reso legio

_travelers guide
_for plucking the solar strings

2	3	6
switches · 3 ways	cv inputs	hp

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

karplus-strong string into a bandpass body resonator · three bodies · chorus

← back to the legio starsystem

= hold

01 what it is

re_01

pluck	a karplus-strong string
body	a parallel bandpass bank around it
interact	decay and brightness both change timbre and length
in L R	excite · 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

re_02 · enc

[enc] turn	fine tune
[enc] press + turn	coarse tune
enc jack	pitch jack · –2 to +5 V

10 first flight

re_10 · the manual's tutorial

1. a pitch sequence into enc
2. triggers into trig
3. adjust 1 and 2 together
4. try each body
5. unpatch · audio into excite

03 decay · brightness

re_03 · knobs 1 + 2

1 [decay]	string decay time
2 [brightness]	body brightness

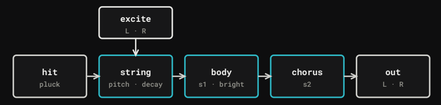
04 body · chorus

re_04 · s1 · s2 · top → bottom

s1 body	banjo · violin · guitar
s2 chorus	II lots · I some · 0 none

__fig.01 : signal path

in → out



as the manual describes it

05 jacks

re_05 · trig · cv · audio

trig hit	plucks the string · near +1.6 V
in excite L R	audio into the body · L feeds R
out L R	up to 16 V peak to peak
cv	pitch –2 to +5 V · decay + brightness 0 – 5 V

__fig.02 : ring out

decay knob



08 patch ideas

re_08 · the manual

picked — any
pitch + triggers · the pluck also drives the body

resonant body — any
dynamic audio into excite

wide — chorus lots
stereo shimmer on plucks

__fig.03 : the panel

numbers match the legend



- enc **pitch** · fine tune
- 1 **decay** · string decay time
- 2 **brightness** · body brightness
- s1 **body** · banjo · violin · guitar
- s2 **chorus** · II · I · 0
- trig **hit** · plucks the string
- cv **pitch** · **1** · **2** · pitch –2…+5 V · others …
- in **excite L / R** · L feeds R if alone
- out **out L / R** · stereo out

09 specs

re_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	cyan / cyan

design homage to the house of x / powers of x data pages — designed by tom muller with jonathan hickman · panel drawing after the noise engineering legio overlay template
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