YAMAHA

エレクトリックベース
ELECTRIC BASS
E-BASS
BASS ELECTRIQUE
BAJO ELÉTRICO
BASSO ELETTRICO
BAIXO ELÉTRICO
ЭЛЕКТРИЧЕСКАЯ БАС-ГИТАРА
电贝斯
일렉트릭 베이스

取扱説明書
OWNER'S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUALE DELL'UTENTE
MANUAL DO PROPRIETÁRIO
РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ
用户手册
사용 설명서

YAMAHA

ELECTRIC BASS

OWNER'S MANUAL

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Thank you for purchasing a Yamaha electric bass.
In order to obtain maximum performance and enjoyment from this instrument,
we urge you to read this Owner's Manual thoroughly before using the instrument.
After read, we recommend that you keep it in a convenient place for future reference.

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.
For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

Cd

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Informatie voor gebruikers van inzameling en verwijdering van oude apparaten en gebruikte batterijen



Deze tekens op de producten, verpakkingen en/of bijgaande documenten betekent dat gebruikte elektrische en elektronische producten en batterijen niet mogen worden gemengd met algemeen huishoudelijk afval.
Breng alstublieft voor de juiste behandeling, herwinning en hergebruik van oude producten en gebruikte batterijen deze naar daarvoor bestemde verzamelpunten, in overeenstemming met uw nationale wetgeving en de instructies 2002/96/EC en 2006/66/EC.

Door deze producten en batterijen juist te rangschikken, helpt u het redden van waardevolle rijkdommen en voorkomt u mogelijke negatieve effecten op de menselijke gezondheid en de omgeving, welke zich zou kunnen voordoen door ongepaste afvalverwerking.



Voor meer informatie over het inzamelen en hergebruik van oude producten en batterijen kunt u contact opnemen met uw plaatselijke gemeente, uw afvalverwerkingsbedrijf of het verkooppunt waar u de artikelen heeft gekocht.

[Voor zakelijke gebruikers in de Europese Unie]

Mocht u elektrische en elektronisch apparatuur willen weggooien, neem dan alstublieft contact op met uw dealer of leverancier voor meer informatie.



[Informatie over verwijdering in ander landen buiten de Europese Unie]

Deze symbolen zijn alleen geldig in de Europese Unie. Mocht u artikelen weg willen gooien, neem dan alstublieft contact op met uw plaatselijke overheidsinstantie of dealer en vraag naar de juiste manier van verwijderen.

Opmerking bij het batterij teken (onderkant twee tekens voorbeelden):

Cd

Dit teken wordt mogelijk gebruikt in combinatie met een chemisch teken. In dat geval voldoet het aan de eis en de richtlijn, welke is opgesteld voor het betreffende chemisch product.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.

⚠ WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings.

Battery

- Follow the precautions below. Failure to do so might result in explosion, fire, overheating or battery fluid leakage.
  - Do not tamper with or disassemble batteries.
  - Do not dispose of batteries in fire.
  - Do not attempt to recharge batteries that are not designed to be charged.
  - Keep the batteries separate from metallic objects such as necklaces, hairpins, coins, and keys.
  - Use the specified battery type only.
  - Use new batteries, all of which are the same type, same model, and made by the same manufacturer.
  - Always make sure all batteries are inserted in conformity with the +/- polarity markings.
  - When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.
- Keep batteries away from small children who might accidentally swallow them.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

⚠ CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

Location

- To avoid damage to your instruments wood, finish, or electronic components, DO NOT expose this instrument to direct sunlight, high temperatures/humidity or leave stored in an automobile.
- Do not use close to electronics such as speakers, TV, and radio. The instrument's electronic circuits may cause noise in the TV or radio.
- Do not place the instrument in an unstable position where it might accidentally fall over.

Connections

- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.
- To prevent the possibility of electrical shock or fire, we recommend using great caution when using this instrument in high humidity or wet weather environments. We also recommend that you read all Owner's Manuals for the external equipment that you connect this musical instrument to.

Handling caution

- Never hold the instrument close to your face when adjusting or replacing strings. A string may unexpectedly break damaging your eyes.
- If you cut the strings when replacing, do so after sufficiently loosening the pegs. Sudden loss of string tension may damage the neck and the rebounding strings may cause serious injury.
- After changing the strings, cut off the leftover string ends. String ends are sharp and can cause injuries.

- To avoid injury when cleaning this instrument, beware of sharp string ends.
- When using a strap, make sure the strap is securely attached to the guitar.
- Do not lift the guitar by strap. It can cause serious injury or damage to the guitar.
- Do not treat the instrument in a rough manner such as swinging it about, etc. The strap on the guitar may detach causing unexpected accidents such as the instrument dropping, etc., or injuring persons close by.
- In the following situations, a strap can easily slip off from the strap pins. Take extra care to avoid:
  - a twisted strap
  - sudden body movements
  - a worn out strap
- If cleaning is required, wipe with a soft cloth. Do not use thinners, solvents, cleaning fluids, or wipes soaked with chemicals. Also. Do not place vinyl or plastic products on the instrument. Doing so can cause discoloration/deterioration.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.

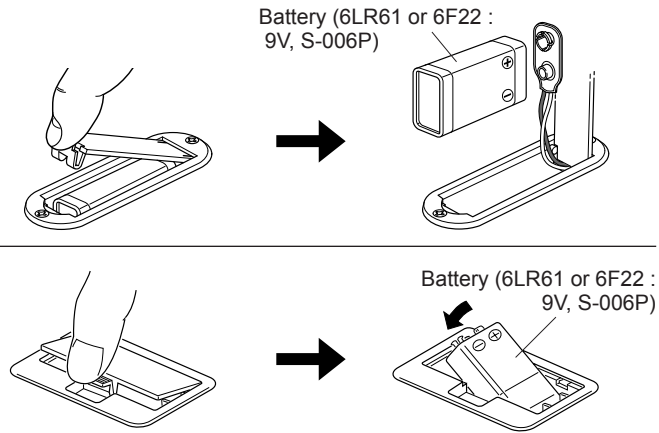
Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument.

Make sure to discard used batteries according to local regulations.

Be Careful When Handling and Other Cautions

- The guitar has been properly adjusted before being shipped from the factory. In the event adjustment is necessary, contact the dealer from whom you purchased the instrument, if possible, as special skills may be required. For those adjustments that can be performed by the owner, please closely follow the instructions given in the Owner's Manual for the procedure.
- When playing the instrument, pay attention to the volume level. Especially late at night, take neighbors and those who are close by into consideration.
- Broken guitar necks are mostly the result of accidents such as dropping the guitar, the guitar falling over, or from shocks occurred during transport. When the guitar is not being used, make sure it is kept on a sturdy stand where it won't fall over, or place it in its case.

Correct Use and Handling of Batteries

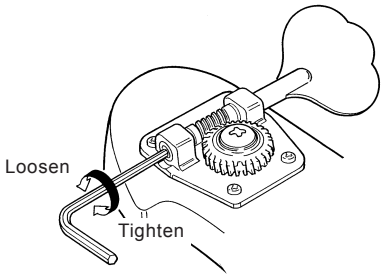


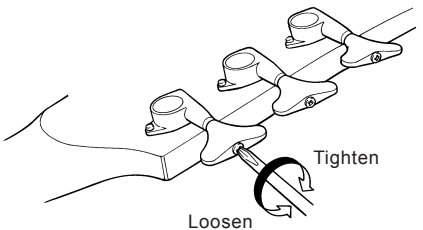
* When changing batteries, pay close attention to the +/- polarity markings as shown in the illustration above.
* Use only a DC9V, S-006P (6LR61 or 6F22) or equivalent battery.

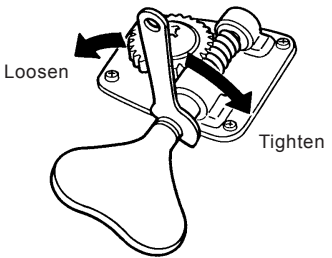
TUNING MACHINE TENSION ADJUSTMENT

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

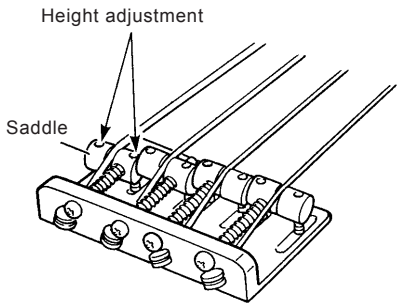
— Bridge —

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

String height refers to the space between the strings and frets, and has an affect on playability.
Set too high and the instrument is hard to play. Too low results in fret noise.
Adjust so that the space between the string and the last fret measures as follows:

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.

STRING			TUNING	HEIGHT
4-string bass	5-string bass	6-string bass		
—	—	1st	High C	2.6 mm
1st	1st	2nd	G	2.7 mm
2nd	2nd	3rd	D	2.8 mm
3rd	3rd	4th	A	2.9 mm
4th	4th	5th	E	3.0 mm
—	5th	6th	Low B	3.1 mm



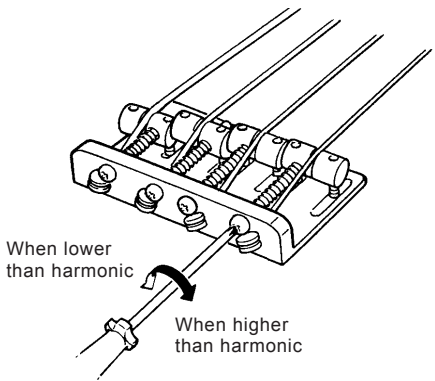
INTONATION ADJUSTMENT

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.

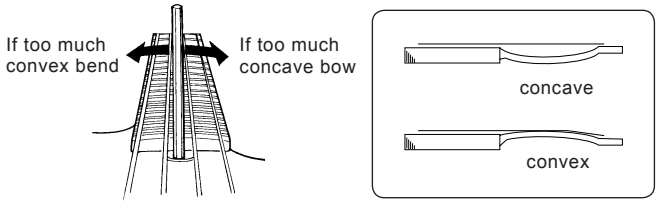
If the fretted note is pitched higher than the harmonic, turn the corresponding saddle adjustment screw clockwise, increasing the active string length.

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



TRUSS ROD ADJUSTMENT

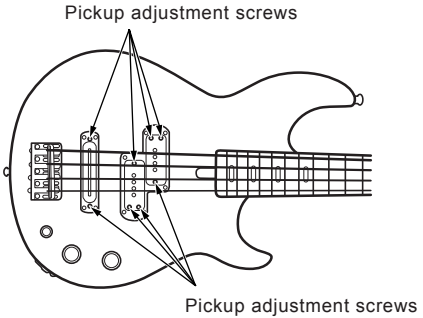
The curvature of the neck should be slightly concave.
Clockwise rotation of the nut tightens the rod and corrects for too much concave bow. Counterclockwise rotation of the nut loosens the rod and corrects for too much convex bend. Make any adjustments gradually. Allow five to ten minutes for setting,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

PICKUP HEIGHT ADJUSTMENT

The height of the pickup (i.e. distance from the strings) affects gain — the higher the pickup, the louder the sound, and vice versa. If the pickup is set too high, sustain and playability will suffer because of the magnetic pull on the strings. Adjust overall height using the screws located at either side of the pickup.
For optimal performance, we recommend measuring a distance of 2-3 millimeters between the bottom of string and the of the top of adjustable pole piece while fretting the highest fret.



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版次　R0 1602

ZV54670