



CIRCUIT RHYTHM

Programmer's Reference Guide

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Circuit Rhythm MIDI Parameters

Macro Knobs

These are identical to the parameters in the 'Sampler Parts' section.

Section	Parameter	CC/NRPN	Control No.	Range	Default Value	Notes
Macro Knobs						
	1. Tune	CC	21	0 – 127	64	Send on appropriate channel 1-8
	2. Start	CC	22	0 – 127	0	Send on appropriate channel 1-8
	3. Length	CC	23	0 – 127	127	Send on appropriate channel 1-8
	4. Slope	CC	24	0 – 127	64	Send on appropriate channel 1-8
	5. Distortion	CC	25	0 – 127	0	Send on appropriate channel 1-8
	6. HP Filter	CC	26	0 – 127	0	Send on appropriate channel 1-8
	7. LP Filter	CC	27	0 – 127	127	Send on appropriate channel 1-8
	8. Resonance	CC	28	0 – 127	0	Send on appropriate channel 1-8

Sampler Parts 1-8

Section	Parameter	CC / NRPN	Control No.	Range	Default Value	Notes
Voice						
	SampleChoice	CC	8	0 – 127	0	
	PlaybackMode	CC	12	0 – 2	0	
	Reverse	CC	14	0 – 1	0	
	Choke	CC	15	0 – 1	0	
	Slice	CC	16	0 – 1	0	
	Number of Slices	CC	17	1 – 16	16	
Sampler						
	Pitch	CC	21	4 – 124 (-60 – 60)	0	Controllable/Automatable using Macro Knobs
	StartCoarse	CC	22	0 – 127	0	Controllable/Automatable using Macro Knobs
	LengthCoarse	CC	23	0 – 127	127	Controllable/Automatable using Macro Knobs
	Slope	CC	24	0 – 127 (-64 – 63)	0	Controllable/Automatable using Macro Knobs
	Distortion	CC	25	0 – 127	0	Controllable/Automatable using Macro Knobs
	HPF	CC	26	0 – 127	0	Controllable/Automatable using Macro Knobs
	LPF	CC	27	0 – 127	127	Controllable/Automatable using Macro Knobs
	Resonance	CC	28	0 – 127	0	Controllable/Automatable using Macro Knobs
	StartFine	CC	86	0 – 127	0	Controllable/Automatable using Macro Knobs
	LengthFine	CC	87	0 – 127	127	Controllable/Automatable using Macro Knobs
Mixer						
	Level	CC	29	0 – 127	100	
	Pan	CC	30	-64 – 63	0	
	ReverbSend	CC	31	0 – 127	0	
	DelaySend	CC	32	0 – 127	0	
Dipper						
	Source	NRPN	1:0	0 – 7	0	
	Attack	NRPN	1:1	0 – 127	0	
	Hold	NRPN	1:2	0 – 127	0	
	Decay	NRPN	1:3	0 – 127	0	
	Depth	NRPN	1:4	0 – 127	0	

Effects

Section	Parameter	CC / NRPN	Control No.	Range	Default Value	Notes
Reverb						
	Type	NRPN	1:18	0 – 5	2	
	Decay	NRPN	1:19	0 – 127	64	
	Damping	NRPN	1:20	0 – 127	64	
Delay						
	Time	NRPN	1:6	0 – 127	64	
	TimeSync	NRPN	1:7	0 – 35	20	
	Feedback	NRPN	1:8	0 – 127	64	
	Width	NRPN	1:9	0 – 127	127	
	LRRatio	NRPN	1:10	0 – 12	4	
	SlewRate	NRPN	1:11	0 – 127	5	
Effects						
	Bypass	NRPN	1:21	0 – 1	0	
BeatRepeat						
	OnOff	CC	39	0 – 1	0	
	Rate	CC	40	0 – 10	5	
	DryWet	CC	41	0 – 127	0	
Reverser						
	OnOff	CC	42	0 – 1	0	
	Rate	CC	43	0 – 3	2	
Gator						
	OnOff	CC	44	0 – 1	0	
	Rate	CC	45	0 – 11	5	
Autofilter						
	OnOff	CC	46	0 – 1	0	
	FilterType	CC	47	0 – 3	0	
	Frequency	CC	48	0 – 127	80	
	LFOamount	CC	49	0 – 127	40	
	LFOshape	CC	50	0 – 2	0	
	LFOrate	CC	51	0 – 13	8	
	Resonance	CC	52	0 – 127	63	
DigitalLofi						
	OnOff	CC	53	0 – 1	0	
	Bits	CC	54	0 – 127	30	
	SampleRate	CC	55	0 – 127	30	
Phaser						
	OnOff	CC	56	0 – 1	0	
	Rate	CC	57	0 – 13	7	
	Depth	CC	58	0 – 127	64	
	Feedback	CC	59	0 – 127	0	
	Centre	CC	64	0 – 127	0	
Vinyl						
	OnOff	CC	60	0 – 1	0	
	Filter	CC	61	0 – 127	64	
	Wobble	CC	62	0 – 127	64	
	Crackle	CC	63	0 – 127	64	
	Hiss	CC	65	0 – 127	64	

Global Control Data

Section	Parameter	CC / NRPN	Control No.	Range	Default Value	Notes
LP HP Filter						
	Frequency	CC	79	0 – 127 (-64 – 63)	64	Affects Master filter
	Resonance	CC	71	0 - 127	30	Affects Master filter
Compressor						
						Controls for main output compressor
	On/Off	NRPN	1:22	0, 1	1	
	Attack	NRPN	1:23	0, 127	0	
	Release	NRPN	1:24	0, 127	0	
	EnvelopeFollow	NRPN	1:25	0, 127	0	
	SoftClip	NRPN	1:26	0, 1	1	
Master						
	Volume					NOT SUPPORTED
Click						
	On/Off			0, 1	0	NOT SUPPORTED
	Volume			0, 127	100	NOT SUPPORTED
	Rate			0, 3	1	NOT SUPPORTED
	Choice			0, 127	0	NOT SUPPORTED
Audio Input						
	GainPadding	NRPN	1:27	0, 1	0	
	Routing	NRPN	1:28	0, 1	0	
	Threshold	NRPN	1:29	0, 1	1	
	Monitor	NRPN	1:30	0, 1	1	
	Level	CC	90	0, 127	100	

Patch and Project Select

MIDI Channel	Parameter	Value	Notes
16	PGM	0 – 63	select project (instant)
16	PGM	64 – 127	select project (queued)

*PGM = Program Change
 Note, for drum patch selection see Drum Control table

Supported Realtime Messages

Message
start
stop
continue
timing clock

Supported System Common Messages

Message
song position pointer
song select

Triggering Sample Tracks

Table of notes used to trigger sample tracks from a single MIDI channel.

Sample Track Notes	on global channel		
Part	Note Name	Note Number	Channel
1	C1	36	16
2	D1	38	16
3	E1	40	16
4	F1	41	16
5	G1	43	16
6	A1	45	16
7	B1	47	16
8	C2	48	16

FX Parameters

FX Select	FX Name	Param1	Param2	Param3	Param4	Param5	Param6
0	Beat Repeat	Rate	wet/dry	x	x	x	x
1	Reverse	Rate	x	x	x	x	x
2	Gator	Rate	x	x	x	x	x
3	Autofilter	Rate	FiltType	Freq	Shape	Amount	Resonance
4	Digital_Lofi	Bits	Sample	x	x	x	x
5	Phaser	Rate	Depth	FB	x	x	x
6	Vinyl	Filter	Wobble	Crackle	Hiss	x	x

Setup View

You can enter setup view by holding down Shift and Pressing save. For a full description of setup view please see the full Circuit Rhythm user guide on the Novation Downloads page.

