bos legio

_travelers guide
_for herding space cattle

2	3	6
switches · 3 ways	cv inputs	hp

[pitch] press [pitch] hold › then noon = 12 o'clock tags = the panel drawing

cowbell voice · fm, additive and x0x models · two fm inputs · chain it with the other drums

← back to the legio starsystem

= hold

01 what it is — bo_01

cowbell	three bell models with full cv
fm in	its audio input is fm for the bell, not a mix
drums	part of the chainable legio kit
in L R	fm · audio in · L feeds R if alone
out L R	stereo out, up to 16 V peak to peak
platform	a legio firmware · other firmwares

02 pitch — bo_02 · enc

[enc] turn	cowbell pitch
[enc] tap	mute · unmute
enc jack	pitch jack · –2 to +5 V

10 first flight — bo_10 · the manual's tutorial

1. triggers into trig
2. out to the mixer
3. s1 x0x · 2 [tone] at noon
4. tune enc
5. try fm and add

03 decay · tone — bo_03 · knobs 1 + 2

1 [decay]	how long the bell rings
2 [tone]	timbre

04 mode · tilt — bo_04 · s1 · s2 · top → bottom

s1 fm	a bovine take on the debel bell
s1 add	additive bell, after chowning
s1 x0x	808-style · tone at noon, pitch ~500 Hz
s2 tilt	tilt filter · brightness

__fig.01 : signal path — in → out



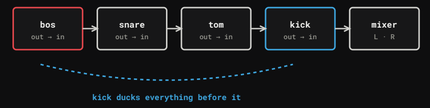
as the manual describes it

05 jacks — bo_05 · trig · cv · audio

trig hit	trigger · rising edge near +1.6 V
in fm L R	audio fm · L feeds R if alone
out L R	up to 16 V peak to peak
cv	pitch –2 to +5 V · decay + tone 0 – 5 V

__fig.02 : the drum chain — out → mix in

any order · no mixer needed



08 patch ideas — bo_08 · the manual

the 808 one — x0x
tone at noon, fundamental near 500 Hz

chain first — any
put bos at the head of a drum chain · its input is fm, not a mix

more cowbell — fm
audio into fm L/R for harder timbres

__fig.03 : the panel — numbers match the legend



enc	pitch · cowbell pitch
1	decay · how long the bell rings
2	tone · timbre
s1	mode · fm · add · x0x
s2	tilt · up · mid · down
trig	hit · trigger
cv	pitch · 1 · 2 · pitch –2…+5 V · others …
in	fm L / R · L feeds R if alone
out	out L / R · stereo out

09 specs — bo_09

size	6 hp · 1.5 in deep
power	140 mA +12 V · 22 mA –12 V
cv in	0 – 5 V · pitch –2 to +5 V
trig	rising edge near +1.6 V
boot LEDs	red / white