

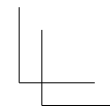
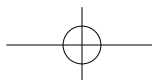


ELECTRIC GUITAR

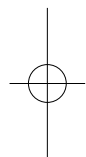
OWNER'S MANUAL

CONTENTS

CARE AND MAINTENANCE.....	2	VIBRATO SYSTEM Locking Type (part 2)	7
TUNING MACHINE TENSION ADJUSTMENT	3	BRIDGE/SPRING TENSION ADJUSTMENTS	8
HEIGHT ADJUSTABLE LOCKING NUT	3	TRUSS ROD ADJUSTMENT	9
SETTING THE STRING ACTION	4	PICKUP HEIGHT ADJUSTMENT	9
VIBRATO SYSTEM Vintage Type	5	CORRECT USE AND HANDLING OF BATTERIES.....	10
VIBRATO SYSTEM Locking Type (part 1)	6	Safety Precautions.....	11

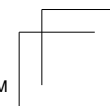
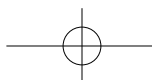
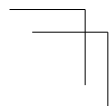
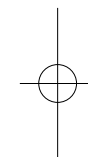


*Congratulations on your purchase of the
YAMAHA electric guitar.
With reasonable care, your YAMAHA elec-
tric guitar will age gracefully and provide
many years of superlative musical service.*



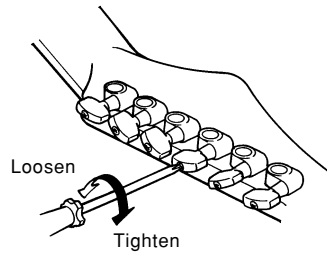
CARE AND MAINTENANCE

- * 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

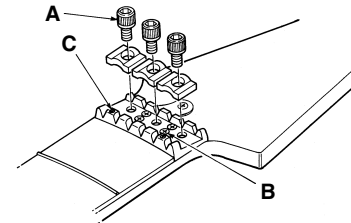
The tuning machines have spring-loaded mechanisms which automatically take up wear, preventing backlash. However, it is possible to adjust the amount of pressure required to turn the machines. Each machine has a tension adjustment screw, as illustrated.



Clockwise screw 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.

HEIGHT ADJUSTABLE LOCKING NUT

- 1) Remove 3 pcs. of hexagonal screws fixing the Lock Pads. (illustration — A)
- 2) Loosen 4 pcs. of screws fixing the Nut Base. (illustration — B)
- 3) Adjust the height by the Height Adjustment Screw. The Nut Base gets higher by clockwise rotation, and lower by counterclockwise rotation. (illustration — C)



NOTE: As the height has been adjusted in the best condition in the factory, please avoid the adjustment unless you have suitable experience. We suggest that you entrust this adjustment to your dealer.

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 effect on playability.

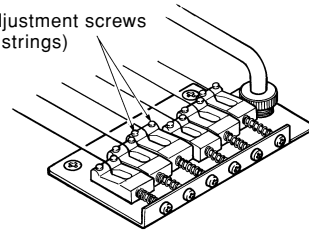
String height is adjusted with the bridge and/or the saddle on the bridge. Adjust height by alternately turning the screws little by little on the left and right sides.

Set too high and the instrument is hard to play. Too low results in fret noise.

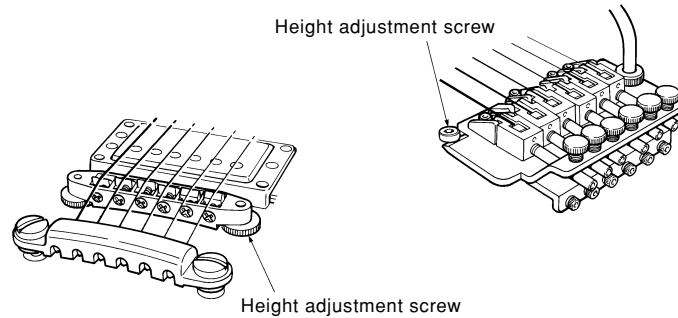
Adjust so that the space between the string and the last fret measures as follows:

String	Tuning	Height
1st	E	1.9 mm
2nd	B	2.0 mm
3rd	G	2.1 mm
4th	D	2.2 mm
5th	A	2.3 mm
6th	E	2.4 mm

Height adjustment screws
(for each strings)

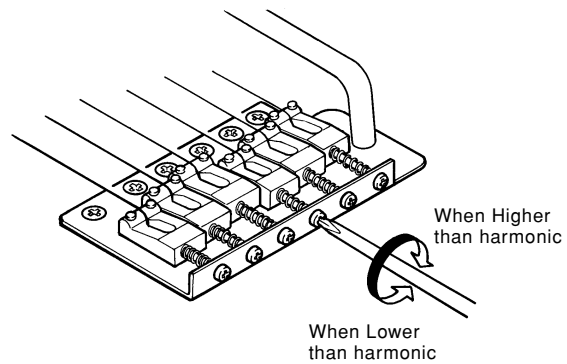


Height adjustment screw



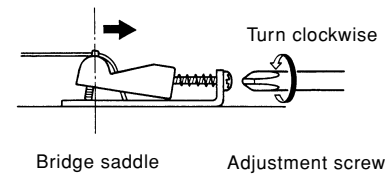
VIBRATO SYSTEM Vintage Type

Following is the procedure for adjusting the vintage vibrato system:

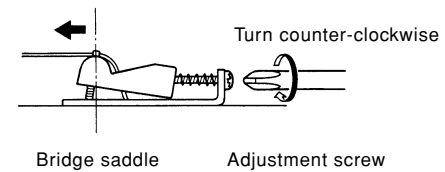


To check intonation, compare the harmonic tone (12th fret) to the fretted tone (12th fret).

- If fretted pitch is higher than harmonic, saddle must be moved backward to lengthen string.



- If fretted pitch is lower than harmonic, saddle must be moved forward to shorten string.

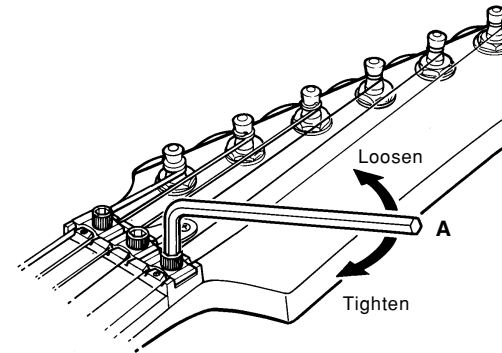


VIBRATO SYSTEM Locking Type (part 1)

When changing strings it is necessary to cut off the ball ends of the strings.
Following is the procedure for changing strings and adjusting the vibrato system:

- 1) Using the supplied hexagonal wrench, loosen the three hexagonal screws on the lock above the nut. (illustration — A)
- 2) Loosen the individual string locks using the supplied hexagonal wrench. (illustration — B)
- 3) Replace the old strings with new strings.
- 4) Using the hexagonal wrench, lock each string. (illustration — B)
After locking the strings, make sure that the fine tuning thumb screws are in the middle of their range of travel. (illustration — C)
- 5) Tune the guitar to the correct pitch.
- 6) Remove the back plate to gain access to the vibrato strings. Three springs are factory installed and we recommend that these springs be adjusted so that the vibrato bridge plate is parallel to the top of the guitar when it is tuned to correct pitch.

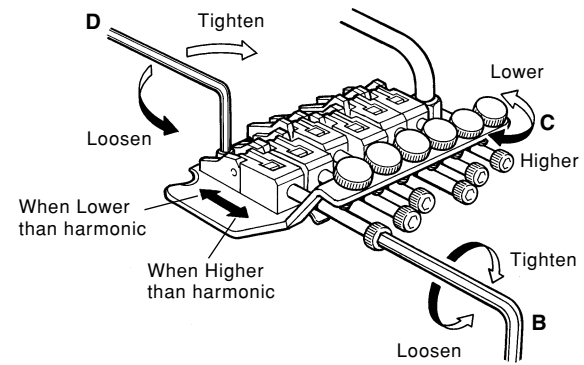
- 7) Lock the strings above the nut. (illustration — A)
- 8) Use the fine tuning thumb screw to tune the guitar to the correct pitch. (illustration — C)



VIBRATO SYSTEM Locking Type (part 2)

Intonation Adjustment in Vibrato Bridge

- 1) Loosen the hexagonal screw located in front of each saddle using the supplied hexagonal wrench. (illustration — D)
- 2) Slide the saddles by hand to adjust the length of each string.
- 3) When the intonation is correct, tighten the hexagonal screw in front of each saddle to ensure that its position stays stationary. (illustration — D)



BRIDGE/SPRING TENSION ADJUSTMENTS

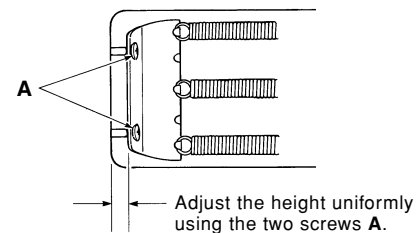
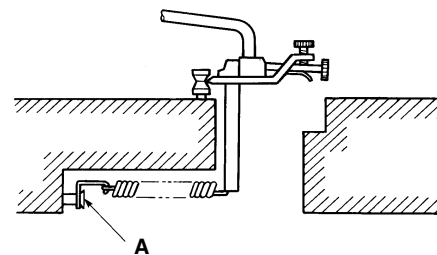
For best results the bridge should always be adjusted so it is parallel to the top surface of the guitar as shown in illustration (below). This position is maintained by opposing tension between the strings and the claw springs. If you change string gauge, you will need to readjust the spring tension to return the bridge back to the parallel position.

The adjustment procedures are:

- 1) Remove the screws that attach the tremolo cavity back plate from the back side of the guitar exposing the claw springs.
- 2) Make sure that the guitar is tuned to proper pitch.
- 3) If the bridge is tilted forward (up), tighten spring tension by turning the claw screws clockwise. If the bridge is tilted back (down), loosen the spring tension by turning the claw screws counterclockwise.

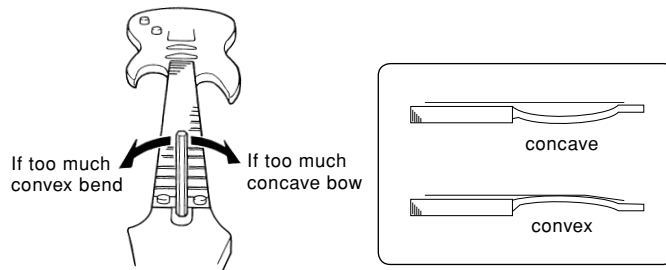
(illustration — A)

Be sure to check string pitch after each adjustment to the spring tension.



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.

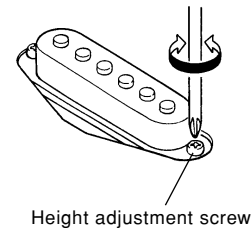


NOTE: Unless you have experience with truss rods, we suggest that you entrust this adjustment to your dealer.

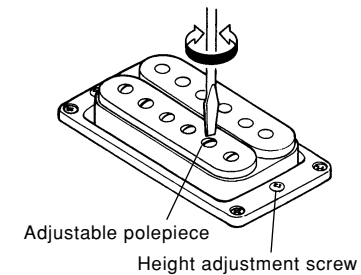
PICKUP HEIGHT ADJUSTMENT

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. If the pickup has individually adjustable polepieces (most humbuckers do), these can then be adjusted to achieve the best overall balance. The polepieces should normally be about 2 or 3 millimeters from the strings.

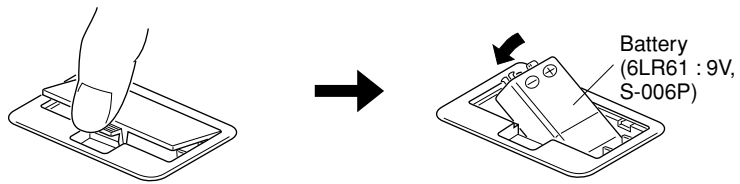
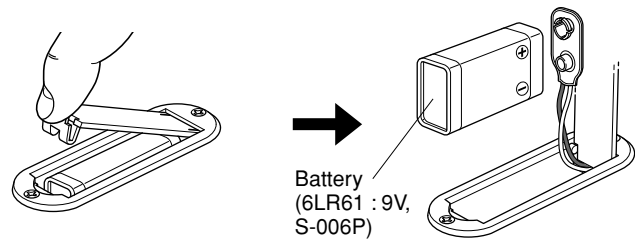
Single-coil Pickup



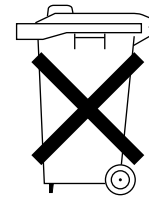
Humbucking Pickup



CORRECT USE AND HANDLING OF BATTERIES



* When changing batteries, pay close attention to the +/- polarity markings as shown in the illustration above.



When these run out, don't just throw them away, but dispose of them as minor chemical waste.

Thank you for purchasing this Yamaha Guitar.
To get the most out of this fine instrument, and to use it in a safe manner, we urge you to read this Owner's Manual before using the instrument.
The cautions given in the following Safety Precautions section are provided to prevent unexpected injuries or accidents. Please understand each of the cautions and use the instrument in a safe and proper manner.



Caution

Safety Precautions

Using your Yamaha Guitar in a Safe Manner

Preventing Unexpected Injuries and Accidents

- 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.



- Do not place your face close to the instrument when changing or adjusting the strings. Strings may suddenly break causing injuries to eyes, etc. It can be the cause other unexpected injuries as well.



- After changing the strings, cut off the leftover string ends. String ends are sharp and can cause injuries.
- Clean the instrument with a soft, dry cloth. And when cleaning the headstock, be careful not to injure yourself on the sharp string ends.

Using Batteries Properly

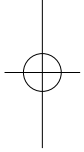
- For guitars that use a battery, make sure that only the specified battery is used and it is installed with its polarity markings aligned properly.
- On guitars that require two or more batteries, do not mix new batteries with old.
Improper use of batteries can result in the batteries rupturing or leaking, causing injury or damage.
- Never incinerate batteries.
Separate batteries from household garbage and dispose of them in a proper manner.



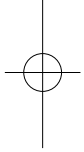
Preventing Electrical Accidents

- If the instrument must be used outdoors in bad weather, or in a place with high humidity, please use caution. Please read the Owner's Manuals that came with the devices, such as power amplifiers, etc., that you connect your guitar to.
Accidents such as fire or electric shock can occur due to lightning strikes.

Store the Instrument Properly

- 
- Do not keep the instrument close to a fire or flame, and keep it on a low, stable surface.
The instrument can catch fire, and earthquakes can cause it to fall if stored in a high location.
 - Do not leave the instrument leaning against the wall, etc., in the vicinity of children.
The instrument may be bumped causing it to fall over resulting in injury.
 - If the instrument is not going to be used for an extended period of time, remove the batteries and keep the instrument in a place other than those listed below.
 - Locations subject to direct sunlight.
 - Locations subject to extremely high or low temperatures.
 - Locations subject to high humidity, dust, or vibration.
 - During the summer season, temperatures inside of a -car can become extremely hot. Do not leave the instrument inside of a car.

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.
 - Do not treat the instrument in a rough manner like throwing objects at the instrument, dropping the instrument, etc. And do not put excessive force on the switches or control knobs, etc.
Doing so can result in damage.
 - When connecting or disconnecting the cable, make sure the guitar amplifier's power is switched OFF, or the amplifier's volume is turned all the way down.
Not doing so can shorten the life of the guitar amplifier.
 - When cleaning the instrument, use a soft, dry cloth. Also, do not spray insecticides close to the instrument.
Doing so can damage the guitar's finish.

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

Für Ersatzteile, Kundendienstfälle oder Informationen jeglicher Art, einschließlich der Adresse des nächstgelegenen YAMAHA-Händlers, wenden Sie sich bitte an:

Si vous avez besoin d'une pièce, si la guitare doit être réparée, ou si vous avez besoin d'informations, y compris l'adresse du distributeur YAMAHA le plus proche, adressez-vous à:

En caso de requerir alguna pieza o el servicio técnico de la guitarra, así como si necesita alguna información, como pueda ser la dirección del distribuidor YAMAHA que esté más cerca de su casa, póngase en contacto con:

Se la vostra chitarra dovesse richiedere parti o assistenza tecnica o se aveste bisogno di qualsiasi informazione, compreso l'indirizzo del più vicino rivenditore autorizzato di prodotti Yamaha, entrare in contatto con:

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0904 Printed in Japan