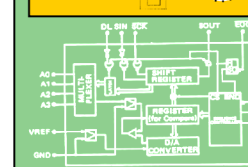


DCO - Digitally Controlled Oscillator

PULSE WAVEFORM	SAW WAVEFORM	PULSE WITH	SUB OSCILLATOR		NOISE	DCO PITCH	DCO ENV PITCH MODULATION MODE		LFO PITCH MODULATION DEPTH	PORTAMENTO
DIN PIN10 BTN	DIN PIN11 BTN	WAVE 3 AIN PIN 6 POT	DIN PIN12 BTN WAVE FORM	DIN PIN13 BTN LEVEL	DIN PIN14 BTN LEVEL	DIN PIN15 BTN RANGE	DIN PIN16 BTN DCO PITCH ENV NORMAL LED DOUT 28	AIN PIN 9 POT MODULATION	DIN PIN 17 BTN PORTA LED DOUT 32	
OFF LED DOUT 0	OFF LED DOUT 4		SUB WAVE 0 LED DOUT 10	SUB OSC. OFF LEVEL 0 LED DOUT 16	NOISE OFF LED DOUT 20	4' LED DOUT 24	ENV INVERT LED DOUT 29			
WAVE 1 LED DOUT 1	WAVE 1 LED DOUT 5		SUB WAVE 1 LED DOUT 11	SUB OSC. LEVEL 1 LED DOUT 17	NOISE LEVEL 1 LED DOUT 21	8' LED DOUT 25	NORM. WITH DYN. LED DOUT 30	BENDER PITCH RANGE AIN PIN 10 POT	PORTA TIME AIN PIN 12 POT	
WAVE 2 LED DOUT 2	WAVE 2 LED DOUT 6	PWM RATE	SUB WAVE 2 LED DOUT 12	SUB OSC. LEVEL 2 LED DOUT 18	NOISE LEVEL 2 LED DOUT 22	16' LED DOUT 26	INV. WITH DYN. LED DOUT 31			
WAVE 3 LED DOUT 3	WAVE 3 LED DOUT 7	WAVE 3 AIN PIN 7 POT	SUB WAVE 3 LED DOUT 13	SUB OSC. LEVEL 3 LED DOUT 19	NOISE LEVEL 3 LED DOUT 23	32' LED DOUT 27		PITCH MODULATION DEPTH AIN PIN 8 POT	VOLUME AIN PIN 13 POT	
WAVE 4 LED DOUT 8	WAVE 5 LED DOUT 9		SUB WAVE 4 LED DOUT 14					AFTERTOUCH SENSITIVITY AIN PIN 11 POT		



VCF - Voltage Controlled Filter

VCF CUTOFF	VCF - ENV MODULATION (MODE)	VCF - LFO DEPTH
AIN PIN 0 POT CUTOFF FREQ. 8Hz to 33kHz -24dB/oct	DIN PIN18 BTN NORMAL LED DOUT 37 INVERT LED DOUT 38 NORM. + DYN. LED DOUT 39 DYNAMICS LED DOUT 40	AIN PIN 3 POT MODULATION
VCF RESONANCE AIN PIN 1 POT	ENV - VCF MODULATION DEPTH AIN PIN 2 POT	VCF KEYB. FOLLOWER AIN PIN 4 POT
	AFTERTOUCH AIN PIN 5 POT	

HPF

HIGH PASS FILTER
DIN PIN19 BTN MODULATION
LOW FRQ. EMPHASIZED LED DOUT 33
HPF FILTER OFF LED DOUT 34
HPF CUTOFF LOW. FREQ. LED DOUT 35
HPF CUTOFF HIGH. FREQ. LED DOUT 36

LFO

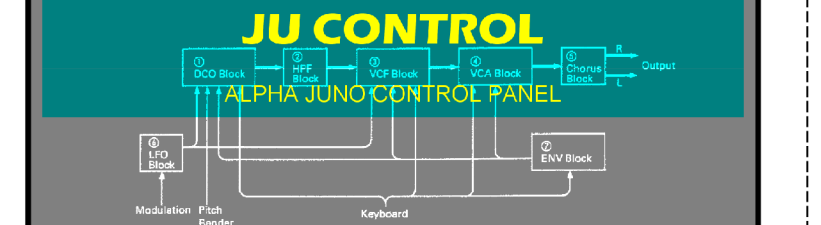
LFO RATE
AIN PIN 24 POT RATE 0.03 - 60Hz
LOW FREQUENCY OSCILLATOR
LFO DELAY
DELAY TIME 0 - 30s AIN PIN 25 POT
LOW FREQUENCY OSCILLATOR

CHORUS

CHORUS RATE
DIN PIN 21 BTN ON LED DOUT 41
CHORUS RATE AIN PIN 26 POT

JU CONTROL

ALPHA JUNO CONTROL PANEL



2x 20 LCD

ESC	SELECT	MENU
DIN PIN 7 BTN	DIN PIN 6 BTN	DIN PIN 0+1 ENC
EXEC DIN PIN 8 BTN		VALUE DIN PIN 2+3 ENC
F1 DIN PIN 22 BTN	F2 DIN PIN 23 BTN	F3 DIN PIN 24 BTN
F4 DIN PIN 25 BTN	F5 DIN PIN 26 BTN	

ENV - Envelope

ENV L1	ENV L2	ENV L3	KEYBOARD FOLLOWER
ATTACK LEVEL AIN PIN 16 POT	BREAK LEVEL AIN PIN 17 POT	SUSTAIN LEVEL AIN PIN 18 POT	AIN PIN 19 POT
ENV T1 ATTACK TIME AIN PIN 20 POT	ENV T2 BREAK TIME AIN PIN 21 POT	ENV T3 DECAY TIME AIN PIN 22 POT	ENV T4 RELEASE TIME AIN PIN 23 POT

VCA

VCA MODE	VCA LEVEL
DIN PIN 20 BTN	AIN PIN 14 POT
VCA ENV MODE LED DOUT 42	VCA AFTERTOUCH AIN PIN 15 POT
VCA GATE MODE LED DOUT 43	
VCA MODE ENV + DYNAMICS LED DOUT 44	
VCA MODE GATE + DYNAMICS LED DOUT 45	

MIDI IN	MIDI OUT
LED MBHP LTC	LED MBHP LTC
NOTE LED DOUT 46	NOTE LED DOUT 49
CC LED DOUT 47	CC LED DOUT 50
SYSEX LED DOUT 48	SYSEX LED DOUT 51

TRANSMIT
Bulk Dump MIDI.. DIN PIN 9 BTN

SOUND BANK 0-127
JU 64 x MEMORY JU 64 x PRESET
DIN PIN 4+5 ENC