

Function	CC #	Global	Parm Range	Value	Addr Offset
DCO Bender Amt	03		0-99	0-99	08/88
Porta Speed	05		0-99	0-99	09/89
DCO1 Saw On/Off	14		0-99	0,1	3C/BC.4
DCO1 Pulse Wave	15		0-99	0,1,2	3C/BC.7-5
DCO1 PW/PWM	16		0-99	0-99	0C/8C
DCO1 Sub Osc On/Off	17		0-99	0,1	40/C0.1
DCO2 Coarse	18		0-99	0-99	22/A2
DCO2 Fine	19		0-99	0-99	23/A3
Pitch Range	20		0-99	0,1,2	3C/BC.3-1
DCO2 On/Off	21		0-99	0,1	3F/BF.6
Brass On/Off	22		0-99	0,1	40/C0.0
Noise	23		0-99	0-99	0F/8F
VCF EG Amt	24		0-99	0-99	14/94
VCF KCV Amt	25		0-99	0-99	12/92
VCF LFO Amt	26		0-99	0-99	13/93
VCF Bender Amt	27		0-99	0-99	21/A1
VCF EG Attack	28		0-99	0-99	18/98
VCF EG Decay	29		0-99	0-99	19/99
VCF EG Sustain	30		0-99	0-99	1A/9A
VCF EG Release	31		0-99	0-99	1B/9B
VCA EG Amt	32		0-99	0-99	15/95
VCA EG Decay	33		0-99	0-99	1D/9D
VCA EG Sustain	34		0-99	0-99	1E/9E
LFO Speed	35		0-99	0-99	0E/8E
LFO Delay	36		0-99	0-99	0D/8D
LFO Waveform	37		0-99	0,1,2	3F/BF.2-0
LFO Reverse	38		0-99	0,1	3F/BF.3
LFO Trig	39		0-99	0,1	3F/BF.4
LFO On/Off	40		0-99	0,1	3C/BC.0
Auto Bend	41		0-99	0-99	0A/8A
HPF	42		0-99	0-99	17/97
Ensem On/Off	43		0-99	0,1	3F.5
Glissando On/Off (upr)	44		0-99	0,1	3B.6
Damper Pedal	--	64	0-127		
Porta On/Off (upr only)	--	65	0-99	0,1	3B.5
VCF Resonance	71		0-99	0-99	11/91
VCA EG Release	72		0-99	0-99	1F/9F
VCA EG Attack	73		0-99	0-99	1C/9C
VCF Cutoff	74		0-99	0-99	10/90
DCO LFO amt	77		0-99	0-99	0B/8B
VCA LFO amt	92		0-99	0-99	16/96

Use selected MIDI channel for Upper notes (all notes in Dual mode) and parms Channel + 1 for lower notes and parms. Note: MIDI notes in dual mode only play upper voice. This is how the Kawai firmware works and not related to my changes. All parameters need range of 0-99 for MIDI control. Even on/off ones. On/Off Parms: 0-49 off, 50-127 on Three-valued parms: 0-33 first value, 34-67 second, 68-127 third All CC values > 99 are set to 99. Addr Offset shows locations in SX-240 RAM where this value is stored for upper and lower programs. It is not used for CC control, just shown for completeness.