

Mojotron's Neck and Neck Pocket Spec Analysys

	Favorite Tele	My Strat	Parker Fly	Parker NiteFly	Ibanez RG520
Width: Nut on Neck side	1.689	1.689	1.7	1.706	1.72
Width: 12th fret	2.041	2.04	2.12	2.1265	2.08
Width:20th Fret	2.185	2.185	2.3175	2.281	2.24
Width: end	2.192	2.19	2.34	2.2955	2.255
Neck Pocket Width	2.1875	2.1875			2.25
Neck Pocket length-upper	3	3			2.75
Neck Pocket length-mid	3	3			3
Neck Pocket length-mid offset from upper					0.78125
Neck Pocket length-lower	3	3			1.5625
Hole spacing: width	1.5	1.5			1.375
Hole spacing: length	2	2			1.875
String Spacing	2.125	2.1875	2.1515	2.174	2.125
(String Spacing) - (end width)	-0.067	-0.0025	-0.1885	-0.1215	-0.13

Design Changes for this build:

1 Move neck pocket in and make 22 fret neck

The 22nd fret is .425" from the 21st fret: Make neck .425" longer for 22nd fret
This also pushes the upper fret access up one fret

2 Fret end space on fretboard:

Looks like (String Spacing) - (end width)
around -.15 to -.12 is what I want: I'll call it roughly ~1/8"
Then, the neck end is (with 2 1/8th string spacing):

$$\begin{array}{r} 2 \frac{1}{8} \\ \frac{1}{8} \\ \hline 2 \frac{1}{4} \end{array}$$

So, I will need a 2 1/4" wide pocket end

Reference

25.5" fret scale		
fret	from nut	fret to fret
1	1.431"	1.431" (nut-1)
2	2.782"	1.351" (1-2)
3	4.057"	1.275" (2-3)
4	5.261"	1.204" (3-4)
5	6.397"	1.136" (4-5)
6	7.469"	1.072" (5-6)
7	8.481"	1.012" (6-7)
8	9.436"	0.955" (7-8)
9	10.338"	0.902" (8-9)
10	11.189"	0.851" (9-10)
11	11.992"	0.803" (10-11)
12	12.750"	0.758" (11-12)
13	13.466"	0.716" (12-13)
14	14.141"	0.675" (13-14)
15	14.779"	0.638" (14-15)
16	15.380"	0.601" (15-16)
17	15.948"	0.568" (16-17)
18	16.484"	0.536" (17-18)
19	16.990"	0.506" (18-19)
20	17.468"	0.478" (19-20)
21	17.919"	0.451" (20-21)
22	18.344"	0.425" (21-22)

