGE BUTTON**
- 13 EDIT GROUP SELECT BUTTONS(A SIDE)**
- 14 EDIT GROUP SELECT BUTTONS(B SIDE)**
- 15 WRITE BUTTON**

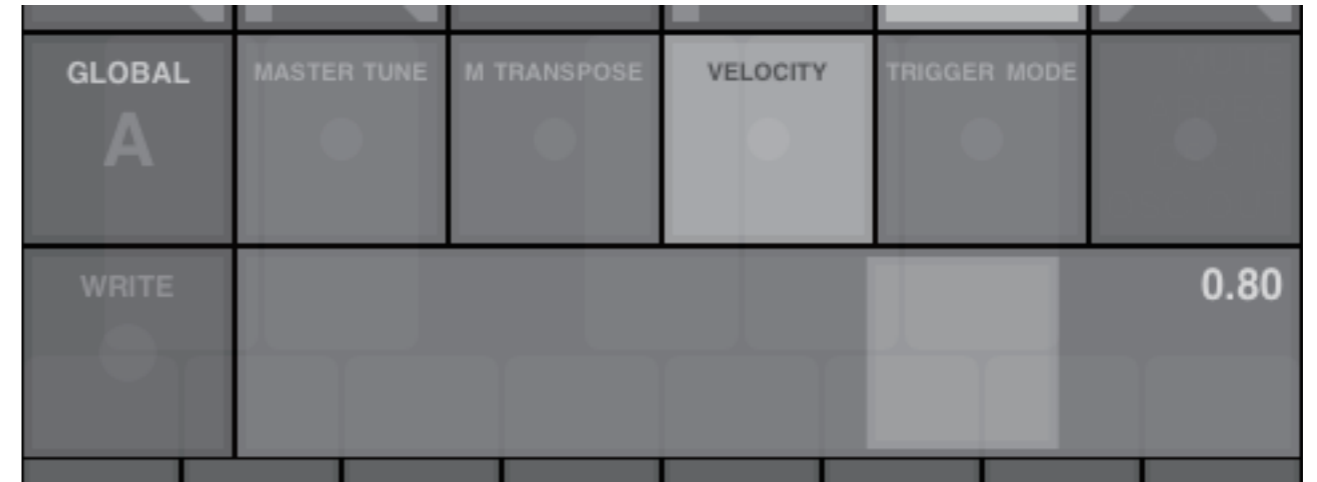
13

1. GLOBAL



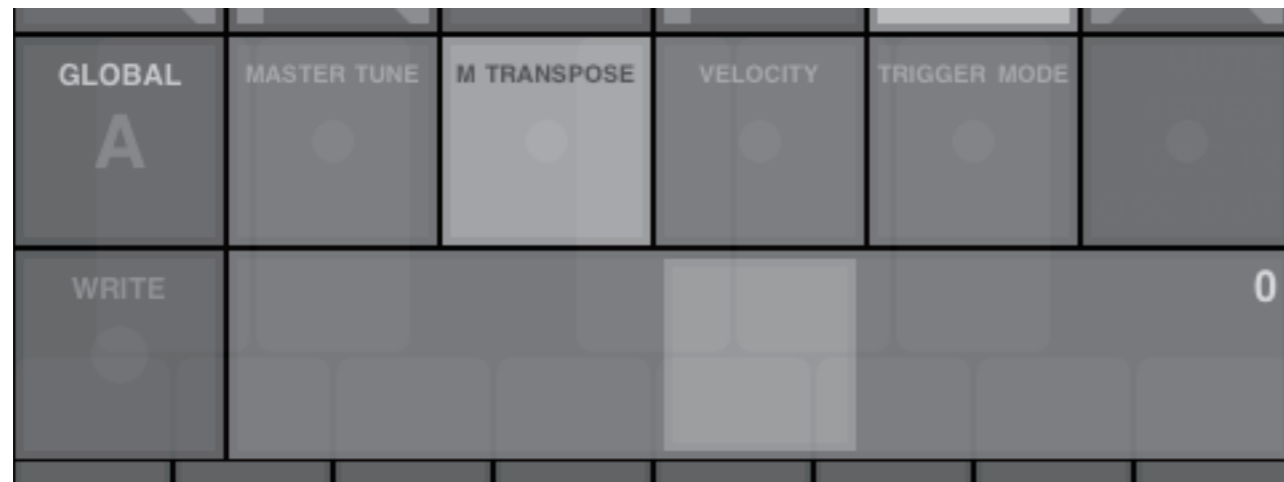
MASTER TUNE

Adjust the overall pitch in a range of 430.0 Hz to 450.0 Hz(A4).



VELOCITY

Select the velocity that will decide at the position of keypad.
Velocity Type : CURVE, LINEAR, FIXED(0.0 ~ 1.0)



MASTER TRANSPOSE

Adjust the overall pitch in a step of semitone.
Value : -12 ~ 12



TRIGGER MODE

Select the trigger mode.
Mode : SINGLE, MULTI

2. PITCH



TRANSPOSE

Adjust the pitch of oscillator in a step of semitone.

Value : -24 ~ 24



PORTAMENTO

Adjust the speed of portamento effect.

Value : 0.0 ~ 1.0

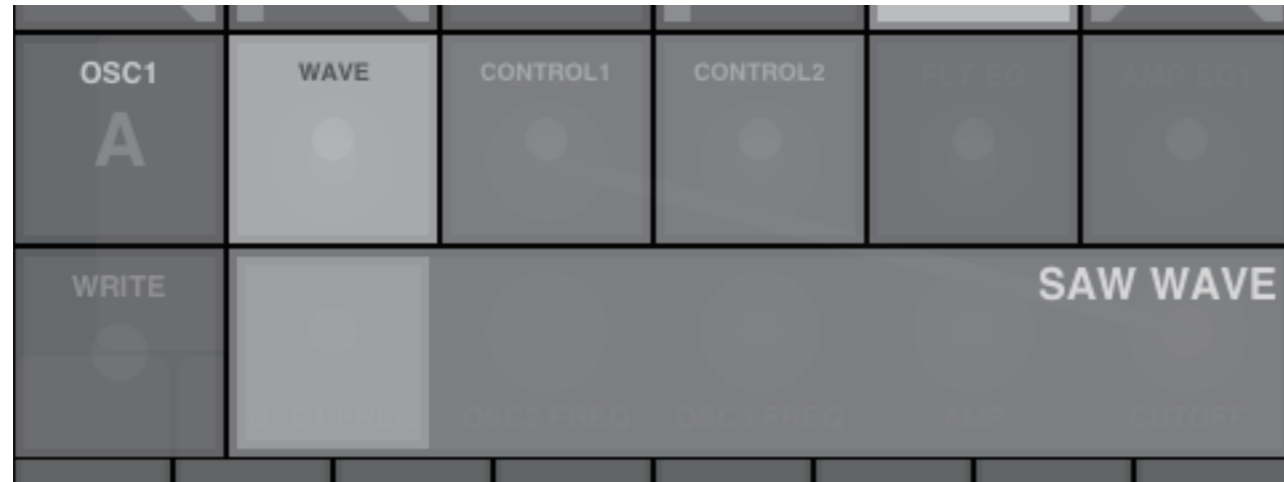


TUNE

Adjust the pitch of oscillator in a range of two semitones.

Value : -1.0 ~ 1.0

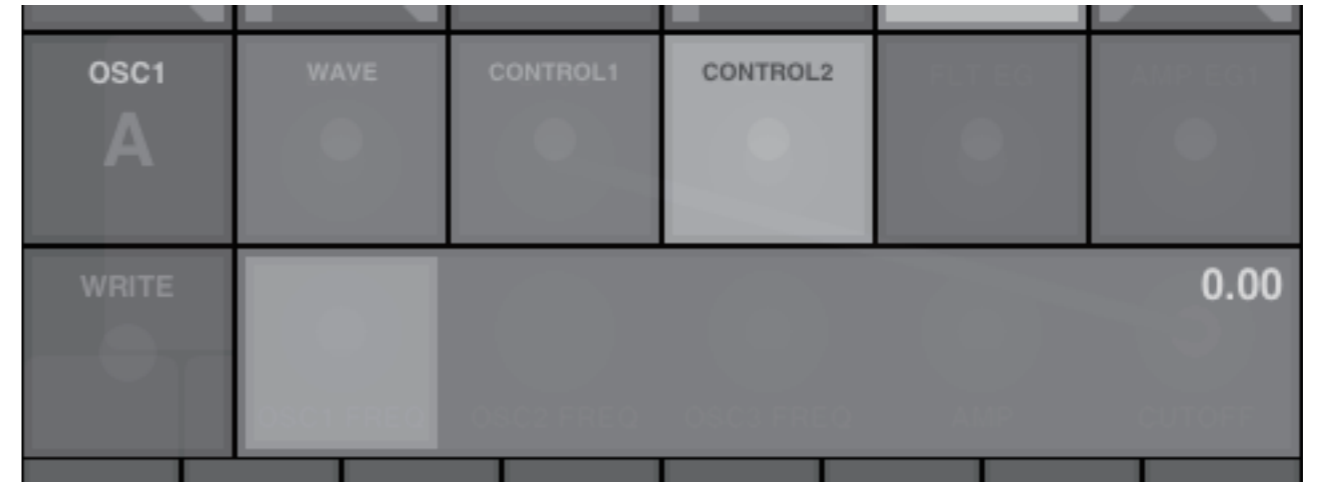
3. OSC1



WAVE

Select the waveform for OSC1.

Waveform : SAW, PULSE, TRIANGLE, SINE

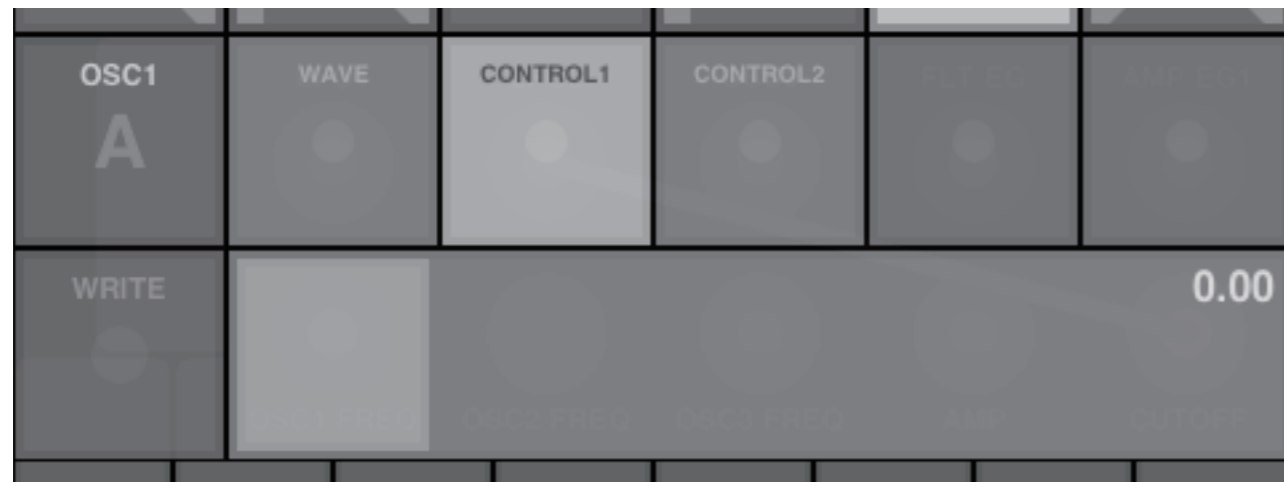


CONTROL2

Apply the modulation to waveform specified by CONTROL1.

Adjust the depth of modulation produced by LFO1.

Value : 0.0 ~ 1.0



CONTROL1

Adjust modifying of waveform.

Value : 0.0 ~ 1.0

4. OSC2



WAVE

Select the waveform for OSC2.

Waveform : SAW, SQUARE, TRIANGEL, SINE



SEMITONE

Adjust the detuning relative to OSC1 in a step of semitone.

Value : -24 ~ 24



OSC MOD

Select the type of OSC modulation with OSC1.

Type : OFF, RING, SYNC, RING SYNC



TUNE

Adjust the detuning relative to OSC1 in a range of two semitones.

Value : -1.0 ~ 1.0

4. OSC2



EG

Select the using Envelope Generator.

Type : AMP EG1, AMP EG2

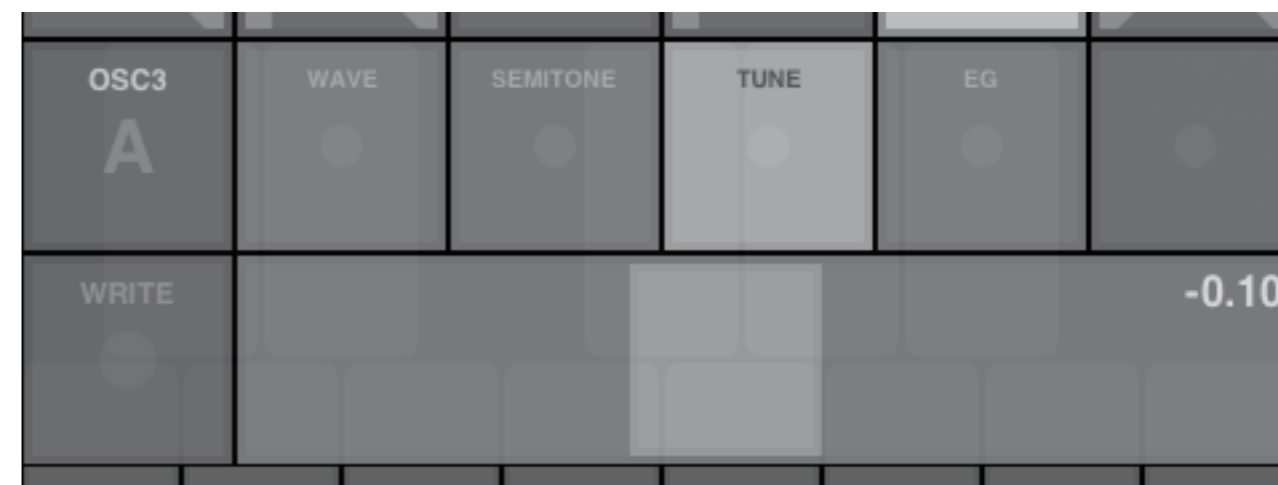
5. OSC3



WAVE

Select the waveform for OSC3.

Waveform : SAW, SQUARE, TRIANGEL, SINE, NOISE



TUNE

Adjust the detuning relative to OSC1 in a range of two semitones.

Value : -1.0 ~ 1.0



SEMITONE

Adjust the detuning relative to OSC1 in a step of semitone.

Value : -24 ~ 24



EG

Select the using Envelope Generator.

Type : AMP EG1, AMP EG2

6. MIXER



OSC1 LEVEL

Adjust the output level of OSC1.

Value : 0.0 ~ 1.0



OSC3 LEVEL

Adjust the output level of OSC3.

Value : 0.0 ~ 1.0



OSC2 LEVEL

Adjust the output level of OSC2.

Value : 0.0 ~ 1.0

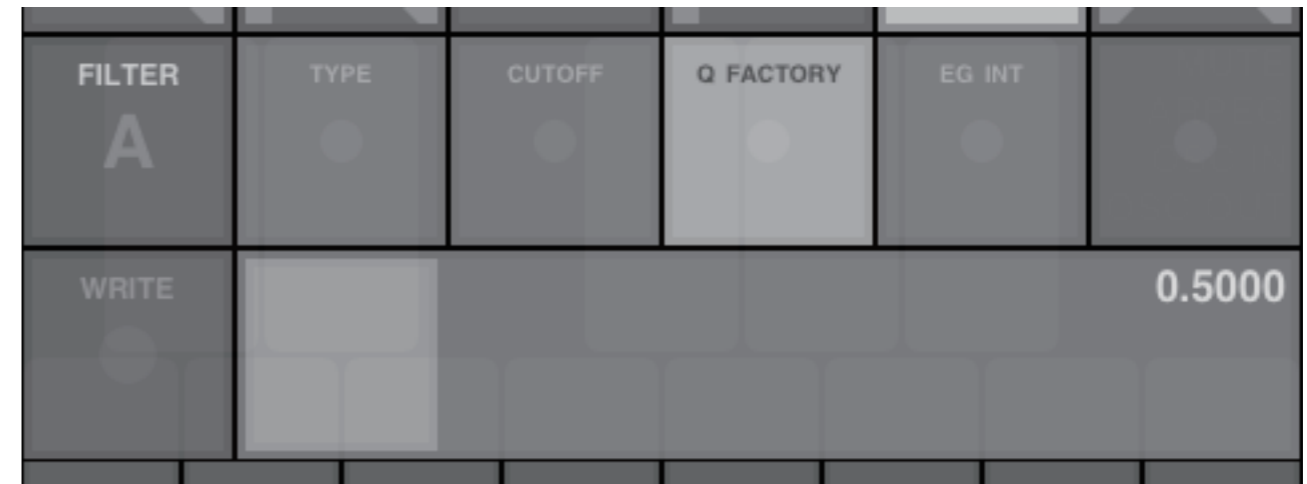
7. FILTER



TYPE

Select the type of filter.

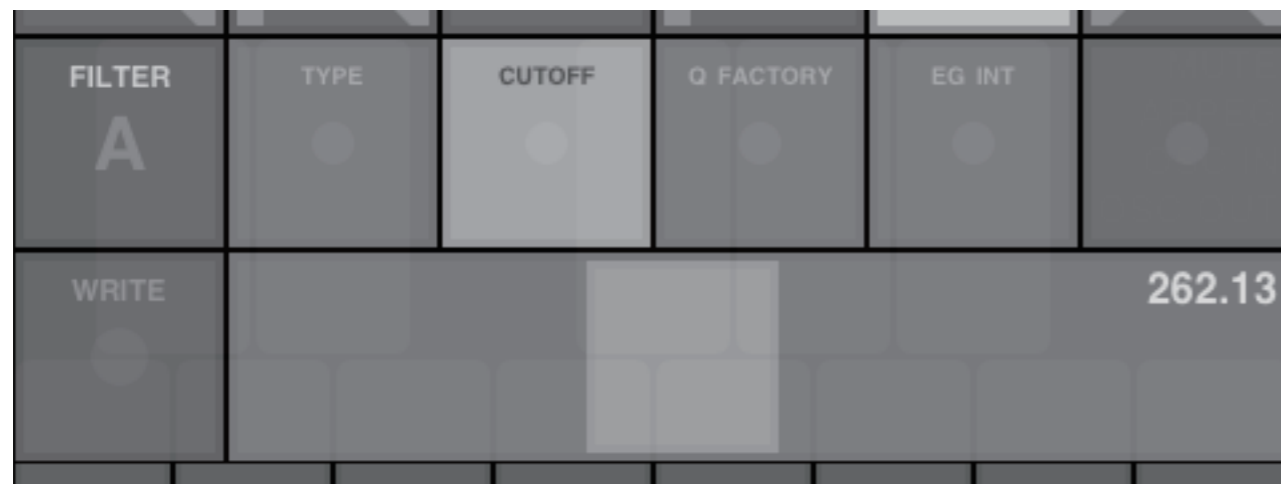
Type : LOW PASS, HIGH PASS, BAND PASS, BAND STOP



Q FACTORY

Adjust the Q factory of the filter.

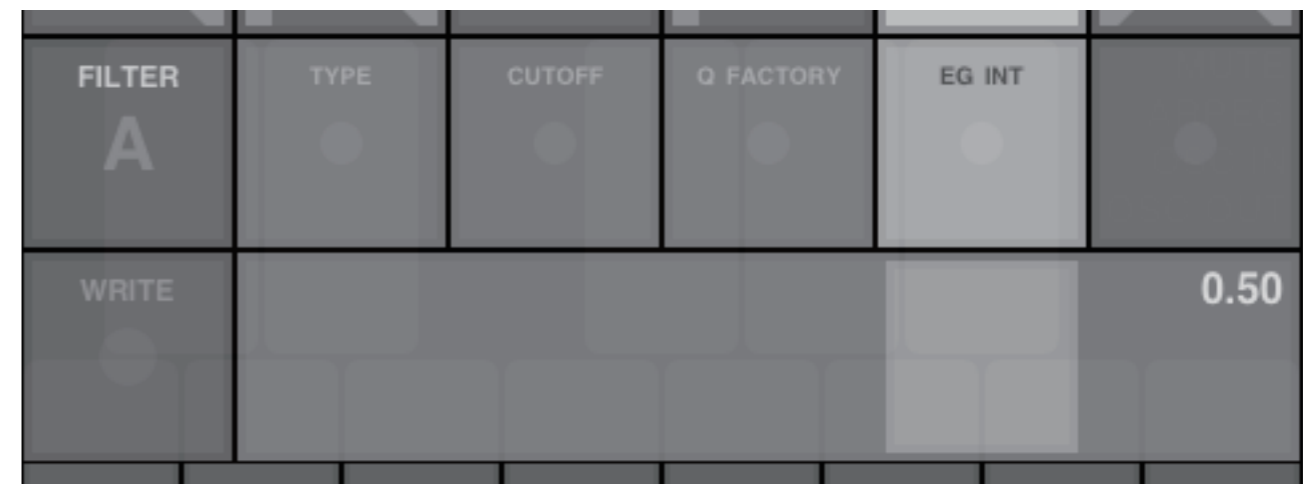
Value : 0.5 ~ 25.0



CUTOFF

Adjust the cutoff frequency.

Value : 50.0 ~ 18500.0

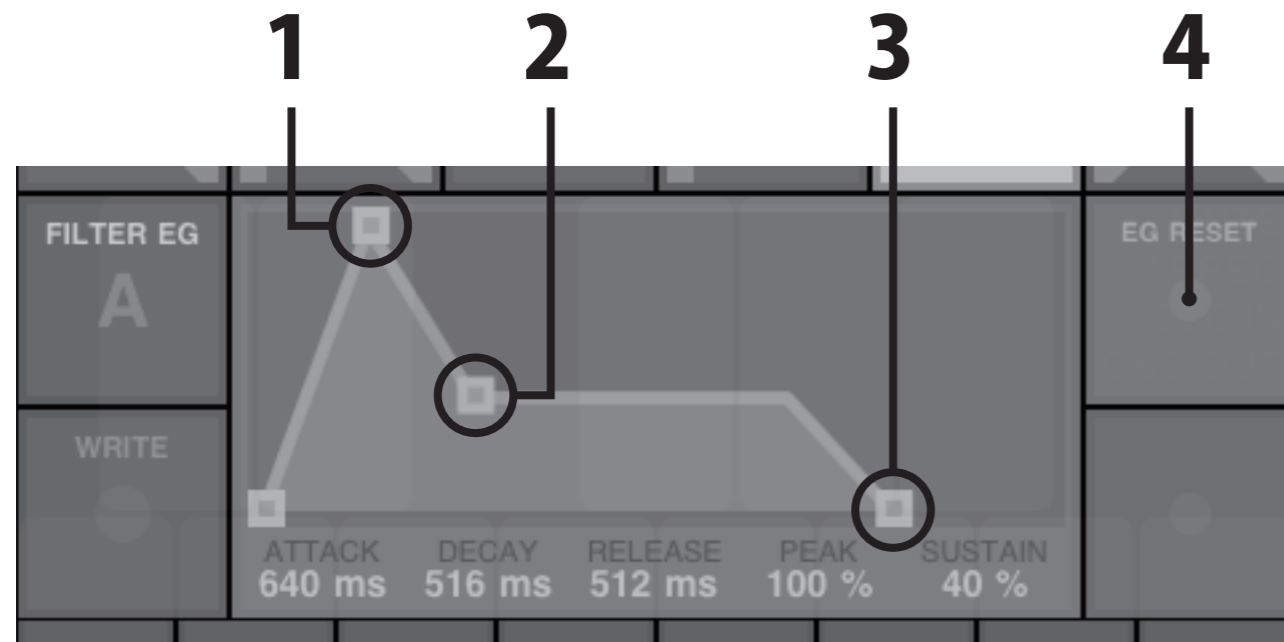


EG

Adjust the modulation depth from FILTER EG.

Value : -1.0 ~ 1.0

8. FILTER EG



1. PEAK, ATTACK

Adjust the attack value and the peak value.

ATTACK(sec) : 0.0002 ~ 10.0

PEAK(%) : 0.0 ~ 100.0

2. DECAY, SUSTAIN

Adjust the decay value and the sustain value.

DECAY(sec) : 0.005 ~ 20.0

SUSTAIN(%) : 0.0 ~ 100.0

3. RELEASE

Adjust the release value.

RELEASE(sec) : 0.005 ~ 20.0

4. EG RESET

Set the EG RESET.

OFF : The second Note On will start from the current EG level.

ON : The second Note On will start from the level of 0.

9. AMP



LEVEL

Adjusts the mixing level. Use the distortion effect.
Value : 0.0 ~ 5.0



OSC2 PAN

Adjust the panning position of OSC2.
Value : -1.0(Left) ~ 1.0(Right)



OSC1 PAN

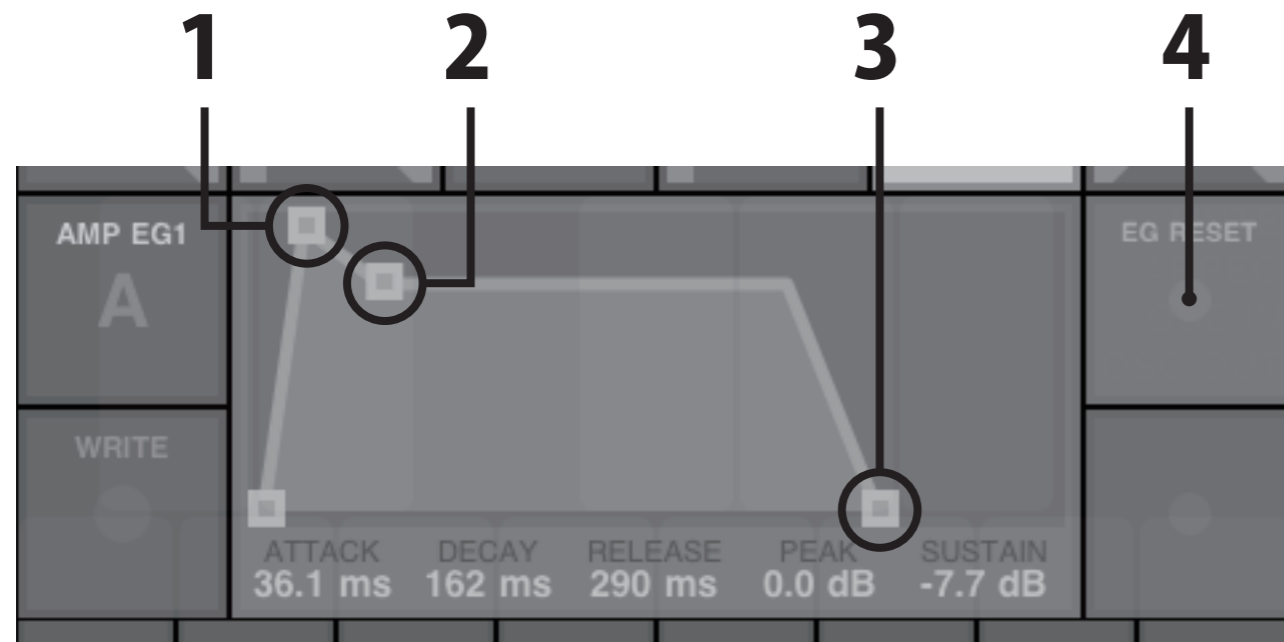
Adjust the panning position of OSC1.
Value : -1.0(Left) ~ 1.0(Right)



OSC3 PAN

Adjust the panning position of OSC3.
Value : -1.0(Left) ~ 1.0(Right)

10. AMP EG1 , 11. AMP EG2



1. PEAK, ATTACK

Adjust the attack value and the peak value.

ATTACK(sec) : 0.0002 ~ 10.0

PEAK(dB) : 0.0 ~ -inf

2. DECAY, SUSTAIN

Adjust the decay value and the sustain value.

DECAY(sec) : 0.005 ~ 20.0

SUSTAIN(dB) : 0.0 ~ -inf

3. RELEASE

Adjust the release value.

RELEASE(sec) : 0.005 ~ 20.0

4. EG RESET

Set the EG RESET.

OFF : The second Note On will start from the current EG level.

ON : The second Note On will start from the level of 0.

12. LFO1 , 13. LFO2



WAVE

Select the waveform for LFO.

Waveform : SINE, SAW1, SAW2, SQUARE1, SQUARE2, TRIANGEL1, TRIANGEL2



FREQUENCY

Adjust the frequency of LFO.

LFO1 Value : 0.0 ~ 20.0

LFO2 Value : 0.0 ~ 60.0



KEY SYNC

Set the KEY SYNC.

OFF : The LFO phase not will be reset when "note on" occurs.

ON : The LFO phase will be reset at each "note on" .

14. ACCEL

ACCEL	FREQUENCY	ACCEL1 OUT	ACCEL2 OUT	ACCEL1 FILTER	ACCEL2 FILTER
B					
WRITE					40

FREQUENCY

Set the update frequency of accelerometer.
Hz : OFF, 1 ~ 60

ACCEL	FREQUENCY	ACCEL1 OUT	ACCEL2 OUT	ACCEL1 FILTER	ACCEL2 FILTER
B					
WRITE					OFF

ACCEL1 FILTER , ACCEL2 FILTER

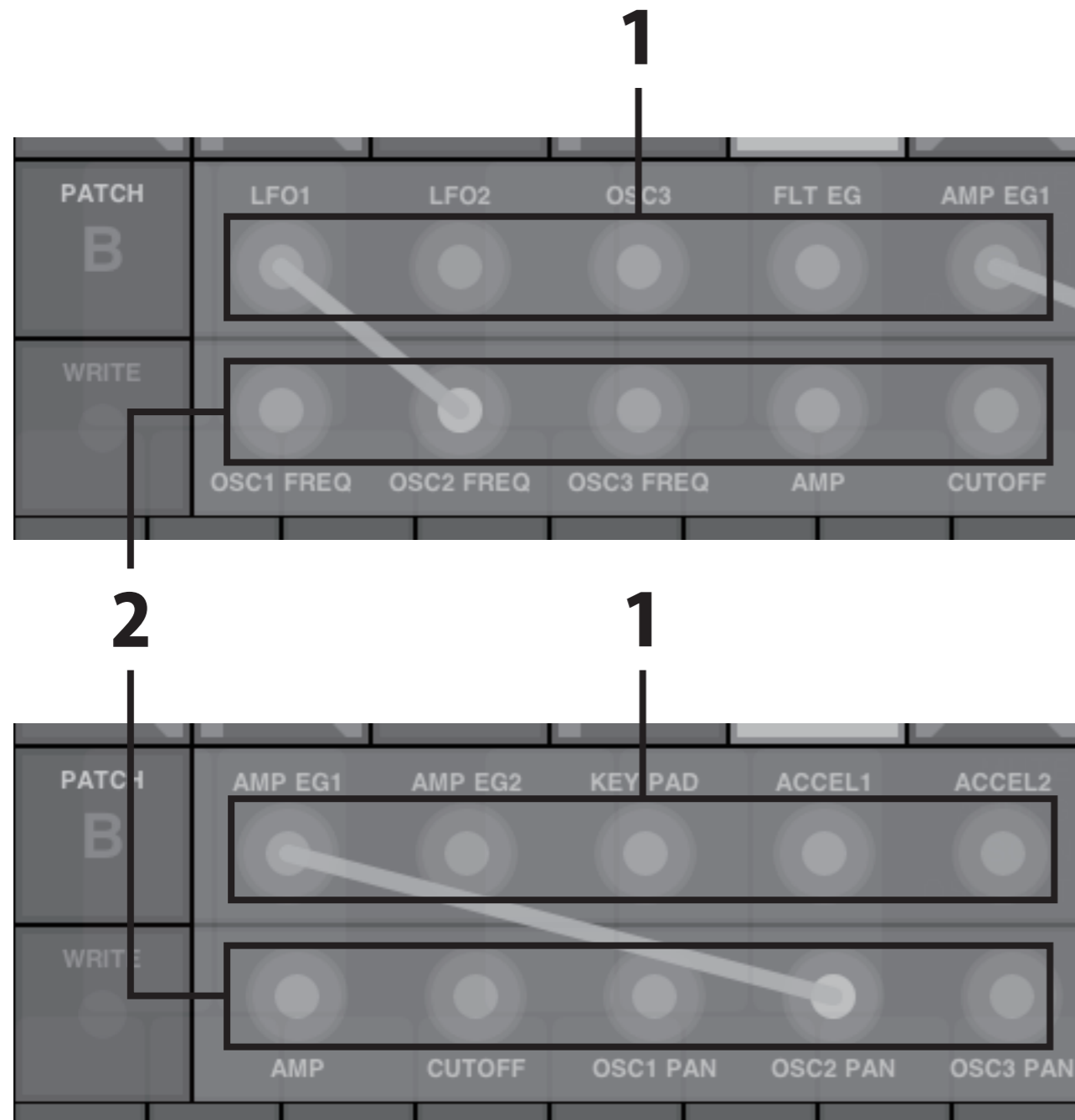
Set the filter of output value of accelerometer. (OFF, ON)

ACCEL	FREQUENCY	ACCEL1 OUT	ACCEL2 OUT	ACCEL1 FILTER	ACCEL2 FILTER
B					
WRITE					X ACCEL

ACCEL1 OUT , ACCEL2 OUT

Select the output value of accelerometer.
Output value : X ACCEL, Y ACCEL, Z ACCEL

15. PATCH



PATCH CORD

Connect the modulation source and the destination.

1. SOURCE : LFO1, LFO2, OSC3, FILTER EG, AMP EG1, AMP EG2, KEY PAD, ACCEL1, ACCEL2
2. DESTINATION : OSC1 FREQ, OSC2 FREQ, OSC3 FREQ, AMP, CUTOFF, OSC1 PAN, OSC2 PAN, OSC3 PAN

16. MOD DEPTH1 , 17. MOD DEPTH2

MOD DEPTH1	OSC1 FREQ	OSC2 FREQ	OSC3 FREQ	AMP	CUTOFF
B					
WRITE					0.42

MOD DEPTH2	OSC1 PAN	OSC2 PAN	OSC3 PAN		
B					
WRITE					-0.44

**OSC1 FREQ, OSC2 FREQ, OSC3 FREQ, AMP, CUTOFF,
OSC1 PAN, OSC2 PAN, OSC3 PAN**

Adjust the depth of modulation.

Value : -1.0 ~ 1.0

18. ARPEG

ARPEG	TEMPO	RESOLUTION	GATE	TYPE	RANGE
B					
WRITE					120

TEMPO

Adjust the tempo of arpeggio.

Tempo : 20 ~ 300

ARPEG	TEMPO	RESOLUTION	GATE	TYPE	RANGE
B					
WRITE					100.00

GATE

Adjust the gate time.

% : 0.0 ~ 100.0

ARPEG	TEMPO	RESOLUTION	GATE	TYPE	RANGE
B					
WRITE					1/12

RESOLUTION

Adjust the resolution relative to tempo.

Resolution : 1/24, 1/16, 1/12, 1/8, 1/6, 1/4

ARPEG	TEMPO	RESOLUTION	GATE	TYPE	RANGE
B					
WRITE					UP_DOWN1

TYPE

Select the arpeggio type.

Type : UP, DOWN, UP DOWN1, UP DOWN2, RANDOM

18. ARPEG

ARPEG B	TEMPO	RESOLUTION	GATE	TYPE	RANGE
WRITE					2

RANGE

Set the range of octaves.

Range : 1 ~ 4

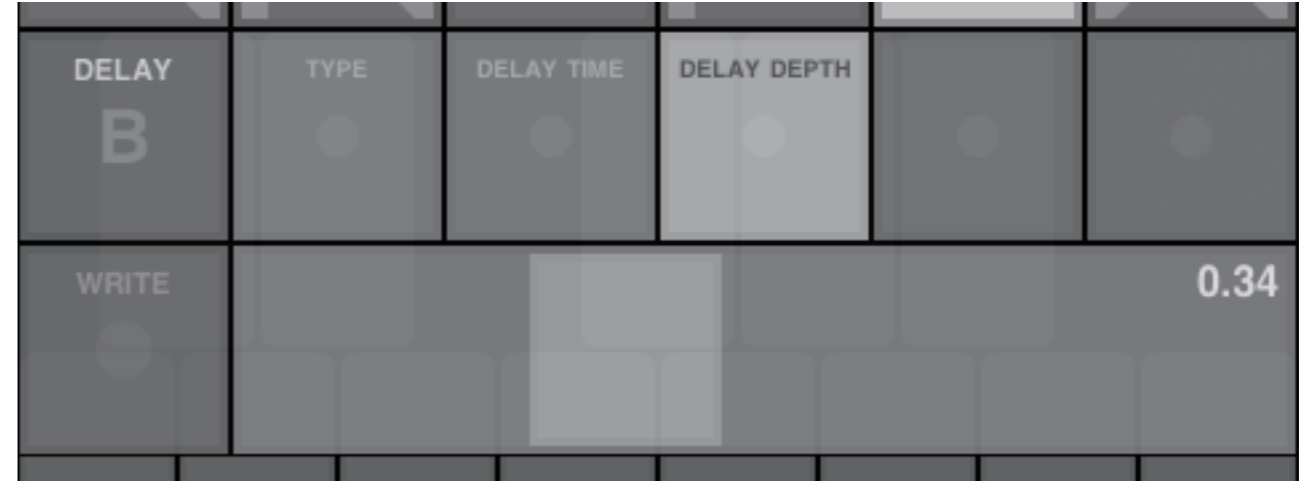
19. DELAY



TYPE

Select the delay type.

Type : STEREO DELAY, CROSS DELAY, L/R DELAY



DELAY DEPTH

Adjust the delay depth.

Value : 0.0 ~ 1.0

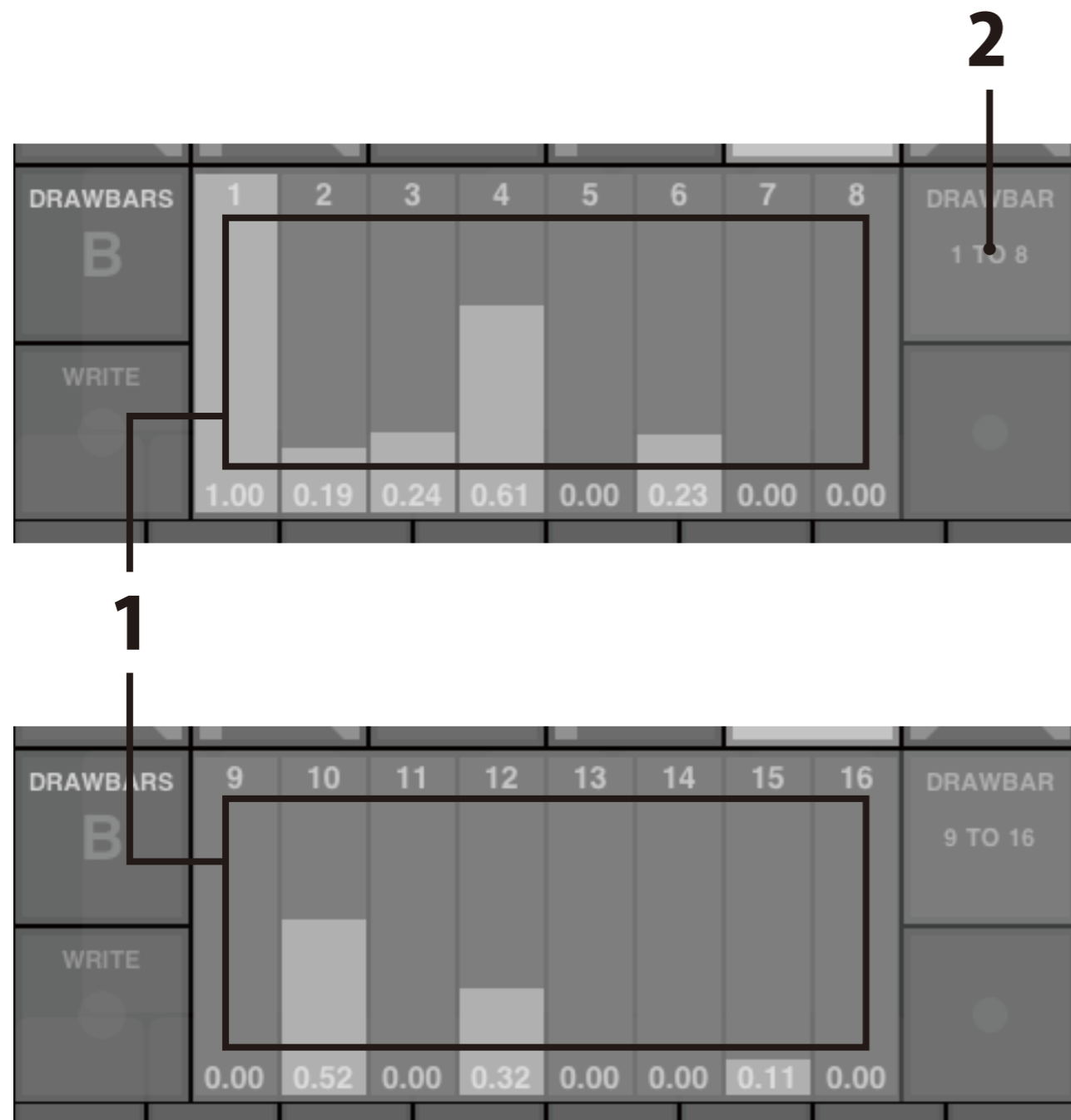


DELAY TIME

Adjust the delay time.

Sec : 0.0 ~ 2.0

20. DRAWBARS



DESIGNED WAVE

Create a original wave form for OSC3.

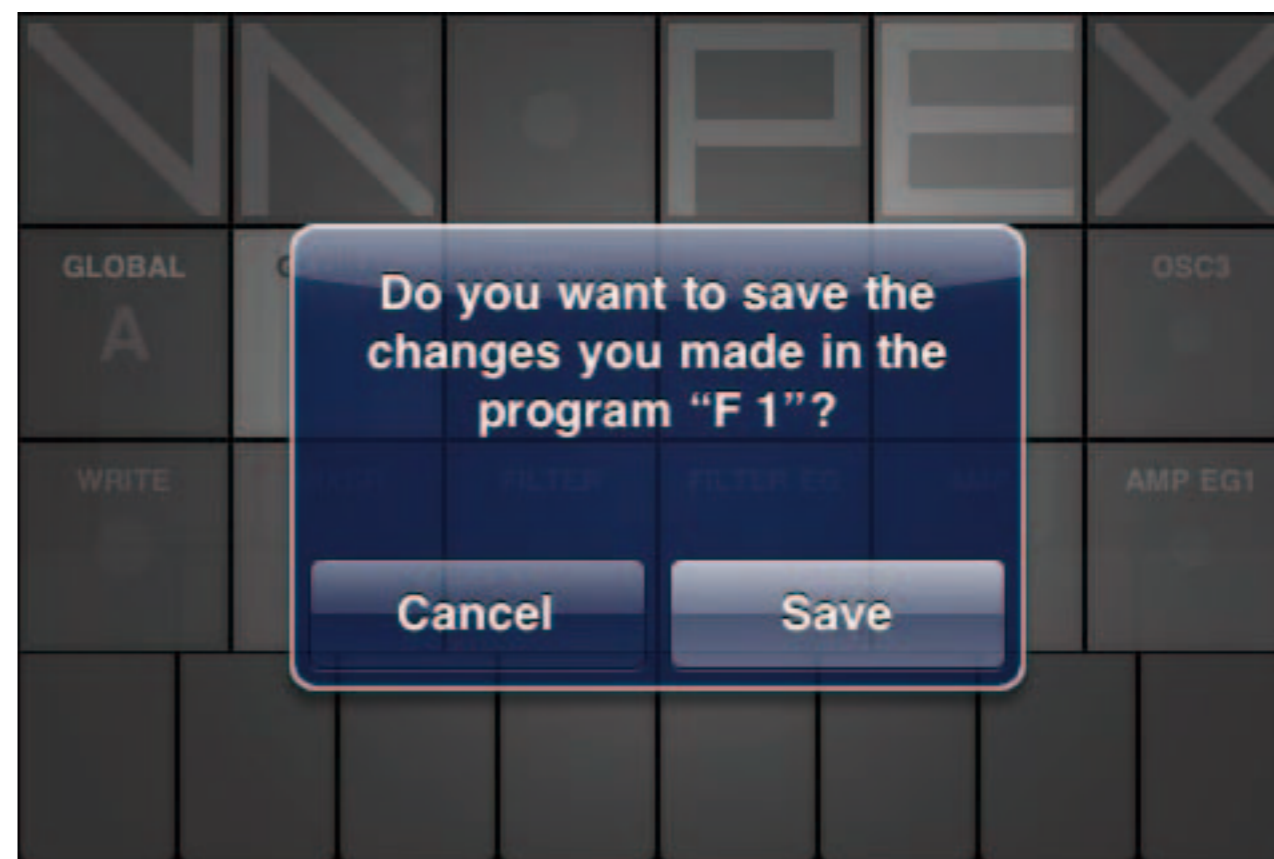
1. DRAWBARS (12 harmonics) : Adjust the amplitude of each harmonic.
2. PANEL CHANGE BUTTON

21. WRITE



1. SAVE THE PROGRAM

To save the current program settings, press the "WRITE" button for one second or more.



2. LOAD THE PRESET PROGRAMS

To change to the preset programs(A1~E6), press the "WRITE" button for five seconds or more.

