11/7/73
3/7/74

TO: Mr. C. H. Kaman

FROM: Materials & Process Engineering - A. L. Belbruno

SUBJECT: Top Deflection History - Guitar No. 39

	Date	Strings Tight	Strings Loose
#39-0	11/1/73 Westfield finish Bridge, no bracing		.165
#39-1	3/7/74	.059	.061

A. L. Belbruno

ALB/tm

cc: L. Pickett

January 31, 1974

TO: Mr. C. H. Kaman

FROM: Materials & Process Eng. - A. L. Belbruno

SUBJECT: Top Deflection History - Guitar #39

	Date	Deflection (inches/20 lbs) Strings Loose
#39-0	11/1/73* Westfield Finish	.165
#39-1	1/31/74	.060

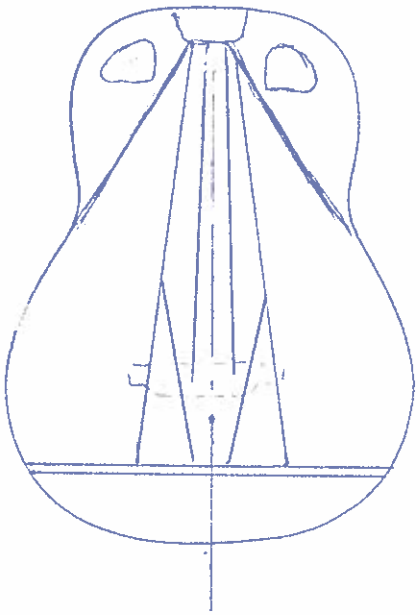
*Reported on 11/7/73.

A. L. Belbruno

A. L. Belbruno

cc: L. Pickett

39-1



STD FANS

$\frac{1}{2}$" x $\frac{1}{4}$

TOP F-4 .098 K = .94
.130

WESTFIELD FINISH

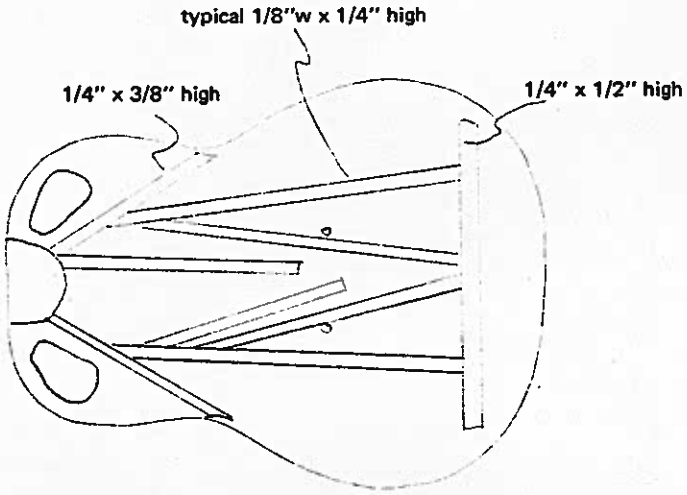
BRIDGE ADDED K = .165

WITH BRACES AS SHOWN K = .060

#39-1 untreated spruce – bloodhound holes (10.7□")

tested 12/05/75 CMcD – patch on

RL	SN	K	FF
.091/.091	.069/.052	.057 tight	



heavy duty rim
heavy, hand laid up, bowl
reinforcing at strap pin
standard round hole fingerboard scarfed on at the 14th fret
has a double shim under saddle
has deep string cuts in nut

UNIT NAME #39-1 RUN #36 3/7/74 TEST RECORD № ~~36~~ 39-1

db

+20 +15 +10 + 5 0 - 5 -10 -15 -20 -25 -30 -35 -40

E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D E G A C D

Hz 41.2 49.0 55.0 65.4 73.4 82.4 98.0 110.0 130.8 146.8 164.8 196.0 220.0 261.6 293.7 329.6 392.0 440.0 523.3 587.3 659.3 784.0 880.0 1046.5 1174.7 1318.5 1568.0 1760.0 2093.0 2349.3 2637.0 3136.0 3520.0 4186.0 4698.6 5274.0 6271.8 7040.0 8372.0 9397.2

OPERATING TECHNICAN

DATE

OVATION INSTRUMENTS