

MATRIX MODULATION

SOURCES

00 DELETE MODULATION
01 ENVELOPE 1
02 ENVELOPE 2
03 ENVELOPE 3
04 LFO 1
05 LFO 2
06 VIBRATO
07 RAMP 1
08 RAMP 2
09 KEYBOARD
10 PORTAMENTO
11 TRACKING GENERATOR
12 KEYBOARD GATE
13 VELOCITY
14 RELEASE VELOCITY
15 PRESSURE
16 PEDAL 1
17 PEDAL 2
18 LEVER 1
19 LEVER 2
20 LEVER 3 = LEVER 2 REVERSE

DESTINATIONS

00 DELETE MODULATION	17 ENV 1 AMPLITUDE
01 DCO 1 FREQUENCY	18 ENV 2 DELAY
02 DCO 1 PULSE WIDTH	19 ENV 2 ATTACK
03 DCO 1 WAVE SHAPE	20 ENV 2 DECAY
04 DCO 2 FREQUENCY	21 ENV 2 RELEASE
05 DCO 2 PULSE WIDTH	22 ENV 2 AMPLITUDE
06 DCO 2 WAVE SHAPE	23 ENV 3 DELAY
07 DCO 1 - DCO 2 MIX	24 ENV 3 ATTACK
08 VCF FM BY DCO 1	25 ENV 3 DECAY
09 VCF FREQUENCY	26 ENV 3 RELEASE
10 VCF RESONANCE	27 ENV 3 AMPLITUDE
11 VCA 1 VOLUME	28 LFO 1 SPEED
12 VCA 2 VOLUME	29 LFO 1 AMPLITUDE
13 ENV 1 DELAY	30 LFO 2 SPEED
14 ENV 1 ATTACK	31 LFO 2 AMPLITUDE
15 ENV 1 DECAY	32 PORTAMENTO RATE
16 ENV 1 RELEASE	

MASTER EDIT

MIDI

00 BASIC CHANNEL	13 SPILL OVER
01 OMNI MODE	14 ACTIVE SENSE
02 CONTROLLERS	15 PATCH MAP
03 PATCH CHANGES	16 PATCH MAP EDIT
04 SYSTEM EXCLUSIVE	
05 LOCAL CONTROL	
06 PEDAL 1 SELECT	
07 PEDAL 2 SELECT	
08 LEVER 2 SELECT	
09 LEVER 3 SELECT	
10 SEND PATCH	
11 SEND ALL	
12 MIDI ECHO	

CASSETTE

20 STORE ALL
21 CHECK ALL
22 LOAD ALL
23 SELECTIVE LOAD

VIBRATO

30 SPEED
31 WAVEFORM
32 AMPLITUDE
33 SPEED MOD SOURCE
34 SPEED MOD AMOUNT
35 AMP MOD SOURCE
36 AMP MOD AMOUNT

MISC.

50 EDIT RECALL
51 PATCH INITIALIZE
52 CALIBRATE
53 DISPLAY BRIGHTNESS
54 SOFTWARE VERSION
55 MASTER TUNE
56 STEREO OUTPUT
57 SWITCH QUICK

SPLIT EDIT

0 LEFT UPPER LIMIT	4 RIGHT TRANSPOSE
1 LEFT TRANSPOSE	5 RIGHT MIDI OUTPUT
2 LEFT MIDI OUTPUT	6 LEFT-RIGHT BALANCE
3 RIGHT LOWER LIMIT	7 VOICE/ZONE SELECT

PATCH EDIT

DCO 1

00 FREQUENCY
01 FREQ MOD BY LFO 1
02 SYNC
03 PULSE WIDTH
04 PW MOD BY LFO 2
05 WAVE SHAPE
06 WAVE SELECT
07 LEVERS
08 KEYBOARD/PORTAMENTO
09 KEY CLICK

DCO 2

10 FREQUENCY
11 FREQ MOD BY LFO 1
12 DETUNE
13 PULSE WIDTH
14 PW MOD BY LFO 2
15 WAVE SHAPE
16 WAVE SELECT
17 LEVERS
18 KEYBOARD/PORTAMENTO
19 KEY CLICK

VCF/VCA

20 BALANCE
21 FREQUENCY
22 FREQ MOD BY ENV 1
23 FREQ MOD BY PRESSURE
24 RESONANCE
25 LEVERS
26 KEYBOARD/PORTAMENTO
27 VCA 1 VOLUME
28 VCA 1 MOD BY VELOCITY
29 VCA 2 MOD BY ENV 2

FM/TRACK

30 VCF FM AMOUNT
31 FM MOD BY ENV 3
32 FM MOD BY PRESSURE
33 TRACK INPUT
34 TRACK POINT 1
35 TRACK POINT 2
36 TRACK POINT 3
37 TRACK POINT 4
38 TRACK POINT 5

RAMP/PORTAMENTO

40 RAMP 1 RATE
41 RAMP 1 TRIGGER
42 RAMP 2 RATE
43 RAMP 2 TRIGGER
44 PORTAMENTO RATE
45 PORT MOD BY VELOCITY
46 PORTAMENTO MODE
47 LEGATO PORTAMENTO
48 KEYBOARD MODE

ENV 1

50 DELAY
51 ATTACK
52 DECAY
53 SUSTAIN
54 RELEASE
55 AMPLITUDE
56 AMP MOD BY VELOCITY
57 TRIGGER MODE
58 ENVELOPE MODE
59 LFO 1 TRIGGER

ENV 2

60 DELAY
61 ATTACK
62 DECAY
63 SUSTAIN
64 RELEASE
65 AMPLITUDE
66 AMP MOD BY VELOCITY
67 TRIGGER MODE
68 ENVELOPE MODE
69 LFO 1 TRIGGER

ENV 3

70 DELAY
71 ATTACK
72 DECAY
73 SUSTAIN
74 RELEASE
75 AMPLITUDE
76 AMP MOD BY VELOCITY
77 TRIGGER MODE
78 ENVELOPE MODE
79 LFO 1 TRIGGER

LFO 1

80 SPEED
81 SPEED MOD BY PRESSURE
82 WAVEFORM
83 RETRIGGER POINT
84 AMPLITUDE
85 AMP MOD BY RAMP 1
86 TRIGGER MODE
87 LAG
88 SAMPLE INPUT

LFO 2

90 SPEED
91 SPEED MOD BY KEYBOARD
92 WAVEFORM
93 RETRIGGER POINT
94 AMPLITUDE
95 AMP MOD BY RAMP 2
96 TRIGGER MODE
97 LAG
98 SAMPLE INPUT