Cš-L
Complex Oscillator

| sɪː-əz-ɛl | **proverb** (derivative)
"complex sauce-later" (see Tš-L)

INSTRUŌ

LFO
COARSE
FINE
PWM
CV
1V/OCT
SYNC
MOD
WAVEFOLD
INDEX
RING AM RECT
CV
FINAL
FM
LIN EXP
MULTIPLY
FM
FINAL
DEPTH
COARSE
FINE
WAVEFOLD
1V/OCT
SUB
SYNC
CV
LINK
PWM

Cš-L
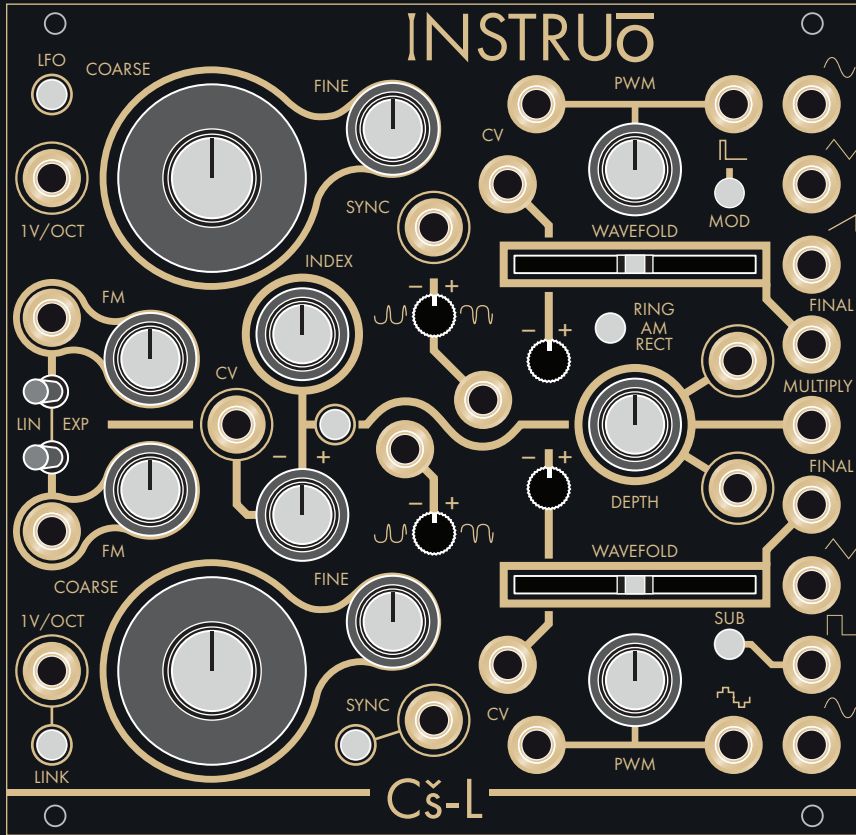
	MOD BUTTON
MOD	USED TO SET INTERNAL ROUTING THROUGH INDEX VCA TO PWM CV INPUTS
●	UNILLUMINATED - ROUTING DISABLED
☼	ILLUMINATED WHITE - OSC A SINEWAVE > OSC B PWM CV INPUT OSC B SINEWAVE > OSC A PWM CV INPUT
☀	ILLUMINATED AMBER - OSC A SINEWAVE > OSC B PWM CV INPUT

	RING/AM/RECT BUTTON	
RING AM RECT	DETERMINES THE AMPLITUDE MODULATION MODE FOR MULTIPLY MODULATOR INPUT	
●	UNILLUMINATED - BIPOLAR MODULATION	∿
☼	ILLUMINATED WHITE - HALF WAVE RECTIFICATION	∿
☀	ILLUMINATED AMBER - FULL WAVE RECTIFICATION	∿

	ILLUMINATED WHITE -
LFO ○	OSC A OUTPUTS SUB AUDIO FREQUENCIES

	OSC A HARD SYNC FROM OSC B
SYNC ☼	OSC A / OSC B

	OSC B SOFT SYNC FROM OSC A
SYNC ☀	OSC A / OSC B

|	
LINK ○	UNILLUMINATED - LINKING IS DISABLED ILLUMINATED WHITE - 1V/OCT INPUTS CONTROL BOTH OSC A AND OSC B (IF BOTH PATCHED, OSC WILL TRACK INDEPENDENTLY)

OSC A
OSC B
OSC A
OSC B

INTERNAL MODULATION ROUTING

INDEX

THE **INDEX BUTTON** FUNCTIONS AS A "SHIFT" CONTROL. WHEN PRESSED THE CORRESPONDING BUTTONS ILLUMINATE TO DISPLAY THE ROUTING CURRENTLY ENABLED.

ROUTING CAN BE ENABLED / DISABLED BY TOGGLING THE ASSOCIATED BUTTON.

THE **INDEX** CONTROLLED SINE WAVEFORMS ARE USED FOR INTERNAL MODULATION (OSC A CAN MODULATE THE PARAMETERS OF OSC B, AND VISE VERSA).

PRESS & HOLD
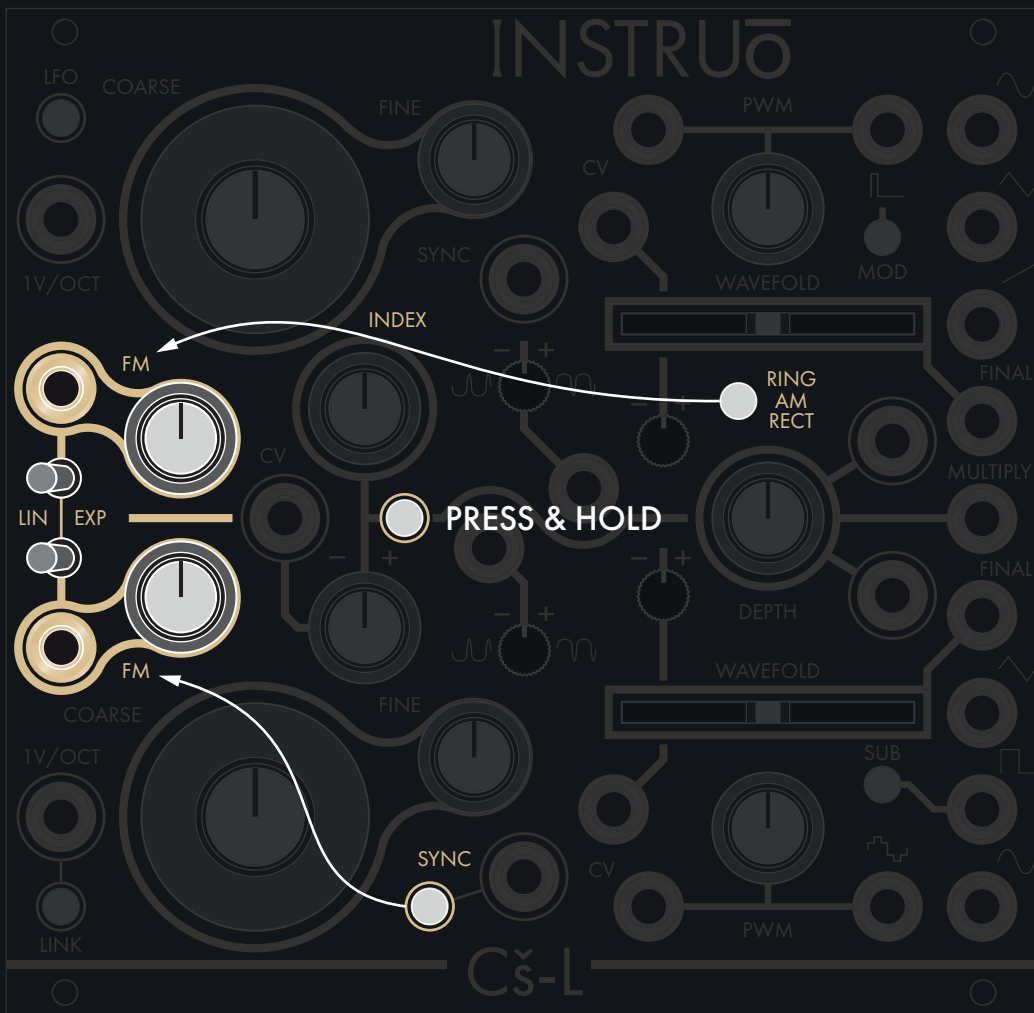
THE **RING/AM/RECT BUTTON** IS USED TO ENABLE / DISABLE THE MODULATION ROUTING TO THE FM INPUT OF OSC A.

(WHEN DISABLED, THE SINE WAVEFORM OF OSC B IS DIRECTLY NORMALLED TO THIS DESTINATION AND NOT CONTROLLED BY THE **INDEX** PARAMETER).

THE **SYNC BUTTON** IS USED TO ENABLE / DISABLE THE MODULATION ROUTING TO THE FM INPUT OF OSC B.

(WHEN DISABLED, THE SINE WAVEFORM OF OSC A IS DIRECTLY NORMALLED TO THIS DESTINATION AND NOT CONTROLLED BY THE **INDEX** PARAMETER).

INTERNAL MODULATION ROUTING

LFO

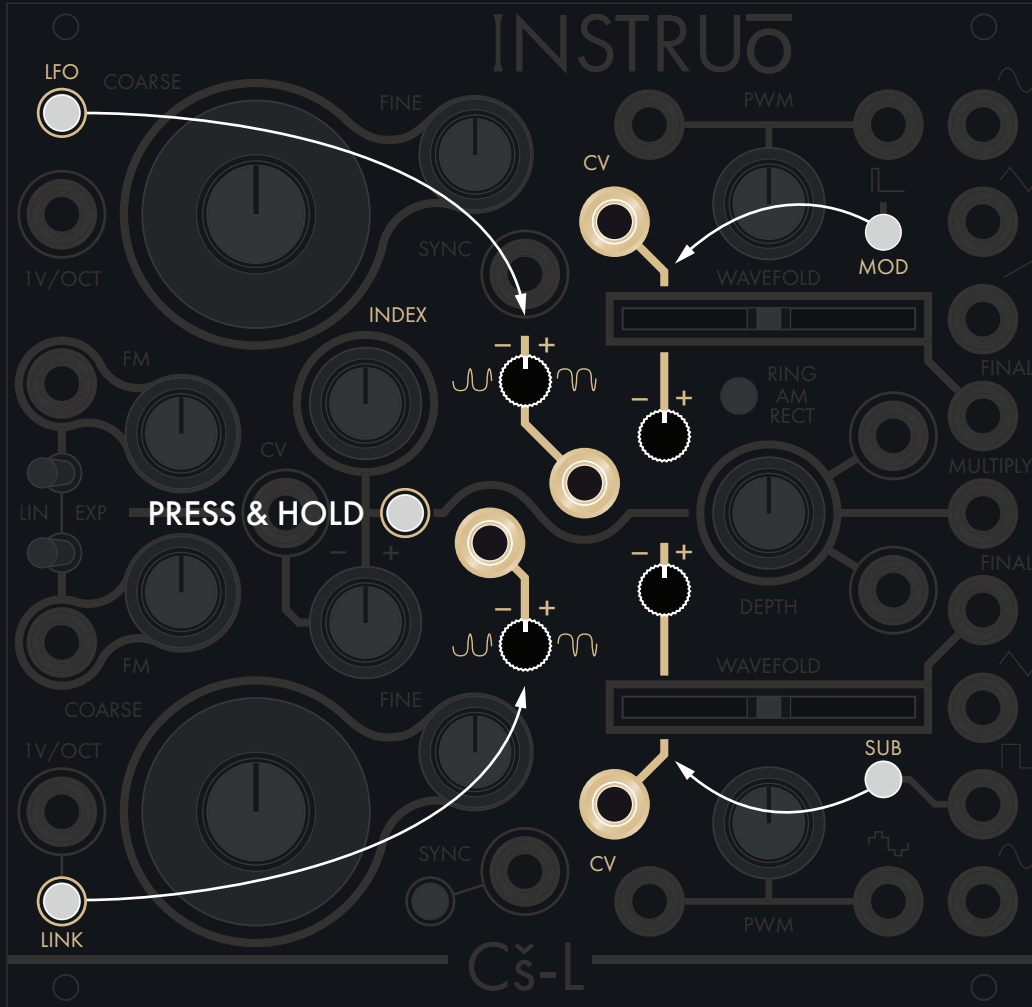THE **LFO BUTTON** IS USED TO ENABLE / DISABLE MODULATION ROUTING TO THE SYMMETRY BIAS INPUT OF OSC A.

THE MODULATION SIGNAL REPLACES THE DEFAULT REFERENCE VOLTAGE. THE **SYMMETRY BIAS ATTENUVERTER** WILL CONTROL THE INVERSION AND DEPTH OF THE **INDEX** MODULATION SIGNAL.

LINK

THE **LINK BUTTON** IS USED TO ENABLE / DISABLE MODULATION ROUTING TO THE SYMMETRY BIAS INPUT OF OSC B.

THE MODULATION SIGNAL REPLACES THE DEFAULT REFERENCE VOLTAGE. THE **SYMMETRY BIAS ATTENUVERTER** WILL CONTROL THE INVERSION AND DEPTH OF THE **INDEX** MODULATION SIGNAL.

MOD

THE **MOD BUTTON** IS USED TO ENABLE / DISABLE THE MODULATION ROUTING TO THE **WAVEFOLD CV INPUT** OF OSC A

SUB

THE **SUB BUTTON** IS USED TO ENABLE / DISABLE THE MODULATION ROUTING TO THE **WAVEFOLD CV INPUT** OF OSC B

INSTRUō

PRESS & HOLD

Cš-L