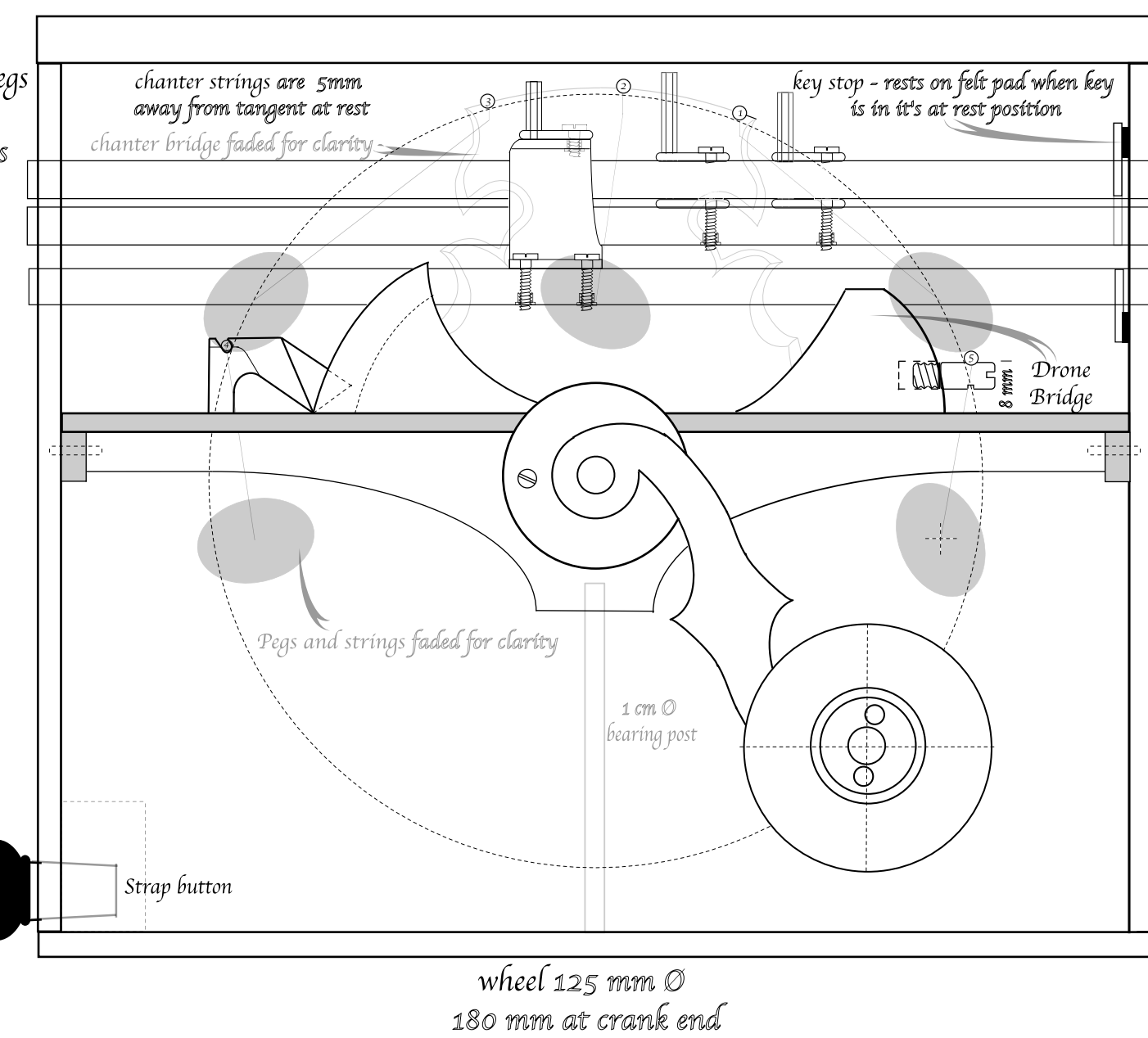
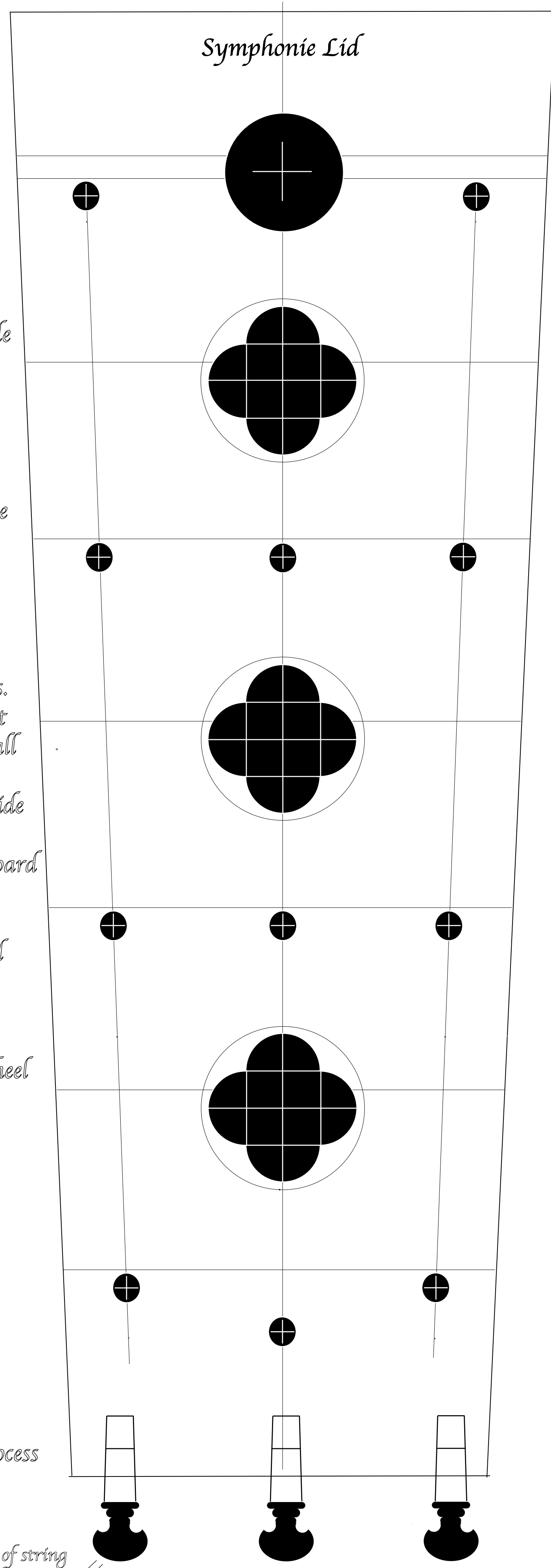




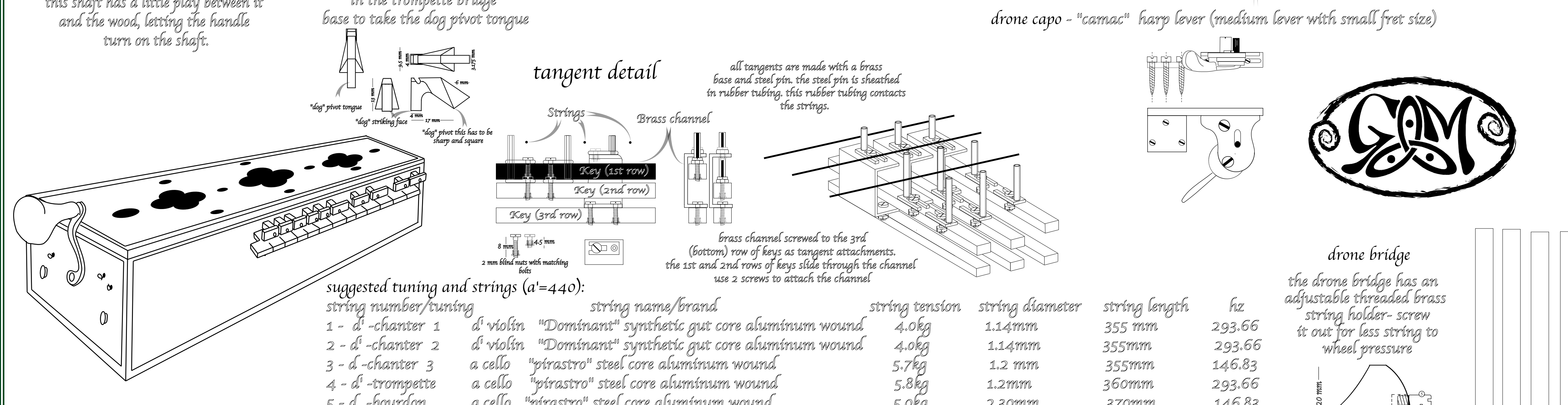
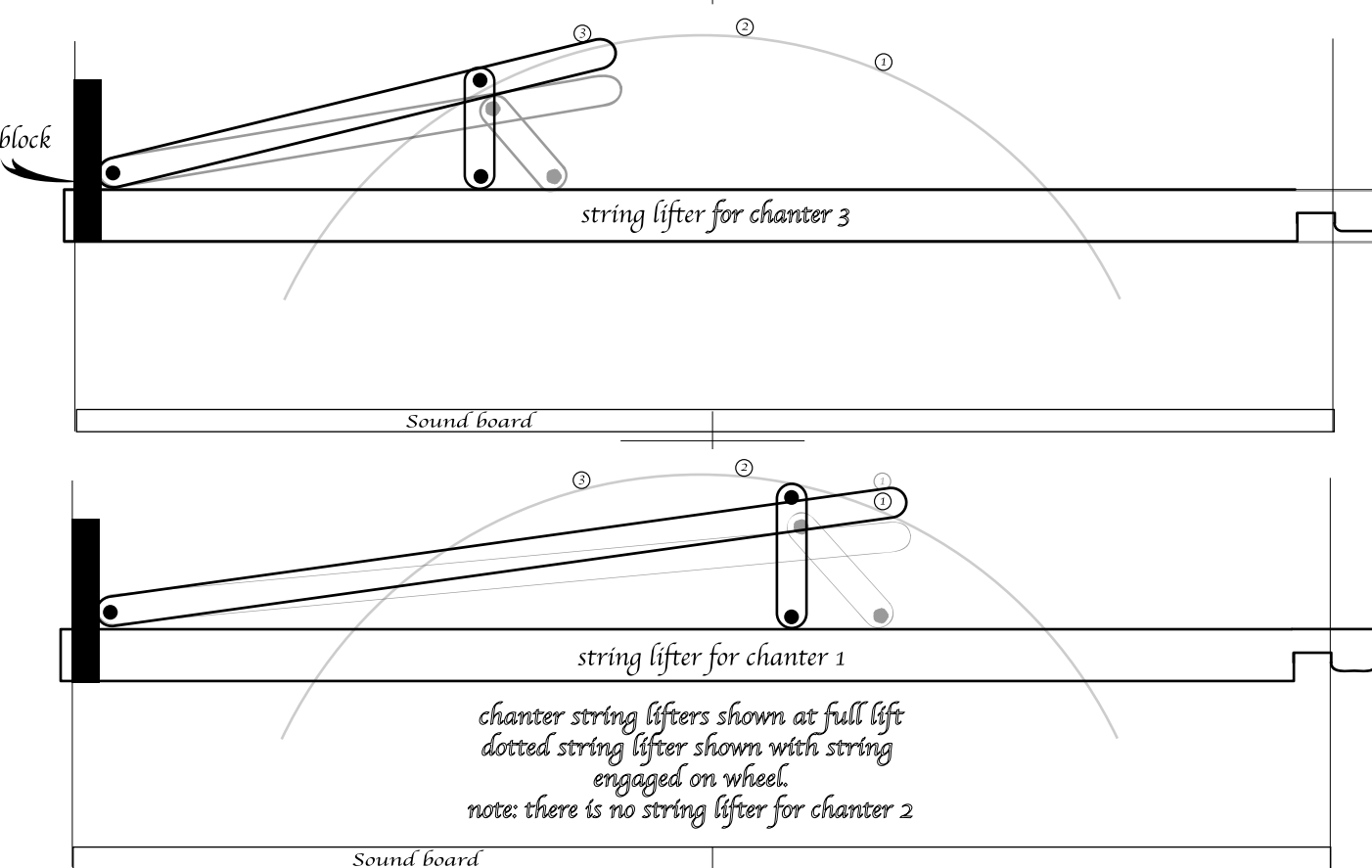
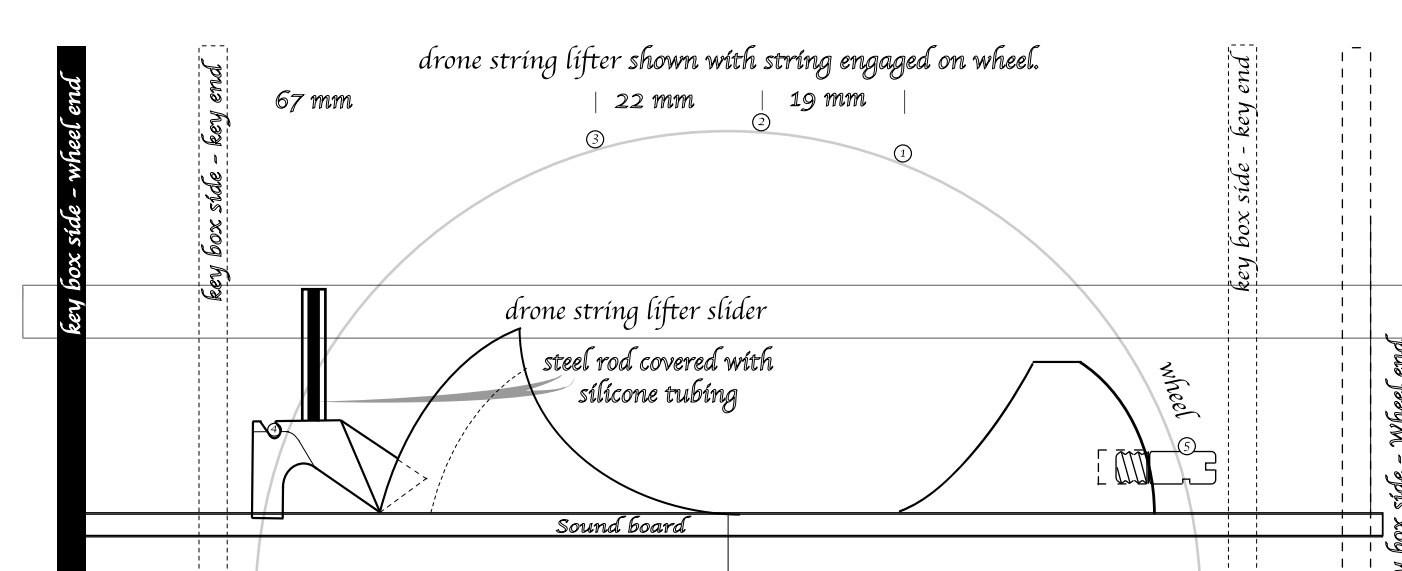
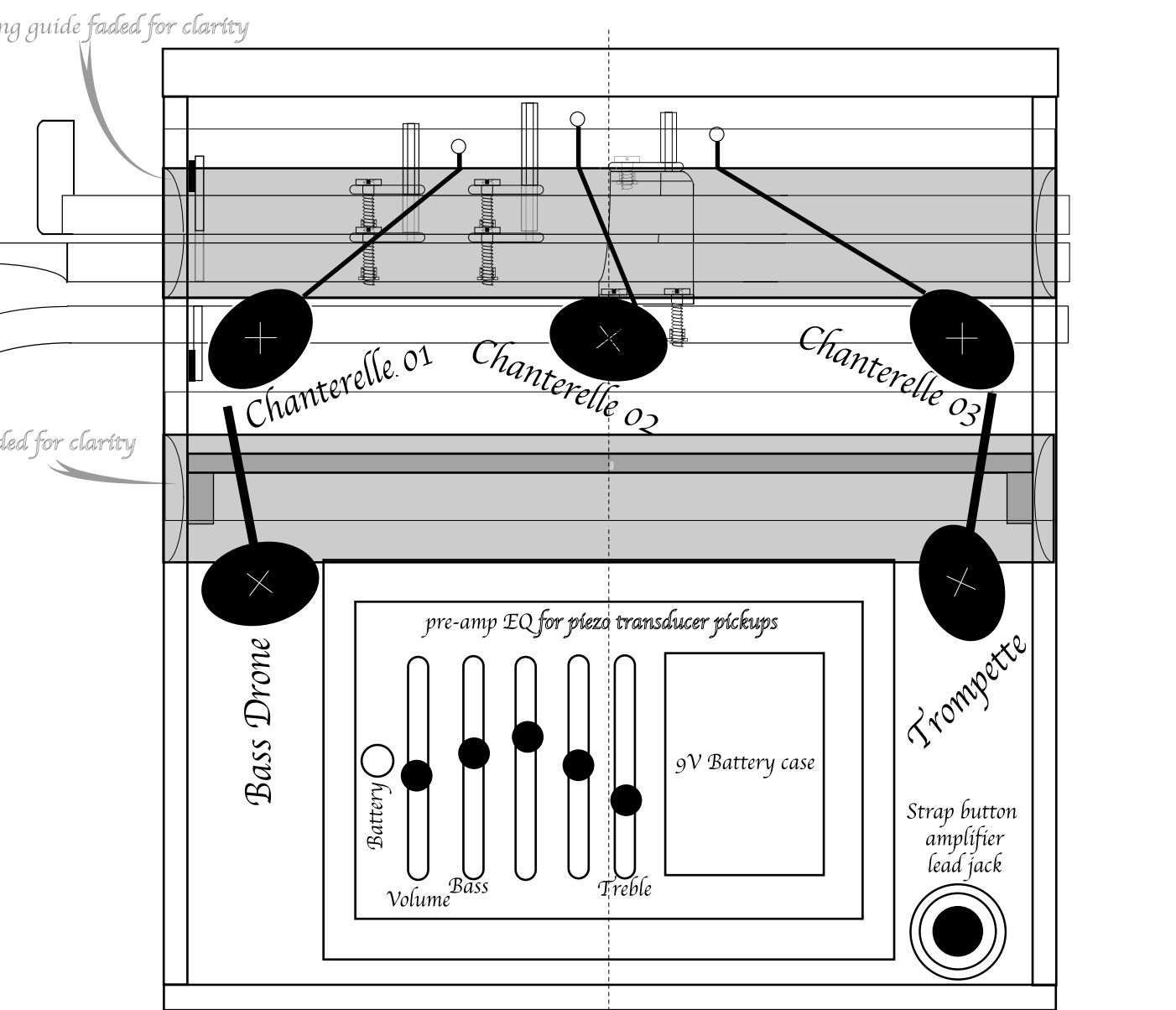
Construction

- 1- cut the sides and keys out by hand and/or laser
- 2- make end block to take EQ, and "pegheads" pegs
- 3- make bearing braces and bearing end block
- 4- make the soundboard and cut sound hole
- 5- put box together with bearing braces, sit soundboard in place to size the box
- 6- install soundboard bracing around the inside edge of the box
- 7- make wheel, steel shaft and brass bearings on lathe, true up the wheel in place (without soundboard)
use a carpenter scraper to shave the high points of the wheel
- 8- install the soundboard, glue to bearing and soundboard braces
- 9- install the wheel and make drone bridges.
use temporary strings for bridge placement
- 10- make chanter bridge and embed one small piezo in it
- 11- glue the other 2 piezo pickups to underside of the soundboard
- 12- glue capo support blocks to under soundboard
- 13- make the box back and glue in place
- 14- make the lid box to size.
purfling can now be installed in the box lid and back
- 15- glue on the chanter bridge using a temporary string
- 16- make handle and crank and install on wheel shaft
- 17- install drone strings and get sounding.
get the dog working
- 18- assemble and install drone (harp levers) capo
- 19- make and fit string lifters
- 20- make all tangents
- 21- fit keys so they slide well
- 22- install tangents on keys
use a temporary string as guide
- 23- glue key pads onto accidental keys
- 24- install chanter strings and start setup process



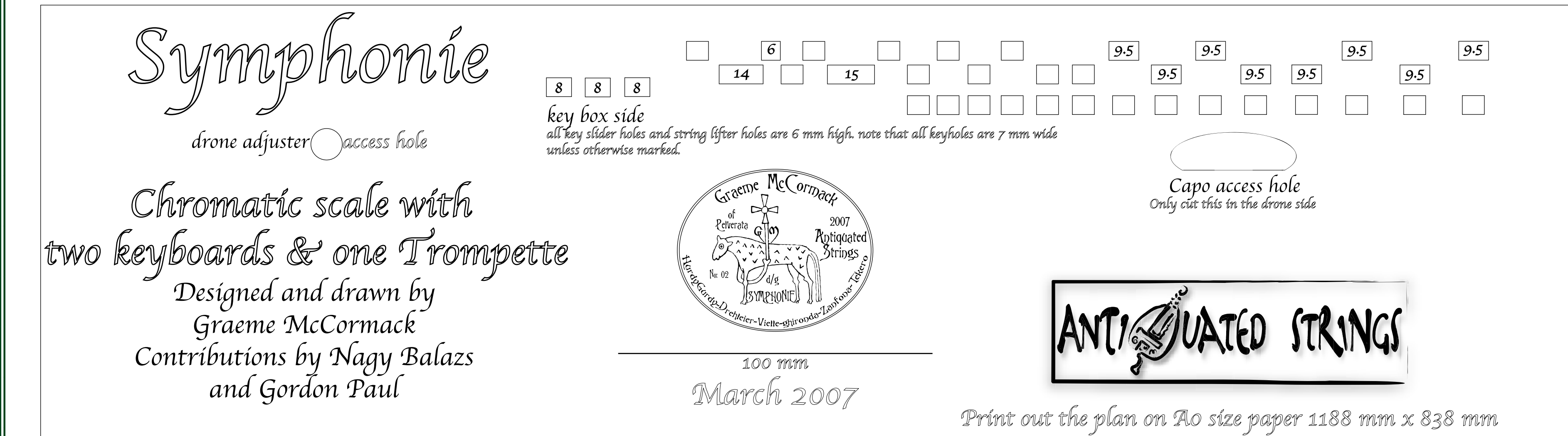
1st row of keys (accidental
notes main scale)

all keys 4 mm thick
tas oak unless marked



string number/tuning		string name/brand	string tension	string diameter	string length	hz
1 - d'-chanter 1	d' violin	"Dominant" synthetic gut core aluminum wound	4.0kg	1.14mm	355 mm	293.66
2 - d'-chanter 2	d' violin	"Dominant" synthetic gut core aluminum wound	4.0kg	1.14mm	355mm	293.66
3 - d'-chanter 3	a cello	"pirastro" steel core aluminum wound	5.7kg	1.2 mm	355mm	146.83
4 - d'-trumpette	a cello	"pirastro" steel core aluminum wound	5.8kg	1.2mm	360mm	293.66
5 - d'-boudard	g cello	"pirastro" steel core aluminum wound	5.0kg	2.00mm	370mm	146.83

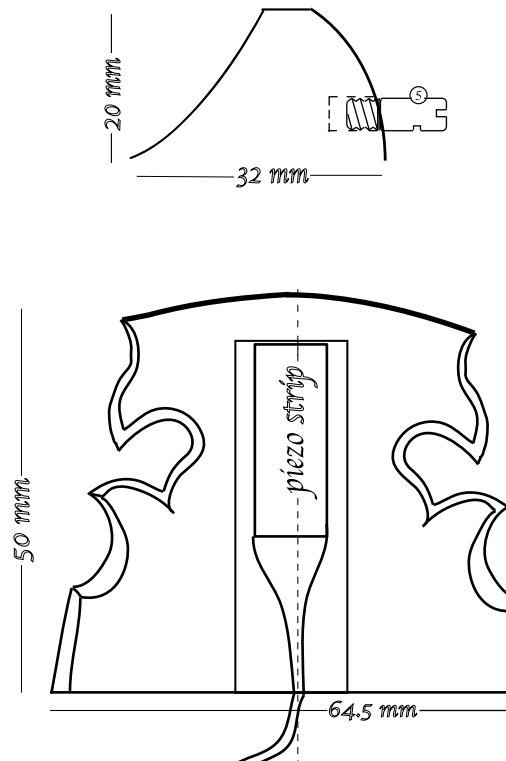
*Chromatic scale with
two keyboards & one Trompette*
Designed and drawn by
Graeme McCormack
Contributions by Nagy Balazs
and Gordon Paul



Print out the plan on A0 size paper 1188 mm x 838 mm



drone bridge
the drone bridge has an
adjustable threaded brass
string holder- screw
it out for less string to
wheel pressure



chanter bridge
with piezo strip
embedded in a channel
on core

