Plinky <-> Cirklon

Instrument Definition Manual

Two modes: Synth Mode & Sampler Mode

With full CC mapping, setup guide, and resources

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Contents

1 Quick Start

Load and play

1. Copy `Plinky-SynthMode.cki` and/or `Plinky-SamplerMode.cki` to the Cirklon SD card `defs/` folder.
2. On Cirklon: `SETUP -> INSTRUMENTS -> select empty slot -> LOAD -> defs/ -> choose file`.
3. On the **TRACK** page: set **Instrument** to the loaded Plinky def, and set the correct **Port/Channel**.
4. Press play and record notes/CCs. You should see named Plinky parameters in CC lanes.

Suggested live knobs

- **Synth Mode:** Knob A = Filter Cutoff/Res (CC 74/71), Knob B = Reverb/Delay Send (CC 91/94).
- **Sampler Mode:** Knob A = Scrub (CC 15) or Speed (CC 17), Knob B = Timestretch (CC 18) or Grain Size (CC 16).

Mode choice

- **Synth Mode** (Xpose/FTS ON): musical transposition and scale locking for melodies/arps.
- **Sampler Mode** (Xpose/FTS OFF): precise note-to-slice behavior for granular/scrubbing.

2 Further Resources

For more information, updates, and community resources:

- **Plinky official documentation:**
  https://plinkysynth.com/docs/
- **Making Sound Machines**
  https://makingsoundmachines.com/
- **Crey Emporium**
  https://crey.space/
- **Denki Oto:**
  https://denki-oto.com/
- **LPZW:**
  https://lpzwmodules.de/

- **Plinky Community Discord:**
  https://plinkysynth.com/community/

Support

If you encounter errors, missing parameters, or issues with these Cirklon instrument definitions, please DM **zifor** on Discord for assistance.

3 Introduction

This manual defines two complete Cirklon instruments for Plinky, each with a full set of named controls (CCs) and performance recommendations:

- **Synth Mode** — Designed for melodic sequencing and performance. Cirklon's *Transpose (Xpose)* and *Force-to-Scale (FTS)* features are enabled so you can shift patterns and keep them in key while performing. Includes full access to all Plinky parameters.
- **Sampler Mode** — Designed for precise sample and slice control. *Transpose* and *FTS* are disabled so Cirklon sends exact note values (no remapping), ideal when timing/pitch mapping of slices must remain exact. Also includes full access to all Plinky parameters.

Quick Comparison

Feature	Synth Mode	Sampler Mode
Transpose (Xpose)	✓ Enabled	× Disabled
Force-to-Scale (FTS)	✓ Enabled	× Disabled
Polyphonic Aftertouch Capture	✓	✓
Default Knobs (suggested)	Filter/Resonance + Reverb/Delay	Scrub + Speed/Timestretch
Typical Use	Melodies, arps, in-key jams	Scrubbing, slices, granular

4 Loading Instrument Definitions into Cirklon

1. **Copy files to SD card**
   Place your instrument definition files (.CKI) into the `defs/` folder on the Cirklon SD card.
   If you are building the defs manually on the Cirklon itself, save them directly via the *Card SAVE* menu.

2. **Load the definition**
   On Cirklon, press **SETUP -> INSTRUMENTS**.
   Choose an empty slot, then select **LOAD**.
   Navigate to the `defs/` directory and pick the desired Plinky file:

- `Plinky - Synth Mode.cki` (for melodic use)
- `Plinky - Sampler Mode.cki` (for sample/slice use)

3. **Assign to a track**
   Go to the **TRACK** page.
   Under the **Instrument** field, select your newly loaded Plinky instrument.
   The track now displays named CCs and routes notes/automation to Plinky.

4. **Verify communication**
   Move Knob A/B or enter a CC automation lane — Cirklon should display the Plinky parameter names you defined.
   Play notes from the track — Plinky should respond.
   If needed, check MIDI port/channel match (Cirklon port assignment must match Plinky's input).

5. **Save for reuse**
   Once the instrument is set up, save it to card:
   MENU -> **Card SAVE -> Save Instruments (.CKI)**.
   You can now reuse this definition in any project without retyping.

5 Instrument Definitions & Usage Guide

5.1 What these files are

The following listings are complete Cirklon instrument definition files (.CKI) for Plinky in two modes:

- **Plinky - Synth Mode** (Transpose and Force-to-Scale enabled)
- **Plinky - Sampler Mode** (Transpose and Force-to-Scale disabled)

Both include every Plinky CC control plus position/pressure outputs.

5.2 How to install on Cirklon

1. **Create files on your computer:**
   (a) Copy each listing below into a plain text file and save as: `Plinky-SynthMode.cki` and `Plinky-SamplerMode.cki`.
   (b) Ensure the files are ASCII text (no smart quotes or unusual dashes). The listings here already use ASCII-safe characters.

2. **Copy to SD card:** Place the files in the Cirklon SD card's `defs/` folder.

3. **Load on Cirklon:** `SETUP -> INSTRUMENTS -> select empty slot -> LOAD -> defs/ -> choose file`.

4. **Assign to track:** On the **TRACK** page, set the Instrument field to your loaded Plinky definition; set the correct **Port/Channel** to match Plinky's MIDI input.

5. **Verify:** Move Knob A/B or open a CC lane—Cirklon should show the named Plinky parameters. Play notes to verify audio and parameter response.

6. **Save for reuse:** `Card SAVE -> Save Instruments (.CKI)` so you can recall the defs in future projects.

5.3 Performance tips

- **Synth Mode:** Transpose and Force-to-Scale keep patterns musical while jamming. Great for melodies and arps. Try assigning Knob A to Filter Cutoff/Res (CC 74/71) and Knob B to Reverb/Delay send (CC 91/94).
- **Sampler Mode:** No transpose or scale forcing—notes are exact. Ideal for scrubbing (CC 15), speed (CC 17), timestretch (CC 18), grain (CC 16). Use precise note/pitch entry for slices.
- **Capture expressiveness:** Enable Poly AT and record it, plus capture finger position (CC 32–39) and pressure (CC 40–47) if you route them back into Cirklon modulation.

Plinky - Synth Mode (.CKI)

```
[INSTRUMENT]
name = Plinky - Synth Mode
port = 1
channel = 1
flags = poly_at

[CC]
13  = Osc Shape
4   = Osc Distortion
9   = Osc Pitch
14  = Osc Interval
2   = Noise Level
5   = Glide
71  = Resonance

101 = Arp Latch
102 = Arp OnOff
103 = Arp Order
104 = Arp ClockDiv
105 = Arp Chance
106 = Arp EuclidLen
107 = Arp Octaves

108 = Seq Order
109 = Seq ClockDiv
110 = Seq Chance
111 = Seq EuclidLen
11  = Seq GateLen
83  = Seq Pattern
85  = Seq Steps

3   = Env1 Sensitivity
73  = Env1 Attack
74  = Env1 Sustain
75  = Env1 Decay
72  = Env1 Release

19  = Env2 Level
20  = Env2 Attack
21  = Env2 Decay
22  = Env2 Sustain
23  = Env2 Release

94  = Delay Send
12  = Delay Time
112 = Delay PingPong
```

```
113 = Delay Wobble
95  = Delay Feedback

24  = LFO A Rate
25  = LFO A Depth
26  = LFO A Offset
27  = LFO B Rate
28  = LFO B Depth
29  = LFO B Offset

76  = LFO X Rate
77  = LFO X Depth
78  = LFO X Offset
79  = LFO Y Rate
80  = LFO Y Depth
81  = LFO Y Offset

91  = Reverb Send
92  = Reverb Time
93  = Reverb Shimmer
114 = Reverb Wobble

15  = Sample Scrub
16  = Sample GrainSize
17  = Sample PlaySpeed
18  = Sample Timestretch
82  = Sample Select

116 = Jitter Position
117 = Jitter Grain
118 = Jitter Rate

89  = ExtIn Volume
90  = ExtIn WetDry
31  = HPF Amount
7   = Synth Level
8   = FX WetDry

[OUTPUT]
32 = Pos Col1
33 = Pos Col2
34 = Pos Col3
35 = Pos Col4
36 = Pos Col5
37 = Pos Col6
38 = Pos Col7
39 = Pos Col8
40 = Press Col1
```

```
41 = Press Col2
42 = Press Col3
43 = Press Col4
44 = Press Col5
45 = Press Col6
46 = Press Col7
47 = Press Col8

[PROGRAMS]
0 = Patch 1
1 = Patch 2
2 = Patch 3
127 = Patch 128
```

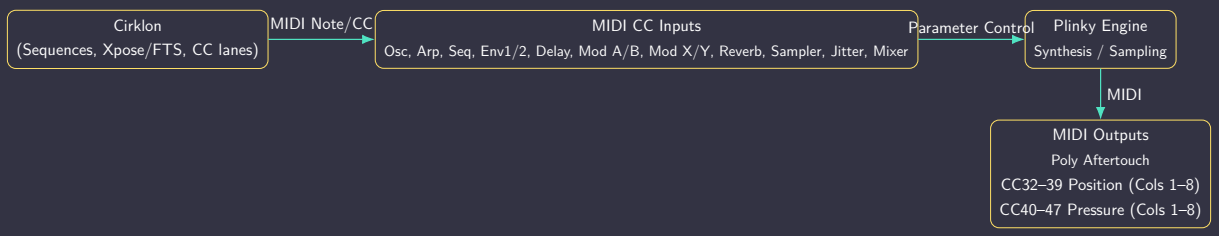
Plinky - Sampler Mode (.CKI)

```
[INSTRUMENT]
name = Plinky - Sampler Mode
port = 1
channel = 1
flags = poly_at,no_xpose,no_fts

[CC]
13  = Osc Shape
4   = Osc Distortion
9   = Osc Pitch
14  = Osc Interval
2   = Noise Level
5   = Glide
71  = Resonance

101 = Arp Latch
102 = Arp OnOff
103 = Arp Order
104 = Arp ClockDiv
105 = Arp Chance
106 = Arp EuclidLen
107 = Arp Octaves

108 = Seq Order
109 = Seq ClockDiv
110 = Seq Chance
111 = Seq EuclidLen
11  = Seq GateLen
83  = Seq Pattern
85  = Seq Steps

3   = Env1 Sensitivity
73  = Env1 Attack
74  = Env1 Sustain
75  = Env1 Decay
72  = Env1 Release

19  = Env2 Level
20  = Env2 Attack
21  = Env2 Decay
22  = Env2 Sustain
23  = Env2 Release

94  = Delay Send
12  = Delay Time
112 = Delay PingPong
```

```
113 = Delay Wobble
95  = Delay Feedback

24  = LFO A Rate
25  = LFO A Depth
26  = LFO A Offset
27  = LFO B Rate
28  = LFO B Depth
29  = LFO B Offset

76  = LFO X Rate
77  = LFO X Depth
78  = LFO X Offset
79  = LFO Y Rate
80  = LFO Y Depth
81  = LFO Y Offset

91  = Reverb Send
92  = Reverb Time
93  = Reverb Shimmer
114 = Reverb Wobble

15  = Sample Scrub
16  = Sample GrainSize
17  = Sample PlaySpeed
18  = Sample Timestretch
82  = Sample Select

116 = Jitter Position
117 = Jitter Grain
118 = Jitter Rate

89  = ExtIn Volume
90  = ExtIn WetDry
31  = HPF Amount
7   = Synth Level
8   = FX WetDry

[OUTPUT]
32 = Pos Col1
33 = Pos Col2
34 = Pos Col3
35 = Pos Col4
36 = Pos Col5
37 = Pos Col6
38 = Pos Col7
39 = Pos Col8
40 = Press Col1
```

```
41 = Press Col2
42 = Press Col3
43 = Press Col4
44 = Press Col5
45 = Press Col6
46 = Press Col7
47 = Press Col8

[PROGRAMS]
0 = Patch 1
1 = Patch 2
2 = Patch 3
127 = Patch 128
```

MIDI Flow Diagram



6 Plinky - Synth Mode

6.1 Mode Summary

Transpose (Xpose): Enabled

Force-to-Scale (FTS): Enabled

Polyphonic Aftertouch: Capture/playback recommended

Suggested Knobs A/B: A: Cutoff/Resonance (CC74/71) B: Reverb Send (CC91) or Delay Send (CC94)

Track Mixer: CC7 (Synth Level), optional CC8 (Wet/Dry)

6.2 Complete CC Map (Inputs)

Oscillator

CC	Name
13	Shape
4	Distortion
9	Pitch
14	Interval
2	Noise level
5	Glide
71	Resonance

Arpeggiator

CC	Name
101	Latch
102	On/Off
103	Order
104	Clock division
105	Chance
106	Euclid length
107	Octaves

Sequencer

CC	Name
108	Order
109	Clock division
110	Chance
111	Euclid length
11	Gate length
83	Pattern
85	Steps

Envelope 1 (Filter Env)

CC	Name
3	Sensitivity (LPF amount)
73	Attack
74	Sustain
75	Decay
72	Release

Envelope 2 (Amp Env)

CC	Name
19	Level
20	Attack
21	Decay
22	Sustain
23	Release

FX - Delay

CC	Name
94	Delay send amount
12	Delay time
112	Delay ping-pong
113	Delay wobble
95	Delay feedback amount

Modulation - A / B

CC	Name
24	A Rate
25	A Depth
26	A Offset
27	B Rate
28	B Depth
29	B Offset

Modulation - X / Y

CC	Name
76	X Rate
77	X Depth
78	X Offset
79	Y Rate
80	Y Depth
81	Y Offset

FX - Reverb

CC	Name
91	Reverb send amount
92	Reverb time
93	Reverb shimmer
114	Reverb wobble

Sampler

CC	Name
15	Scrub
16	Grain size
17	Play speed
18	Timestretch
82	Sample

Sampler - Jitter

CC	Name
116	Jitter position
117	Jitter grain size
118	Jitter rate

Mixer

CC	Name
89	External In Volume
90	External In Wet/Dry
31	HPF amount
7	Synth Level
8	Wet/Dry (global FX mix)

6.3 Plinky -> Cirklon (Outputs to capture)

- Polyphonic Aftertouch
- CC 32–39: Finger position (columns 1–8)
- CC 40–47: Pressure (columns 1–8)

7 Plinky - Sampler Mode

7.1 Mode Summary

Transpose (Xpose): Disabled

Force-to-Scale (FTS): Disabled

Polyphonic Aftertouch: Capture/playback recommended

Suggested Knobs A/B: A: Scrub (CC15) or Play Speed (CC17) B: Timestretch (CC18) or Grain Size (CC16)

Track Mixer: CC7 (Synth Level), optional CC8 (Wet/Dry)

7.2 Complete CC Map (Inputs)

Oscillator

CC	Name
13	Shape
4	Distortion
9	Pitch
14	Interval
2	Noise level
5	Glide
71	Resonance

Arpeggiator

CC	Name
101	Latch
102	On/Off
103	Order
104	Clock division
105	Chance
106	Euclid length
107	Octaves

Sequencer

CC	Name
108	Order
109	Clock division
110	Chance
111	Euclid length
11	Gate length
83	Pattern
85	Steps

Envelope 1 (Filter Env)

CC	Name
3	Sensitivity (LPF amount)
73	Attack
74	Sustain
75	Decay
72	Release

Envelope 2 (Amp Env)

CC	Name
19	Level
20	Attack
21	Decay
22	Sustain
23	Release

FX - Delay

CC	Name
94	Delay send amount
12	Delay time
112	Delay ping-pong
113	Delay wobble
95	Delay feedback amount

Modulation - A / B

CC	Name
24	A Rate
25	A Depth
26	A Offset
27	B Rate
28	B Depth
29	B Offset

Modulation - X / Y

CC	Name
76	X Rate
77	X Depth
78	X Offset
79	Y Rate
80	Y Depth
81	Y Offset

FX - Reverb

CC	Name
91	Reverb send amount
92	Reverb time
93	Reverb shimmer
114	Reverb wobble

Sampler

CC	Name
15	Scrub
16	Grain size
17	Play speed
18	Timestretch
82	Sample

Sampler - Jitter

CC	Name
116	Jitter position
117	Jitter grain size
118	Jitter rate

Mixer

CC	Name
89	External In Volume
90	External In Wet/Dry
31	HPF amount
7	Synth Level
8	Wet/Dry (global FX mix)

7.3 Plinky -> Cirklon (Outputs to capture)

- Polyphonic Aftertouch
- CC 32–39: Finger position (columns 1–8)
- CC 40–47: Pressure (columns 1–8)

8 Performance Cheat Sheet

Most tweakable CCs

CC	Purpose
74	Filter cutoff (pair with 71 for resonance sweeps)
71	Filter resonance
94	Delay send (pair with 12 time, 95 feedback)
12	Delay time
95	Delay feedback
91	Reverb send (pair with 92 time, 93 shimmer)
92	Reverb time
93	Reverb shimmer
15	Sample scrub (playhead)
17	Sample play speed
18	Timestretch amount
16	Grain size
7	Synth level (track volume)

Expressiveness

- Record **Polyphonic Aftertouch** for pressure dynamics.
- Use position/pressure outputs (CC 32–39 / 40–47) for modulation tricks.

9 Firmware Notes

These definitions target current Plinky firmware (2025). If a later firmware changes CC mappings, consult:

- https://plinkysynth.com/docs/
- https://plinkysynth.com/community/

Update your Cirklon definition if you notice parameter mismatches.

10 Appendix

10.1 Quick Reference — All CCs

CC	Name
2	Noise level
3	Sensitivity (LPF amount)
4	Distortion
5	Glide
7	Synth Level
8	Wet/Dry (global FX mix)
9	Pitch
11	Gate length
12	Delay time
13	Shape
14	Interval
15	Scrub
16	Grain size
17	Play speed
18	Timestretch
19	Level (Env2)
20	Attack (Env2)
21	Decay (Env2)
22	Sustain (Env2)
23	Release (Env2)
24	A Rate
25	A Depth
26	A Offset
27	B Rate
28	B Depth

CC	Name
29	B Offset
31	HPF amount
71	Resonance
72	Release (Env1)
73	Attack (Env1)
74	Sustain (Env1)
75	Decay (Env1)
76	X Rate
77	X Depth
78	X Offset
79	Y Rate
80	Y Depth
81	Y Offset
82	Sample
83	Pattern
85	Steps
89	External In Volume
90	External In Wet/Dry
91	Reverb send amount
92	Reverb time
93	Reverb shimmer
94	Delay send amount
95	Delay feedback amount
101	Arp Latch
102	Arp On/Off
103	Arp Order
104	Arp Clock division
105	Arp Chance
106	Arp Euclid length
107	Arp Octaves
108	Seq Order
109	Seq Clock division
110	Seq Chance
111	Seq Euclid length
112	Delay ping-pong
113	Delay wobble
114	Reverb wobble
116	Jitter position
117	Jitter grain size
118	Jitter rate

10.2 Program List Template (optional)

Program #	Name
0	Patch 1
1	Patch 2
2	Patch 3
127	Patch 128

11 Credits

Made with love from the Plinky community. Thanks to mmalex, Making Sound Machines, Crey Emporium, Denki Oto, and LPZW.
For issues or suggestions regarding these definitions, please DM **zifor** on Discord.