



ELECTRIC BASS

OWNER'S MANUAL

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*Congratulations on your choice of the Yamaha electric bass.
With reasonable care your Yamaha electric bass will age gracefully and provide many years of superlative musical service.*

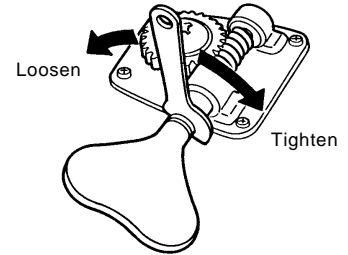
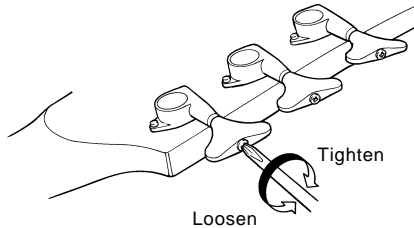
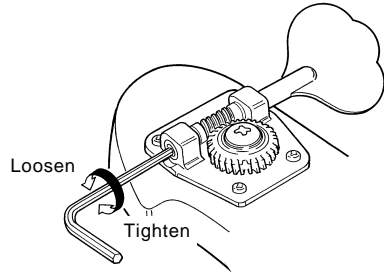
CARE AND MAINTENANCE

- * When connecting or disconnecting cables, turn off the amplifier and other equipment or reduce the volume.
- * After playing, wipe the entire guitar down, including strings, with a good polishing cloth. This will remove corrosive skin oils and acids, and protect the plating, finish, and strings.
- * Avoid exposing the guitar to direct sunlight and extremes of heat and humidity.

TUNING MACHINE TENSION ADJUSTMENT

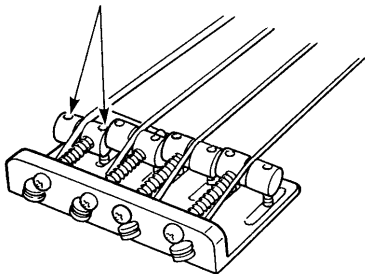
The tuning machines have spring-loaded mechanisms which automatically take up wear, preventing backlash. However, it is possible to adjust the amount of pressure required to turn the machines. Each machine has a tension adjustment screw, as illustrated.

Clockwise rotation tightens the machine. The tuning machines should be adjusted to the extent that they are firm, but can turn smoothly. This adjustment is normally unnecessary, and excessive tightening can lead to premature tuning machine wear.



SETTING THE STRING ACTION

Height adjustment



NOTE: Be sure to perform any necessary adjustments to the truss rod before performing the following adjustments.

STRING	HEIGHT
*5th (Low B)	3.1 ± 0.2 mm
4th (E)	3.0 ± 0.2 mm
3rd (A)	2.9 ± 0.2 mm
2nd (D)	2.8 ± 0.2 mm
1st (G)	2.7 ± 0.2 mm

(*5 string bass)

Set one end of the 15cm rule on top of the Final fret with the flat side of the rule against the string and measure the space between the top of the Final fret and bottom of each open string. The recommended height for each string should be as above.

Individual height adjustments for each string are provided in the form of two set screws on each saddle. Clockwise rotation raises saddle height and counter-clockwise lowers the saddle.

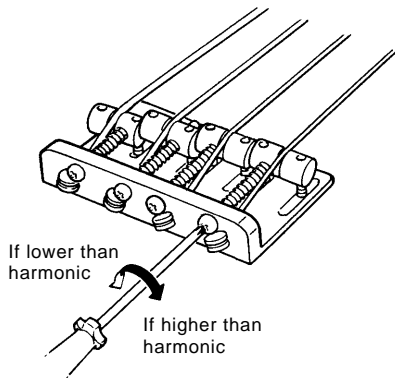
INTONATION ADJUSTMENT

When the string gauge and/or bridge height is changed, or the truss rod is adjusted, it is usually necessary to reintonate the bridge saddles. If the bass plays out of tune in the higher registers, this adjustment is needed. Check each string in the following way:

To check intonation, compare the harmonic tone (12th fret) to the fretted tone (12th fret). Because the 12th fret is the midway point between the nut and the bridge, a harmonic tone one octave higher than the fretted tone can be generated. This is done by barely touching the string directly above the 12th fret (left hand) and simultaneously plucking the same string (right hand). If the fretted tone is exactly the same pitch as the harmonic tone, no adjustments to the bridge saddles are necessary. However, if the fretted tone is higher in pitch (sharp) or lower in pitch (flat) than the harmonic tone, apply the appropriate adjustment as shown below. Repeat the same procedure for each string.

If the fretted note is pitched higher than the harmonic, turn the corresponding saddle adjustment screw clockwise, increasing the active string length.

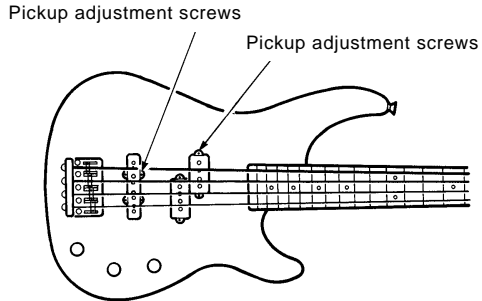
Conversely, if the fretted note is pitched lower than the harmonic, turn the corresponding saddle adjustment screw counter-clockwise, reducing the active string length.



PICKUP HEIGHT ADJUSTMENT

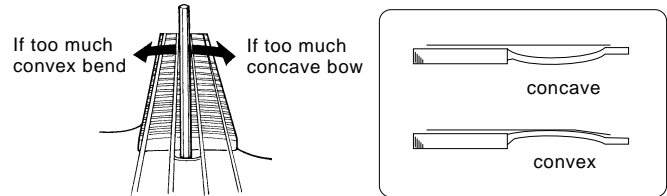
Proper pickup adjustment ensures maximum output level and uniform response on all strings. To make adjustments, follow the directions below:

Using your left hand, depress each string at the last fret, while setting one end of the 15cm rule on top of the pickup section directly under each string. The flat side of the rule should be against the string. The space between the bottom of each string and the top of the corresponding pickup section should be 3mm.



TRUSS ROD ADJUSTMENT

The curvature of the neck should be slightly concave. Clockwise rotation of the nut tightens the rod and corrects for too much concave bow. Counterclockwise rotation of the nut loosens the rod and corrects for too much convex bend. Make any adjustments gradually. Allow five to ten minutes for setting, and check the curvature after each 1/2 turn of the truss rod nut.



NOTE: Unless you have experience with truss rods, we suggest that you entrust this adjustment to your dealer.

SERVICE

If your guitar should need any parts or service, or if you need any information, including the address of your nearest YAMAHA dealer, contact:

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