

Neck Reset Procedure

(After all other structural work has been done)

In short: Straight edge should project to top of bridge + Top Deflection amount.

- 1- String instrument to pitch (use the same string gauge that will be used on instrument).
- 2- Adjust neck as straight as possible (remove any relief).
- 3- Place straight edge on the middle of the fretboard so the end butts up against middle/highest point of bridge.
- 4- Measure difference from top of bridge (assuming bridge is of good height) to bottom of straight edge. Note this amount (**A**)
 - 4b- Also note the distance from *surface of the instrument top to bottom of straight edge*.
- 5- Relax strings and again measure distance from *surface of the instrument top to bottom of straight edge*. This measurement difference is the Top Deflection **TD** and should be added to **A** to get the most accurate final neck reset result. *It is not essential to add the TD amount in the formula as it can be taken into account on top of the formula total.*

For a vintage guitar with no truss rod, note the neck relief Before/After string tension for future reference (compression fretting maybe needed). Rest the straight edge on the 7th fret (effectively halving the amount of relief being measured, simulating a straighter neck). A heat treatment of the neck may be a reasonable first temporary measure before setting the neck before employing more permanent solutions such as sanding, compression fretting etc, which should be *done* after a neck reset.

A = Underset amount- (Difference between top of bridge & bottom of straight edge.)

B = Length from heel cap to *bottom* of fingerboard.

C = Length from body join fret to center of saddle slot.

TD = Top deflection- How much the top rises *under string tension*.

X = *Amount of material to be removed from bottom of heel.*

E.G

A = 0.175 (thousands of an inch)

B = 3.5

C = 12

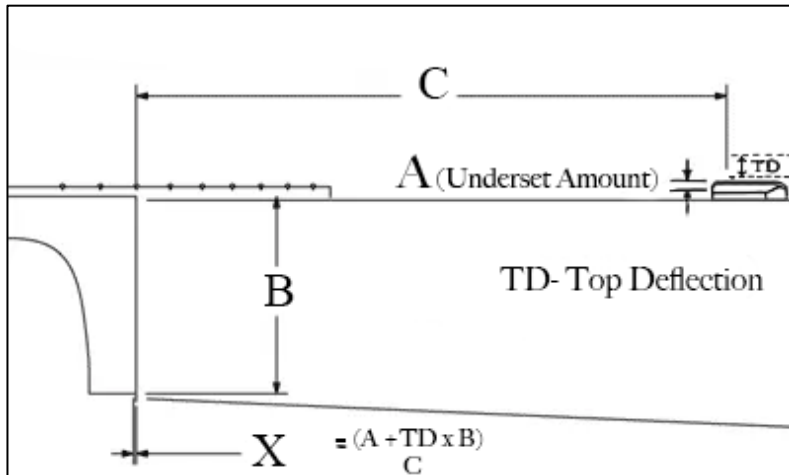
TD = 0.015

$$0.175 + .015 =$$

$$0.190 \times 3.5 \div 12 =$$

0.055" to be removed from heel

(Total is 0.051" if TD is not considered)



$$X = \frac{(A + TD) \times B}{C}$$

X =
Amount to remove from bottom of heel, tapering to nothing at the top.