

SYSTEM 600T MK II

Acoustic Preamp / EQ

Owner's Guide



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CONGRATULATIONS!

You have chosen the finest acoustic Preamp/Eq System available.



The Alvarez System 600T MK II Preamp/Eq is designed to offer the finest acoustic guitar tone reproduction available. The System 600T MK II provides a broad range of sonic control, mixing capability for different combinations of piezo/magnetic/microphone transducers, and features an on-board digital chromatic tuner. We recommend that you take a few minutes to read this manual in order to familiarize yourself with the many advanced features and capabilities of the System 600T MK II.

This guitar is equipped with a piezo pickup mounted under the bridge saddle. This pickup is connected to the PIEZO input of the System 600T MK II, and the guitar will perform perfectly with this pickup/preamp combination. The System 600T MK II is capable of mixing an additional Alvarez ACM50 condenser mic or an Alvarez ASP50 MK II sound hole pickup with the piezo pickup for a wider range of sonic possibilities. Some features of the System 600T MK II will only operate when an additional pickup/microphone is used.

INTERNAL CHASSIS CONTROLS/CONNECTIONS

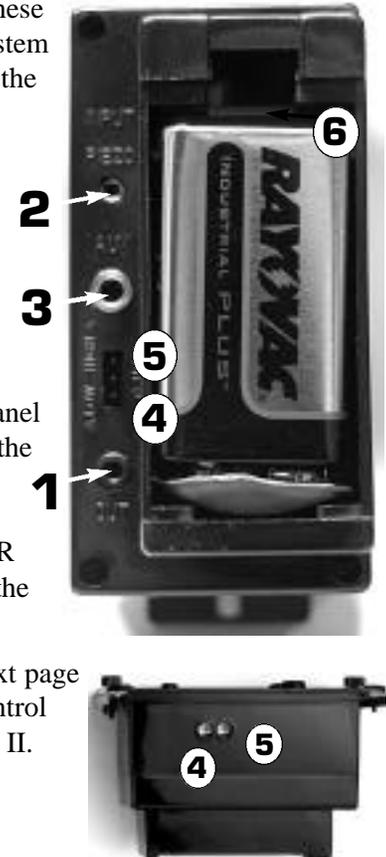
With the chassis removed from the mounting ring, you will notice connections on the rear panel, next to the battery compartment. The connection marked **(1) OUTPUT** is for the signal being sent to the output jack. There are two **INPUT** jacks, labeled **(2) PIEZO** and **(3) AUX**. The PIEZO input should already be connected to the under-saddle bridge pickup. The AUX input is included for use with an additional Alvarez ASP50 MK II sound hole pickup or an Alvarez ACM50 condenser microphone. Power for the ACM50 is supplied through the ring of the AUX jack.

On the side of the chassis are two trim pots, labeled **(4) LOW** and **(5) HIGH**. These trim pots are used to adjust the gain of the BASS and TREBLE sliders on the front panel. These adjustments are used to “fine tune” the System 600T MK II to the sonic characteristics of the particular guitar being used.

BATTERY COMPARTMENT

The System 600T MK II is powered by a 9 Volt battery mounted in the bottom of the control chassis. Access the battery compartment by removing the two front panel thumb screws and lifting the chassis from the mounting ring. Further, the System 600T MK II can be phantom powered on instruments equipped with an optional XLR switching jack via the 3-pin connector on the rear of the chassis.

Refer to the front panel diagram on the next page to familiarize yourself with the various control functions of the Alvarez System 600T MK II.



FRONT PANEL CONTROLS AND FEATURES

1) BAT Battery Indicator: When a guitar cable is connected to the output jack, the BAT LED will light, and the System 600T MK II preamp/Eq functions are activated. (Please note that the digital tuner function can be activated without connecting a cable to the output jack). To prevent excessive battery consumption, unplug your cable from the output jack when the System 600T MK II is not in use. When the battery is wearing out, the LED will become dim, and the signal will become distorted. If the LED does not light, remove the chassis and replace the battery.

2) PIEZO: This control adjusts the level of the under-saddle bridge piezo pickup.

3) AUX: This control adjusts the level of the auxiliary input, either an Alvarez ASP50 MK II sound hole pickup or an Alvarez ACM50 condenser microphone.

4) LEVEL: This switch adjusts the input level of the AUX input. When using a magnetic sound hole pickup or condenser mic, this switch should be set in the -20dB position. When a dynamic microphone is used, this switch should be set in the 0dB position.

5) PHASE: This switch reverses the polarity of the PIEZO input relative to the AUX input. If the polarities of the different inputs are “out of phase”, a noticeable loss of low frequencies (bass) will occur. If there is a loss of fullness, or low end when two input signals are mixed, reverse the position of this switch (In/Out) to correct the polarity.

Note: If only one input is used, this switch will have no effect.

6) TREBLE: This slider provides +/- 15 dB of boost/cut at 10kHz. In its center position, there will be no effect.

7) BASS: This slider provides +/- 15dB of boost/cut at 100Hz. In its center position, there will be no effect.

8) MID: This slider works in conjunction with the MID FREQ control. It provides +/- 15 dB of boost/cut at the center frequency determined by the MID FREQ control.

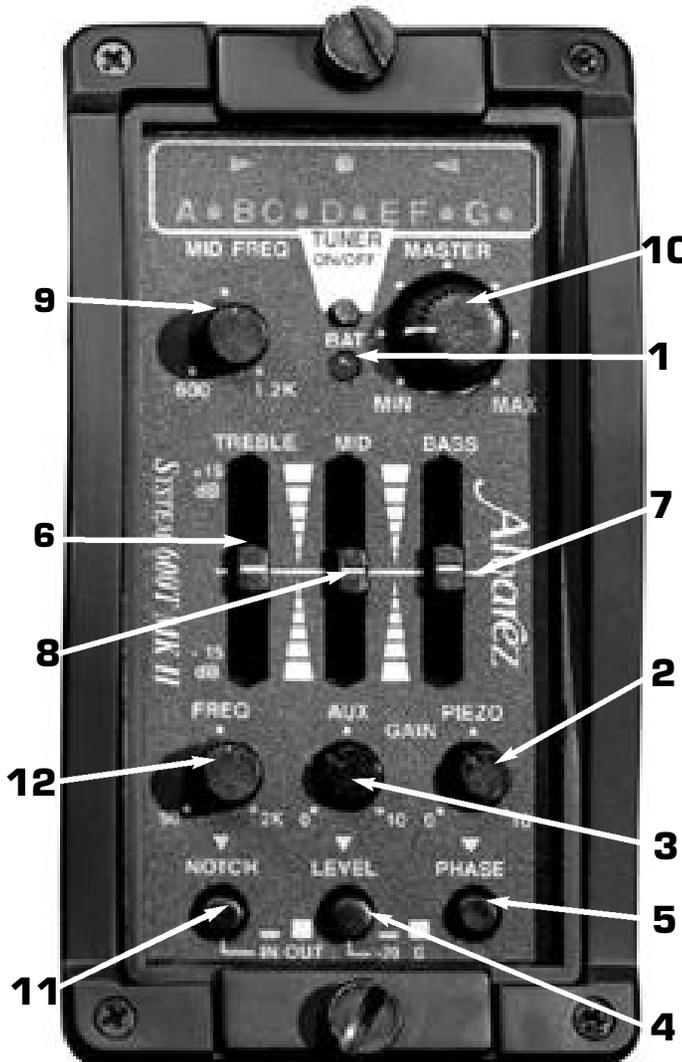
9) MID FREQ: This control adjusts the center frequency of the MID slider, variable from 600Hz to 1.2kHz. If the MID slider is set to its center position, no effect will be heard. Maximum effect of this control can be heard as the MID slider is set for boost or cut.

Note: The main Eq system (TREBLE/MID/MID FREQ/BASS) controls will only affect the piezo input signal. These controls have no effect on the AUX input signal.

10) MASTER: This control is the Master Volume, which adjusts the overall output of the System 600T MK II, including both the PIEZO and AUX inputs.

11) NOTCH: This switch engages a notch filter, which is used to control feedback in live performance applications. When the switch is in its IN (down) position a deep, narrow band of frequencies is cut from the signal, depending on the position of the FREQ control. This notch filter is located “post Eq” in the circuit and will affect the combined PIEZO and AUX input signals.

12) FREQ: This control adjusts the center frequency of the “anti-feedback notch”. With the NOTCH switch engaged, turn the MASTER control up until feedback is heard. Adjust the FREQ control until the feedback disappears.



The Alvarez System 600T MK II has been designed to accurately reproduce the natural sound of an acoustic guitar when used with a wide variety of sound reinforcement and recording equipment. Sound is very subjective. We urge you to experiment with the many control capabilities of the System 600T MK II in order to “dial in” the sound that is right for you.

DIGITAL TUNER



The System 600T MK II features a built-in chromatic digital tuner. The tuning function can be accessed at any time, whether the guitar is plugged in, or not. To engage the tuner, press the TUNER ON/OFF switch located between the MID FREQ and MASTER control knobs. A sequence of note indicator LED's will light, indicating that the tuner is functional. Plucking a string will result in a note indicator LED lighting to represent the nearest pitch. Above the note indicator LED's are a center (Green) and left and right (Red) LED's. When the note is flat relative to the indicated pitch, the left (Red) LED will blink. If the note is sharp, the right (Red) LED will blink. When the correct pitch is achieved, the center (Green) LED will light. Repeat this procedure for all strings. Pressing the TUNER ON/OFF switch will disengage the tuner function. To prevent unwanted battery consumption, an automatic "shut-off" feature will turn the tuner off after 3 minutes of use.

Note: When the guitar is connected to an amplifier, mixer, or PA system, engaging the tuner will mute the output for silent tuning during performance.

SPECIFICATIONS

Input Impedance:	2.2 M Ohm
Output Impedance:	1k Ohm
Frequency Response:	40Hz-15kHz, +/- 2 dB w/ Eq at center position
S/N Ratio:	Greater than -90 dB
Amplification:	
Piezo Input:	+8dB
Aux Input:	+20 dB (Level switch IN) +37 dB (Level switch OUT)
Distortion:	0.05%
Power Consumption:	2.2mA(Tuner OFF) 8.5mA- 12.5mA(Tuner ON)
Power Supply:	9V or Phantom Power via optional XLR switching jack
Controls:	Master Volume Piezo Gain Aux Gain Treble: +/- 15dB @ 10kHz Mid: +/- 15dB Mid Freq: 600Hz - 1.2kHz, Variable Bass: +/- 15dB @ 100Hz Notch Freq: 45 Hz - 2.2kHz, Variable (Q: 12.5 @ 1kHz, 10 @ 300Hz)
Internal Trim Pots:	High: +/- 5dB @ 10kHz Low: +/- 5dB @ 100Hz
Switches:	Tuner ON/OFF (Auto Power OFF in 3 minutes) Notch IN/OUT Aux Level IN/OUT Piezo Phase IN/OUT
Connections:	Piezo Input - 2.5mm Phone - Mono Aux Input - 3.5mm Phone - Stereo Output - 2.5mm Phone - Stereo Phantom Power - 3-pin connector for optional phantom power via switchable XLR connector
Dimensions:	106mm H x 58mm W
Weight:	170g w/ battery

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