



ELECTRIC ACOUSTIC GUITAR

Owner's Manual

Thank you for choosing a Yamaha electric-acoustic guitar. In order to make the most of the advanced features and performance provided by your guitar, please read this manual carefully before using the instrument.

PRECAUTIONS

- The output jack is an EIAJ-standard 1/4" phone jack. Be sure to use an appropriate connection cable.
- The built-in preamplifier is automatically turned on when a plug is inserted into the output jack. When not using the instrument, or when playing it without amplification, be sure to remove the plug from the output jack so that the preamplifier power is turned off.
- Always set the VOLUME control to "0" when plugging in or unplugging the connection cable.
- The battery check indicator (BATT.) will light briefly when a plug is inserted or removed from the output jack. This is normal and does not indicate a malfunction.
- Be sure to remove the battery if the instrument will not be used for an extended period of time in order to prevent possible damage due to battery leakage.

SPECIFICATIONS

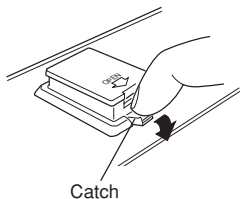
System	SYSTEM-45N (Monaural 2 way)
Pickup	• Bar Sensor (Piezo type) • Condenser Mic (with gooseneck)
Pre-amplifier Controls	VOL., MIC.VOL., EQ control for bar sensor (piezo) : HIGH, MID, LOW, AMF, PHASE(Phase switch for mic)
Output jack	Combination end pin/power switch
Output impedance	1 kΩ
Power supply	9V DC, S-006P (6F22) dry cell battery
Battery life	Approx. 300 hours
Accessories	• Hexagonal wrench for neck adjustment x1 • Sound hole cover for preventing feedback x1 • S-006P (6F22) dry cell battery x1

BATTERY REPLACEMENT

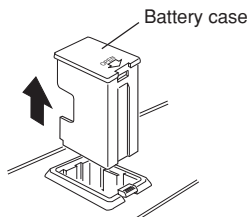
Be sure to replace the battery as soon as possible when the battery check indicator lights in order to avoid reduced sound quality.

* Be sure to remove the battery if the instrument will not be used for an extended period of time in order to prevent possible damage due to battery leakage.

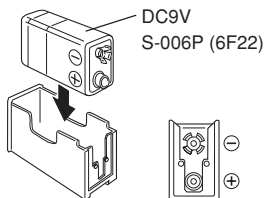
- ① Press the catch on the battery holder in the direction indicated by the arrow in the illustration in order to unlock it.



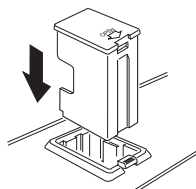
- ② Slide out the battery case.



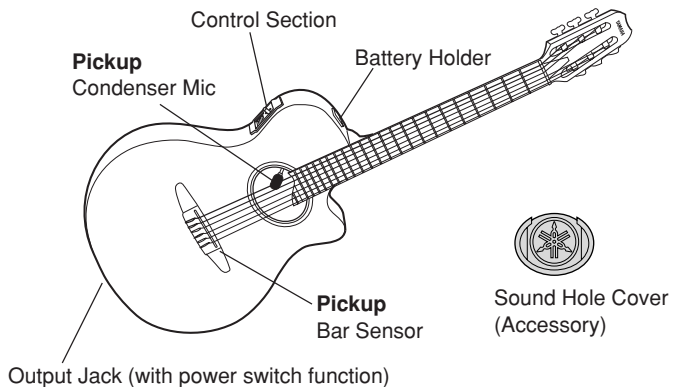
- ③ Remove the old battery from the battery case, and insert the new battery making sure that the (+) and (-) terminals of the battery are positioned as shown in the illustration. Use only a DC9V, S-006P (6F22) or equivalent battery.



- ④ Slide the battery case back into the battery holder and press firmly so that the battery case locks into place.



NOMENCLATURE



THE CONTROLS

① VOL. (Volume) Control

Adjusts the overall output volume level.

* Make sure that the VOL. is turned to "0" before connecting or disconnecting.

② BATT. (Battery Check) Indicator

This indicator will light when the battery needs to be replaced.

Please replace the battery as soon as possible when the BATT. indicator lights.

③ Equalizer Controls for the Bar Sensor (Piezo)

LOW : Boosts or cuts the level of the low frequencies.

MID : Boosts or cuts the level of the middle frequencies.

The AMF control ④ adjusts the center frequency of the band affected by this control.

HIGH : Boosts or cuts the level of the high frequencies.

④ AMF Control

Sets the center frequency of the band of frequencies affected by the MID equalizer control. The range is from 80 Hz to 5 kHz.

* This control has no effect when the MID equalizer control is set to its center ("0") position.

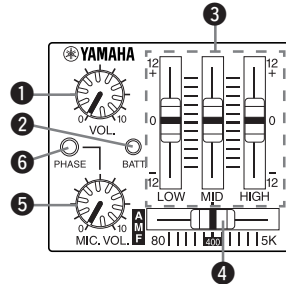
⑤ MIC. VOL.

Controls the volume of the condenser mic that is located inside the body (to the back of the preamplifier).

* Setting the volume level too high may result in feedback causing damage to your sound system. If feedback occurs, turn down the MIC. VOL. control until the feedback stops or use a sound hole cover to prevent feedback.

⑥ PHASE switch for the MIC

Using this switch will change the tone when the mic signal is added to the guitar's tone. It can be effectively used to control feedback depending upon the devices that are used and knob settings. Use it as you like.



USING THE SOUND HOLE COVER

Feedback often occurs when controls are boosted on the electric acoustic guitar to match the volume of other instruments when playing in a band.

Another source of feedback results from using the MIC. VOL. control to increase the output from the internal condenser mic.

When the instrument is used under the conditions described above, the Sound Hole Cover should be inserted into the sound hole.

With the Sound Hole Cover in place, feedback is effectively reduced.

CONDENSER MIC ADJUSTMENT

The condenser mic is attached inside the body (behind the preamplifier) with a flexible pipe that allows free adjustment of the mic's direction.

A variety of tone variations are achievable by changing the direction of the mic head.

• When the guitar was shipped from the factory, the mic head is positioned inside the body slightly pointed towards the sound hole and about 10mm from the guitar's top. (You can see it from the sound hole.) This setting is good for picking up the sound of the strings being plucked. (See diagram 1)

• When the mic head is slightly pointing toward the inside of the body this setting will pickup a bigger body sound. (See diagram 2)

* Try some different mic placements and select the one you prefer.

