

# Bryce Weech Music's

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# Quick Guitar Set-Up

## Cheat Sheet

## Recommended Measurements

### Set-Neck Les Paul Style Guitar (24.75" scale)



- Neck relief (at 8th fret with capo on the first fret):
  - 0.25 mm to 0.3 mm
  - (0.010" to 0.012" or approx. 1/64")
  - (about 3 sheets of regular copy paper)
- String height (action) at the 12th fret:
  - Low E: 1.6 mm to 2.0 mm
    - (0.063" to 0.079" or approx. 1/16" to 5/64")
  - High E: 1.2 mm to 1.6 mm
    - (0.047" to 0.063" or approx. 3/64" to 1/16")
- Pickup height (from string fretted at last fret):
  - Neck pickup:
    - Low E: 2.0 mm (0.079" or approx. 5/64")
    - High E: 1.8 mm (0.071" or approx. 1/16")
  - Bridge pickup:
    - Low E: 1.6 mm (0.063" or approx. 1/16")
    - High E: 1.4 mm (0.055" or approx. 1/16")
- Nut height at 1st fret:
  - Low E: 0.8mm (0.03" or 2/64")
  - High E: 0.5mm (0.018" or 1/64")
- Intonation: Adjust by comparing the open string with the fretted note at the 12th fret.

### Bolt-On Neck Fender Style Guitar (25.5" scale)



- Neck relief (at 8th fret with capo on the first fret):
  - 0.2 mm to 0.3 mm
  - (0.008" to 0.012" or approx. 1/64")
  - (about 3 sheets of paper)
- String height (action) at the 12th fret:
  - Low E: 1.8 mm to 2.2 mm
    - (0.071" to 0.087" or approx. 5/64" to 3/32")
  - High E: 1.2 mm to 1.6 mm
    - (0.047" to 0.063" or approx. 3/64" to 1/16")
- Pickup height (from string fretted at last fret):
  - Neck pickup:
    - Low E: 2.5 mm (0.098" or approx. 3/32")
    - High E: 2.0 mm (0.079" or approx. 5/64")
  - Bridge pickup:
    - Low E: 2.0 mm (0.079" or approx. 5/64"),
    - High E: 1.6 mm (0.063" or approx. 1/16")
- Nut height at 1st fret:
  - Low E: 0.7mm (0.02" or 2/64")
  - High E: 0.5mm (0.018" or 1/64")
- Intonation: Adjust by comparing the open string with the fretted note at the 12th fret.

**Tools Needed:** - screwdrivers - adjustable wrench - hex key set - small ruler - pencil

**Optional But Handy:** - capo - feeler gauges - fret rocker - fret file - sandpaper - microfiber cloth

## Follow the "T.R.A.I.N.":

**Tune** - Do any cleanup and string replacing, then tune up the guitar.

**Relief** - Set the neck relief according to chart.

**Action** - Set the string action (by adjusting the bridge) according to chart (or preference).

**Intonation** - Check and set string intonation (fine tune bridge adjustment).

**Noodle/Nut** - Noodle around the fretboard - check each fret and bends and adjust the action

and intonation as needed. Check the nut measurement and address as needed.

## Set-up Steps

<b>Date</b>	
<b>Model</b>	
<b>Tune</b>	<b>Tune Strings</b> If you're changing the strings, remove the old ones. Then clean up the neck and around the bridge and nut. Do any fretboard conditioning, too. Put on new strings. Tune up to normal tuning
<b>Relief</b>	<b>Check and set the neck relief (bow)</b> Capo the 1st fret and press the string where the neck meets the body. Check relief at the 8th fret according to recommendations above. If the relief is too high, adjust the truss rod clockwise to tighten. If too low, loosen the truss rod to allow more relief.. Only use ¼ turns at first.  Note Relief: _____
<b>Action</b>	<b>Check and set the string action (height of strings from fret)</b> Measure the action at the 12th fret according to suggestions above. Adjust the bridge accordingly to your preference. Check action for each string for fender-style individual bridge pieces to account for neck radius. Play every note on the neck to check for buzz and address any fret issues. Repeat from tune if there is any filing necessary.  Note Action: _____
<b>Intonation</b>	<b>Check and adjust intonation</b> Using a tuner, compare open strings to note on the 12th fret. Saddle screws adjust the bridge length. If the 12 fret is too high, lengthen the distance from the 12th fret to the bridge stop.
<b>Noodle / Nut</b>	<b>Now Noodle around.</b> Noodle around and make sure the adjustments worked and the guitar is playable. Check the nut action at the first fret. If adjustments are needed, go back through the setup. This guide does not cover nut-filing or adjustment.

