

PLANS & PRINTABLE TEMPLATES



WWW.CELLOTAR.COM

YOUR PURCHASE OF THESE PLANS CONSTITUTES A SINGLE, NON-TRANSFERRABLE ROYALTY-FREE LICENSE TO BUILD THIS PLAN FOR COMMERCIAL OR NON-COMMERCIAL PURPOSES AS YOU SEE FIT

NO WARRANTY IS EXPRESSED OR IMPLIED, AND NEITHER
JESSE BOND NOR ANY OTHER AGENT OF CELLOTAR.COM
OR DIY MUSIC ARE LIABLE FOR ANY LOSS OR HARM, WHETHER
BODILY, FINANCIAL OR OTHERWISE, RESULTING FROM FOLLOWING
THESE PLANS OR DIRECTIONS IN THE ASSOCIATED VIDEOS. DON'T BE DUMB.



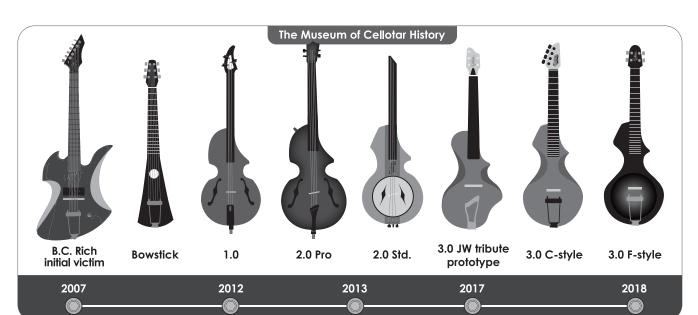
The Cellotar is a guitar-tuned, fretted cello/guitar hybrid bowed instrument that I created as a cost-effective solution for guitar players to be able to record and perform real bowed strings sounds with minimal time investment. The inspiration for it harkens back to 2006 when I ran across the TogaMan GuitarViol online and became obsessed with the idea of having a bowed guitar.

In early 2007, one of those music/movie stores was going out of business in our local mall, and had B.C. Rich Bronze single-pickup mockingbird starter guitar packs on sale for \$99. Fortunately for me, and unfortunately for that Mockingbird, I bought one of those

packs that day and took it home to do terrible things to it.

Not too much later, I had removed the frets, tried to sand the fingerboard into a curve, reinstalled the first 5-7 frets on the barely curved fingerboard, installed a jazz guitar tailpiece, and fashioned a curved bridge. The thing barely played, and sounded even worse (as it was "amplified" by its flat single humbucker pickup, which is totally wrong in every way for a bowed string instrument).

Fast-forward to 2018, and as you can see in the diagram below, it's been a long road--but we're finally here. Let's get building.





	Part	Where to find	Cost
1.	Child's 1/4 (19-20") scale electric guitar neck	buy whole guitar off craigslist, fb mktplc etc.	~ \$20
2.	strap buttons & neck plate / screws for both ^	(comes with the guitar you get above—hopefully)	FREE
3.	16.5" + long 4" diam. schedule 40 PVC pipe	local or big box hardware store	~ \$5
4.	beginner 1/2 scale cello bow	ebay or amazon	~ \$20
5.	cello rosin (sticky stuff that makes bow work)	ebay (or like \$6 on amazon)	~ \$1
6.	stratocaster-style output jack plate + screws	ebay (or like \$7 on amazon)	~ \$2
7.	jazz guitar SHORT trapeze tailpiece + screws	ebay / amazon (or sub. hardware store gate latch)	~ \$7
8.	3/4 or 4/4 cello bridge	ebay (or like \$8 on amazon)	~ \$2.50
9.	string retainer bar with screws	ebay (or like \$5 on amazon)	~ \$1
10.	SEALED back replacement tuners	ebay or amazon	~ \$7
11.	Merano 1/4 cello string set (or other cheap set)	ebay (or like \$10 on amazon)	~ \$5
12.	1/2" x 3.5" x 2' oak craft board	Lowe's / Home Depot	~ \$5
13.	1" x 11.5" x 4' pine tread	Lowe's / Home Depot	~ \$10.50
14.	2' x 4' x 1/4" luan plywood sheet	Lowe's / Home Depot	~ \$7.50
15.	10-15 pieces piezo discs with wires attached	ebay (or like \$6 on amazon)	~ \$1.50
16.	couple dozen #4 3/4" zinc wood screws	Lowe's / Home Depot	~ \$3
17.	baggie of 100 black 4" zip ties	Lowe's / Home Depot	~ \$4
	I		I . /

Optional upgrades for extra scratch:

p-bass style cavity cover

18.

pre-soldered dual-head piezo pickup system (instead of part #16 and soldering)	jjb-electronics.com PPS-200–basic, sounds great jjb-electronics.com VTP-200, with volume/tone	~ \$23 _{or} ~ \$40
rust-o-leum Walmart lacquer (1) color & (1) clear for making body a solid color or wood stain	Walmart (or testors one-coat model lacquers for more \$)	~ \$10
electric guitar pickup with adjustable pole pieces (so you can adjust height per string to even out volume)	amazon, ebay *note: you wil need to use d'addario Chromes flatwound guitar strings instead of cello strings for this to work, and it will only sound good for pluck/strum	varies

ebay (or like \$3.50 on amazon)

~ \$2.50

Total parts cost: ~\$107



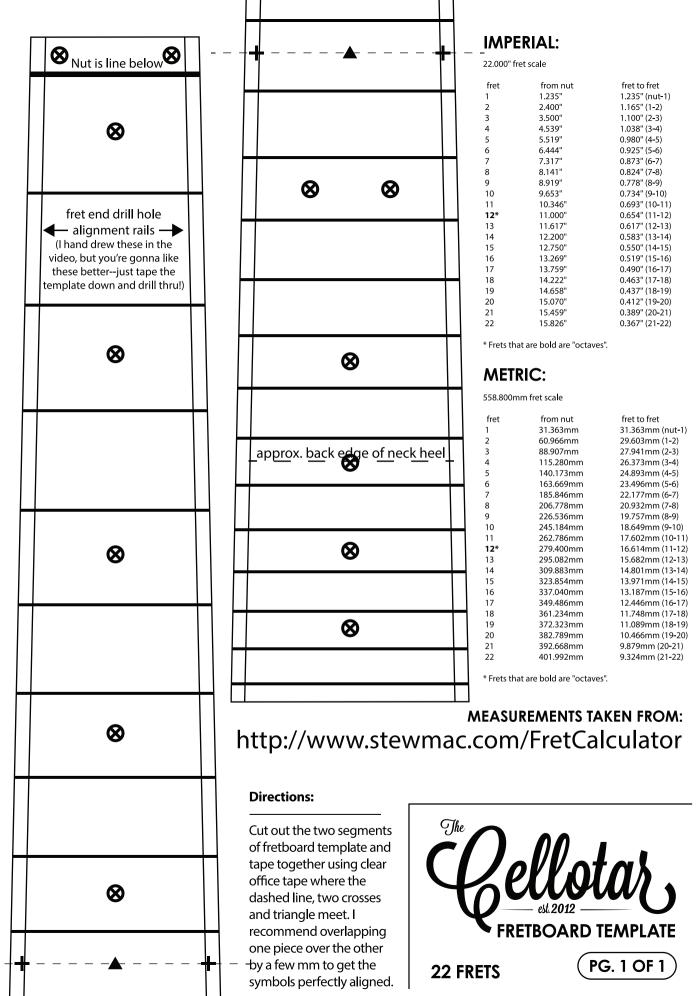
So here's the thing with tools... If you don't already have a huge collection of them, someone you know does--and you can probably just get away with **borrowing what you need** from that person for this project. Your dad, grandpa, neighbor, friend--someone you know has all this stuff and more. Go talk to them, then you don't have to pay any of the costs on this page. YW.

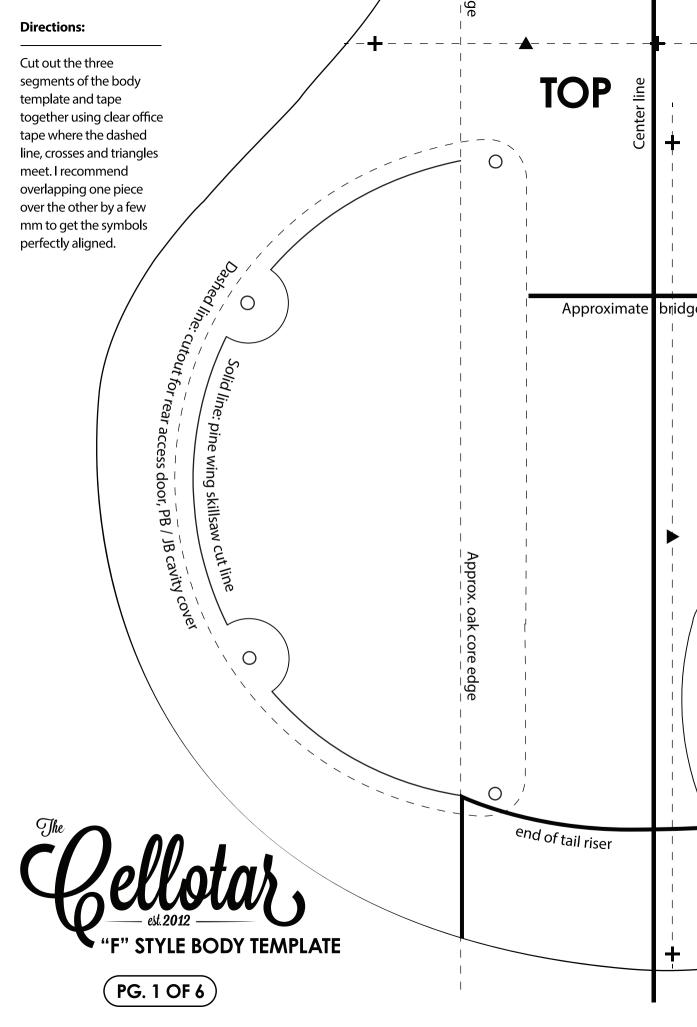
Tool	Where to find	Cost
asic jigsaw with wood blades, whatever brand	walmart, lowe's, home depot	~ \$20
palm / mouse / detail sander and various grits of fitted sanding sheets (velcro back)	amazon, or \$20 at walmart/lowe's/home depotor sand by hand with sandpaper if you hate life	~ \$15
mall and medium philips head screwdrivers	they're everywhere just look around	FREE
pasic electric drill and various wood/metal bits	amazon, walmart, lowe's, home depot	~ \$20
some higher-grit "by-hand" sandpaper	amazon, walmart, lowe's, home depot	~ \$5
freaking safety glasses (don't ruin your eyes)	amazon, walmart, lowe's, home depot	~ \$10-15
ruler, yardstick, scissors, office tape, pencils,	sharpee markers you have these somewhere	FREE
duct tape and a set of files for the nut/bridge	amazon, walmart, lowe's, home depot	~ \$15
soldering iron or gun & solder (unless you buy one of the jjbelectronics pre-soldered systems, in which case you don't need one)	amazon, walmart, lowe's, home depot	~ \$10-15
wood glue, wood filler, stainable / sandable	amazon, walmart, lowe's, home depot	~ \$10
rust-o-leum automotive primer, black lacquer	walmart, gurl!	~ \$10
paper towels, computer printer & ink/paper	oh c'mon	FREE

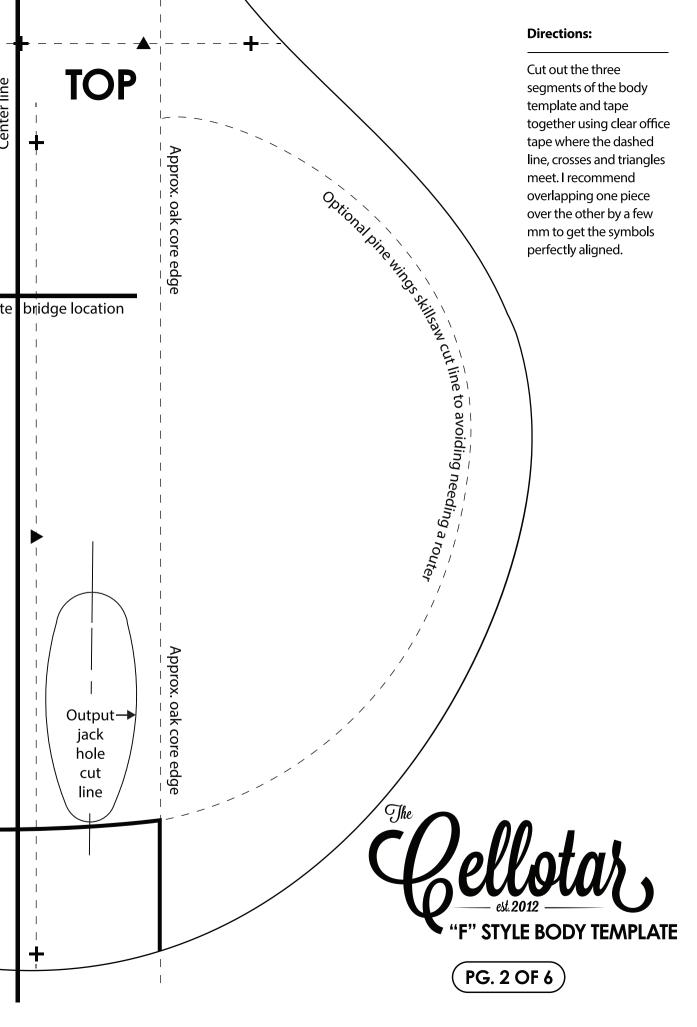
Total if you fail at the borrowing thing: ~\$120

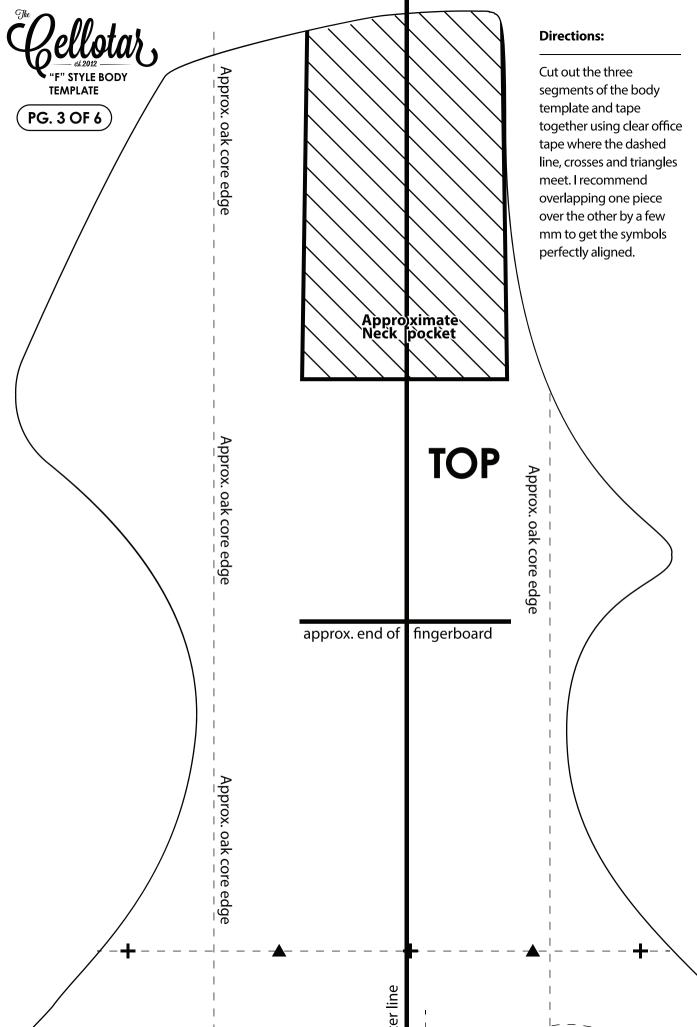
Optional tools for more awesome:

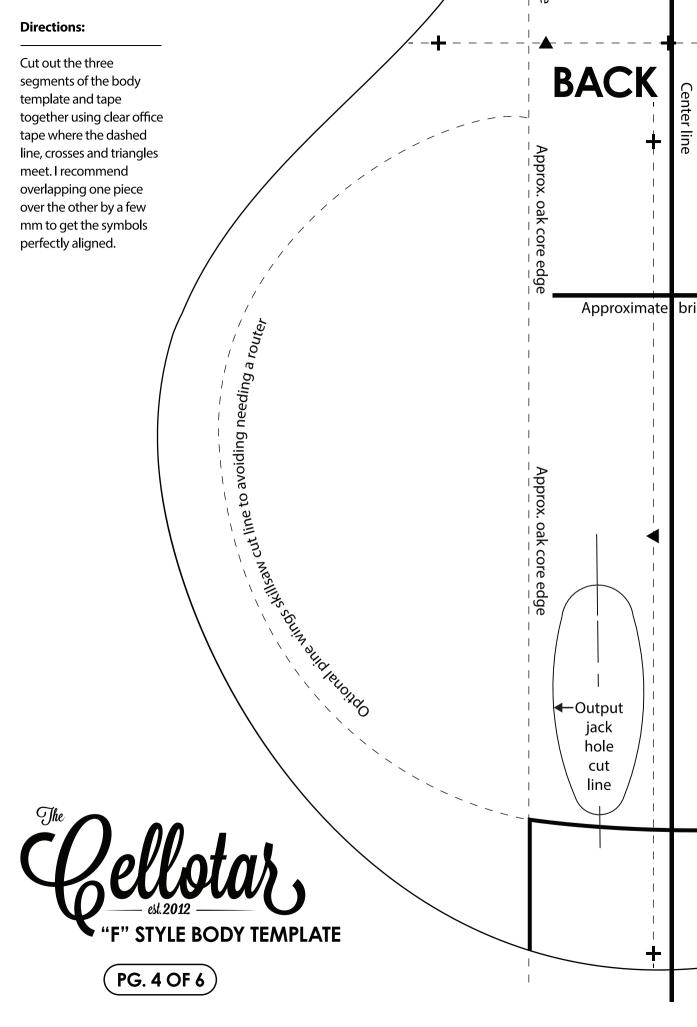
handheld wood router with standard bit	Lowe's, Home Depot, must have nerves of steel	~ \$100
standard angle grinder + carbide cup for carving	amazon, box hw stores, carbide cup from Harbor Freight	~ \$50
bench drill press (instead of a lame hand drill)	seems that all the cool makers use these, um yard sale?	~ \$?
waterslide decal sheets, mod podge, spray adhesive	amazon, ebay, craft stores, mod/spray at walmart	~ \$40

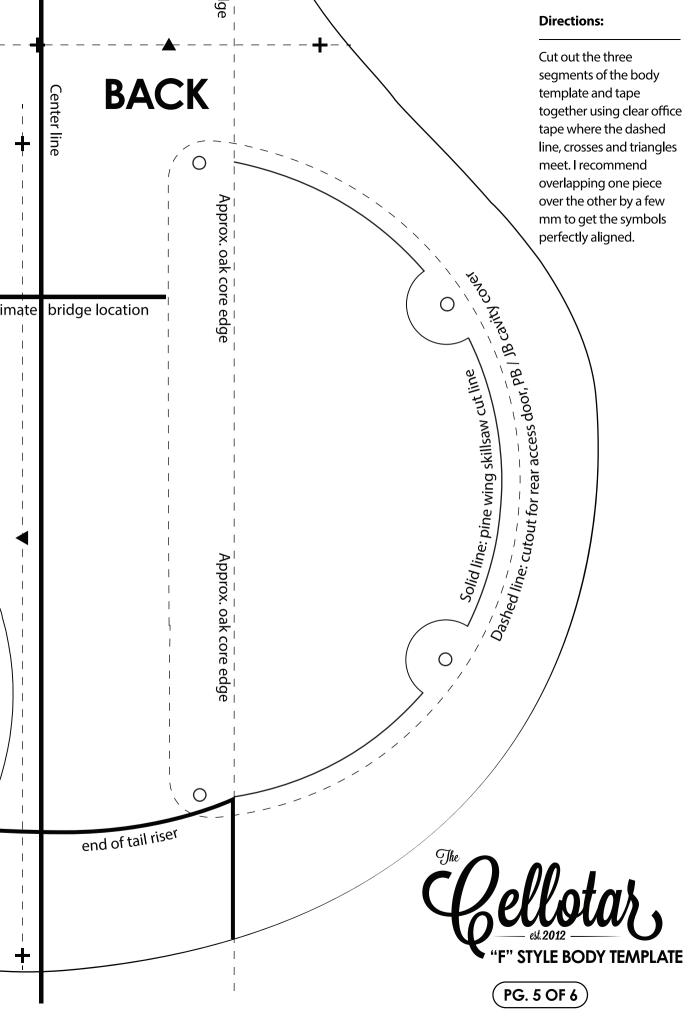


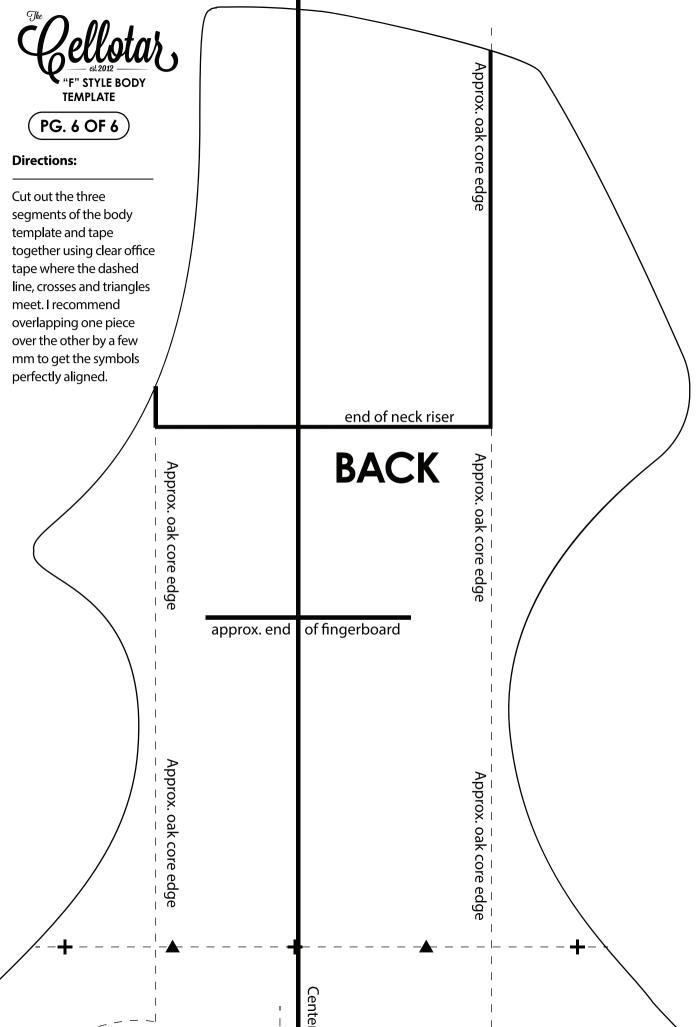












HEADSTOCK LOGOS (NORMAL AND REVERSED)



Plain





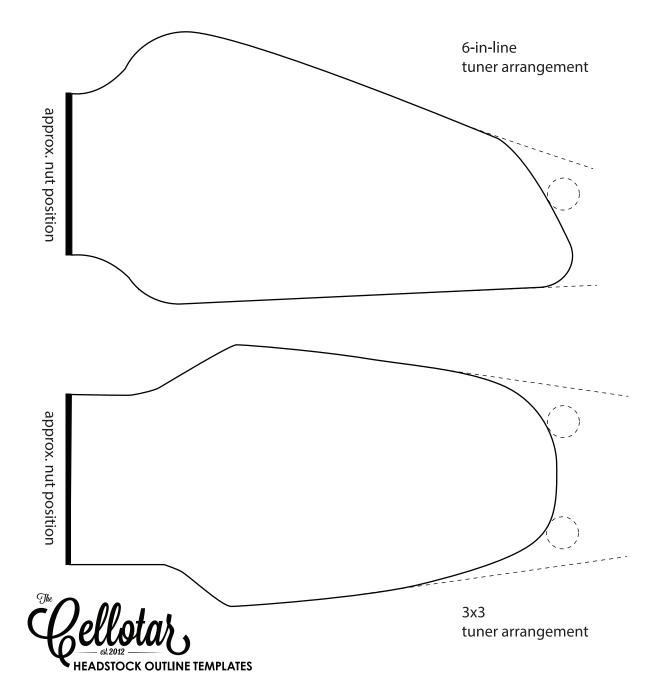
Blob

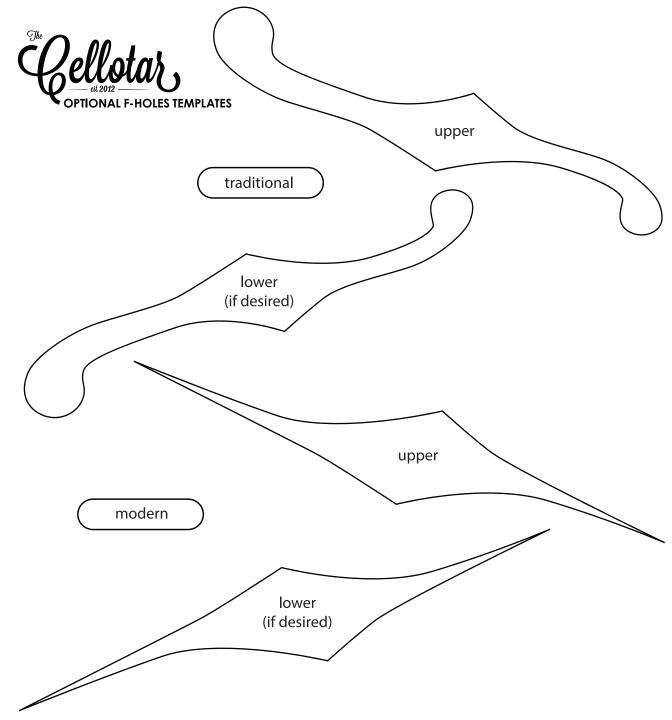




Outlined









VIDEO TUTORIALS FOR HOW TO USE THESE PLANS CAN BE FOUND AT WWW.CELLOTAR.COM

FOR SUPPORT, QUESTIONS,
OR TO REPORT ISSUES WITH THESE
PLANS, EMAIL ME DIRECTLY AT:

JESSEBOND@GMAIL.COM

