

**An unbalanced instrument** due to an unnecessarily heavy headstock not only puts extra strain on your neck and shoulder muscles, it also adversely affects your playing technique. If your left hand is constantly propping up your instrument's neck, you're not free to play. You are not able to attain the correct finger/fret board relationship so important in smooth, relaxed playing. I designed the **ULTRALITE Bass Tuning Machines** to help lighten your load. Now you can achieve correct instrument balance while not sacrificing the strength and durability of your tuners.

The following are the weights (in grams) for the different models of Hipshot ULTRALITE Tuners. These weights include the tuner, barrel nut, mounting washer and mounting screw:

HB6Y Ultralite Y Key with 3/8" dia. String post: 44 grams

HB6Y Ultralite Y Key with 1/2" dia. String post: 49 grams

HB6C Ultralite Clover Key with 3/8" dia. String post: 47 grams

HB6C Ultralite Clover Key with 1/2" dia. String post: 57 grams

**In comparison** the Gotoh GB7 tuner weighs 64 grams. The Ultralite which weighs 44 grams is over 30% lighter! If you want to know how your 5 string bass equipped with Gotoh GB7 tuners would balance if you replaced them with Ultralites, just remove one of the GB7 tuners (5 Ultralite tuners weigh less than 4 GB7 tuners)!

Schaller M4 tuners weigh 68 grams. Our Ultralites are 35% lighter! If you have a four string bass equipped with Schaller M4 tuners, take off 1 M4 and see how much better your bass balances (4 of our tuners weigh less than 3 of theirs)!

Fender Precision and Jazz Deluxe use the BT4S tuner. These tuners weigh 123 grams each. 4 BT4S tuners weigh 492 grams (there are 454 grams in a pound). In comparison 4 Ultralite Clover Key with 1/2" string posts weigh 228 grams! Ultralites are more than 2 times lighter than the BT4S tuners. If you replace your BT4S with the Hipshot Ultralites your headstock will be 264 grams lighter, that's over 1/2 of a pound! Your shoulder will thank you!

Fender basses between 1966 and 1982 used the Schaller BMFL tuner. BMFL tuners weigh 110 grams each. Our Ultralite HB6C with 1/2" string posts weigh 57 grams each. That's about half the weight.

G&L Musicman and Fender Mexican bass tuners weigh 95 grams each. The recommended Ultralite HB6C with 1/2" string posts is about 1/2 the weight. Take off 2 tuners and feel the difference!