

~ GUITAR ACTION & SETUPS ~

Measurements are all sensible *median* target numbers.

Workshop Humidity is best for repair & building on the drier side at 37-40%

1- Check that radius of fingerboard and saddle(s) match.

2- Check Relief and neck hump(s) at body join.

INTONATION

Pitch of open string should match pitch of string fretted at 12th fret WITHIN 5 cents (common hearing)

Too SHARP - Move break angle of string over saddle **BACKWARD**

Too FLAT - Move break angle of string over saddle **FORWARD**

1 Cent pitch difference = 0.014" break angle movement back/forward on saddle

on all common scale lengths (from standard Gibson 24.750 to Classical 650mm (25.656"))

ACOUSTIC ACTION

Steel string guitar

High E: - 5/64th

Low E: 5 to 6- /64th

Relief: Straight to 0.008"

Classical guitar

High E: 3mm

Low E: 4mm

Relief: 0.010"

Strings above top at
bridge: 12mm

Banjo: Strings above fret
board at 12th fret: 1/8"

Ukulele

High E: 2.5mm

High: G- 2.5mm-3mm

Relief: 0.010"

Flamenco Guitar

High E: 2.5mm

Low E: 3mm

Relief: 0.010"- 0.015"

Strings above top at
bridge: 8mm.

Mandolin

Treble: 1mm-1.5mm

(1/16th)

Bass: Slightly higher than
treble side.

Relief: 0.005" at 8th fret

Martin Bridge

Thicknesses:

5/16" (7.9mm)- Low

11/32" (8.7mm)- Standard

3/8" (9.5mm)- Higher

ELECTRIC ACTION & PICKUP HEIGHT

Guitar: 2/32nd

Bass: 3/32nd

Les Paul

Neck- 3/32nd both sides

Bridge- 1/16th both sides

Tele

Neck- 3/32 bass, 5/64th treble

Bridge- 3/32 bass, 5/64th treble

Strat

Neck- 1/8" bass, 3/32nd treble

Bridge- 1/8" bass, 3/32nd treble

Bass

Neck- 3mm bass, 2mm treble

Bridge- 3mm bass, 2mm treble

STRING TENSIONS (Mostly D'Addario Strings)

- John Pearse Folk 16-43 PJ116 **85 lb**
- 10-47 (EJ15)- **133 lb**
- 11-47- (EJ40 Silk & Steel)- **127lb**
- 11-52 (EJ26's)- **148 lb**
- 12-53 (EJ16's) - **160 lb**
- 13-56 (EJ17's)- **185 lb**
- Classical strings low **80lb**, high **90lb**